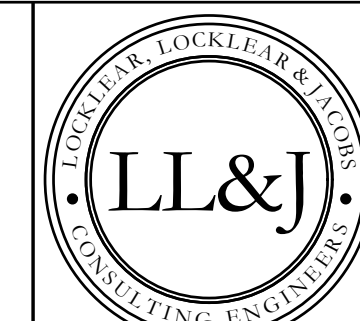
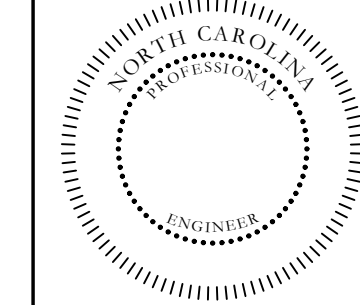
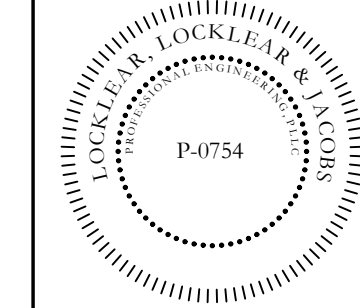


HARNETT CENTRAL PRESS BOX

2911 HARNETT CENTRAL RD, ANGIER, NC 27501

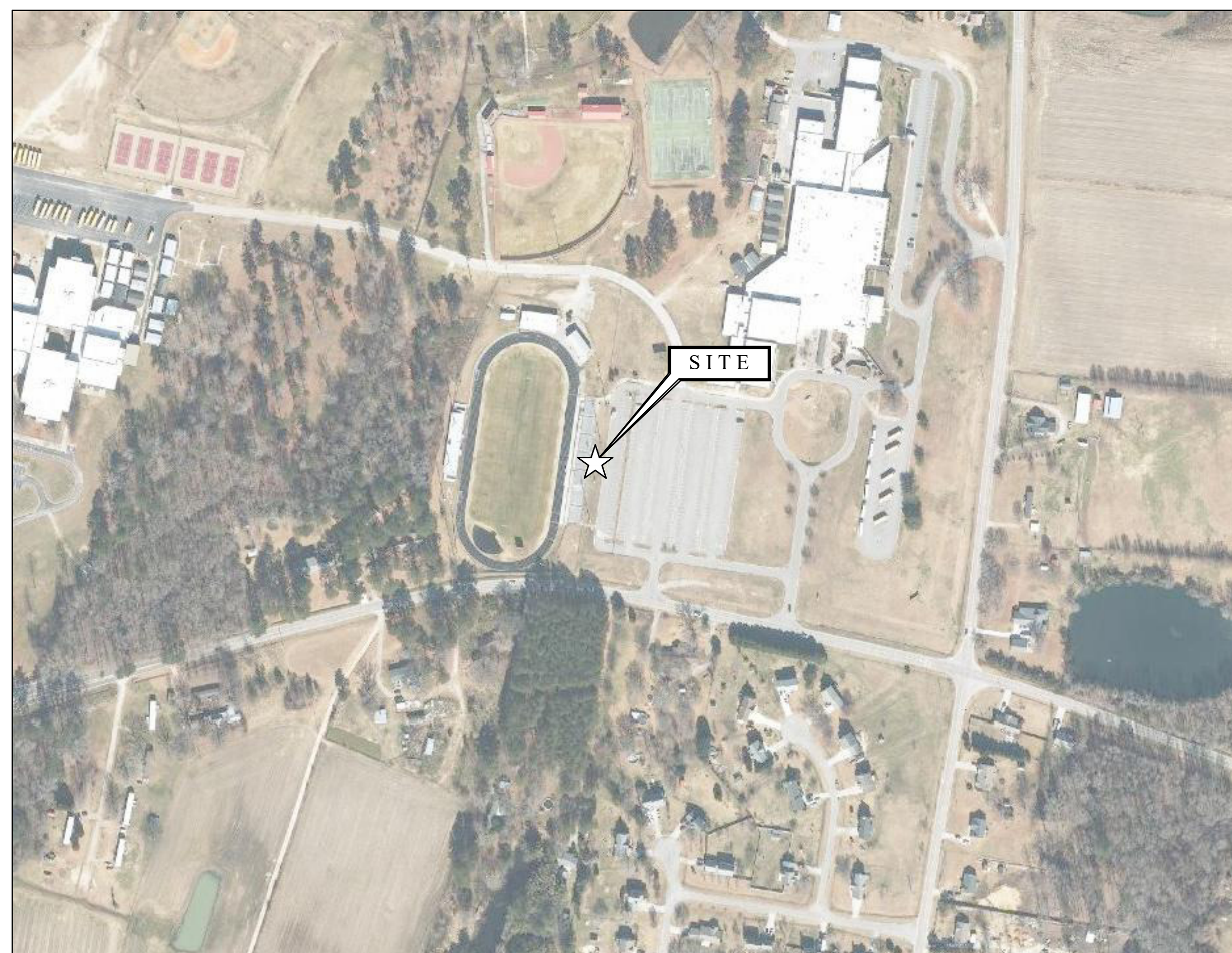
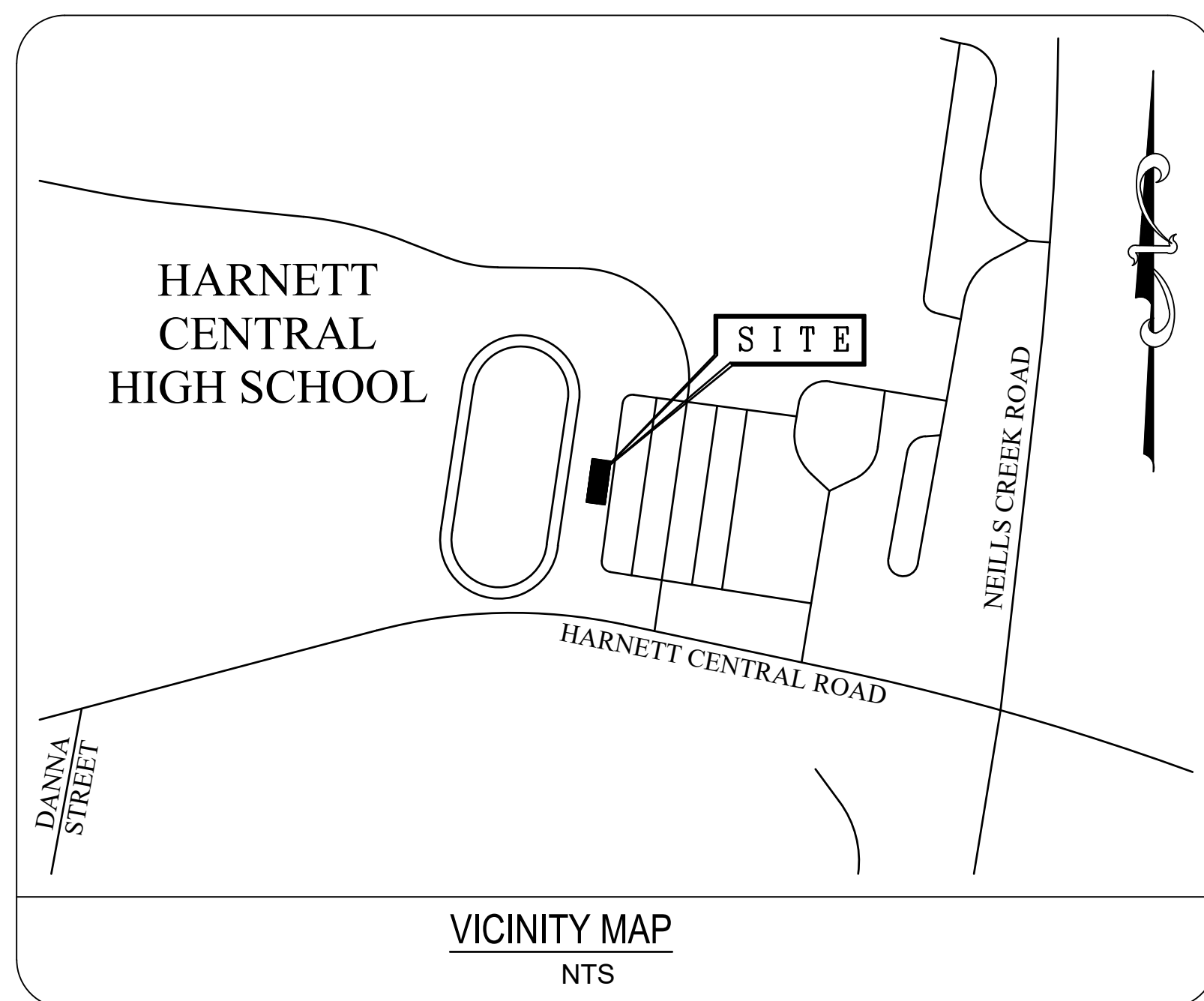


P.O. BOX 3119
PEMBROKE, NC 28372
TELEPHONE: (910) 774-9306
FAX: (866) 649-7235



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

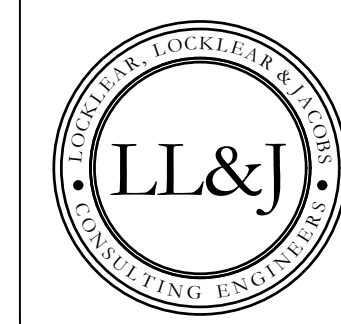
D:\Dropbox (LL&J)\21-1110 Harnett County Schools Press Box\1-Drawings\Harnett Central High Press Box\Arch\21-1110 Harnett Central Press Box.dwg, C-001 COVER SHEET, rgsr



DRAWING INDEX			
SHEET NUMBER	SHEET TITLE	REVISION NUMBER	REVISION DATE
G-001	COVER SHEET	-	-
G-002	APPENDIX B	-	-
G-003	GENERAL NOTES AND ABBREVIATIONS	-	-
G-101	FLOOR PLANS	-	-
G-111	OVERALL ROOF PLAN	-	-
G-201	EXTERIOR ELEVATIONS	-	-
G-301	BUILDING SECTIONS AND DETAILS	-	-
G-401	ENLARGED FLOOR PLANS AND INTERIOR ELEVATIONS	-	-
G-501	CASEWORK DETAILS	-	-
G-502	GENERAL DETAILS	-	-
G-503	GENERAL DETAILS	-	-
G-601	ROOM FINISH SCHEDULE	-	-
S-001	STRUCTURAL NOTES AND ABBREVIATIONS	-	-
S-101	FOUNDATION PLAN	-	-
S-102	FOUNDATION DETAILS	-	-
S-103	FOUNDATION DETAILS	-	-
S-104	FRAMING PLAN	-	-
P-001	PLUMBING NOTES AND SCHEDULES	-	-
P-101	PLUMBING PLAN	-	-
P-301	PLUMBING DETAILS	-	-
M-001	MECHANICAL NOTES LEGEND AND ABBREVS	-	-
M-101	MECHANICAL PLAN	-	-
M-102	MECHANICAL CONDENSATE PLAN	-	-
M-301	MECHANICAL DETAILS	-	-
E-001	ELECTRICAL NOTES LEGENDS AND ABBREVS	-	-
E-101	ELECTRICAL POWER PLAN	-	-
E-201	ELECTRICAL LIGHTING PLAN	-	-
E-301	ELECTRICAL DETAILS	-	-

CLIENT

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



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: 12/2/2022
DRAWN BY: RDH
CHECKED BY: JEL
SHEET TITLE:
COVER SHEET
SHEET NUMBER:
G-001
PROJECT# 21-11110

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2018 APPENDIX B - BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: HARNETT CENTRAL PRESS BOX
Address: 2911 HARNETT CENTRAL RD ANGLIER, NC Zip Code: 27501
Proposed Use: PRESS BOX
Owner/Authorized Agent: STEVE MATHEWS Phone # (910) 893-8151 E-Mail: smathews@harnett.k12.nc.us

Table with columns: DESIGNER, FIRM, NAME, LICENSE #, TELEPHONE #, E-Mail. Lists Robby Locklear, P.E. and Jonathan Locklear, P.E. from LOCKLEAR, LOCKLEAR & JACOBS, PLLC.

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, I-B, II-B, III-B, V-B
Sprinklers: No, Partial, Yes
Standpipes: No, Yes
Fire District: No, Yes
Building Height: 19'-4"
Gross Building Area:
FLOOR EXISTING (SQFT) NEW (SQFT) SUB-TOTAL (SQFT)

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):

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 entire 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.

Separated Use Calculations

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

Table with columns: STORY NO., DESCRIPTION AND USE, AREA PER STORY (ACTUAL), TABLE 503.3 AREA, AREA FOR OPEN SPACE INCREASE 1, AREA FOR SPRINKLER INCREASE 2, ALLOWABLE AREA OR UNLIMITED 3, MAXIMUM BUILDING AREA 4.

- 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 I1 = 100(F/P-0.25)XW/30 = (%)
2. The sprinkler increase per Section 506.2 is as follows:
a. Multi-story building I1 = 200%
b. Single story building I1 = 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

Table with columns: CONSTRUCTION TYPE, ALLOWABLE (TABLE 504.3), WITH SPRINKLERS, SHOWN ON PLANS, CODE REFERENCE.

FIRE PROTECTION REQUIREMENTS

Table with columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATING, DETAIL # AND SHEET #, DESIGN # FOR RATED ASSEMBLY, DESIGN # FOR RATED PEN., DESIGN # FOR RATED JOINTS.

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 VERIFYING 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)

Table with columns: 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)

Table with columns: LOT OR PARKING AREA, TOTAL # OF PARKING SPACES REQUIRED, PROVIDED, # OF ACCESSIBLE SPACES PROVIDED, REGULAR WITH 5' ACCESS AISLE, VAN SPACES, TOTAL # ACCESSIBLE PROVIDED.

STRUCTURAL DESIGN

DESIGN LOADS:
Importance Factors: Live Loads:
Wind (Iw): 1.0 Roof: 20 psf
Snow (Is): 1.0 Mezzanine: 100 psf
Seismic (Ie): 1.0 Floor: 100 psf
Wind Load: Basic Wind Speed 120 mph (ASCE-7)
Exposure Category B
Wind Base Shears (for MWFRS) Vx = 3,500 lbs Vy = 7,700 lbs
SEISMIC DESIGN CATEGORY A, B, C, D
Provide the following Seismic Design Parameters:
Occupancy Category (Table 1604.5) I, II, III, IV
Spectral Response Acceleration Ss 13.0 %g S1 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: Vx = 1,800 lbs Vy = 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) psf
Presumptive Bearing Capacity 2000 psf
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

Table with columns: USE, WATERCLOSETS, URINALS, LAVATORIES, SHOWERS / TUBS, DRINKING FOUNTAINS.

SPECIAL APPROVALS (LOCAL JURISDICTION, DEPARTMENT OF INSURANCE, OSC, DPI, DHHS, ICC ETC, DESCRIBE BELOW)

ENERGY SUMMARY

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 Method Of Compliance
3, 4, 5 Prescriptive (Energy Code), Prescriptive (ASHRAE 90.1), Performance (Energy Code), Performance (ASHRAE 90.1)

THERMAL ENVELOPE

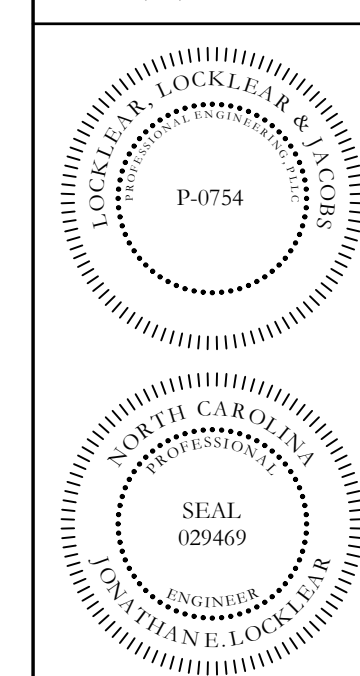
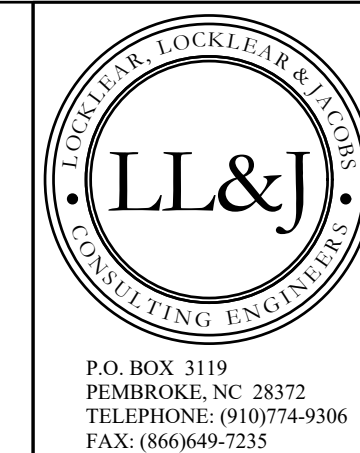
Roof/ceiling Assembly (each assembly): FILLED CAVITY FIBERGLASS INSULATION
Description of assembly:
U-Value of total assembly: 0.041
R-Value of insulation: R-10 AND R-19 FC WITH R-5 THERMAL BLOCKS
Skylights in each assembly:
U-Value of skylight:
total square footage of skylights in each assembly:
Exterior Walls (each assembly): METAL WALL PANEL FIBERGLASS BLANKET
Description of assembly:
U-Value of total assembly:
R-Value of insulation: R-21
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:
U-Value of total assembly:
R-Value of insulation:
Floors over unconditioned space (each assembly):
Description of assembly:
U-Value of total assembly:
R-Value of insulation:
Floors slab on grade:
Description of assembly:
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: 21
summer dry bulb: 92
Interior design conditions
winter dry bulb: 70
summer dry bulb: 72
relative humidity: 55
Building heating load: 285,000 BTU/HR
Building cooling load: 28 TON
Mechanical Spacing Conditioning System
Unitary
description of unit: HEATPUMP
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:

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
Method Of Compliance
Energy Code: Prescriptive, Performance
ASHRAE 90.1: Prescriptive, Performance
Lighting schedule: (each fixture type)
Lamp type required in fixture: LED
Number of lamps in fixture: LED
Ballast type used in the fixture: N/A
Number of ballasts in fixture: N/A
Total wattage per fixture: SEE LIGHTING SCHEDULE
Total interior wattage specified vs allowed: 2,366 VS 10,000 (WHOLE BUILDING)
(whole building or space by space) FIRE STATION: 1W PER SQFT
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



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

PROJECT INFORMATION:
REVISIONS:
DATE: 12/2/2022
DRAWN BY: CKD
CHECKED BY: RL
SHEET TITLE:
APPENDIX B
SHEET NUMBER:
G-002
PROJECT# 21-1110

GENERAL NOTES

GENERAL NOTES:

- ALL WORK TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS.
- NEW CONSTRUCTION, ACCESSORIES AND EQUIPMENT INSTALLATION SHALL BE PROVIDED IN COMPLIANCE WITH ADA ACCESSIBILITY REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL FROM THE SITE AND PROPER DISPOSAL OF ANY DEBRIS ACCUMULATED DURING CONSTRUCTION ON A DAILY BASIS.
- 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.
- 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.
- 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.
- STORED MATERIALS SHALL BE KEPT DRY AND IN AN ORDERLY FASHION IN AN AREA DESIGNATED BY THE GENERAL CONTRACTOR.
- TYPICAL DIMENSIONS ARE TO THE STRUCTURAL FACE OF PARTITION UNLESS OTHERWISE NOTED.
- CONTRACTOR IS TO PROVIDE METAL/TREATED WOOD BLOCKING AT LOCATIONS RECEIVING CABINETRY OR EQUIPMENT.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL NEW EQUIPMENT, DEVICES, LIGHTING, AND FOR ADDITIONAL NOTES.
- 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:

