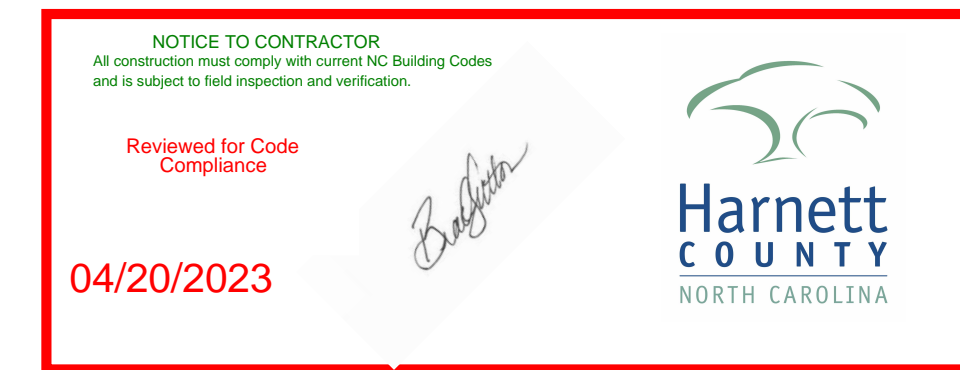
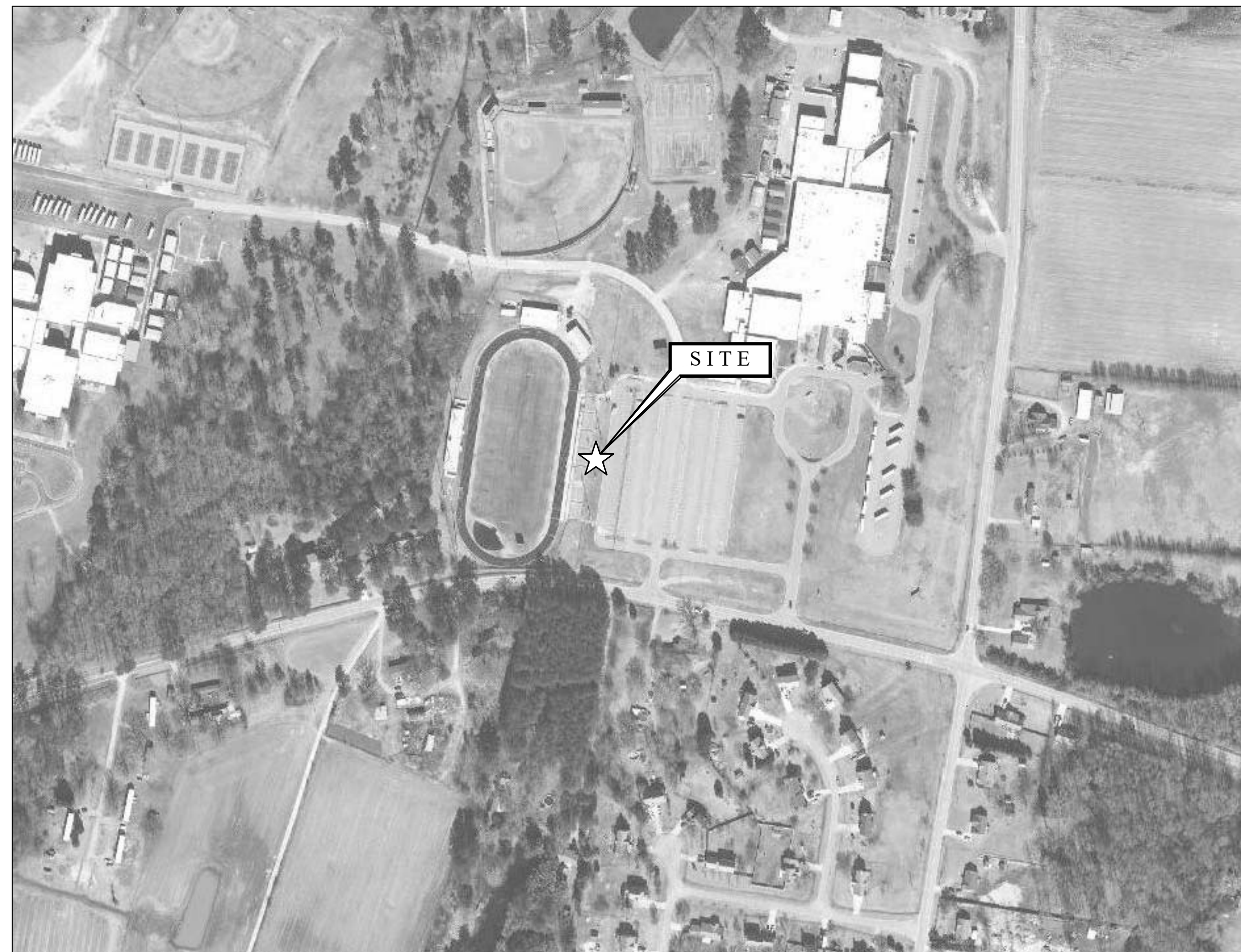
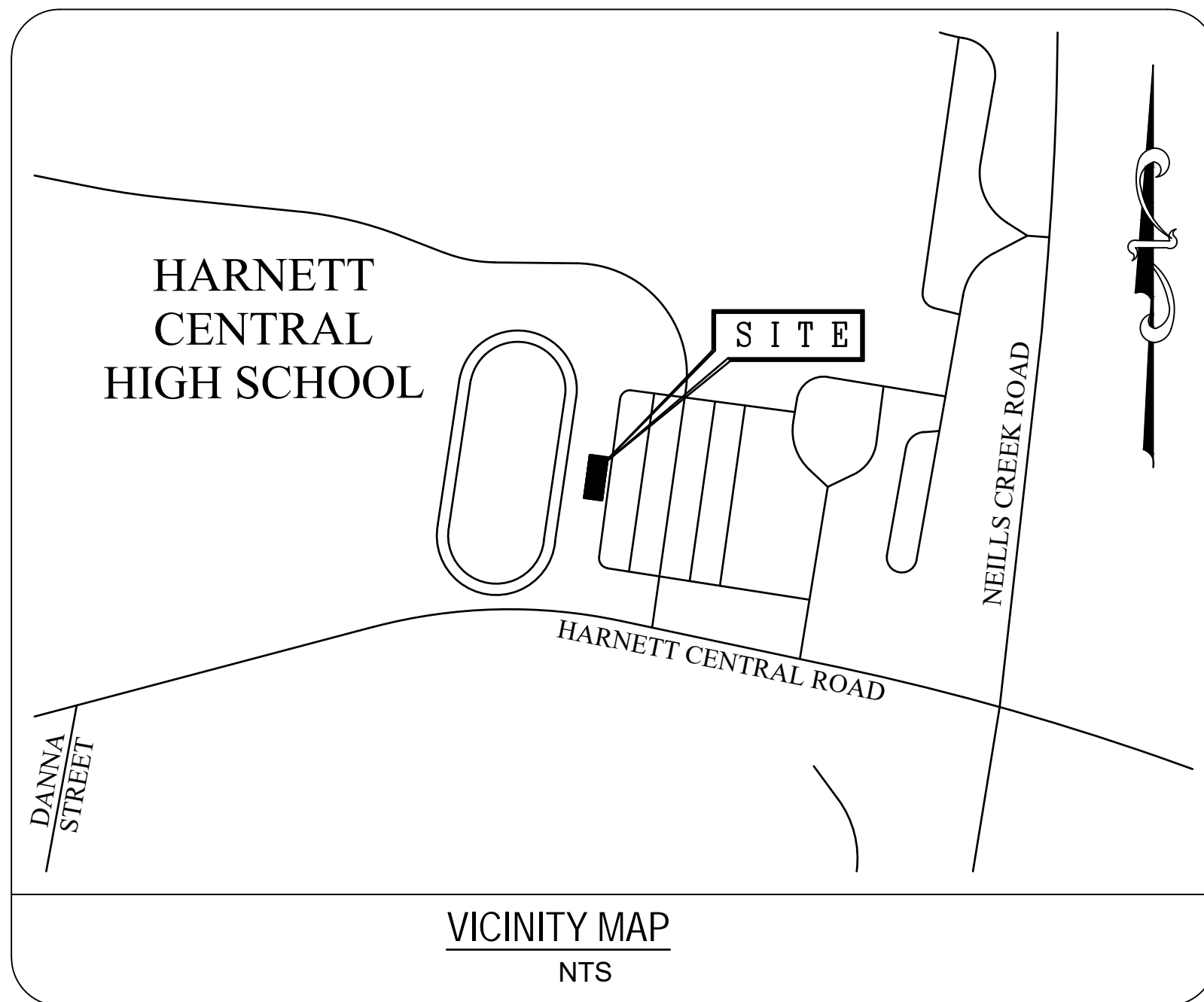
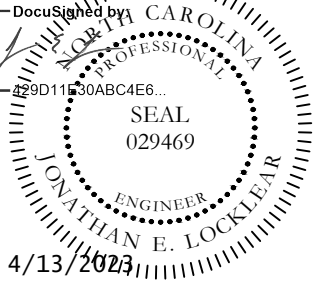
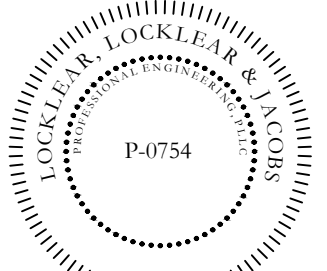


HARNETT CENTRAL PRESS BOX

2911 HARNETT CENTRAL RD, ANGIER, NC 27501



P.O. BOX 3119
PEMBROKE, NC 28372
TELEPHONE: (910) 774-9306
FAX: (866) 649-7235



DRAWING INDEX			
SHEET #	SHEET TITLE	REVISION NUMBER	REVISION DATE
G-001	COVER SHEET	--	--
G-002	APPENDIX B	1	4/13/2023
G-003	GENERAL NOTES AND ABBREVIATIONS	--	--
G-101	FLOOR PLANS	--	--
G-111	OVERALL ROOF PLAN	--	--
G-201	EXTERIOR ELEVATIONS	1	4/13/2023
G-301	BUILDING SECTIONS AND DETAILS	1	4/13/2023
G-401	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS	--	--
G-501	CASEWORK DETAILS	--	--
G-502	GENERAL DETAILS	1	4/13/2023
G-503	GENERAL DETAILS	--	--
G-601	ROOM FINISH SCHEDULE	--	--
S-001	STRUCTURAL NOTES AND ABBREVIATIONS	--	--
S-101	FOUNDATION PLAN	--	--
S-102	FRAMING PLAN	1	4/13/2023
S-501	STRUCTURAL DETAILS	--	--
S-502	STRUCTURAL DETAILS	1	4/13/2023
P-001	PLUMBING NOTES AND SCHEDULES	--	--
P-101	PLUMBING PLAN	--	--
P-301	PLUMBING DETAILS	--	--
M-001	MECHANICAL NOTES LEGEND AND ABBREVS	1	4/13/2023
M-101	MECHANICAL PLAN	1	4/13/2023
M-102	MECHANICAL CONDENSATE PLAN	--	--
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E-001	ELECTRICAL NOTES LEGENDS AND ABBREVS	--	--
E-101	ELECTRICAL POWER PLAN	--	--
E-201	ELECTRICAL LIGHTING PLAN	1	4/13/2023
E-301	ELECTRICAL DETAILS	1	4/13/2023

CLIENT

HARNETT COUNTY SCHOOL
1008 S 11th ST,
LILLINGTON, NC 27546
(910) 893-8151
CONTACT: STEVE MATHEWS



Know what's below.
Call before you dig.



PREPARED BY:

LOCKLEAR, LOCKLEAR & JACOBS
CIVIL | STRUCTURAL | MEP | ENVIRONMENTAL ENGINEERS
114 WEST 3RD. STREET - PEMBROKE, NORTH CAROLINA 28372
(910) 774-9306 WWW.LLANDJ.COM
License No. P-0754

OWNER & BUILDER'S NOTES:

- PLANS SHALL NOT BE USED FOR CONSTRUCTION UNTIL STAMPED AND SIGNED BY AN ENGINEER AND APPROVED BY THE LOCAL INSPECTION DEPARTMENT. THE CONTRACTOR IS EXPECTED TO FOLLOW THESE PLANS, APPLICABLE BUILDING CODES AND LOCAL ORDINANCES. CONTRACTOR SHALL VERIFY THAT SITE CONDITIONS ARE CONSISTENT WITH PLANS BEFORE STARTING WORK. WHILE PLANS ARE DRAWN TO SHOW THE PROPOSED WORK AS ACCURATELY AS POSSIBLE, SCHEMATIC DETAILS MAY BE USED IN SOME CASES FOR CLARITY. WORK NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED TO THE SAME QUALITY AS SIMILAR DETAILED WORK.
- WRITTEN DIMENSIONS AND SPECIFIC NOTES SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS AND GENERAL NOTES. THE ENGINEER SHALL BE CONSULTED FOR CLARIFICATION IF SITE CONDITIONS ARE ENCOUNTERED THAT ARE DIFFERENT THAN SHOWN, IF DISCREPANCIES ARE FOUND IN THE PLANS OR NOTES, OR IF A QUESTION ARISES OVER THE INTENT OF THE PLANS / NOTES.
- LL&J ASSUMES NO RESPONSIBILITY FOR SCHEDULING, FABRICATION, CONSTRUCTION TECHNIQUES OR MATERIALS, OR QUANTITIES USED IN THE WORK. LL&J ASSUMES NO RESPONSIBILITY FOR FIELD CHANGES, SITE VARIANCES OR DISCREPANCIES NOT BROUGHT TO ENGINEER'S ATTENTION FOR CLARIFICATION.

HARNETT CENTRAL PRESS BOX
HARNETT COUNTY SCHOOLS
2911 HARNETT CENTRAL RD, ANGIER, NC 27501

PROJECT INFORMATION:

DATE: 1/10/2023
DRAWN BY: RDH
CHECKED BY: JEL

SHEET TITLE

COVER SHEET

SHEET NUMBER

G-001

PROJECT# 21-11110

2018 APPENDIX B - BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: HARNETT CENTRAL PRESS BOX
Address: 2911 HARNETT CENTRAL RD ANGLIER, NC
Proposed Use: PRESS BOX
Owner/Authorized Agent: STEVE MATHEWS
City/County: HARNETT

LEAD DESIGN PROFESSIONAL: LOCKLEAR, LOCKLEAR & JACOBS, PLLC
DESIGNER: FIRM, NAME, LICENSE #, TELEPHONE #, E-Mail
Building: LL&J, PLLC, Robby Locklear, P.E., NC 028880, (910) 774-9306, robbylocklear@llandj.com

2018 EDITION OF NC CODE FOR: New Construction
EXISTING: Reconstruction, Alteration, Repair, Renovation
CONSTRUCTED: (Date), ORIGINAL USE(S): (Chapter 3)
RENOVATED: (Date), CURRENT USE(S): (Chapter 3), PROPOSED USE(S): (Chapter 3)

BASIC BUILDING DATA
Construction Type: I-A, II-A, III-A, IV, V-A, V-B
Sprinklers: No, Partial, Yes
Standpipes: No, Yes
Fire District: No, Yes
Building Height: 19'-4"
Gross Building Area: 546 sq. ft.
TOTAL BUILDING AREA: 546 sq. ft. TOTAL FIRE AREA: 0 sq. ft.

ALLOWABLE AREA
Occupancy: Assembly A-1, A-2, A-3, A-4, A-5, Business, Educational
Factory F-1 Moderate, F-2 Low
Hazardous H-1 Detonate, H-2 Deflagrate, H-3 Combust, H-4 Health, H-5 HPM
Institutional I-1, I-2, I-3, I-4, Mercantile
I-3 Use Condition 1, 2, 3, 4, 5
Storage S-1 Moderate, S-2 Low, High-piled, Utility and Miscellaneous
Parking Garage, Open, Enclosed, Repair Garage

Incidental Uses (Table 509):
Furnace room where any piece of equipment is over 400,000 BTU per hour input
Rooms with boilers where the largest piece of equipment is over 15 psi and 10 horsepower
Refrigerant machine room
Hydrogen cutoff rooms, not classified as Group H
Incinerator rooms
Paint shops, not classified as Group H, located in occupancies other than Group F
Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
Laundry rooms over 100 square feet
Group I-3 cells equipped with a padded surfaces
Group I-2 waste and linen collection rooms
Waste and linen collection rooms over 100 square feet
Stationary storage of battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium-ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
Rooms containing fire pumps
Group I-2 storage rooms over 100 square feet
Group I-2 commercial kitchens
Group I-2 laundries equal to or less than 100 square feet
Group I-2 rooms or spaces that contain fuel-fired heating equipment

Special Uses: 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427
Special Provisions: 509.2, 509.3, 509.4, 509.5, 509.6, 509.7, 509.8, 509.9
Mixed Occupancy: No, Yes Separation: 0 Hr. Exception: SEE BELOW
Incidental Use Separation (509.4)
This separation is not exempt as Non-Separated Use (see exceptions)
Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and the area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the building.

Mixed Occupancy: cont.
Separated Use: (508.4) - See below for calculations.
For each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
Actual Area: A + B + C + D = 0.00 <= 1.00
Allowable Area: A B C D

Separated Use Calculations
Actual Area: A + B + C + D = 0.00 <= 1.00
Allowable Area: A B C D

- 1. Frontage area increases from Section 506.3 area computed thus:
a. Perimeter which fronts a public way or open space having 20 feet minimum width = (F)
b. Total Building Perimeter = (F)
c. Ratio (F/P) = (F/P)
d. W = Minimum Width of public way = (W)
e. Percent of frontage increase I_s = 100(F/P-0.25)W/30 = (%)
2. The sprinkler increase per Section 506.2 is as follows:
a. Multi-story building I_s = 200%
b. Single story building I_s = 300%
3. Unlimited area applicable under conditions of Section 507:
4. Maximum Building Area = total number of stories in the building x E (506.2).
5. The maximum area of parking garages must comply with 406.3.4.

ALLOWABLE HEIGHT
Construction Type: V-B
Bldg. Height in Feet: 40
Bldg. Height in Stories: UL

FIRE PROTECTION REQUIREMENTS
BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATING, DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PEN., DESIGN # FOR RATED JOINTS
Structural Frames, including columns, girders, trusses: N/A, 0
Bearing Walls: None, 0
Exterior: South, None, 0; East, None, 0; West, None, 0; South, None, 0
Interior: None, 0
Nonbearing walls and partitions: Exterior: South, None, 0; East, None, 0; West, None, 0; South, None, 0
Interior Walls & Partitions: None, 0
Floor construction: None, 0
Roof construction: None, 0
Shafts - Exit: None, 0
Shafts - Other: None, 0
Corridor Separation: None, 0
Occupancy Separation: None, 0
Party/Fire Wall Sep.: None, 0
Smoke Barrier Sep.: None, 0
Tenant Separation: None, 0
Incidental Use Separation: None, 0

LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: No, Yes
Exit Signs: No, Yes
Fire Alarm: No, Yes
Smoke Detection Systems: No, Yes, Partial
Panic Hardware: No, Yes

SITE PLAN NOTE
NEITHER A SURVEY OR SITE PLAN WAS PROVIDED BY THE OWNER AT TIME OF COMPLETION OF THESE PLANS. OWNER MUST VERIFY INFORMATION ON THIS SHEET IS CORRECT. LL&J, PLLC HAS DONE IT BEST TO VERIFY AND COMPLETE THIS SHEET IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODES WITHOUT THE USE OF SAID INFORMATION.

LIFE SAFETY PLAN REQUIREMENTS
LIFE SAFETY PLAN SHEET #:
FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
ASSUMED AND REAL PROPERTY LINE LOCATIONS
EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
EXISTING STRUCTURES WITHIN 30' OF THE PROPOSED BUILDING
OCCUPANCY TYPES FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.1)
OCCUPANT LOADS FOR EACH AREA
EXIT ACCESS TRAVEL DISTANCES (1016)
COMMON PATH OF TRAVEL DISTANCE (1014.3 & 1028.8)
DEAD END LENGTHS (1018.4)
CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT CAN ACCOMMODATE
BASED ON EGRESS WIDTH (1005.1)
ACTUAL OCCUPANT LOAD FOR EACH DOOR
A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
LOCATION OF DOORS WITH PANIC HARDWARE (1008.1.10)
LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF DELAY (1008.1.9.7)
LOCATION OF DOORS WITH WITH ELECTROMAGNETIC EGRESS LOCKS (1008.1.9.8)
LOCATION OF DOORS EQUIPPED WITH HOLD-OPEN DEVICES
LOCATION OF EMERGENCY ESCAPE WINDOWS (1029)
THE SQUARE FOOTAGE OF EACH FIRE AREA (902)
THE SQUARE FOOTAGE OF EACH SMOKE COMPARTMENT (407.4)
NOTE ANY CODE EXCEPTIONS OR TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ABOVE ITEMS

ACCESSIBLE DWELLING UNITS (Section 1107)
TOTAL UNITS, ACCESSIBLE UNITS REQUIRED, ACCESSIBLE UNITS PROVIDED, TYPE A UNITS REQUIRED, TYPE A UNITS PROVIDED, TYPE B UNITS REQUIRED, TYPE B UNITS PROVIDED, TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING (SECTION 1106)
LOT OR PARKING AREA, TOTAL # OF PARKING SPACES, # OF ACCESSIBLE SPACES PROVIDED, REGULAR WITH 5' ACCESS AISLE, VAN SPACES, TOTAL # ACCESSIBLE PROVIDED

DESIGN LOADS:
Importance Factors: Live Loads: Roof: 20 psf, Mezzanine: 100 psf, Floor: 100 psf
Snow (s): 1.0
Seismic (te): 1.0
Wind Load: Basic Wind Speed: 120 mph (ASCE-7), Exposure Category: B, Wind Base Shears (for MWFRS): V_x = 3,500 lbs, V_y = 7,700 lbs

SEISMIC DESIGN CATEGORY: B
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5): I, II, III, IV
Spectral Response Acceleration S_s = 13.0 %g, S_1 = 6.4 %g
Site Classification (Table 1613.5.2): A, B, C, D, E, F
Data Source: Field Test, Presumptive, Historical Data
Basic structural system (check one): Bearing Wall, Dual w/Special Moment Frame, Building Frame, Dual w/Intermediate R/C or Special Steel, Moment Frame, Inverted Pendulum
Seismic base shear: V_x = 1,800 lbs, V_y = 2,900 lbs
Analysis Procedure: Simplified, Equivalent Lateral Force, Dynamic
Architectural, Mechanical, Components anchored? No, Yes

LATERAL DESIGN CONTROL: Earthquake, Wind
SOIL BEARING CAPACITIES: Field Test (provide copy of test report), Presumptive Bearing Capacity, Pile size, type, and capacity

SPECIAL INSPECTIONS REQUIRED: No, Yes: See below
Fabricators (1704.2)
Steel Construction (1704.3)
Construction (1704.4)
Masonry Construction (1704.5)
Wood Construction (1704.6)
Verification of Soils (1704.7)
Driven Deep Foundations (1704.8)
Cast-in Place Deep Foundations (1704.9)
Helical Pile Foundations (1704.10)
Vertical Masonry Foundation Elements (1704.11)
Sprayed Fire-resistant Materials (1704.12)
Mastic and Intumescent Fire-resistant Coatings (1704.13)
Exterior Insulation and Finish Systems - EIFS (1704.14)
Special Cases (1704.15)
Smoke Control (1704.16)
Wind Requirements (1706)
Seismic Resistance (1707)

PLUMBING FIXTURE REQUIREMENTS
USE, WATERCLOSETS, URINALS, LAVATORIES, SHOWERS / TUBS, DRINKING FOUNTAINS
REQUIRED: 0, 0, 0, 0, 0
PROVIDED: 1, 1, 0, 1, 0
EXISTING: 0, 0, 0, 0, 0

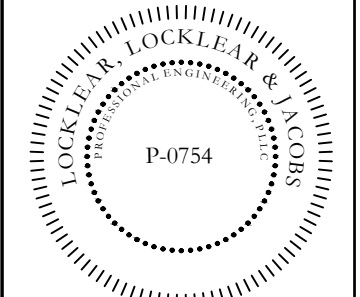
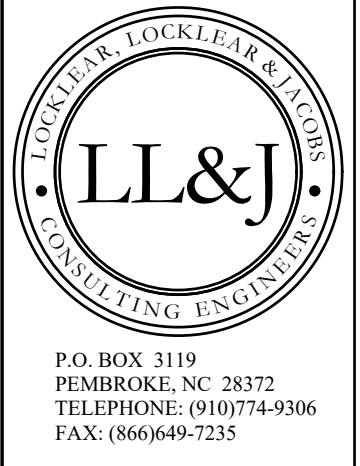
SPECIAL APPROVALS
(Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC ETC, DESCRIBE BELOW)

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Climate Zone: 4
Method of Compliance: Prescriptive (Energy Code), Performance (Energy Code)
Roof/Ceiling Assembly (each assembly): FILLED CAVITY FIBERGLASS INSULATION, U-Value of total assembly: 0.033, R-Value of insulation: R-42
Exterior Walls (each assembly): WOOD FRAMED WALL FIBERGLASS BLANKET, U-Value of total assembly: R-21, R-Value of insulation: 0.25 MAX
Openings (windows or doors with glazing): U-Value of assembly: SHGC coefficient: 0.25 MAX, projection factor: low e required, if applicable: Door R-Values: 1.45, 1.3 FOR ENTRANCE DOOR
Walls below grade (each assembly): Description of assembly: NA, U-Value of total assembly: R-Value of insulation:
Floors over unconditioned space (each assembly): Description of assembly: NA, U-Value of total assembly: R-Value of insulation:
Floors slab on grade: Description of assembly: SLAB ON GRADE, U-Value of total assembly: R-Value of insulation: NOT REQUIRED
Horizontal/Vertical requirement: Slab heated: NO

MECHANICAL SUMMARY
MECH. SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone: winter dry bulb: 27° F, summer dry bulb: 95° F
Interior design conditions: winter dry bulb: 70° F, summer dry bulb: 75° F, relative humidity: 50%
Building heating load: 15,000 BTU/HR
Building cooling load: 2.6 TON
Mechanical Spacing Conditioning System: Unitary, description of unit: HEATPUMP, heating efficiency: SEE EQUIPMENT SCHEDULES, cooling efficiency: SEE EQUIPMENT SCHEDULES, size category of unit: N/A
Boiler: Size category, if oversized, state reason: N/A
Chiller: Size category, if oversized, state reason: N/A
List equipment efficiencies: Presumptive Bearing Capacity: 2000 psf

ELECTRICAL SUMMARY
ELECTRICAL SYSTEM AND EQUIPMENT
Method Of Compliance: Energy Code: Prescriptive, Performance, ASHRAE 90.1: Prescriptive, Performance
Lighting schedule: (each fixture type) LED
Lamp type required in fixture: LED
Number of lamps in fixture: N/A
Ballast type used in the fixture: N/A
Number of ballasts in fixture: SEE LIGHTING SCHEDULE
Total wattage per fixture: 366 VS 537
Total interior wattage specified vs allowed: (whole building or space by space)
Total exterior wattage specified vs allowed: N/A
Additional Prescriptive Compliance: 506.2.1 More Efficient Mechanical Equipment, 506.2.2 Reduced Lighting Power Density, 506.2.3 Energy Recovery Ventilation System, 506.2.4 Higher Efficiency Service Water Heating, 506.2.5 On-Site Supply of Renewable Energy, 506.2.6 Automatic Daylighting Control Systems



4/13/2023
HARNETT CENTRAL PRESS BOX
HARNETT COUNTY SCHOOLS
2911 HARNETT CENTRAL RD
ANGLIER, NC 27501

PROJECT INFORMATION:
REVISIONS:
DATE: 1/10/2023
DRAWN BY: RDH
CHECKED BY: JEL
SHEET TITLE: APPENDIX B
SHEET NUMBER: G-002
PROJECT# 21-11110

GENERAL NOTES

GENERAL NOTES:

1. ALL WORK TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
2. NEW CONSTRUCTION, ACCESSORIES AND EQUIPMENT INSTALLATION SHALL BE PROVIDED IN COMPLIANCE WITH ADA ACCESSIBILITY REQUIREMENTS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL FROM THE SITE AND PROPER DISPOSAL OF ANY DEBRIS ACCUMULATED DURING CONSTRUCTION ON A DAILY BASIS.
4. ALL INTERIOR WALL AND CEILING FINISHES TO MEET FLAME SPREAD AND SMOKE DEVELOPMENT RATING IN ACCORDANCE TO ASTM E 84. ALL INTERIOR FLOOR FINISHES SHALL NOT BE LESS THAN CLASS II (0.22 WATTS/CM SQ) FOR MINIMUM CRITICAL RADIANT FLUX IN ACCORDANCE WITH NFPA 253.
5. DOORS SHALL OPERATE FREELY WITHOUT BINDING. ALL DOORS TO BE OFF FACE OF WALL UNLESS OTHERWISE NOTED. DOOR FRAMES SHALL BE SECURED RIGIDLY IN PLACE AND BRACED TO FLOOR AND STRUCTURE ABOVE TO PREVENT BREAK OUT OF PARTITIONS.
6. ALL MECHANICAL, ELECTRICAL AND NON-STRUCTURAL SYSTEMS, COMPONENTS, AND ELEMENTS PERMANENTLY ATTACHED TO STRUCTURES, INCLUDING SUPPORTING STRUCTURES AND ATTACHMENTS, AND NON-BUILDING STRUCTURES THAT ARE SUPPORTED BY OTHER STRUCTURES SHALL COMPLY WITH 2018 NORTH CAROLINA BUILDING CODE.
7. STORED MATERIALS SHALL BE KEPT DRY AND IN AN ORDERLY FASHION IN AN AREA DESIGNATED BY THE GENERAL CONTRACTOR.
8. TYPICAL DIMENSIONS ARE TO THE STRUCTURAL FACE OF PARTITION UNLESS OTHERWISE NOTED.
9. CONTRACTOR IS TO PROVIDE METAL/TREATED WOOD BLOCKING AT LOCATIONS RECEIVING CABINETRY OR EQUIPMENT.
10. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL NEW EQUIPMENT, DEVICES, LIGHTING, AND FOR ADDITIONAL NOTES.
11. A DUMPSTER MAY BE LOCATED AS DIRECT FOR THE DISPOSAL OF DEBRIS. PROTECT THE EXISTING BUILDING FROM DAMAGE (INTERIOR AND EXTERIOR), AND ALONG THE PATH OF TRAVEL TO THE DUMPSTER. DAMAGE AS A RESULT OF CONSTRUCTION USE SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR.

DETAILS:

THESE DRAWINGS AND SPECIFICATIONS REPRESENT THE GENERAL DIMENSIONS, AESTHETIC REQUIREMENTS, AND MATERIALS FOR THE WORK TO BE PERFORMED. IF ANY DETAIL SHOWN ON THESE DRAWINGS APPEARS INCONSISTENT WITH THIS INTENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING AND AWAIT INSTRUCTION FROM ENGINEER BEFORE PROCEEDING WITH WORK. DETAILS PROVIDED DO NOT REPRESENT ALL OF THE DETAILS REQUIRED TO PERFORM THE PROPOSED WORK. ADDITIONAL DETAILS MAY BE FURNISHED BY THE CONTRACTOR ON SUBMITTED SHOP DRAWINGS, OR SCALED DRAWINGS, FOR APPROVAL BY THE ENGINEER.

PATCHING:

CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCEPTABLE CLOSURE AND REPAIR OF ALL AREAS DISTURBED DURING CONSTRUCTION. REPAIR WORK SHALL UTILIZE LIKE MATERIALS WHERE POSSIBLE, OR MATERIALS COMPATIBLE TO EXISTING AND SHALL RESTORE DISTURBED SURFACE TO ORIGINAL CONDITION. UNLESS OTHERWISE NOTED, PAINT EXPOSED PIPING, CONDUITS, AND HANGER ASSEMBLIES TO MATCH EXISTING FEATURES.

CLEANUP & SITE MAINTENANCE:

CONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEANING AND MAINTENANCE OF ALL INVOLVED AREAS FROM CONSTRUCTION DEBRIS AND DUST. UPON OVERALL COMPLETION OF THE PROJECT, CONTRACTOR IS RESPONSIBLE FOR FINAL CLEANING/TREATMENT (INCLUDING WINDOW WASH) AS FOLLOWS: DUST INVOLVED SURFACES WITH A TREATED RAG OR CLOTH, USE METHODS, AND CHEMICALS AS RECOMMENDED FOR A SPECIFIC SURFACE BY THE RELATED MANUFACTURERS OF THE SURFACE MATERIAL.

MEANS AND VERIFICATIONS:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND MATERIALS SUPPLIED FOR THE CONSTRUCTION AND INSTALLATION. VERIFICATION OF DIMENSIONS AT THE SITE, AND THE VERIFICATION OF QUANTITIES. THE BUILDER SHALL VERIFY THAT SITE CONDITIONS ARE CONSISTENT WITH THESE PLANS BEFORE STARTING WORK. WORK NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED TO THE SAME QUALITY AS SIMILAR WORK THAT IS DETAILED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH INTERNATIONAL BUILDING CODES AND LOCAL CODES.

CONSTRUCTION ACTIVITY NOTES:

CONTRACTOR SHALL OBSERVE THE FOLLOWING INSTRUCTIONS FOR WORKING WITHIN THE BUILDING AREAS. THESE WILL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

1. ALL SHUTDOWNS WILL BE COORDINATED AND APPROVED THROUGH THE OWNER'S REPRESENTATIVE AND WILL REQUIRE ADVANCE NOTICE OF TWO DAYS FOR SHUTDOWNS THAT AFFECT BUILDING OPERATIONS END/OR SYSTEMS. LENGTH OF TIME MAY BE LONGER OR SHORTER FOR SOME SHUTDOWNS AT THE OWNER'S DISCRETION. SOME SHUTDOWNS MAY BE MORE DIFFICULT TO ARRANGE WHERE BUILDING OPERATIONS ARE ADVERSELY AFFECTED. ANY AND ALL SHUTDOWNS WILL BE INITIATED AND CONTROLLED BY BUILDING SYSTEM STAFF. THE CONTRACTOR MAY NOT SHUTDOWN ANY OPERATING SYSTEM. BUILDING FACILITIES MANAGEMENT WILL SHUTDOWN SYSTEMS SCHEDULED, AND AFTER CONTRACTOR HAS PERFORMED THE WORK BUILDING FACILITIES MANAGEMENT WILL COORDINATE AND OBSERVE RE-ACTIVATION.
2. AREAS ON THE BUILDING OUTSIDE THE MAIN PROJECT LIMITS, IN WHICH WORK MUST TAKE PLACE WILL BE CLEANED AND RETURNED TO NORMAL CONDITION AT THE END OF EACH DAY. CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE EACH DAY BEFORE LEAVING THE CONTRACT PROJECT LIMITS AND ENTERING THE SITE AND SHALL CHECK OUT EACH DAY WITH SAID REPRESENTATIVE REGARDING THE CLEANLINESS OF THE AREA IN WHICH WORK TOOK PLACE.
3. WORK IN OPERATIONAL ROADWAYS AND INTERSECTIONS AND/OR MERGING CONSTRUCTION TRAFFIC WITH THE PUBLIC, AND WHERE SCHEDULED WHETHER LOADING, OR UNLOADING CONSTRUCTION WILL BE IMPLEMENTED ONLY WITH THE USE OF A FLAG MAN DEDICATED FOR THE PURPOSE OF DIRECTING TRAFFIC AT THE FRONT, REAR, OR POINT OF SUCH OPERATION.
4. WORK TAKING PLACE IN A WALKWAY OR SIDEWALK ON A DAILY BASIS SHALL BE MARKED AT FRONT AND REAR WITH SAFETY CONES OR OTHER SUITABLE CAUTIONARY DEVICES.
5. CONTRACTOR, OR EMPLOYEE OF SAME, ON BUILDING GROUNDS OR ENTERING THE BUILDING TO PERFORM WORK SHALL HAVE WE NAME OF THE COMPANY IDENTIFIED ON THEIR DOTTING, HARD HAT, JACKET, OR OTHER ON THEIR PERSON AT ALL TIMES.
6. NO CONSTRUCTION PERSONNEL SHALL BE PERMITTED WITHIN THE BUILDING EXCEPT FOR THE EXPLICIT PURPOSE OF PERFORMING THEIR CONTRACTED WORK. SITE FACILITIES, INCLUDING BUT NOT LIMITED TO TOILETS, BREAK ROOMS, CAFETERIA, ETC., SHALL BE OFF LIMITS EXCEPT THOSE EXPRESSLY DESIGNATED FOR CONTRACTOR USE.
7. WORK ACTIVITY MUST NOT JEOPARDIZE BUILDING OPERATIONS. WHERE, IN THE OPINION OF THE ENGINEER OR OWNER, THE CONTRACTOR'S ACTIVITIES ARE SERIOUSLY HAMPERING BUILDING OPERATIONS, OR WHERE OPERATIONS ARE DEEMED AT RISK, THE CONTRACTOR WILL BE DIRECTED BY ENGINEER / OWNER TO CEASE SAID ACTIVITIES UNTIL OTHER MEANS AND METHODS CAN BE MUTUALLY AGREED UPON.
8. OWNER WILL NOT RECEIVE, UNLOAD, SIGN FOR, OR STORE ANY DELIVERIES MADE TO ANY CONTRACTOR. CONTRACTOR WILL RECEIVE, UNLOAD, SIGN FOR, AND STORE ALL DELIVERIES FOR THE WORK, AT THE JOB SITE STAGING OR LAY-DOWN AREA, AND BE RESPONSIBLE FOR SAME.
9. CONTRACTOR SHALL TURN OVER TO THE OWNER, DESIGNATED PLACE OF STORAGE, A QUANTITY OF SURPLUS MATERIALS, AS APPLICABLE, FOR THE WORK.
10. EXISTING STAIRS MAY BE USED FOR CONSTRUCTION ACTIVITIES (DEBRIS REMOVAL, ETC.). INTERIOR SURFACES OF THE STAIRS SHALL BE PROTECTED. DAMAGES AS A RESULT OF CONSTRUCTION USE SHALL BE REPAIRED AND/OR REPLACED BY THE CONTRACTOR.

DRAWING REVISIONS:

1. REVISIONS TO DRAWINGS SHALL BE SHOWN WITH THE REVISION DATE AND DESCRIPTION IN THE TITLE BLOCK. THE REVISION NUMBER AND A TRIANGLE WILL BE SHOWN AT THE LOCATION OF CHANGE ON THE REVISED DRAWING.
2. REVISION NUMBERS ARE IN ASCENDING ORDER UNIQUE TO EACH DRAWING. PREVIOUS DATES AND REVISION REMAIN ON THE DRAWINGS REVISED AS A RECORD OF ALL CHANGES TO DRAWINGS.

GENERAL ABBREVIATIONS

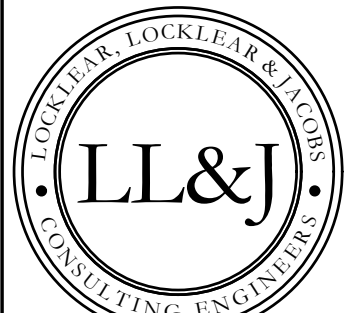
AB	ANCHOR BOLT	FDP	FLUID DISTRIBUTION POINT	PLYD	PLYWOOD
AC	ACRE	FE	FIRE EXTINGUISHER	PNL	PANEL
A/C	AIR CONDITIONED	FEQ	FIRE EXTINGUISHER CABINET	PP	POWER POLE
ACCH	AIR COOLED CHILLER	FES	FLARED END SECTION	PRESS	PRESSURE
ACM	ASBESTOS CONTAINING MATERIAL	FFE	FINISH FLOOR ELEVATION	PRZ	PRESSURE REDUCING VALVE
ACP	AIR COMPRESSOR	FH	FIRE HYDRANT	PSF	POUNDS / SQUARE FOOT
ACT	ACOUSTICAL CEILING TILE	FIN	FINISH	PSI	POUNDS / SQUARE INCH
AD	AREA DRAIN/ACCESS DOOR	FLR	FLOOR	PSIG	POUNDS / SQUARE INCH GAGE
AEL	AIR ELMINATOR	FM	FLOW METER	PXD	PAPER TOWEL DISPENSER
AFF	ABOVE FINISH FLOOR	FMS	FLOW MEASURING STATION	PUT	PUMP/HEAT EXCHANGER
AHU	AIR HANDLING UNIT	FND	FOUNDATION	QTR	QUARTER
ALT	ALTERNATE	FR	FIRE RATED	QUAN	QUANTITY
ALUM	ALUMINUM	FRM	FRAME	OVFL	OVERFLOW
AP	ACCESS PANEL	FS	FLOOR SINK	R/W	RIGHT OF WAY
APPROX	APPROXIMATELY	FT	FOOT / FEET	R	RISER
ASD	ADJUSTABLE SPEED DRIVES	FTG	FOOTING	RA	RETURN AIR
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS	GA	GAGE	RAD	RADIUS
		GAL	GALLON	RCR	REINFORCED CONCRETE PIPE
		GALV	GALVANIZED	RD	RELIEF DAMPER
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	GI	GRATE INLET	REF	REFRIGERANT
ASPE	AMERICAN SOCIETY OF ENGINEERS	GL	GLASS	RFG	RETURN FILTER GRILLE
PLUMBING	AMERICAN SOCIETY OF ENGINEERS	GND	GROUND	RND	ROUND
		GOV/T	GOVERNMENT	RDP	RESIDENTIAL DRAINAGE PLAN
		GPH	GALLONS PER HOUR	RECD	RECESSED
ASR	AUTOMATIC SPRINKLER RISER	GPM	GALLONS PER MINUTE	RECIRC	RECIRCULATING
		GW/B	GYP/SUM WALL BOARD	RECP	RECEPTACLE
		GYP	GYP/SUM	REG	REGISTER
BAL	BALANCE	H	HIGH	REIN	REINFORCING
BC	BACK OF CURB	HB	HOSE BIBB	REQD.	REQUIRED
BD	BOARD	HC	HOLLOW CORE / HEATING COIL	RET	RETURN
BDD	BACK DRAFT DAMPER	HDPE	HIGH DENSITY POLYETHYLENE	RF	RETURN FAN
BF	BOOSTER FAN	PIPE		RGH	RELIEF GRAVITY HOOD
BFP	REDUCED PRESSURE PREVENTER	HDW	HARDWARE	RH	RELIEF HOOD
BACKFLOW		HM	HOLLOW METAL	RHC	REHEAT COIL
BHP	BREAK HORSEPOWER	HP	HORSE POWER	RM	ROOM
BLDG	BUILDING	HR	HOUR	RO	ROUGH OPENING
BOT	BOTTOM	HT	HEIGHT	RPM	REVOLUTIONS / MINUTE
BSP	BLACK STEEL PIPE	HTG	HEATING	RT	RETURN AIR SENSOR
		HVAC	HEATING, VENTILATION & AIR CONDITIONING	RTG	RETURN GRILLE
CB	CATCH BASIN	HW	HEADWALL	S	SUPPLY
CAB	CABINET	HVU	HEATING & VENTILATION UNIT	SA	SUPPLY AIR / SOUND ATTENUATOR
CAP	CAPACITY	HYD	HYDRANT	SCH	SCHEDULE
CC	COOLING COIL	HORIZ	HORIZONTAL	SECT	SECTION
CEM	CEMENT	ID	INSIDE DIAMETER	SEF	SMOKE EXHAUST FAN
CER	CERAMIC	IH	INFRA-RED HEATER	SERV	SERVICE
CF	CUBIC FEET	IL	INTAKE LOUVER	SES	SAFETY END SECTION
CFM	CUBIC FEET/MINUTE	IN	INCHES	SEP	SEPARATOR
CFP	CHEMICAL FEED PUMP	INSUL	INSULATION	SF	SUPPLY FAN
CH	CHILLER	INT	INTERIOR	SH	SUPPLY HOOD
CHP	CHILLED WATER PUMP	INV	INVERT	SHT	SHEET
CIRC	CIRCULATING	IPF	IRON PIN FOUND	SIH	SUPPLY INTAKE HOOD
CJ	CONTROL JOINT	IPS	IRON PIN SET	SJ	SLIP JOINT
CKD	CHECKERED	JB	JUNCTION BOX	SPECS	SPECIFICATIONS
CKT	CIRCUIT LINE	JT	JOINT	SQ	SQUARE
CLG	CEILING	KVA	KILOVOLT AMPERE	SQFT	SQUARE FEET
CMIU	CONCRETE MASONRY UNIT	KW	KILOWATT	STL	STEEL
CMP	CORRUGATED METAL PIPE	LB	POUND	SS	SANITARY SEWER
CO	CLEAN OUT	LG	LONG	SSE	SANITARY SEWER EASEMENT
COL	COLUMN	LP	LIGHT POLE	STOR	STORAGE
CONC	CONCRETE	LTV	LIGHTING	STRUC	STRUCTURAL
COND	CONDENSATE	LAV	LAVATORY	SUSP	SUSPENDED
CONN	CONNECTION	M	MOTOR	SW	SWITCH
CONN	CHANNEL PROTECTION	MAINT	MAINTENANCE	SWCB	SINGLE WING CATCH BASIN
CP	/CONDENSATE PUMP	MAU	MAKE UP AIR UNIT	STD	STANDARD
CONST	CONSTRUCTION	MAX	MAXIMUM	T&G	TONGUE & GROOVE
CONT	CONTINUOUS	MDP	MAIN DISTRIBUTION PANEL	TOIL	TOILET
CONV	CONVERTER	MECH	MECHANICAL	TEL	TELEPHONE
CRK	CREEK	MH	MANHOLE	TEMP	TEMPERATURE
CT	CERAMIC TILE	MET	METAL	THK	THICKNESS
CTC	CENTER TO CENTER	MIN	MINIMUM	THD	THRESHOLD
CWP	CONDENSER WATER PUMP	MISC	MISCELLANEOUS	TK	TANK
		MO	MASONRY OPENING	TOS	TOP OF STEEL
DE	DRAINAGE EASEMENT	MTD	MOUNTED	TR	THREAD
DET	DETAIL	MTG	MOUNTING	TRF	TRANSFER AIR FAN
DHC	DUCT RE-HEAT COIL	MV	MECHANICAL VENTILATION	TRP	TRANSFER PUMP
DI	DROP INLET	NA	NOT APPLICABLE	TTD	TOILET TISSUE DISPENSER
DIA	DIAMETER	NIT	NOT IN CONTRACT	TYP	TYPICAL
DIFF	DIFFUSER	NO. #	NUMBER	UH	UNIT HEATER
DIM	DIMENSION	NC	NORMALLY CLOSED	UON	UNLESS OTHERWISE NOTED
DISC	DISCONNECT	NG	NATURAL GAS	UNO	UNLESS NOTED OTHERWISE
DN	DOWN	NIC	NOT IN CONTRACT	V	VOLT
DR	DOOR	NOM	NOMINAL	VAV	VARIABLE AIR VOLUME
DR	DOWNSPOUT	NPW	NON POTABLE WATER	VCT	VINYL COMPOSITION TILE
DWCB	DOUBLE WING CATCH BASIN	NTS	NOT TO SCALE	VFD	VARIABLE FREQUENCY DRIVE
DWG(S)	DRAWING(S)	OA	OUTSIDE AIR	XENT	VENTILATION
DSB	DOUBLE STRENGTH "B" GLASS	OC	ON CENTER	VERT	VERTICAL
E/A	EXHAUST AIR	OCS	OUTLET CONTROL STRUCTURE	VTR	VENT THRU ROOF
EA	EACH	OD	OUTSIDE DIAMETER	W	WATT
EDH	ELECTRIC DUCT HEATER	OH	OVERHEAD	W/	WITH
EF	EXHAUST FAN	OL	OVERLOAD	WC	WATER CLOSET
EIP	EXISTING IRON PIPE	OPNG	OPENING	WD	WOOD
ELEV	ELEVATION	OPP	OPPOSITE	WG	WATER GAGE
ELEC	ELECTRIC	OSD	OPEN SIGHT DRAIN	WM	WATER METER
EP	EDGE OF PAVEMENT	P	PUMP	WP	WEATHERPROOF
EQUIP	EQUIPMENT	PARTN	PARTITION	WPD	WATER PRESSURE DROP
EWC	ELECTRIC WATER COOLER	PD	PRESSURE DROP	WSA	WATER SURFACE AREA
EJ	EXPANSION JOINT	PER	PERIMETER	WTR	WATER
EX	EXISTING	PFR	PRE-FILTER	WTS	WATER TEMPERATURE SENSOR
EXH	EXHAUST	PF	POST-FILTER	WV	WATER VALVE
EXT	EXTERIOR	PV	POST INDICATOR VALVE	WWF	WELDED WIRE FABRIC
		PL	PLATE	WH	WATER HEATER
F	FILTER / FAHRENHEIT	PLBG	PLUMBING	YCO	YARD CLEANOUT
FA	FIRE ALARM			YH	YARD HYDRANT
FCO	FLOOR CLEANOUT				
FCU	FAN COIL UNIT				
FCW	FILTERED COLD WATER				
FD	FLOOR DRAIN				
FDC	FIRE DEPARTMENT CONNECTION				

SYMBOL LEGEND

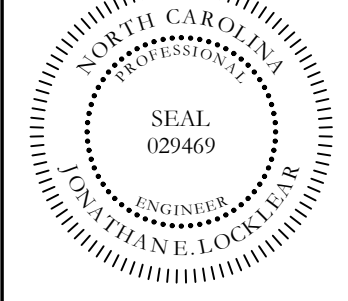
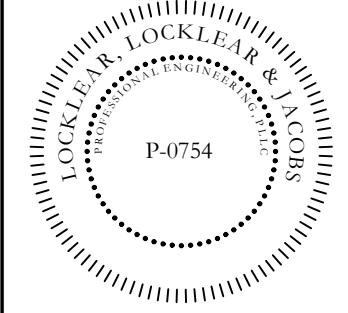
SYMBOL	DESCRIPTION
	DETAIL INDICATOR
	SECTION SYMBOL
	ELEVATION SYMBOL
	STRUCTURAL GRID
	ELEVATION TAG
	AREA OF REVISION AND REVISION NUMBER
	KEY NOTE

TAG LEGEND

SYMBOL	DESCRIPTION
	ROOM TAG AND ROOM NUMBER
	WINDOW TAG
	DOOR TAG
	DOOR ELECTRIC STRIKE



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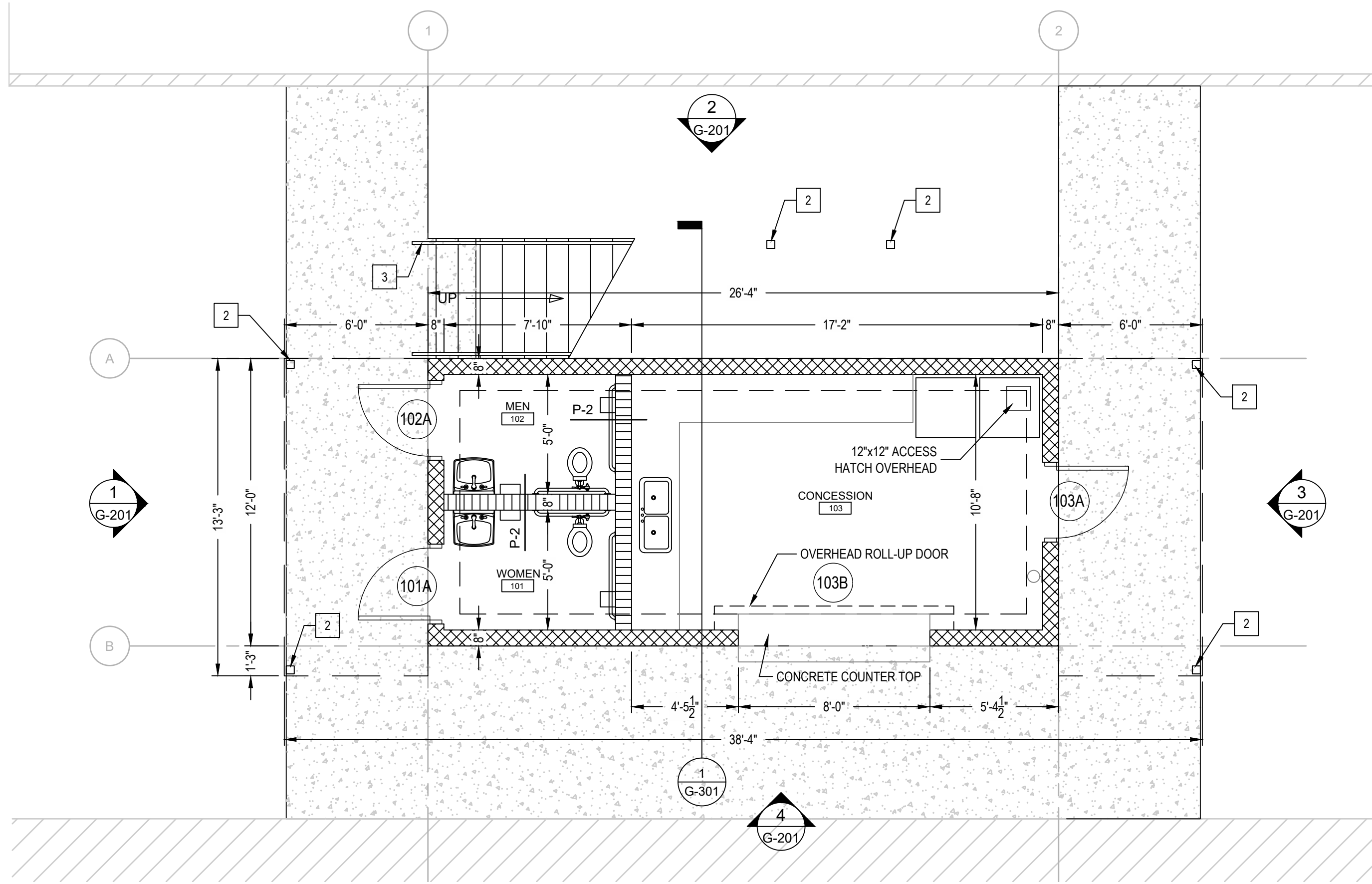


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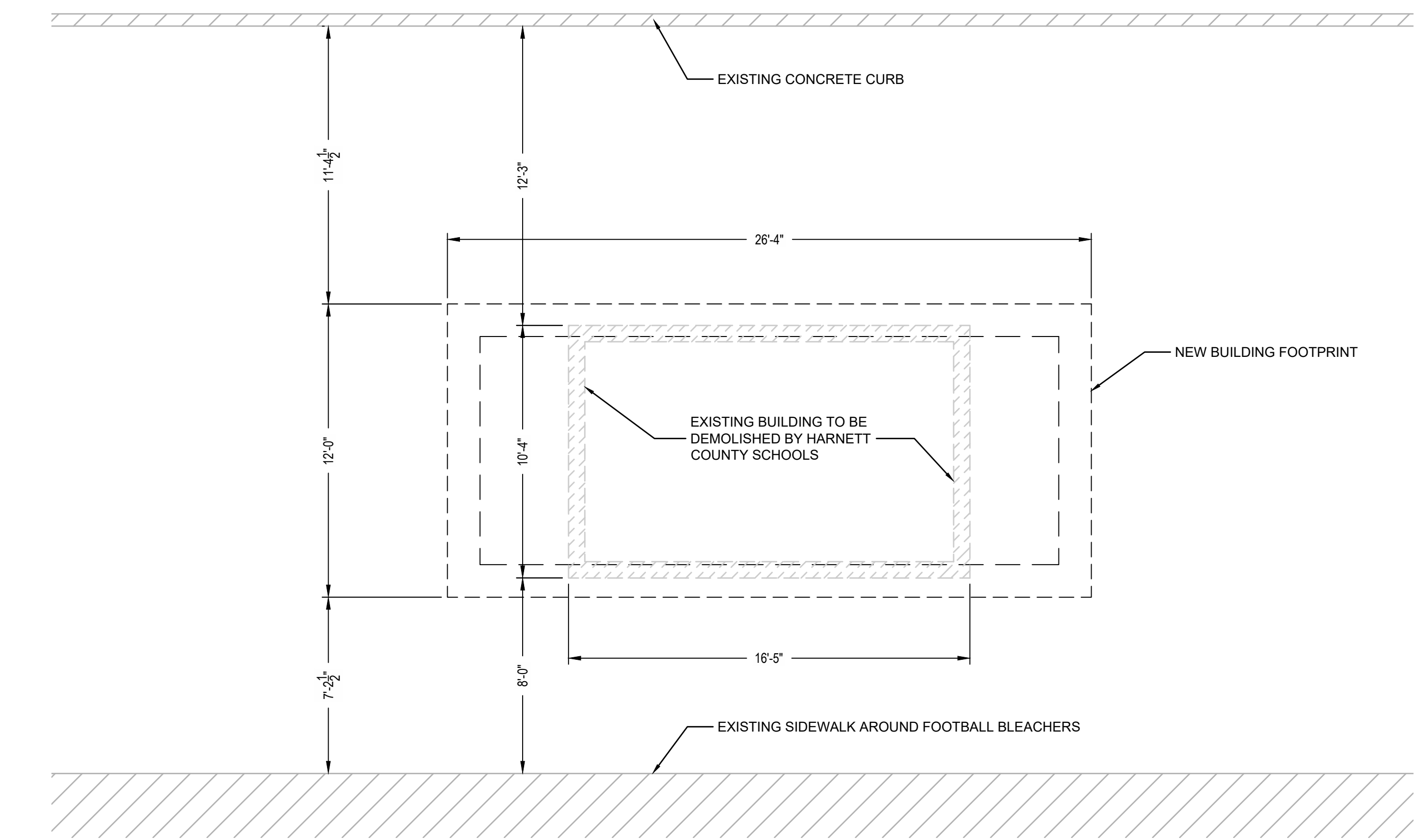
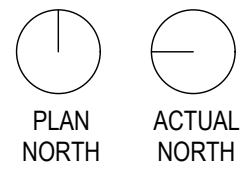
PROJECT INFORMATION

REV#	DATE	DESCRIPTION
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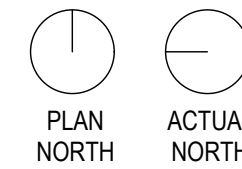
DATE: 12/2/2022
DRAWN BY:
CHECKED BY: RL
SHEET TITLE:
GENERAL NOTES AND ABBREVIATIONS
SHEET NUMBER:
G-003
PROJECT#: 21-1110



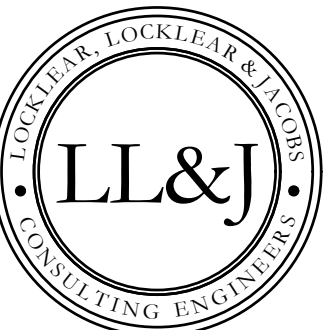
1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



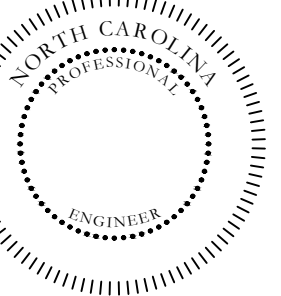
2 EXISTING SITE CONDITIONS
SCALE: 1/4" = 1'-0"



DEMOLITION NOTE
1. EXISTING BLDG AND SUPPORT FOOTING TO BE COMPLETELY REMOVED BEFORE CONTRACTOR TAKES CONTROL OF SITE.
2. HCS WILL ROUGH GRADE SITE BACK TO SURROUNDING ELEVATION AND CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND COMPACTION OF ALL SOILS TO REQUIRED STANDARDS.