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL TURN OVER TO THE OWNER, DESIGNATED PLACE OF STORAGE, A QUANTITY OF SURPLUS MATERIALS, AS APPLICABLE, FOR THE WORK.
- 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:

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

SYMBOL LEGEND

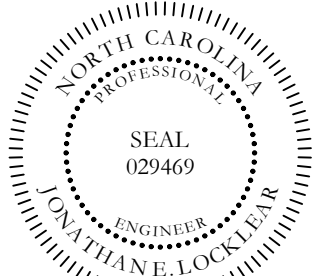
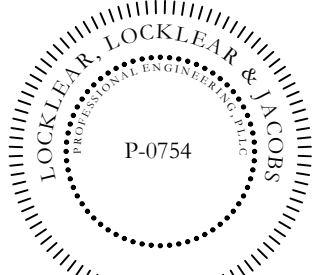
SYMBOL	DESCRIPTION
	DETAIL INDICATOR
	SECTION SYMBOL
	ELEVATION SYMBOL
	STRUCTURAL GRID
	ELEVATION TAG
	AREA OF REVISION AND REVISION NUMBER
	KEY NOTE

TAG LEGEND

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



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

PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
1		
2		
3		
4		
5		

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DATE: 12/2/2022

DRAWN BY:

CHECKED BY: RL

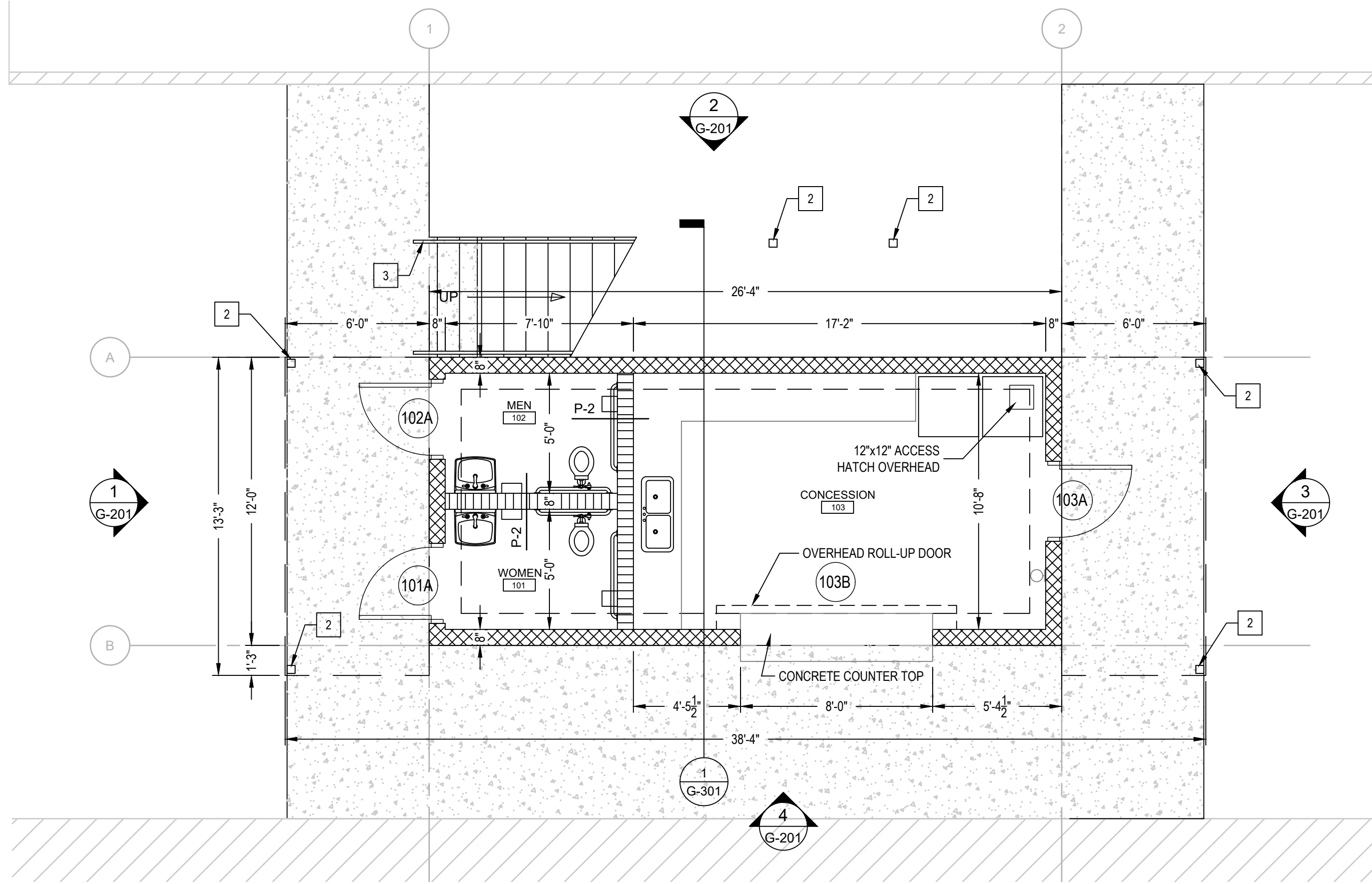
SHEET TITLE

GENERAL NOTES AND ABBREVIATIONS

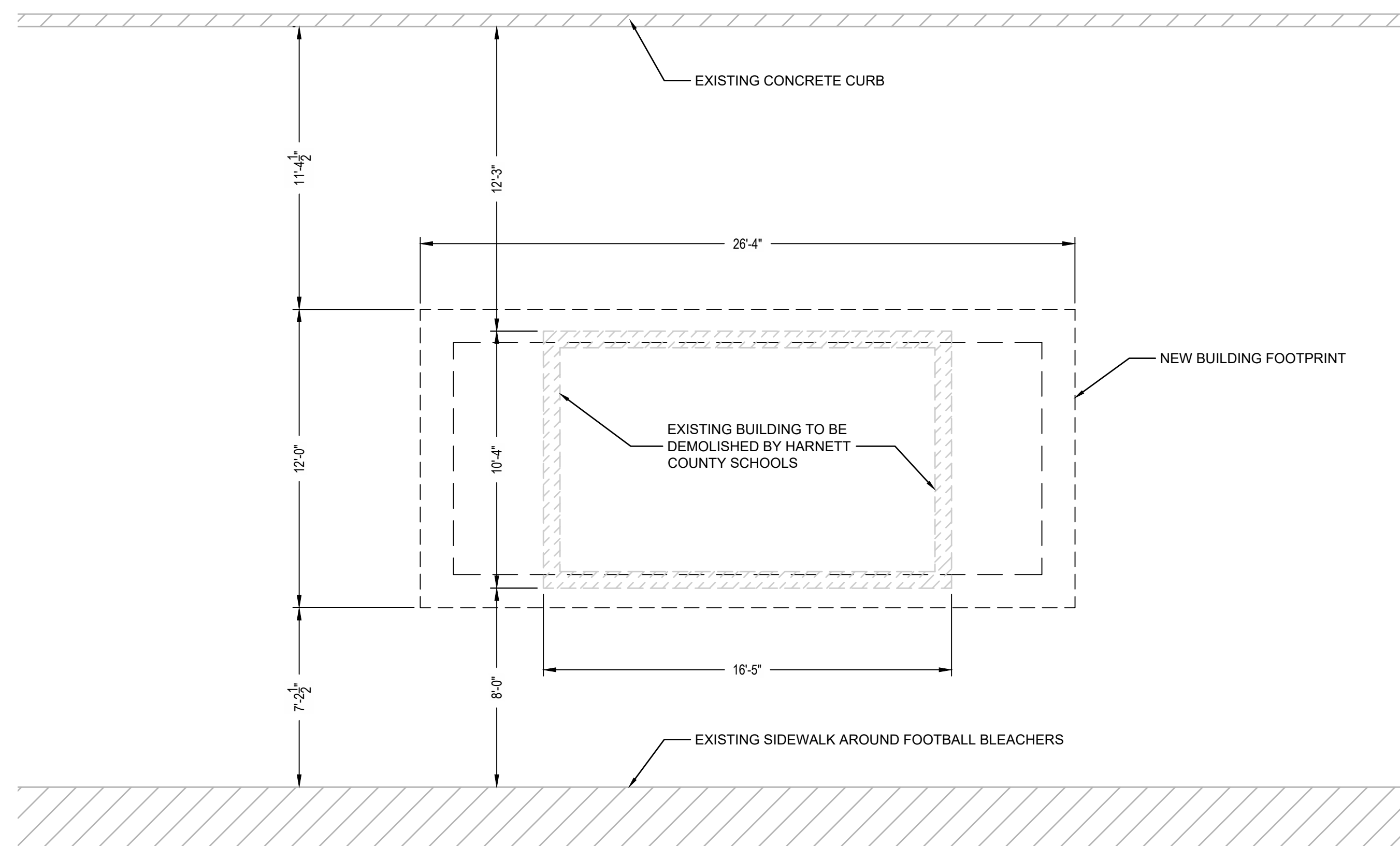
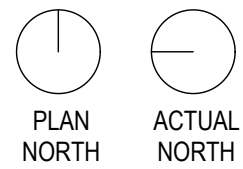
SHEET NUMBER

G-003

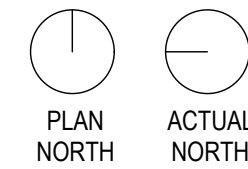
PROJECT# 21-1110



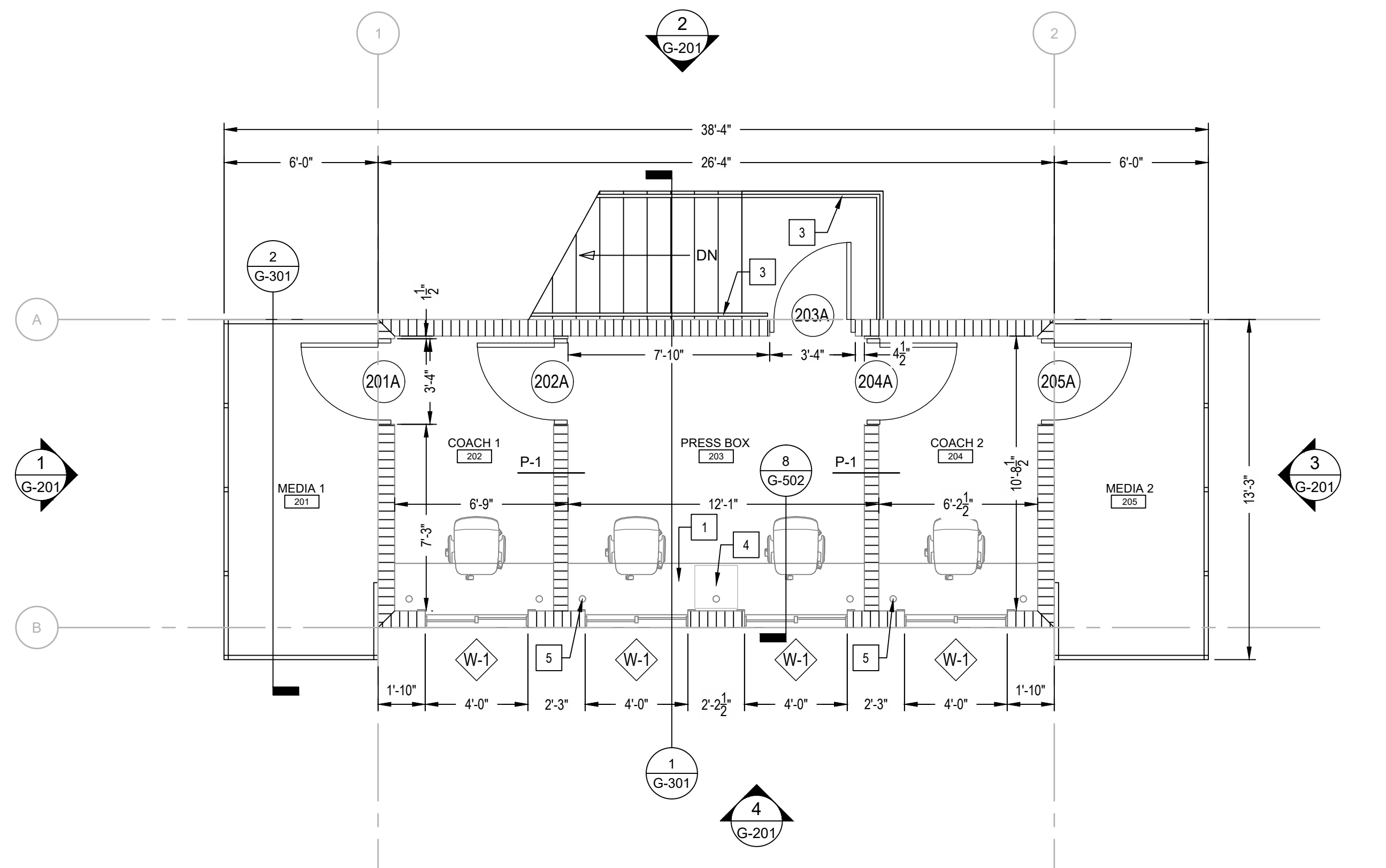
1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



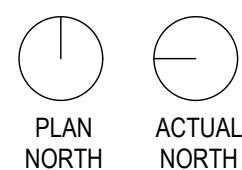
2 EXISTING SITE CONDITIONS
SCALE: 1/4" = 1'-0"



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.



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

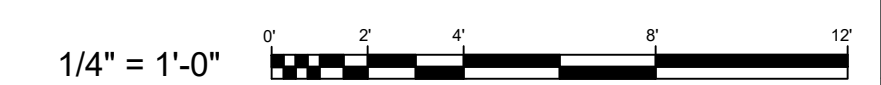
- PA SYSTEM IN PRESS BOX 203 FLOOR MOUNTED UNDER COUNTERTOP.

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

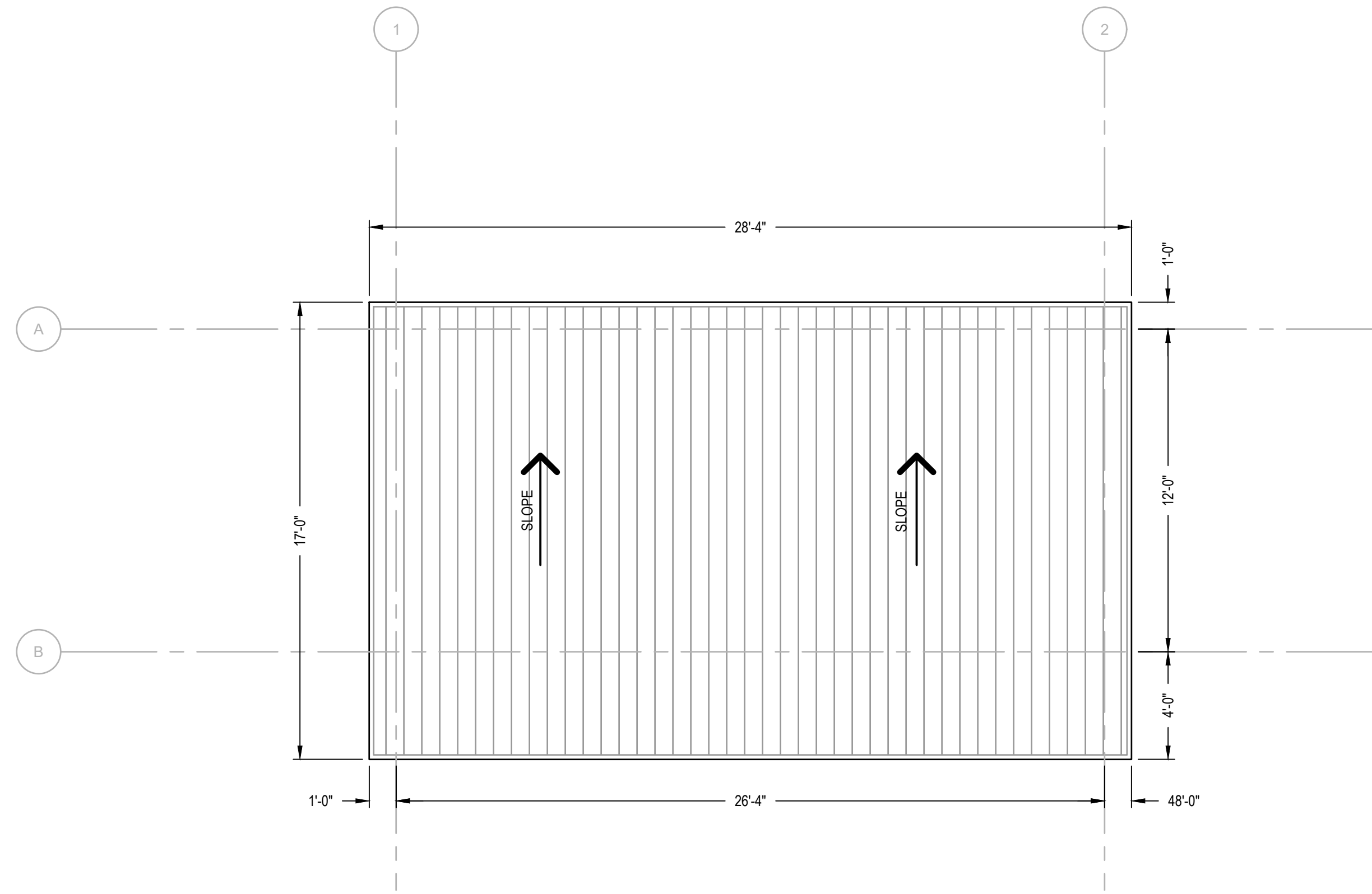


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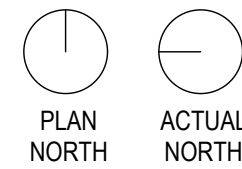
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 ANGLIER, NC 27501