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PROJECT INFORMATION

REVISIONS - DESCRIPTION

NO.	DATE	DESCRIPTION
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DATE: 12/2/2022

DRAWN BY: RDH

CHECKED BY: JEL

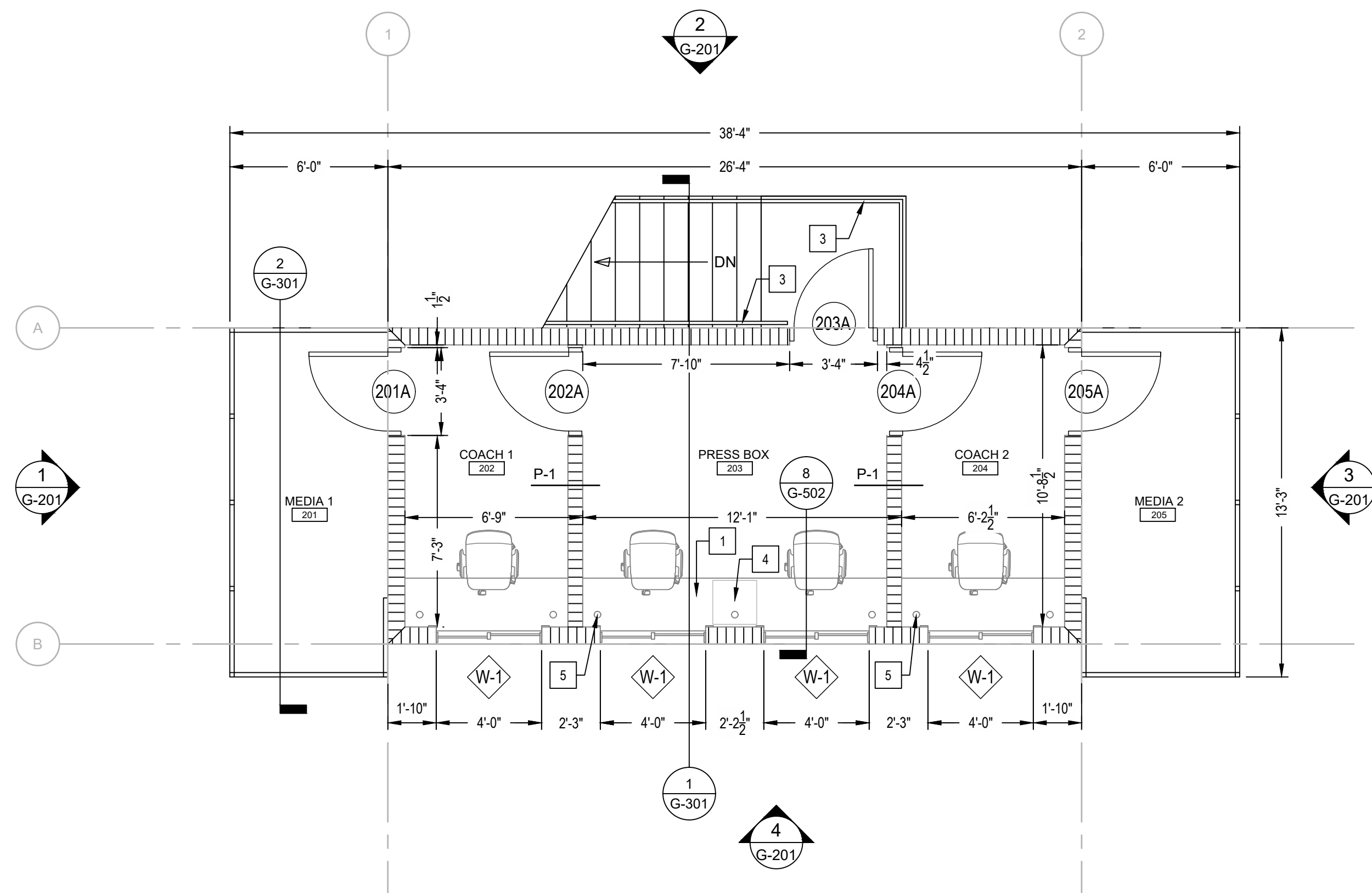
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FLOOR PLANS

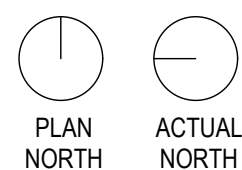
SHEET NUMBER

G-101

PROJECT# 21-1110



3 SECOND FLOOR PLAN
SCALE: 1/4" = 1'-0"



GENERAL NOTES

- ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO SIMILAR CONDITIONS ELSEWHERE.
- DIMENSIONS ARE TO FACE OF MASONRY OR FACE OF STUD WALLS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND/OR OWNER'S REPRESENTATIVE IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
- PRESS BOX SHALL BE BUILT ON A NEW 12'-8" X 27'-0" X 4" CONCRETE TURN DOWN SLAB. CONTRACTOR TO SEAL NEW SLAB.
- CMU WALL FOOTER SHALL HAVE A 16" WIDE BY 18" DEEP FOOTER WITH (2) #5 CONTINUOUS REBARS.
- THERE WILL BE (4) 4'X4' SLIDER WINDOWS ON THE SECOND FLOOR OVERLOOKING FOOTBALL FIELD.
- CONTRACTOR TO SUPPLY POWDER COATED STEEL STEPS TO TOP FLOOR.
- THE FIRST FLOOR WALLS TO BE 8" CMU WITH VERTICAL REBAR (SPACED AT 54" OC MAX AND CELLS CONTAINING REBAR SHALL BE COMPLETELY GROUT FILLED. CONTRACTOR SHALL SEAL ALL PERIMETER CMU BLOCK WALLS ON INTERIOR AND EXTERIOR FACE OF WALLS.
- PAINT COLOR SELECTIONS SHALL BE PER HARNETT CENTRAL HIGH SCHOOL COLORS AS DETERMINED BY OWNER.
- SECOND FLOOR JOISTS SHALL BE 2x8 INSTALLED AT 16" OC.
- THE ROOF FOR THE SECOND FLOOR WILL BE 2x12 RAFTERS @ 16" OC AND 26 GAUGE MASTER RIB (OR APPROVED EQUAL BY TUFF-RIB/CLASSIC-RIB).
- THE ROOF SLOPE SHALL BE 1" PER FOOT.
- USE 5/8" FINISHED GYPSUM ON SECOND FLOOR WALLS AND 1/2" FINISHED GYPSUM ON FIRST AND SECOND FLOOR CEILING.
- ALL CMU EXTERIOR WALLS SHALL BE FILLED WITH FOAM INSULATION THAT PROVIDES A MINIMUM R-VALUE OF 4.9 PER INCH.
- ALL 2ND FLOOR EXTERIOR 2X6 WALL SHALL HAVE A R-15 BATT INSULATION.
- THE 2ND FLOOR JOIST SYSTEM SHALL HAVE A MINIMUM OF R-19 BATT INSULATION.
- THE CEILING JOIST SHALL HAVE A MINIMUM OF R-38 FACED INSULATION.
- REFER TO SHEET G-601 FOR FINAL ROOM FINISHES.
- HCS IS TO DEMOLISH THE EXISTING STRUCTURE ENTIRELY AND SHALL TERMINATE EXISTING UTILITIES WITHIN 3-FT OUTSIDE OF PROPOSED BUILDING FOOTPRINT. CONTRACTOR SHALL VERIFY LOCATIONS OF ALL REQUIRED UTILITIES BEFORE SLAB ROUGH IN AND INSTALLATION.
- CONTRACTOR IS TO COORDINATE ALL DATA AND SECURITY REQUIREMENTS WITH HCS.
- FRAMING FOR 12'X12' ACCESS HATCH IN FIRST FLOOR CONCESSION CEILING TO BE FIELD LOCATED AND FRAMED BY THE CONTRACTOR. REFERENCE MECHANICAL PLANS FOR

BID OPTIONS

- PA SYSTEM IN PRESS BOX 203 FLOOR MOUNTED UNDER COUNTERTOP.

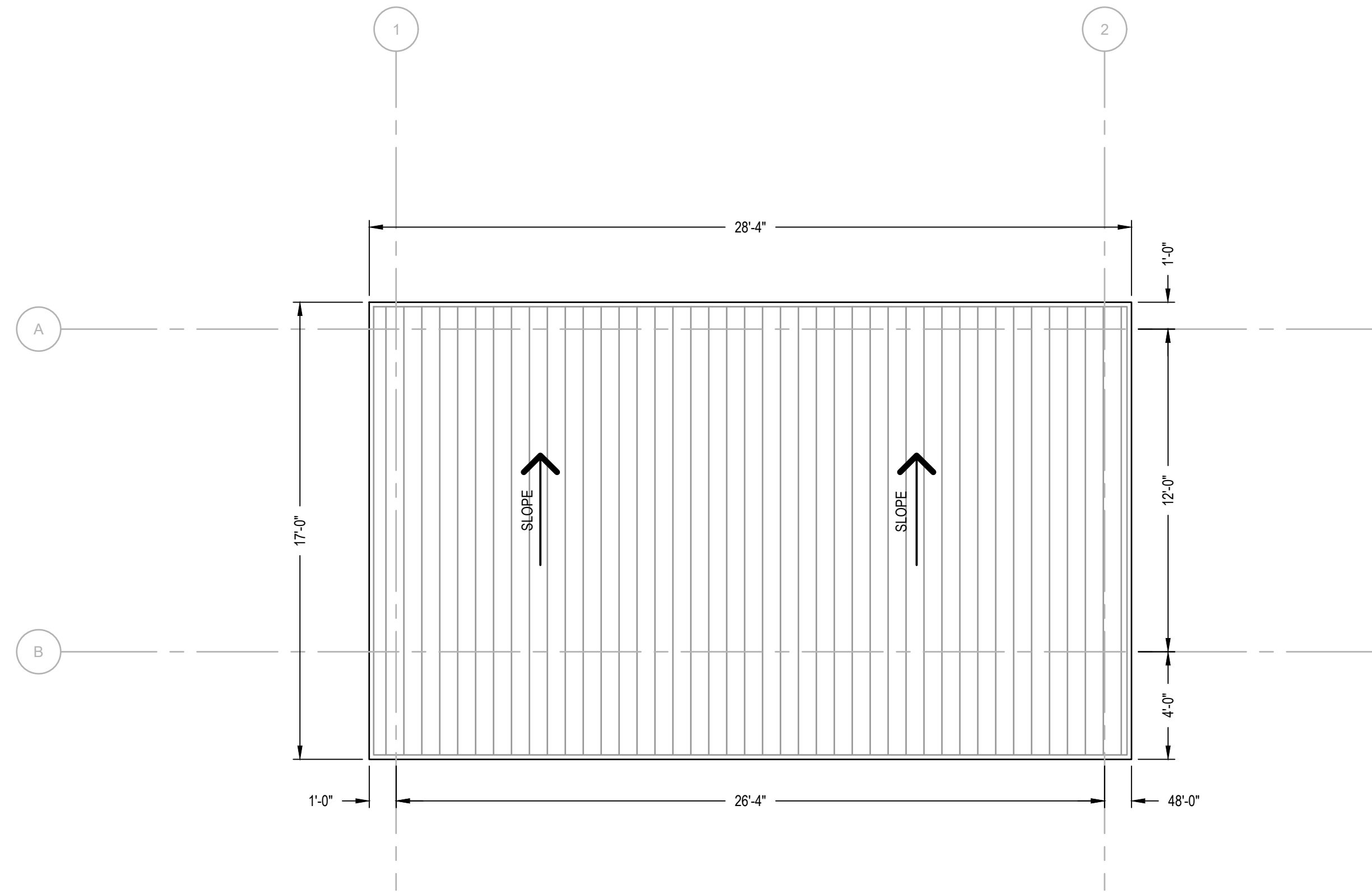
KEY NOTES

- 24" CONTINUOUS COUNTER TOP. SEE 8/G-502 FOR DETAILS.
- 4x4 STEEL POST FOR STAIR SUPPORT
- HANDRAILS. SEE 9/G-502 FOR DETAILS.
- PA SYSTEM/SERVER RACK UNDER THE COUNTERTOP
- 3" DIA. GROMMET TYP.

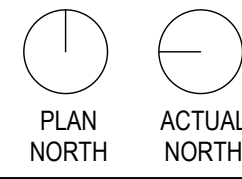
LEGEND

- NEW 8" CMU WALL UNLESS OTHERWISE NOTED
- NEW 6" WOOD STUD WALL UNLESS OTHERWISE NOTED
- DOOR TAG. REFER TO SHEET G-601 FOR DOOR SCHEDULE
- WINDOW TAG. REFER TO SHEET G-601 FOR WINDOW SCHEDULE
- PARTITION TAG. SEE G-502 FOR PARTITION DETAILS.
- KEYED NOTES

1/4" = 1'-0"



1 OVERALL ROOF PLAN
SCALE: 1/4" = 1'-0"



GENERAL NOTES

- CONSTRUCTION NOTES:**
- REFER TO SHEET G-101 FOR GENERAL NOTES.
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL REQUIRED BLOCKING WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - TRUSS TO LOAD BEARING WALL CONNECTION SHALL BE REVIEWED AND APPROVED BY ENGINEER.
- ROOF FRAMING NOTES:**
- ALL CONNECTIONS OF RAFTERS, JACK OR HIP TRUSSES TO MAIN GIRDER TO BE PROVIDED BY TRUSS MANUFACTURER.
 - ALL ROOF TRUSSES INSTALLED @ 16" O.C.
 - ROOF SHALL HAVE A PITCH OF 1:12 UNLESS NOTED OTHERWISE.
 - PROVIDE 1" MIN. AIR GAP AT EAVES WITH INSULATION Baffles TYPICAL AT ALL TRUSS BAYS.
 - THE OWNER/BUILDER SHALL NOT USE MATERIALS UNLESS THEY MEET CURRENT BUILDING CODE, AND ARE APPROVED FOR THAT SPECIFIC USE BY THE BUILDING OFFICIAL.
 - CONTRACTOR SHALL INSTALL RAFTER SUPPORT BRACING AS REQUIRED.

LEGEND

- 22 GAUGE STANDING SEAM METAL ROOF w/ TITANIUM SYNTHETIC ROOFING UNDERLAYMENT & 1/8" OSB (METAL COLOR TO BE SELECTED BY OWNER).
- ROOF SLOPE @ 1:12



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P-0754

SEAL
029469
ENGINEER
TITANIUM E. LOCKLEAR

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PROJECT INFORMATION

REV#	DATE	DESCRIPTION
1		
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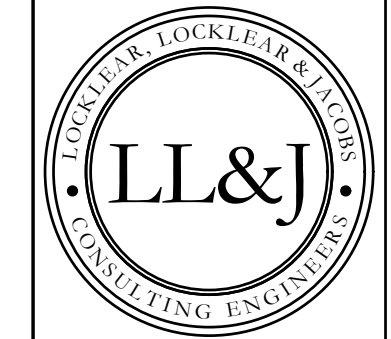
DATE: 12/2/2022
DRAWN BY: RDH
CHECKED BY: RL

SHEET TITLE
OVERALL ROOF PLAN

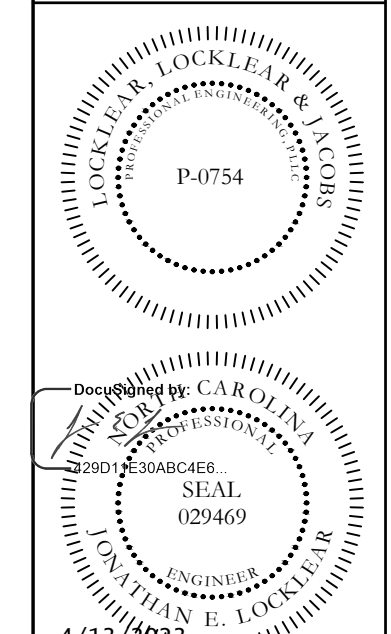
SHEET NUMBER
G-111

PROJECT# 21-11110

Printed: Thu 13-Apr-2023 01:18PM



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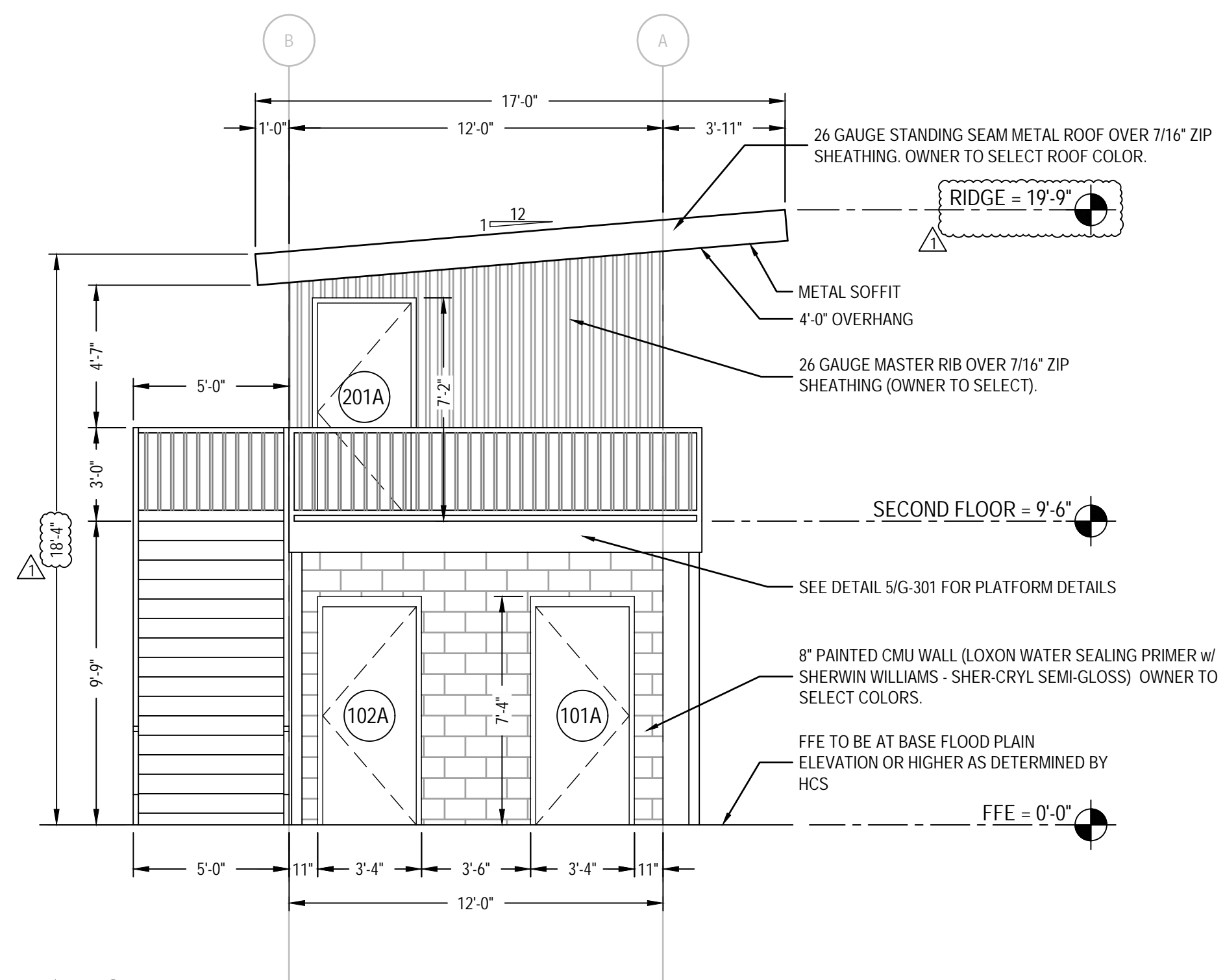
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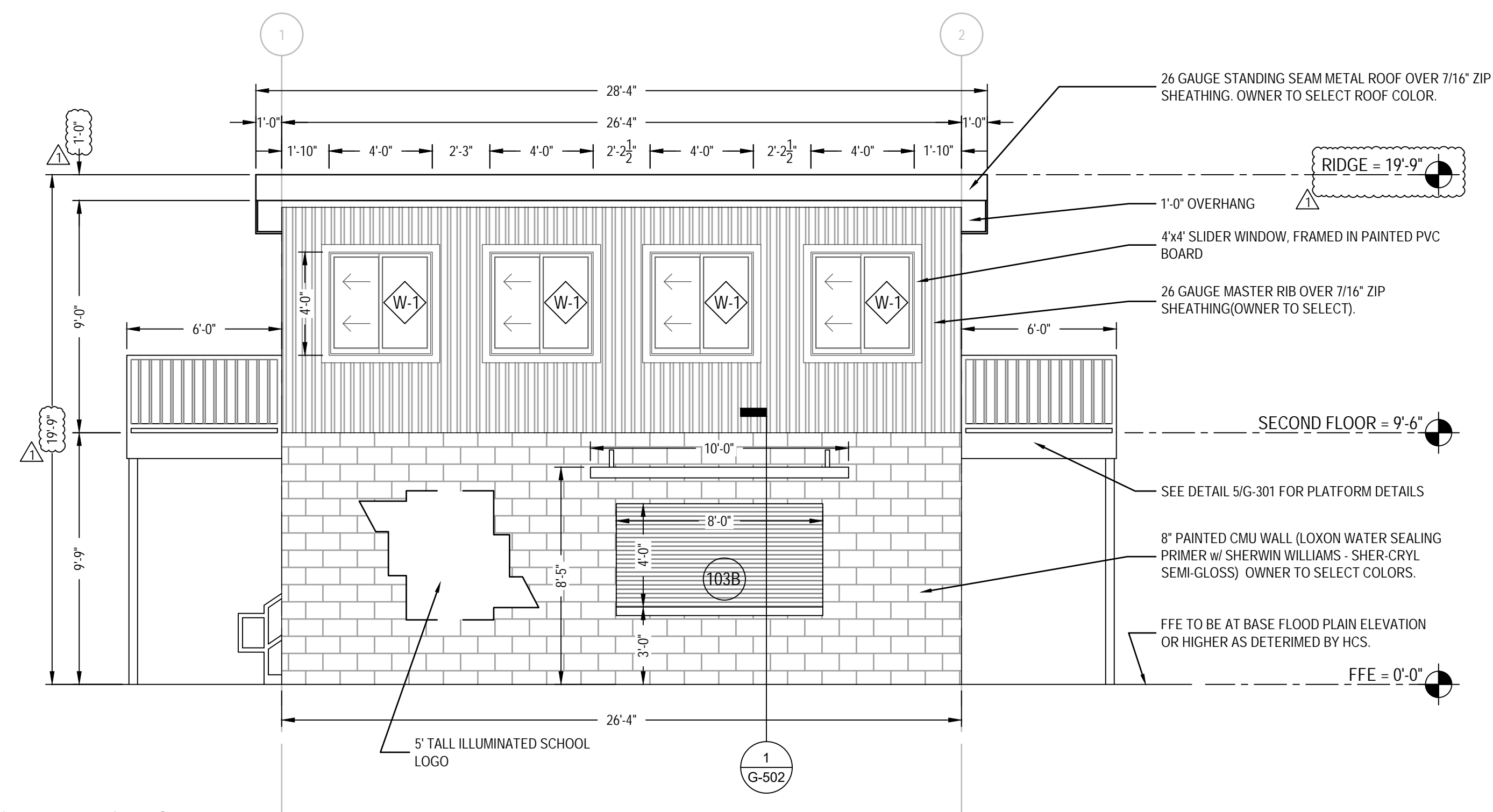
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DATE: 1/10/2023
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CHECKED BY: JEL

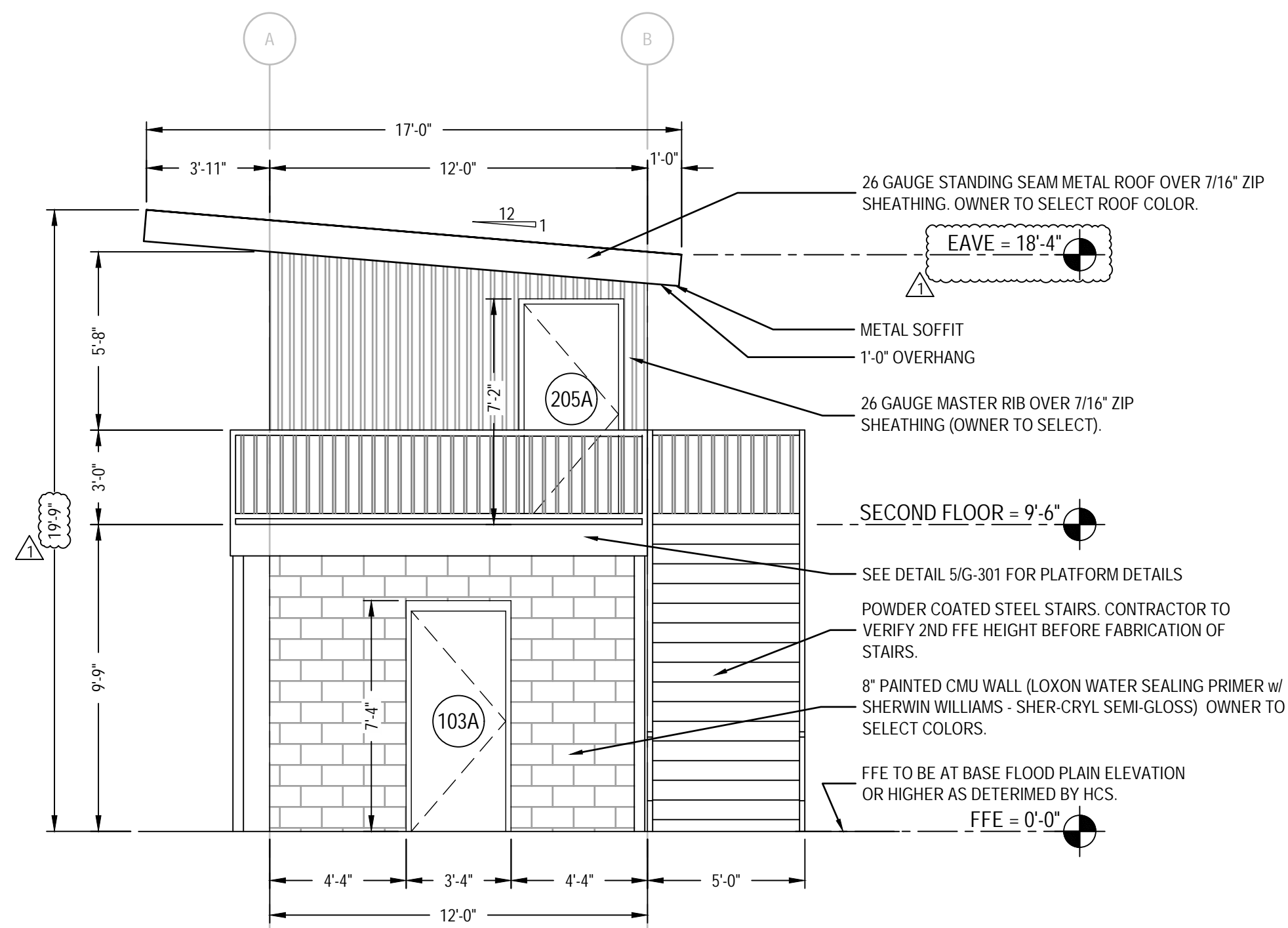
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EXTERIOR ELEVATIONS
SHEET NUMBER:
G-201
PROJECT# 21-11110



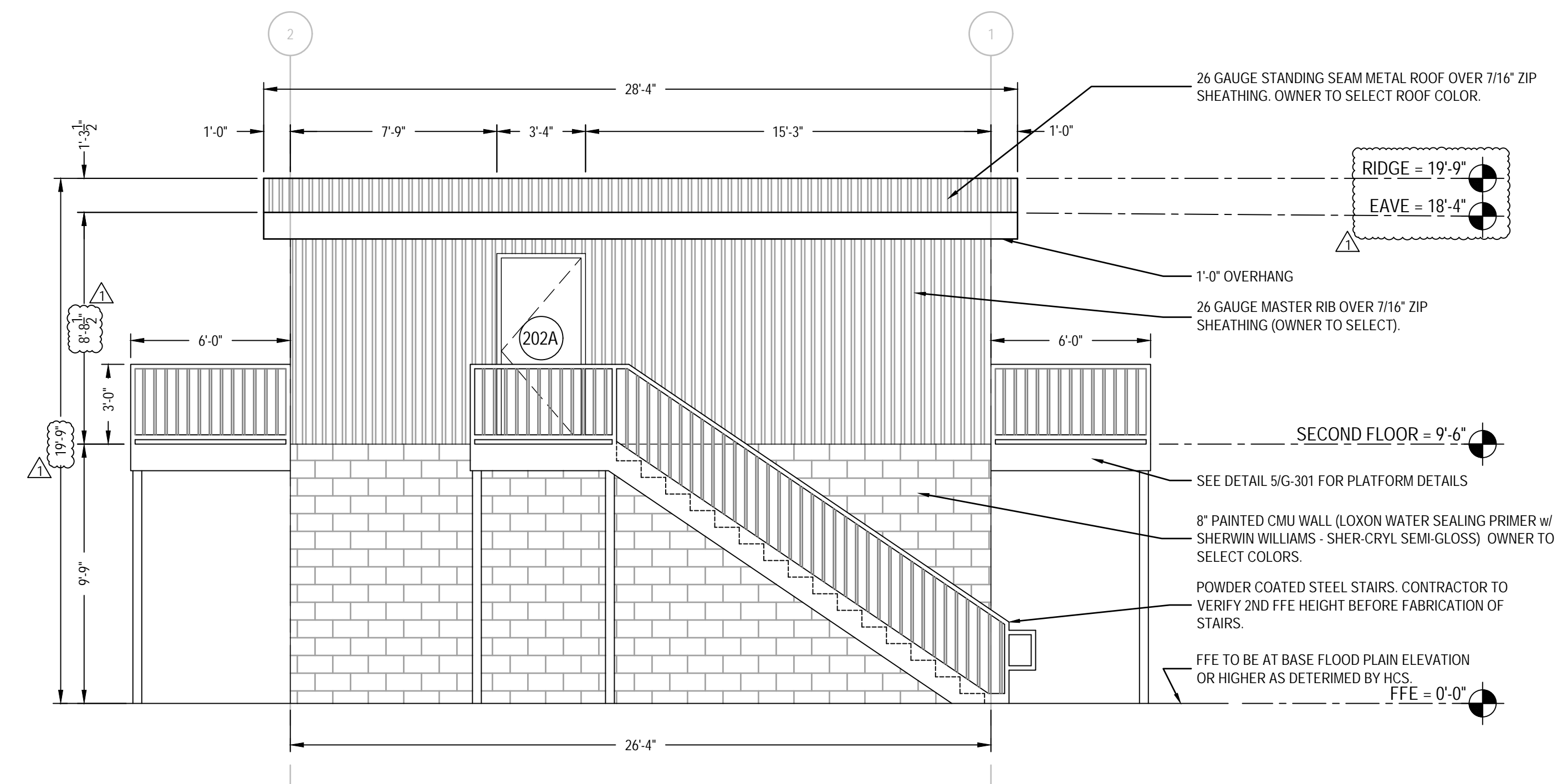
1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



2 EAST ELEVATION
SCALE: 1/4" = 1'-0"



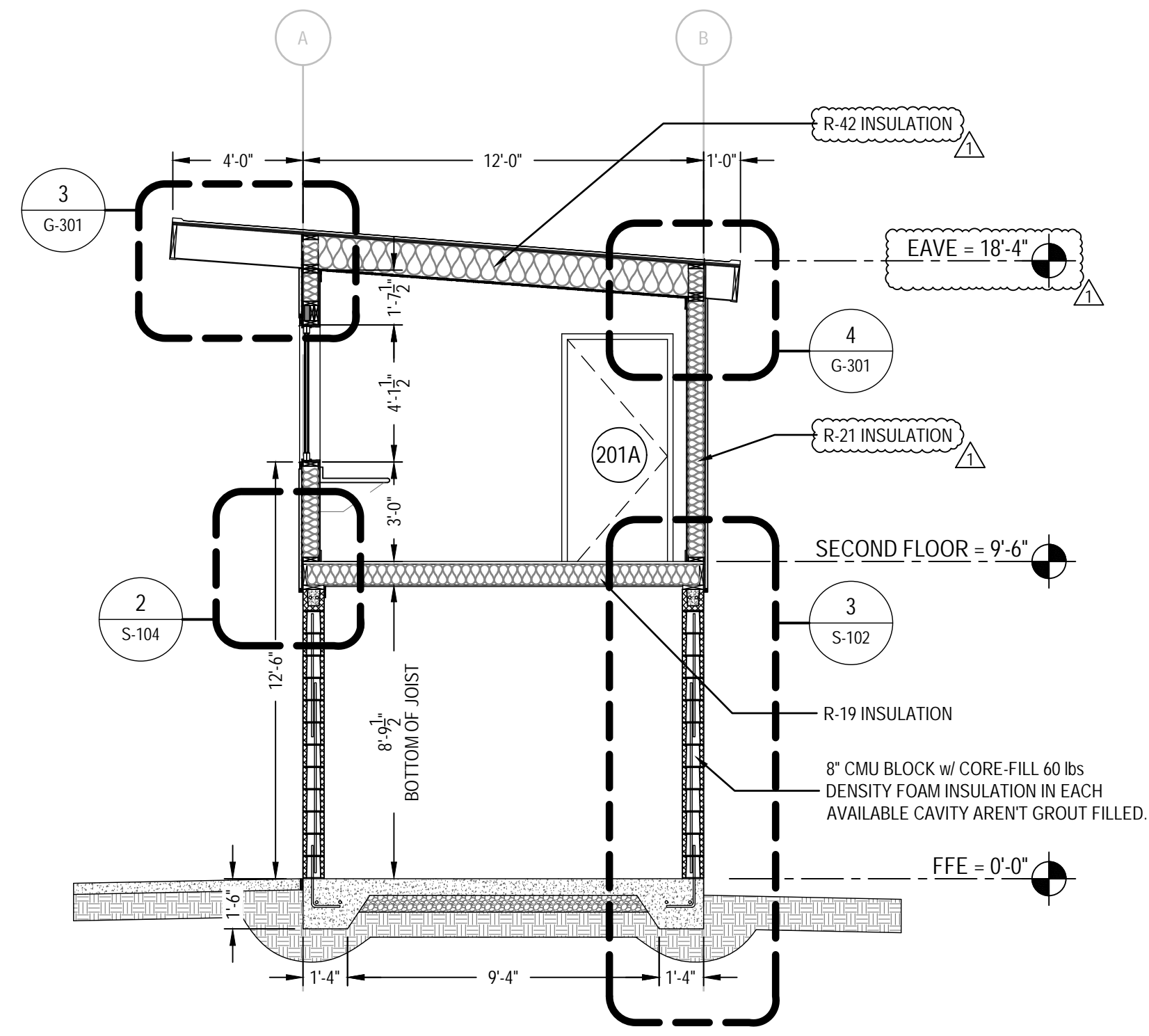
3 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



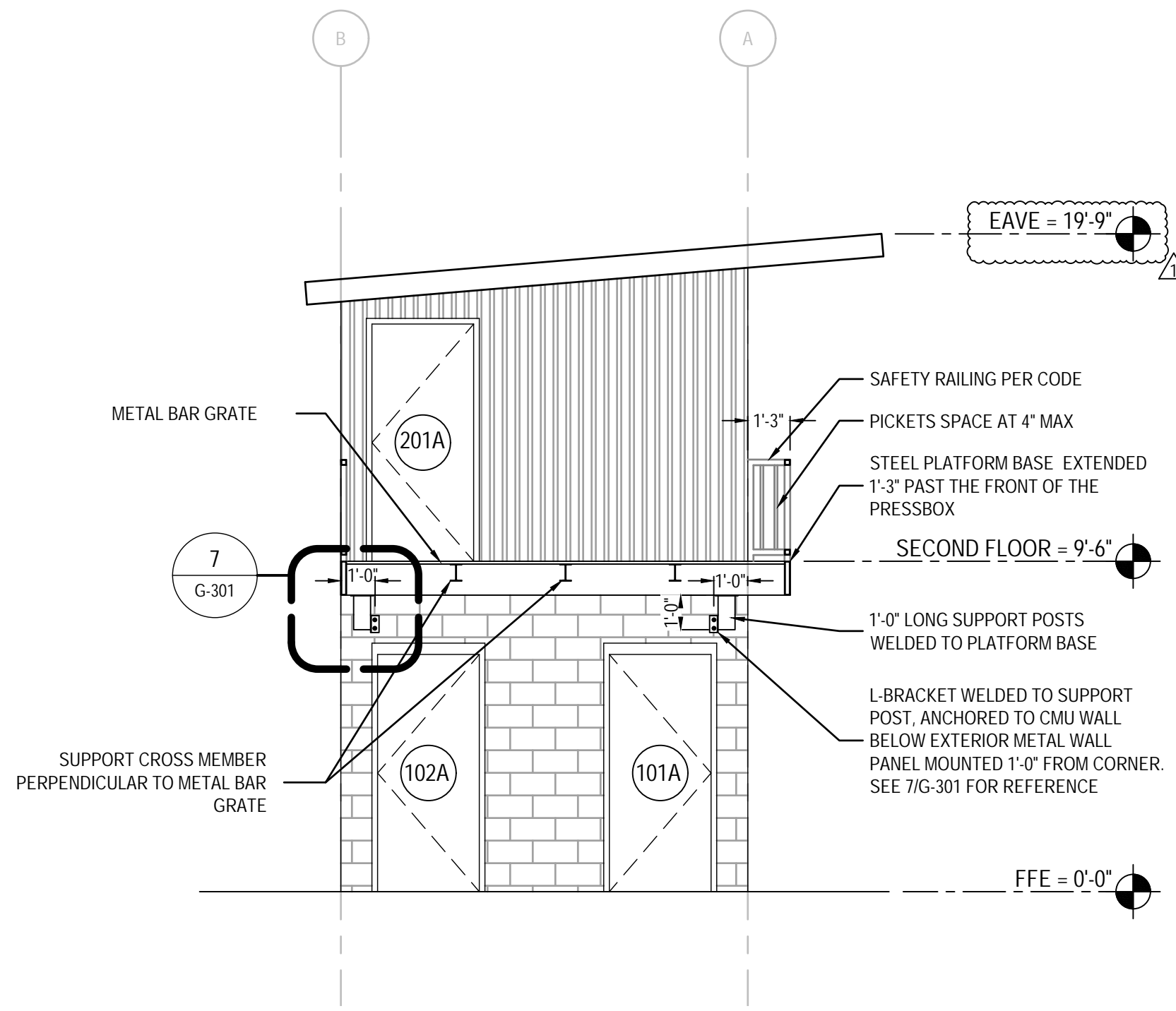
4 WEST ELEVATION
SCALE: 1/4" = 1'-0"



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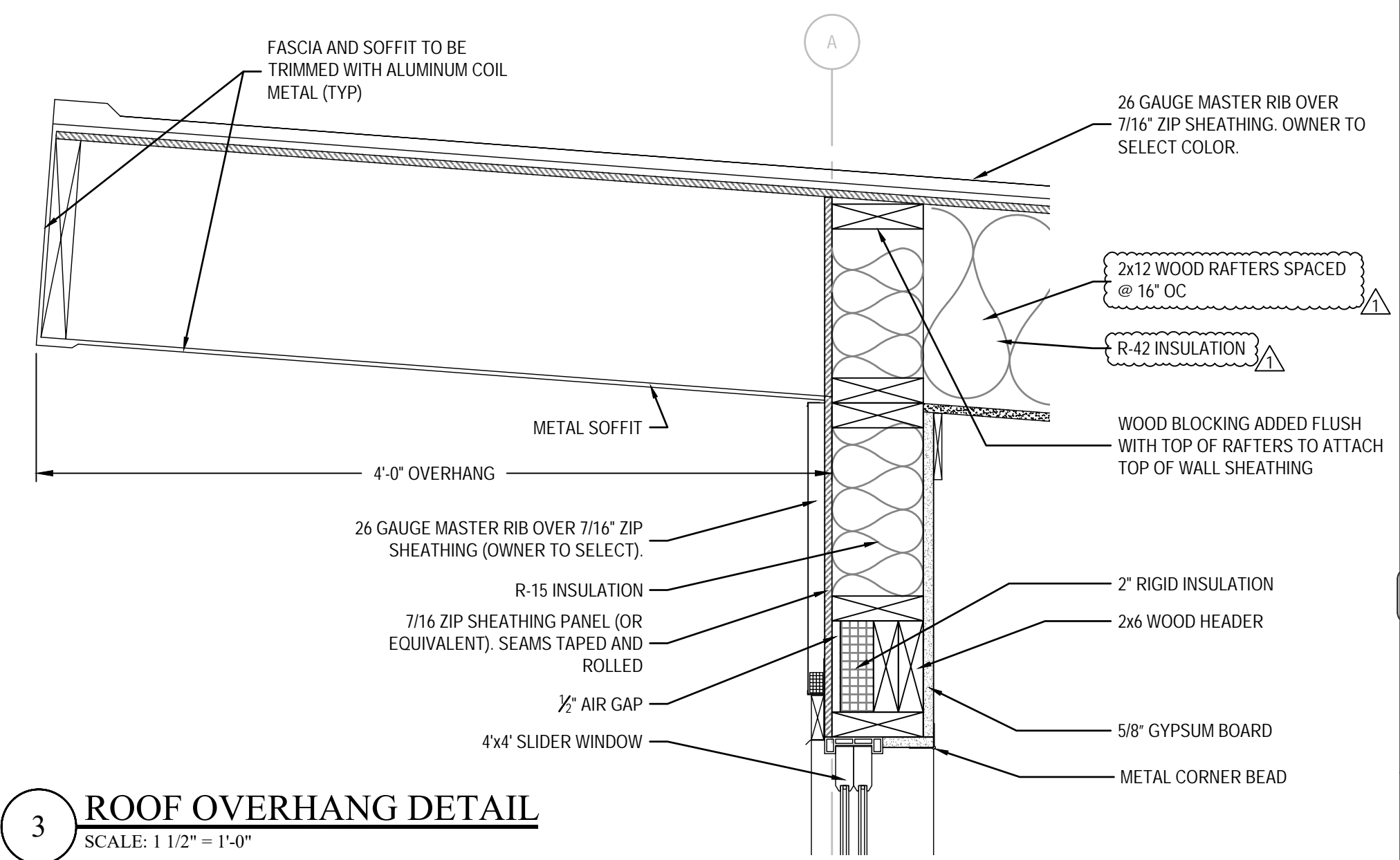


1 OVERALL BUILDING SECTION
SCALE: 1/4" = 1'-0"

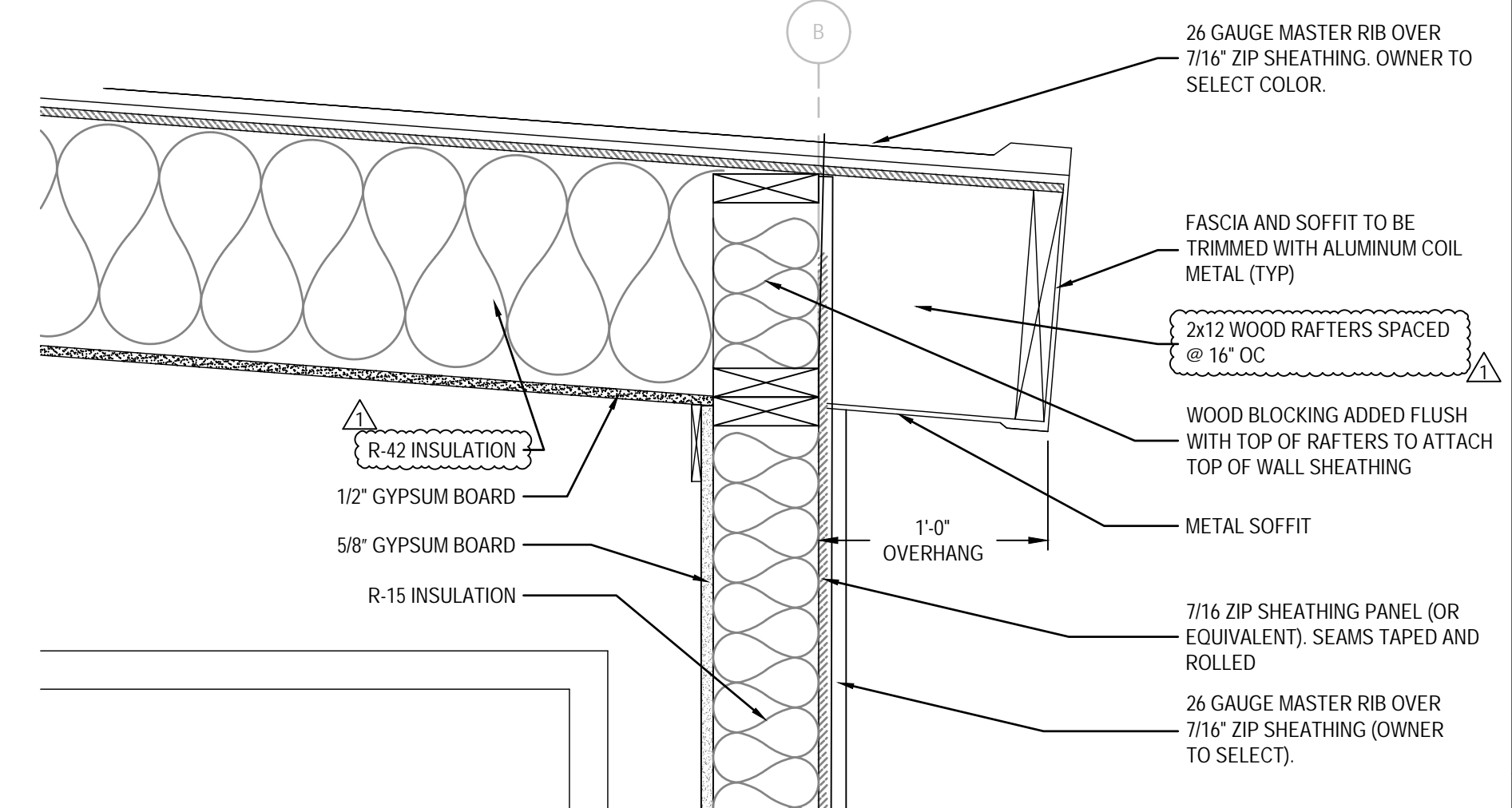


2 MEDIA PLATFORM SECTION
SCALE: 1/4" = 1'-0"

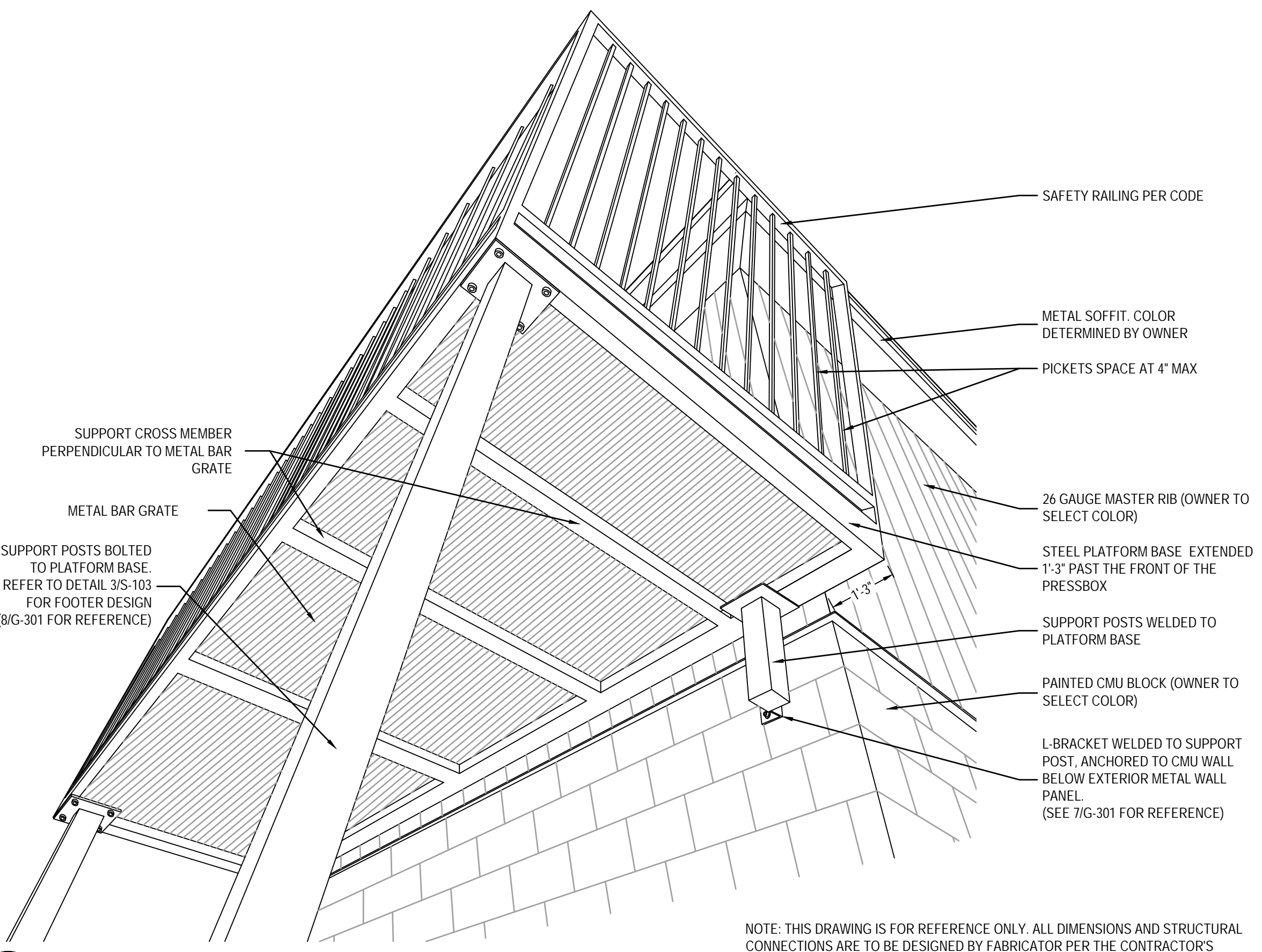
NOTE: WHERE SUPPORT BRACKETS ARE ANCHORED TO THE CMU WALL, THOSE CELLS ARE TO BE GROUT FILLED AND REINFORCED W/ #5 REBAR REINFORCEMENT.



3 ROOF OVERHANG DETAIL
SCALE: 1 1/2" = 1'-0"



4 ROOF OVERHANG DETAIL
SCALE: 1 1/2" = 1'-0"



5 MEDIA PLATFORM DETAIL
NTS

NOTE: THIS DRAWING IS FOR REFERENCE ONLY. ALL DIMENSIONS AND STRUCTURAL CONNECTIONS ARE TO BE DESIGNED BY FABRICATOR PER THE CONTRACTOR'S REQUEST. THE STRUCTURAL ENGINEER WILL REVIEW THE DESIGN AND ADVISE AS NEEDED TO PROVIDE A SECURE AND STABLE PLATFORM. THE ENTIRE STRUCTURE IS TO BE BLACK POWDER COATED. STAIR CONNECTIONS TO THE BUILDING ARE TO BE DETERMINED BY THE FABRICATOR.



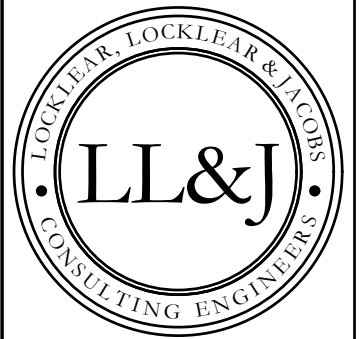
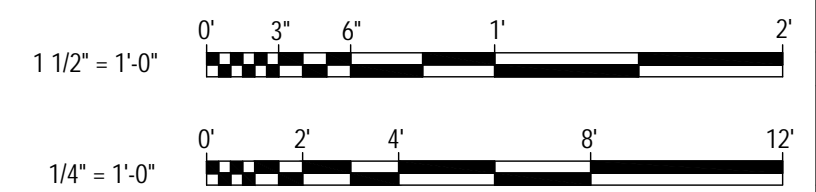
6 STAIR ANCHOR DETAIL
NTS



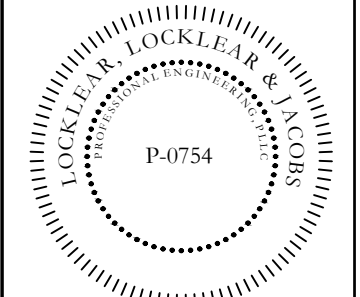
7 PLATFORM BRACKET CONNECTION
NTS



8 SUPPORT POST DETAIL
NTS



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SHEET TITLE

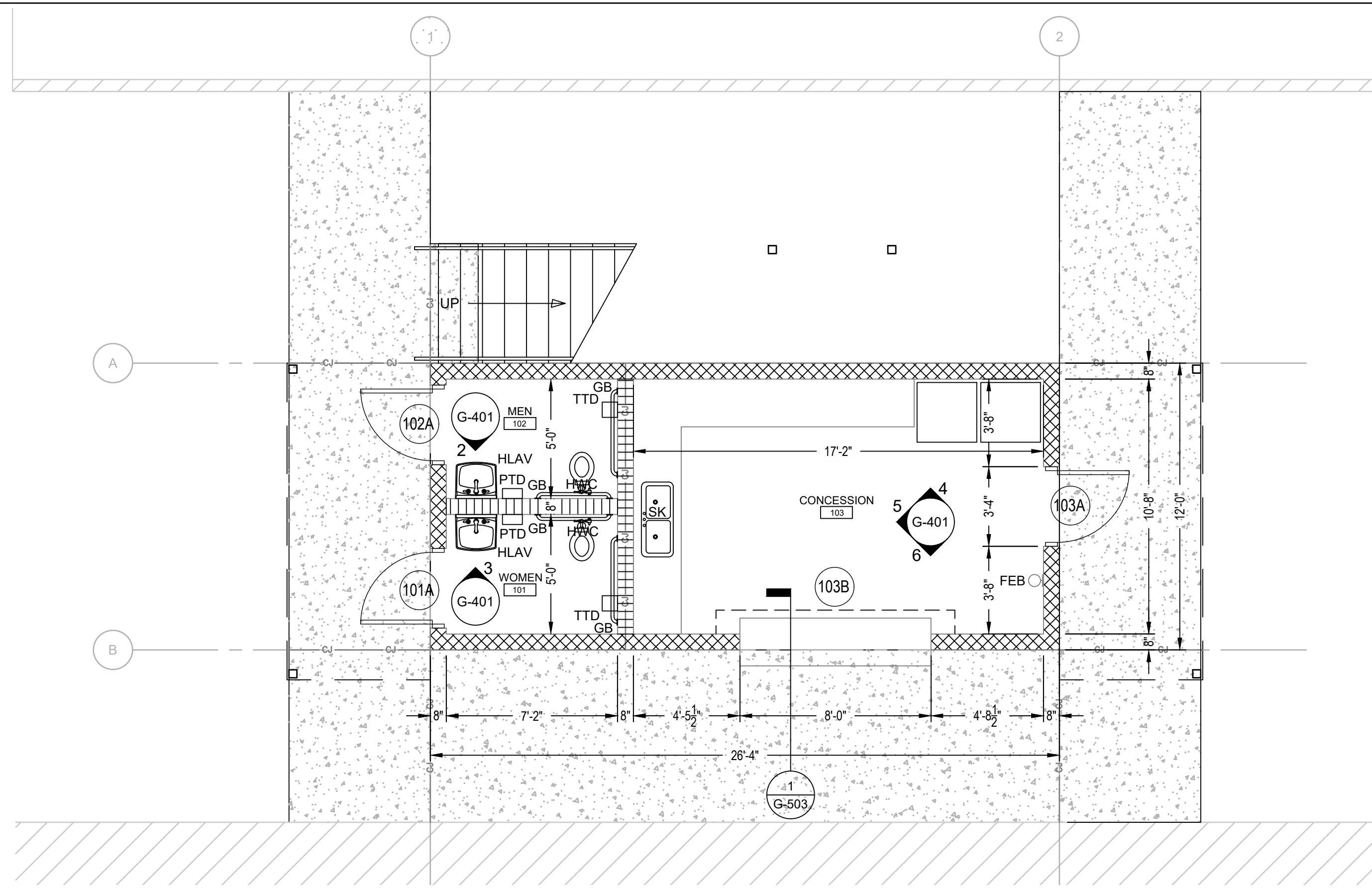
HARNETT CENTRAL PRESS BOX
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ANGIER, NC 27501

REVISION	DATE	DESCRIPTION
1	4/13/2023	ROOF RAFTERS AND INSULATION CHANGED. ELEVATIONS UPDATED.
2		
3		
4		
5		

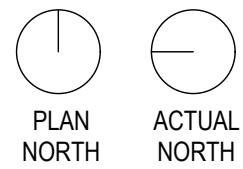
DATE: 1/10/2023
DRAWN BY: RDH
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SHEET TITLE

BUILDING SECTIONS AND DETAILS

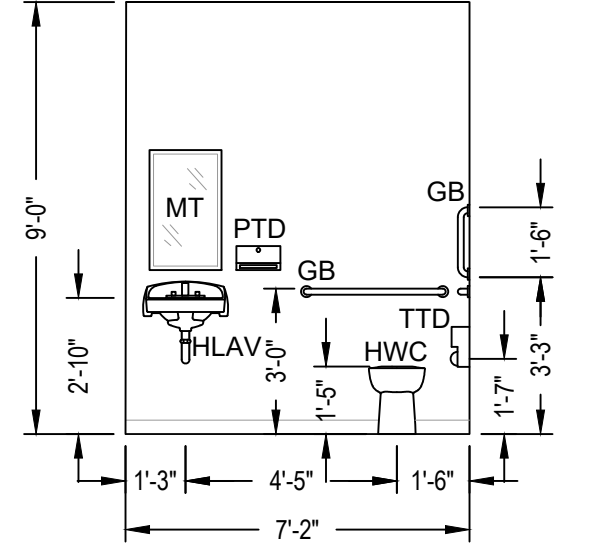
SHEET NUMBER
G-301
PROJECT# 21-11110



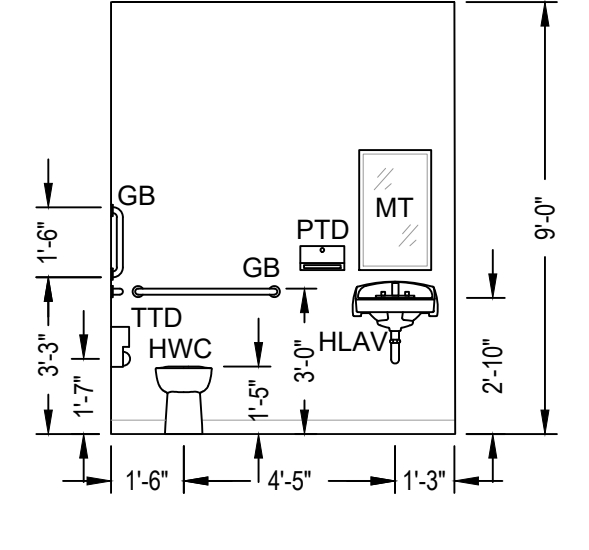
1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



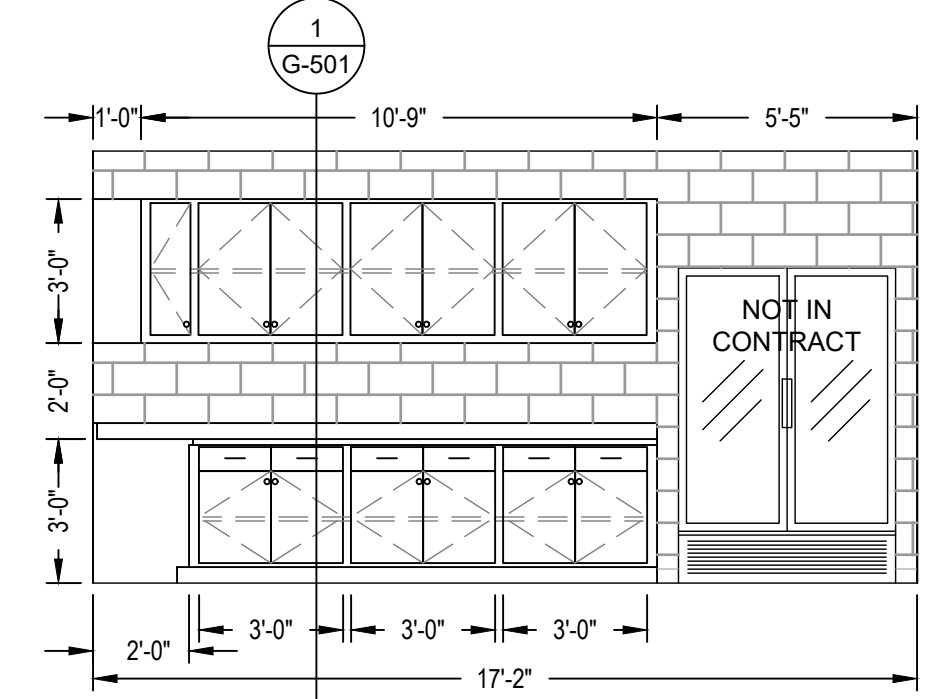
2 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



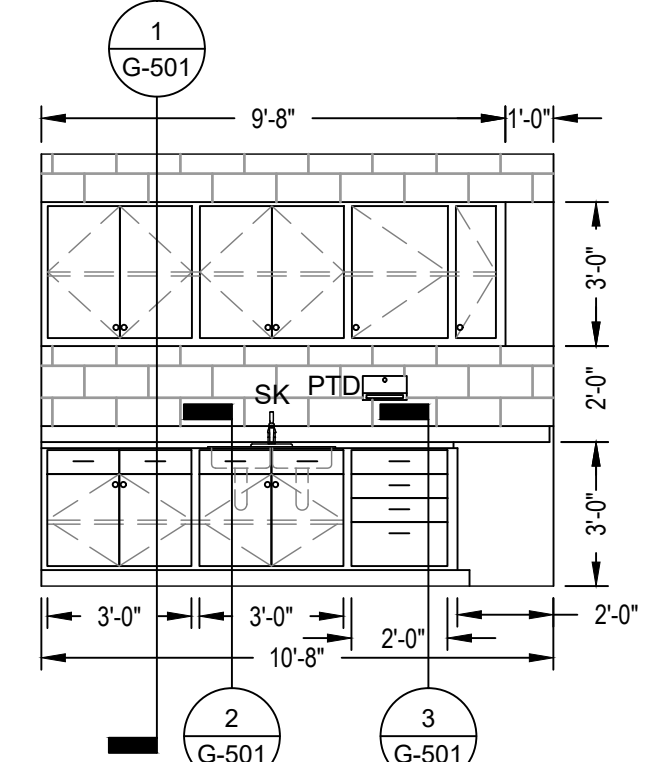
3 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



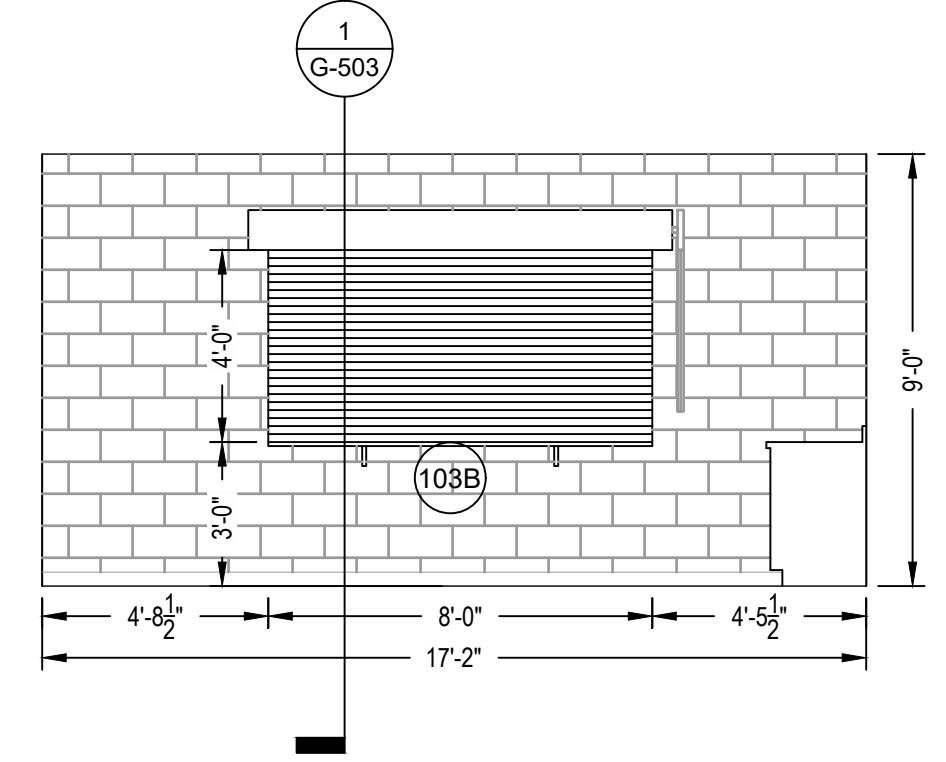
4 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



5 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



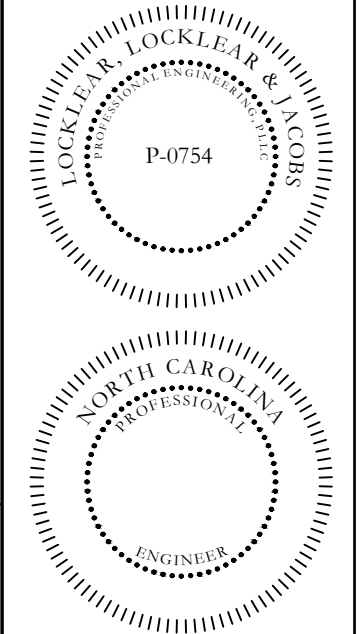
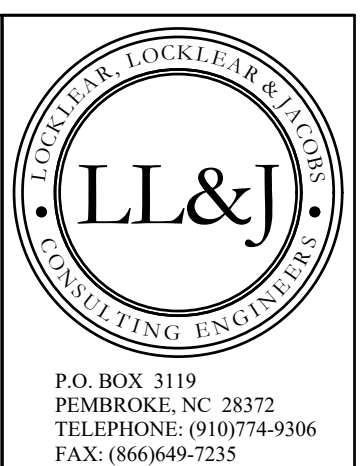
6 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



LEGEND

FEB	FIRE EXTINGUISHER BRACKET
GB	GRAB BAR
HLAV	HANDICAPPED LAVATORY
HWC	HANDICAPPED WATER CLOSET
MT	MIRROR TILTED
PTD	PAPER TOWEL DISPENSER
REF	REFRIGERATOR
SK	SINK
TTD	TOILET TISSUE DISPENSER

101A DOOR NUMBER. REFER TO SHEET G-602 FOR DOOR SCHEDULE



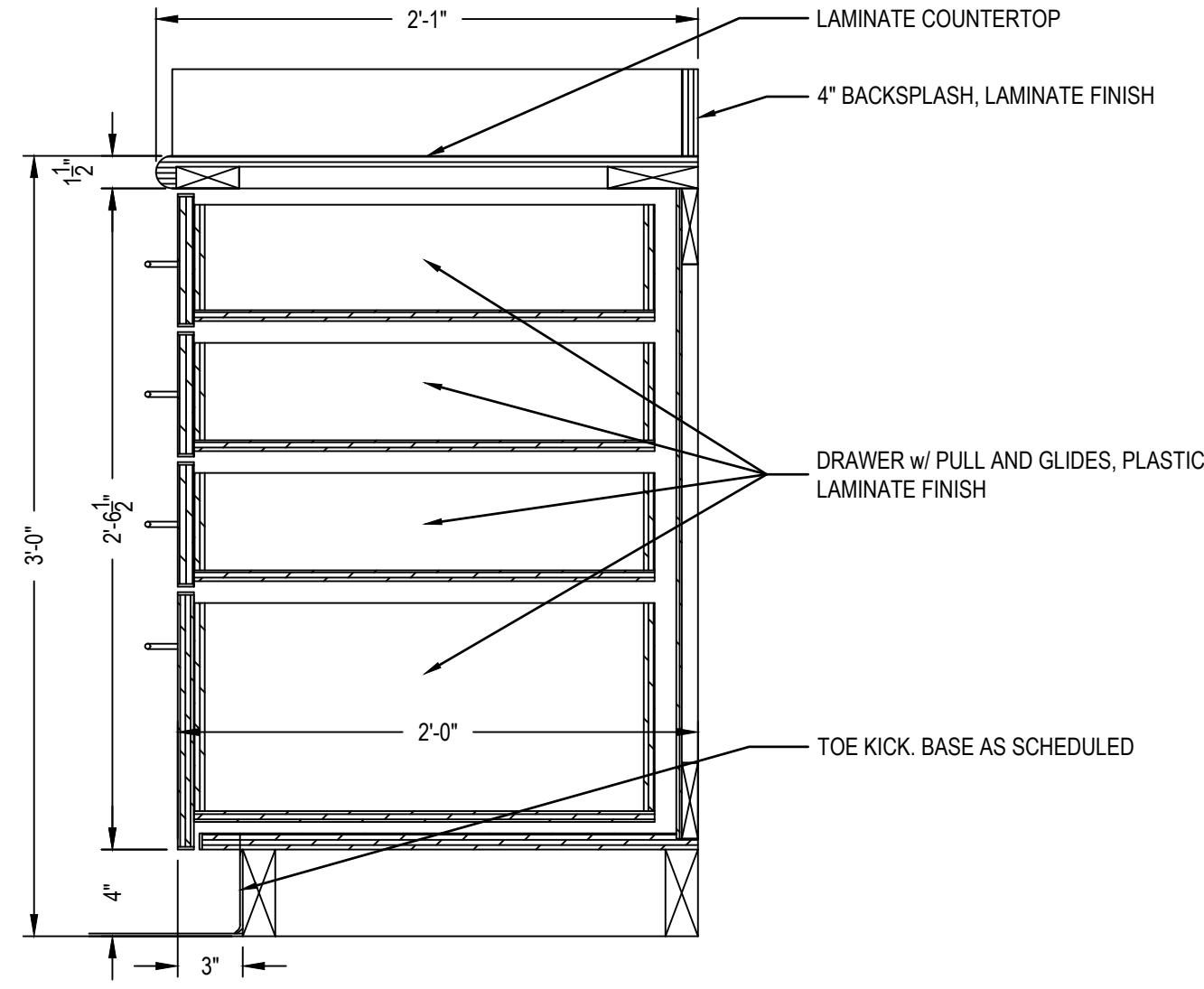
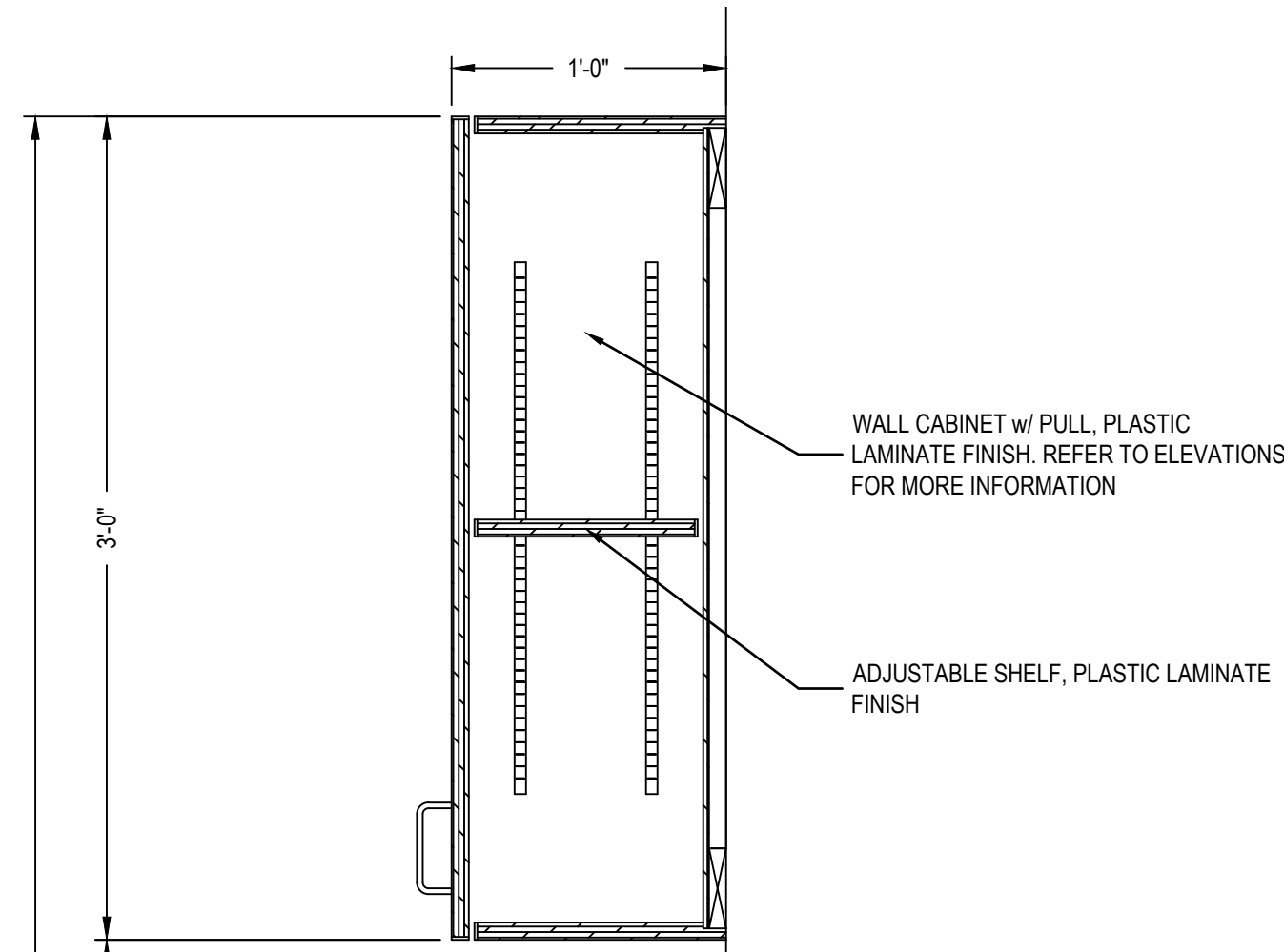
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PROJECT INFORMATION:

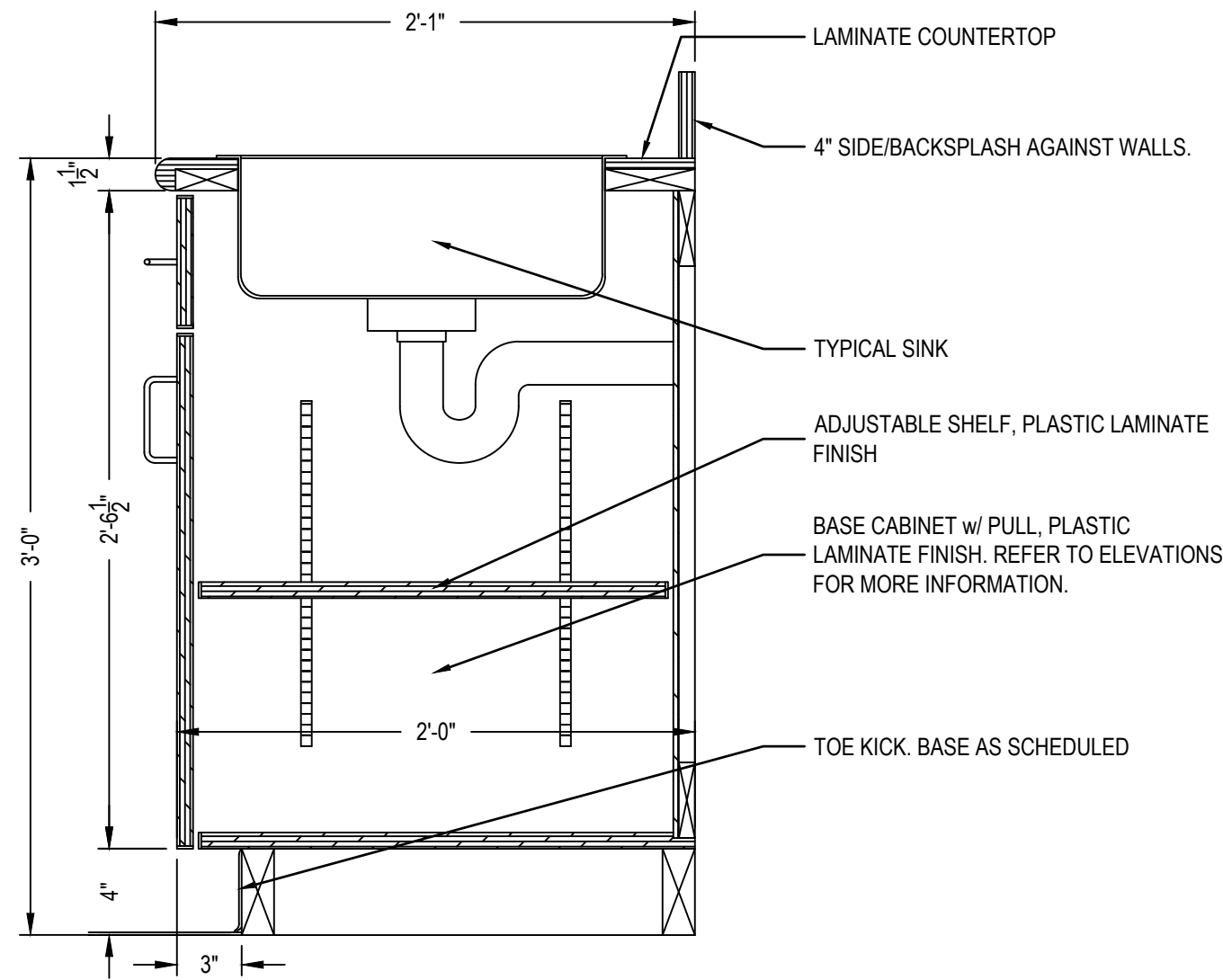
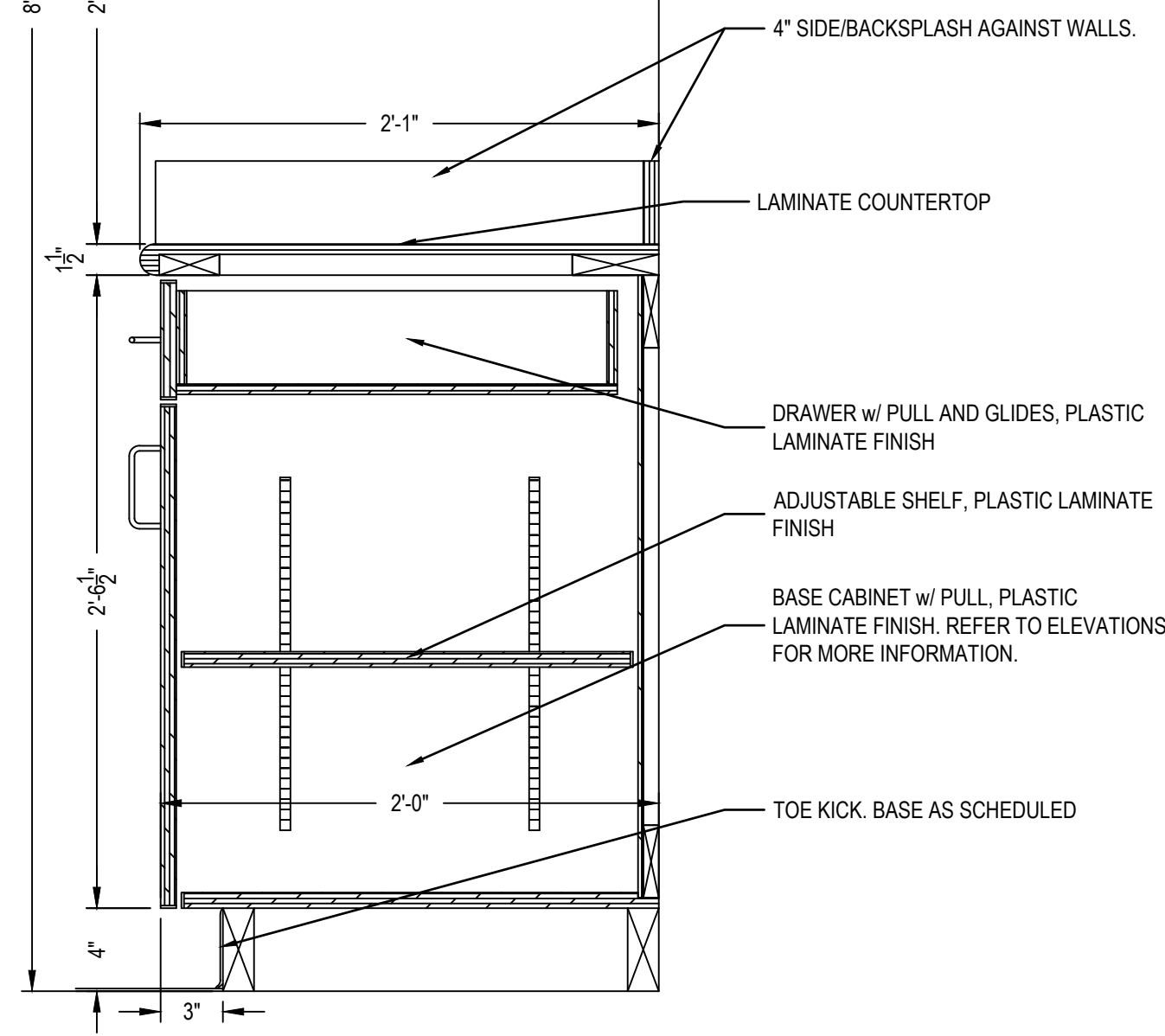
REV#	DATE	DESCRIPTION
1		
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DATE: 12/2/2022
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SHEET TITLE

ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS
SHEET NUMBER
G-401
PROJECT# 21-11110

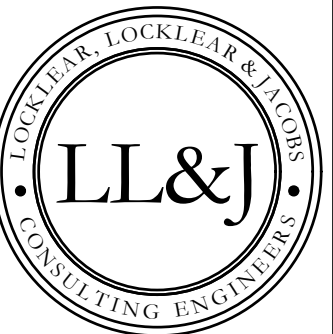


2 DRAWER CABINET SECTION
1 1/2" = 1'-0"

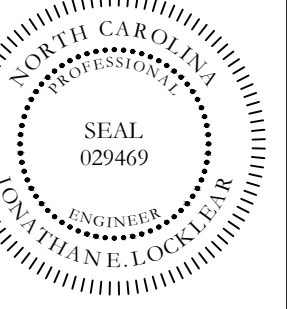
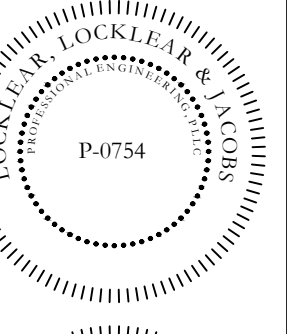


3 SINK BASE CABINET SECTION
1 1/2" = 1'-0"

1 TYPICAL BASE CABINET
1 1/2" = 1'-0"



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REV#	DATE	DESCRIPTION
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SHEET TITLE:

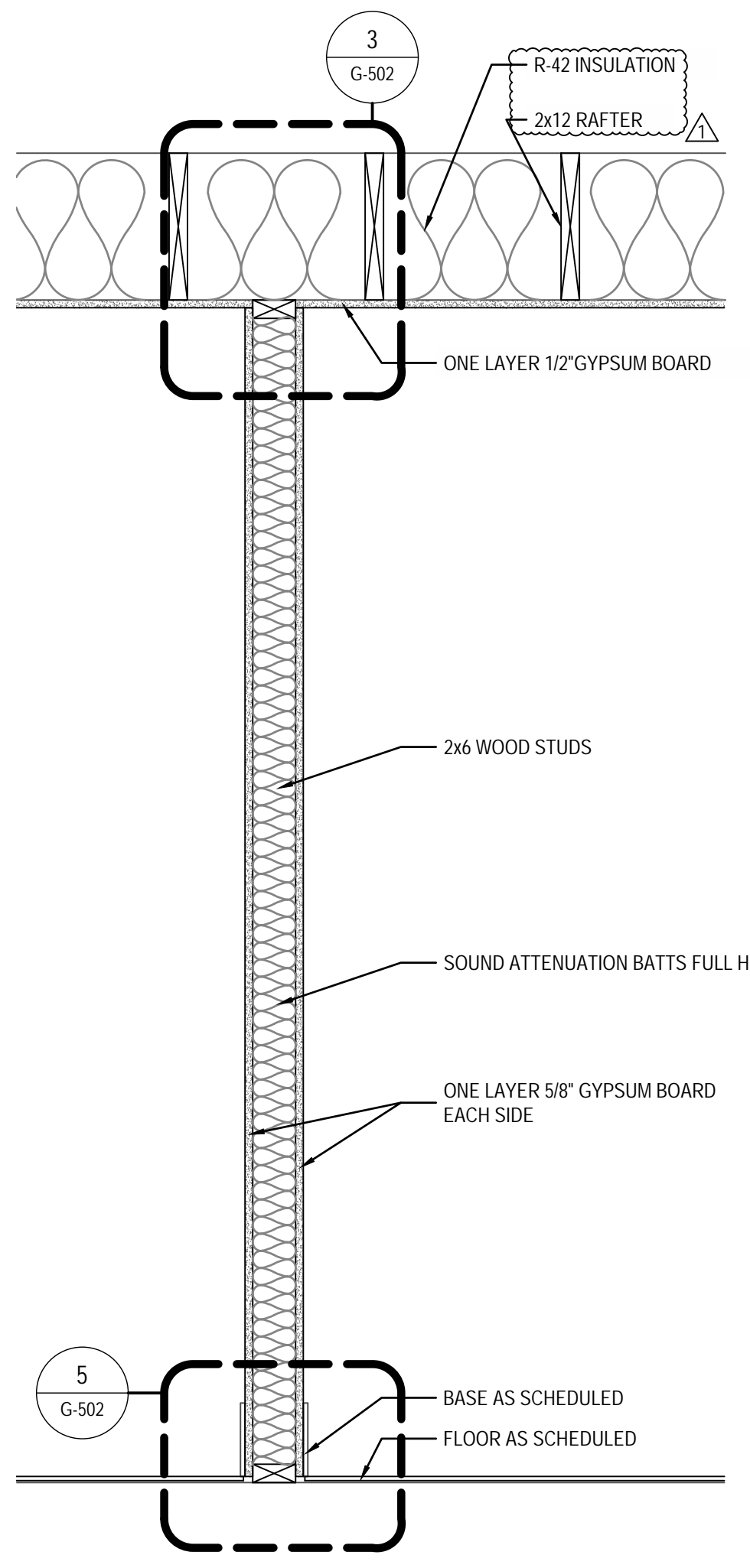
CASEWORK
DETAILS

SHEET NUMBER

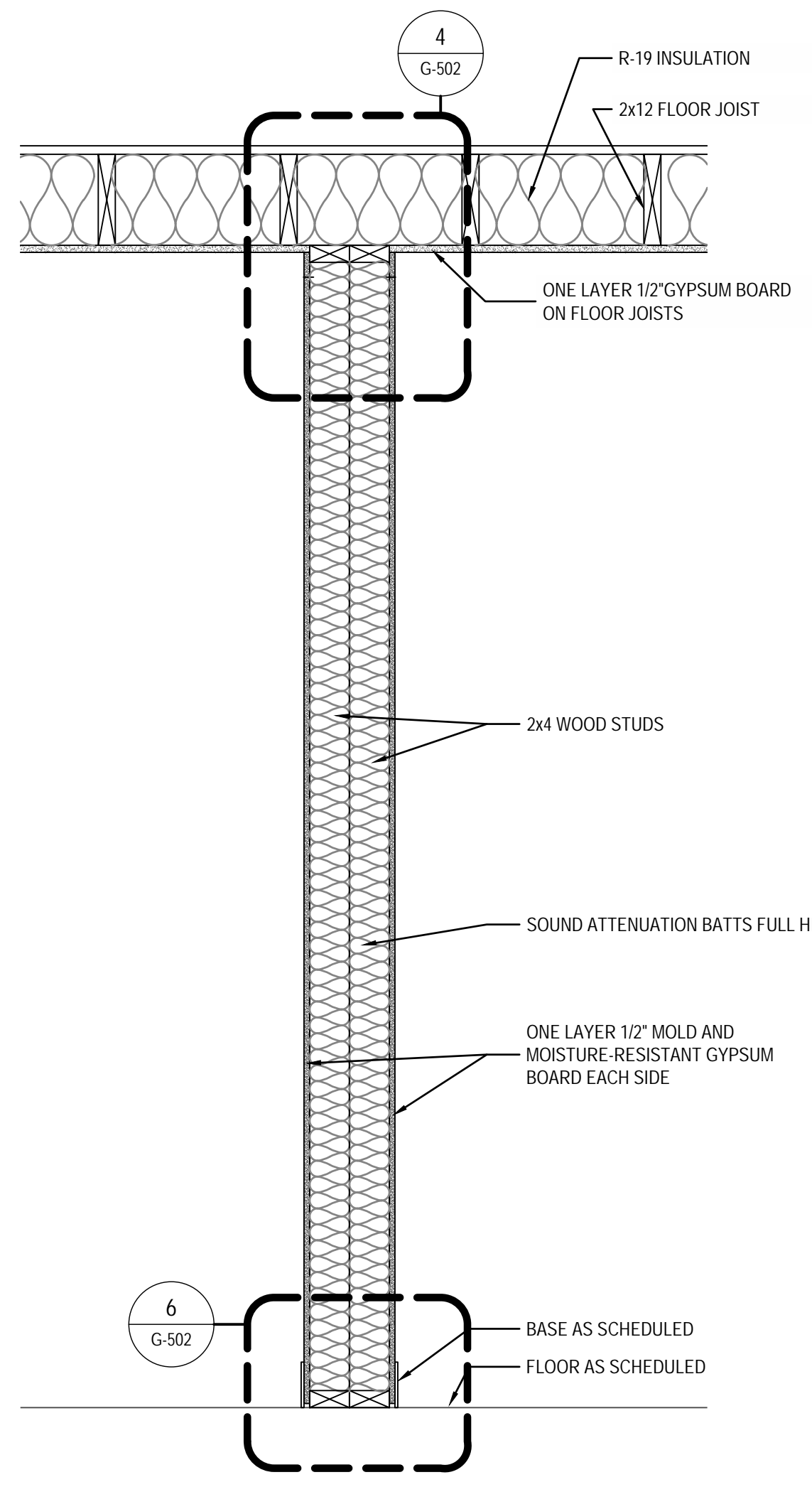
G-501

PROJECT# 21-11110

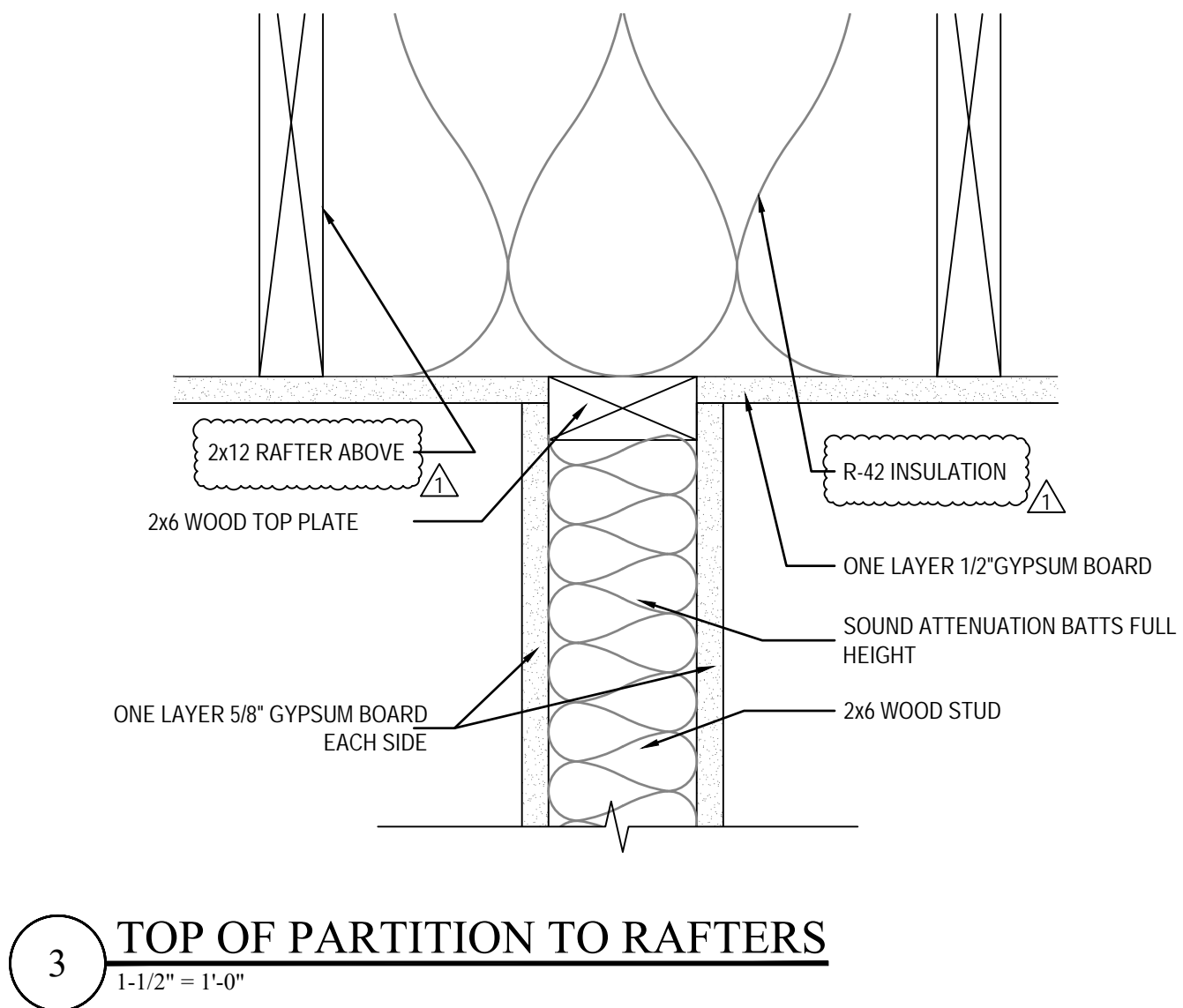




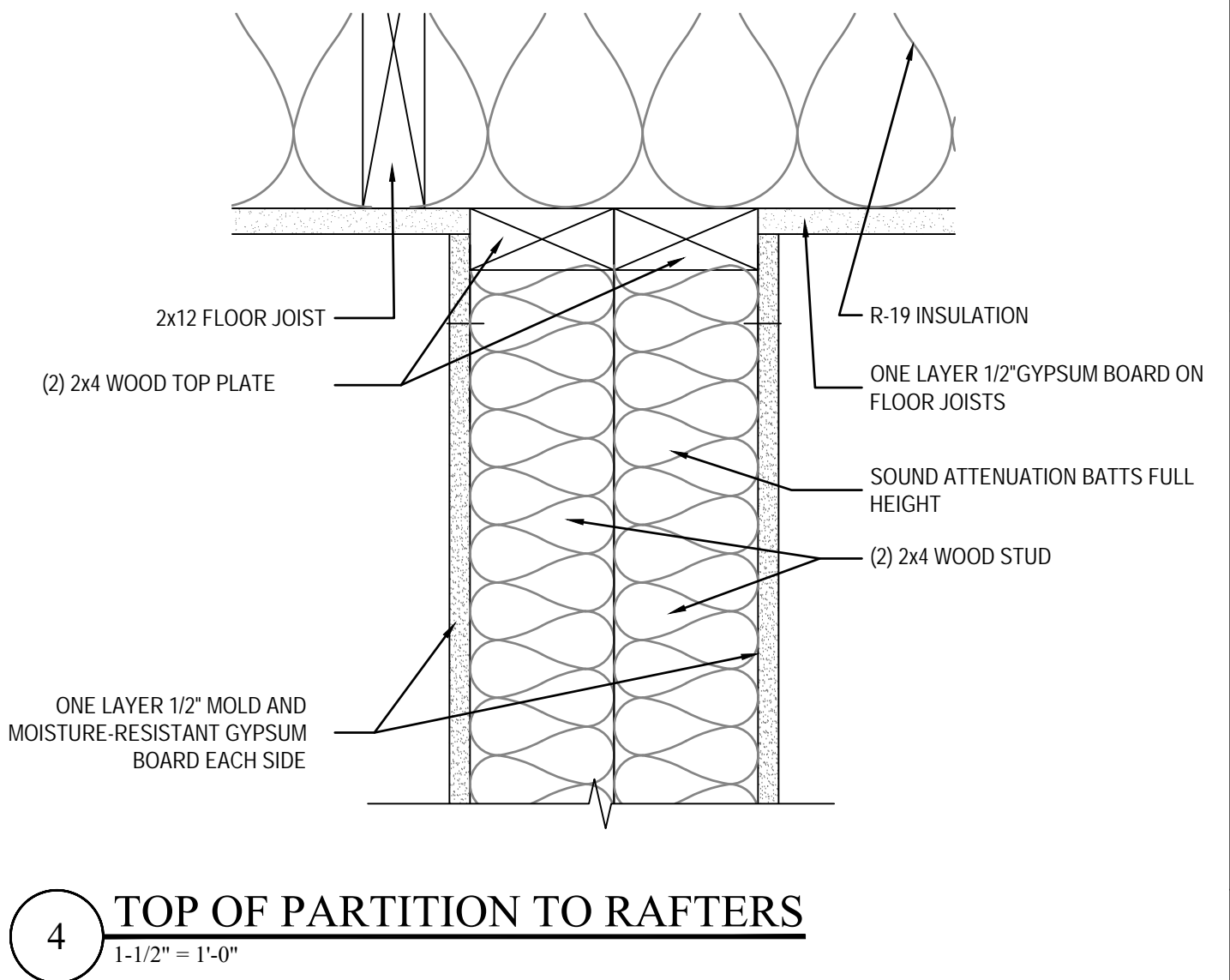
1 PARTITION TYPE P-1
1" = 1'-0"



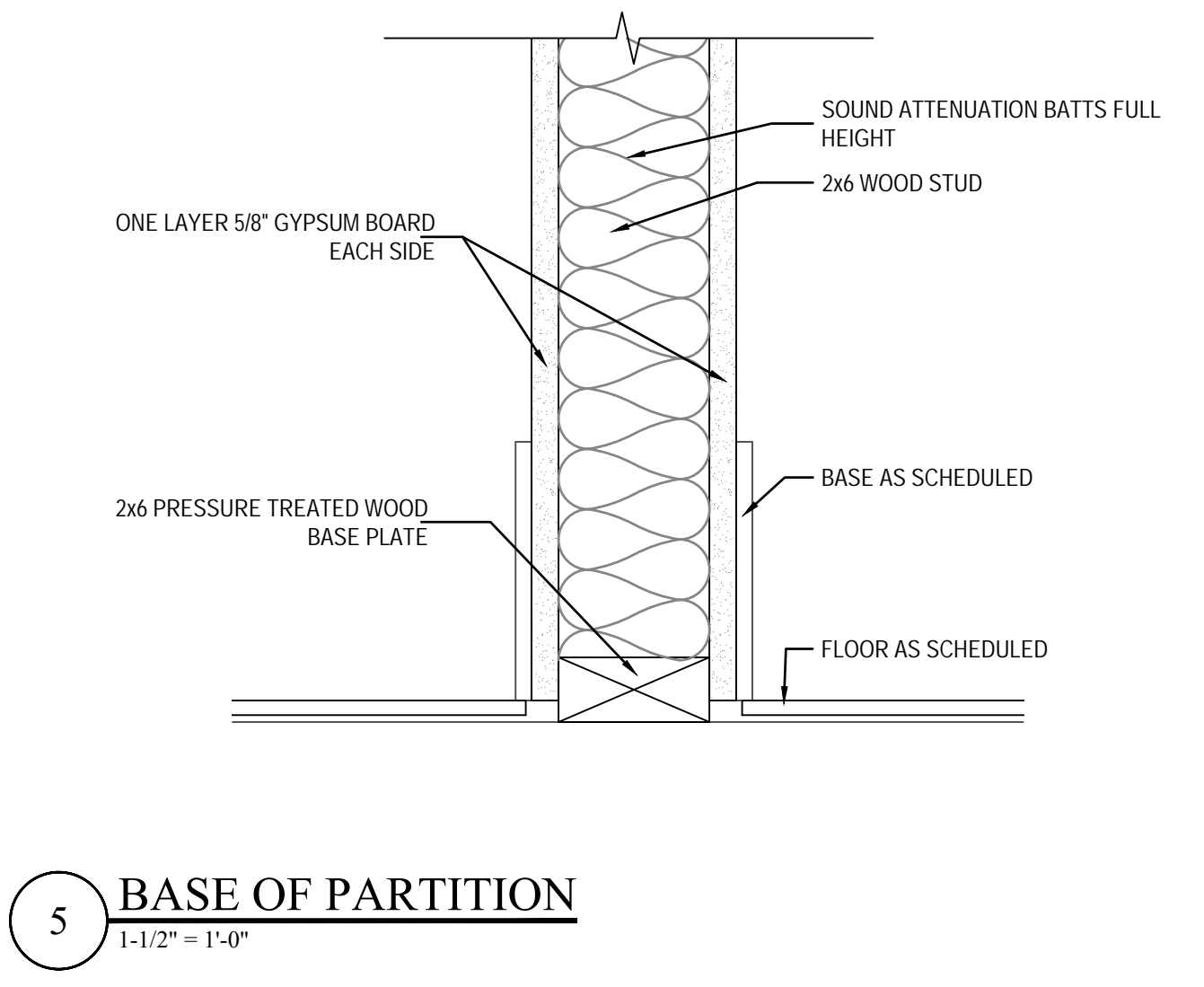
2 PARTITION TYPE P-2
1" = 1'-0"



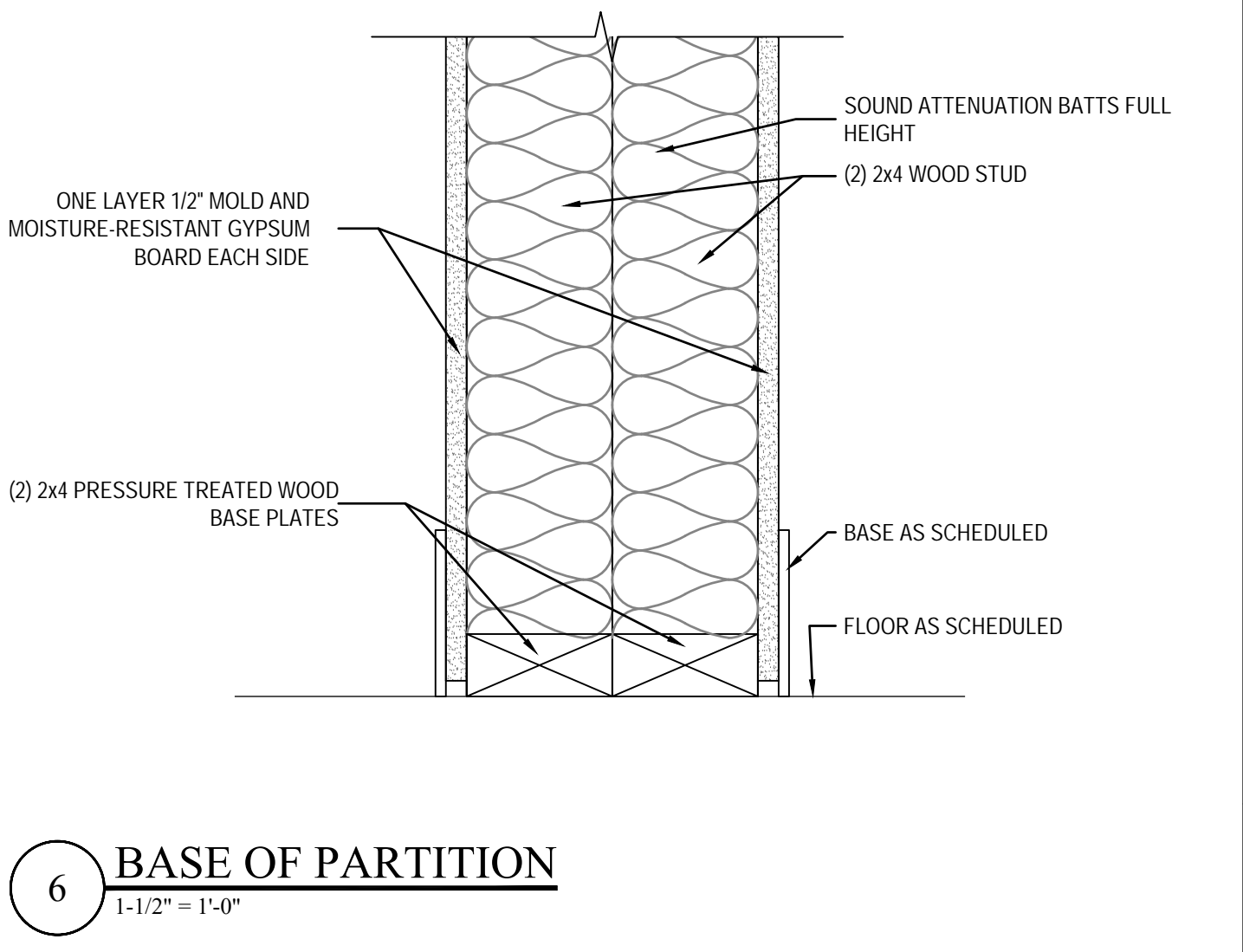
3 TOP OF PARTITION TO RAFTERS
1-1/2" = 1'-0"



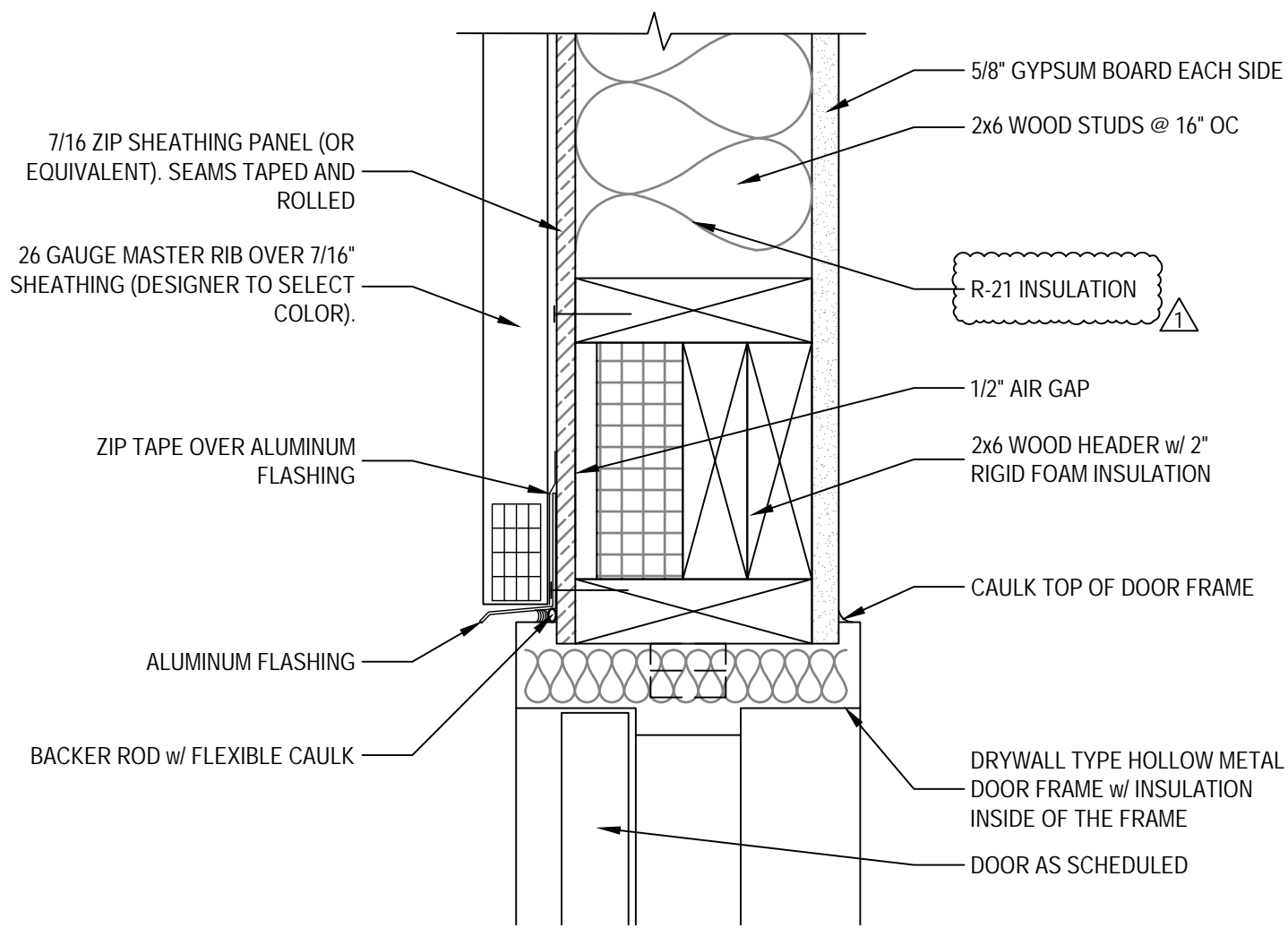
4 TOP OF PARTITION TO RAFTERS
1-1/2" = 1'-0"



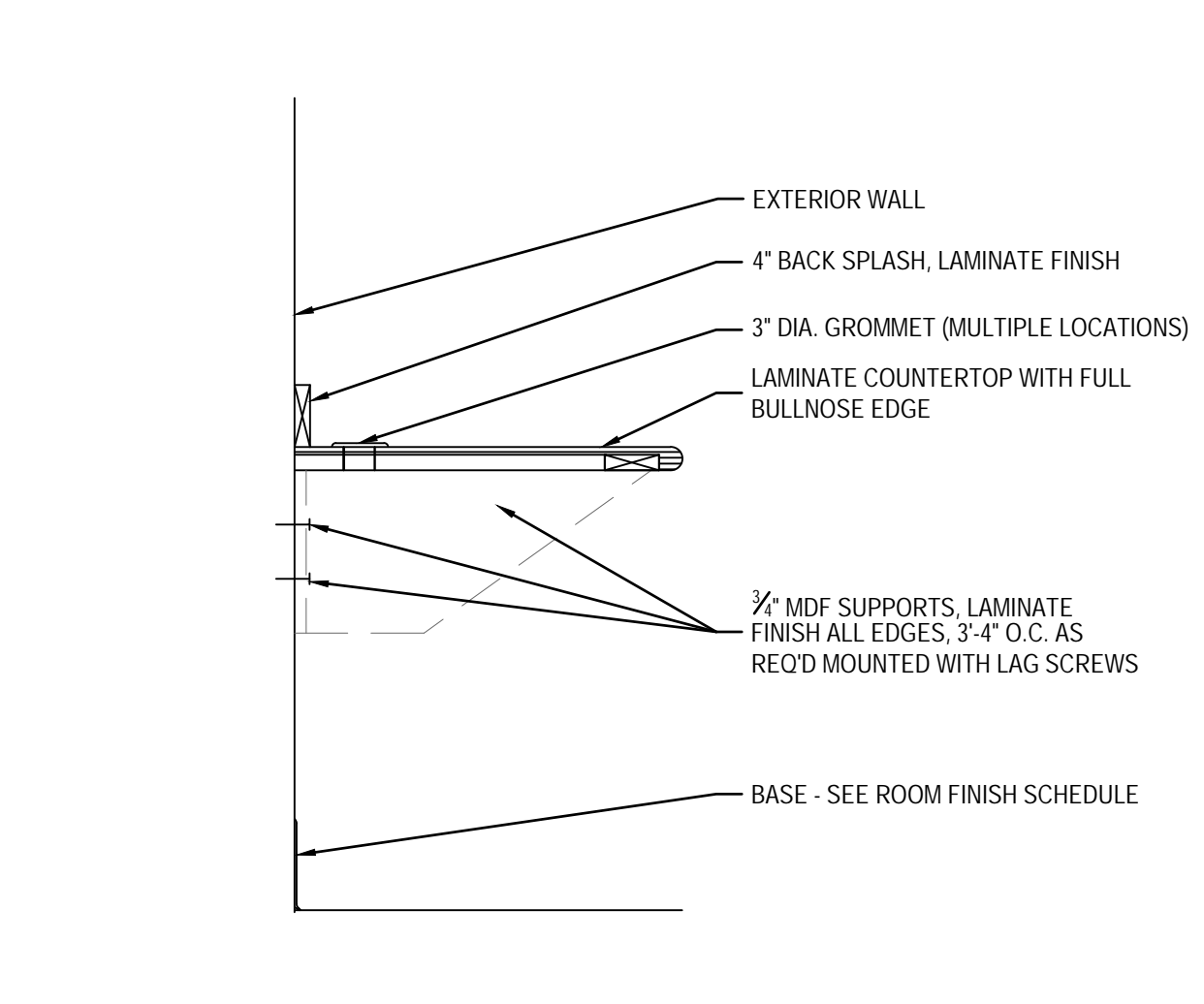
5 BASE OF PARTITION
1-1/2" = 1'-0"