REV#	DATE	DESCRIPTION

DATE: 12/2/2022
 DRAWN BY: RDH
 CHECKED BY: JEL
 SHEET TITLE: FLOOR PLANS
 SHEET NUMBER: G-101
 PROJECT#: 21-1110



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

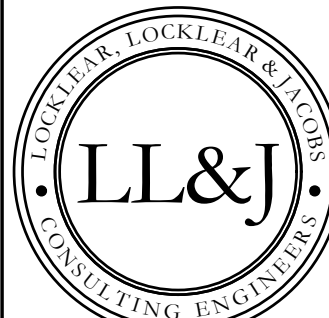


GENERAL NOTES

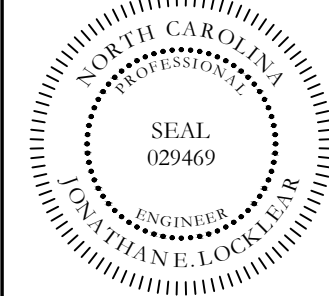
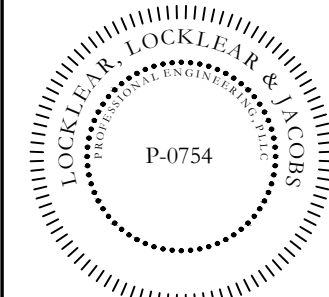
- CONSTRUCTION NOTES:**
- REFER TO SHEET G-101 FOR GENERAL NOTES.
 - CONTRACTOR SHALL VERIFY LOCATIONS OF ALL REQUIRED BLOCKING WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.
 - TRUSS TO LOAD BEARING WALL CONNECTION SHALL BE REVIEWED AND APPROVED BY ENGINEER.
- ROOF FRAMING NOTES:**
- ALL CONNECTIONS 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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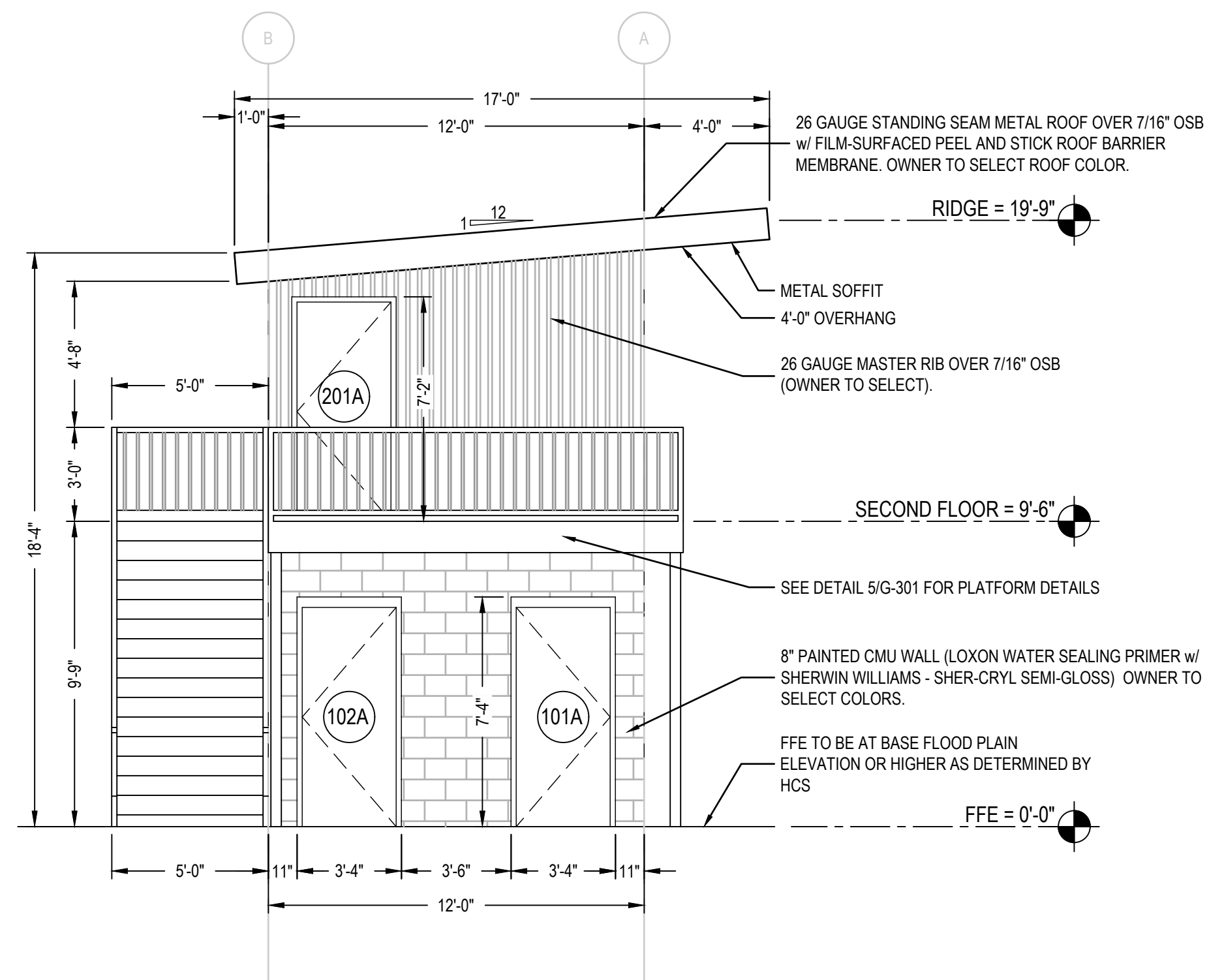
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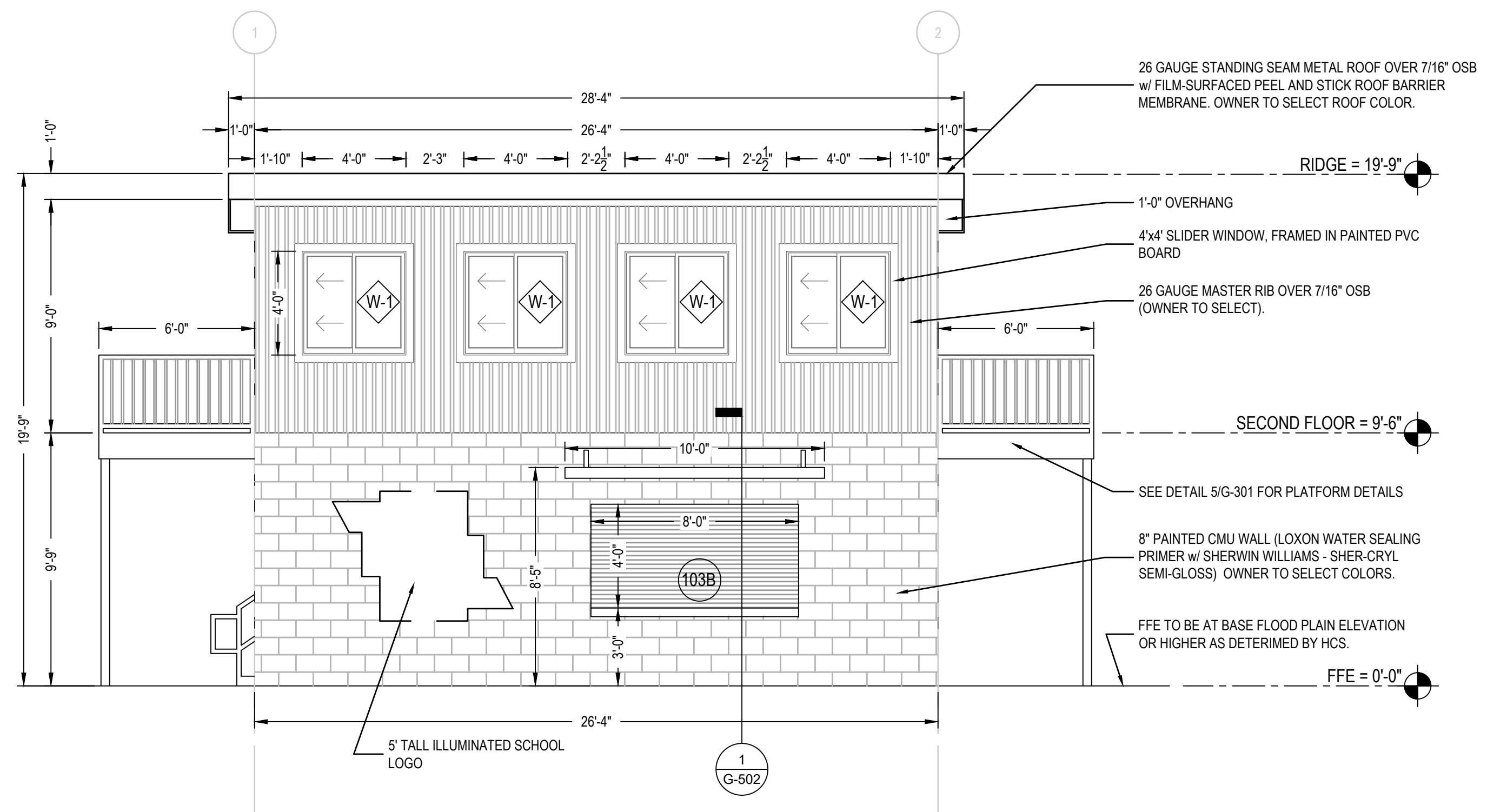
DATE: 12/2/2022
DRAWN BY: RDH
CHECKED BY: RL
SHEET TITLE:

OVERALL ROOF PLAN

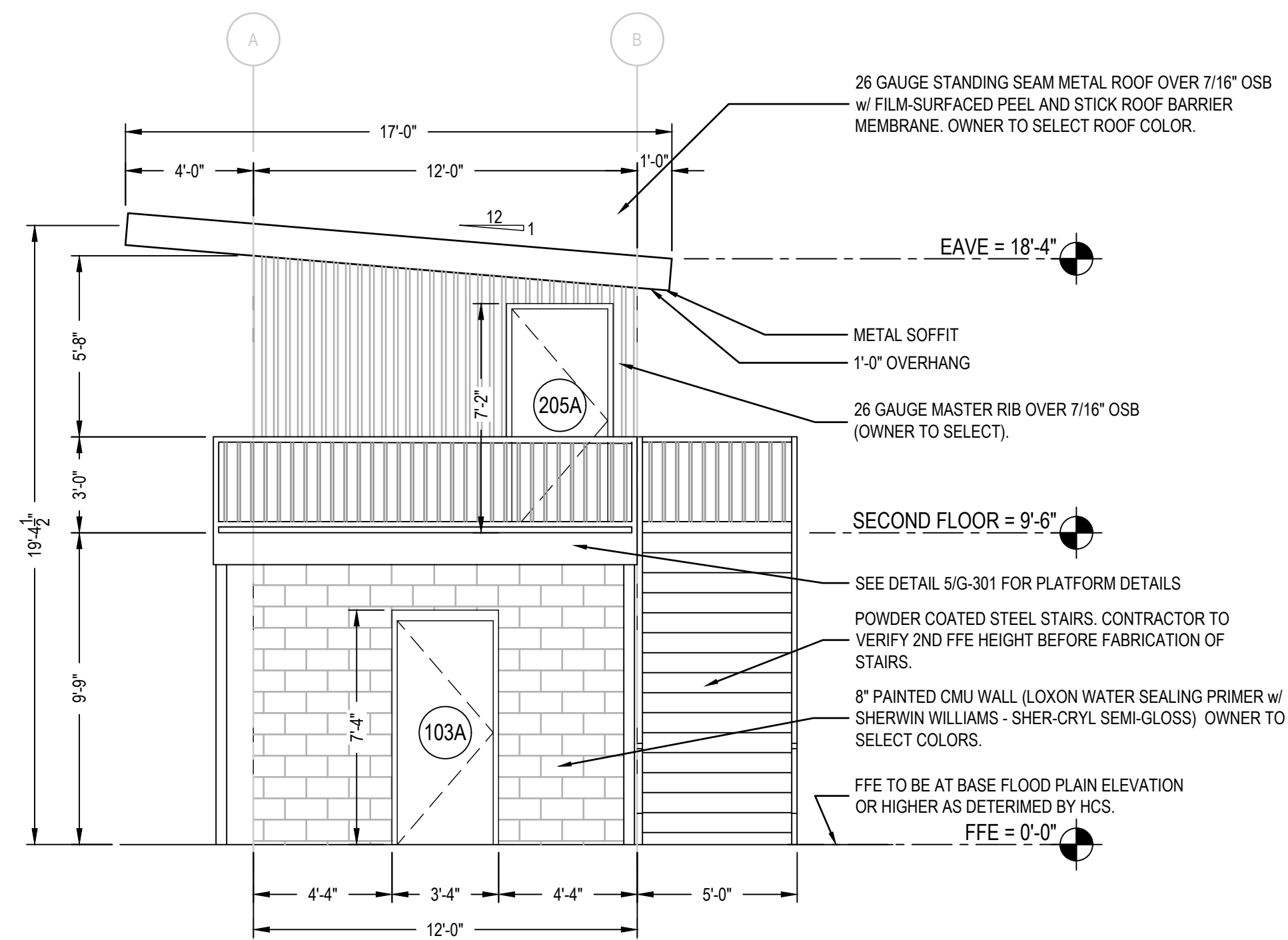
SHEET NUMBER
G-111
PROJECT# 21-11110



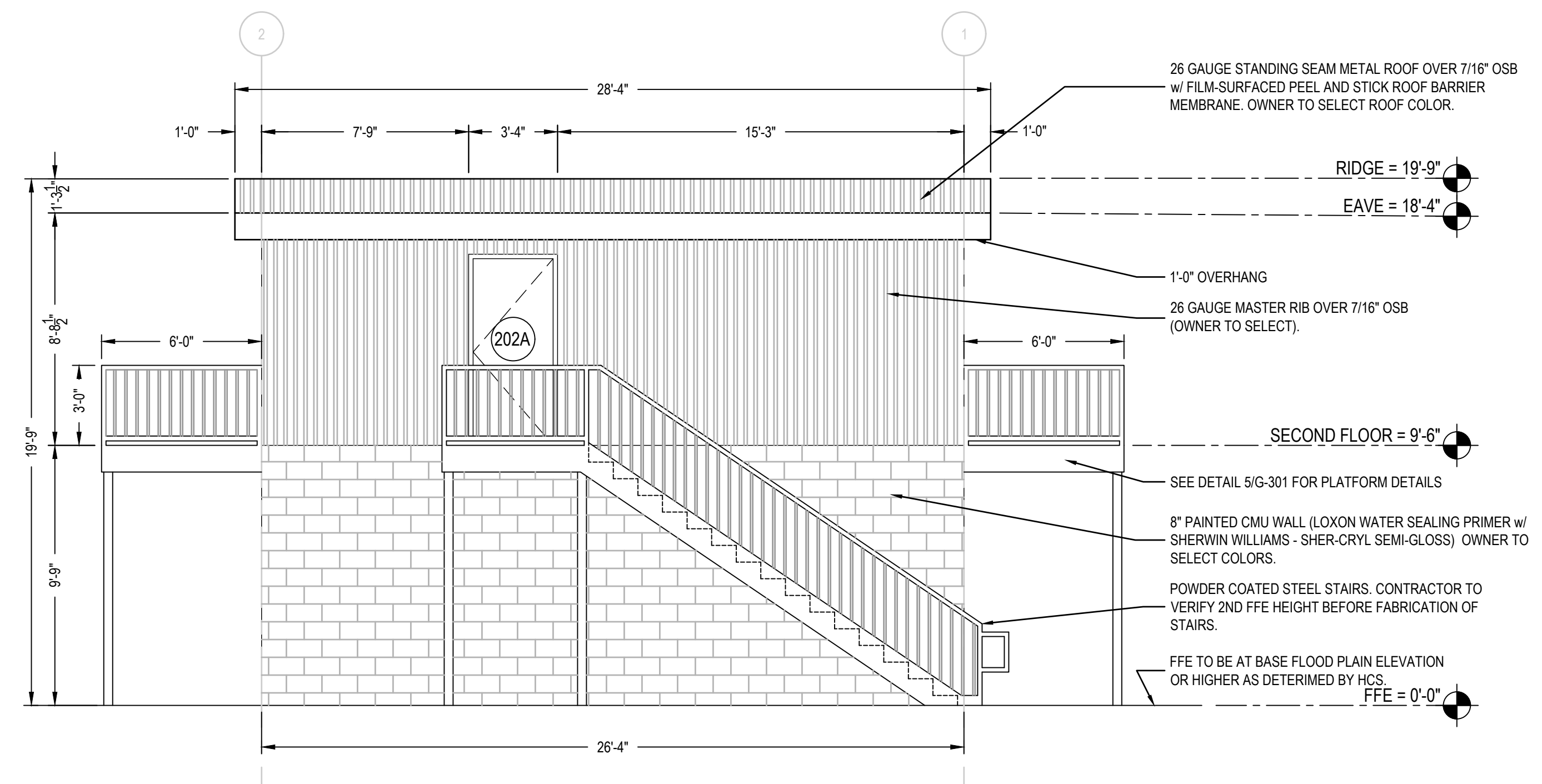
1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"



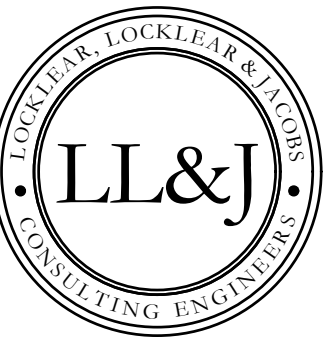
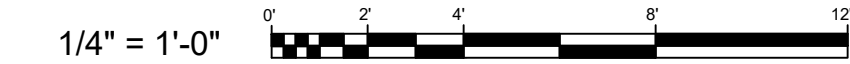
2 EAST ELEVATION
SCALE: 1/4" = 1'-0"



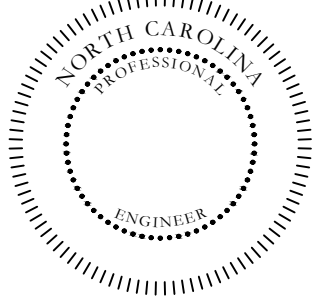
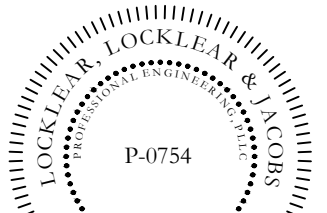
3 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



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



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PROJECT INFORMATION:

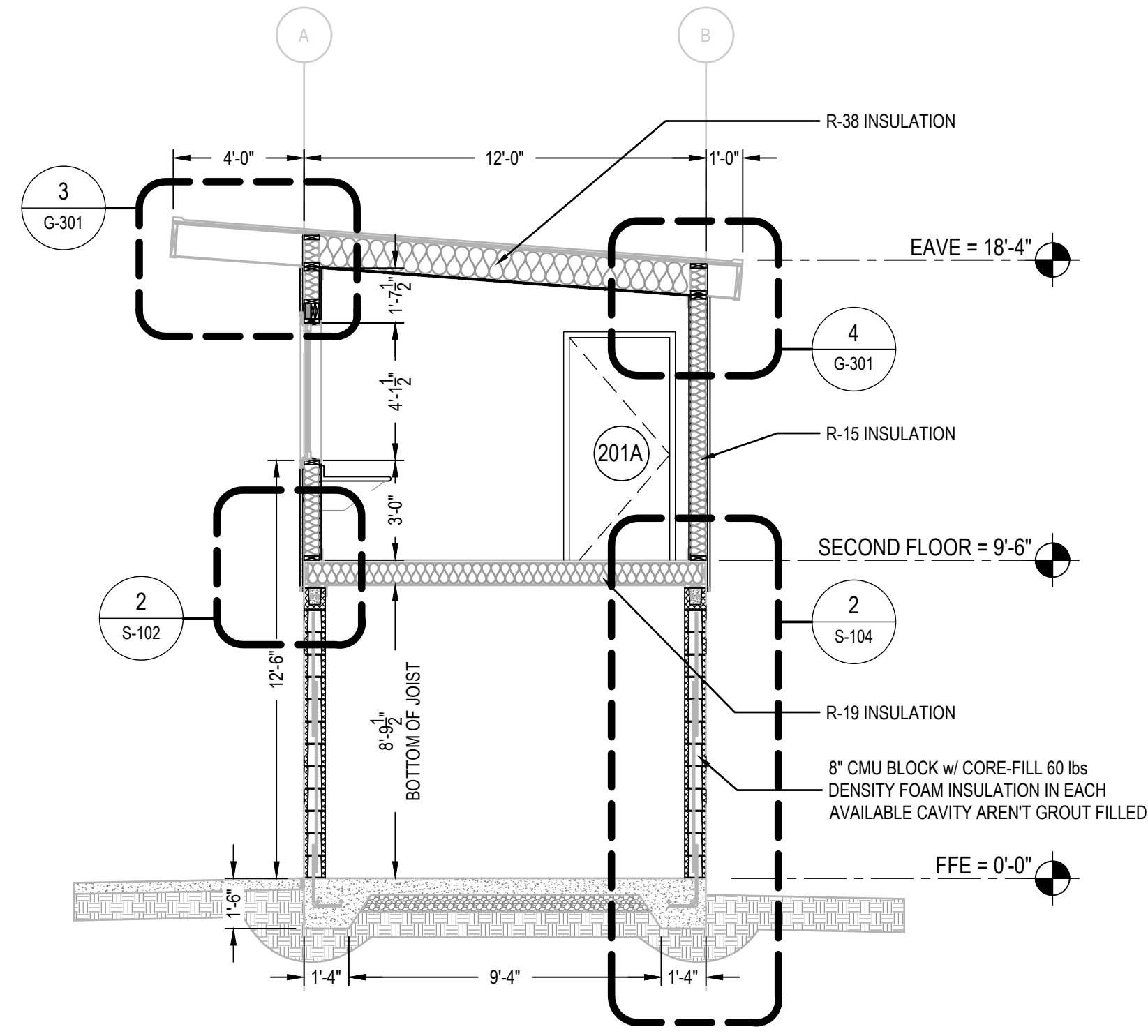
REV#	DATE	DESCRIPTION
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DATE: 12/2/2022
DRAWN BY: RDH
CHECKED BY: JEL

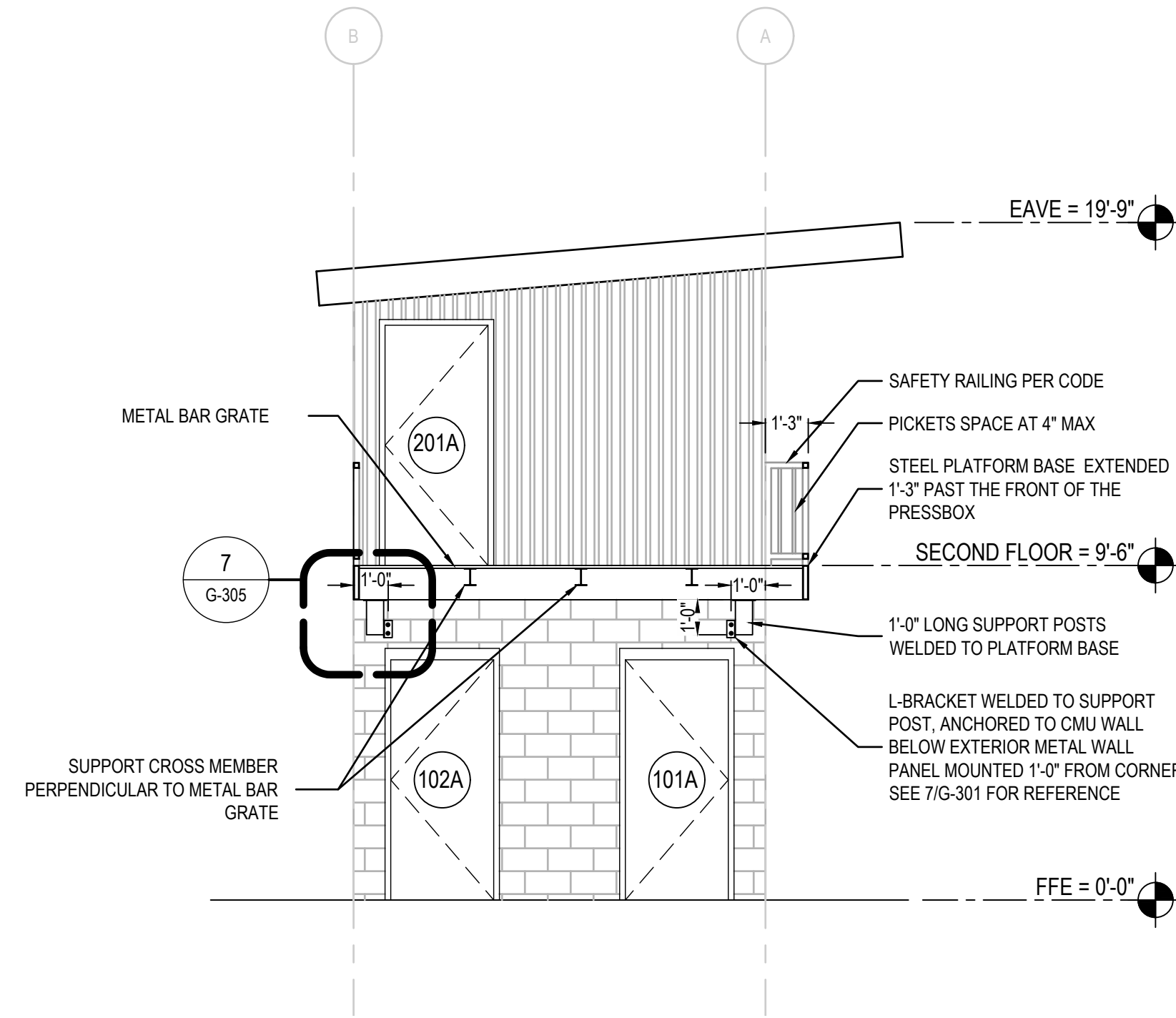
SHEET TITLE:
EXTERIOR ELEVATIONS

SHEET NUMBER:
G-201

PROJECT# 21-1110

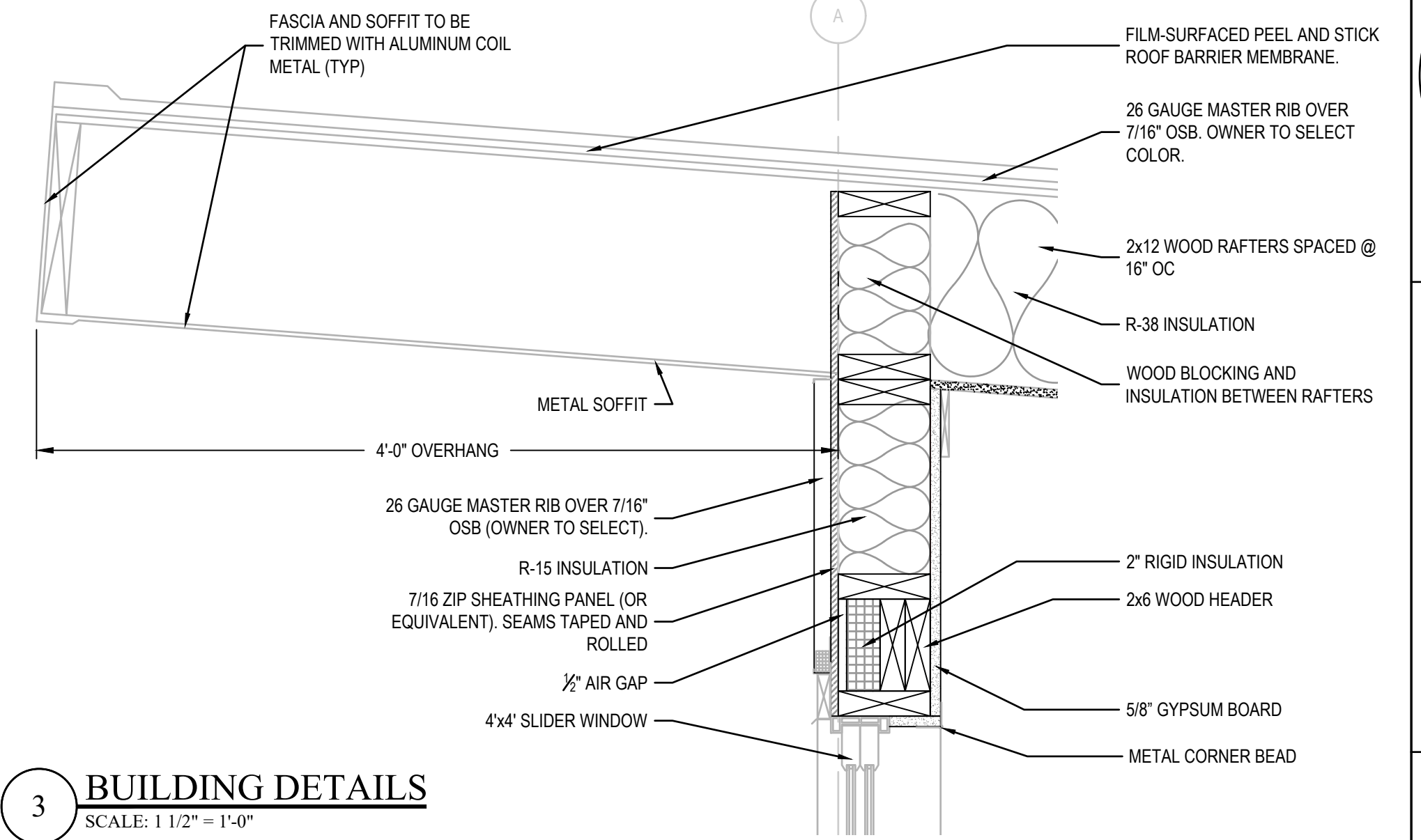


1 OVERALL BUILDING SECTION
SCALE: 1/4" = 1'-0"

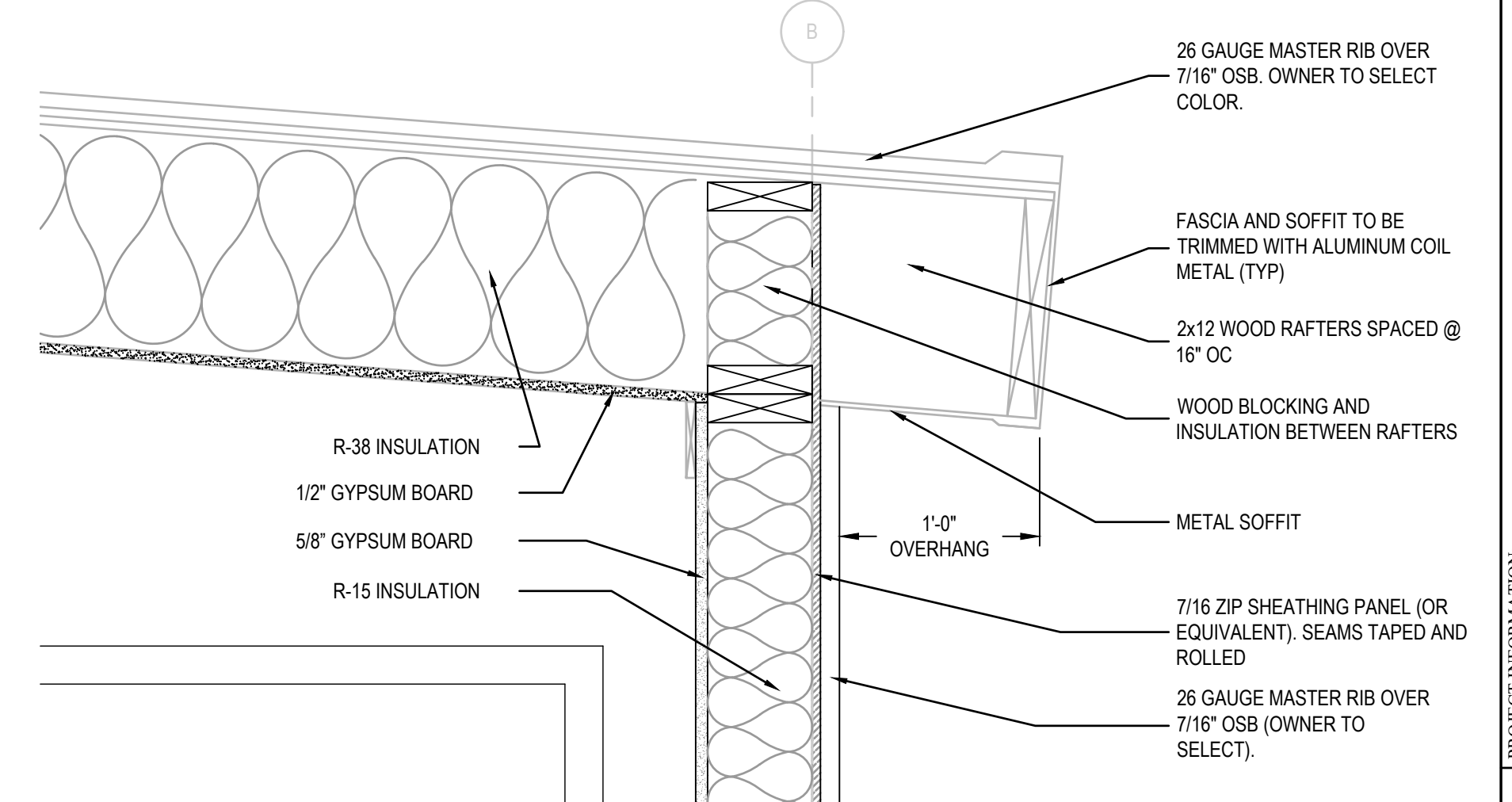


2 MEDIA PLATFORM SECTION
SCALE: 1/4" = 1'-0"

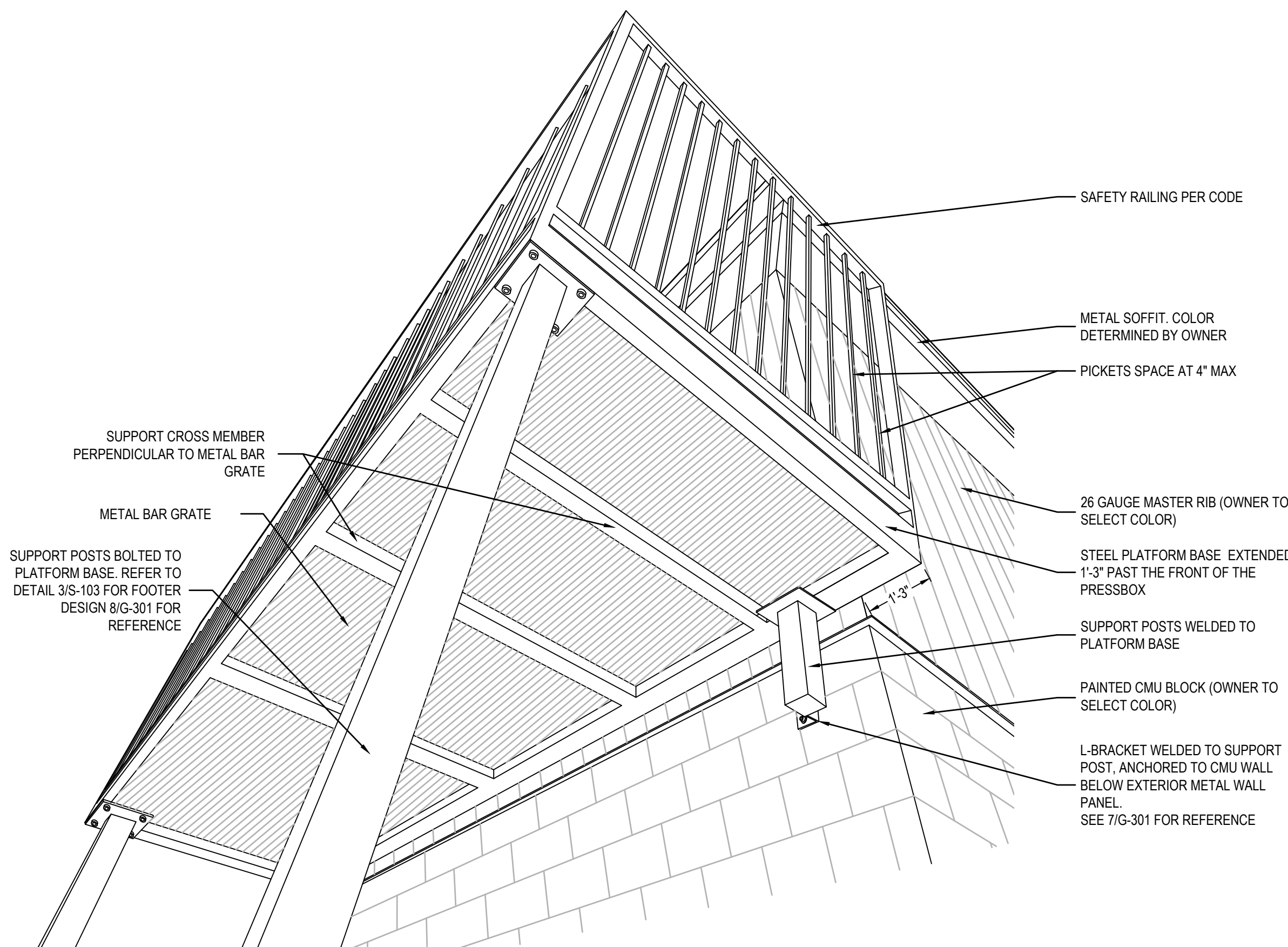
NOTE: WHERE SUPPORT BRACKETS ARE ANCHORED TO THE CMU WALL, THOSE CELLS ARE TO BE GROUT FILLED AND REINFORCED W/ #5 REBAR REINFORCEMENT.