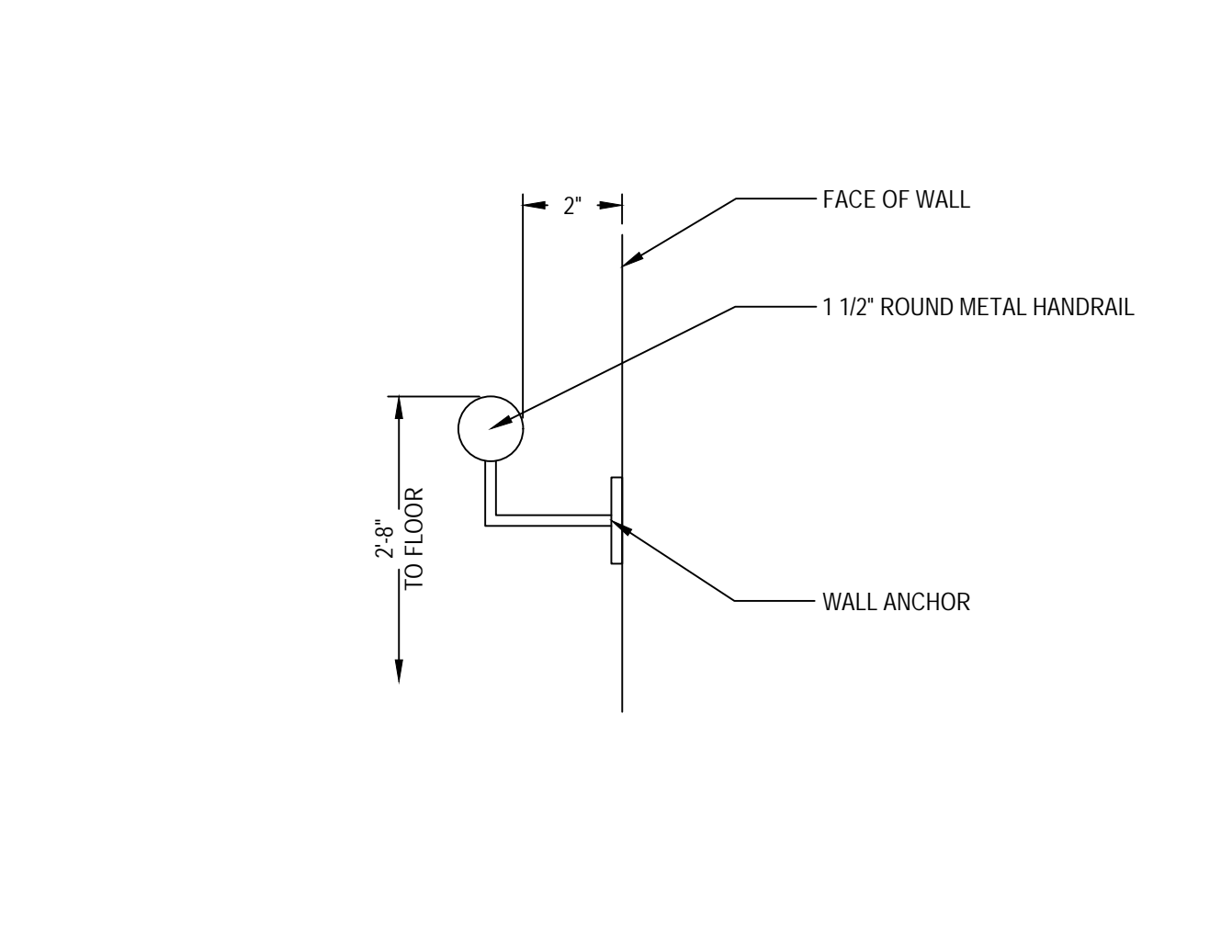
6 BASE OF PARTITION
1-1/2" = 1'-0"



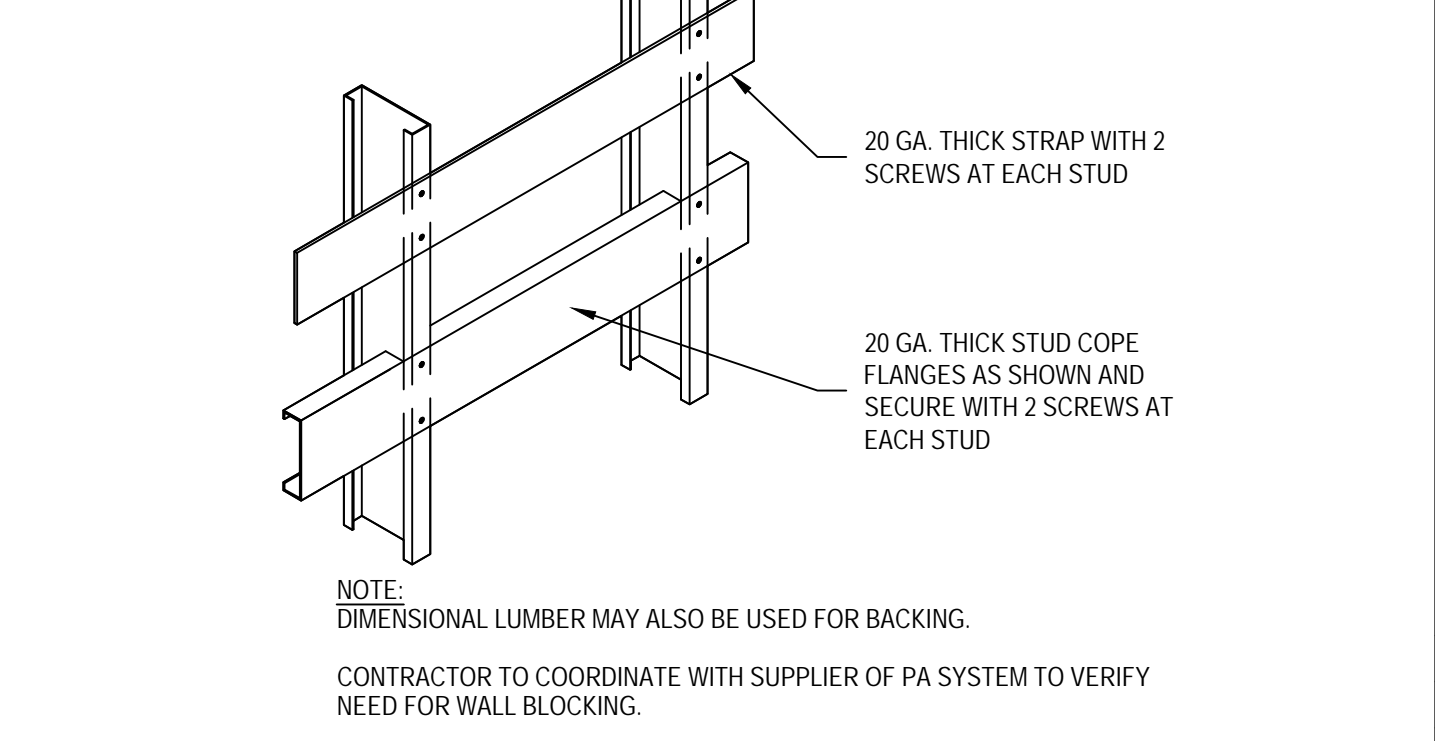
7 METAL PANEL EXTERIOR HEAD/JAMB DETAIL
3" = 1'-0"



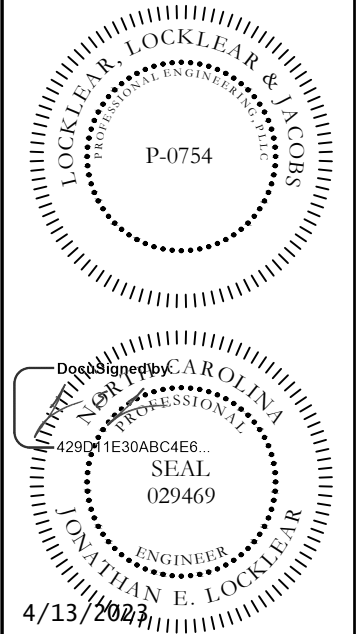
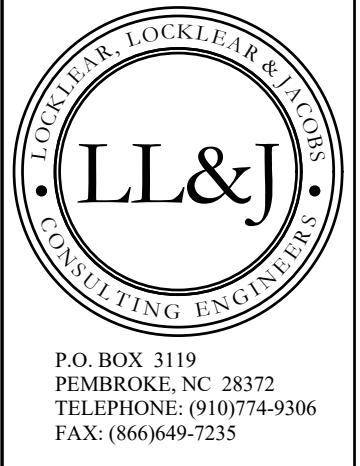
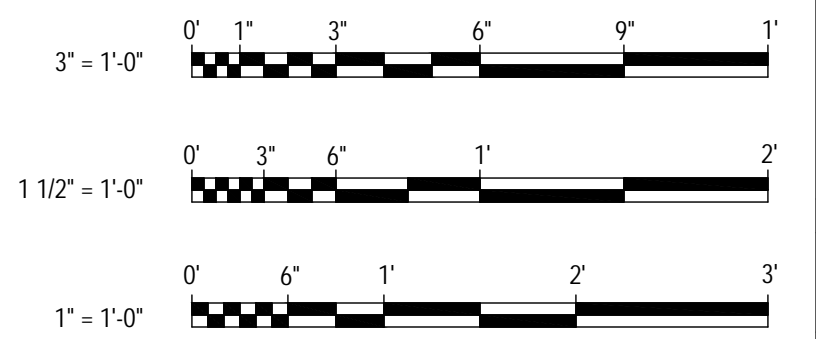
8 CONTINUOUS COUNTER TOP DETAIL
1" = 1'-0"



9 HANDRAIL DETAIL
NTS



10 CABINET BLOCKING DETAIL
NTS



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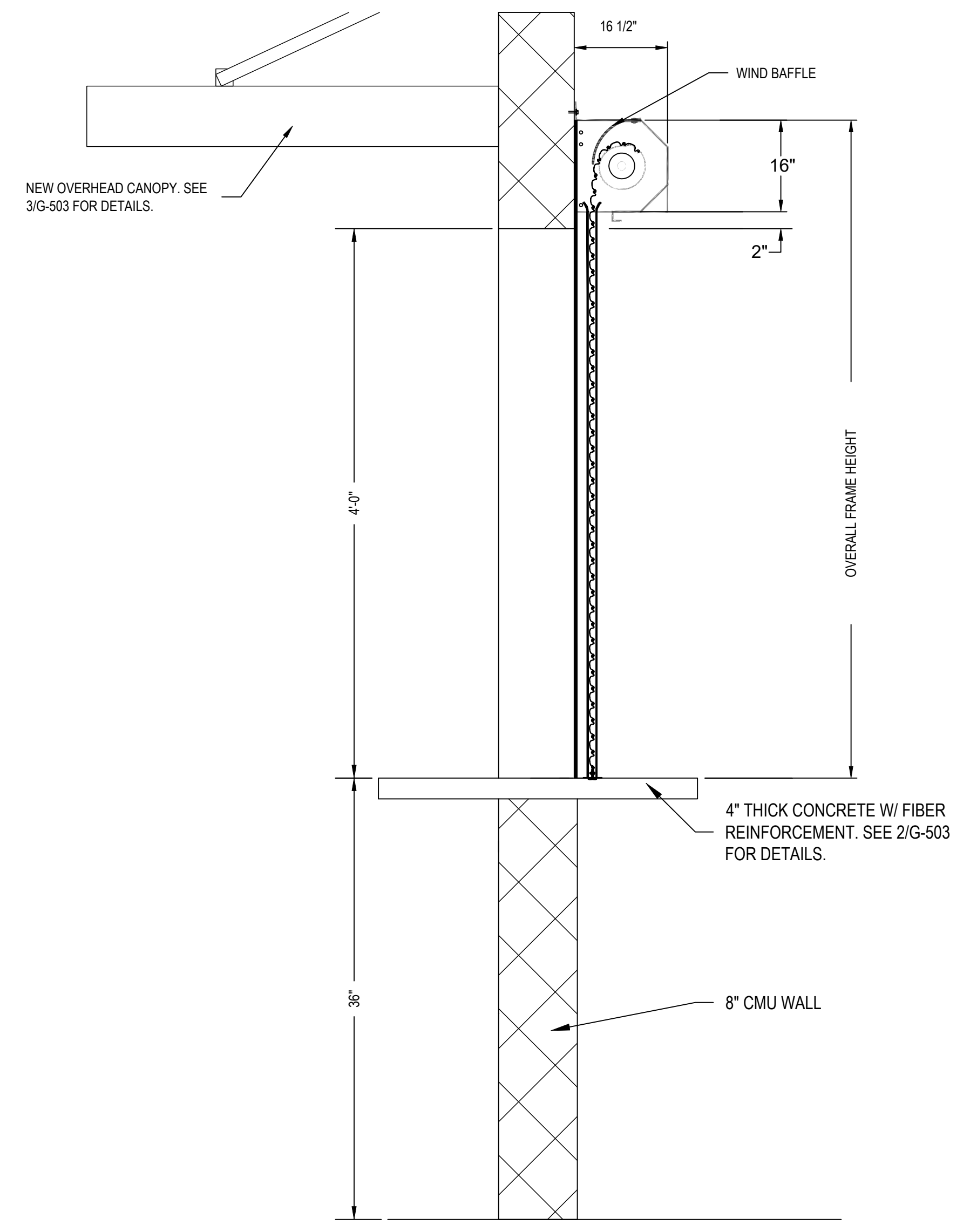
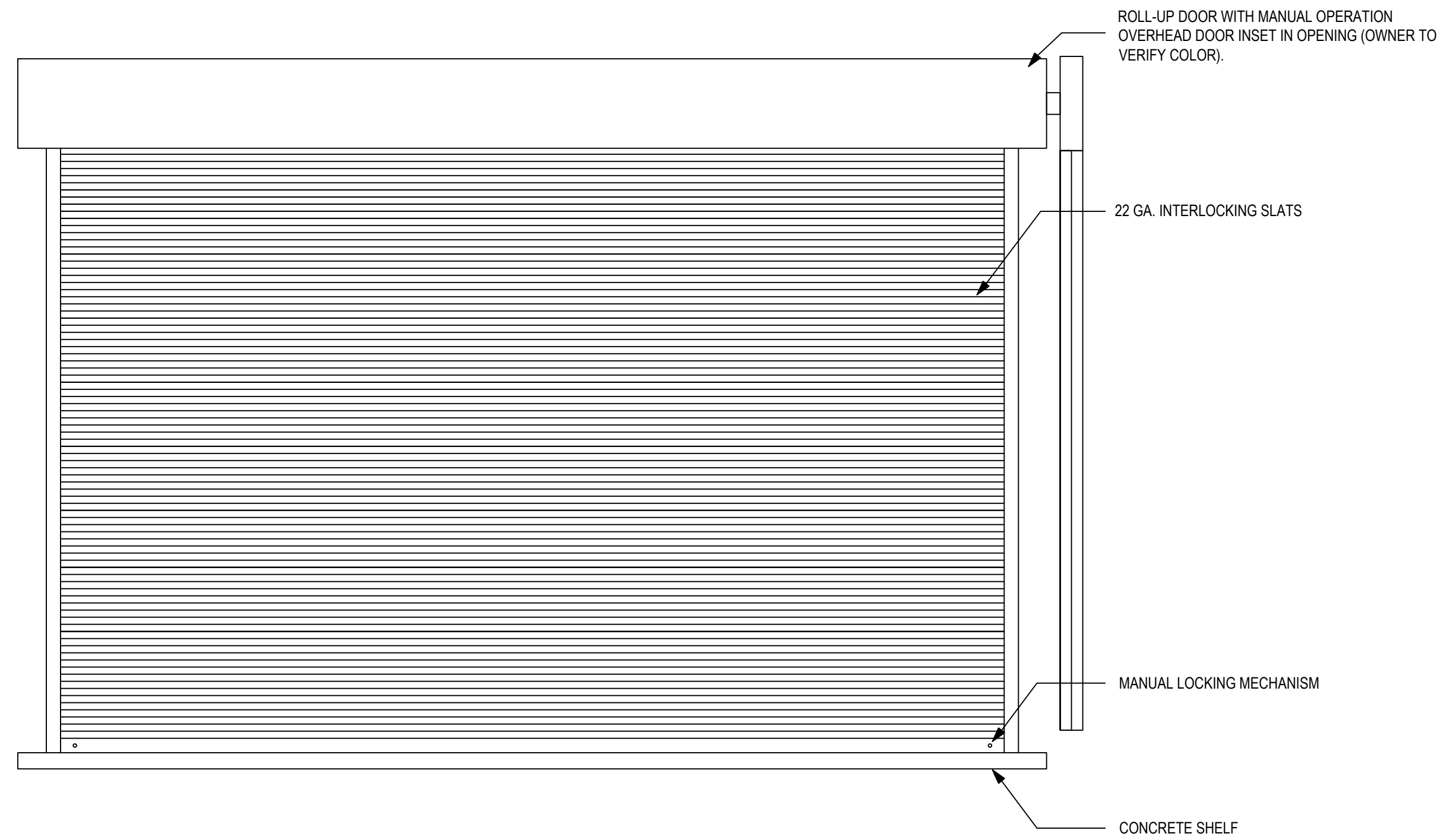
REVISIONS - DISCREPANCIES - DESCRIPTIONS - DATE - DATE OF REVISIONS AND INSULATION CHANGED

1	4/13/2023	ROOF RAFTERS AND INSULATION CHANGED
2		
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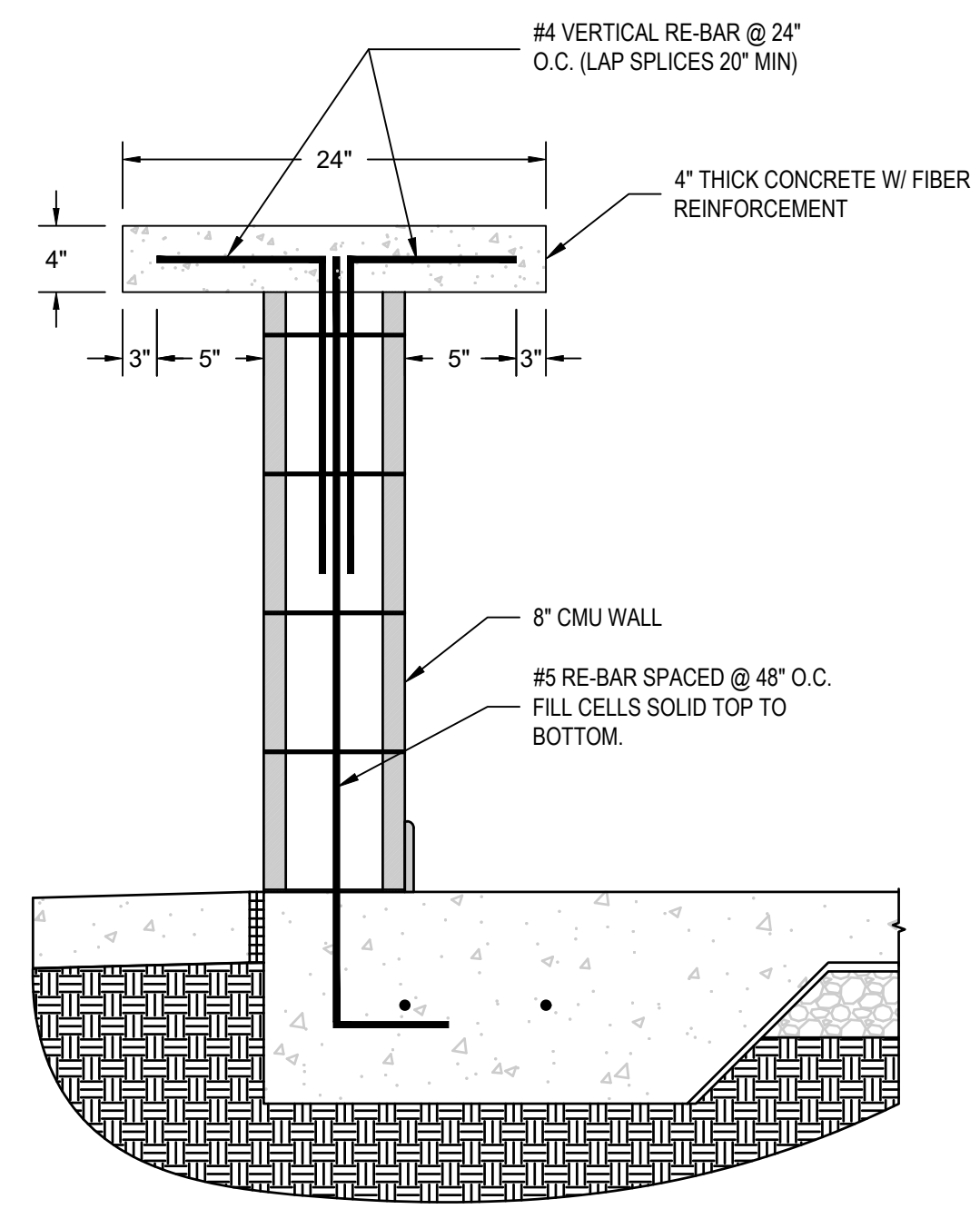
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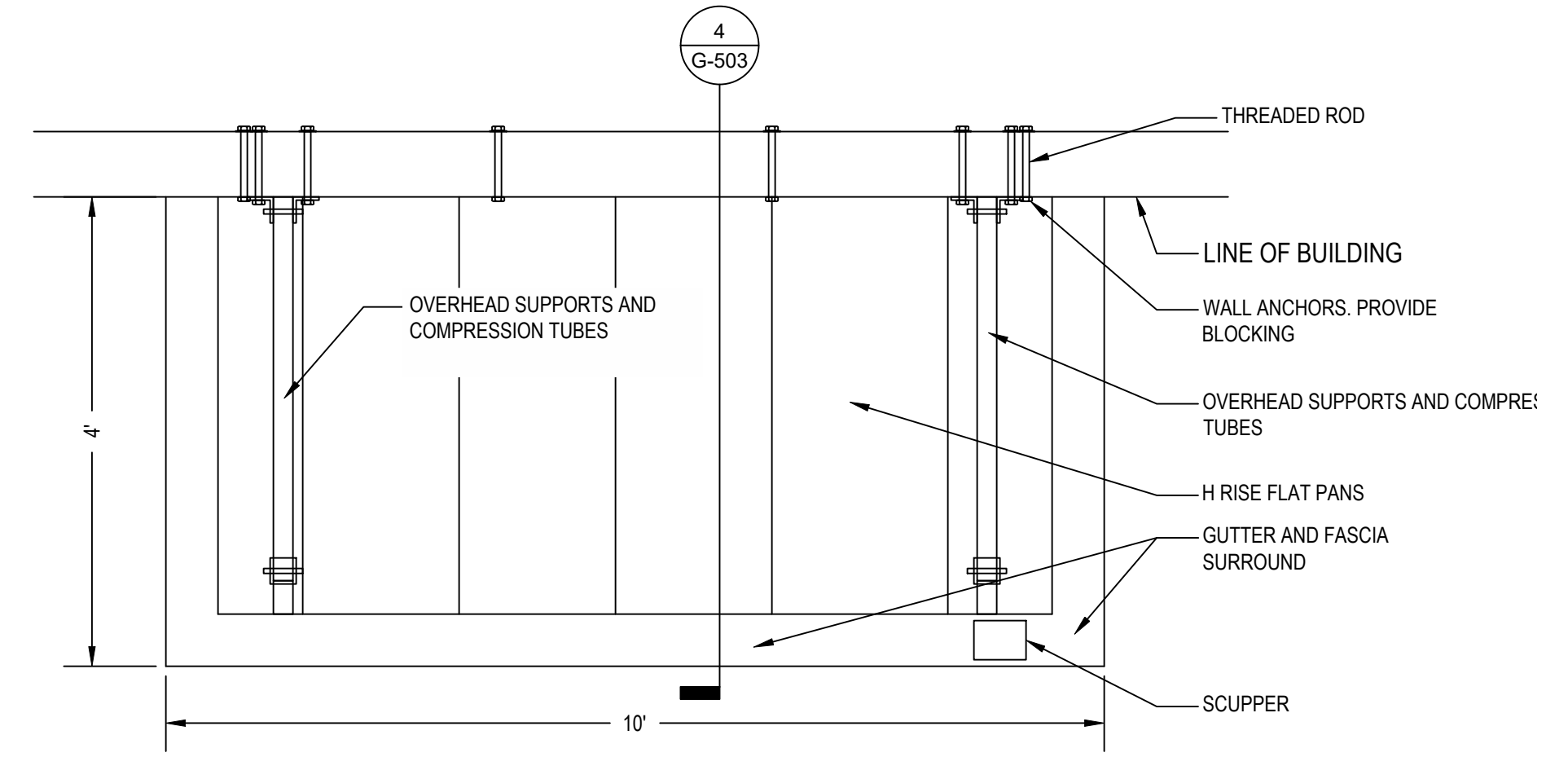
GENERAL DETAILS
 SHEET NUMBER
G-502
 PROJECT# 21-11110



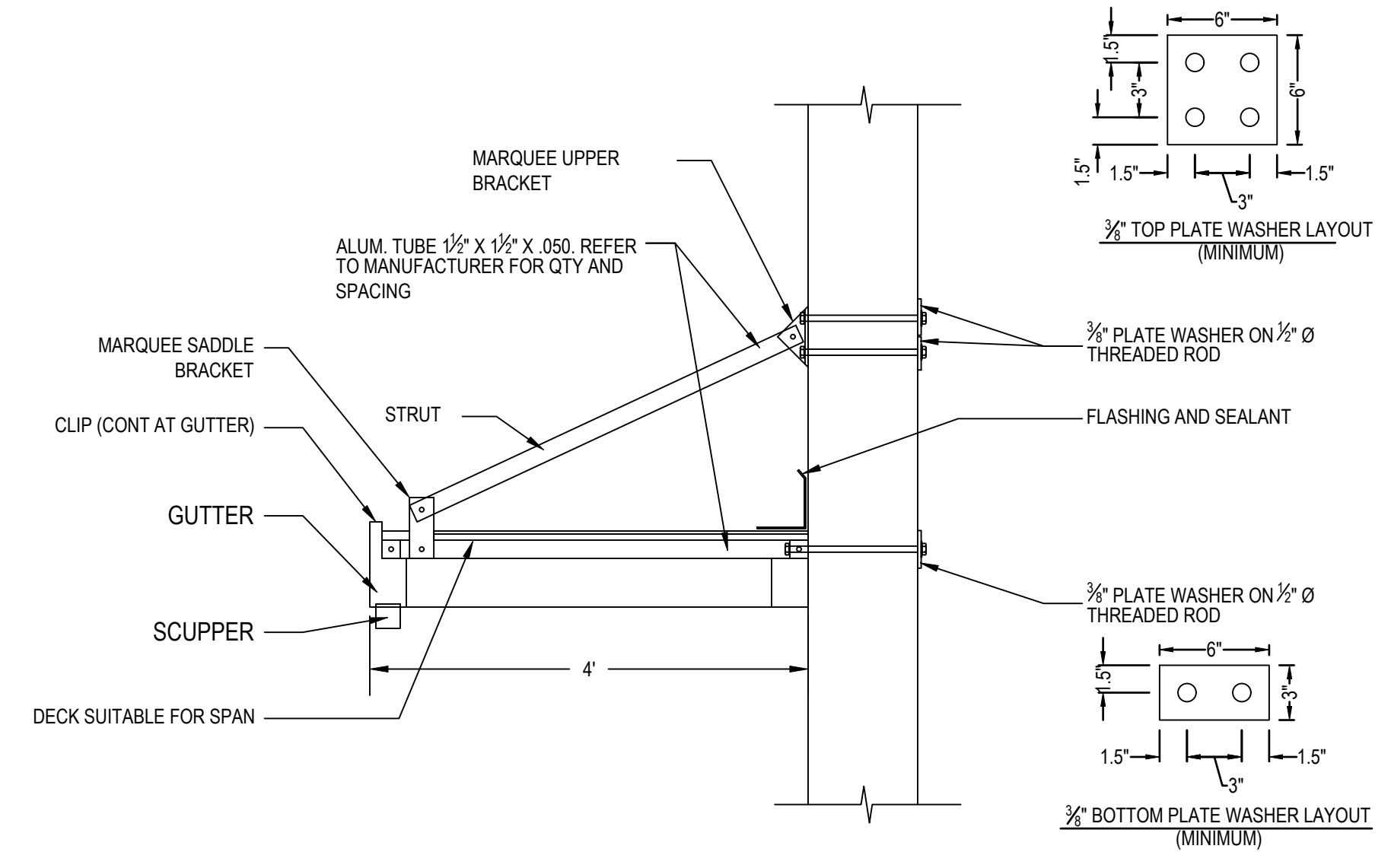
1 ROLL-UP DOOR DETAIL
N.T.S.



2 CONCRETE COUNTERTOP DETAIL
NTS

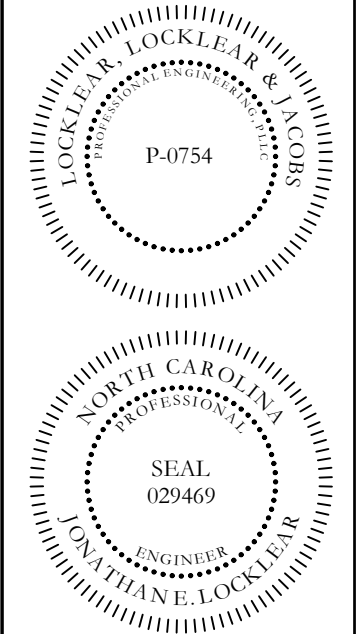
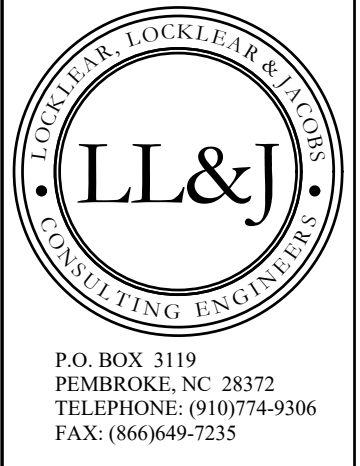


3 CANOPY PLAN
NTS



4 CANOPY SECTION
NTS

CANOPY CONSTRUCTION NOTE: CONTRACTOR TO CONFIRM WITH ENGINEER FINAL CANOPY DIMENSIONS AND MATERIAL TO BE USED BEFORE PURCHASE AND INSTALLATION.



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PROJECT INFORMATION

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SHEET TITLE
GENERAL DETAILS

SHEET NUMBER
G-503
PROJECT# 21-11110

ROOM AND FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	NORTH WALL		SOUTH WALL		EAST WALL		WEST WALL		CEILING		REMARKS	HDW SET	DOOR SIGNAGE	
				MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	HEIGHT			TYPE	NAME
101	WOMEN	CONC	---	MRGWB	P-2	CMU	P-1	CMU	P-1	MRGWB	P-2	GWB	P-2	9'-0"	---	5	---
102	MEN	CONC	---	CMU	P-1	MRGWB	P-2	CMU	P-1	MRGWB	P-2	GWB	P-2	9'-0"	---	5	---
103	CONCESSION	CONC	---	CMU	P-1	CMU	P-1	MRGWB	P-2	CMU	P-1	GWB	P-2	9'-0"	---	3	---
201	MEDIA 1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
202	COACH ROOM 1	LVT-1	RB-1	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	8'-0"	---	---	---
203	PRESS BOX	LVT-1	RB-1	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	8'-0"	---	---	---
204	COACH ROOM 2	LVT-1	RB-1	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	GWB	P-2	8'-0"	---	---	---
205	MEDIA 2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

DOOR SCHEDULE

NO.	DOOR / OPENING						FRAME		DETAILS				REMARKS
	TYPE	MAT'L	WIDTH	HEIGHT	THK.	FIN.	TYPE	MAT'L	HEAD	JAMB(S)	SILL	HDW SET	
101A	D-1	HM	6'-0"	7'-0"	1 3/4"	P	F-1	HM	2/S-102	2/S-102	1/S-103	2	--
102A	D-1	HM	6'-0"	7'-0"	1 3/4"	P	F-1	HM	2/S-102	2/S-102	1/S-103	2	--
103A	D-1	HM	6'-0"	7'-0"	1 3/4"	P	F-1	HM	2/S-102	2/S-102	1/S-103	2	--
201A	D-1	HM	3'-0"	7'-0"	1 3/4"	P	F-1	HM	7/G-502	---	---	2	--
202A	D-2	WD	3'-0"	7'-0"	1 3/4"	P	F-2	HM	2/G-601	3/G-601	---	1	--
203A	D-2	WD	3'-0"	7'-0"	1 3/4"	P	F-2	HM	2/G-601	3/G-601	---	2	--
204A	D-2	WD	3'-0"	7'-0"	1 3/4"	P	F-2	HM	2/G-601	3/G-601	---	1	--
205A	D-1	HM	3'-0"	7'-0"	1 3/4"	P	F-1	HM	7/G-502	---	---	2	--

ABBREVIATIONS LEGEND

---	NONE OR NOT APPLICABLE
CONC	SEALED CONCRETE
GWB	GYPSUM WALL BOARD
HM	HOLLOW METAL
LVT	LUXURY VINYL TILE
MRGWB	MOISTURE RESISTANT GYPSUM WALL BOARD
P	PAINTED
RB	RESILIENT BASE
TIG	TEMPERED INSULATED GLASS

DOOR HARDWARE SCHEDULE

HW SET #1	OFFICE - STC 49
1	OFFICE FUNCTION LOCKSET, BEST 45H7A-16H - 626
1	SURFACE-MOUNTED CLOSER, DORMA 8616 AF86 626
1	WALL STOP, ROCKWOOD
1	THRESHOLD, NGP 412

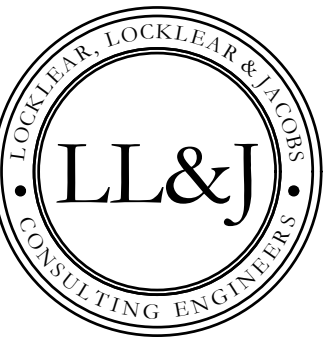
HW SET #2	TYPICAL EXTERIOR DOOR
1.5 PR	HEAVY DUTY HINGES, HAGER BB1168 USP 4 1/2" X 4 1/2"
1	MEDIUM STILE EXIT DEVICE, DORMA 9300-08
1	SURFACE-MOUNTED CLOSER, DORMA 8616 AF86P 626
1 SET	WEATHERSTRIPPING, NGP 155V
1	DOOR SWEEP, NGP 101VA
1	THRESHOLD, NGP 426E

MATERIALS LEGEND

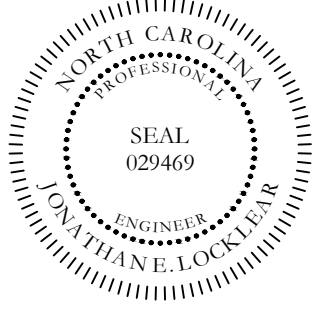
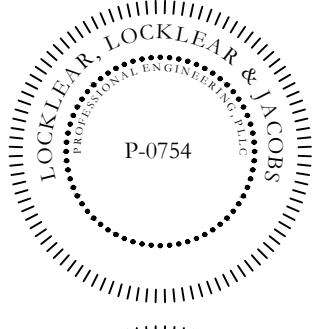
CEILING	
GWB	GYPSUM BOARD
FLOORING	
CONC	SEALED CONCRETE
LVT-1	ARMSTRONG, NATURAL CREATIONS COMMERCIAL COLLECTION, COLOR (TBD BY OWNER).
BASE	
RB-1	ARMSTRONG, 4" HIGH COVE CONTINUOUS ROLL, COLOR (TBD BY OWNER).
WALLS	
P-1	SHERWIN WILLIAMS - LOXON MASONRY TOPCOAT (OR SIMILAR), COLOR (TBD BY OWNER).
P-2	SHERWIN WILLIAMS - EMERALD DESIGNER EDITION INTERIOR LATEX PAINT (OR SIMILAR), COLOR TBD BY OWNER.
DOORS	
P-3	SHERWIN WILLIAMS - FLEXTMP EXTERIOR ACRYLIC LATEX PAINT (OR SIMILAR), COLOR (TBD BY OWNER).

REMARKS LEGEND

- HOLLOW METAL DOORS & FRAMES TO BE PAINTED TO MATCH HARNETT CENTRAL SCHOOL COLORS.
- FRAMES AND DOORS ARE TO BE GALVANIZED.
- VON DUPRIN 22 PANIC BAR EXIT DEVICE WITH NIGHT LATCH 230NL TRIM.
- KEYING BY HCS.



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PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
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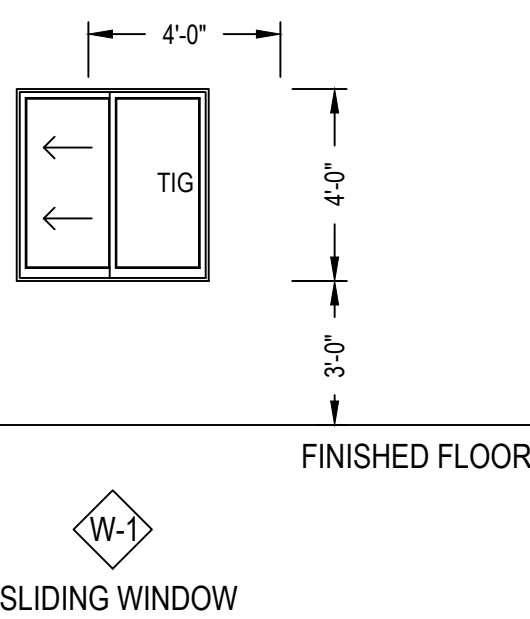
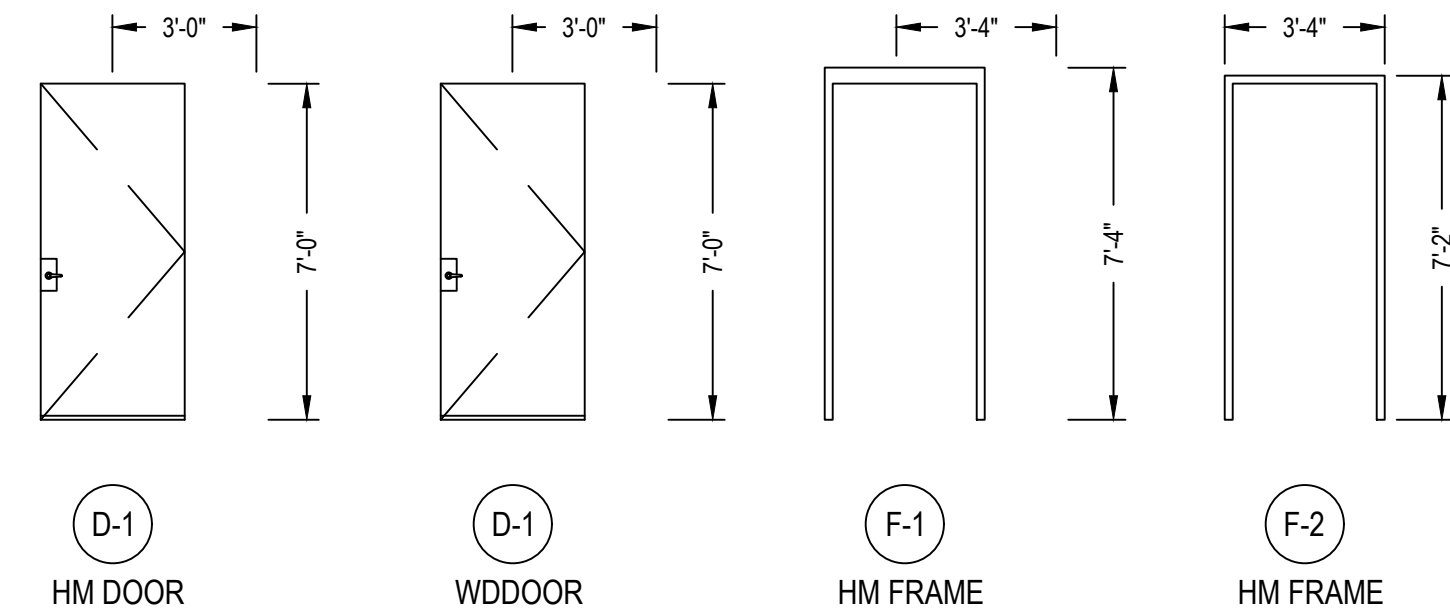
DATE: 12/2/2022
DRAWN BY: RDH
CHECKED BY: RL
SHEET TITLE:

ROOM FINISH SCHEDULE

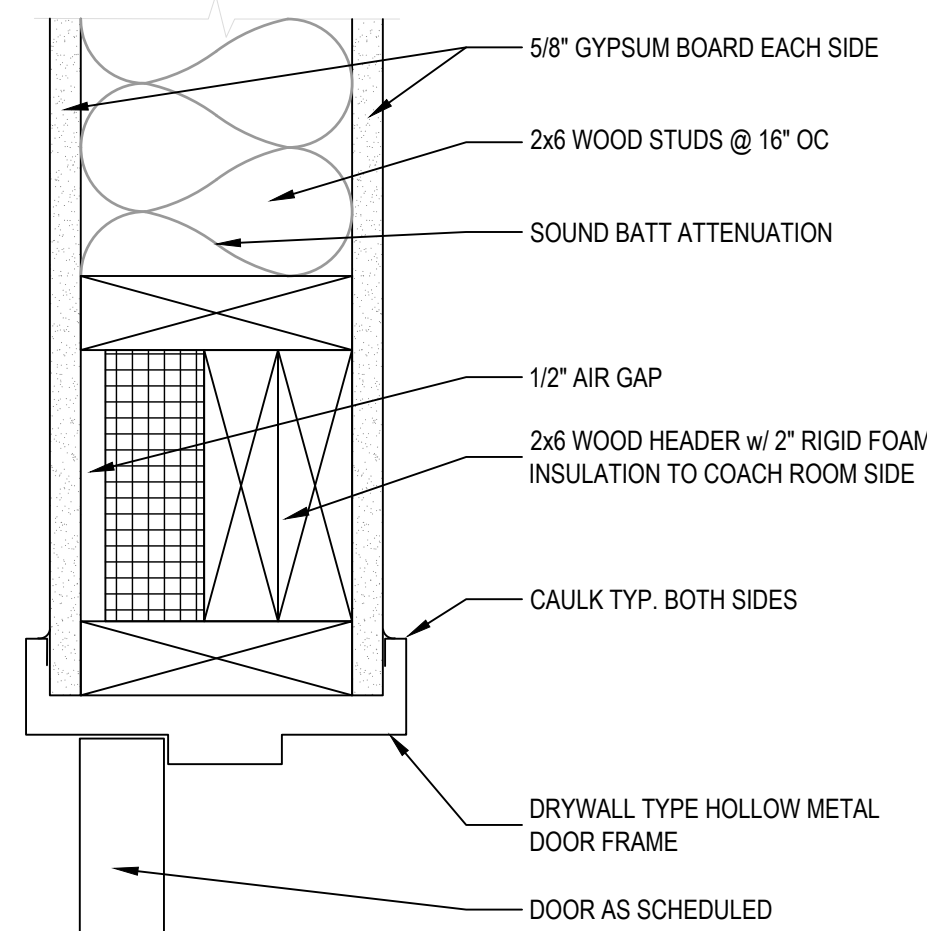
SHEET NUMBER

G-601

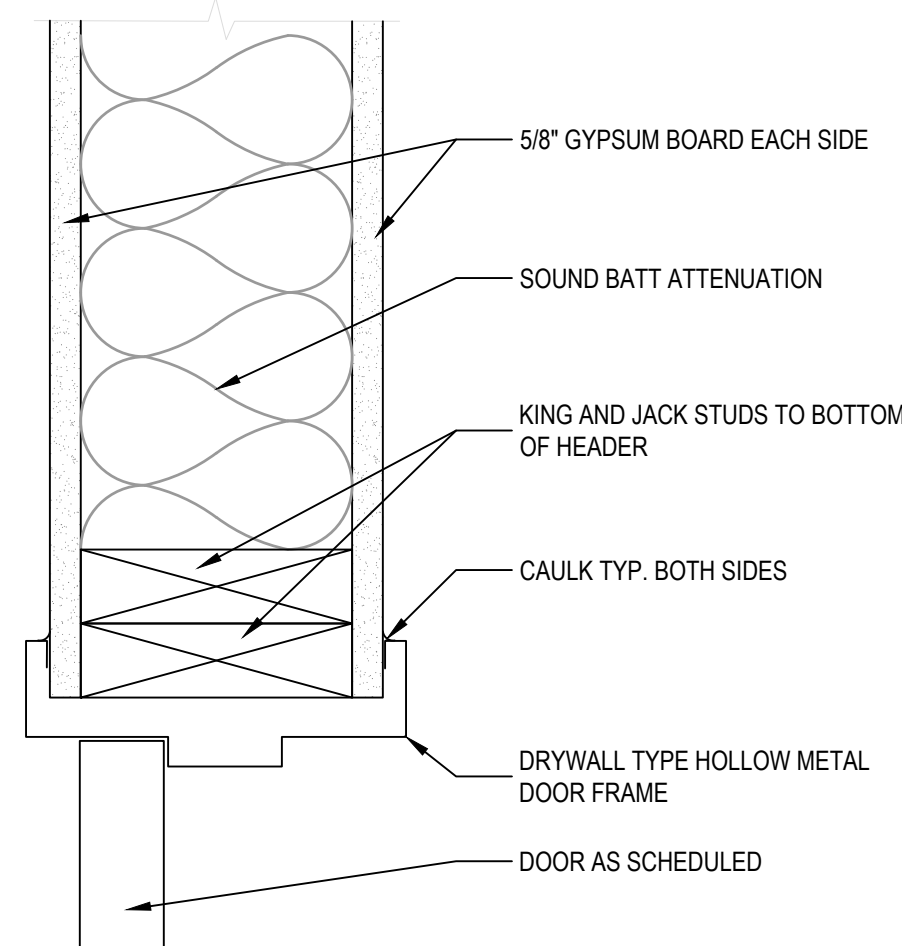
PROJECT# 21-11110



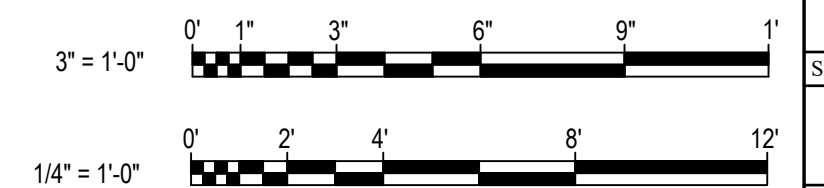
1 DOOR AND WINDOW ELEVATIONS
1/4" = 1'-0"



2 TYPICAL INTERIOR FRAME HEAD
3" = 1'-0"

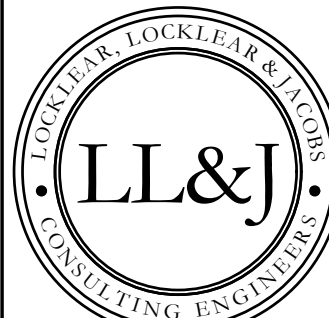


3 TYPICAL INTERIOR FRAME JAMB
3" = 1'-0"

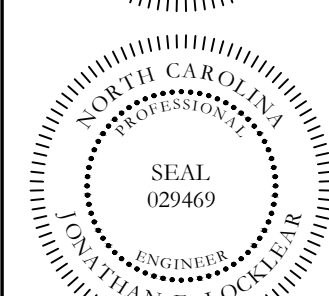
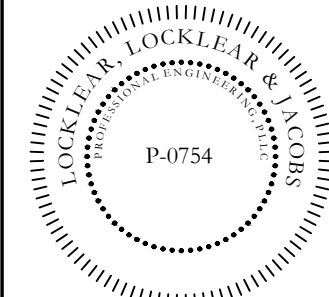


STRUCTURAL NOTES

GENERAL NOTES: 1. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS. ALL DIMENSIONS SHOWN ARE FOR REPRESENTATION ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION AND ALL REQUIRED CLEARANCES. VERIFY ALL EXISTING CONDITIONS, DIMENSIONS AND ELEVATIONS BEFORE STARTING WORK. NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCY. 2. DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. FOR DETAILS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN. 3. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. 4. COORDINATE STRUCTURAL CONTRACT DOCUMENTS WITH GENERAL, MECHANICAL, ELECTRICAL, PLUMBING AND CIVIL. NOTIFY CONTRACTING OFFICER OF ANY CONFLICT AND/OR OMISSION. CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS WITHOUT WRITTEN APPROVAL OF THE CONTRACTING OFFICER. FOR ADDITIONAL OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS, SEE GENERAL, MECHANICAL AND PLUMBING DRAWINGS. 5. REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE CONTRACTING OFFICER DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL TO THE CONTRACTING OFFICER. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES OF CONSTRUCTION. 6. ANY BRAND SPECIFIC EQUIPMENT/MATERIALS MAY BE SUBSTITUTED W/ AN EQUIVALENT PRODUCT BY AN ALTERNATE MANUFACTURER IF APPROVED BY THE ENGINEER OF RECORD, UNO. 7. THICKENED SLAB LOCATIONS SHALL BE FIELD VERIFIED/LOCATED BELOW FINAL ANCHOR BOLT LOCATIONS. ANCHOR BOLTS SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS. 8. ALL OPENINGS IN THE EXTERIOR BUILDING ENVELOPE SHALL BE SEALED AGAINST AIR INFILTRATION.



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STRUCTURAL ABBREVIATIONS

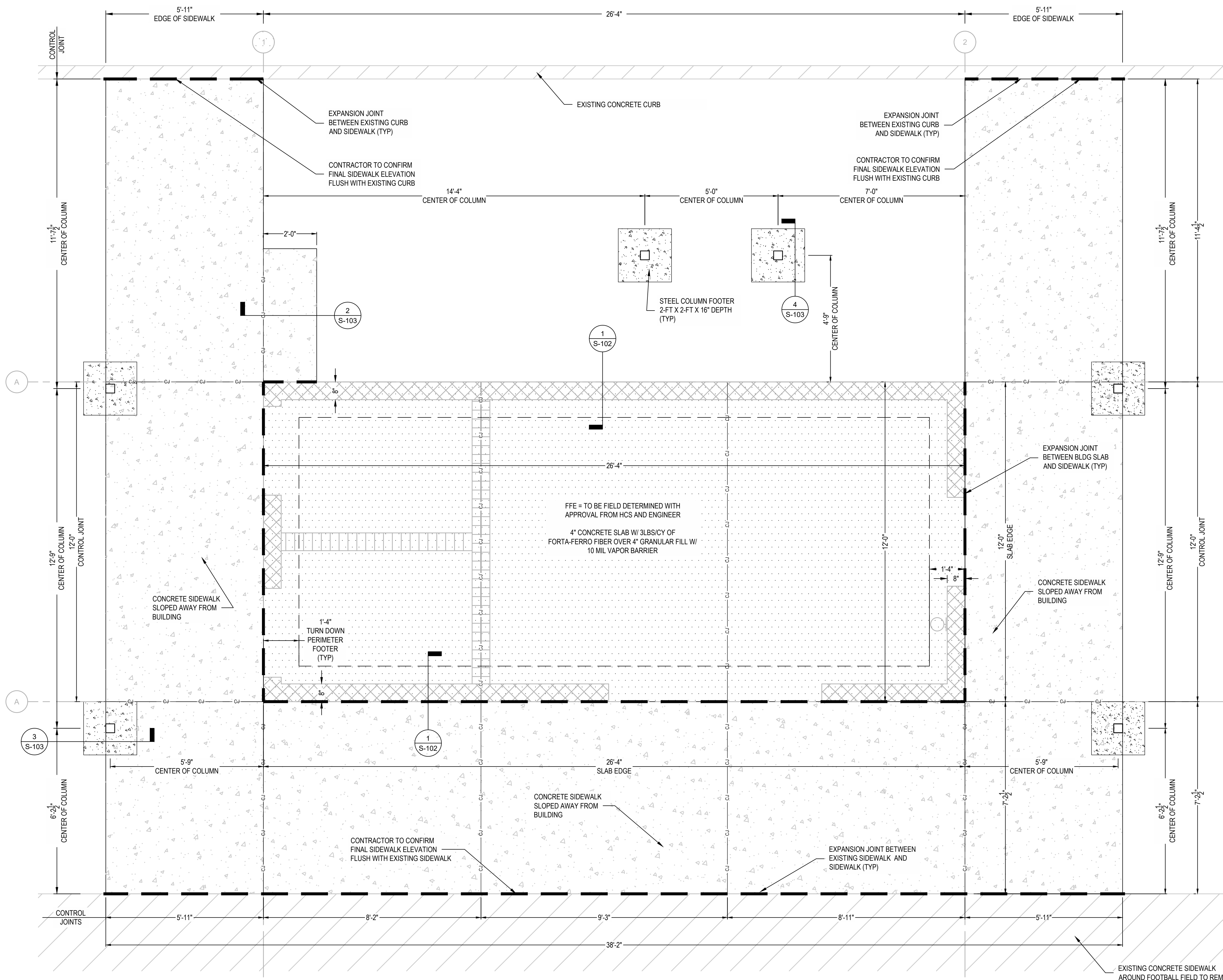
Table with columns for abbreviations and their corresponding full names. Includes categories like ARCHITECT/ENGINEER, FINISH FLOOR, INCLUDED, MICRO-LAMINATED, TEMPORARY, DETAIL INDICATOR, SECTION SYMBOL, ELEVATION SYMBOL, STRUCTURAL GRID, LEVEL TAG, AREA OF REVISION AND REVISION NUMBER, and KEY NOTE.

SYMBOL LEGEND

Table with columns for SYMBOL and DESCRIPTION. Includes symbols for detail indicators, section symbols, elevation symbols, structural grids, level tags, and key notes.

Table with columns for REVISION DATE and DESCRIPTION. Includes a grid for tracking revisions.

DATE: 12/2/2022
DRAWN BY: CKD
CHECKED BY: JEL
SHEET TITLE: STRUCTURAL NOTES AND ABBREVIATIONS
SHEET NUMBER: S-001
PROJECT#: 21-1110



GRADING NOTES:

1. FINISH FLOOR ELEVATION SHALL BE FIELD DETERMINED BASED ON EXISTING GRADES AND DESIRED STORMWATER RUNOFF PATTERNS.
2. CONTRACTOR SHALL WORK WITH OWNER AND ENGINEER TO ESTABLISH FINAL SLOPES AND GRADING PATTERNS FOR STORMWATER RUNOFF AROUND THE BUILDING.

FILL NOTE

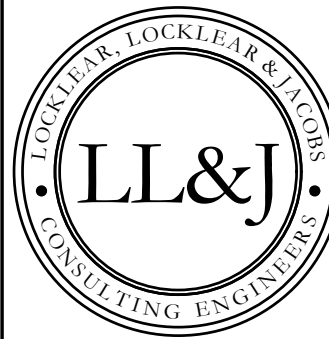
ALL FILL SHALL BE PLACED IN 6"-8" UN-COMPACTED LIFTS (MAXIMUM) AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR). THE MOISTURE CONTENT OF FILL AT TIME OF PLACEMENT SHALL BE WITHIN +/- 3% OF THE OPTIMUM MOISTURE CONTENT DETERMINED IN THE LABORATORY. COMPACTED FILL SUB-GRADES WITH A SLOPE GREATER THAN 4H:1V SHALL BE BENCHED TO ALLOW PLACEMENT OF HORIZONTAL LIFTS.

CONCRETE NOTES:

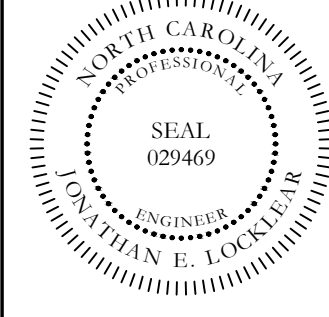
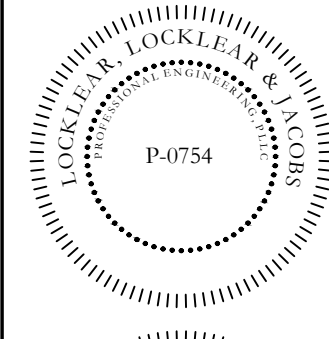
1. A CONTINUOUS TURNED DOWN SLAB FOOTING SHALL BE USED TO SUPPORT THE BUILDING WALLS. THE FOOTING SHALL BE 16-INCHES WIDE AND SHALL BE A MINIMUM OF 12-INCHES DEEP.
2. ALL SIDEWALKS SHALL BE A MIN. OF 4-INCH THICK AND SHALL HAVE EXPANSION JOINTS LOCATED AT ALL LOCATION ADJACENT TO EXISTING SIDEWALKS, CURBS AND PROPOSED BUILDING.
3. ALL CONCRETE SHALL HAVE FORTA-FERRO FIBER AT 3LBS/YD MIXED AT THE PLANT PER MANUFACTURERS RECOMMENDATION.
4. CONCRETE FINISHES:
 - 4.1. SIDEWALKS - BROOM
 - 4.2. INTERIOR SLAB - SMOOTH AND SEALED WITH ARDEX MOISTURE TREATMENT
 - 4.3. NOTE: ALL FIBER PROTRUDING OUT OF CONCRETE AFTER FINISH AND CONCRETE HAS CURED SHALL BE REMOVED FROM THE SURFACE VIA BURNING OR OTHER NON-DESTRUCTIVE METHOD.
5. ALL BACKFILL AND SOIL BELOW SLABS AND FOOTINGS MUST BE COMPACTED TO 2000 PSF MIN.
6. CONTRACTOR TO CONFIRM FOOTERS ARE BELOW FROST LINE. THE MINIMUM DEPTH OF FOOTINGS BELOW THE UNDISTURBED GROUND SURFACE SHALL BE 12 INCHES.
7. MASONRY UNITS SHALL BE INSTALLED WITH TYPE "M" OR "S" MORTAR.
8. ALL DETAILING, FABRICATION AND PLACEMENT OF REINFORCING STEEL, FORM WORK, MIXING, HANDLING, PLACING, FINISHING AND CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILED REINFORCED CONCRETE STRUCTURES" (ACI-315) AND ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI-318).
9. CONCRETE SHALL CONFORM TO ASTM C94. MINIMUM STRENGTH AT 28 DAYS SHALL BE 3000 PSI. MAXIMUM WATER TO CEMENT RATIO SHALL BE 0.60 WITH MAXIMUM SLUMP OF 4 INCHES. MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4 INCH AND ALL AGGREGATES SHALL CONFORM TO ASTM C33.
10. EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH AIR CONTENT TO BE BETWEEN 5 AND 7 PERCENT BY VOLUME.
11. ALL REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ASTM A615 (S1), NEW BILLET STEEL DEFORMED BARS, GRADE 60. UNLESS NOTED OTHERWISE, ALL REINFORCING BAR SPLICES SHALL BE ACI CLASS B TENSION LAP SPLICES. REBAR LAPS SHALL BE A MINIMUM OF 24".
12. THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT NEAREST THE DESCRIBED SURFACE, UNLESS NOTED OTHERWISE:
 - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3 INCHES
 - B. CONCRETE CAST NOT EXPOSED TO EARTH OR WEATHER: 1 1/2 INCHES
 - C. CONCRETE EXPOSED TO EARTH OR WEATHER:
 - i. #6 OR LARGER BARS: 2 INCHES
 - ii. #5 OR SMALLER BARS: 1 1/2 INCHES

COLUMN FOOTER NOTES

1. ALL COLUMN SUPPORT FOOTERS SHALL BE 2-FT X 2-FT X 16-INCH DEPTH.
2. ALL COLUMN FOOTERS SHALL BE CENTER UNDER COLUMNS.
3. ALL COLUMN FOOTERS REQUIRE #5 REBAR @ 18 O/C EACH WAY, TOP AND BOTTOM.



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PROJECT INFORMATION

REV#	DATE	DESCRIPTION
1		
2		
3		
4		
5		

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DATE: 12/2/2022
DRAWN BY: CKD
CHECKED BY: JEL
SHEET TITLE

FOUNDATION PLAN

SHEET NUMBER
S-101
PROJECT# 21-1110

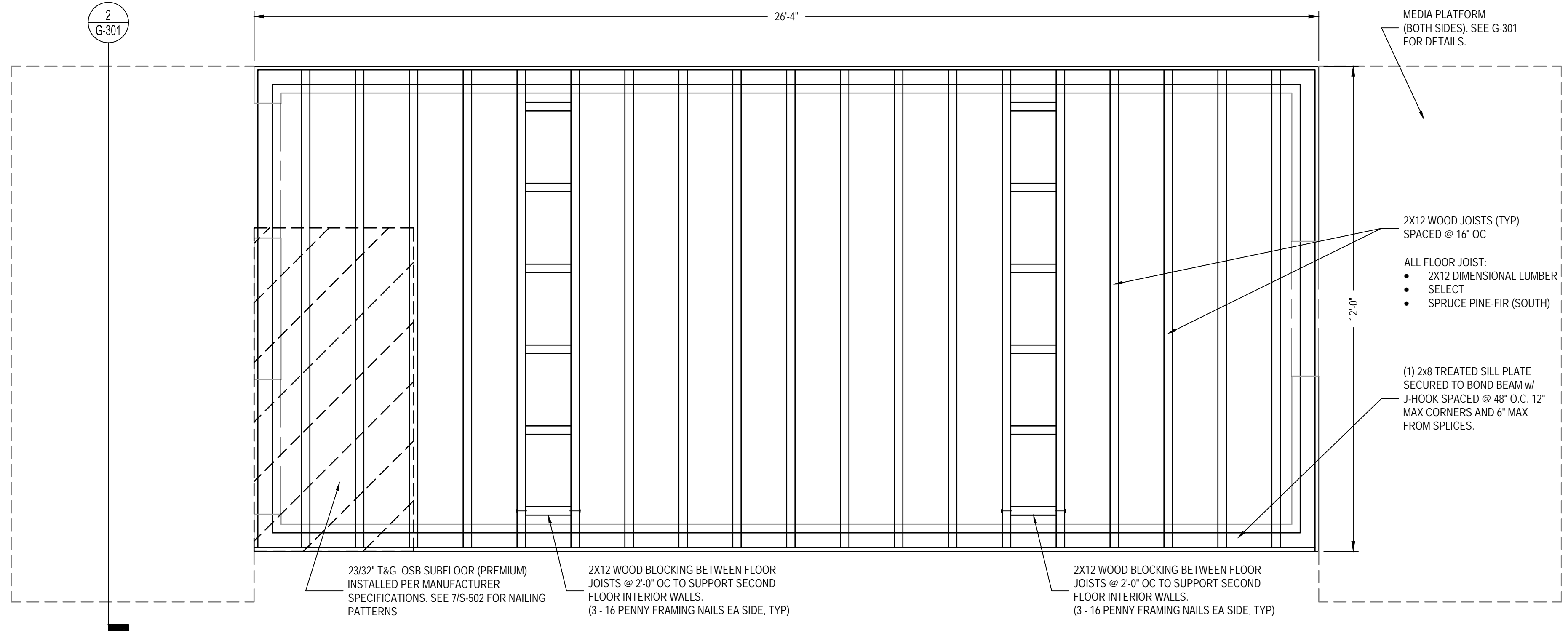
1 FOUNDATION PLAN
SCALE: 1/2" = 1'-0"

PLAN NORTH
ACTUAL NORTH

Know what's below.
Call before you dig.

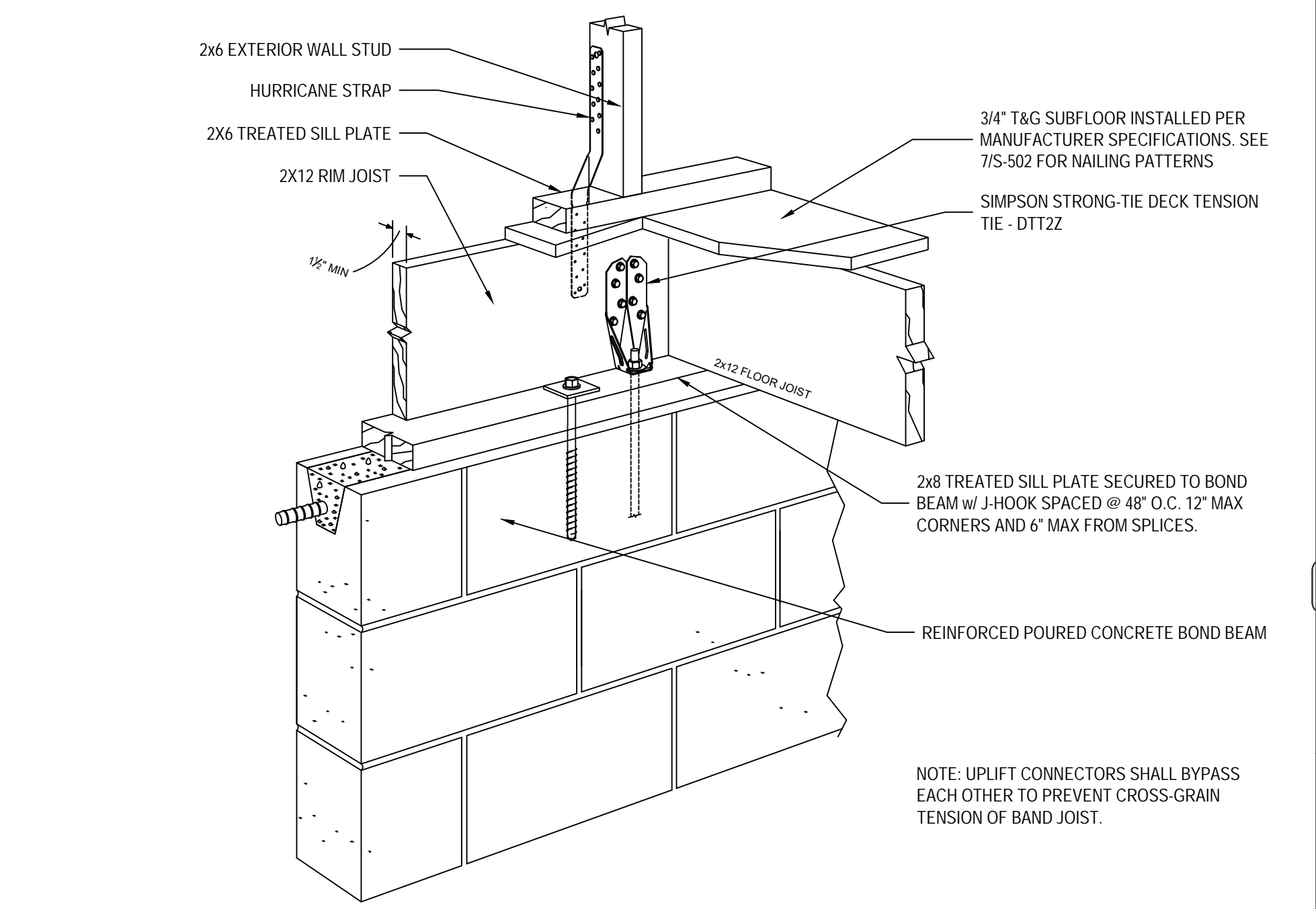
1/2" = 1'-0"

Printed: Thu 13-Apr-2023 - 01:18PM

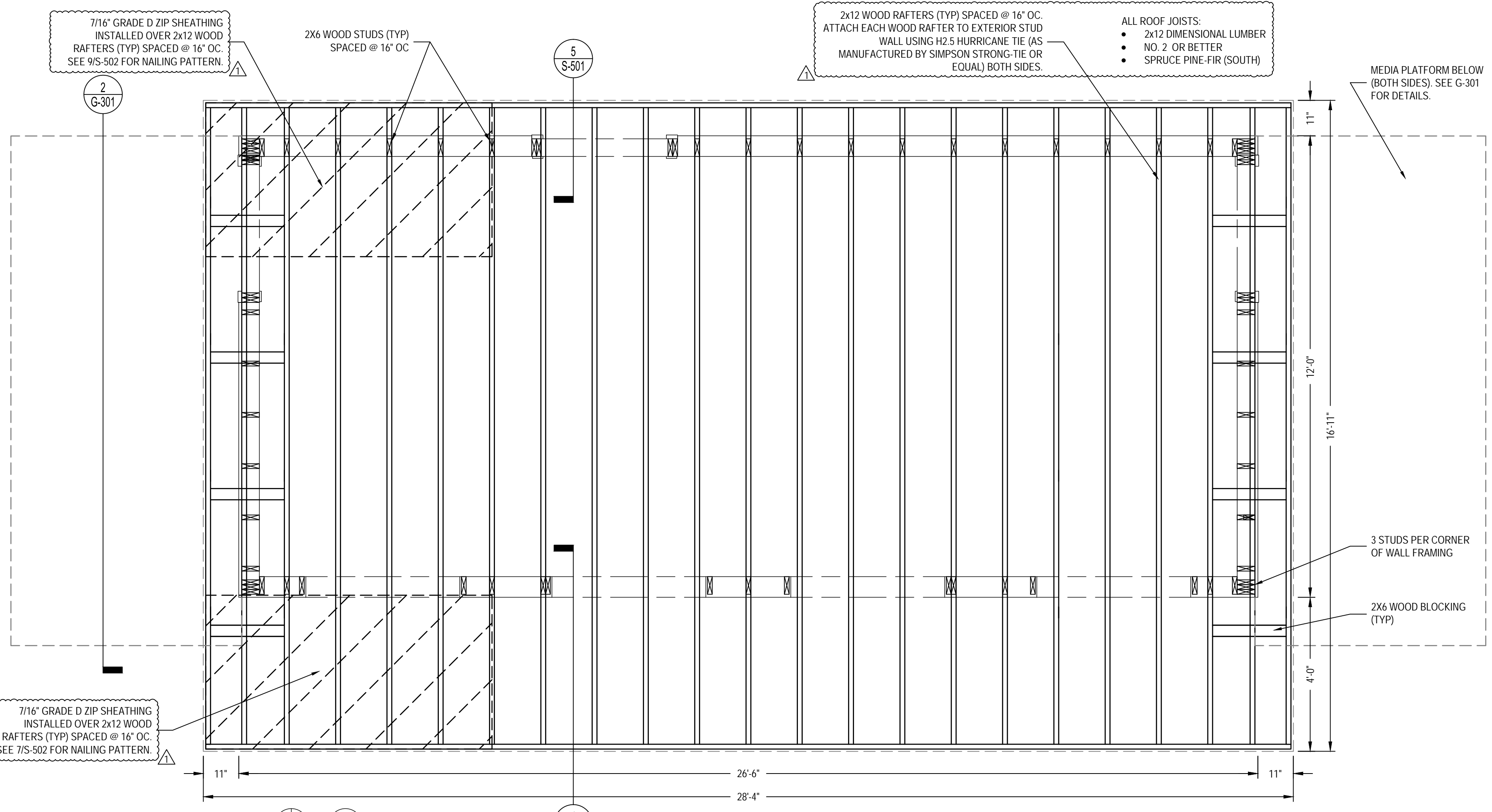


1 SECOND FLOOR FRAMING PLAN
 1/2" = 1'-0"

PLAN NORTH ACTUAL NORTH

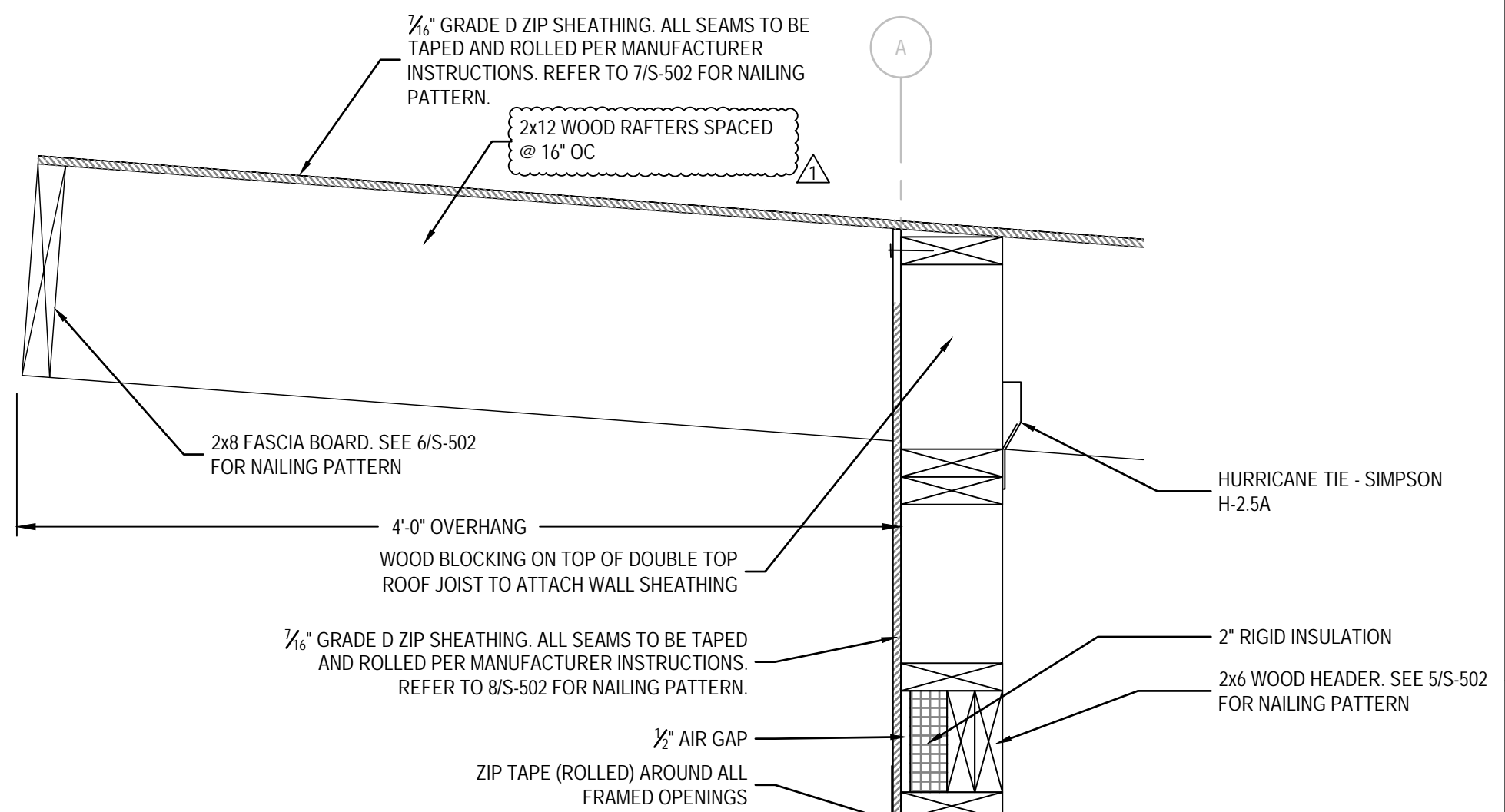


2 FLOOR FRAMING DETAIL
 N.T.S.

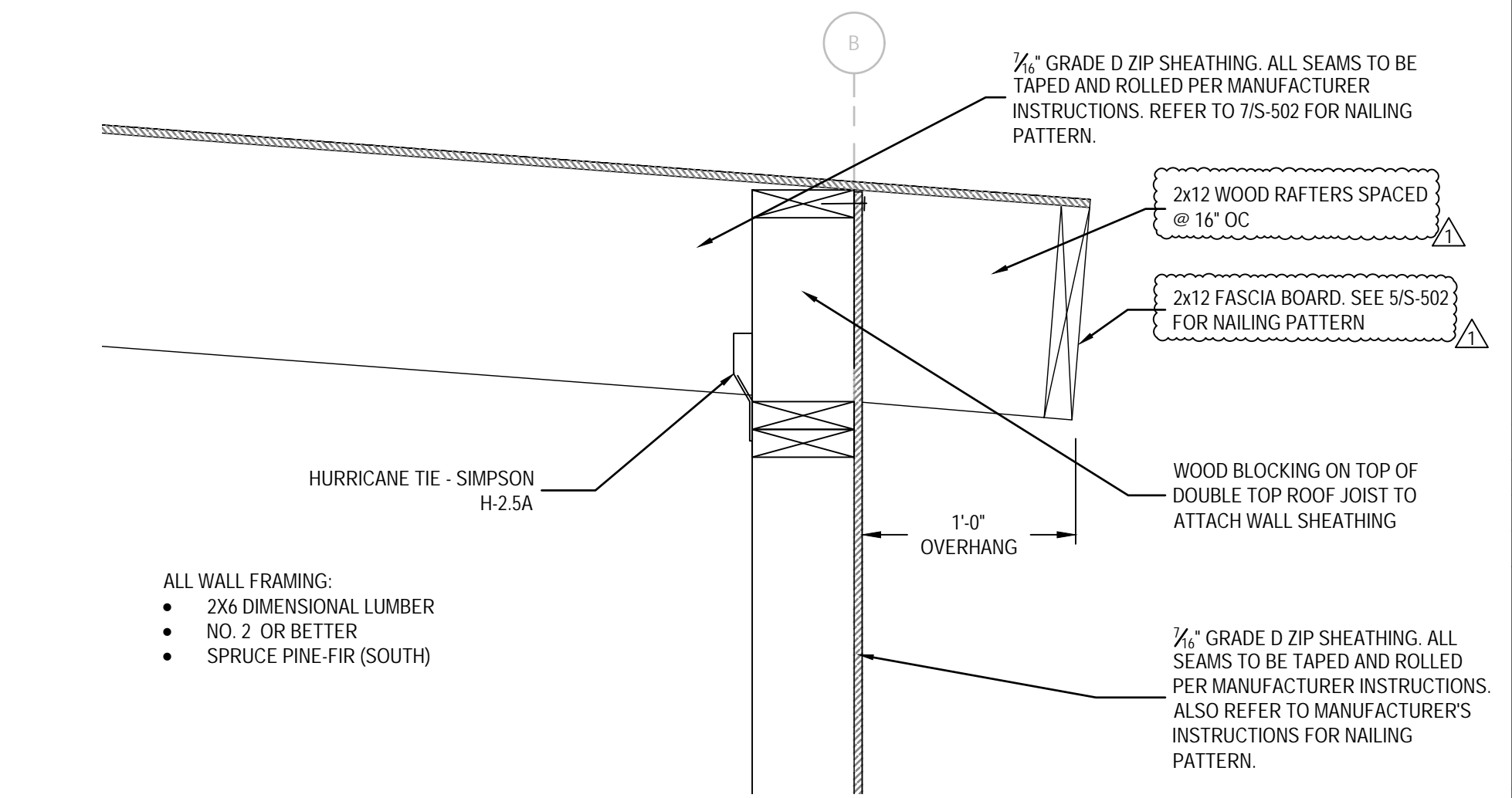


3 ROOF FRAMING PLAN
 1/2" = 1'-0"

PLAN NORTH ACTUAL NORTH



4 ROOF OVERHANG DETAIL
 SCALE: 1 1/2" = 1'-0"



5 ROOF OVERHANG DETAIL
 SCALE: 1 1/2" = 1'-0"

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LOCKLEAR & LOCKLEAR CONSULTING ENGINEERS

P-0754

Professional Engineer Seal for Jonathan E. Locklear, No. 029469, State of North Carolina, dated 4/13/2023.

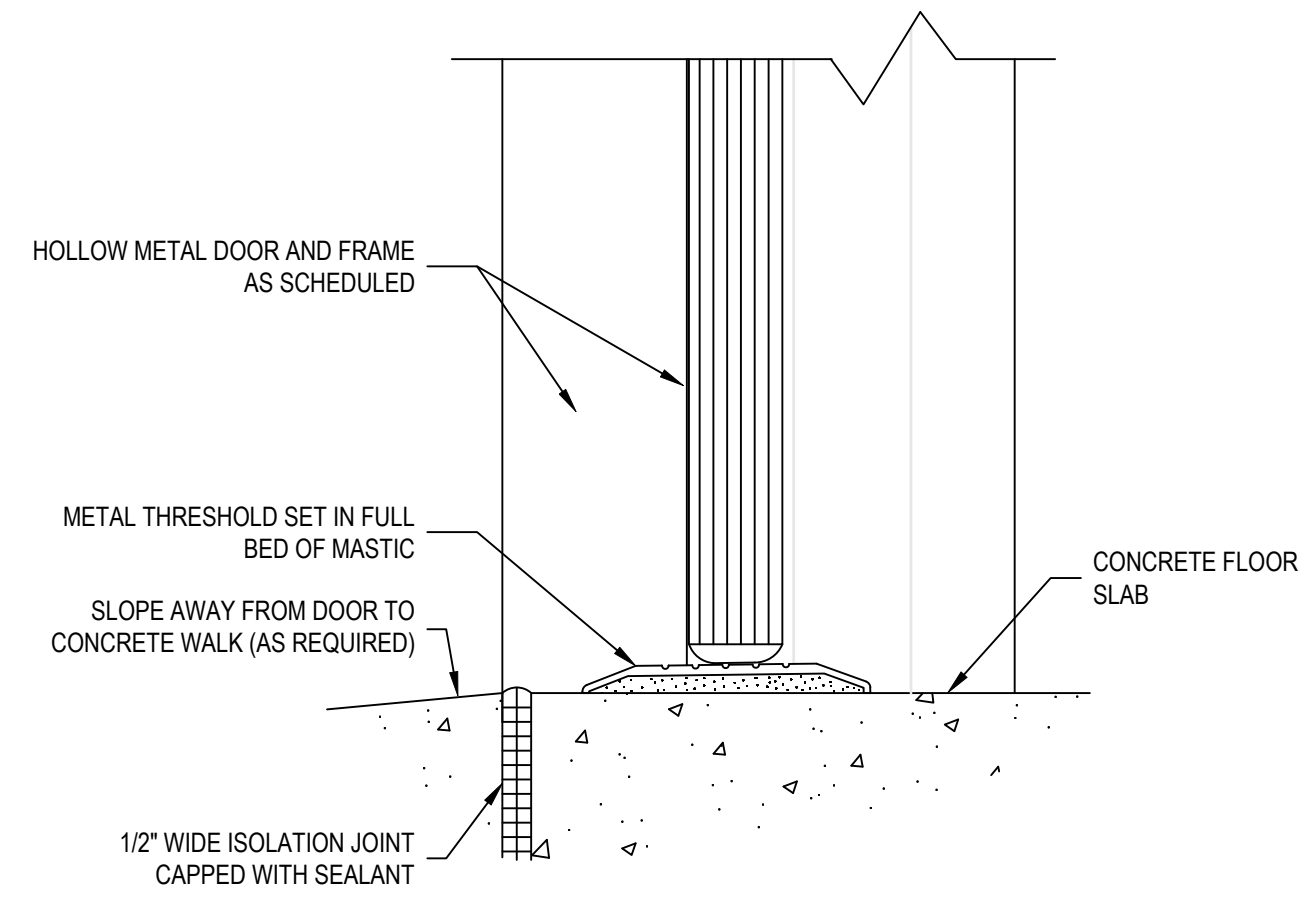
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PROJECT INFORMATION:

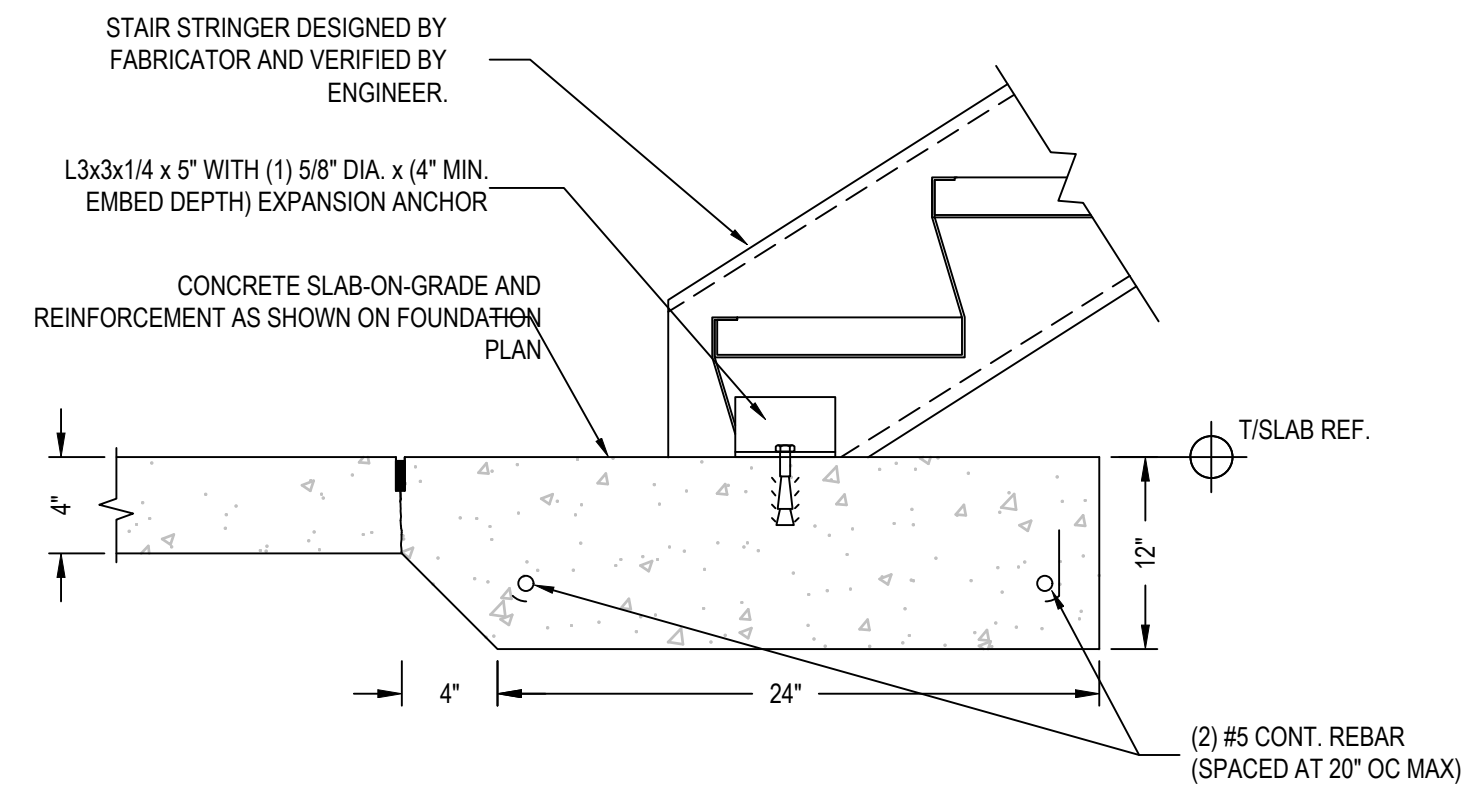
REVISION	DATE	DESCRIPTION
1	4/13/2023	ROOF RAFTERS AND INSULATION CHANGED

DATE: 1/10/2023
 DRAWN BY: CKD
 CHECKED BY: JEL
 SHEET TITLE: FRAMING PLAN
 SHEET NUMBER: S-102
 PROJECT#: 21-1110

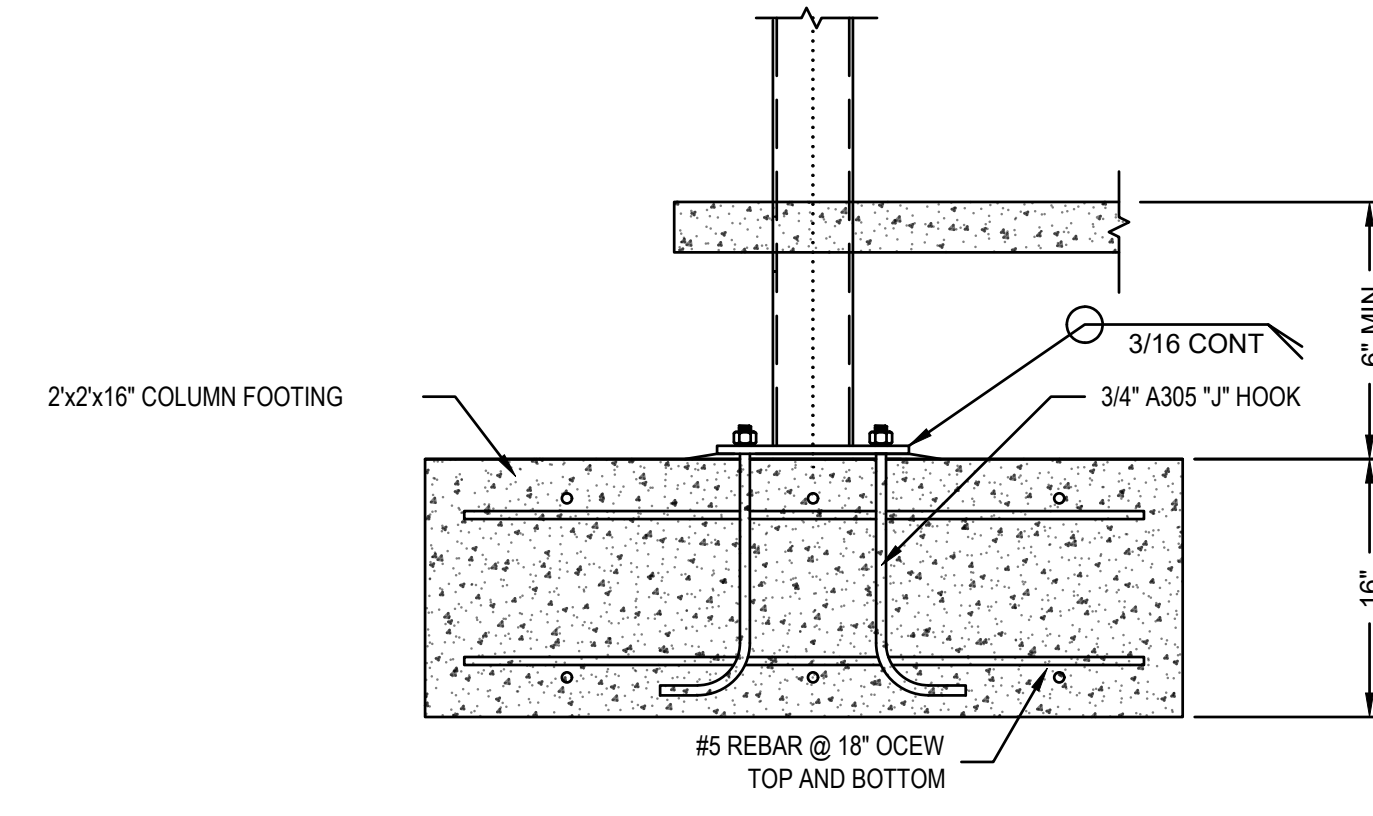
C:\Users\CARLOS\AppData\Local\Temp\Publi..._22680\21-1110 Harnett Central Press Box.dwg, S-102 FRAMING PLAN, Carlos-LL&L



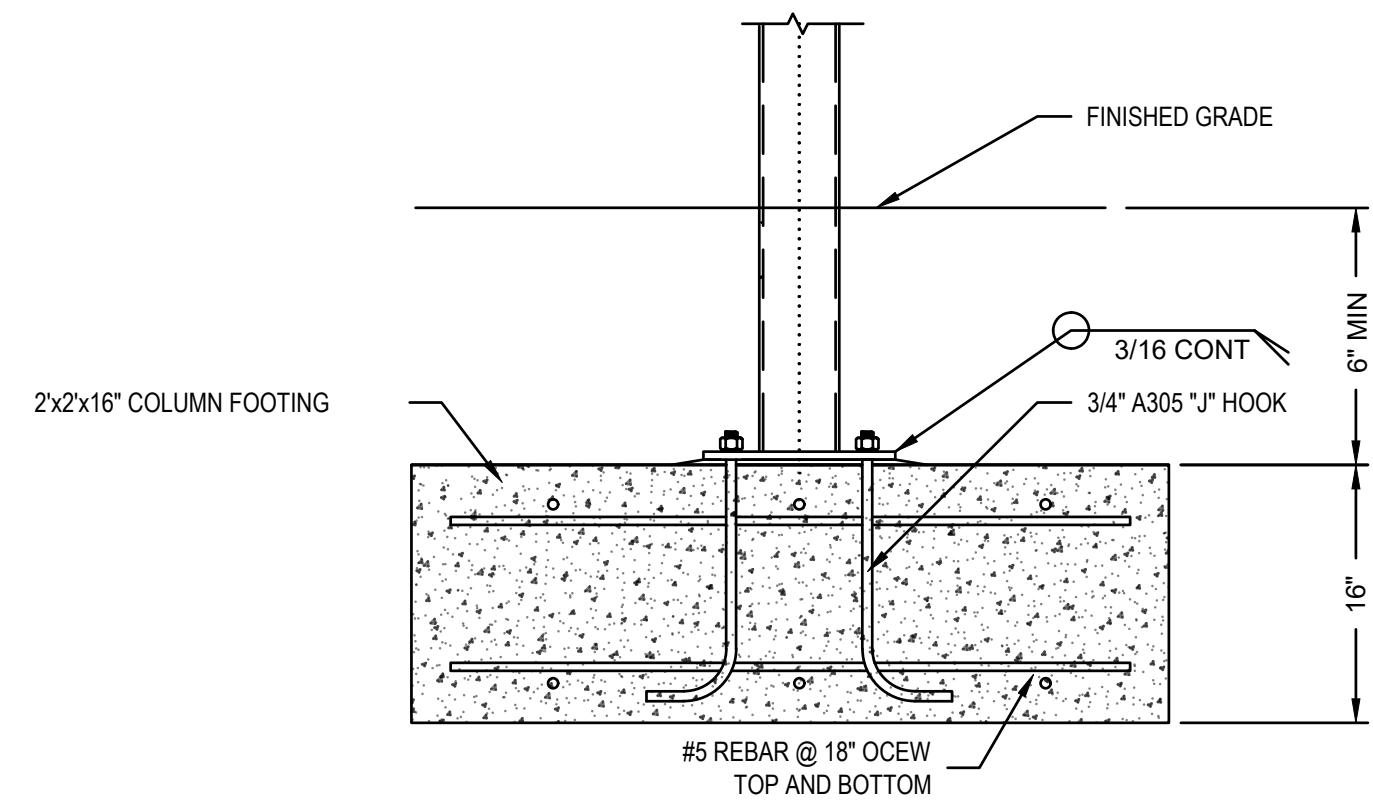
1 **SILL AT EXTERIOR DOOR**
NTS



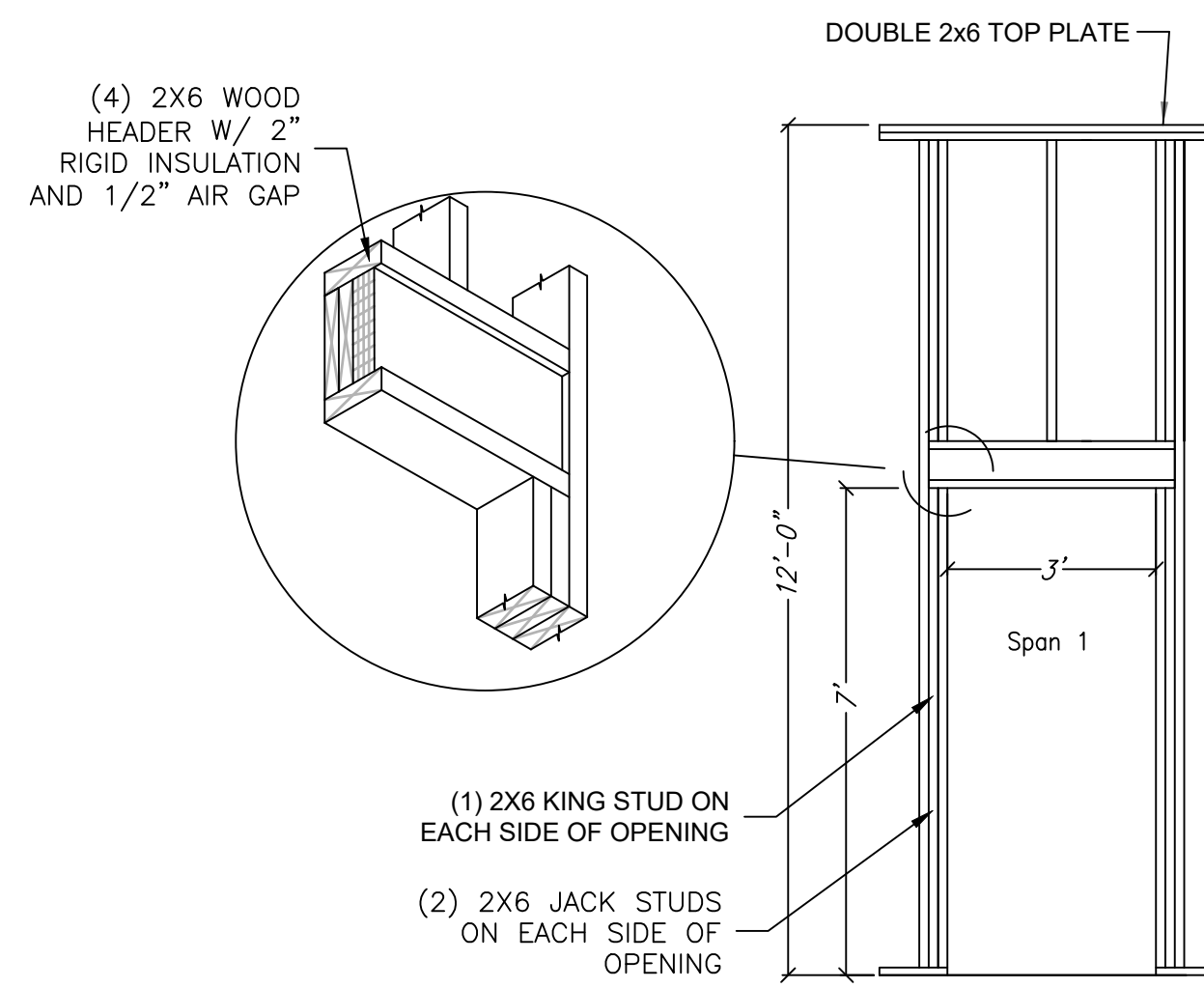
2 **THICKENED SLAB ON GRADE UNDER STEEL STAIRS DETAIL**
NTS



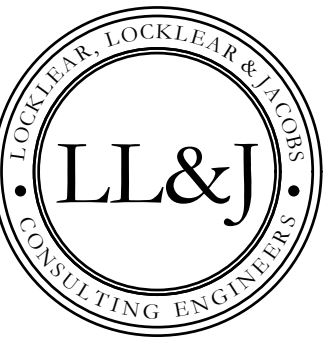
3 **STEEL COLUMN FOOTER DETAIL**
NTS



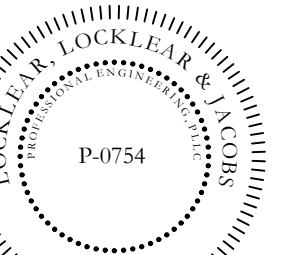
4 **STEEL COLUMN FOOTER DETAIL**
NTS



5 **TYPICAL 36" OPENING IN EXTERIOR WALL DETAIL**
NTS



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PROJECT INFORMATION:
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REV.	DATE	DESCRIPTION
1		
2		
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4		
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DATE: 12/2/2022
DRAWN BY: CKD
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SHEET TITLE

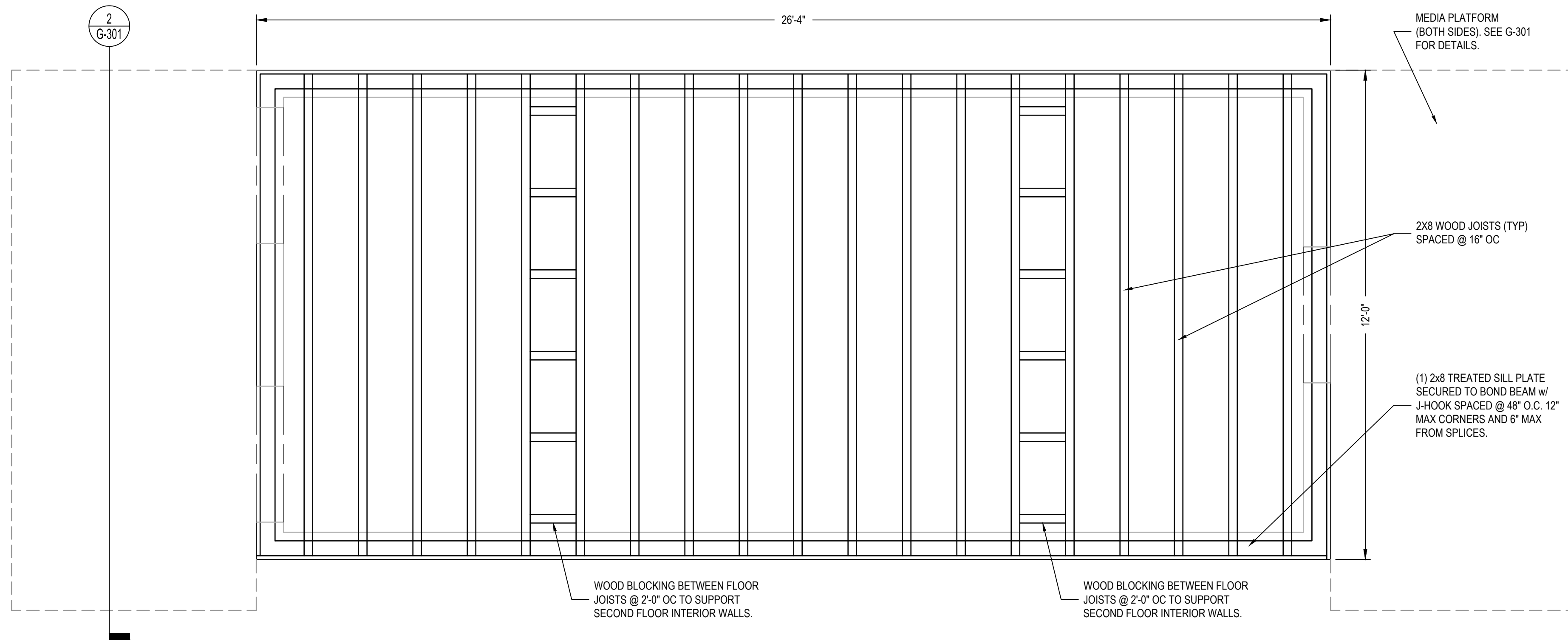
STRUCTURAL DETAILS

SHEET NUMBER

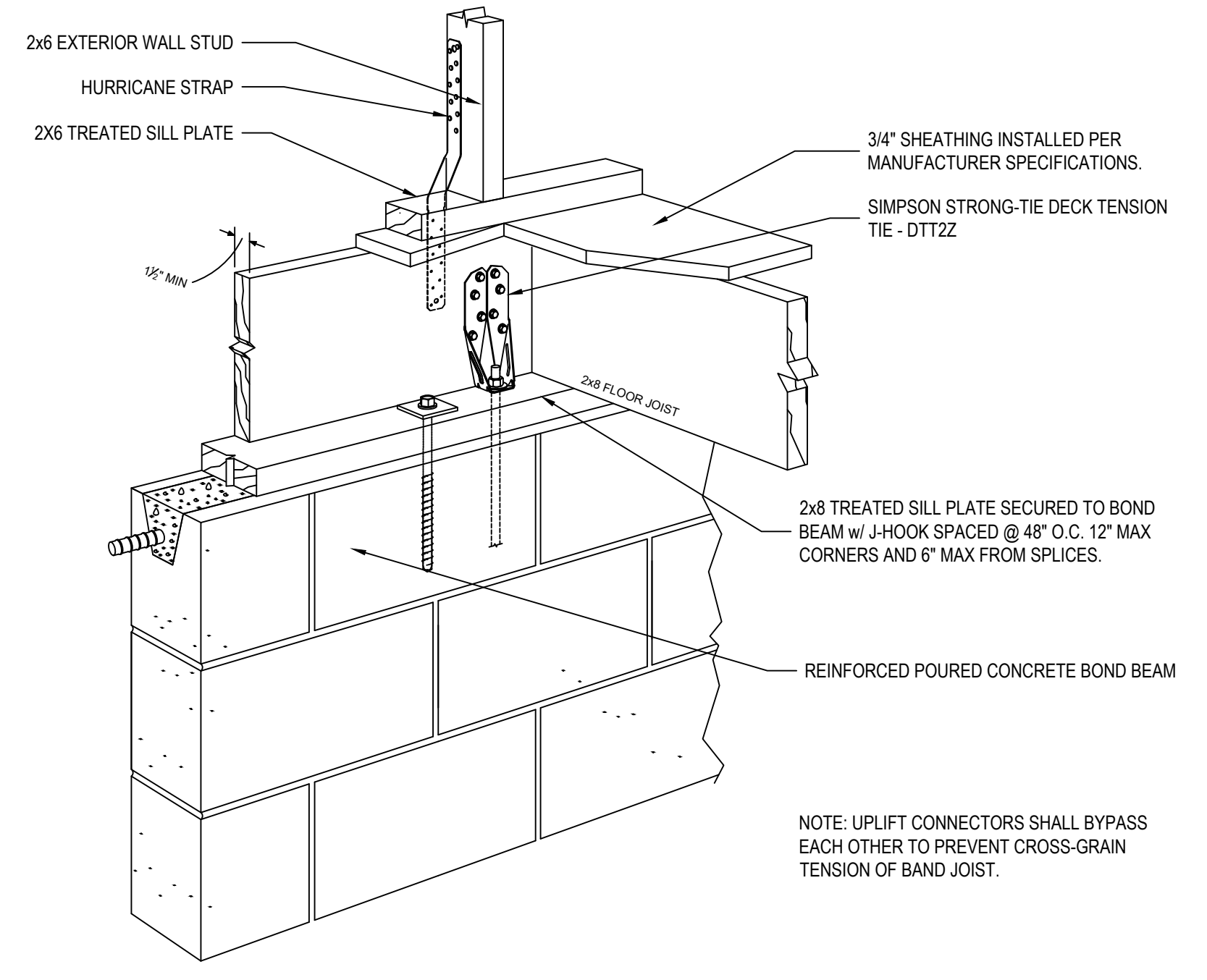
S-103

PROJECT# 21-11110

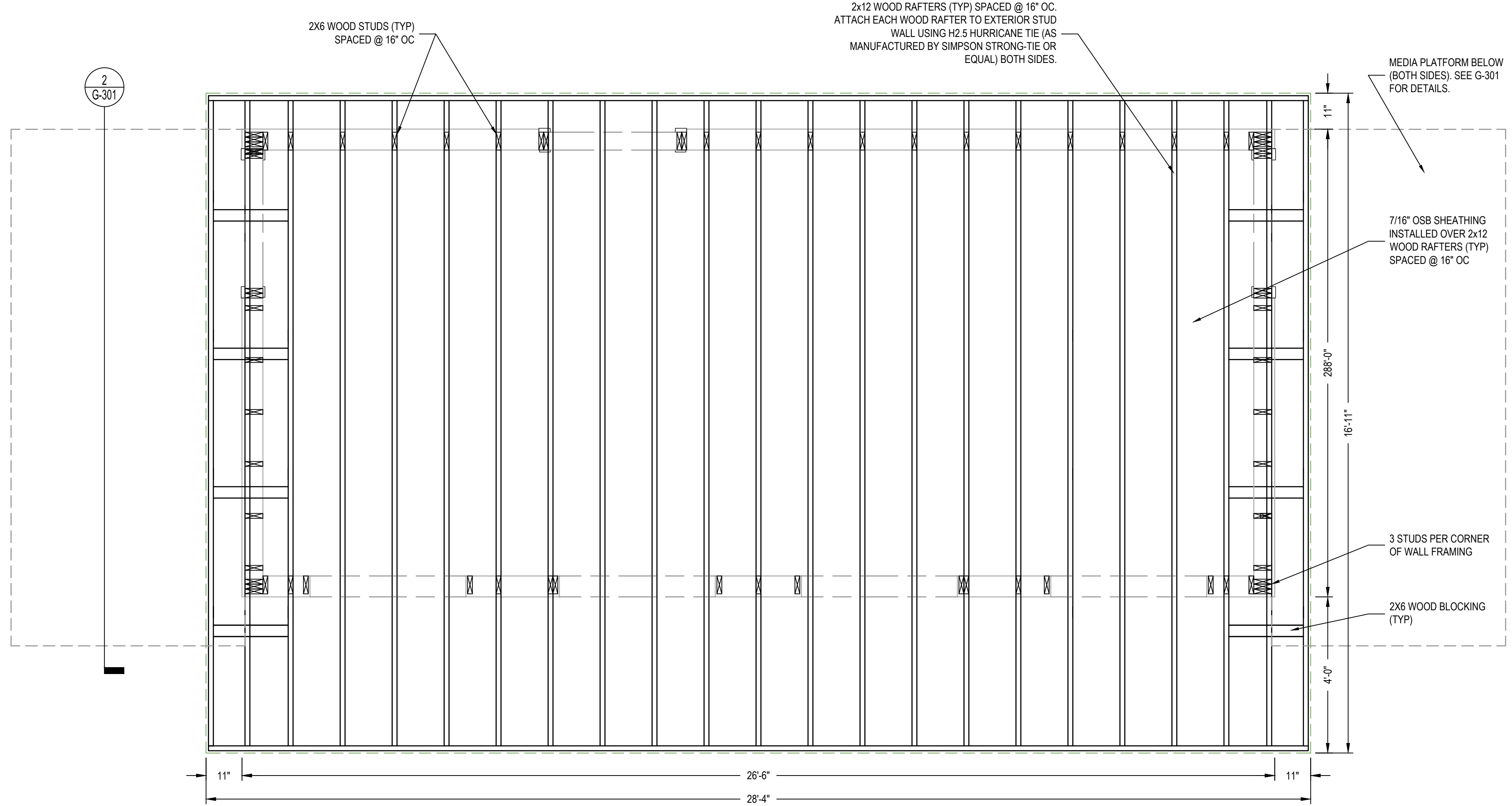
Printed: Fri 02-Dec-2022 - 11:21AM



1 SECOND FLOOR FRAMING PLAN
 1/2" = 1'-0"
 PLAN NORTH ACTUAL NORTH



2 FLOOR FRAMING DETAIL
 N.T.S.



3 ROOF FRAMING PLAN
 1/2" = 1'-0"
 PLAN NORTH ACTUAL NORTH

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LOCKLEAR & LOCKLEAR & JOHNSON
 P-0754

NORTH CAROLINA
 PROFESSIONAL ENGINEER
 SEAL
 029469
 JONATHAN E. LOCKLEAR

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PROJECT INFORMATION

REV#	DATE	DESCRIPTION
1		
2		
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4		
5		

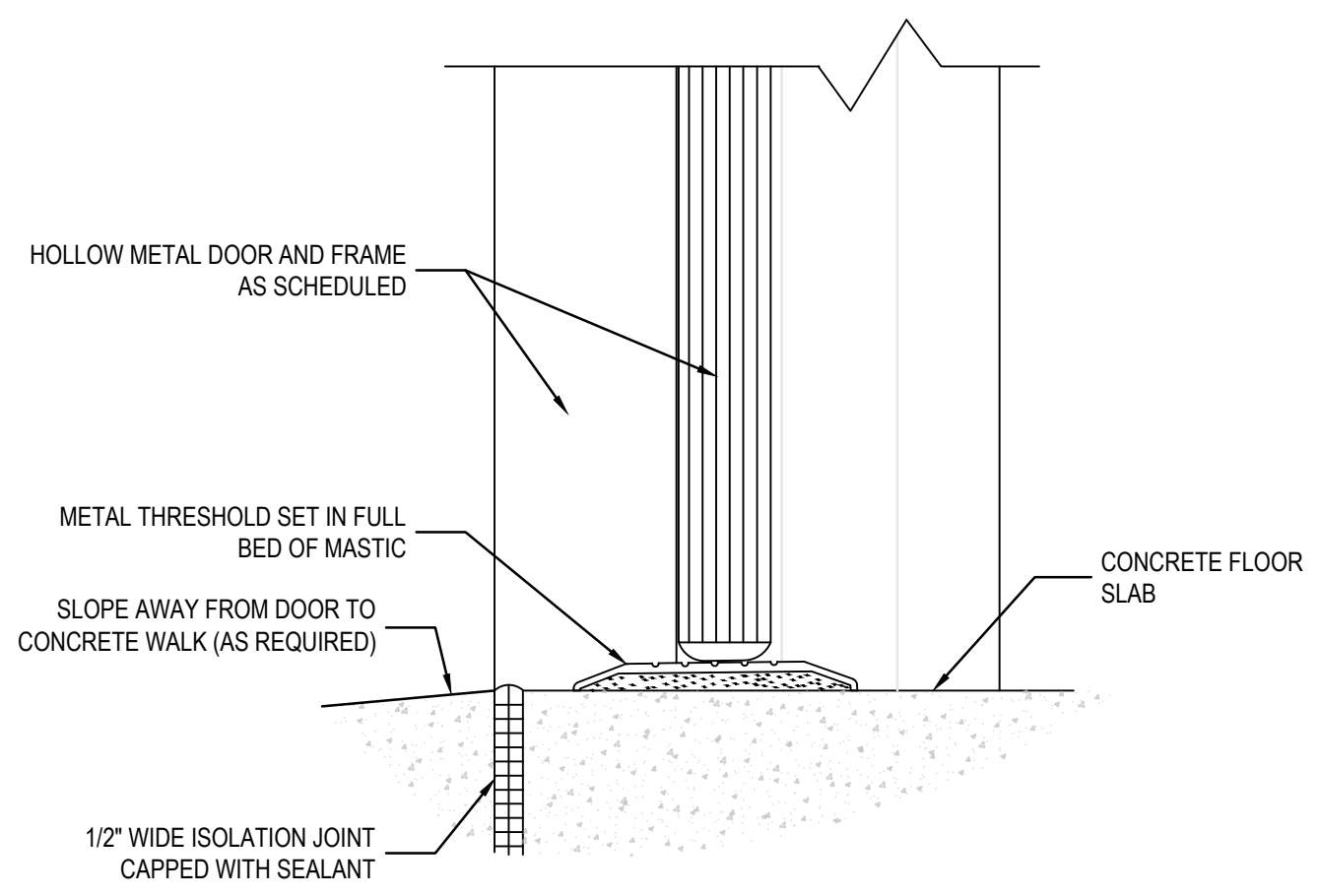
DATE: 12/2/2022
 DRAWN BY: CKD
 CHECKED BY: JEL