3 BUILDING DETAILS
SCALE: 1 1/2" = 1'-0"

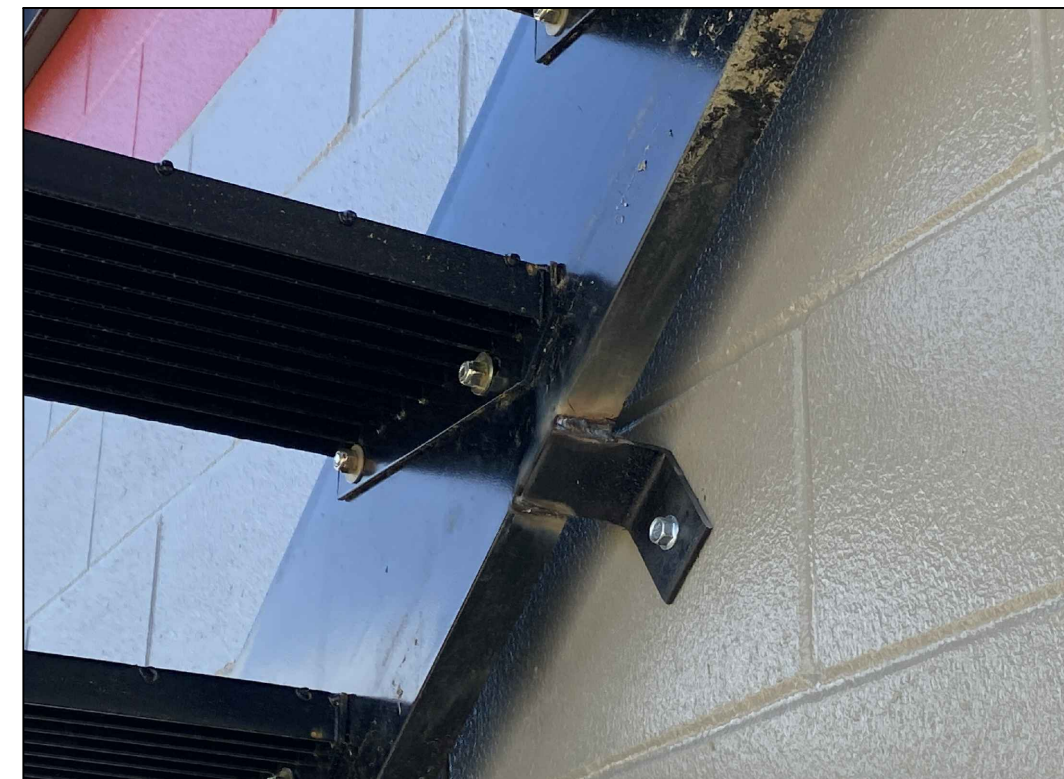


4 BUILDING DETAILS
SCALE: 1 1/2" = 1'-0"

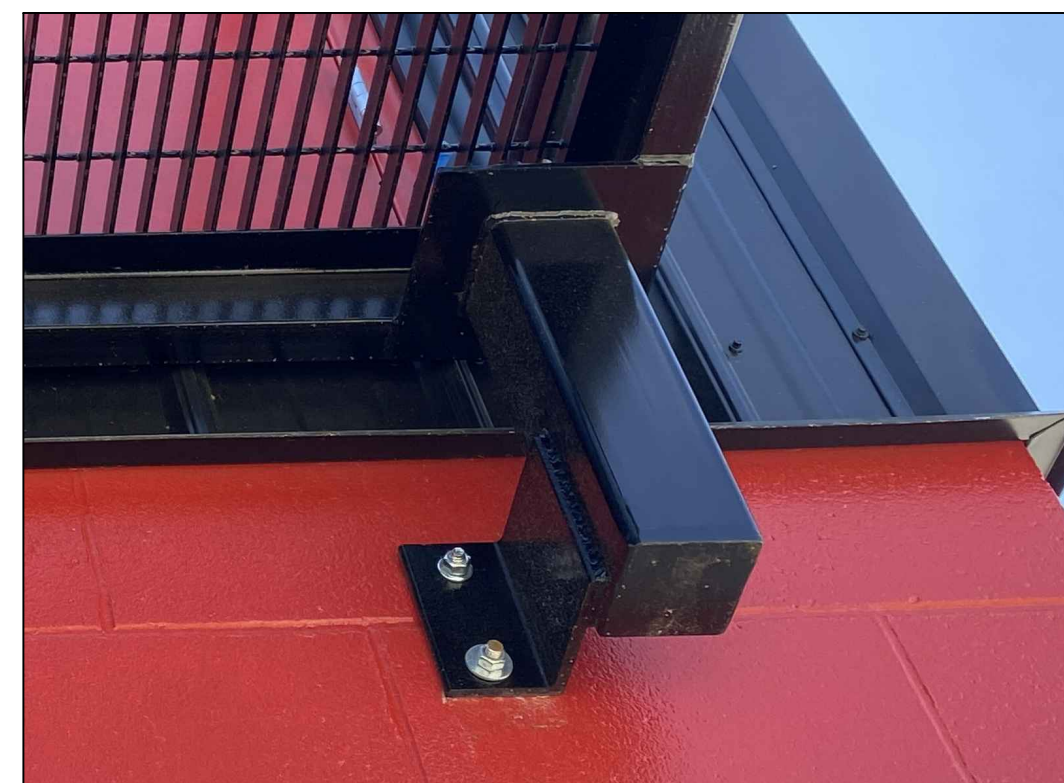


5 MEDIA PLATFORM DETAIL
NTS

NOTE: THIS DRAWING IS FOR REFERENCE ONLY. ALL DIMENSIONS AND STRUCTURAL CONNECTIONS ARE TO BE DESIGNED BY FABRICATOR PER THE CONTRACTOR'S REQUEST. THE ENTIRE STRUCTURE IS TO BE BLACK POWDER COATED. STAIR CONNECTIONS TO THE BUILDING ARE TO BE DETERMINED BY THE FABRICATOR.



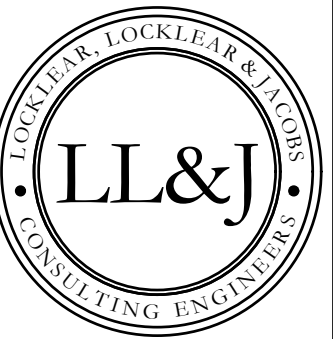
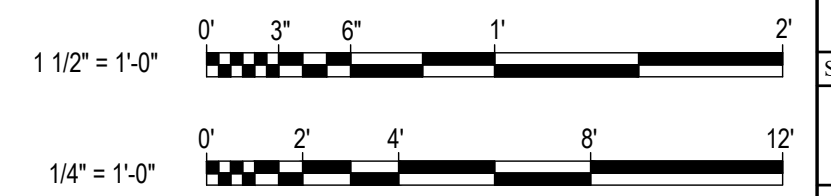
6 STAIR ANCHOR DETAIL
NTS



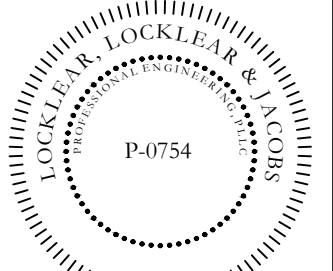
7 PLATFORM BRACKET CONNECTION
NTS



8 SUPPORT POST DETAIL
NTS



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PROJECT INFORMATION:

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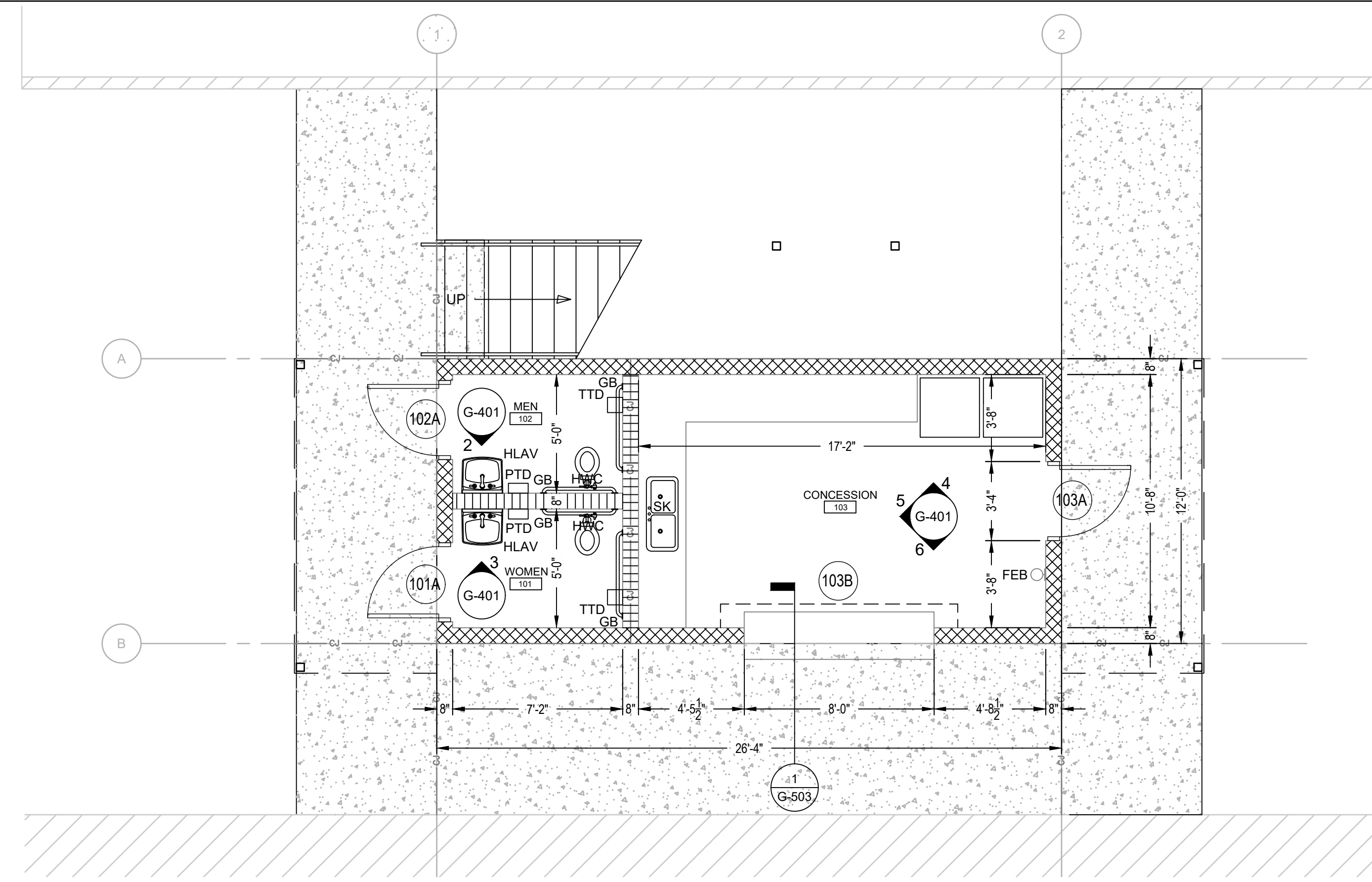
DATE: 12/2/2022
DRAWN BY: RDH
CHECKED BY: JEL
SHEET TITLE

BUILDING SECTIONS AND DETAILS

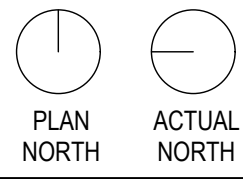
SHEET NUMBER

G-301

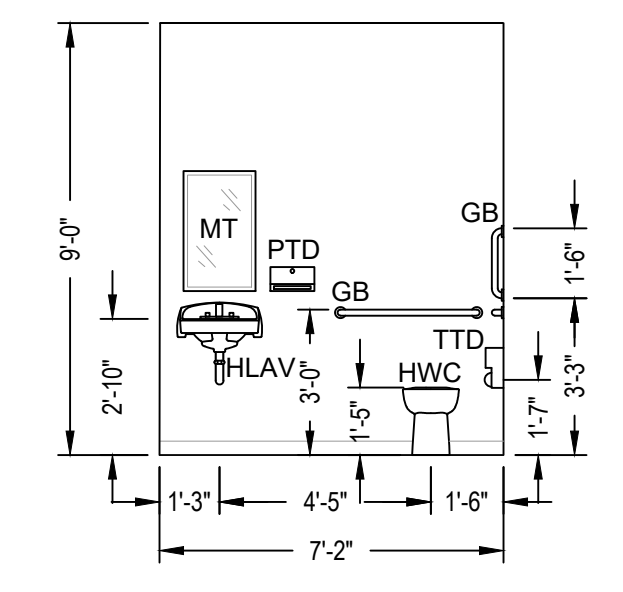
PROJECT# 21-11110



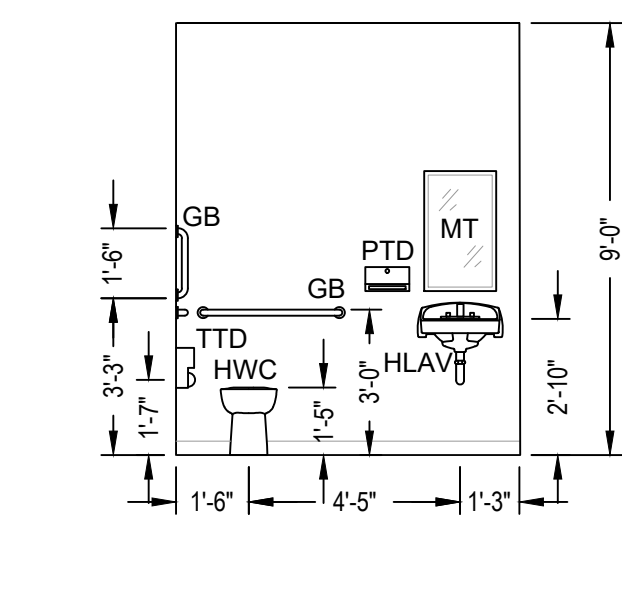
1 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



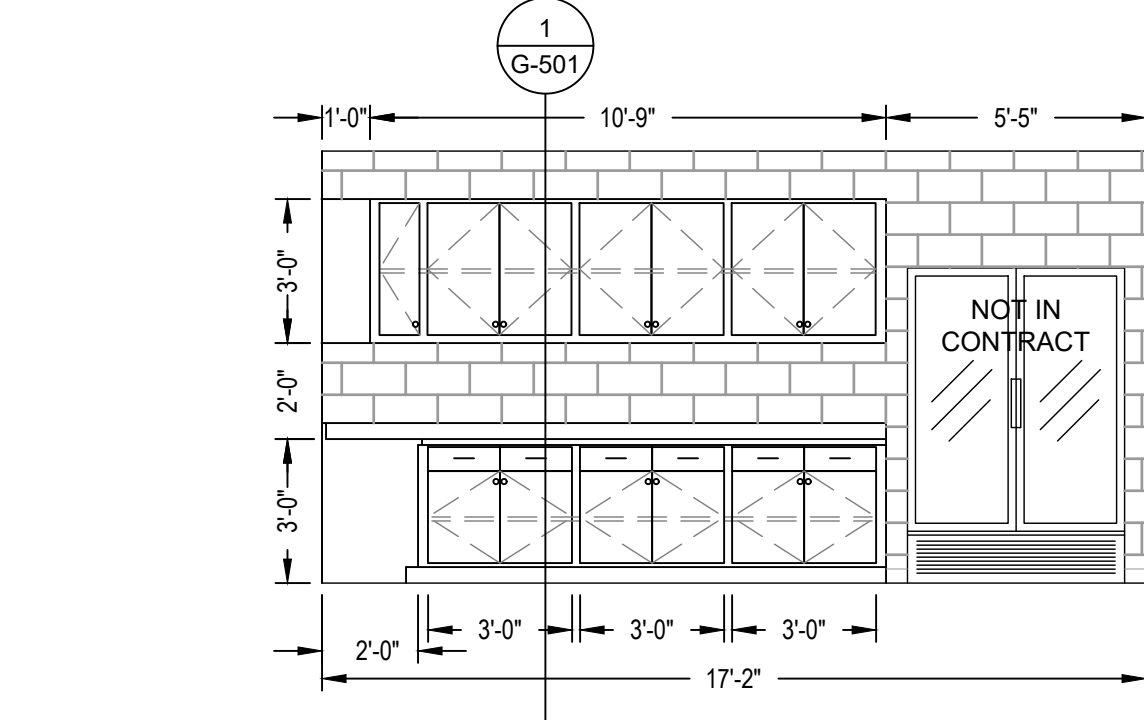
2 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



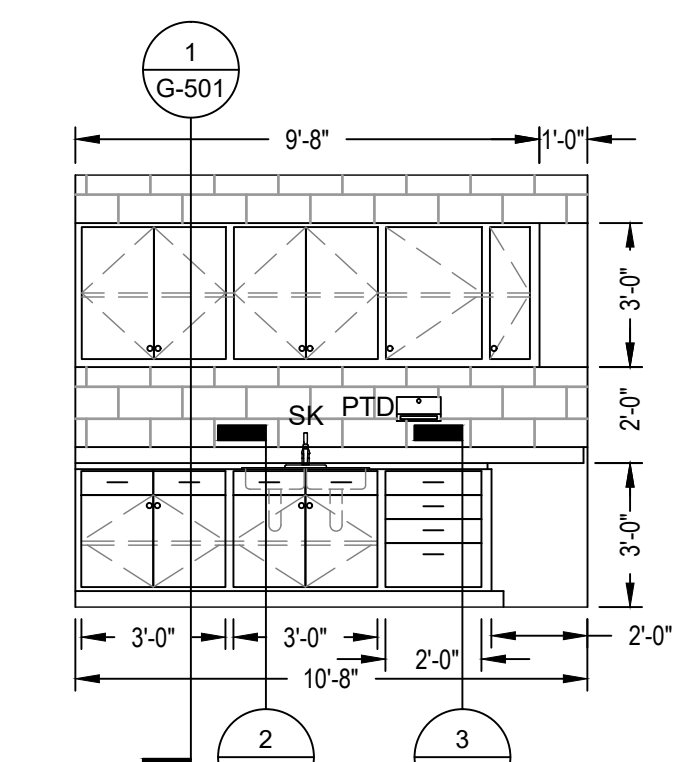
3 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