SHEET TITLE
FRAMING PLAN

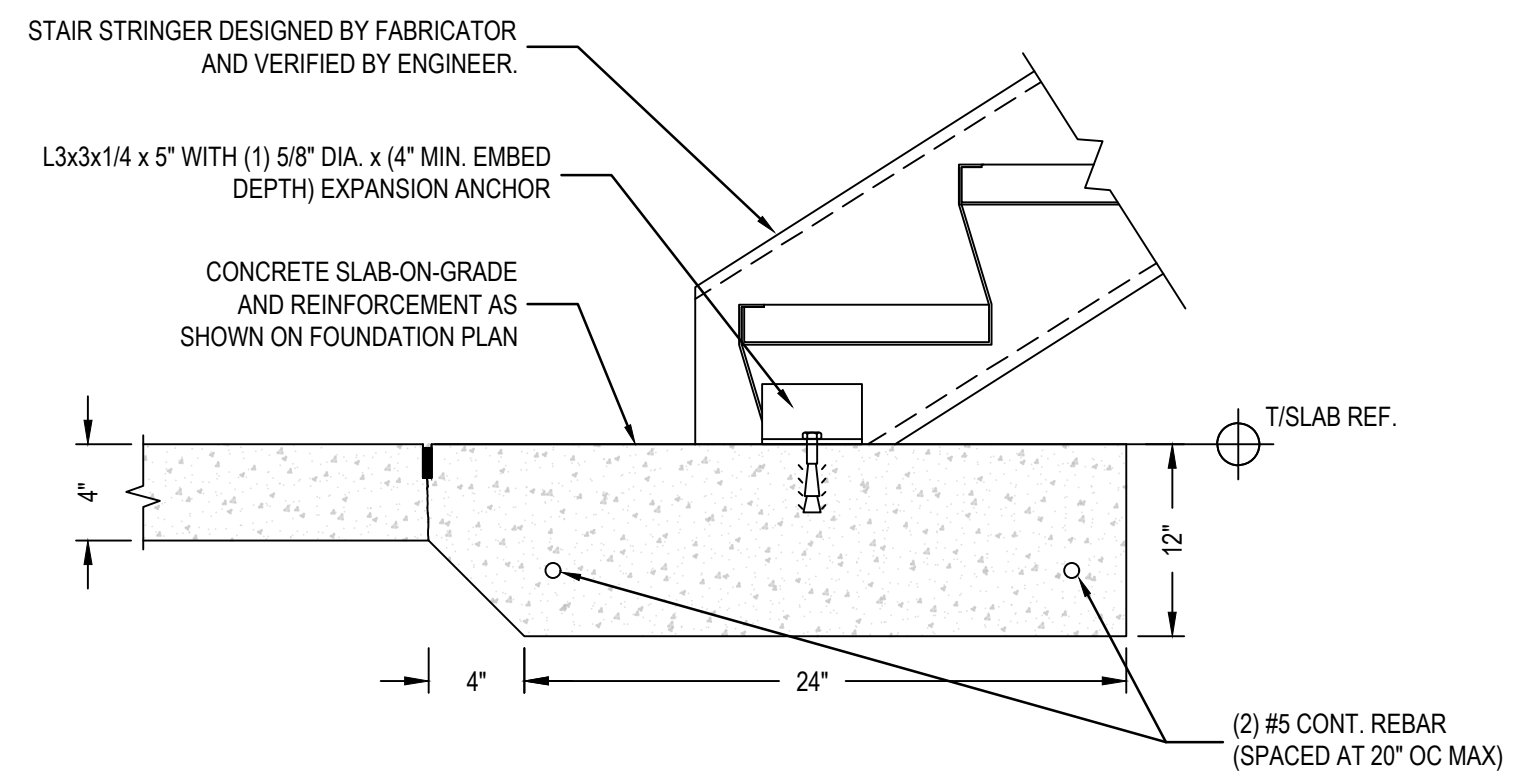
SHEET NUMBER
S-104

PROJECT# 21-11110

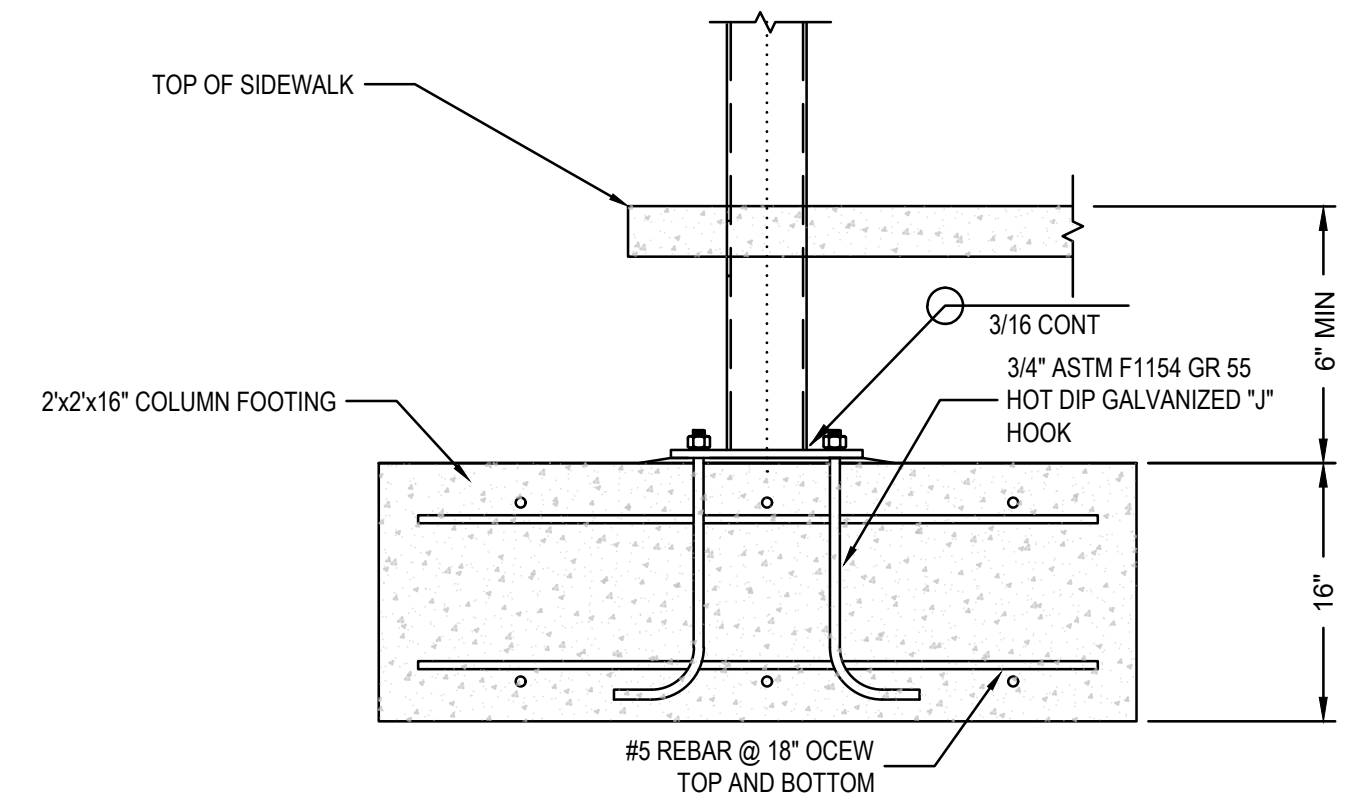
D:\Dropbox (L&J)\21-11110 Harnett County Schools Press Box\1-Drawings\Harnett Central High Press Box\Arch\21-11110 Harnett Central Press Box.dwg, S-104 FRAMING PLAN, rpsr



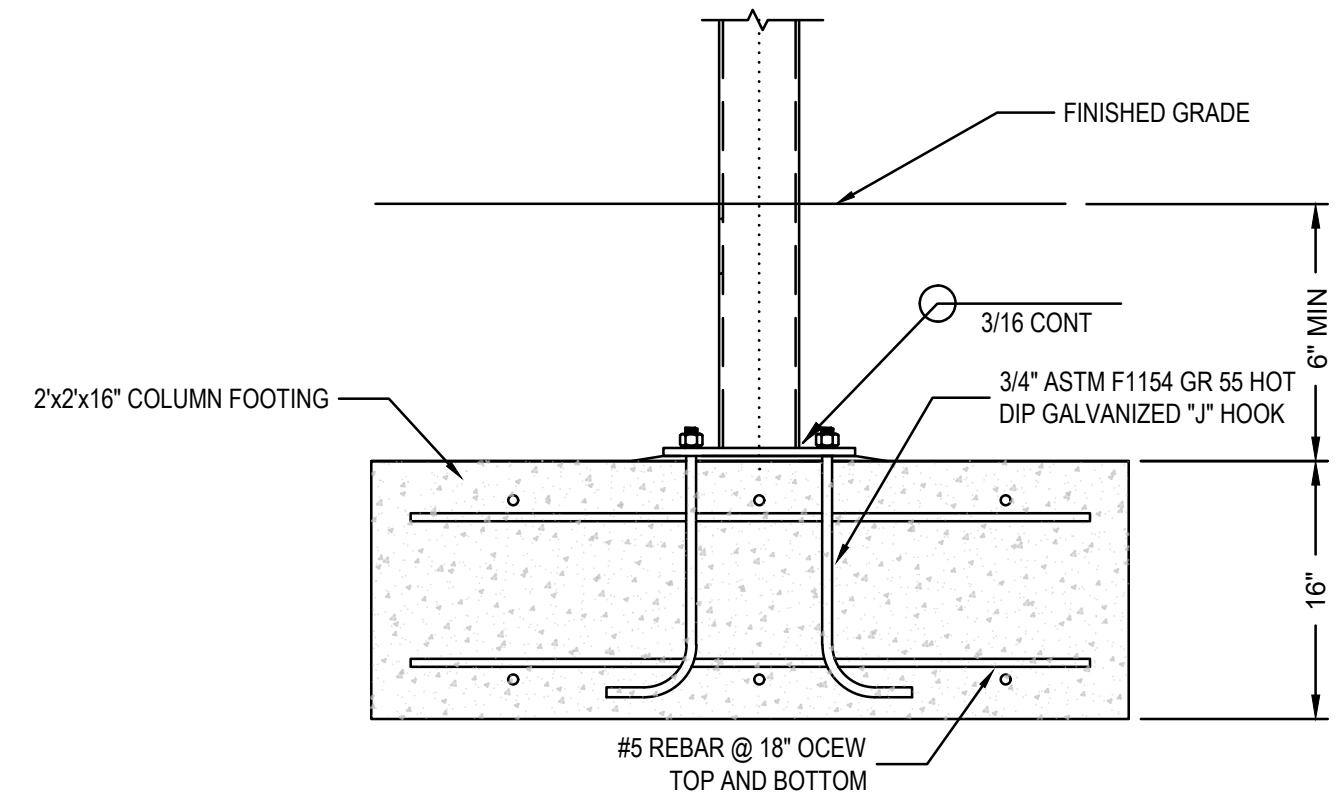
1 SILL AT EXTERIOR DOOR
NTS



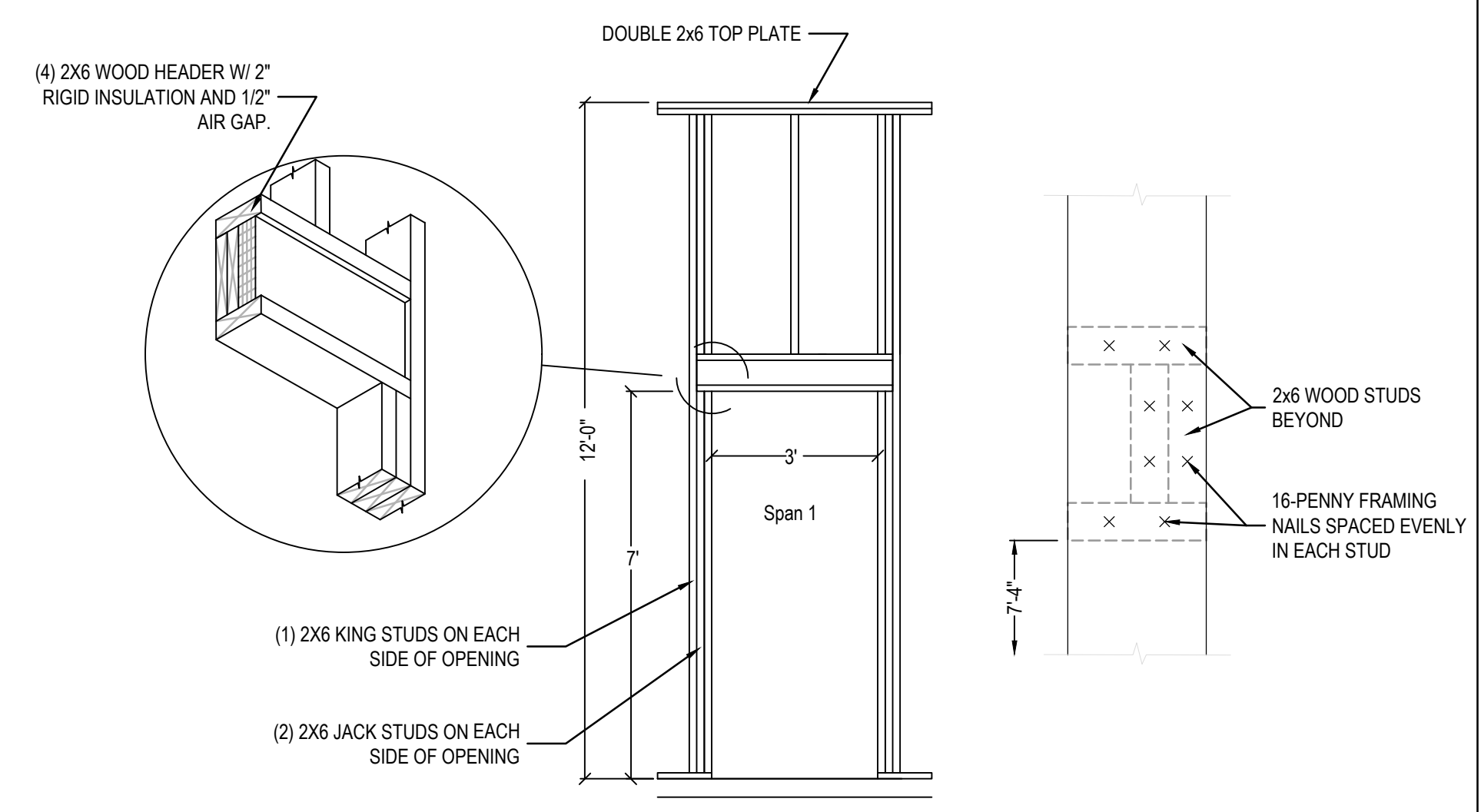
2 THICKENED SLAB ON GRADE UNDER STEEL STAIRS DETAIL
NTS



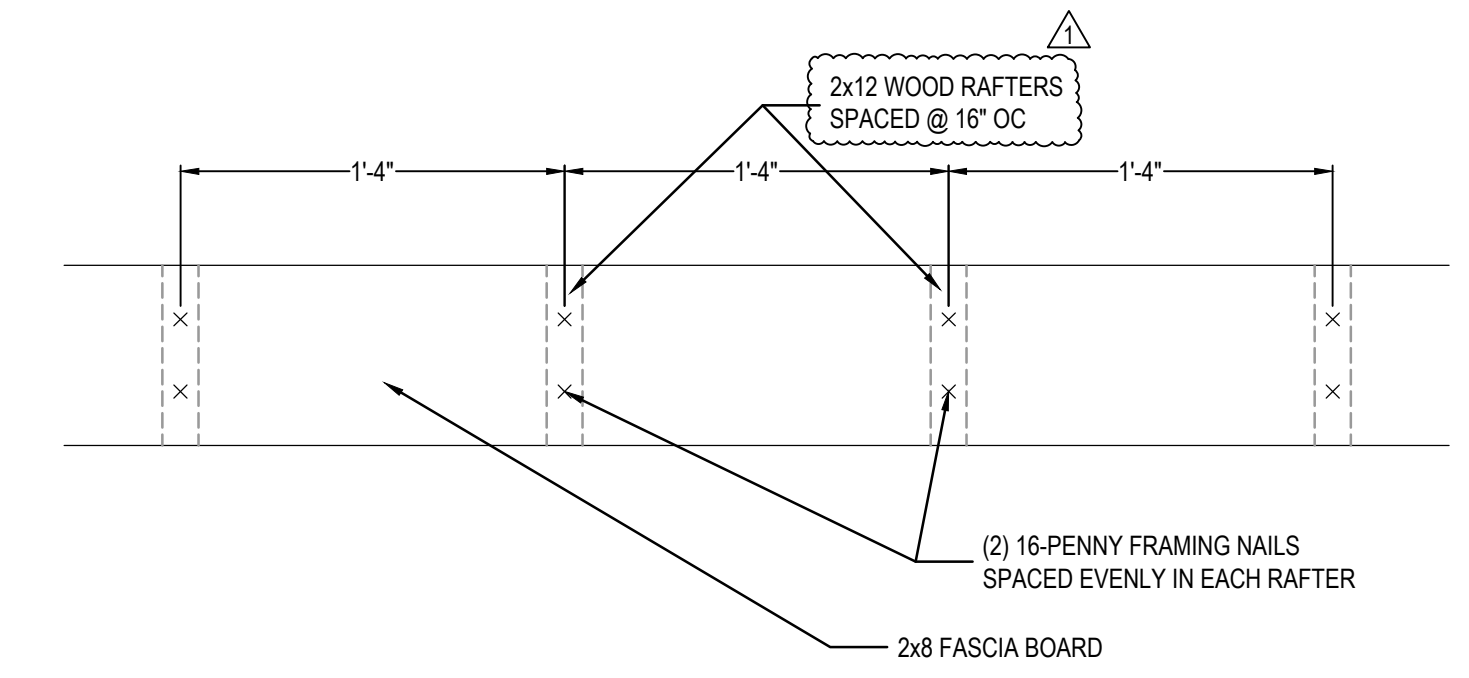
3 STEEL COLUMN FOOTER DETAIL
NTS



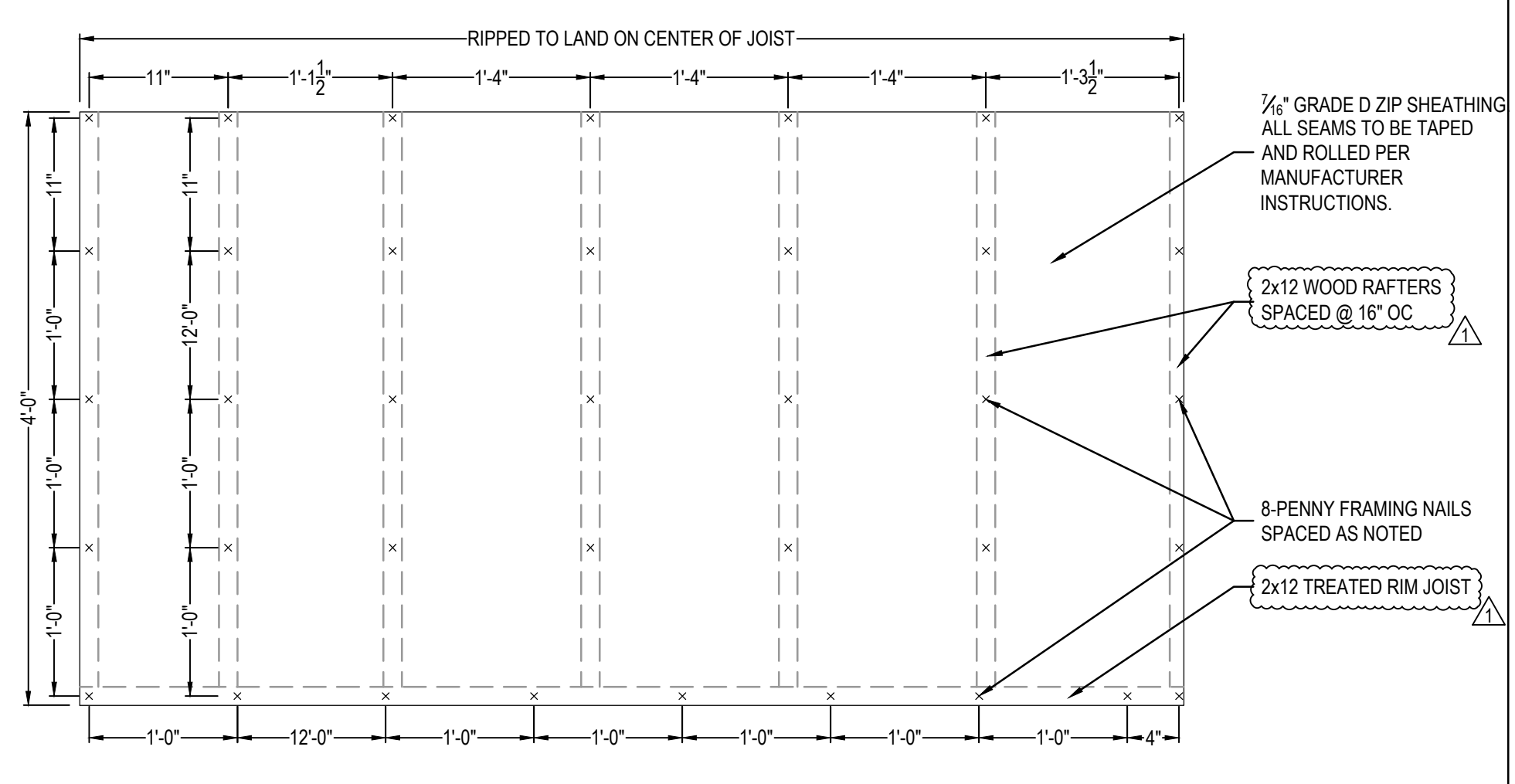
4 STEEL COLUMN FOOTER DETAIL
NTS



5 TYPICAL 36" OPENING IN EXTERIOR WALL DETAIL
NTS

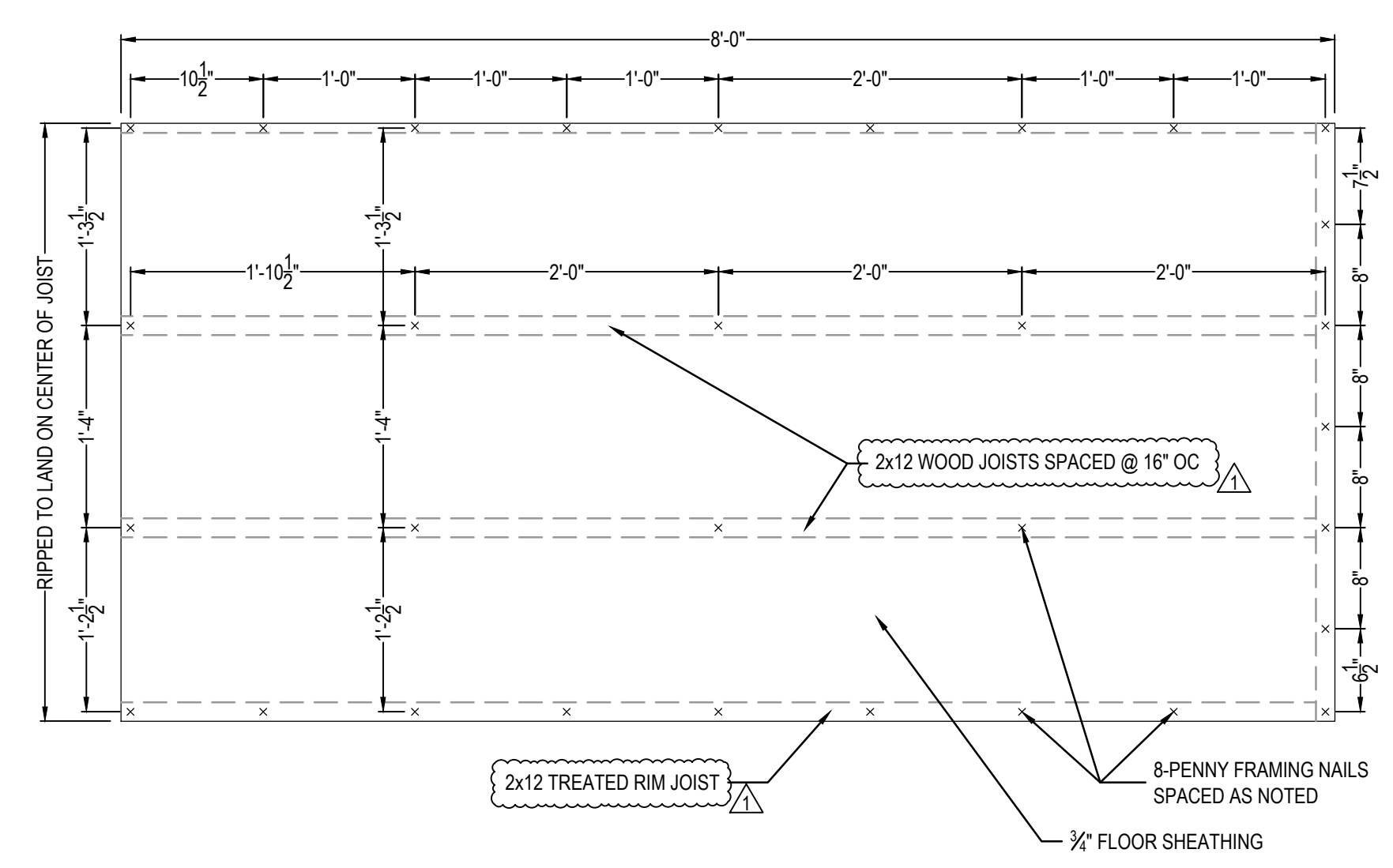


6 FASCIA BOARD NAILING PATTERN
NTS

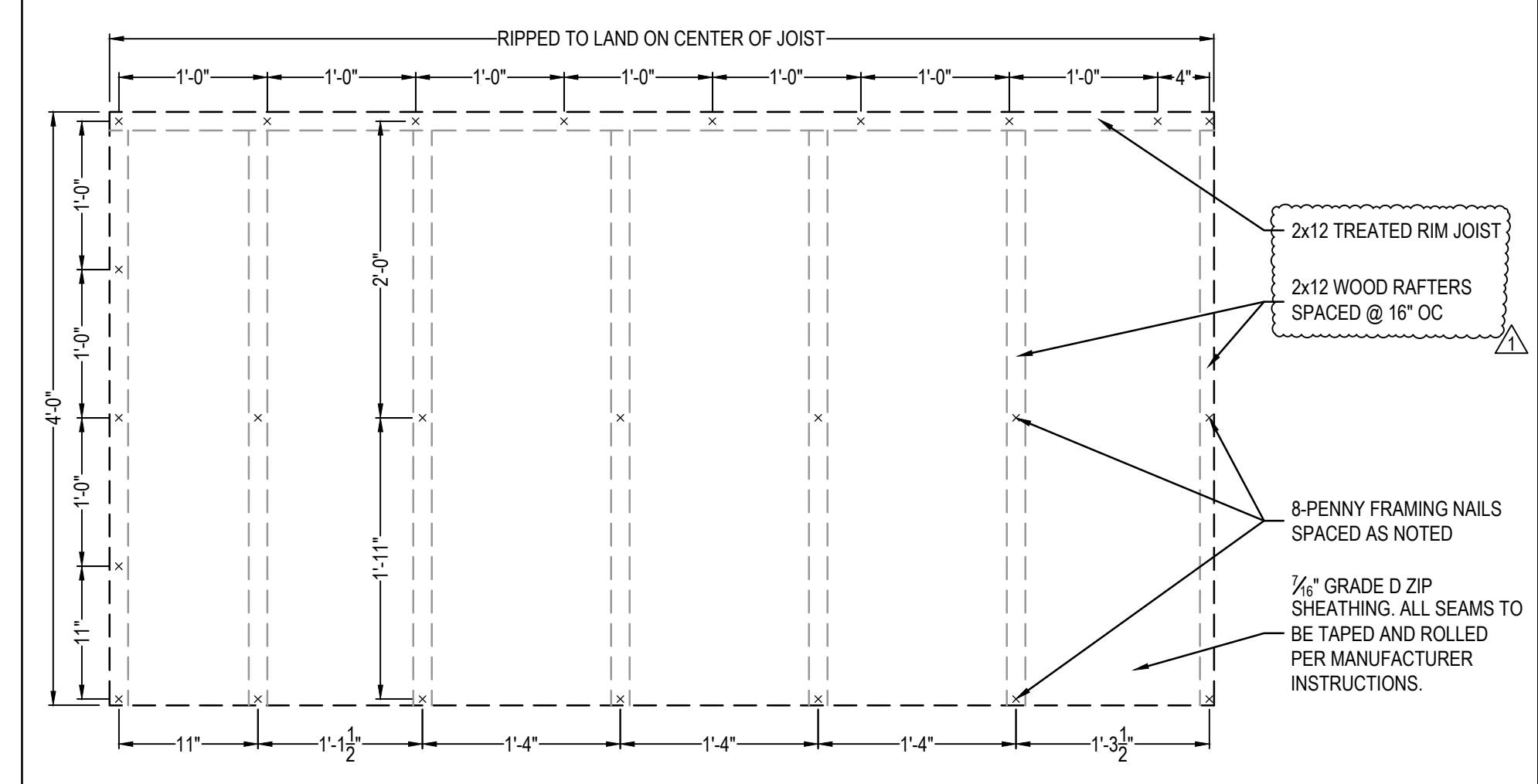


7 ROOF SHEATHING NAILING PATTERN
NTS

NOTE: ON THE 4'-0" OVERHANG, THE NAIL SPACING IS TO BE 1'-0" OC.

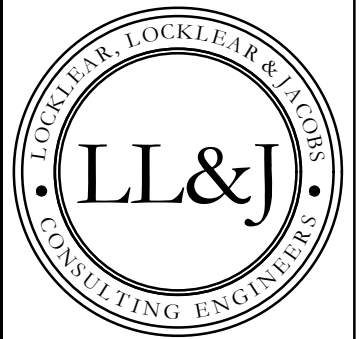


8 FLOOR SHEATHING NAILING PATTERN
NTS

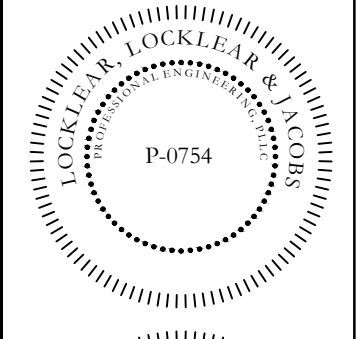


9 ROOF SHEATHING NAILING PATTERN
NTS

NOTE: ON THE 1'-0" OVERHANG PART OF THE ROOF, THE NAIL SPACING IS TO BE 1'-0" OC ON THE PERIMETER AND 2'-0" OC TYPICAL ELSEWHERE.



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4/13/2023

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REVISIONS

NO.	DATE	DESCRIPTION
1	4/12/2023	ROOF RAFTERS CHANGED, FLOOR JOIST SIZE CORRECTED.
2		
3		
4		
5		

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DATE: 1/10/2023
DRAWN BY: CKD
CHECKED BY: JEL

STRUCTURAL DETAILS

SHEET NUMBER
S-502
PROJECT# 21-11110

PLUMBING ABBREVIATIONS

Table of plumbing abbreviations with columns for symbol, description, and units. Includes entries like A/E ARCHITECT / ENGINEER, LAV LAVATORY, and various pipe and fixture symbols.

PLUMBING LEGEND

Table of plumbing symbols and their descriptions. Includes symbols for sanitary waste, storm drain, domestic cold/hot water, gas pipe, cleanout, and various valves.

NOTE: NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED

PLUMBING NOTES

- List of 30 plumbing notes detailing installation requirements, material specifications, and safety protocols. Includes notes on site utilities, pipe materials, and testing procedures.

PLUMBING FIXTURE LEGEND

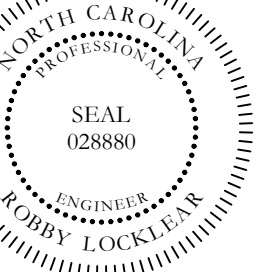
Table of plumbing fixture specifications. Columns include Mark, Symbol, Description, Manufacturer / Model, and Water Line Sizes (Cold, Hot, Vent).

DRAWING INDEX

Table of drawing index with columns for Sheet, Sheet Title, Rev #, and Date. Lists sheets P-001, P-101, and P-301.



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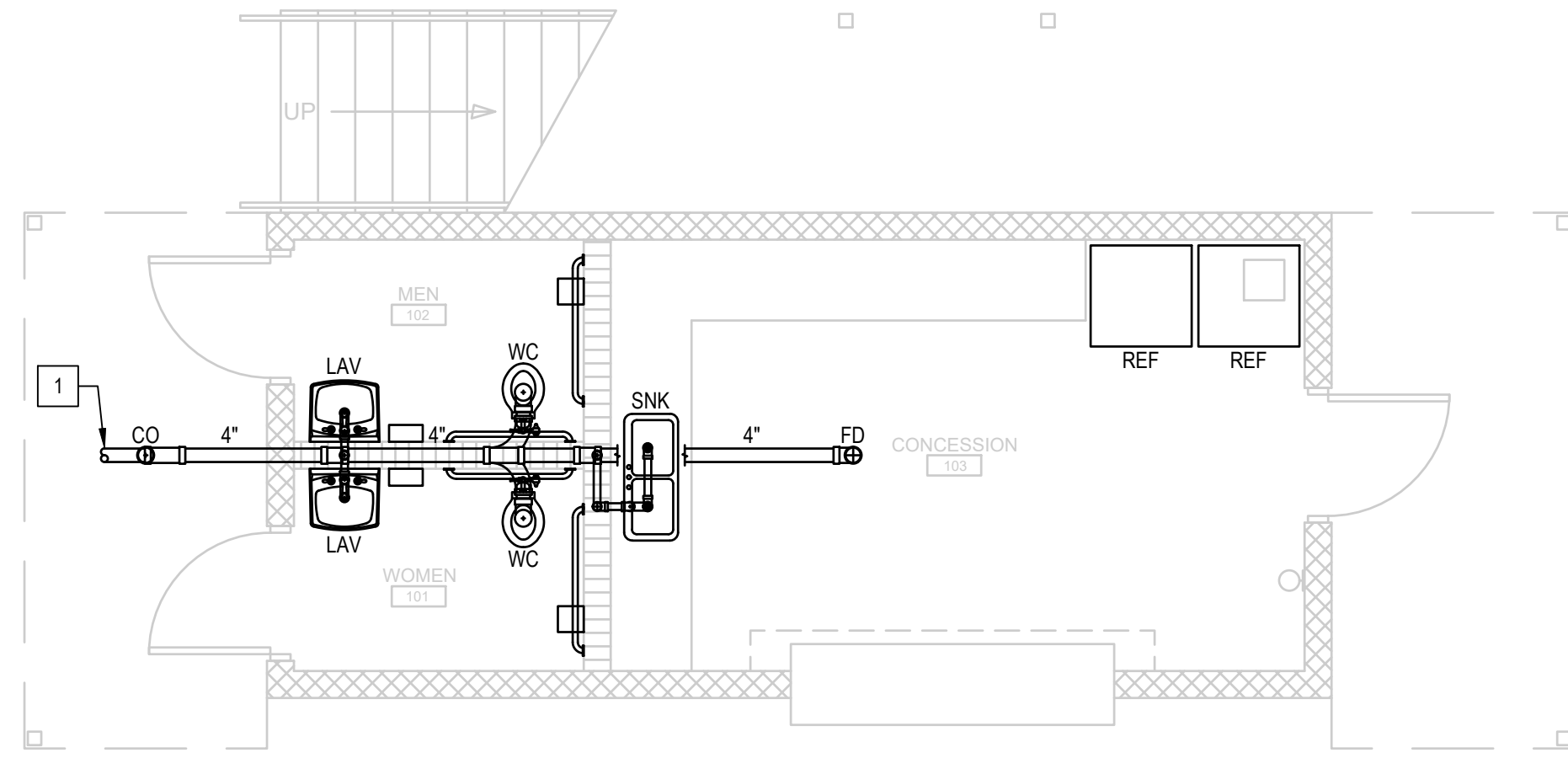
PROJECT INFORMATION

Table with columns for REV#, DATE, and DESCRIPTION. Includes revision history for the drawing.

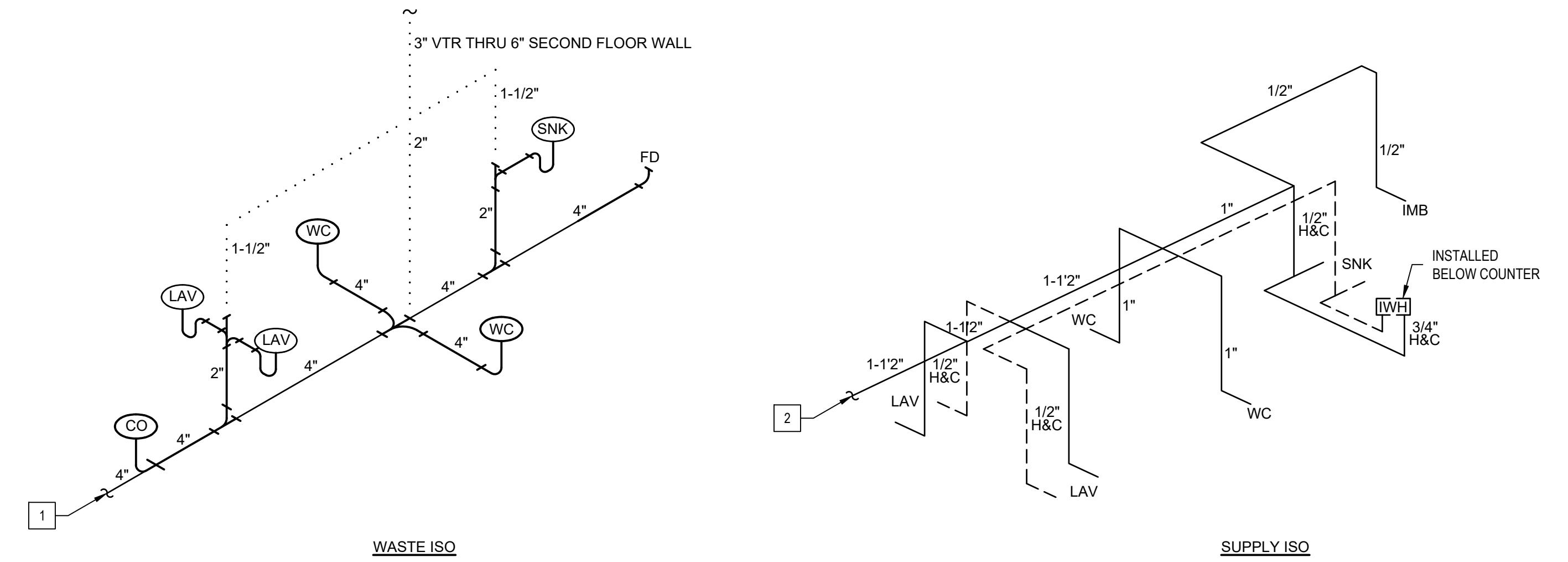
DATE: 5/9/2022
DRAWN BY: CKD
CHECKED BY: RL

SHEET TITLE: PLUMBING NOTES AND SCHEDULES

SHEET NUMBER: P-001
PROJECT# 21-1110



1 FIRST FLOOR WASTE PLAN
SCALE: 1/4" = 1'-0"



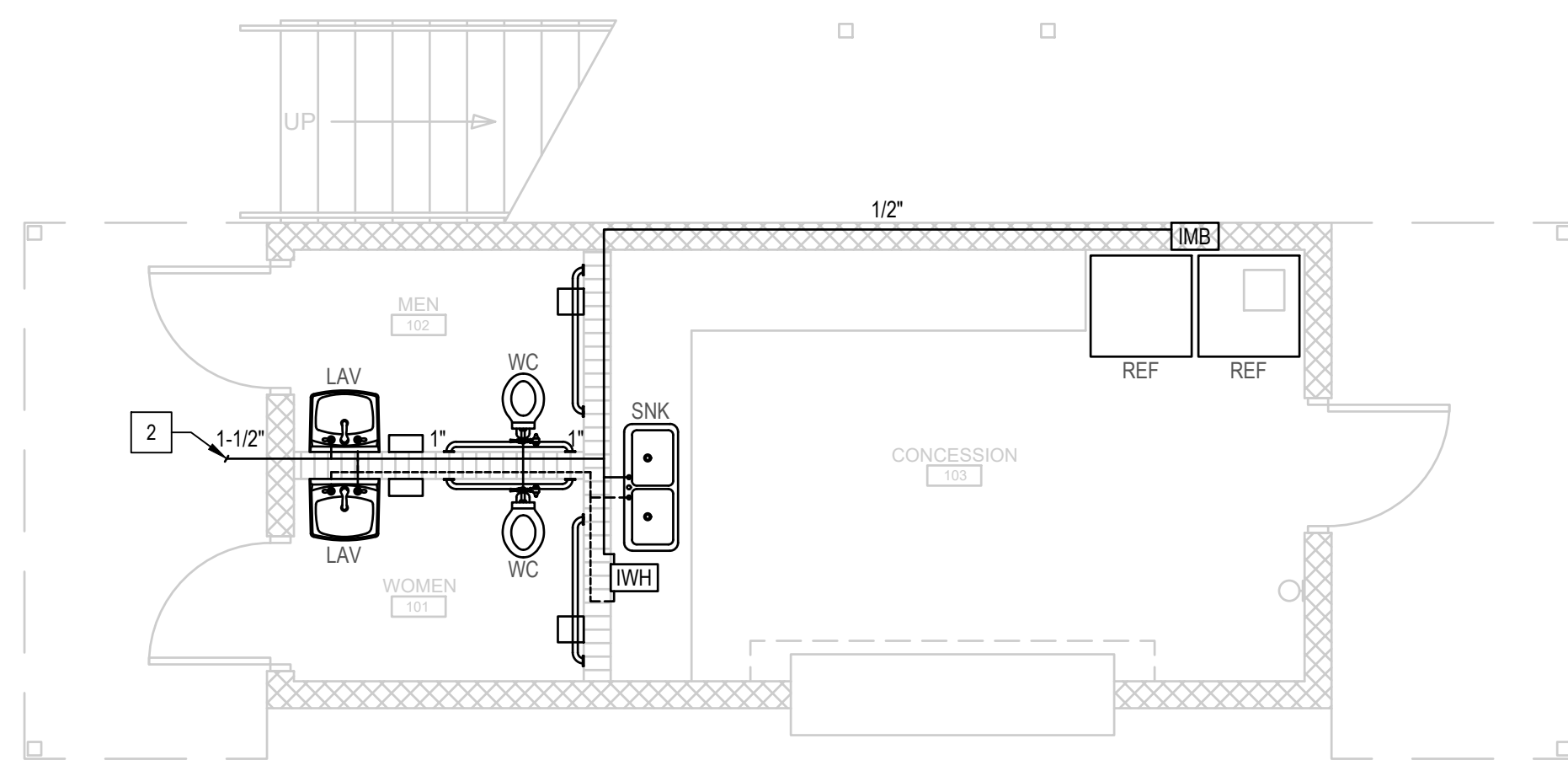
WASTE LEGEND	
SYMBOL	DESCRIPTION
	WASTE PIPE
	WASTE VENT

NOTES:

1. INSTALL CLEANOUTS AS REQUIRED PER NC PLUMBING CODE.
2. PIPING TO HAVE 1/8" FT MINIMUM SLOPE.
3. VENT PIPING THRU WALL TO ROOF (COMBINE VENTS BEFORE PENETRATING ROOF TO ELIMINATE EXCESS PENETRATIONS).
4. VENT PIPING SHOWN FOR REFERENCE. REFER TO CURRENT NC PLUMBING CODE FOR VENT PIPE SIZES & LOCATIONS.
5. MINIMUM OF (1) 3" VENT REQUIRED.

SUPPLY LEGEND	
SYMBOL	DESCRIPTION
	COLD SUPPLY
	HOT SUPPLY

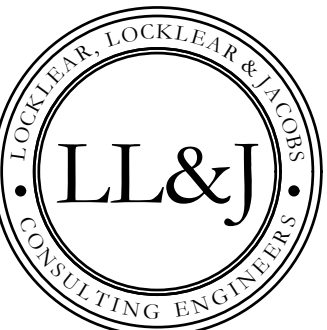
2 PLUMBING WASTE AND SUPPLY ISO'S
SCALE: NTS



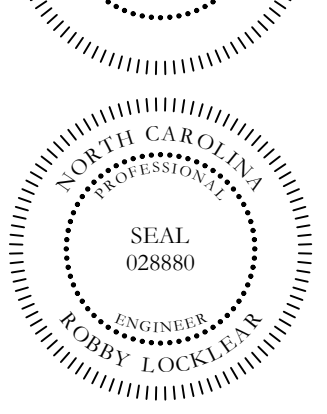
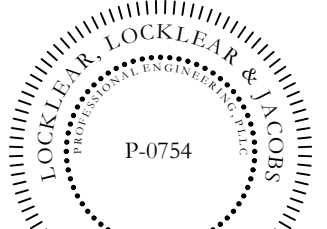
3 FIRST FLOOR SUPPLY PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES:

- 1 TIE-INTO EXISTING WASTE. COORDINATE EXACT LOCATION WITH OWNER AND TO PREVENT INTERFERENCE WITH STAIR SUPPORT LEGS ETC.
- 2 TIE-INTO EXISTING SUPPLY. COORDINATE EXACT LOCATION WITH OWNER AND TO PREVENT INTERFERENCE WITH STAIR SUPPORT LEGS ETC.



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HARNETT COUNTY SCHOOLS
2911 HARNETT CENTRAL RD
ANGIER, NC 27501

PROJECT INFORMATION:

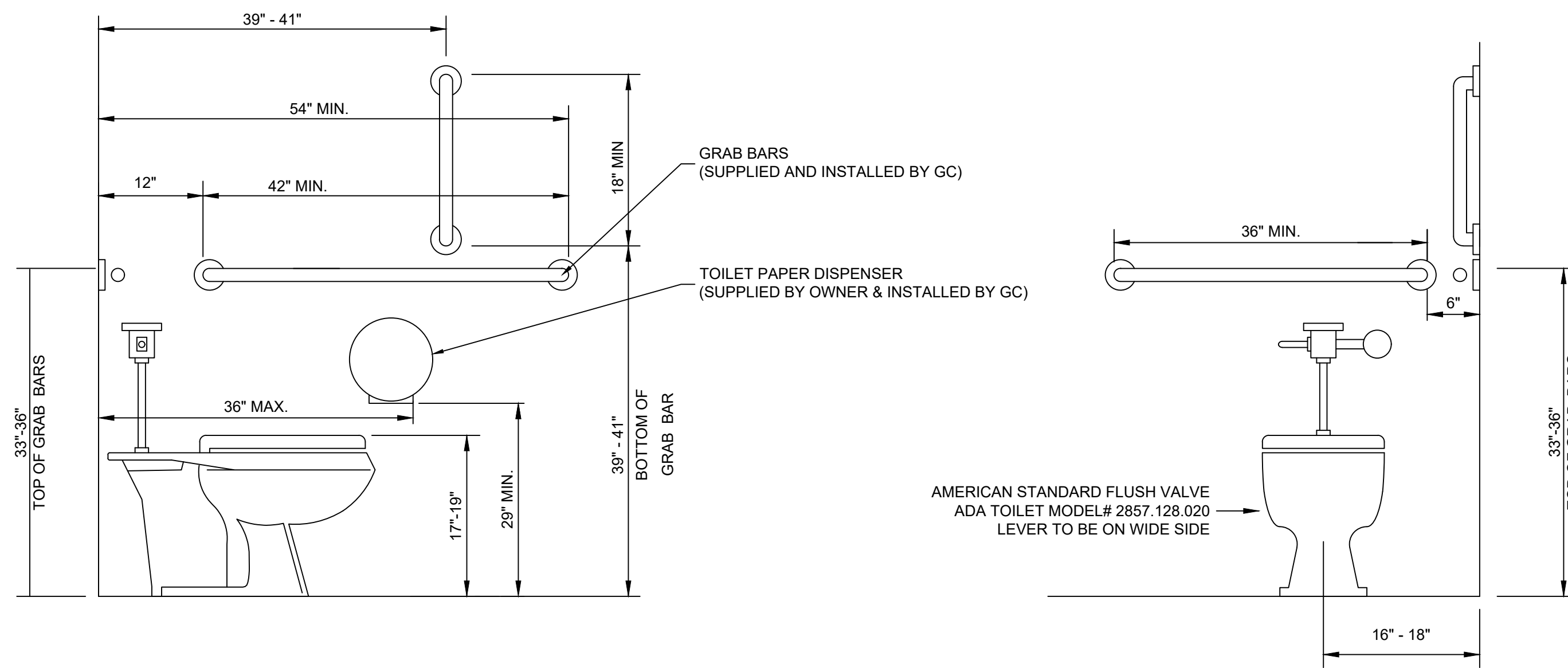
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DATE: 5/9/2022
DRAWN BY: CKD
CHECKED BY: RL
SHEET TITLE:

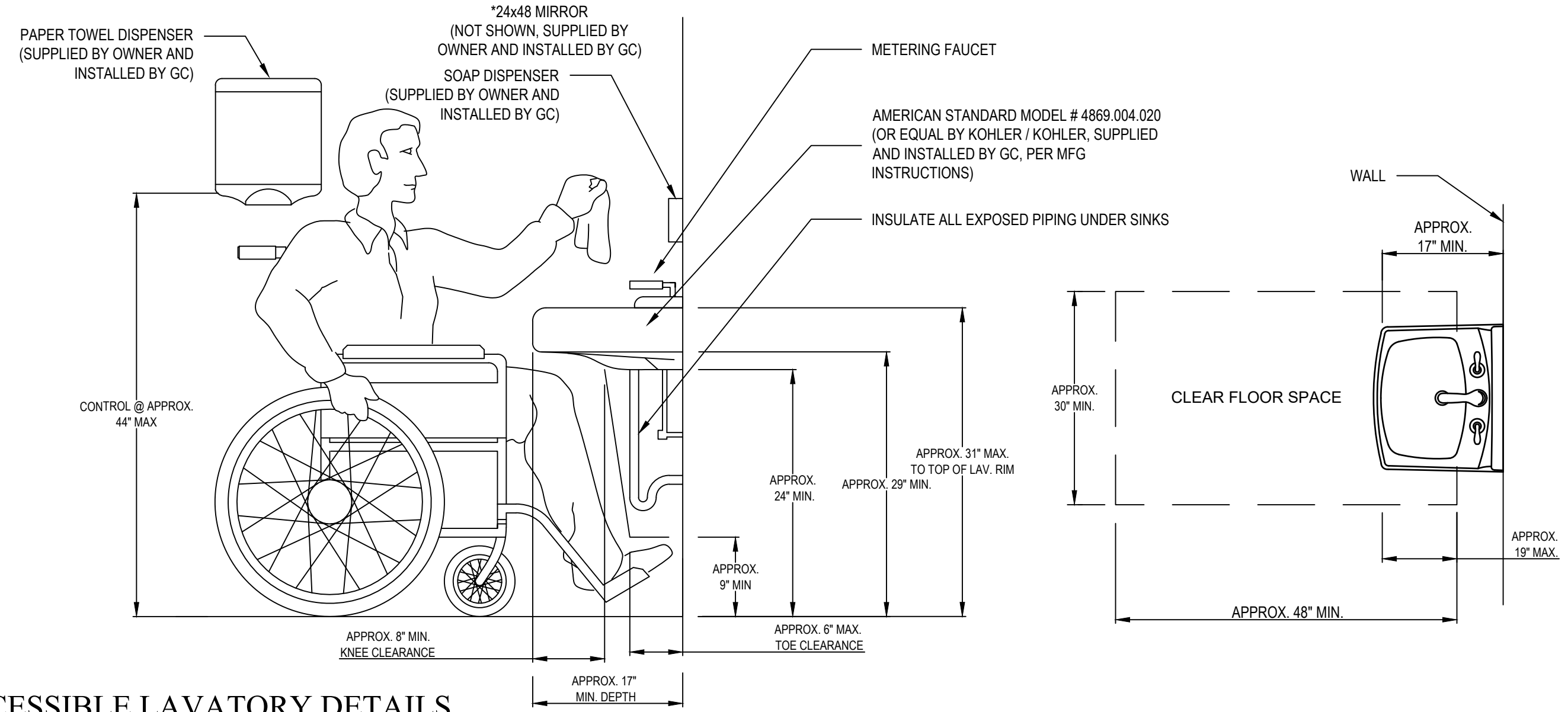
PLUMBING PLAN

SHEET NUMBER
P-101
PROJECT# 21-1110

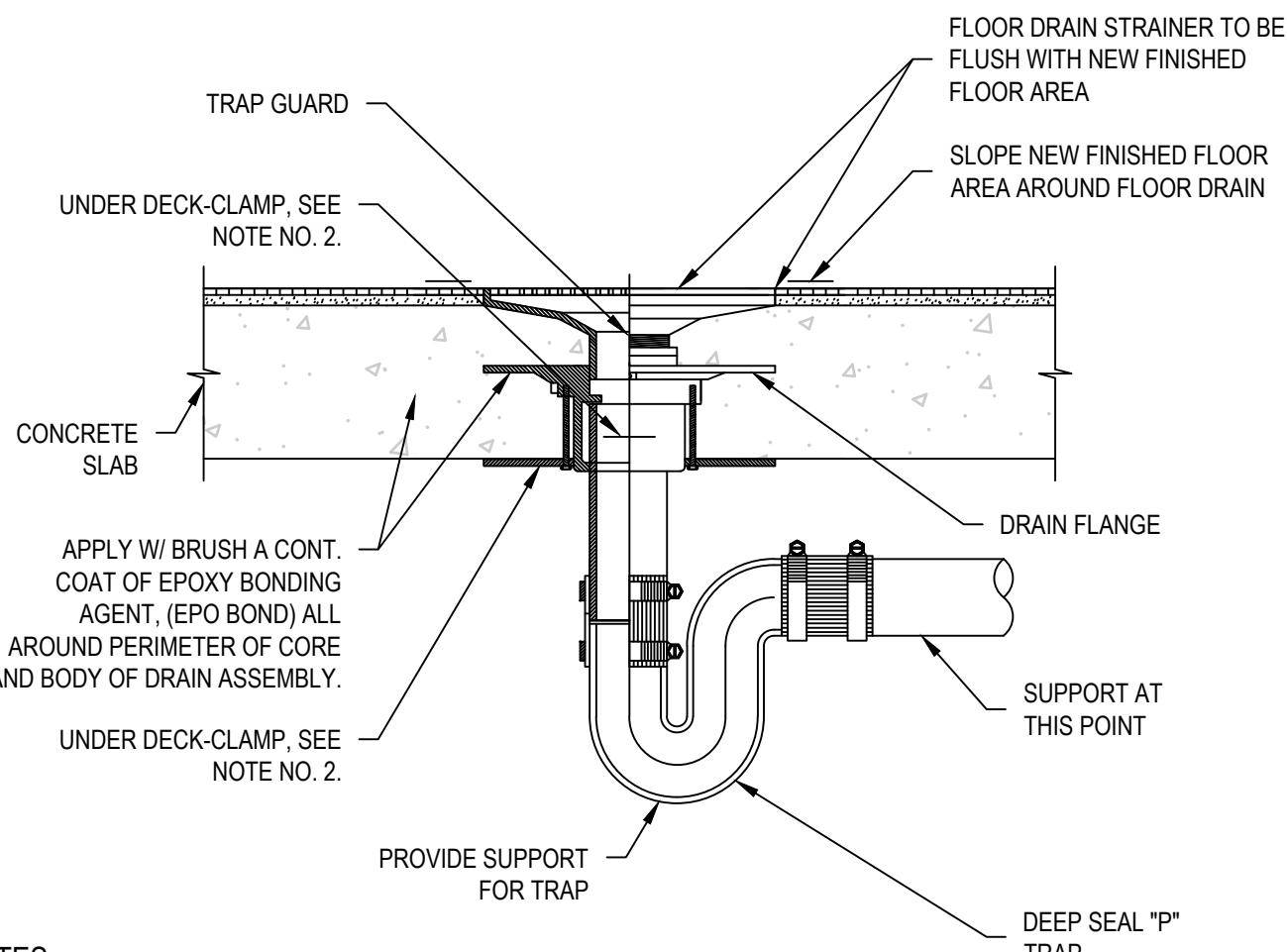
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1 ADA TOILET ELEVATION DETAILS
NTS

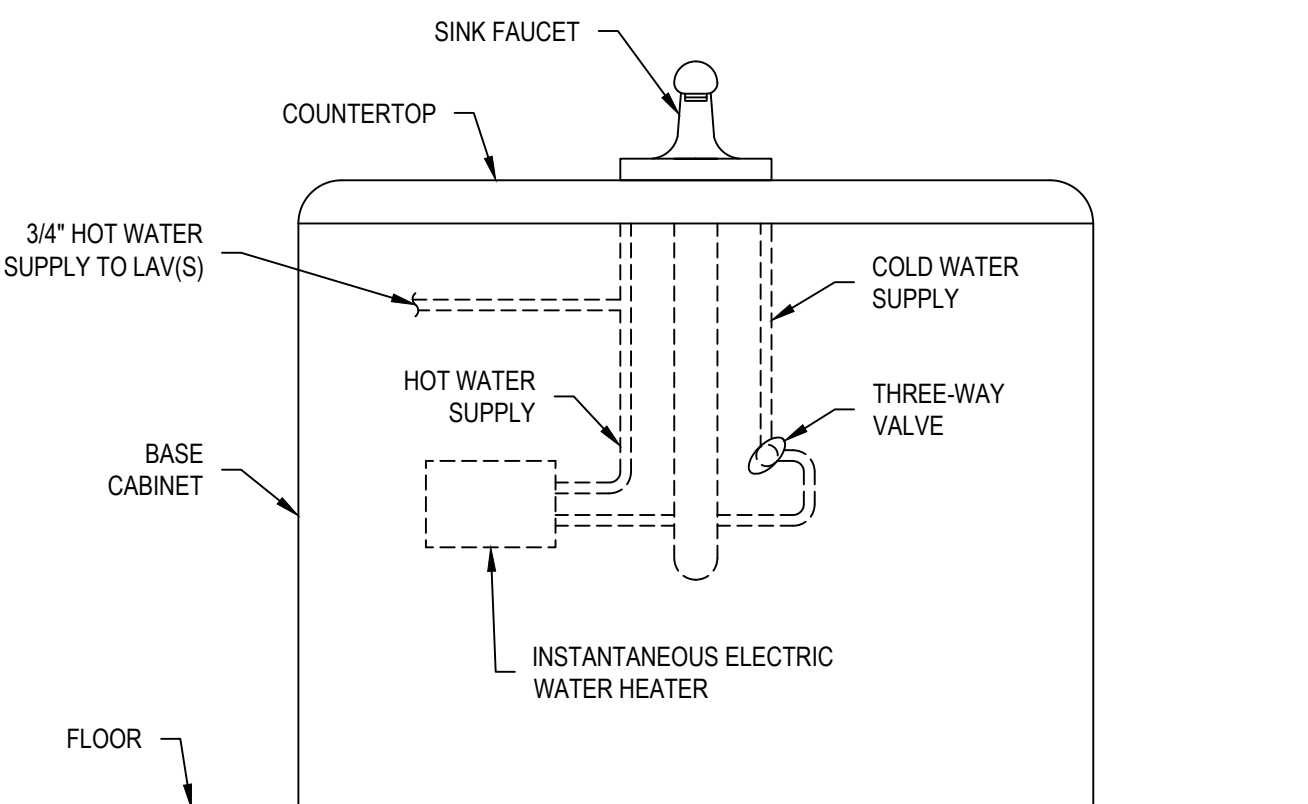


2 ACCESSIBLE LAVATORY DETAILS
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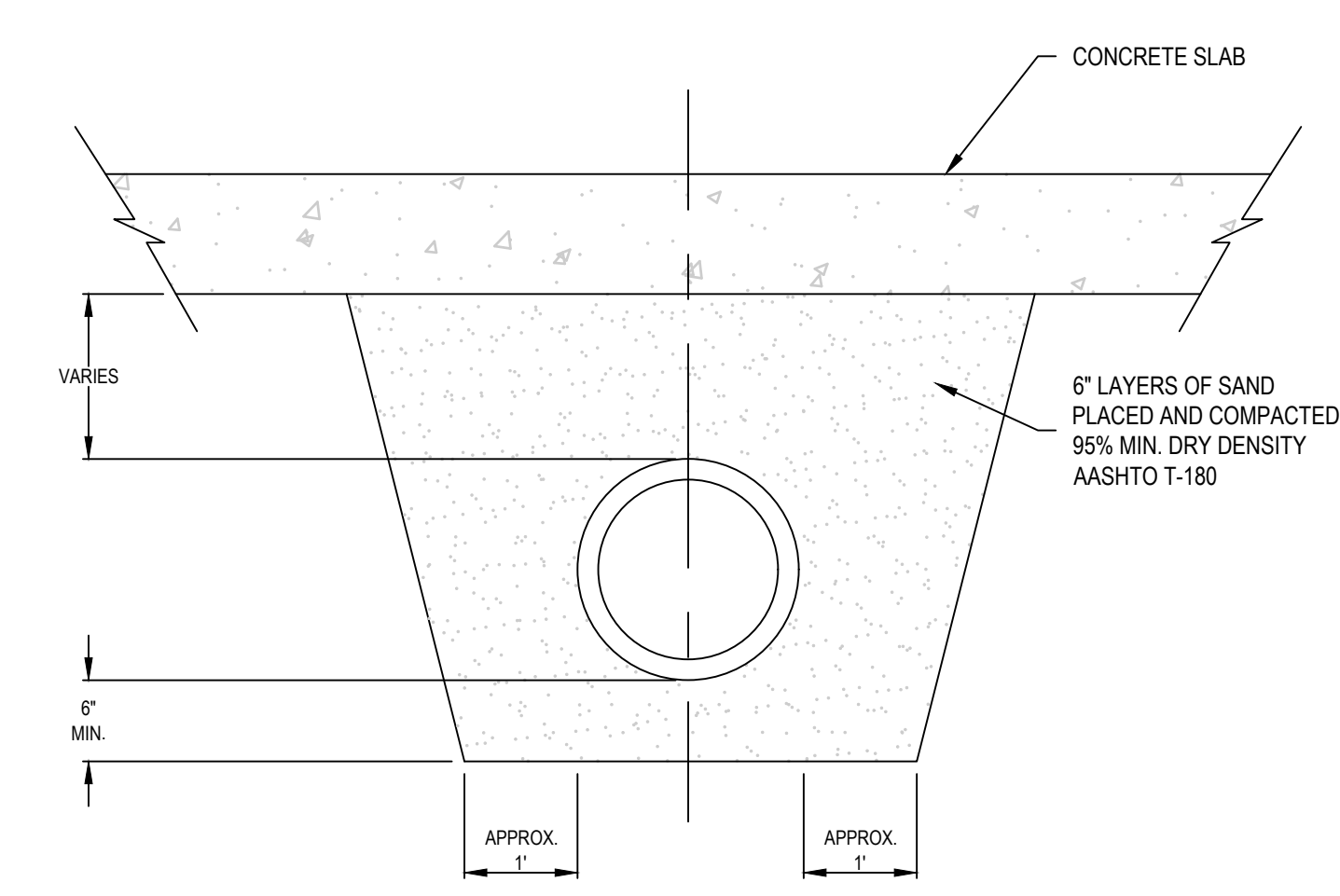


3 TYPICAL FLOOR DRAIN INSTALLATION DETAIL
NTS

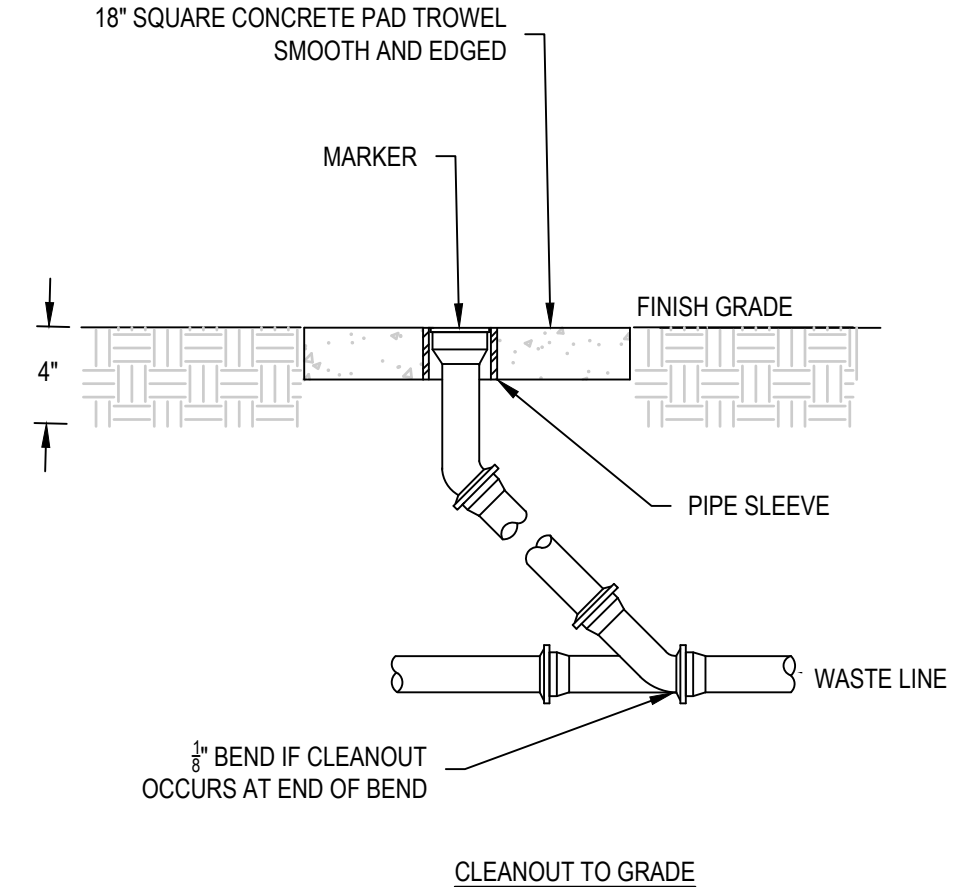
- NOTES:
1. PROVIDE UNDER DECK CLAMP ON THIN SLAB INSTALLATIONS OF 5" OR LESS. SECURE CLAMP TO DRAIN, REF. SPECIFICATIONS.
2. NO-HUB FOR ABOVE GRADE INSTALLATION ONLY.
3. INCLUDE TRAP PRIMER.



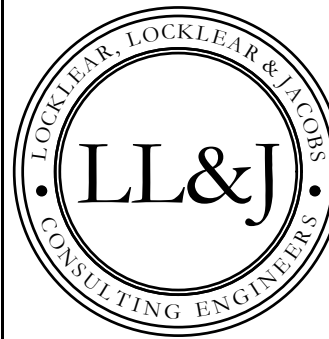
4 INSTANTANEOUS WATER HEATER DETAIL
NTS



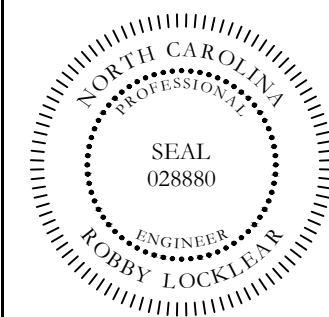
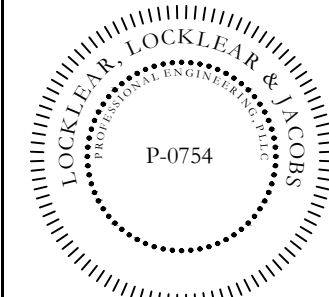
5 TYPICAL PIPE UNDER SLAB DETAIL
NTS



6 EXTERIOR CLEANOUT DETAIL
NTS



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D:\Dropbox (L&J)\21-1110 Harnett County Schools Press Box\1-Drawings\Harnett Central High Press Box\MEP\21-1110 Harnett Central Press Box MEP (CKD).dwg, P-301 PLUMBING DETAILS, rpsr

PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
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DATE: 5/9/2022
DRAWN BY: CKD
CHECKED BY: RL
SHEET TITLE

PLUMBING DETAILS

SHEET NUMBER
P-301
PROJECT# 21-1110

MECHANICAL NOTES

- THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF THE VENTILATION AND AIR CONDITIONING SYSTEMS. DETAILS OF CONSTRUCTION AND OF WORKMANSHIP WHERE NOT SPECIFICALLY DESCRIBED HEREIN OR INDICATED ON THE DRAWINGS SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE COMPLETE SYSTEMS, LEFT IN GOOD WORKING ORDER, READY FOR OPERATION, INCLUDING NECESSARY LABOR AND MATERIALS, WHETHER OR NOT SPECIFICALLY SHOWN ON THE DRAWINGS OR MENTIONED HEREIN. IT IS NOT THE INTENTION OF THESE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER TO AVOID OBSTRUCTIONS, PRESERVE HEADROOM AND KEEP OPENINGS AND PASSAGEWAYS CLEAR WITHOUT FURTHER COST OR INSTRUCTIONS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST APPLICABLE CODES AND STANDARDS LISTED BELOW. IN ADDITION THE WORK SHALL COMPLY WITH ANY LOCAL, STATE OR FEDERAL CODES, STANDARDS, AND REGULATIONS, HAVING JURISDICTION IN THE AREA WHERE THE EQUIPMENT OR WORK WILL BE INSTALLED.

AABC	AMERICAN AIR BALANCE COUNCIL
AMCA	AIR MOVING AND CONTROL ASSOCIATION, INC.
ANSI	AMERICAN NATIONAL STANDARD INSTITUTE
ARI	AIR CONDITIONING AND REFRIGERATION INSTITUTE
ASHARE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
SMACNA	SHEET METAL AND AIR CONDITION CONTRACTORS NATIONAL ASSOCIATION
UL	UNDERWRITERS LABORATORY
BOCA	THE BOCA NATIONAL MECHANICAL CODE LATEST EDITION

ALL CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. CONTRACTOR SHALL VERIFY ALL FIELD DIMENSIONS AND EQUIPMENT LOCATIONS PRIOR TO FABRICATION AND PURCHASE OF NEW EQUIPMENT. (I.E. DIFFUSERS, ETC.)
- THE CONTRACTOR SHALL SURVEY THE SITE AND MAKE ALL NECESSARY CHANGES REQUIRED BASED ON EXISTING CONDITIONS FOR PROPER INSTALLATION OF NEW WORK, AND INCLUDE ALL MATERIALS AND LABOR IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
- THE CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS, CONDUCT A COMPLETE FIELD SURVEY TO FAMILIARIZE THEMSELVES WITH ALL THE REQUIREMENTS OF THE PROJECT, AND SHALL NOTIFY THE OWNER/ENGINEER OF ANY OBSERVED FAULTS AND AMBIGUITY IN THE CONTRACT DOCUMENTS.
- BY SUBMISSION OF BID, THE CONTRACTOR SHALL ACKNOWLEDGE ACCEPTANCE OF THE CONTRACT DOCUMENTS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK AND EXTRA COST CLAIMS BASED ON INADEQUACY OF CONTRACT DOCUMENTS WILL NOT BE CONSIDERED.
- SUBMISSION OF A PROPOSAL SHALL BE CONSTRUCTED AS EVIDENCE THAT EXAMINATION OF PLANS HAVE BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN DURING SUCH AS EXAMINATION.
- ALL APPLICABLE CODES, LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS, AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR WHO SHALL INFORM THE OWNER/ENGINEER, PRIOR TO SUBMITTING A PROPOSAL, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ABOVE LAWS AND REGULATIONS. ANY WORK DONE BY THE CONTRACTOR CAUSING SUCH VIOLATION SHALL BE CORRECTED BY THE CONTRACTOR. PROVIDE ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY FOR A COMPLETE AND SAFE INSTALLATION OF HVAC SYSTEMS IN FULL CONFORMITY WITH REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION. INCLUDE ALL COSTS FOR PERMITS, LICENSES, CERTIFICATES, FILING AND INSPECTIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION; AS INDICATED ON DRAWINGS AND/OR HEREIN SPECIFIED FOR THE SYSTEMS INCLUDED.
- WORK SHALL BE INSTALLED IN A NEAT, WORKMANLIKE MANNER. INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL. ALL SYSTEMS SHALL BE CLEAN OF FOREIGN MATERIAL AND ROUGH SPOTS PRIOR TO BEING PLACED IN SERVICE AND BEFORE OPERATIONAL TESTS ARE PERFORMED. THE CONTRACTOR SHALL THOROUGHLY CLEAN HIS WORK AREA DAILY. CONTRACTOR SHALL THOROUGHLY CLEAN ALL AIR HANDLING UNITS AND REPLACE FILTERS, AS WELL AS REMOVE ALL TRASH AT COMPLETION OF WORK.
- INSTALLATION OF ALL EQUIPMENTS AND THIS ACCESSORIES SHALL BE PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
- THE CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR PROMPTLY AND ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED FOR ANY WORKMANSHIP AND EQUIPMENT IN WHICH DEFECTS DEVELOP WITHIN ONE YEAR FROM THE DATE OF ACCEPTANCE BY OWNER. THIS WORK SHALL BE DONE AS DIRECTED BY THE OWNER. THIS GUARANTEE SHALL ALSO PROVIDE THAT WHERE DEFECTS OCCUR, THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED IN REPAIRING AND REPLACING WORK OF OTHER TRADES AFFECTED BY DEFECTS, REPAIRS OR REPLACEMENTS IN EQUIPMENTS SUPPLIED BY THE CONTRACTOR.
- SUPPORT ALL DUCTWORK FROM BUILDING STRUCTURE AND/OR FRAMING IN AN APPROVED MANNER. WHERE OVERHEAD CONSTRUCTION DOES NOT PERMIT FASTENING OF SUPPORTS FOR EQUIPMENT, FURNISH ADDITIONAL FRAMING.
- FOR EXACT LOCATION OF CEILING DIFFUSERS, GRILLES AND REGISTERS REFER TO REFLECTED CEILING PLAN AND DETAILS. OBTAIN FROM THE ENGINEER THE LOCATION OF ANY APPARATUS NOT DEFINITELY LOCATED ON THE DRAWINGS. LOCATE EQUIPMENT AND ACCESSORIES IN SUCH A MANNER AS TO PROVIDE EASY ACCESS FOR PROPER SERVICE AND MAINTENANCE OF ALL EQUIPMENT AND ITEMS REQUIRING MAINTENANCE.
- REVIEW WITH THE ENGINEER ANY CONDITION WHICH PREVENT ADEQUATE ACCESSIBILITY FOR MAINTENANCE PRIOR TO INSTALLATION OF THE WORK. ALL EQUIPMENT AND/OR ACCESSORIES THAT ARE INSTALLED WITHOUT PROPER ACCESS, IN THE OPINION OF THE ENGINEER, AND INSTALLED WITHOUT THE ENGINEER'S APPROVAL, SHALL BE REMOVED AND REVISED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST TO OWNER.
- ALL WALL AND ROOF OPENINGS SHALL BE WATER PROOFED AND AIR TIGHT SEALED AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
- ALL DUCTS SHALL BE FABRICATED OF GALVANIZED LOCK FORMING QUALITY STEEL, AND INSTALLED IN STRICT COMPLIANCE WITH THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) BULLETIN 90A, THE SHEET METAL AND AIR CONDITIONING CONTRACTORS AND NATIONAL ASSOCIATION (SMACNA) DUCT CONSTRUCTION STANDARDS. SHEET METAL DUCTS SHALL BE FABRICATED USING THE FOLLOWING MINIMUM GAUGES FOR RECTANGULAR DUCT:

DIMENSION OF LONGEST SIDE OF DUCT	MINIMUM GAUGE ALL FOUR SIDES
UP THRU 12"	26 (0.022")
13" THRU 30"	24 (0.028")
31" THRU 54"	22 (0.034")
- ALL DUCT DIMENSIONS SHOWN ARE INSIDE METAL DIMENSIONS AND ARE IN INCHES. DUCT SIZES HAVE BEEN INCREASED, WHERE REQUIRED, TO ALLOW FOR LINING.
- MECHANICAL CONTRACTOR SHALL TAKE ACTUAL MEASUREMENTS IN THE FIELD BEFORE FABRICATION AND SHEET METAL WORK AND SHALL OBSERVE AND ALLOW FOR CLEARANCES AND SPACE REQUIREMENTS FOR PIPING AND EQUIPMENT, OR OTHER OBSTRUCTIONS.
- THE DUCTWORK SHALL INCLUDE FURNISHING AND INSTALLING GALVANIZED SHEET METAL DUCTS, FLEXIBLE CONNECTIONS ROOF/WALL EXHAUST CAP, DUCT SUPPORTERS, REGISTERS, GRILLES, DAMPERS, BRACING AND OTHER ACCESSORIES TO MAKE A COMPLETE AND OPERABLE SYSTEM.
- PROVIDE SQUARE ELBOWS WITH TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES. ALL TURNING VANES SHALL BE 16-GAUGE SINGLE THICKNESS METAL WITH A 4-INCH RADIUS. DOUBLE WALL TURNING VANES ARE NOT ACCEPTABLE.
- ALL JOINTS IN DUCTS, CASINGS, AND PLENUMS SHALL BE SEALED TO PREVENT AIR LEAKAGE. ALL SEALANT AND TAPES SHALL HAVE A FLAME RATING UNDER 25 AND A SMOKE DEVELOPED BY HARDCAST, INC., UNITED SHEET METAL DUCT SEALER OR APPROVED EQUAL. DUCTWORK TAPE SHALL BE HARDCAST, INC., TYPE DT-5300 OR DT-5400 OR APPROVED EQUAL. TAPE ADHESIVE SHALL BE HARDCAST, INC. TYPE FTA-20, OR APPROVED EQUAL.
- BRANCH TAKE-OFF TO THE CEILING MOUNTED DIFFUSERS, NOT EXCEEDING 8FT. IN LENGTH, SHALL BE BY PRE-INSULATED FLEXIBLE DUCT. FLEXIBLE DUCTS SHALL HAVE A R-6 MINIMUM VALUE AND COVERED WITH AN OUTER VAPOR BARRIER JACKET. FLEXIBLE DUCTS SHALL BE ATTACHED TO SHEET METAL MAIN DUCTS USING SPIN-IN CONICAL BELLMOUTH FITTINGS WITH DAMPERS AND LOCKING QUADRANTS.
- ALL HVAC PENETRATIONS THROUGH FIRE RATED WALLS AND CEILING SHALL BE PROTECTED WITH FIRE DAMPERS, CLASSIFIED UNDER UL STANDARD 555.
- A FLEXIBLE CONNECTION AT THE INLET AND OUTLET OF EACH FAN AND AIR CONDITIONING EQUIPMENT SHALL BE PROVIDED. CONNECTION SHALL BE VENTLAS (VENTFABRIC, INC.) OR APPROVED EQUAL, NOT LESS THAN 4 INCHES LONG, INSTALL IN ANGLE OR SHEET METAL FRAMES SECURELY FASTENED TO DUCTS AND EQUIPMENT. JOINTS IN FABRIC SHALL BE SEWN AND MADE AIRTIGHT WITH AN APPROVED SEALER.
- ACCESS DOORS SHALL BE PROVIDED AT EACH FIRE DAMPER LOCATION. ACCESS DOORS SHALL BE RUSKIN (OR APPROVED EQUAL).
- FURNISH AND INSTALL FULL SIZE COIL CONDENSATE DRAIN LINES FROM ALL AIR CONDITIONING UNITS AS INDICATED ON THE MECHANICAL DRAWINGS AND APPROVED BY THE ENGINEER. PIPE SHALL BE TYPE "L" COPPER.
- REFER TO MANUFACTURER GUIDELINES FOR COPPER REFRIGERANT LINES WALL THICKNESS, TEMPER GRADES, AND INSTALLATION. FLUSH ALL LINES WITH NITROGEN.
- REFER TO MANUFACTURER GUIDELINES FOR INSULATING REFRIGERANT LINES.
- MECHANICAL CONTRACTOR SHALL FURNISH SUBMITTALS CONTAINING EQUIPMENT, DUCTWORK AND CONTROL DRAWINGS FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT, OR MATERIAL.
- DUCT INSULATION: R-8 INSULATION FOR ALL SUPPLY AND RETURN DUCT LOCATED IN BUILDING. DUCTWORK OUTSIDE THE BUILDING SHALL BE INSULATED EXTERNALLY USING 2" POLY ISO FOAM BOARD.
- ALL NECESSARY OFFSETS AND ELEVATION CHANGES ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO REFLECT/COORDINATE THE REQUIRED RISE/DROPS WITH FIELD CONDITIONS.
- ALL DUCTWORK SHALL BE RUN CONCEALED ABOVE CEILINGS AS HIGH AS POSSIBLE AND CONCEALED IN WALLS, CHASES, OR FURROUTS IN GENERAL LOCATIONS SHOWN, UNLESS NOTED OTHERWISE.
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE REQUIRED PLUMBING WORK FOR HVAC EQUIPMENT AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. THE PATCHING REQUIRED FOR HVAC WORK SHALL BE BY THE MECHANICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND CIVIL SITE PLANS FOR WORK BY OTHERS.
- ALL AIR HANDLING SYSTEMS TO BE TESTED AND BALANCED BY A NEBB OR AABC CERTIFIED FIRM.

MECHANICAL TAG LEGEND

SYMBOL	DESCRIPTION
	TYPE OF SERVICE: S = SUPPLY R = RETURN E = EXHAUST T = TRANSFER
	INSTALLED LOCATION: C = CEILING D = DUCT F = FLOOR H = HIGH SIDEWALL L = LOW SIDEWALL
	SCHEDULED DEVICE NO
	AIR QUANTITY IN CFM
	EQUIPMENT DESIGNATION UNIT NUMBER
	SECTION NUMBER SHEET WHERE LOCATED
	THERMOSTAT (UNIT & ZONE DESIGNATION)
	KEYED NOTE
	SMOKE DETECTOR
	CEILING SUPPLY DIFFUSER, REGISTER OR GRILLE AS SCHEDULED
	CEILING RETURN GRILLE OR REGISTER AS SCHEDULED
	SLOT DIFFUSER AS SCHEDULED
	SIDEWALL GRILLE OR REGISTER AS SCHEDULED
	ROUND DUCT (INTERNAL SIZE INDICATED)
	DUCT SIZE, FIRST FIGURE IS SIDE SHOWN (INTERNAL SIZE INDICATED)
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER (1-1/2 HR RATED)
	SMOKE DAMPER
	TURNING VANES
	CONDENSATE DRAIN LINE
	FLOW IN DIRECTION OF ARROW
	SLOPE DOWN IN DIRECTION OF ARROW
	GATE VALVE
	BUTTERFLY VALVE
	BALL VALVE
	UNION
	CAP
	RISE AND DROP IN PIPING
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	HUMIDISTAT (UNIT & ZONE DESIGNATION)
	TEMPERATURE SENSOR
	SMOKE DETECTOR
	RETURN AIR THERMOSTAT

NOTE: NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED

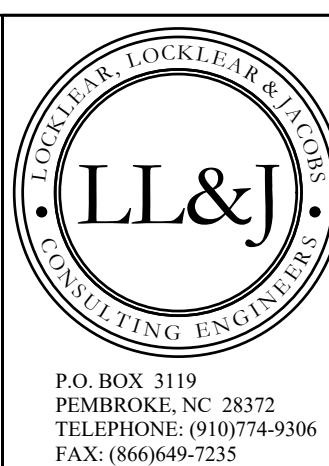
MECHANICAL ABBREVIATIONS

A	AIR OR COMPRESSED AIR	FF	FINAL FILTER	P	PUMP
AC	AIR CONDITIONING	FLA	FULL LOAD AMPS	PCF	POUNDS PER CUBIC FOOT
ACCH	AIR COOLED CHILLER	FLEX	FLEXIBLE	PD	PRESSURE DROP
ACD	AUTOMATIC CONTROL DAMPER	FLDR	FLOOR DRAIN	PF	PRE-FILTER
ACP	AIR COMPRESSOR	FMS	FLOW MEASURING STATION	PH	PHASE
AD	ACCESS DOOR	FPM	FEET PER MINUTE	PHC	PRE-HEAT COIL
AEL	AIR ELIMINATOR	FPS	FEET PER SECOND	PRV	PRESSURE REDUCING VALVE
AF	AIR FOIL	FRP	FIBERGLASS REINFORCED PLASTIC	PSI	POUNDS PER SQUARE INCH
AF F	ABOVE FINISHED FLOOR	FS	FLOW SWITCH	PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
AFG	ABOVE FINISHED GRADE	FT	FEET	PSID	POUNDS PER SQUARE INCH - DIFFERENTIAL
AHU	AIR HANDLING UNIT	FTK	FLASH TANK	PSIG	POUNDS PER SQUARE INCH - GAUGE
AMP	AMPERE	FTR	FIN TUBE RADIATION	PUX	PUMP/HEAT EXCHANGER
AP	ACCESS PANEL	G	GAS	PVC	POLYVINYL CHLORIDE
APD	AIR PRESSURE DROP	GA	GAUGE	R	RADIUS
AS	AIR STREAM	GAL	GALLONS	RA	RETURN AIR
ATC	AUTOMATIC TEMPERATURE CONTROL	GALV	GALVANIZED	RD	RELIEF DAMPER
ATM	ATMOSPHERE	GFU	GLYCOL FEED UNIT	RE	RELOCATE EXISTING
BDD	BACK-DRAFT DAMPER	GLYP	GLYCOL PUMP	RET	RETURN
BF	BOOSTER FAN	GPH	GALLONS PER HOUR	REF	REFRIGERANT
BHP	BRAKE HORSEPOWER	GPM	GALLONS PER MINUTE	RF	RETURN FAN
BI	BACKWARDS INCLINED	GR	GRADE	RGH	RELIEF GRAVITY HOOD
BOD	BOTTOM OF DUCT	GX	GENERAL EXHAUST	RH	RELATIVE HUMIDITY OR RELIEF HOOD
BTU	BRITISH THERMAL UNIT	H	HUMIDIFIER	RHC	REHEAT COIL
BTUH	BTU PER HOUR	HB	HOSE BIB (CONNECTION)	RL	RELIEF LOUVER
CC	COILING COIL	HC	HEATING COIL	RLA	RUNNING LOAD AMPS
CENT	CENTER OR CENTRIFUGAL	HD	HEAD	RLM	RELIEF
CF	CUBIC FEET	HOA	HAND OFF AUTOMATIC	RPM	REVOLUTIONS PER MINUTE
CFM	CUBIC FEET PER MINUTE	HP	HORSEPOWER OR HIGH POINT	RT	RETURN AIR THERMOSTAT
CFP	CHEMICAL FEED PUMP	HR	HOUR	RTU	ROOF-TOP UNIT
CH	CHILLED OR CHILLER	HRU	HEAT RECOVERY UNIT	SA	SUPPLY AIR OR SOUND ATTENUATOR
CHW	CHILLED WATER	HTG	HEATING	SCR	SCREEN
CHP	CHILLED WATER PUMP	HV	HEATING AND VENTILATION UNIT	SCT	SATURATED CONDENSING TEMPERATURE
CHWR	CHILLED WATER RETURN	HWR	HOT WATER RETURN	SD	SMOKE DETECTOR OR SMOKE DAMPER
CHWS	CHILLED WATER SUPPLY	HWS	HOT WATER SUPPLY	SE	SMOKE EXHAUST
CO	CARBON MONOXIDE	HZ	HERTZ (CYCLES PER SECOND)	SEF	SMOKE EXHAUST FAN
CONN	CONNECTION	ID	INSIDE DIAMETER	SEN	SENSIBLE
CONV	CONVERTER	IH	INFRARED HEATER	SEP	SEPARATOR
CP	CONDENSATE PUMP	IL	INTAKE LOUVER	SF	SUPPLY FAN
CRAC	COMPUTER ROOM AC UNIT	IN	INCHES	SFD	COMBINATION SMOKE / FIRE DAMPER
CT	COILING TOWER	KW	KILOWATT	SH	SUPPLY HOOD
CTBD	COOLING TOWER BLOW DOWN	KVU	KITCHEN VENTILATION UNIT	SHC	SENSIBLE HEAT CAPACITY
CUH	CABINET UNIT HEATER	LB	POUND	SIH	SUPPLY INTAKE HOOD
CWP	CONDENSER WATER PUMP	LF	LINEAR FEET	SP	STATIC PRESSURE
CWR	CONDENSER WATER RETURN	LD	LINEAR DIFFUSER	SF	SQUARE FEET
CWS	CONDENSER WATER SUPPLY	LP	LOW POINT	SS	STAINLESS STEEL
D	DRAIN	LPS	LOW PRESSURE STEAM	SSF	SMOKE SUPPLY FAN
DB	DRY BULB (TEMPERATURE)	LRA	LOCKED ROTOR AMPS	SUP	SUPPLY
DEG	DEGREE	LVR	LOUVER	T	TEMPERATURE OR THERMOSTAT
DDC	DIRECT DIGITAL CONTROL	LVDR	LOUVERED DOOR	TEFC	TOTALLY ENCLOSED FAN COOLED TEMPERATURE
DHC	DUCT RE-HEAT COIL	LVG	LEAVING	TK	TANK
DIA	DIAMETER	LWT	LEAVING WATER TEMPERATURE	TON	12,000 BTUH (COOLING CAPACITY)
DIM	DIMENSION	MAU	MAKE UP AIR UNIT	TRF	TRANSFER AIR FAN
DP	DIFFERENTIAL PRESSURE	MAX	MAXIMUM	TRP	TRANSFER PUMP
EA	EACH OR EXHAUST AIR	MBH	1000 BTUH	TSP	TOTAL STATIC PRESSURE
EAHU	EXHAUST AIR HANDLING UNIT	MCA	MINIMUM CIRCUIT AMPS	TSTAT	THERMOSTAT
EAT	ENTERING AIR TEMPERATURE	MCP	MAIN CONDENSATE PUMP	TX	TOILET EXHAUST
EDH	ELECTRIC DUCT HEATER	MD	MOTORIZED DAMPER	TX	TYPICAL
EF	EXHAUST FAN	MECH	MECHANICAL	UC	UNDERCUT (DOOR)
EMER	EMERGENCY	MIN	MINIMUM	UH	UNIT HEATER
EMS	ENERGY MANAGEMENT SYSTEM	MU	MAKE-UP WATER	V	VOLTS
ERU	ENERGY RECOVERY OUTSIDE AIR	MUA	MAKE-UP AIR	VAV	VARIABLE AIR VOLUME
ESP	EXTERNAL STATIC PRESSURE	N	NEW	VD	VOLUME DAMPER
ET	EXPANSION TANK	NC	NOISE CRITERIA OR NORMALLY CLOSED	VEL	VELOCITY
EUH	ELECTRICAL UNIT HEATER	NO	NORMALLY OPEN	VFD	VARIABLE FREQUENCY DRIVE
EWT	ENTERING WATER TEMPERATURE	NOM	NOMINAL	WB	WET BULB TEMPERATURE
EX	EXISTING	OA	OUTSIDE AIR	WC	WATER COLUMN
EXH	EXHAUST	OAI	OUTSIDE AIR INTAKE	WCCH	WATER COOLED CHILLER
EXT	EXTERNAL	OC	ON CENTER	WG	WATER GAUGE
EXP	EXPANSION	OD	OUTSIDE DIAMETER	WPD	WATER PRESSURE DROP
F	FAHRENHEIT OR FILTER	ODP	OPEN DRIP PROOF	WTD	WATER TEMPERATURE DIFFERENCE
FA	FREE AREA OR FIRE ALARM	OV	OUTLET VELOCITY	WTS	WATER TEMPERATURE SENSOR
FC	FLEXIBLE CONNECTION				
FCU	FAN COIL UNIT				
FD	FLOOR DRAIN, FIRE DAMPER, OR FIRE DEPARTMENT				
FDP	FLUID DISTRIBUTION POINT				

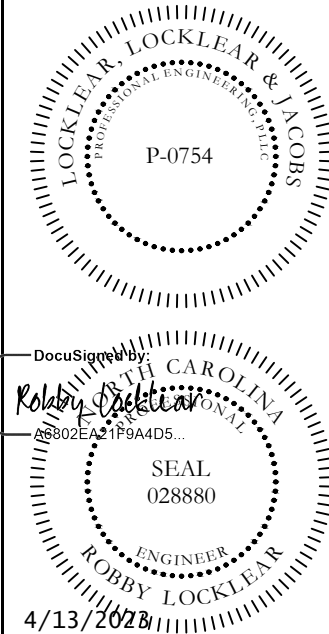
NOTE: NOT ALL ABBREVIATIONS MAY APPLY TO PLANS

MECHANICAL SUMMARY	
MECH. SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
THERMAL ZONE	
WINTER DRY BULB:	27° F
SUMMER DRY BULB:	95° F
INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB:	70° F
SUMMER DRY BULB:	75° F
RELATIVE HUMIDITY:	50%
BUILDING HEATING LOAD:	15,000 BTU/HR
BUILDING COOLING LOAD:	2.6 TONS
MECHANICAL SPACING CONDITIONING SYSTEM	
UNITARY	
DESCRIPTION OF UNIT:	HEAT PUMP
HEATING EFFICIENCY:	SEE EQUIPMENT SCHEDULES
COOLING EFFICIENCY:	SEE EQUIPMENT SCHEDULES
SIZE CATEGORY OF UNIT:	
BOILER	
SIZE CATEGORY: IF OVERSIZED, STATE REASON:	N/A
CHILLER	
SIZE CATEGORY: IF OVERSIZED, STATE REASON:	N/A
LIST EQUIPMENT EFFICIENCIES:	

DRAWING INDEX			
SHEET	SHEET TITLE	REV #	DATE
M-001	MECHANICAL NOTES LEGEND AND ABBREVS	1	4/13/2023
M-101	MECHANICAL PLAN	1	4/13/2023
M-102	MECHANICAL CONDENSATE PLAN	-	
M-301	MECHANICAL DETAILS	-	



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4/13/2023

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PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
1	4/13/2023	THERMAL ZONE TEMPERATURES UPDATED.
2		
3		
4		
5		

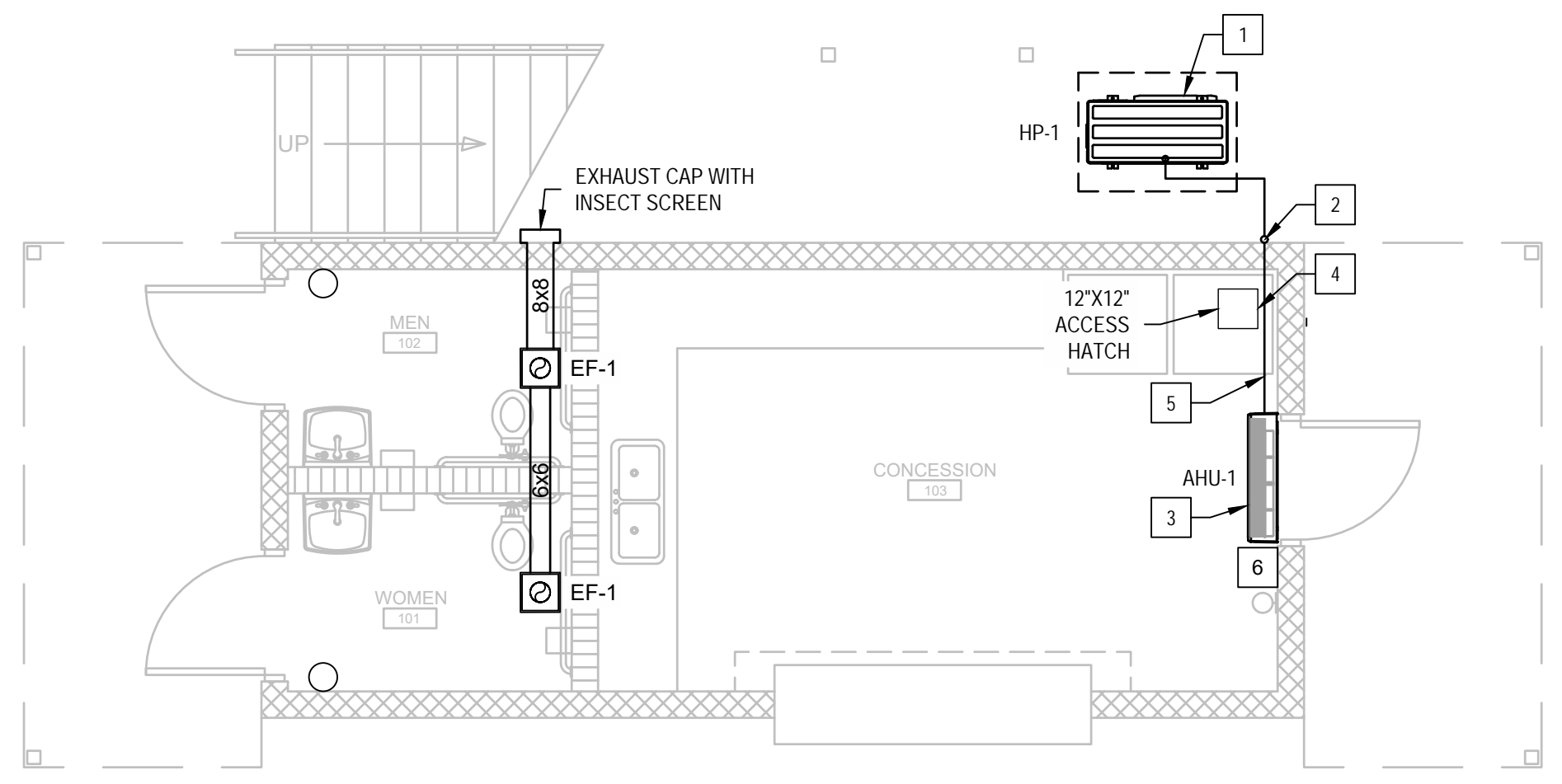
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DRAWN BY: CKD
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SHEET TITLE

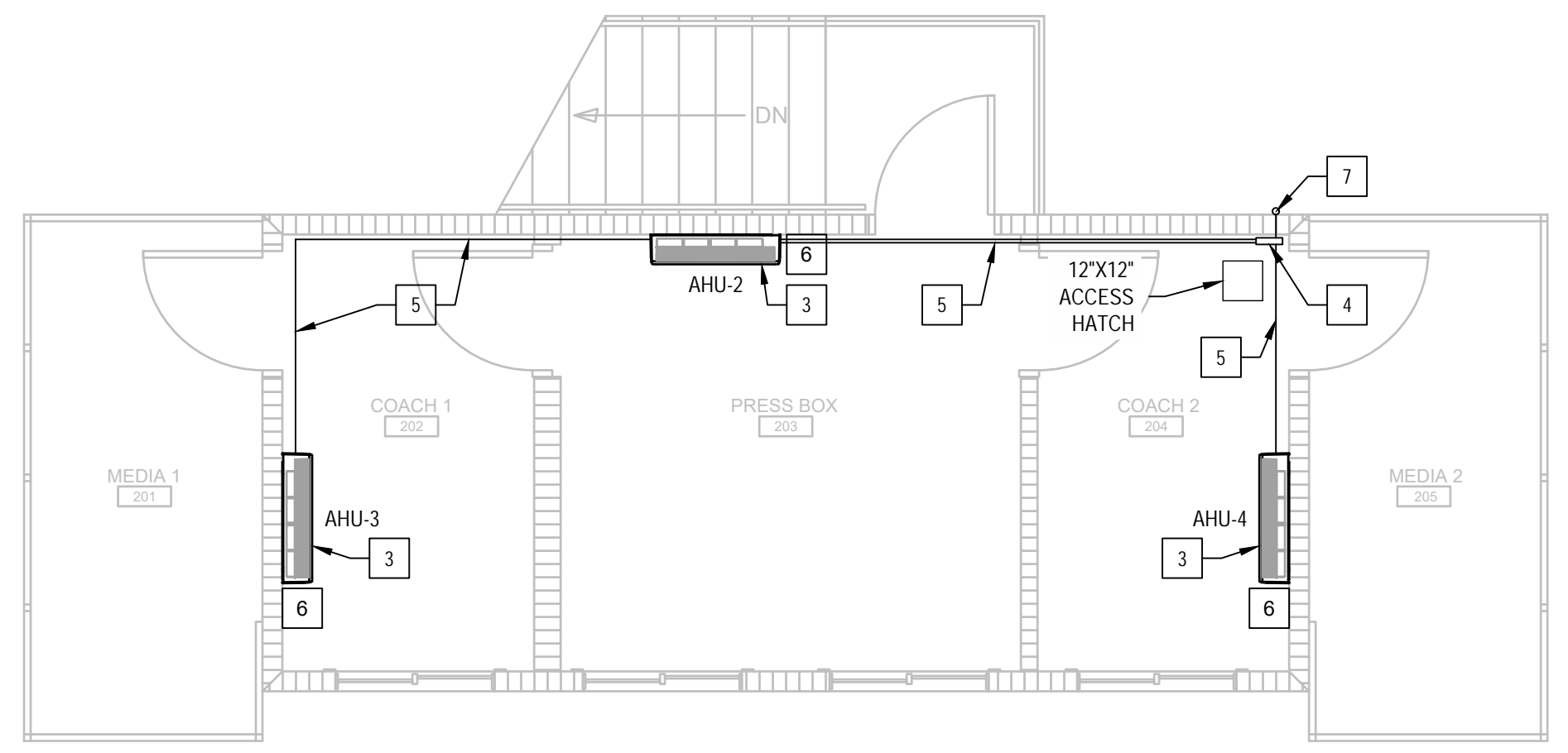
MECHANICAL NOTES LEGEND AND ABBREVS

SHEET NUMBER
M-001
PROJECT# 21-11110

Printed: Thu 13-Apr-2023 - 01:18PM



1 FIRST FLOOR MECHANICAL PLAN
SCALE: 1/4" = 1'-0"



2 SECOND FLOOR MECHANICAL PLAN
SCALE: 1/4" = 1'-0"

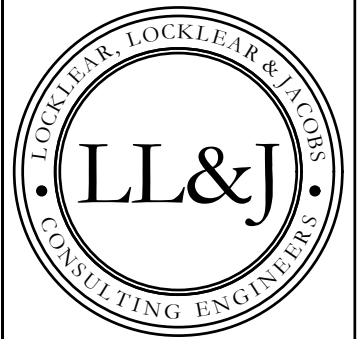
EQUIPMENT SCHEDULE										
TAG	MITSUBISHI MODEL #	DESCRIPTION	VOLT, ϕ , Hz	MCA	MOCP	AIRFLOW (CFM)	NOMINAL COOLING CAPACITY	NOMINAL HEATING CAPACITY @ 17°F	SEER	EER
HP-1	NTXMSM36A142AA	HEAT PUMP	208-230, 1, 60	29	40	N/A	36,000 BTU/H	26,400 BTU/H	23	15
AHU-1,2	TPKFYP012LM140A	WALL MTD.	208-230, 1, 60	0.24	15	152-297	12,000 BTU/H	13,500 BTU/H	N/A	N/A
AHU-3,4	TPKFYP008LM140A	WALL MTD.	208-230, 1, 60	0.24	15	141-237	8,000 BTU/H	9,000 BTU/H	N/A	N/A

- NOTES:
- EQUIPMENT AS MANUFACTURED BY MITSUBISHI OR APPROVED EQUAL BY FUJITSU / LG / CARRIER.
 - LINE SET COVERS AS MANUFACTURED BY DIVERSITECH OR EQUAL BY RECTORSEAL / FORTRESS.
 - HARD WIRED THERMOSTATS FOR FOR EACH AREA (TOTAL OF 4 WIRED THERMOSTATS).
 - REFRIGERANT LINES TO BE HARD COPPER, REFRIGERANT LINE SIZING PER MANUFACTURER'S GUIDELINES.
 - AHU'S 2,3,4 TO REQUIRE CONDENSATE PUMP.

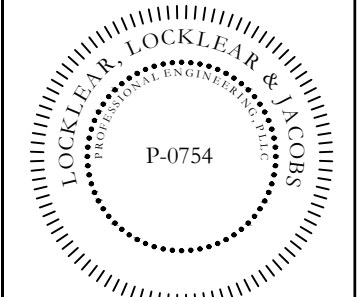
EXHAUST FAN SCHEDULE								
TAG	MAKE	MODEL	MOUNTING TYPE	CFM	EXT STATIC AT MAX FLOW (IN. WG)	MAX INPUT WATTS	AMPS	NOTES
EF-1	BROAN/NUTONE	765H80L	CEILING	80	.25	1300	12.5	FAN WITH 1300W HEATER

- NOTES:
- ACCEPTABLE ALTERNATE MANUFACTURES ARE BROAN AND PENN.
 - PROVIDE FAN WITH INSULATED HOUSING, FLEXIBLE DUCT CONNECTORS AND GRAVITY BACK DRAFT DAMPER.

- KEY NOTES:
- HEAT PUMP-1 (INSTALLED ON 4" CONCRETE PAD). COORDINATE LOCATION WITH OWNER/ENGINEER.
 - LINE SET TO TRANSITION UP EXTERIOR WALL TO THE FIRST LEVEL AND PENETRATE EXTERIOR WALL BELOW CEILING(COORDINATE LOCATION).
 - AHU (WALL MOUNTED). COORDINATE LOCATION WITH OWNER/ENGINEER.
 - BRANCH JOINT ABOVE ACCESS HATCH. COORDINATE LOCATION WITH OWNER/ENGINEER.
 - LINE SET(S) TO BE INSTALLED TIGHT AGAINST CEILING/WALL IN LINE SET COVER. LINE SET COVER TO CONTAIN ALL LINE SET(S), POWER, CONTROL, AND CONDENSATE. CONTRACTOR TO ENSURE LINE SET COVERS ARE ADEQUATELY SIZED.
 - INSTALL 7 DAY PROGRAMMABLE THERMOSTAT(TO BE MOUNTED ON THERMAL BLOCK). COORDINATE LOCATION WITH OWNER/ENGINEER.
 - LINE SET TO TRANSITION UP EXTERIOR WALL TO THE SECOND LEVEL AND PENETRATE EXTERIOR WALL BELOW CEILING(COORDINATE LOCATION).



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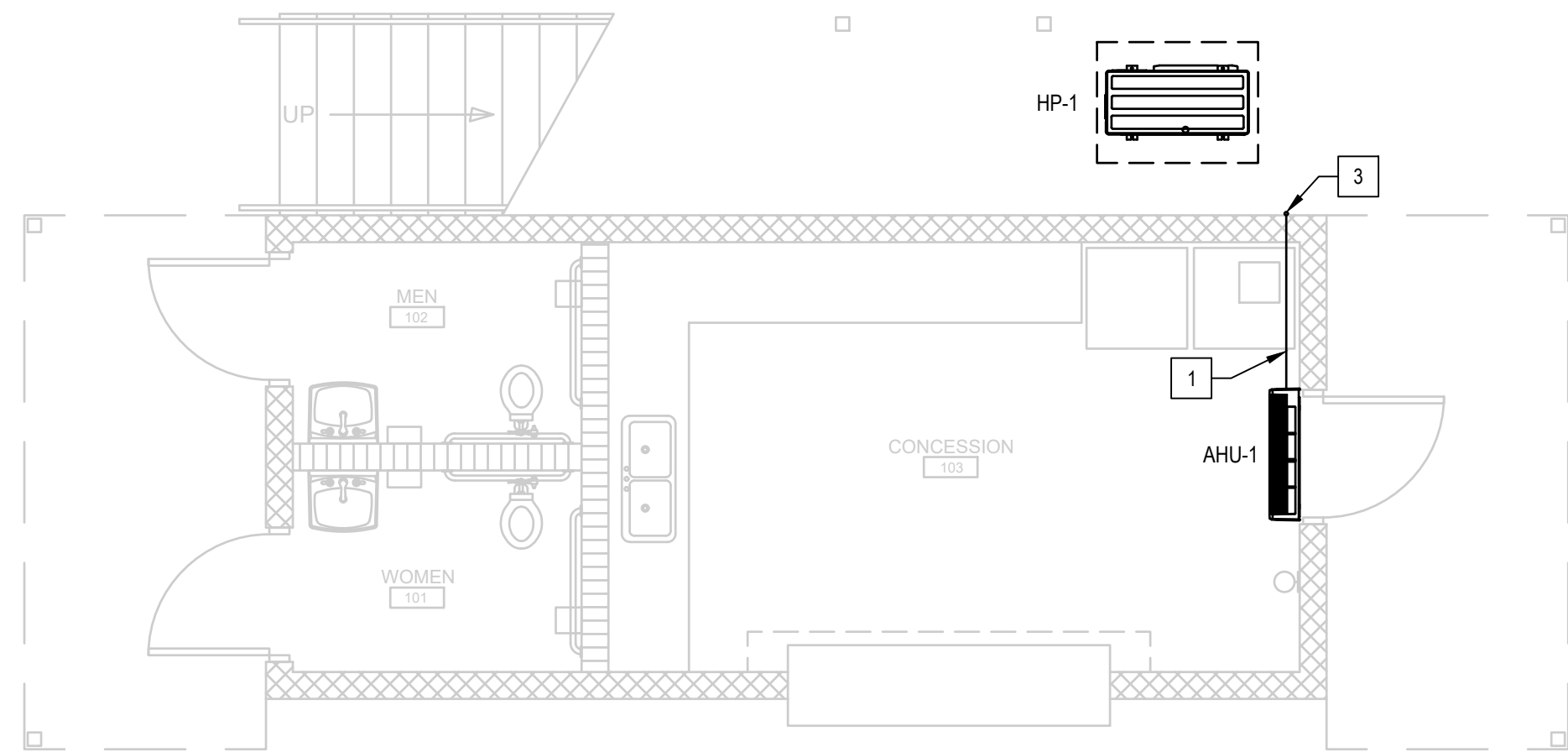


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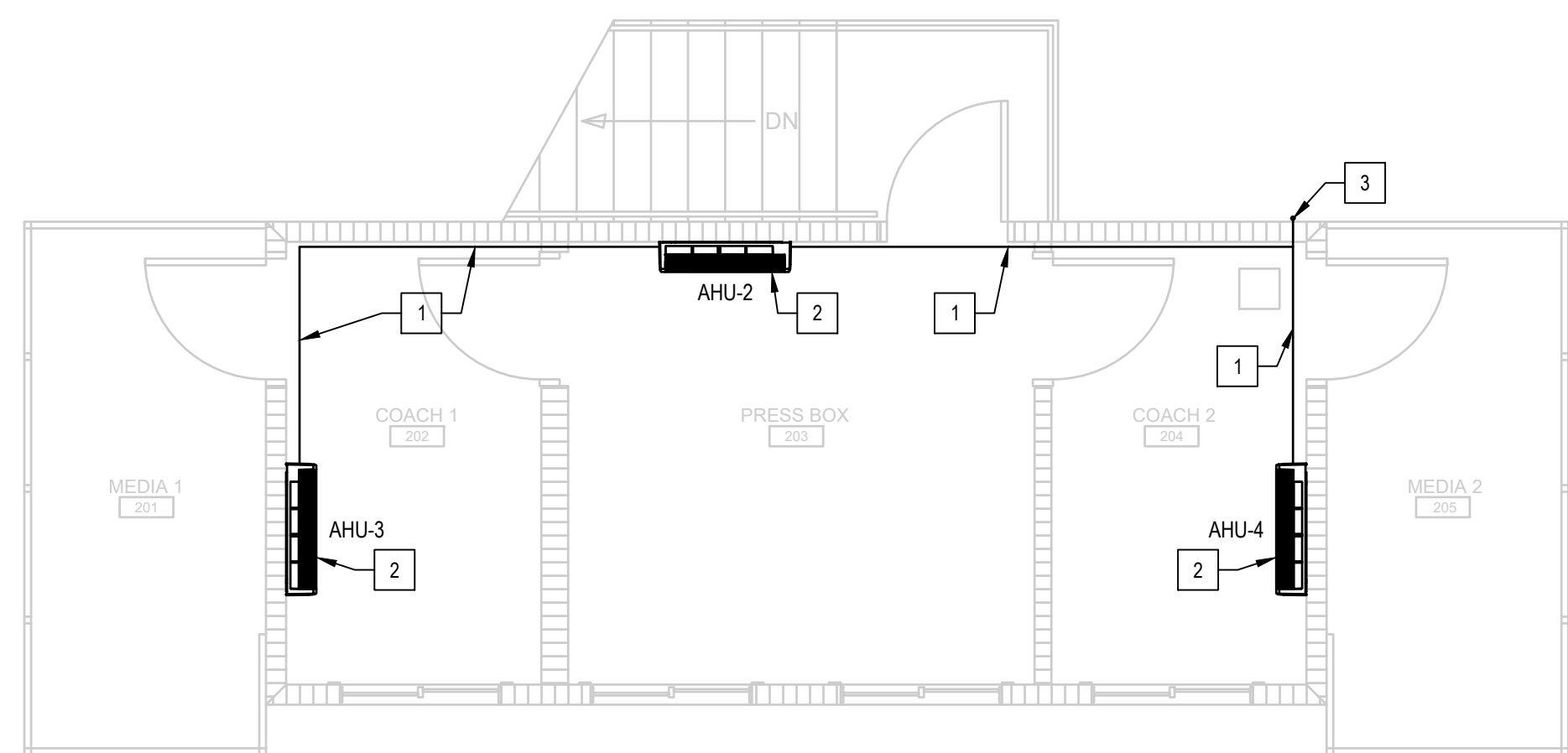
REVISION	DATE	DESCRIPTION
1	4/13/2023	EXHAUST FAN MODEL CHANGED

DATE: 1/10/2023
DRAWN BY: CKD
CHECKED BY: RL
SHEET TITLE: MECHANICAL PLAN
SHEET NUMBER: M-101
PROJECT#: 21-11110

C:\Users\CARLOS-1\AppData\Local\Temp\Publsh_22680\21-11110 Harnett Central Press Box MEP (CKD).dwg, M-101 MECHANICAL PLAN, Carlos-LL&



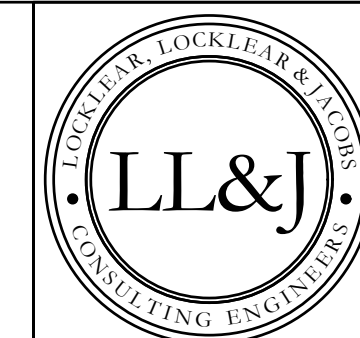
1 FIRST FLOOR MECHANICAL CONDENSATE PLAN
SCALE: 1/4" = 1'-0"



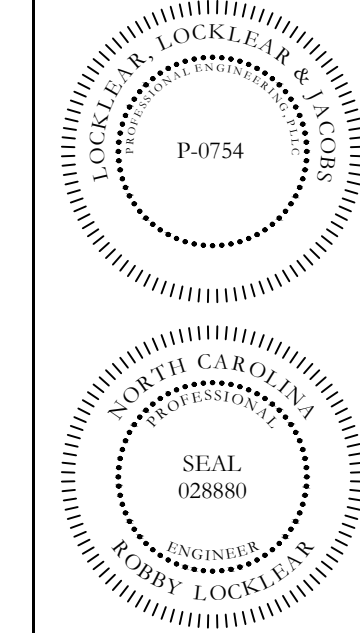
2 SECOND FLOOR MECHANICAL CONDENSATE PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES:

- 1 LINE SET(S) TO BE INSTALLED TIGHT AGAINST CEILING/WALL IN LINE SET COVER. LINE SET COVER TO CONTAIN ALL LINE SET(S), POWER, CONTROL, AND CONDENSATE. CONTRACTOR TO ENSURE LINE SET COVERS ARE ADEQUATELY SIZED.
- 2 AHU TO INCLUDE CONDENSATE PUMP. COORDINATE CONDENSATE ROUTE WITH OWNER/ENGINEER.
- 3 CONDENSATE TO PENETRATE EXTERIOR WALL AND TRANSITION DOWN EXTERIOR WALL. COORDINATE CONDENSATE DISCHARGE WITH OWNER/ENGINEER. CONDENSATE SIZE AND MATERIAL PER MANUFACTURER. EXTERIOR CONDENSATE TO HAVE FULL LENGTH ALUMINUM COVER.