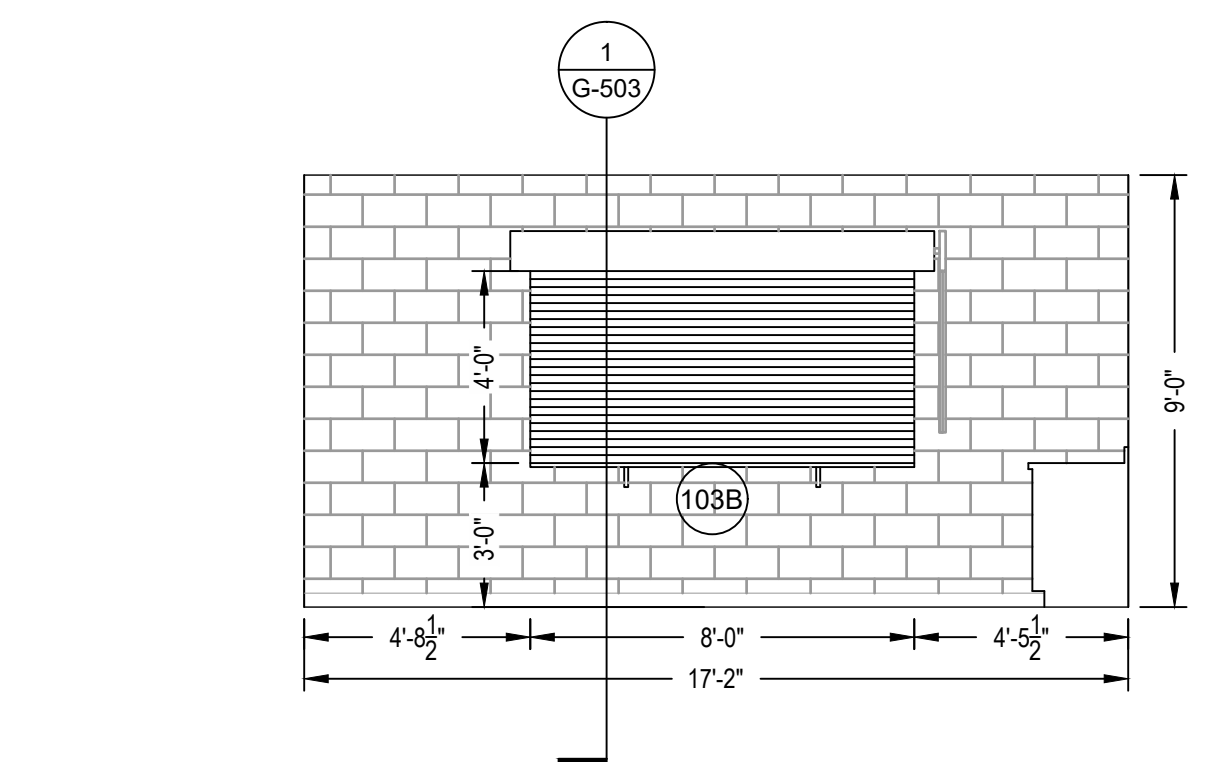
4 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



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



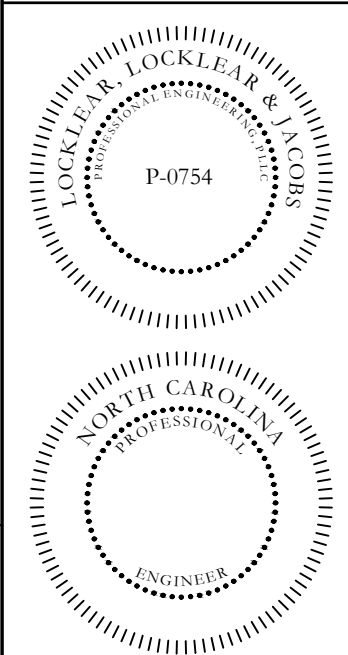
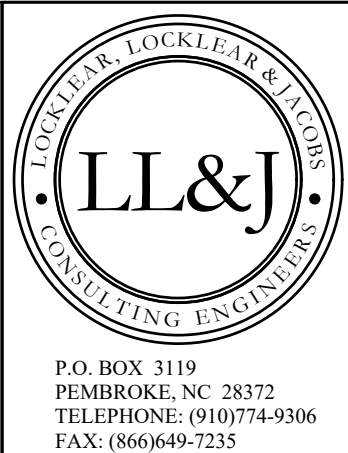
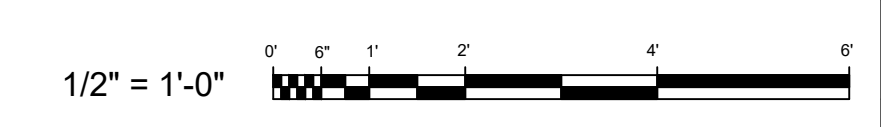
6 FIRST FLOOR PLAN
SCALE: 1/4" = 1'-0"



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



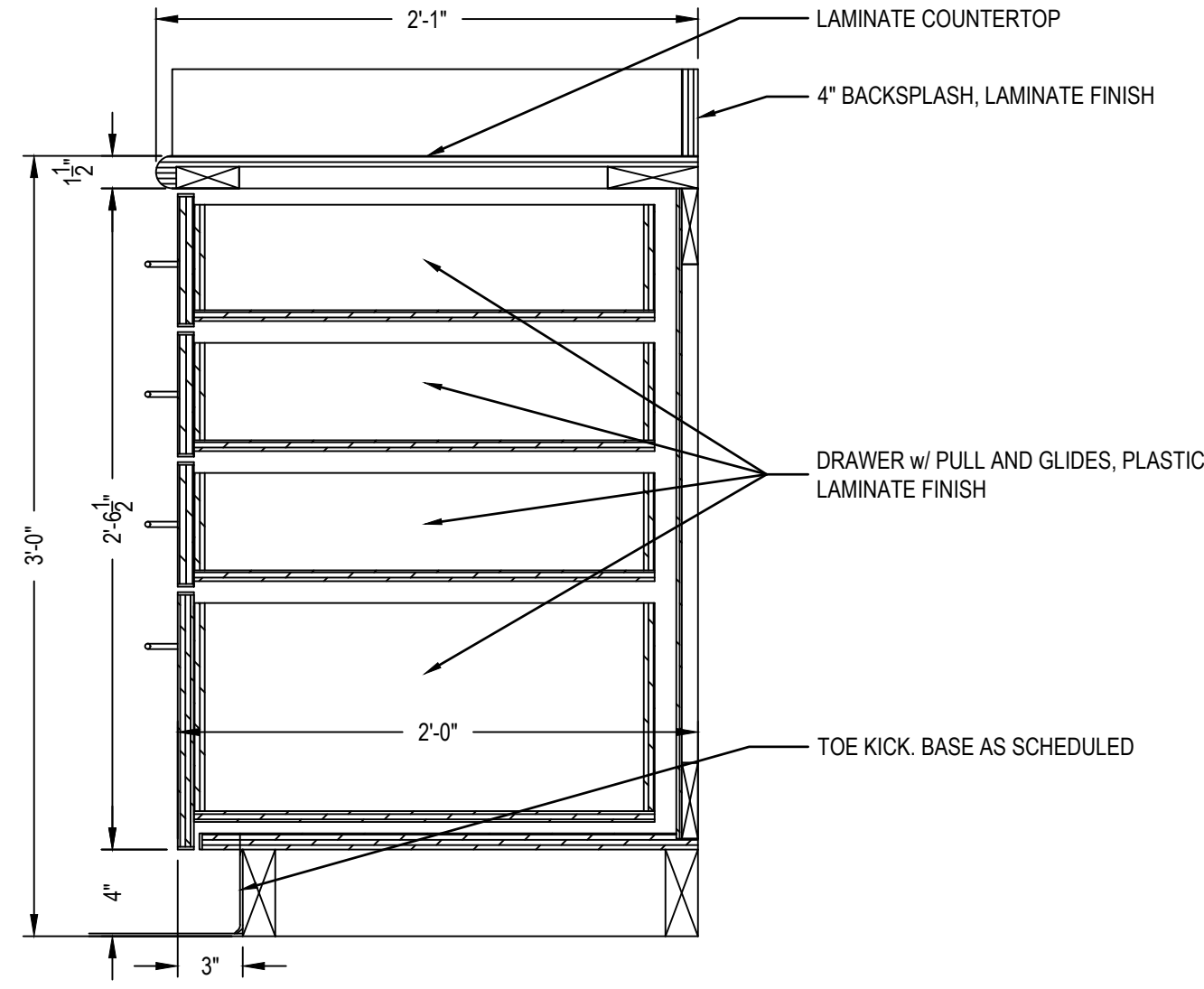
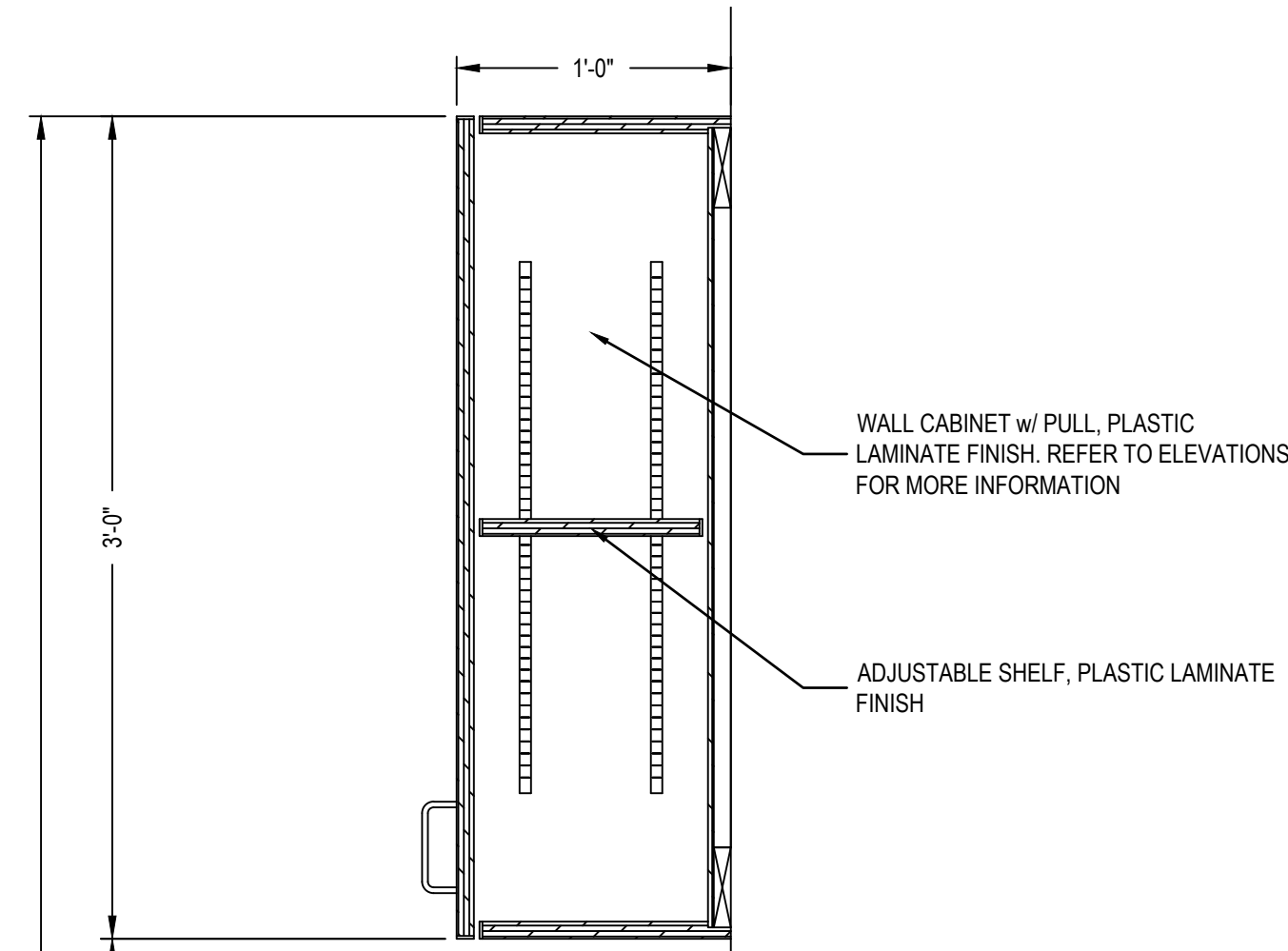
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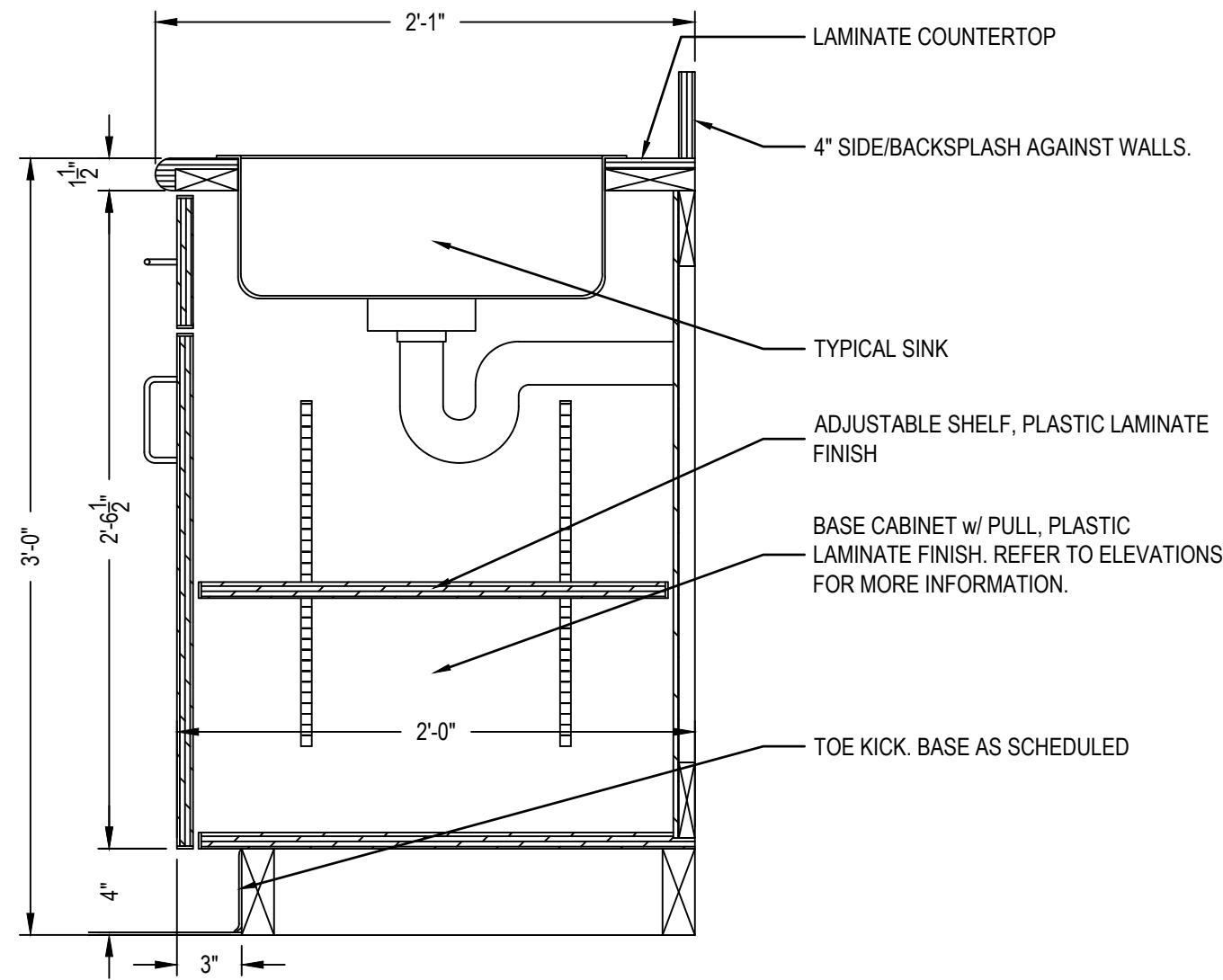
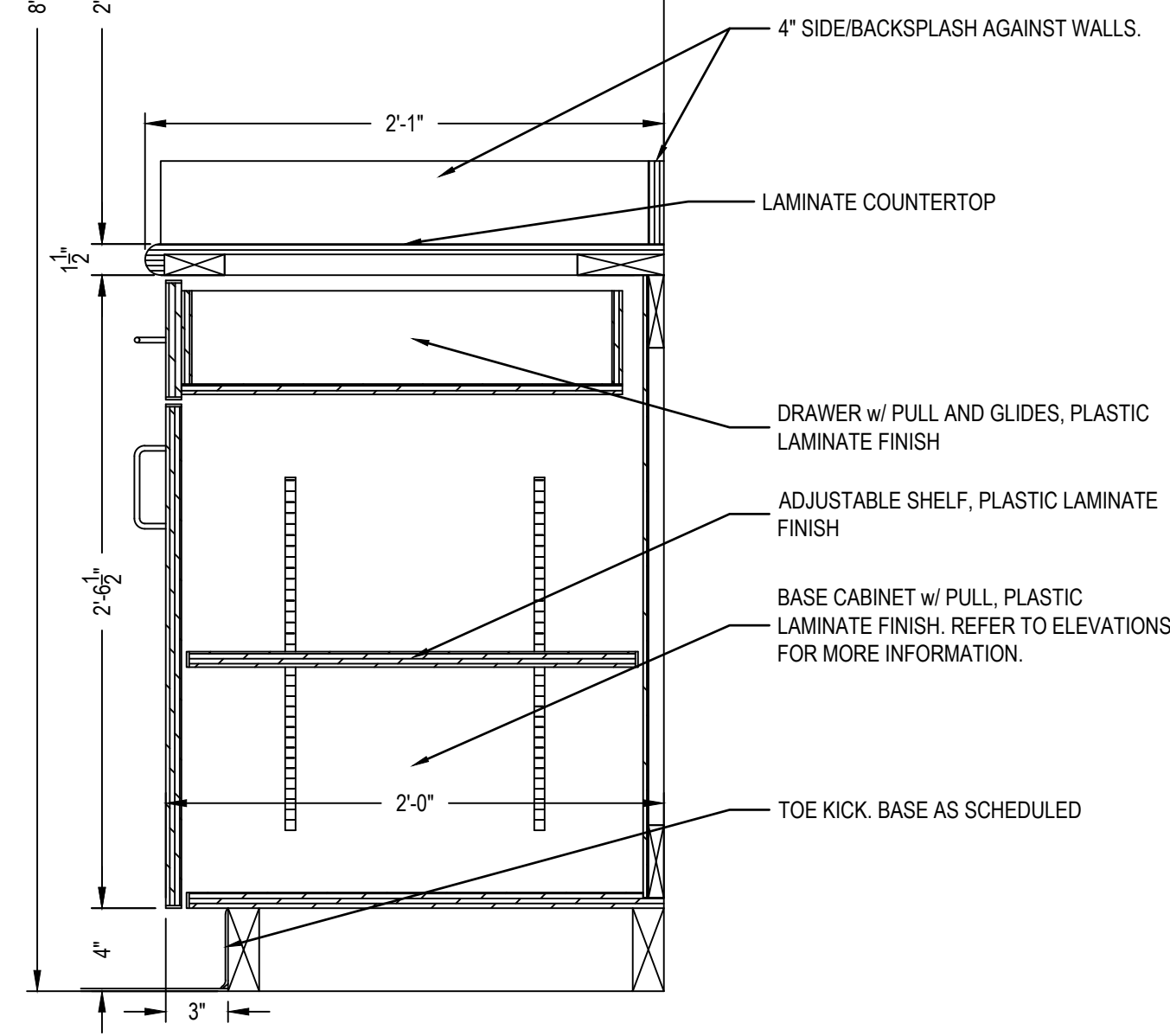
REV#	DATE	DESCRIPTION
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DATE: 12/2/2022
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SHEET TITLE:

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

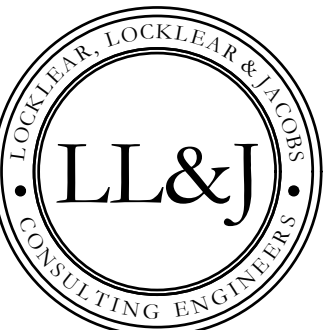


2 DRAWER CABINET SECTION
1 1/2" = 1'-0"

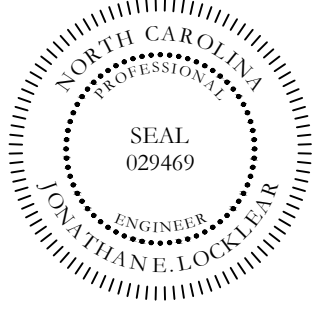
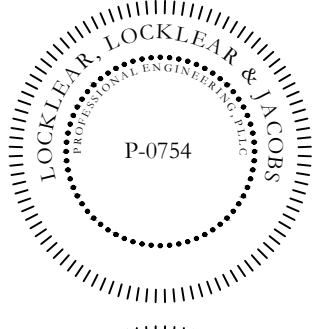


3 SINK BASE CABINET SECTION
1 1/2" = 1'-0"

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



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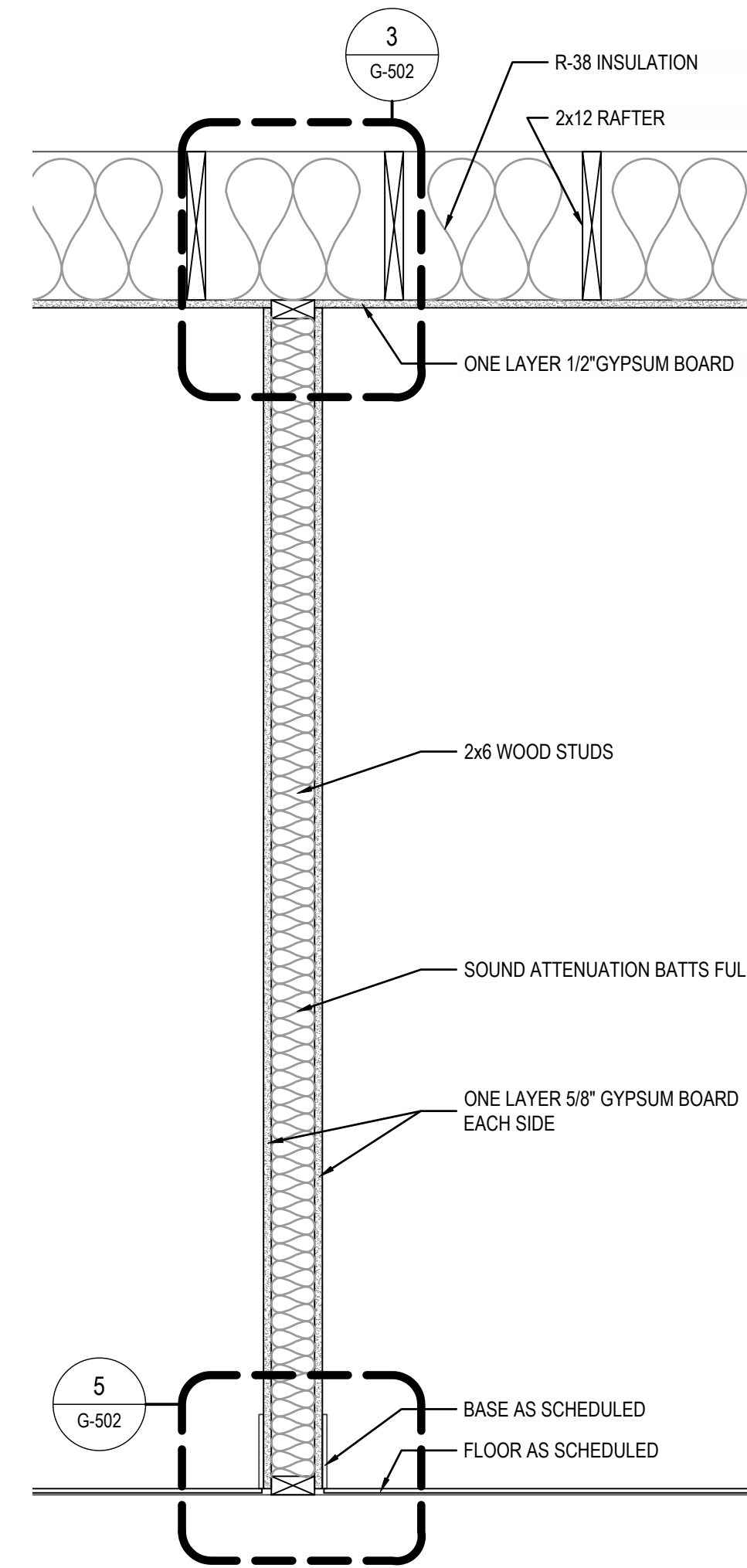
CASEWORK
DETAILS

SHEET NUMBER

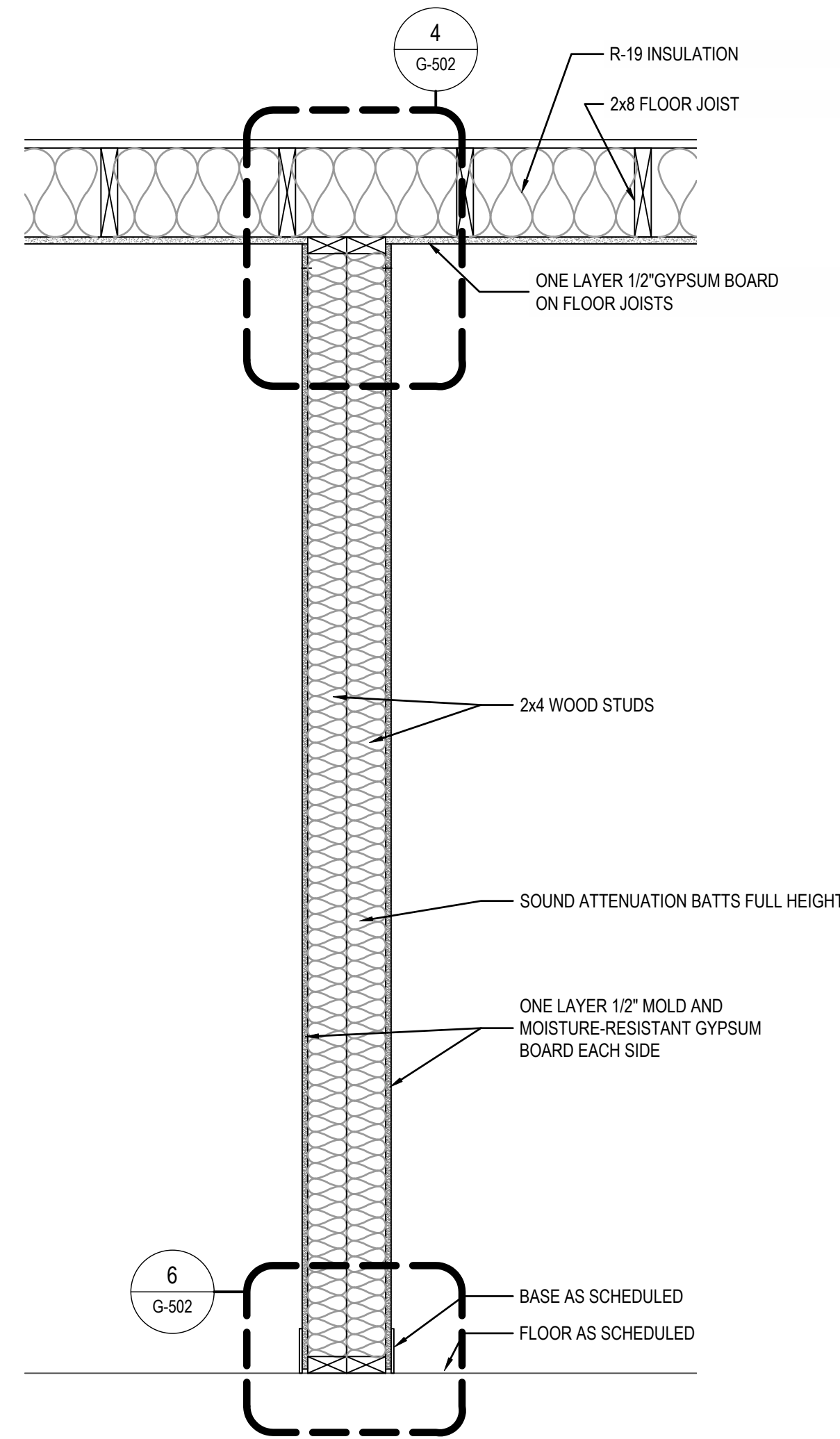
G-501

PROJECT# 21-11110

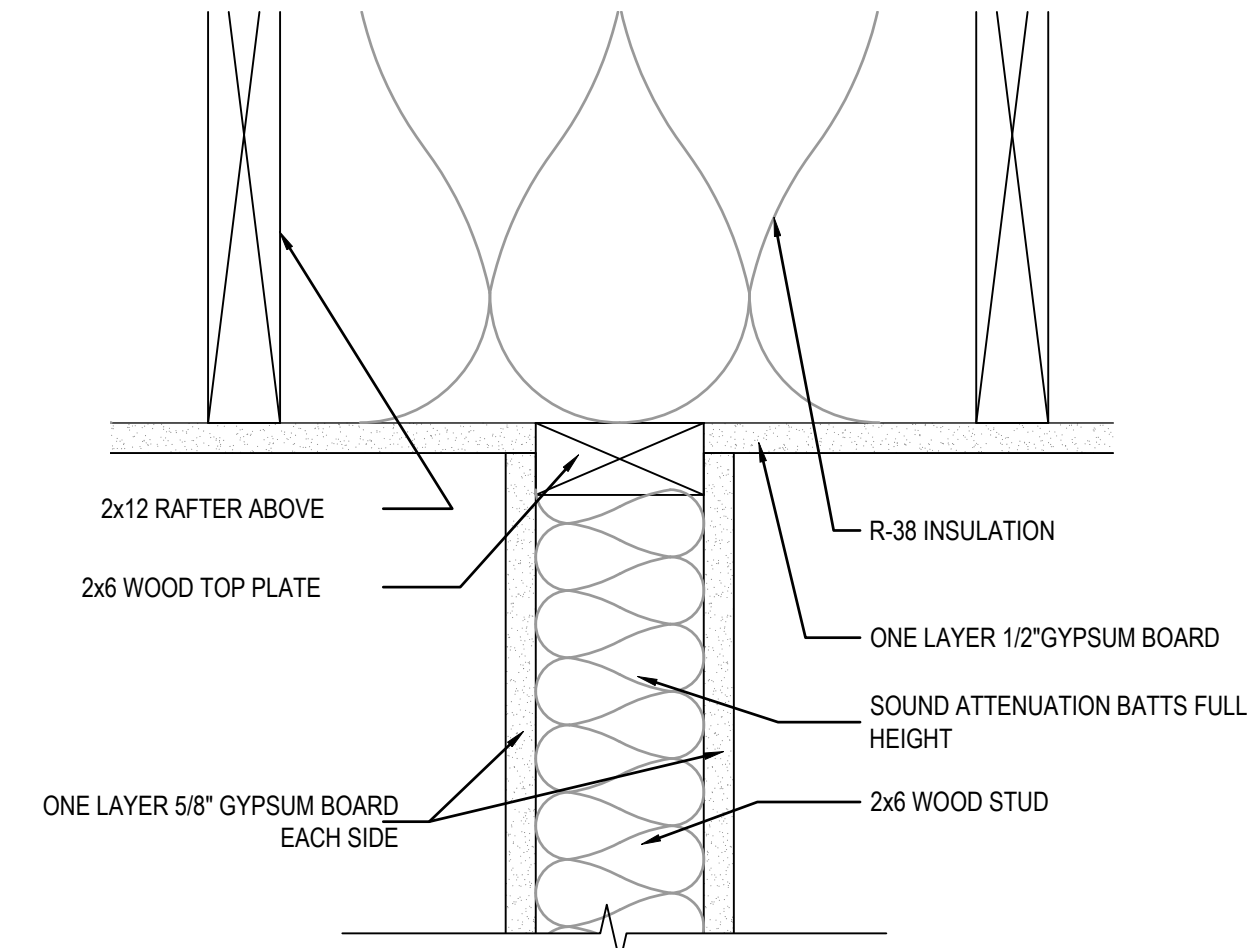




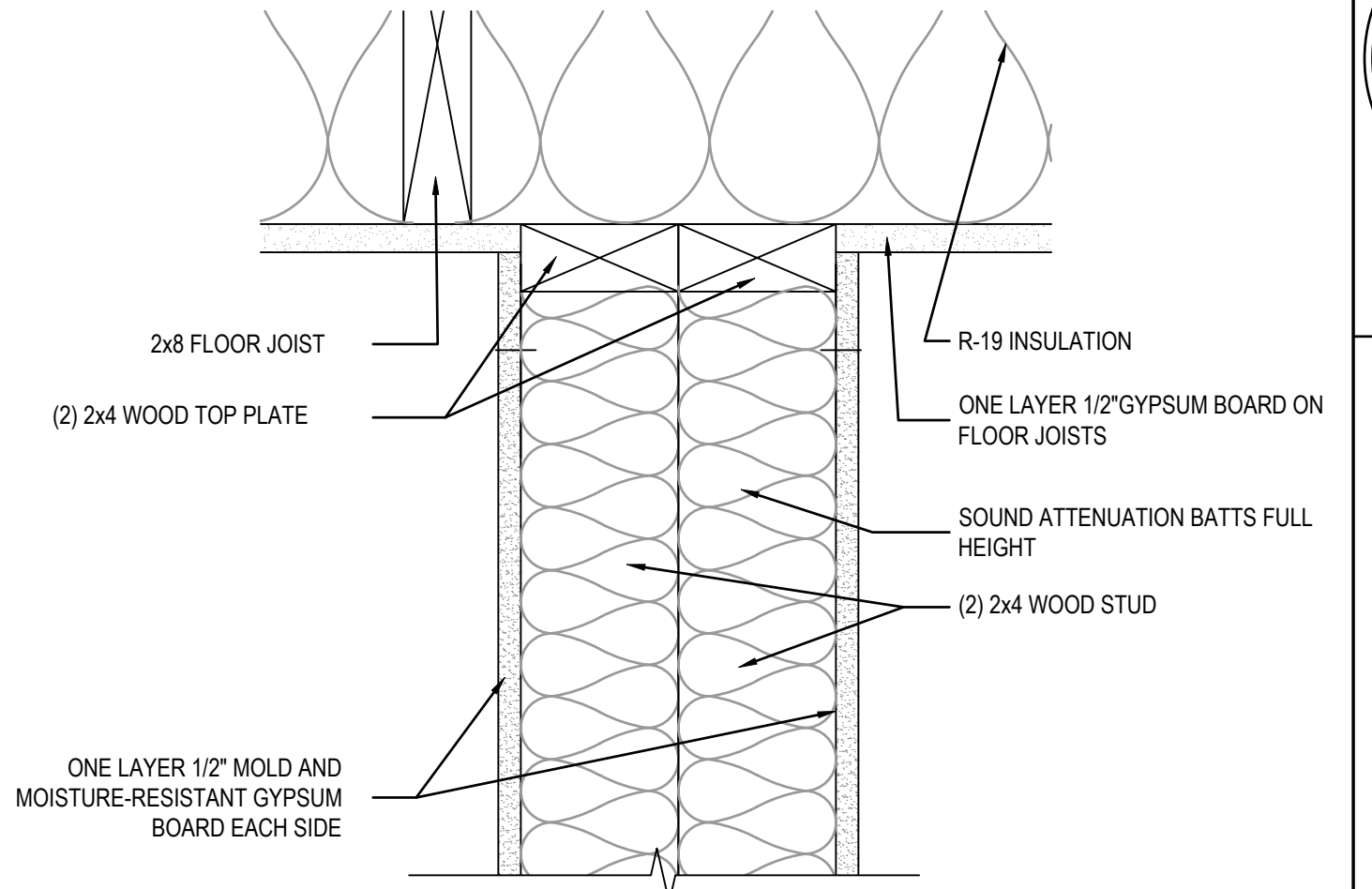
1 PARTITION TYPE P-1
1" = 1'-0"



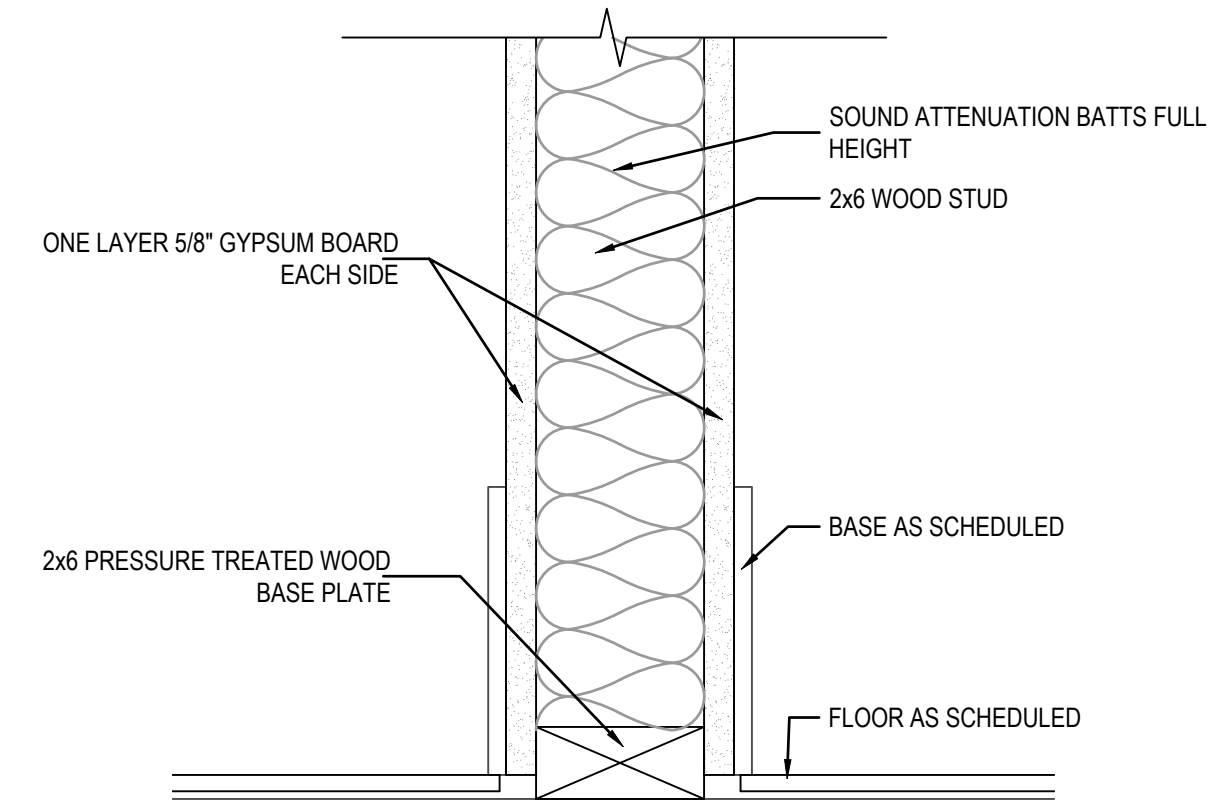
2 PARTITION TYPE P-2
1" = 1'-0"