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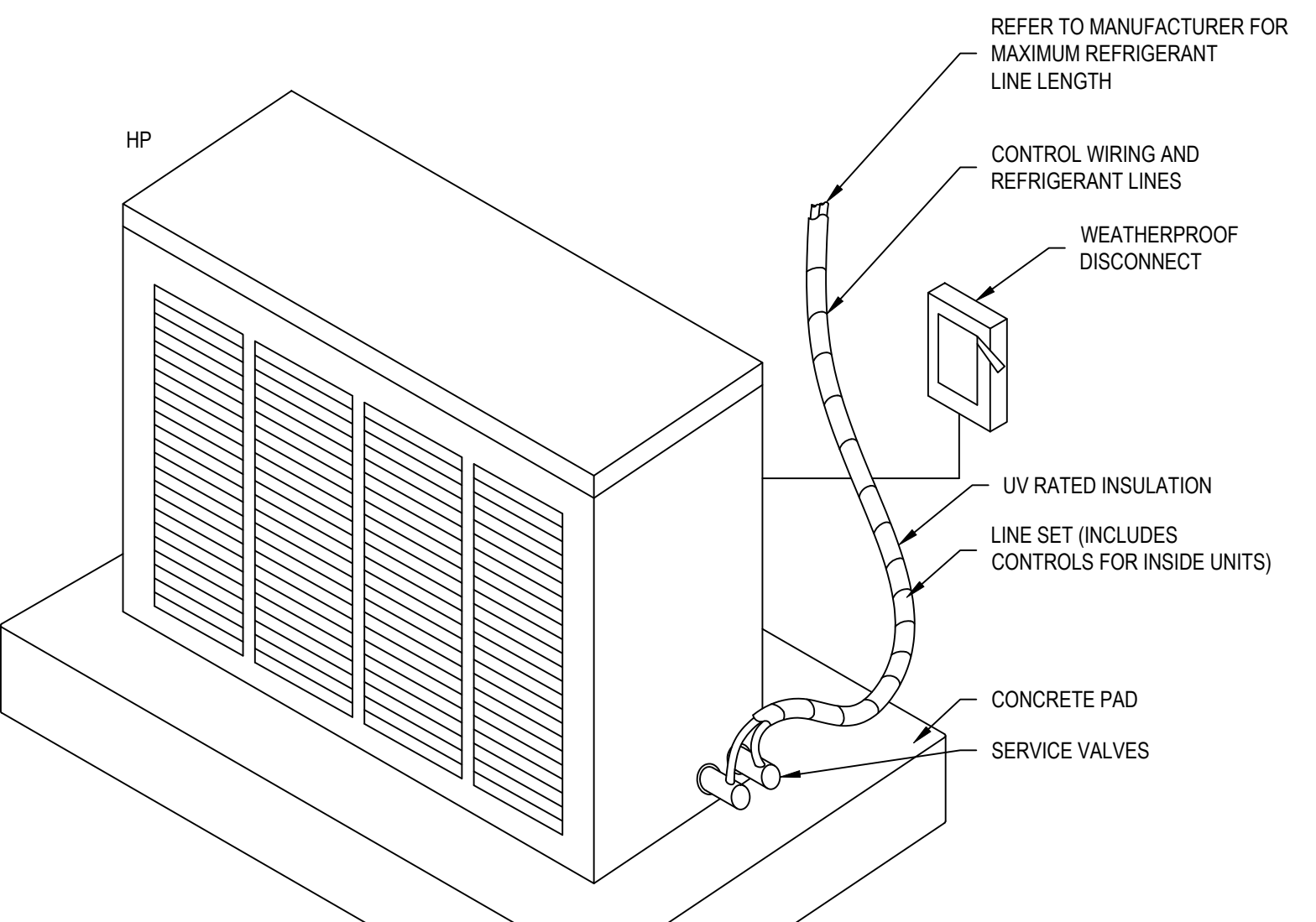
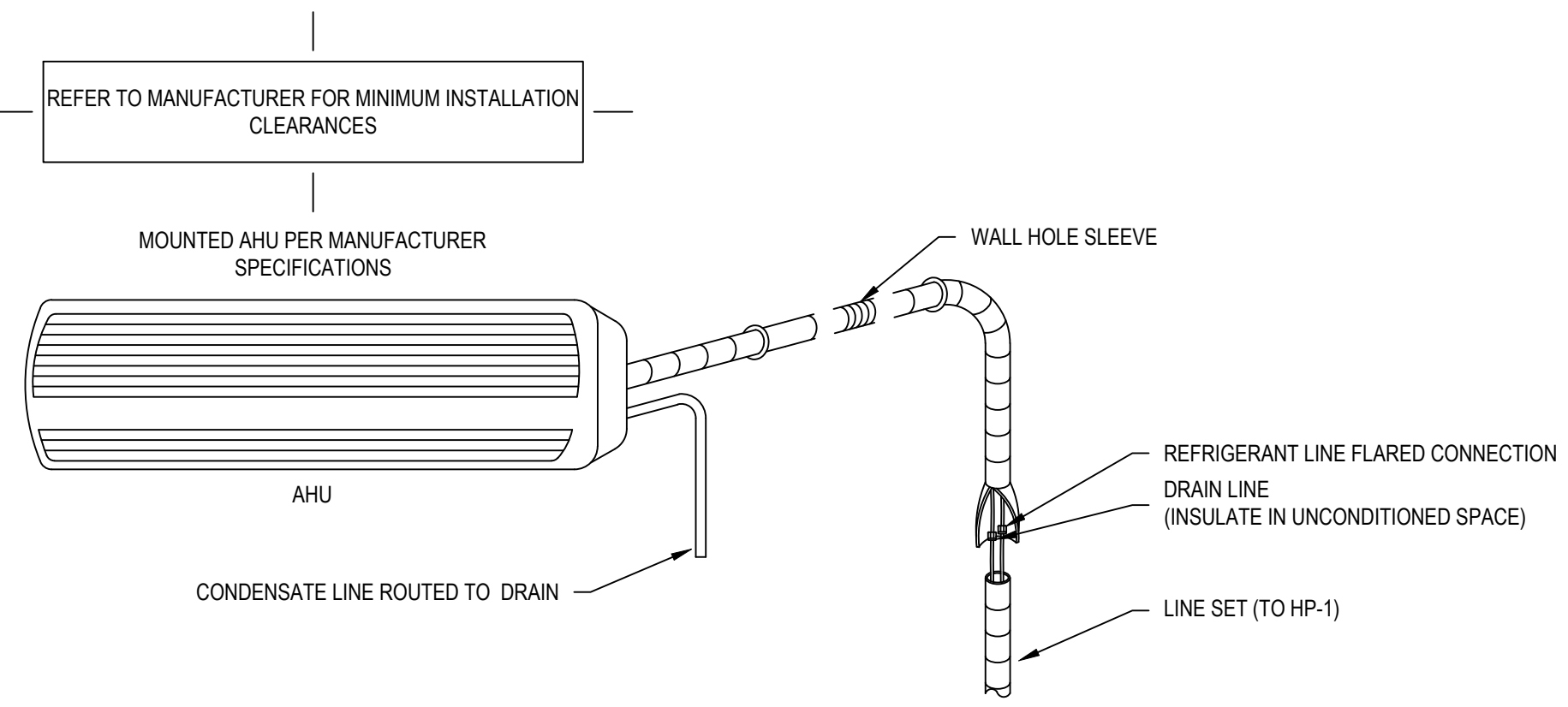
PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
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DATE: 5/9/2022
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CHECKED BY: RL
SHEET TITLE

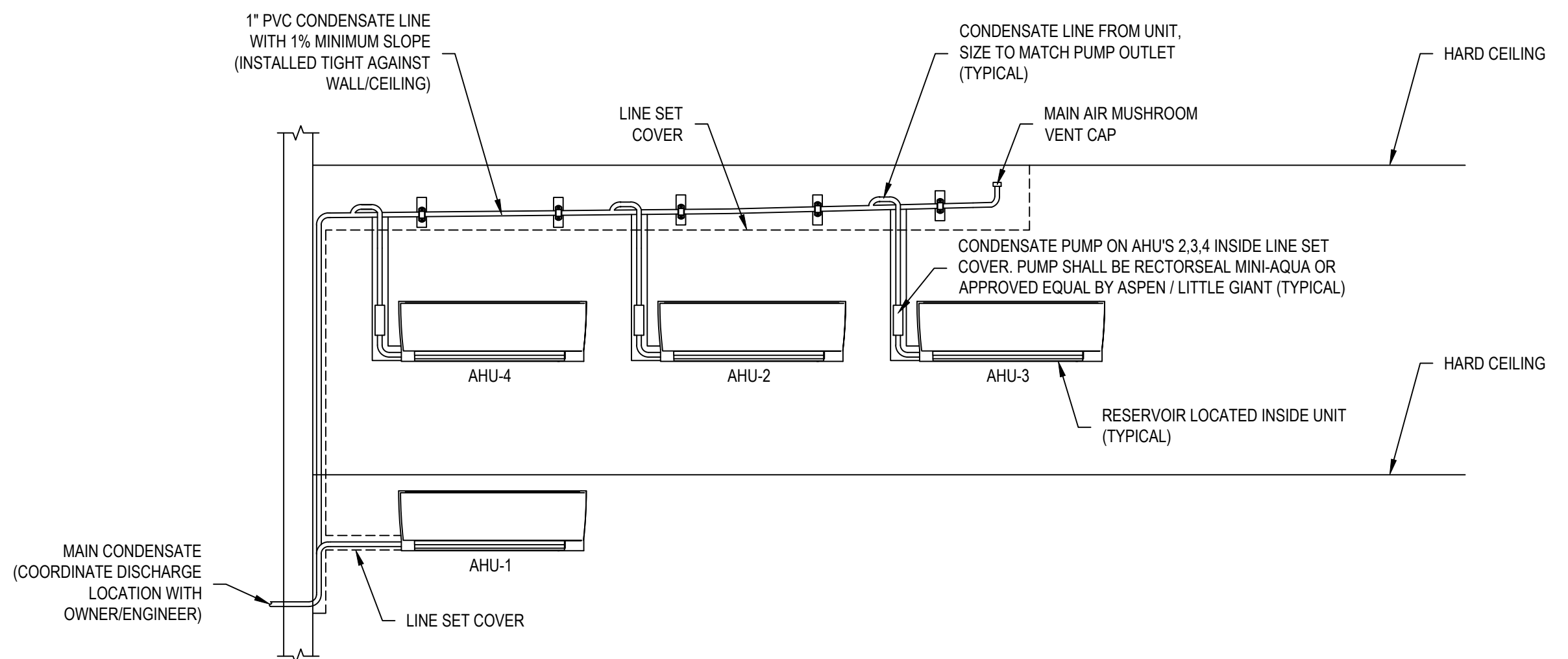
MECHANICAL CONDENSATE PLAN

SHEET NUMBER
M-102
PROJECT# 21-11110



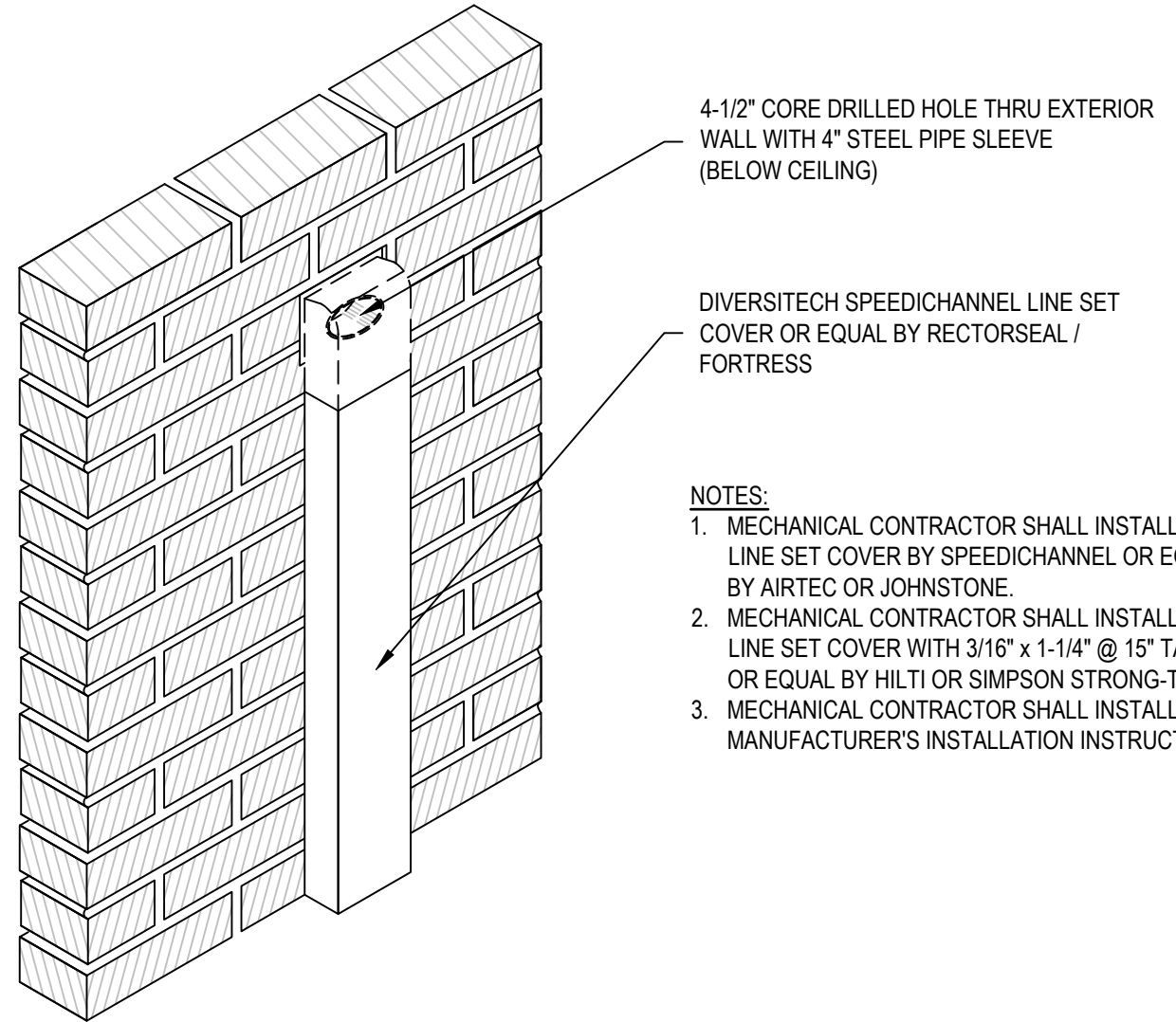
- HVAC NOTES:**
1. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF FIXTURES, PIPING AND EQUIPMENT.
 2. PATCH ALL OPENINGS IN BUILDING CONSTRUCTION WHERE PIPING PENETRATES WALLS, ROOF, ETC. PATCHING SHALL BE SAME MATERIALS AS SURROUNDING CONSTRUCTION. FINISH TO MATCH EXISTING CONSTRUCTION TO THE EXTENT POSSIBLE.
 3. MINI SPLIT HEAT PUMP SYSTEM TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS AND MINI SPLIT HEAT PUMP SYSTEM TO BE INSTALLED AND ALL APPLICABLE NATIONAL/LOCAL ELECTRICAL, MECHANICAL AND BUILDING CODES.
 4. SYSTEM TO BE INSTALLED ACCORDING TO MANUFACTURER SPECIFICATIONS, ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL, MECHANICAL AND BUILDING CODES.
 5. REFER TO MANUFACTURER FOR MINIMUM INSTALLATION CLEARANCES AND MAXIMUM REFRIGERANT LINE LENGTH.

1 TYPICAL MINI-SPLIT HEAT PUMP DETAIL
NTS



- NOTES:**
1. RESERVOIR TO HAVE HIGH LIMIT, AHU TO SHUT DOWN WHEN HIGH LIMIT IS REACHED.
 2. ALL AHU'S TO BE SURFACE MOUNTED BELOW CEILING.

2 TYPICAL CONDENSATE DRAINAGE DETAIL
NTS



- NOTES:**
1. MECHANICAL CONTRACTOR SHALL INSTALL THE LINE SET COVER BY SPEEDICHANNEL OR EQUAL BY AIRTEC OR JOHNSTONE.
 2. MECHANICAL CONTRACTOR SHALL INSTALL THE LINE SET COVER WITH 3/16" x 1-1/4" @ 15" TAPCON OR EQUAL BY HILTI OR SIMPSON STRONG-TIE.
 3. MECHANICAL CONTRACTOR SHALL INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

3 TYPICAL LINE SET PITCH POCKET DETAIL
NTS

THIS DRAWING IS SCHEMATIC IN NATURE. FINAL ROUTING OF PIPING AND WIRING SHALL BE DETERMINED BY THE INSTALLING CONTRACTOR AND/OR DESIGNER OF RECORD. ADDITIONAL REFRIGERANT CHARGE IS NEEDED DEPENDING ON THE SIZE AND LENGTH OF EXTENDED PIPING. PLEASE REFER THE AMOUNT OF PRE-CHARGE AND THE FORMULA OF CALCULATION WHICH IS MENTIONED ON THE DATA BOOK. 1.25MM²(16AWG); 1.25MM²(16AWG) OR MORE; 0.75MM²(20AWG); BETWEEN 0.5MM²(24AWG) AND 0.75MM²(20AWG).

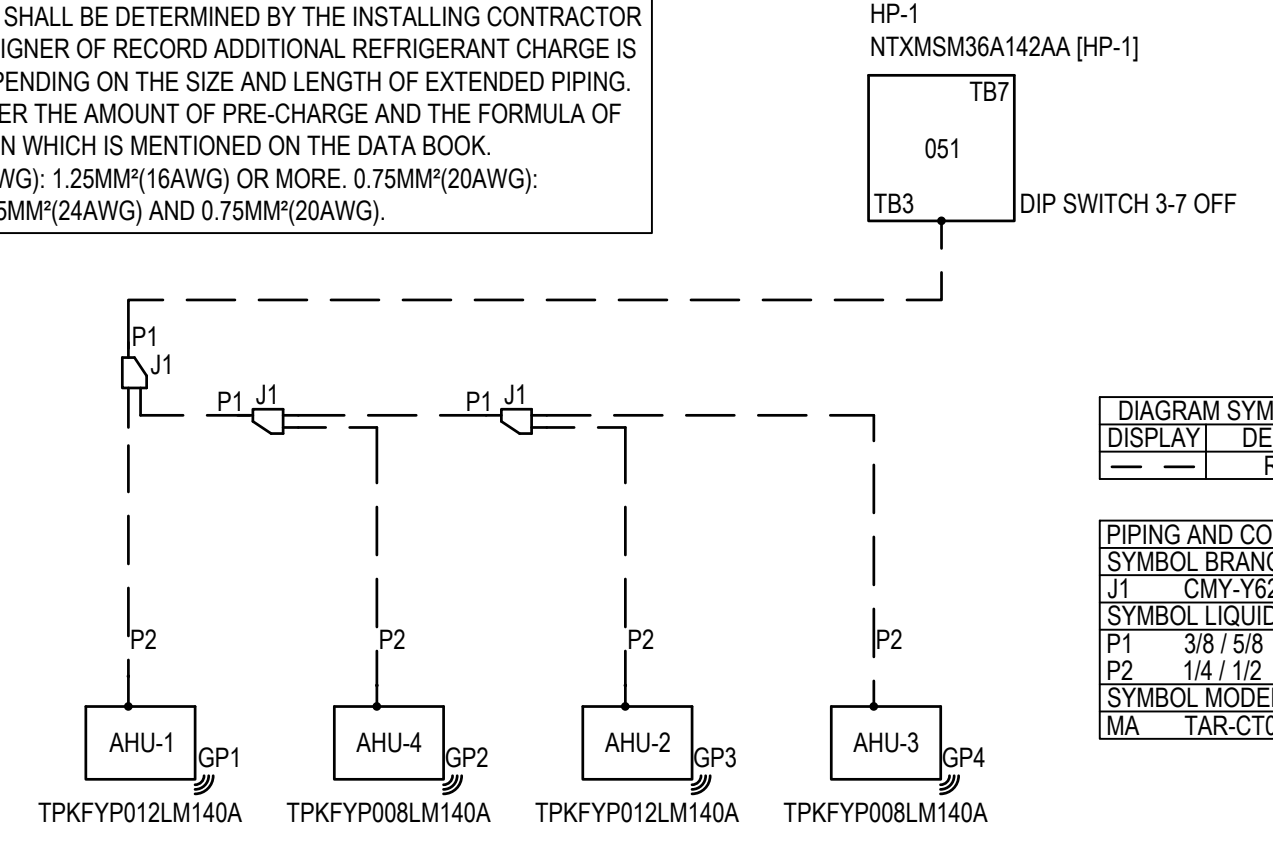
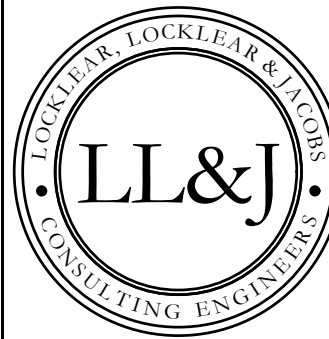


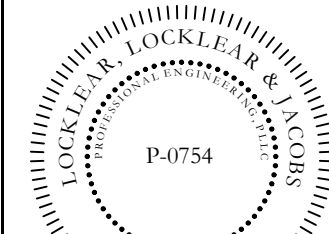
DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
—	REF. PIPE

PIPING AND CONTROLS	
SYMBOL	BRANCH PIPE MODEL NAME
J1	CRV-Y62-G-E
SYMBOL LIQUID PIPE/GAS PIPE SIZE	
P1	3/8 / 5/8
P2	1/4 / 1/2
SYMBOL MODEL NUMBER	
MA	TAR-CT01MAU-SB

4 TYPICAL DUCTLESS SYSTEM PIPING SCHEMATIC DETAIL
NTS



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ENGINEER
ROBBY L. LOCKLEAR

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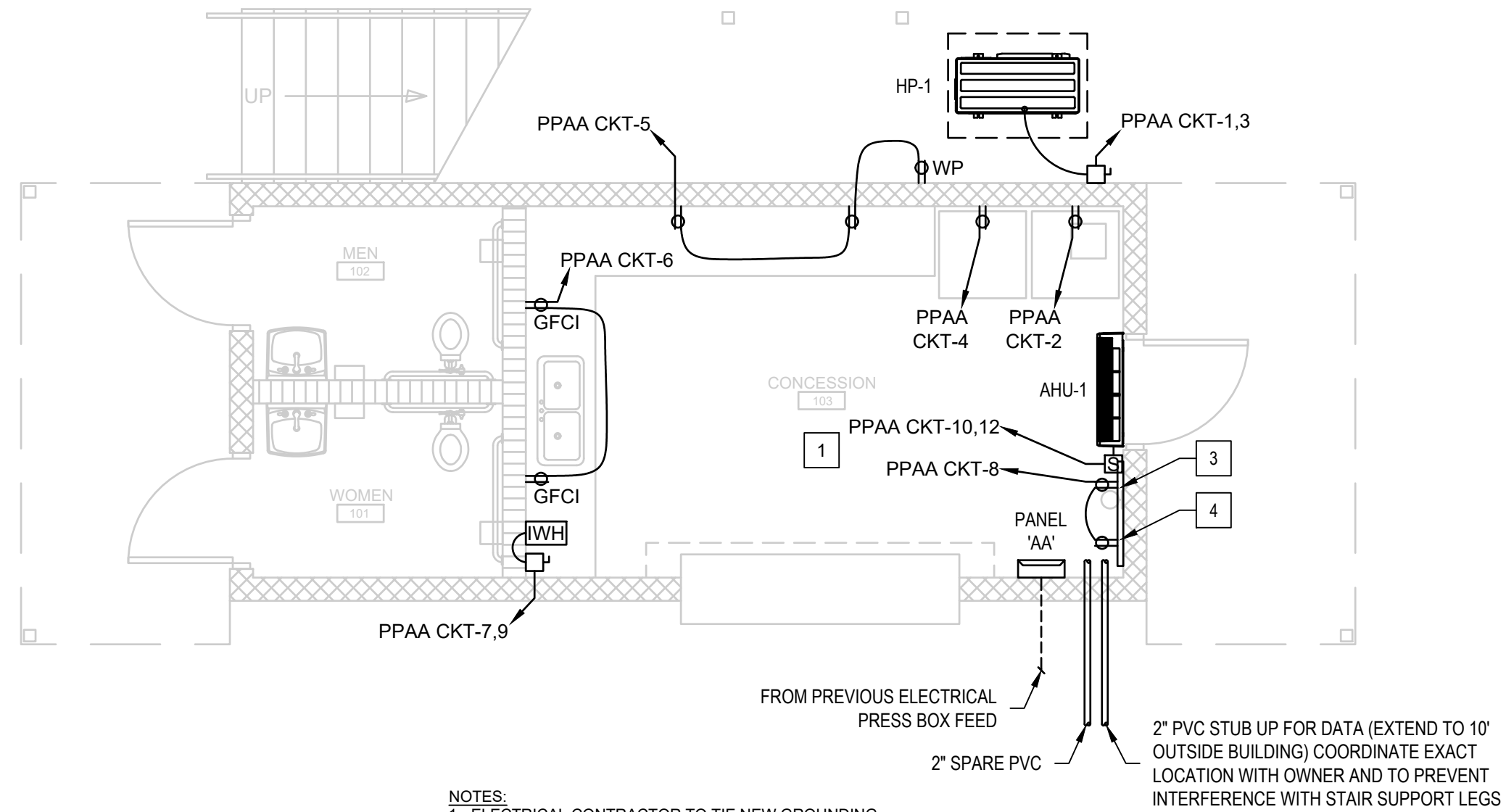
REV#	DATE	DESCRIPTION
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SHEET TITLE

MECHANICAL DETAILS

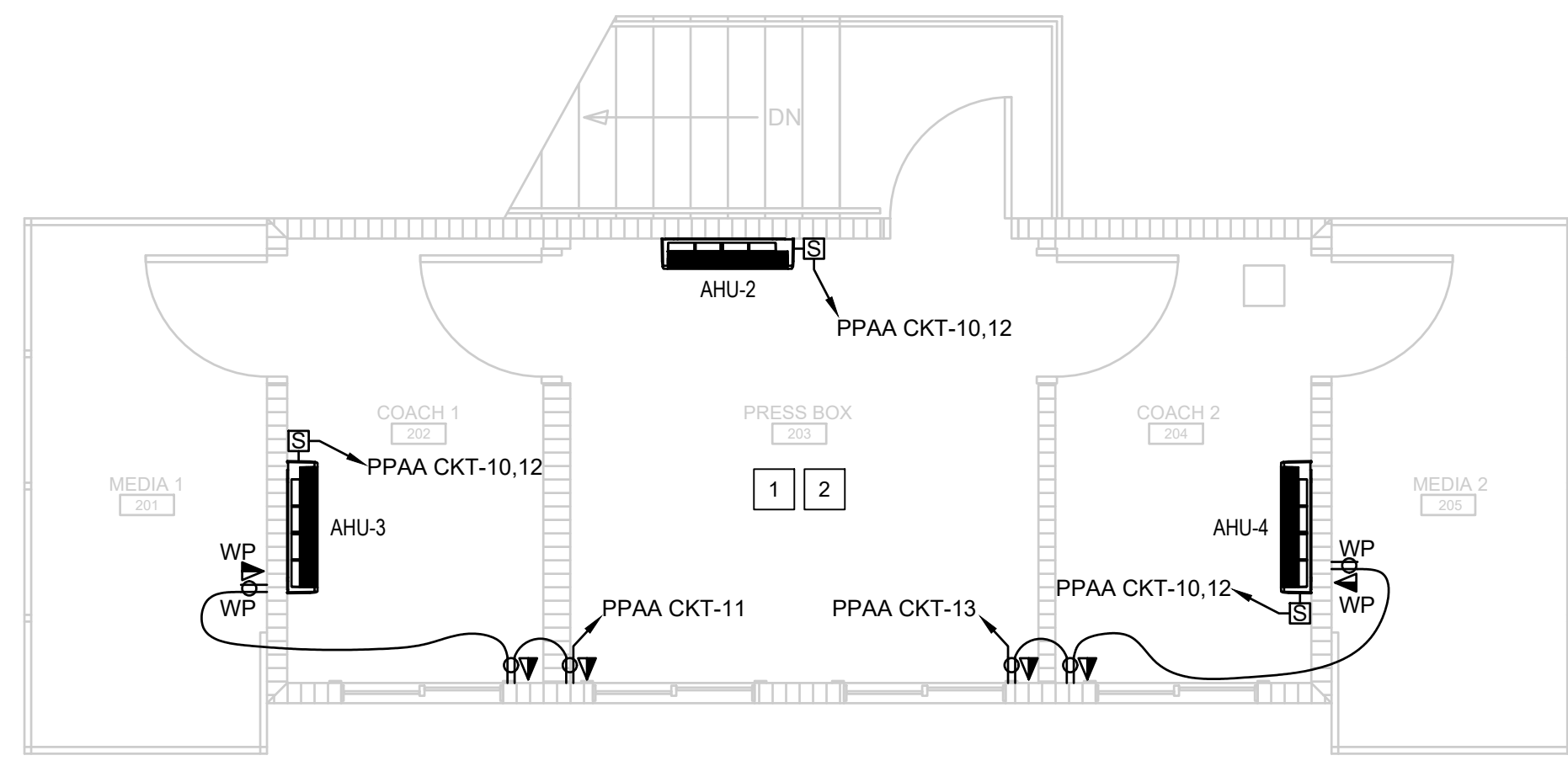
SHEET NUMBER
M-301
PROJECT# 21-11110



NOTES:
 1. ELECTRICAL CONTRACTOR TO TIE NEW GROUNDING INTO EXISTING GROUNDING CIRCUIT.
 2. COORDINATE MOUNTING HEIGHT OF RECEPTACLES ABOVE COUNTERS WITH MILLWORK PROVIDER.

2" PVC STUB UP FOR DATA (EXTEND TO 10' OUTSIDE BUILDING) COORDINATE EXACT LOCATION WITH OWNER AND TO PREVENT INTERFERENCE WITH STAIR SUPPORT LEGS
 2" SPARE PVC

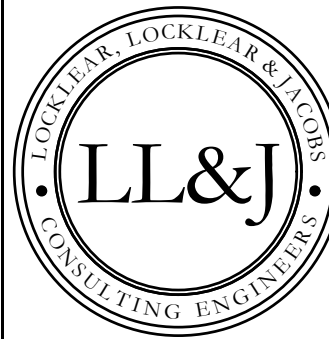
1 FIRST FLOOR ELECTRICAL POWER PLAN
 SCALE: 1/4" = 1'-0"



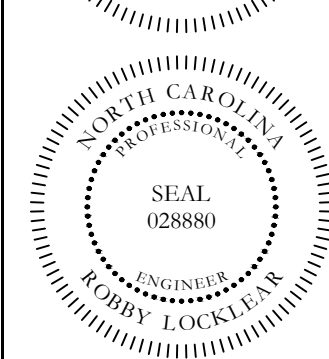
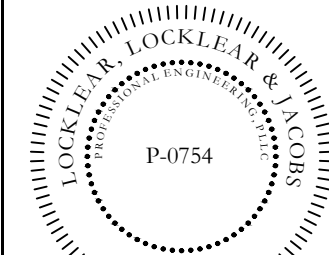
2 SECOND FLOOR ELECTRICAL POWER PLAN
 SCALE: 1/4" = 1'-0"

ELECTRICAL SYMBOL LEGEND	
SYMBOL	DESCRIPTION
	120V DUPLEX RECEPTACLE
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE W/ WEATHERPROOF IN-USE COVER
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE
	DATA (DUAL DATA DROP, BOX AND 3/4" EMT CONDUIT IN WALL TO ABOVE CEILING)
	DATA (DUAL DATA DROP, BOX AND 3/4" EMT CONDUIT IN WALL TO ABOVE CEILING) W/ WEATHERPROOF IN-USE COVER
	DISCONNECT (NEMA 1 INSIDE BUILDING AND NEMA 3R OUTSIDE BUILDING)
	100A, SINGLE PHASE 208V, PANEL 'AA'
	MOTOR RATED SWITCH
	ELECTRIC INSTANTANEOUS WATER HEATER

- KEY NOTES:
- 1 OWNER TO PROVIDE AND INSTALL ALL DATA CABLES.
 - 2 LINE SET(S) TO BE INSTALLED TIGHT AGAINST CEILING/WALL IN LINE SET COVER. LINE SET COVER TO CONTAIN ALL LINE SET(S), POWER, CONTROL, AND CONDENSATE. CONTRACTOR TO ENSURE LINE SET COVERS ARE ADEQUATELY SIZED.
 - 3 3'x4' PAINTED FIRE RATED PLYWOOD COMM BOARD.
 - 4 EXTEND (1) 2" CONDUIT FROM COMM BOARD TO ABOVE SECOND FLOOR CEILING (ROUTE CONDUIT INSIDE BLOCK WALL UP THRU SECOND FLOOR FRAMED WALL).



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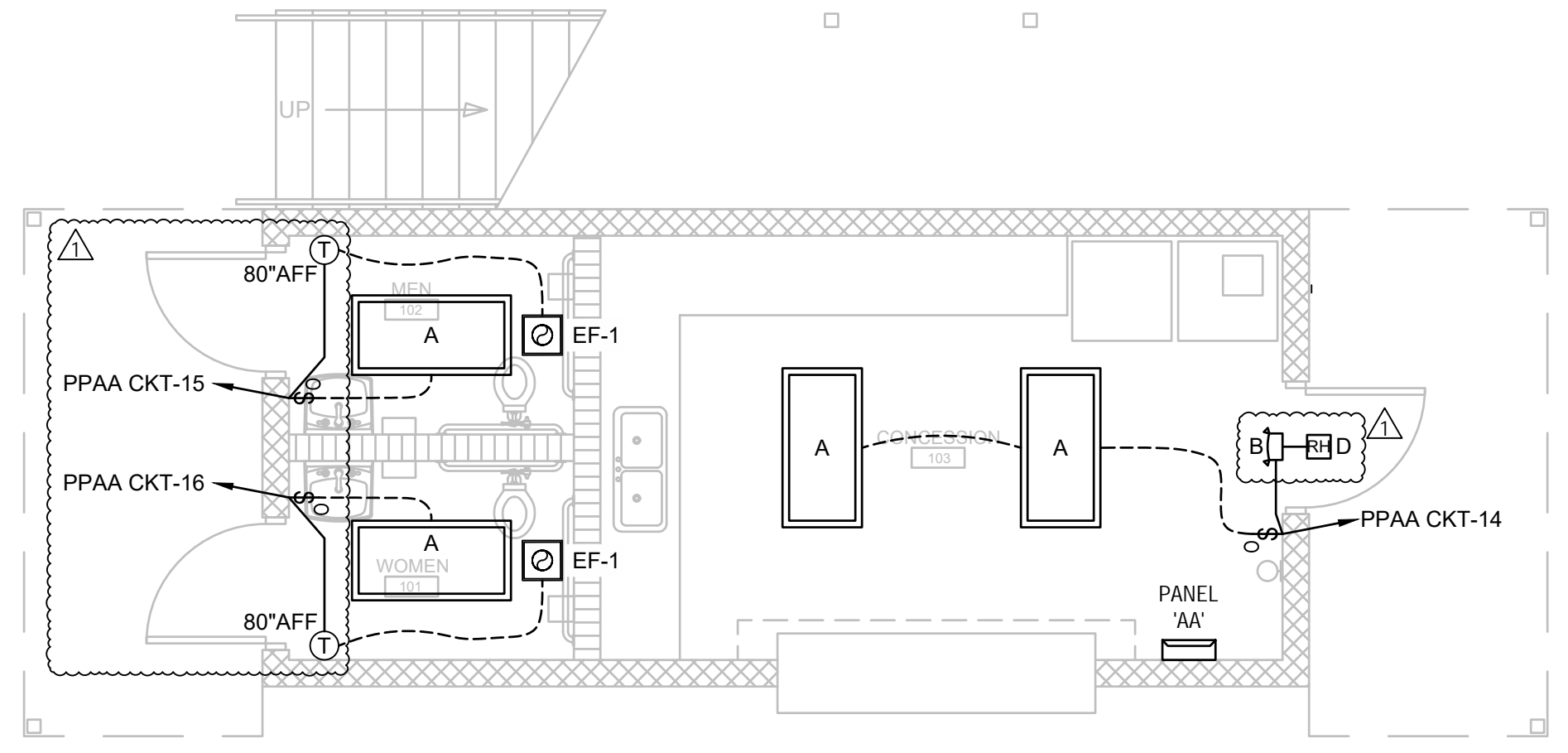
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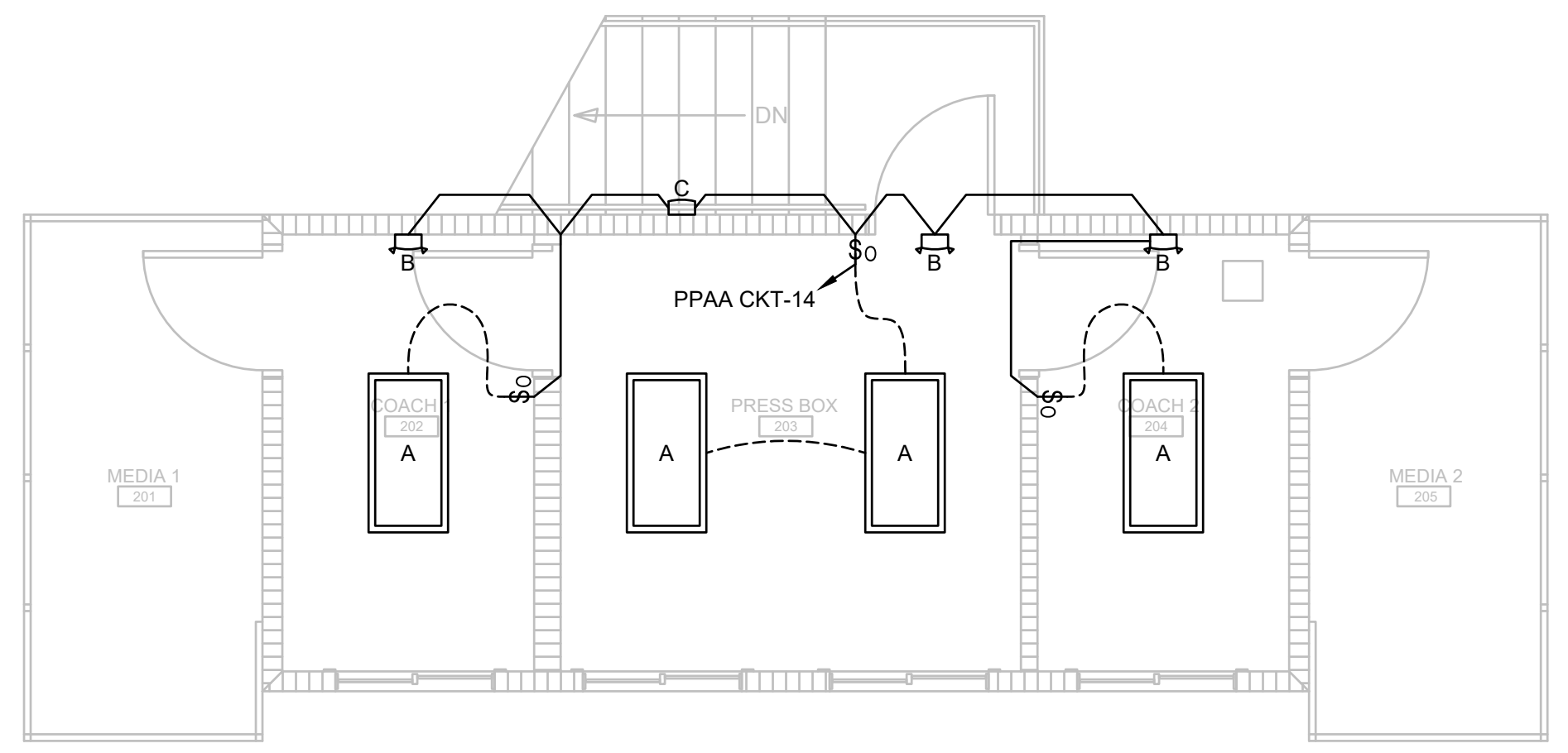
SHEET TITLE:
ELECTRICAL POWER PLAN

SHEET NUMBER:
E-101
 PROJECT# 21-11110

Printed: Thu 13-Apr-2023 - 01:18PM



1 FIRST FLOOR ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"



2 SECOND FLOOR ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"

LIGHT FIXTURE SCHEDULE							
TAG	DESCRIPTION	MOUNTING	VOLTS / WATTS	LUMENS	LAMP TYPE	MANUFACTURER	MODEL #
A	2'X4' LED LIGHT FIXTURE	SURFACE	120V / 42W	4550	LED	COOPER	24FP4740C
B	EMERGENCY LIGHT	WALL	120V / 1W	N/A	LED	COOPER	CU2-LED
C	OUTDOOR EMERGENCY LIGHT	WALL	120V / 2W	300	LED	COOPER	SELDWA50
D	REMOTE HEAD	WALL	1W	N/A	LED	COOPER	APWR1

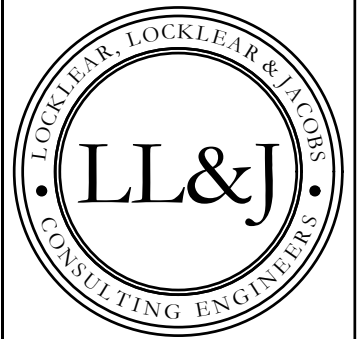
- NOTES:
1. LIGHT FIXTURES TO BE MANUFACTURED BY COOPER, LITHONIA OR METALUX.
 2. ALL LIGHTING FIXTURES SHALL BE U.L. LISTED.
 3. VERIFY ALL MOUNTING HEIGHTS WITH PRIOR TO ROUGH-IN.
 4. COORDINATE ALL COLORS/FINISH OPTIONS OF LIGHT FIXTURES WITH THE OWNER/ENGINEER PRIOR TO PURCHASING.
 5. ALL LIGHTING FIXTURES INDICATED WITHIN THE LIGHTING FIXTURE SCHEDULE SHALL BE PROVIDED WITH ALL REQUIRED MOUNTING HARDWARE, CONNECTORS AND ANY OTHER NEEDED FIXTURE OPTIONS FOR A COMPLETE AND OPERATIONAL INSTALLATION AS INTENDED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.
 6. THE E.C. SHALL COORDINATE CLOSELY WITH THE ENGINEER AND/OR GENERAL CONTRACTOR FOR THE DESIRED MOUNTING METHODS OF THE LED LIGHT FIXTURES IN ALL LOCATIONS OF THE BUILDING AS SHOWN ON THE PLANS. THE E.C. SHALL COORDINATE AND VERIFY THE EXACT LOCATIONS FOR THE POWER SUPPLY (LOW-VOLTAGE TRANSFORMERS) WITH THE ENGINEER AND/OR GENERAL CONTRACTOR PRIOR TO ROUGH-IN. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE AS REQUIRED TO MOUNT THESE FIXTURES AS DIRECTED BY THE ENGINEER.
 7. ALL LIGHT SWITCH COVER PLATES TO BE STAINLESS STEEL.

ELECTRICAL SYMBOL LEGEND	
Ⓢ	WALL MOUNTED OCCUPANCY SENSOR
Ⓣ	WALL MOUNTED THERMOSTAT
Ⓜ	100A, SINGLE PHASE 208V, PANEL 'AA'
Ⓛ	OUTDOOR EMERGENCY LIGHT
Ⓛ	EMERGENCY LIGHT
Ⓛ	2'X4' LED LIGHT FIXTURE
Ⓛ	EXHAUST FAN

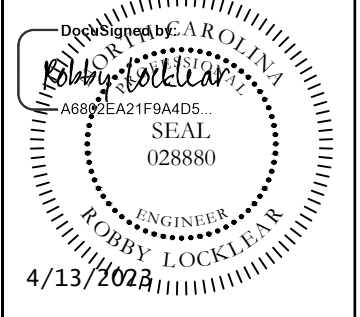
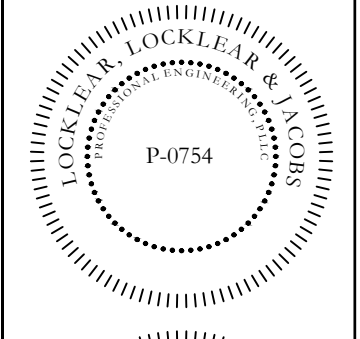
TYPICAL DEVICE MOUNTING HEIGHT	
RECEPTACLES	18" AFF
LIGHT SWITCHES	48" AFF
EXIT SIGNS	NOTE 3
EMERGENCY LIGHTS	7'-6" AFF
DATA OUTLETS	18" AFF

NOTES:

1. DIMENSIONS ARE TO DEVICE CENTERLINE UNLESS OTHERWISE NOTED.
2. REFER TO POWER SYMBOLS FOR ADDITIONAL DEVICE MOUNTING REQUIREMENTS.
3. WHERE SHOWN WALL MOUNTED, EXIT SIGNS SHALL BE MOUNTED 8'-0" AFF OR 1' ABOVE DOOR TO CENTER LINE OF FIXTURE UNLESS OTHERWISE NOTED.



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PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
1	4/12/2023	EXT FAN CHANGED, CONCESSIONS DIER, LOT RELOCATED AND REMOTE ID ADDED.
2		
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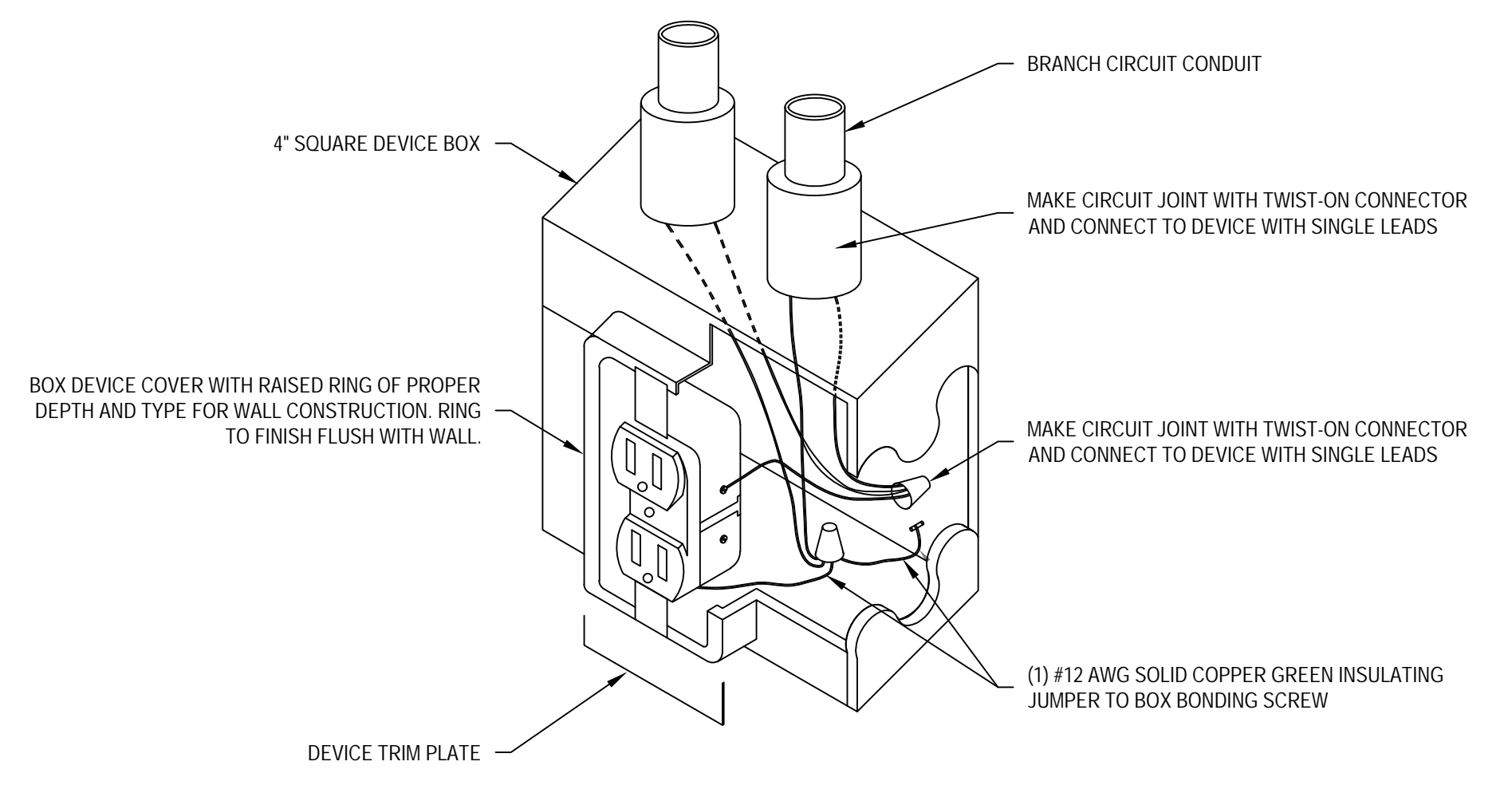
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SHEET TITLE:
ELECTRICAL LIGHTING PLAN

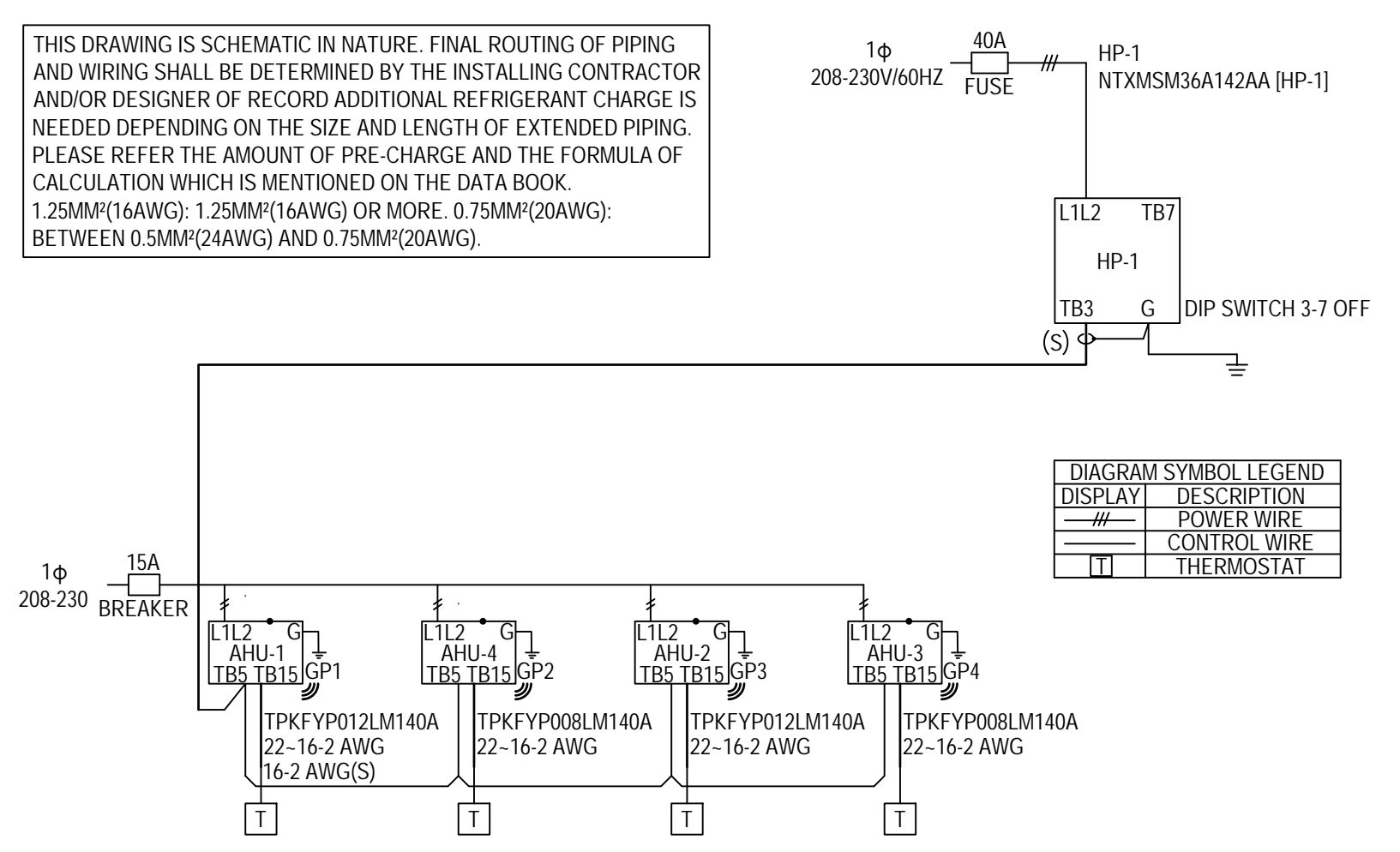
SHEET NUMBER:
E-201

PROJECT# 21-1110

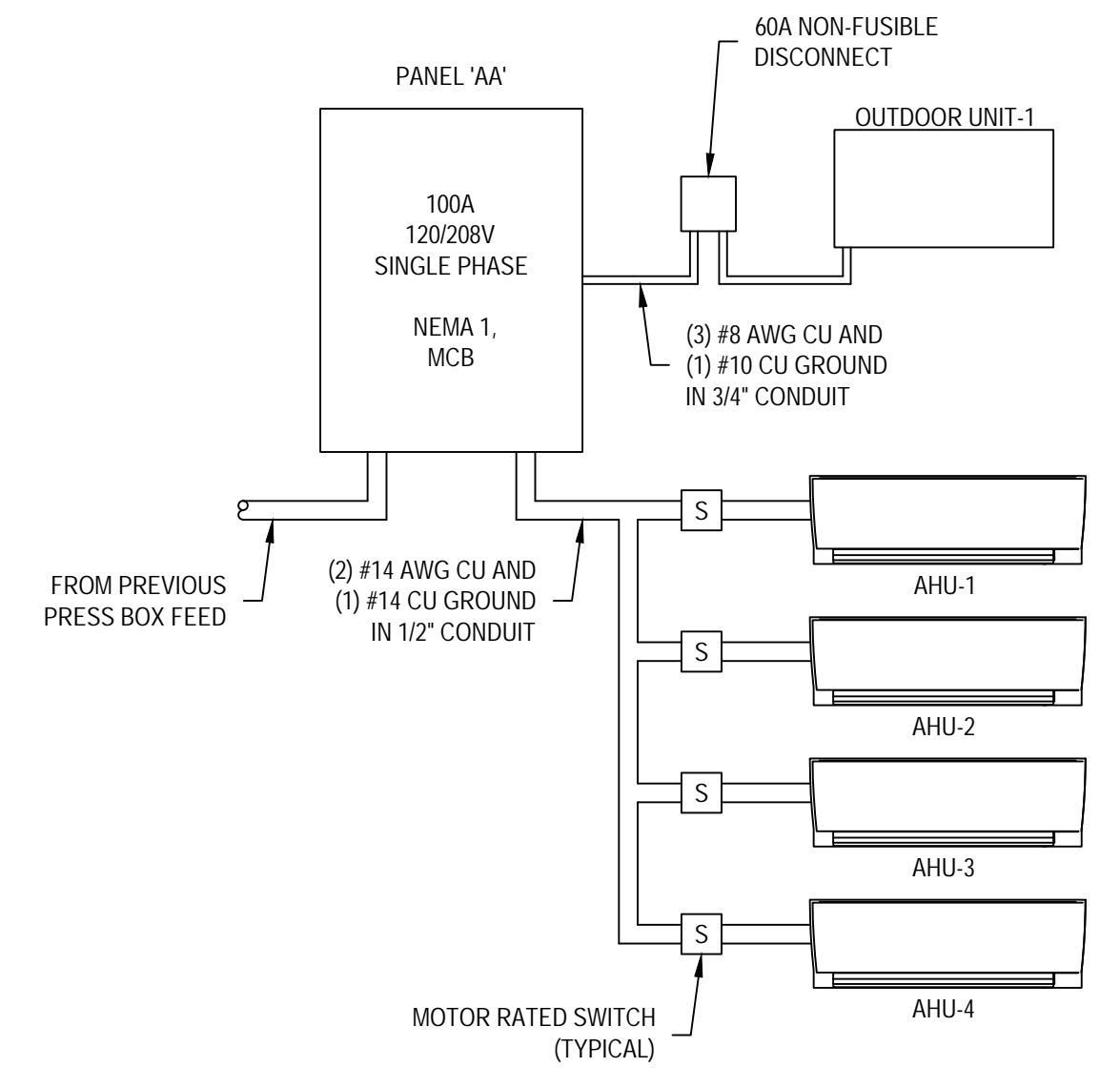
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1 RECEPTACLE GROUNDING DETAIL
NTS



2 TYPICAL DUCTLESS SYSTEM SCHEMATIC DETAIL
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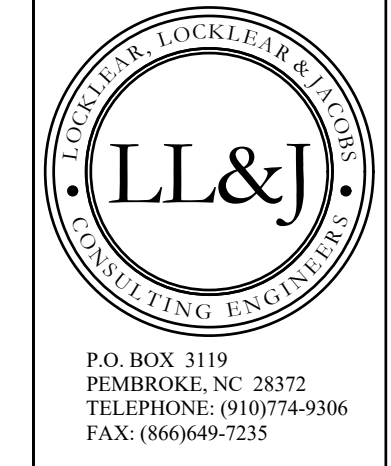


3 ELECTRICAL RISER DIAGRAM
NTS

MN WIRE SIZE	PANEL 'AA'										GROUND BAR NEUTRAL		MN WIRE SIZE
	DESCRIPTION	Watts	Bkr.	#	Leg 'A'	Leg 'B'	#	Bkr.	Watts	DESCRIPTION			
8	HEAT PUMP-1	3640	40	1	4140	2	20	500	REFRIGERATOR	12			
12	FIRST FLOOR RECP.	360	20	5	720	6	20	360	FIRST FLOOR RECP.	12			
8	WATER HEATER	4160	40	7	4520	8	20	360	COMM BOARD	12			
12	SECOND FLOOR RECP.	540	20	11	540.5	12	15	0.5	AIR HANDLER UNITS	12			
12	SECOND FLOOR RECP.	540	20	13	915	14	20	375	LIGHTS	12			
12	MENS RR	1500	20	15	3000	16	20	1500	WOMEN RR	12			
				17	0	18							
				19	0	20							
				21	0	22							
				23	0	24							
TOTAL Watts Leg 'A'					9935.5	TOTAL Watts Leg 'B'					12200.5	Total Watts 22136	

BUILDING TOTAL LOADS			
TOTAL Watts Leg 'A'	9935.5	SERVICE ENTRANCE	100 AMPS
TOTAL Watts Leg 'B'	12201	CONDUCTOR SIZE	3 AWG
TOTAL WATTS	22136	GROUND SIZE	6 AWG
TOTAL AMPS	92.23	CONDUIT SIZE	1 1/2 INCH

4 PANEL 'AA' SCHEDULE
NTS



P.O. BOX 3119
PEMBROKE, NC 28372
TELEPHONE: (910)774-9306
FAX: (866)649-7235

P-0754

REGISTERED PROFESSIONAL ENGINEER
STATE OF NORTH CAROLINA
NO. 21110
4/13/2023

PROJECT INFORMATION:

HARNETT CENTRAL PRESS BOX
HARNETT COUNTY SCHOOLS
2911 HARNETT CENTRAL RD
ANGIER, NC 27501

REV#	DATE	DESCRIPTION
1	4/12/2023	PANEL SCHEDULE UPDATED
2		
3		
4		
5		

DATE: 1/10/2023

DRAWN BY: CKD

CHECKED BY: RL

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E-301

PROJECT# 21-11110

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