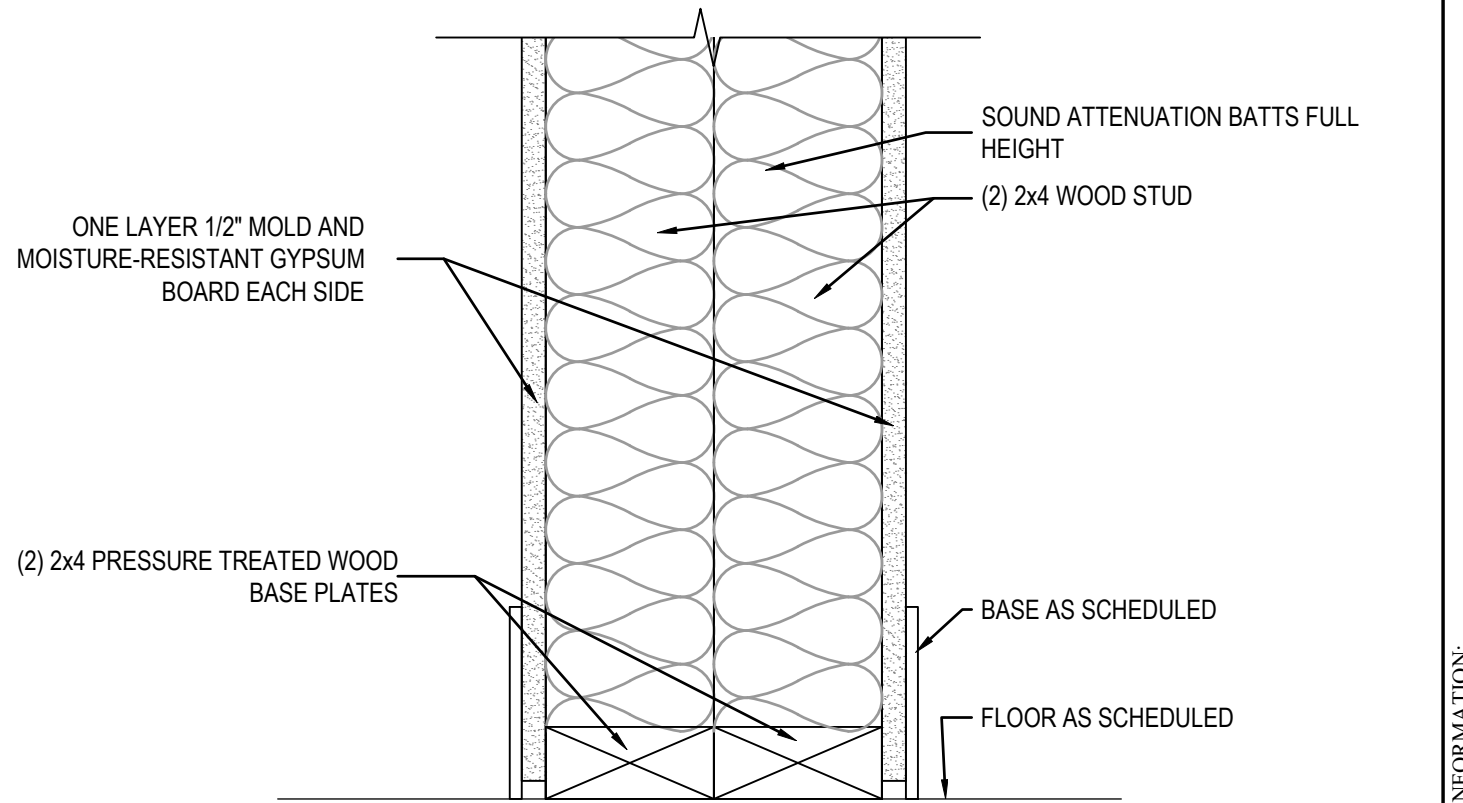
3 TOP OF PARTITION TO RAFTERS
1-1/2" = 1'-0"



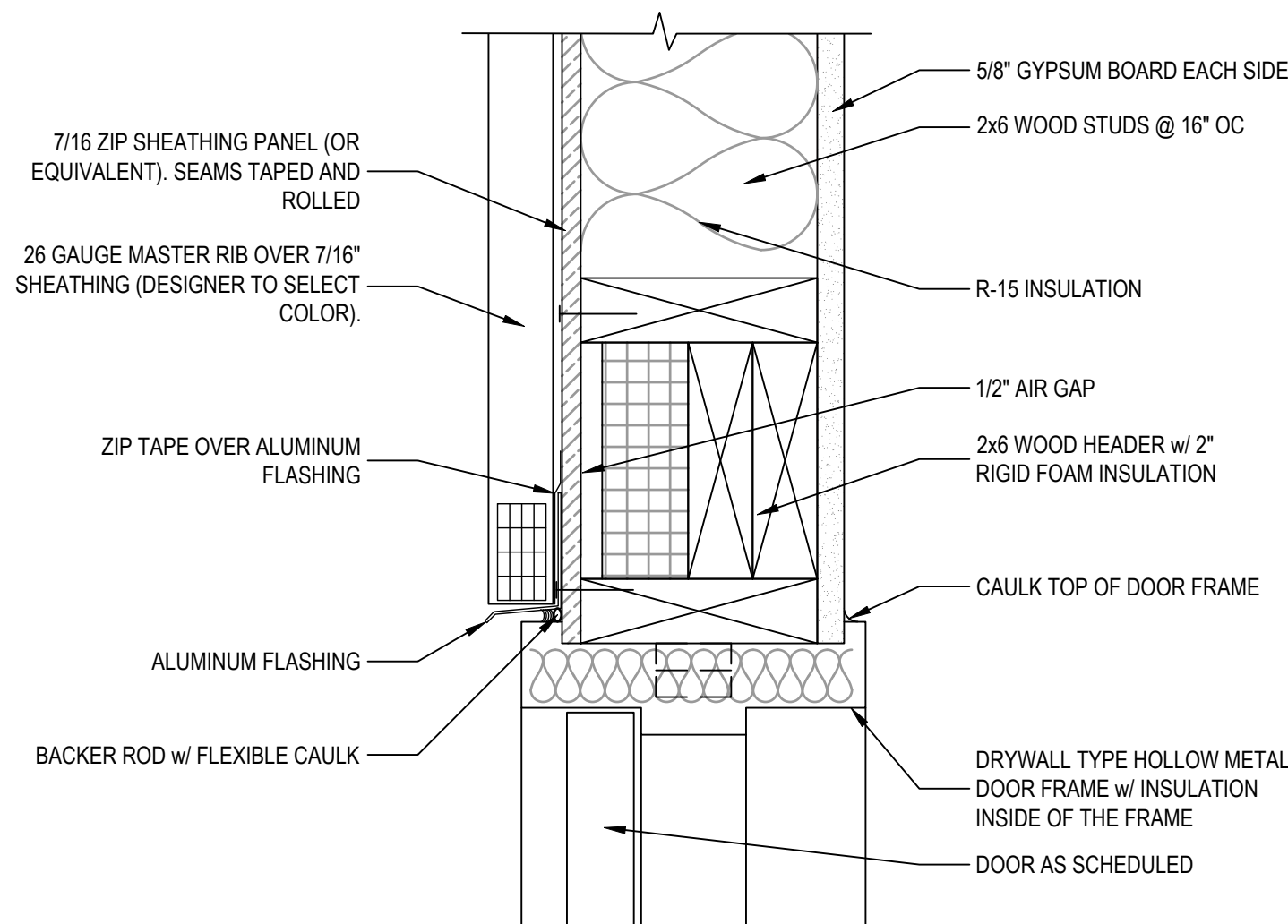
4 TOP OF PARTITION TO RAFTERS
1-1/2" = 1'-0"



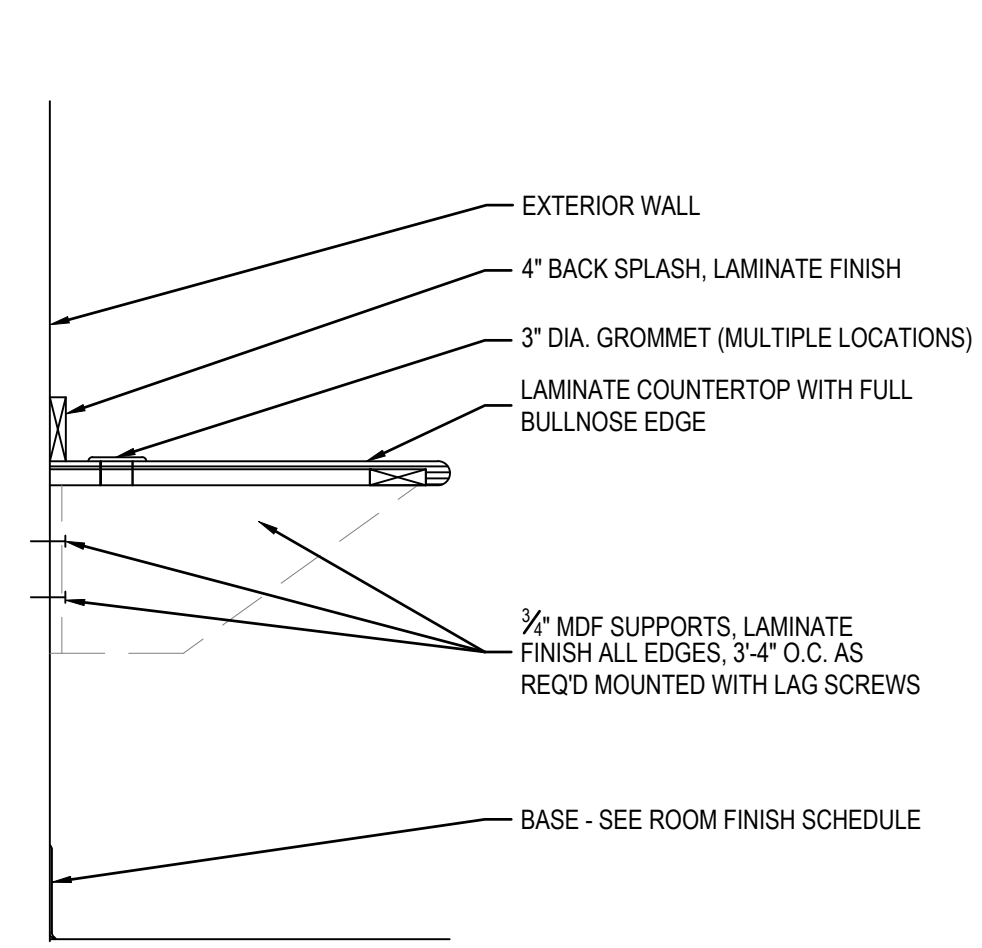
5 BASE OF PARTITION
1-1/2" = 1'-0"



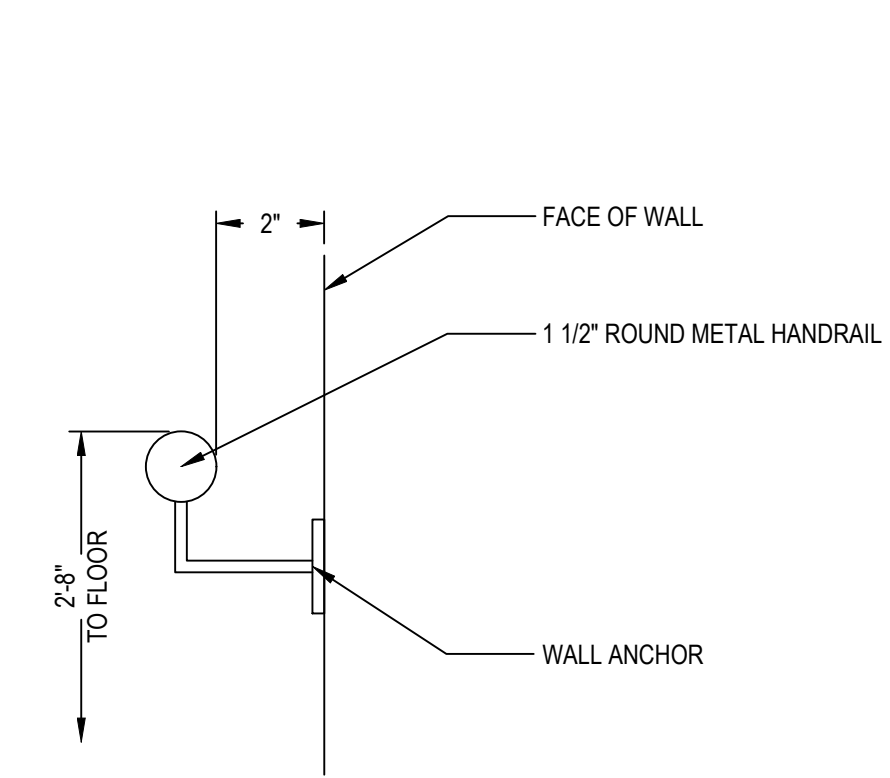
6 BASE OF PARTITION
1-1/2" = 1'-0"



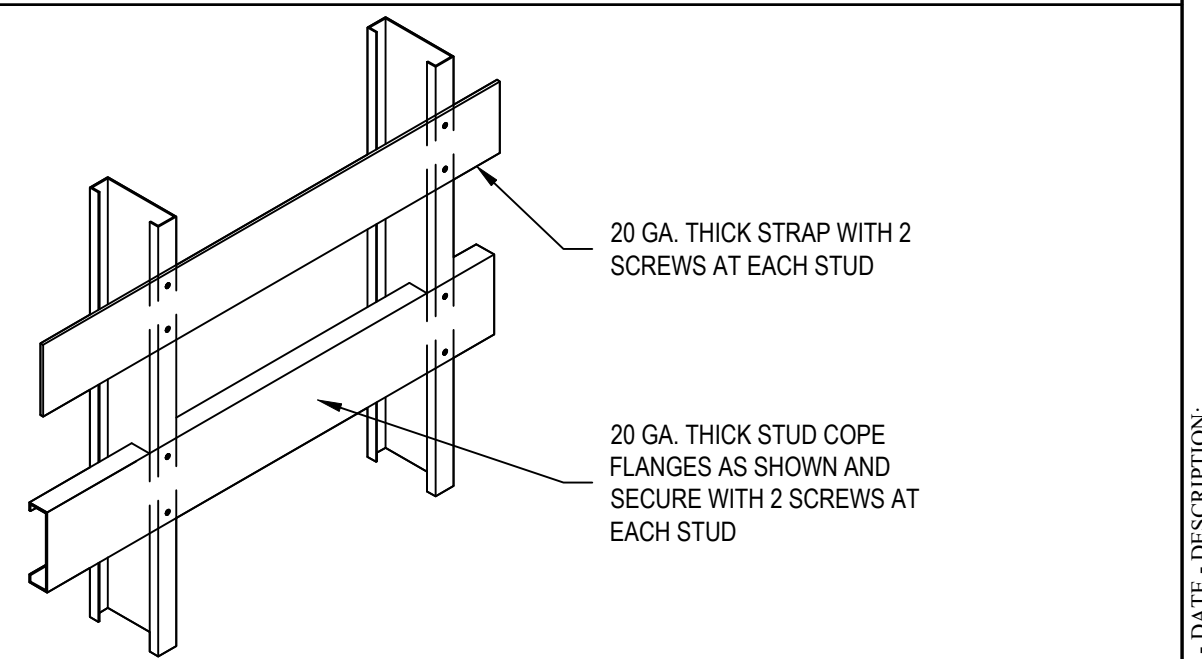
7 METAL PANEL EXTERIOR HEAD/JAMB DETAIL
3" = 1'-0"



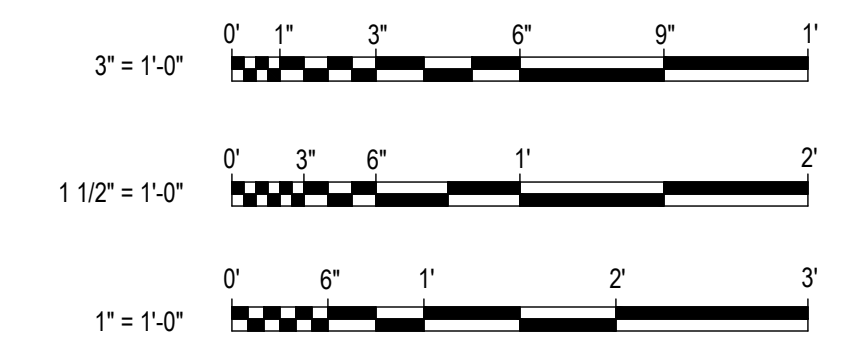
8 CONTINUOUS COUNTER TOP DETAIL
1" = 1'-0"



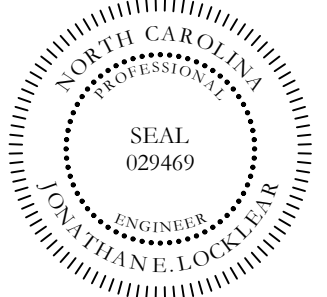
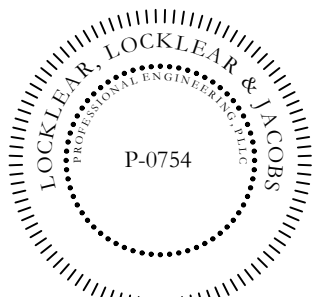
9 HANDRAIL DETAIL
NTS



10 CABINET BLOCKING DETAIL
NTS



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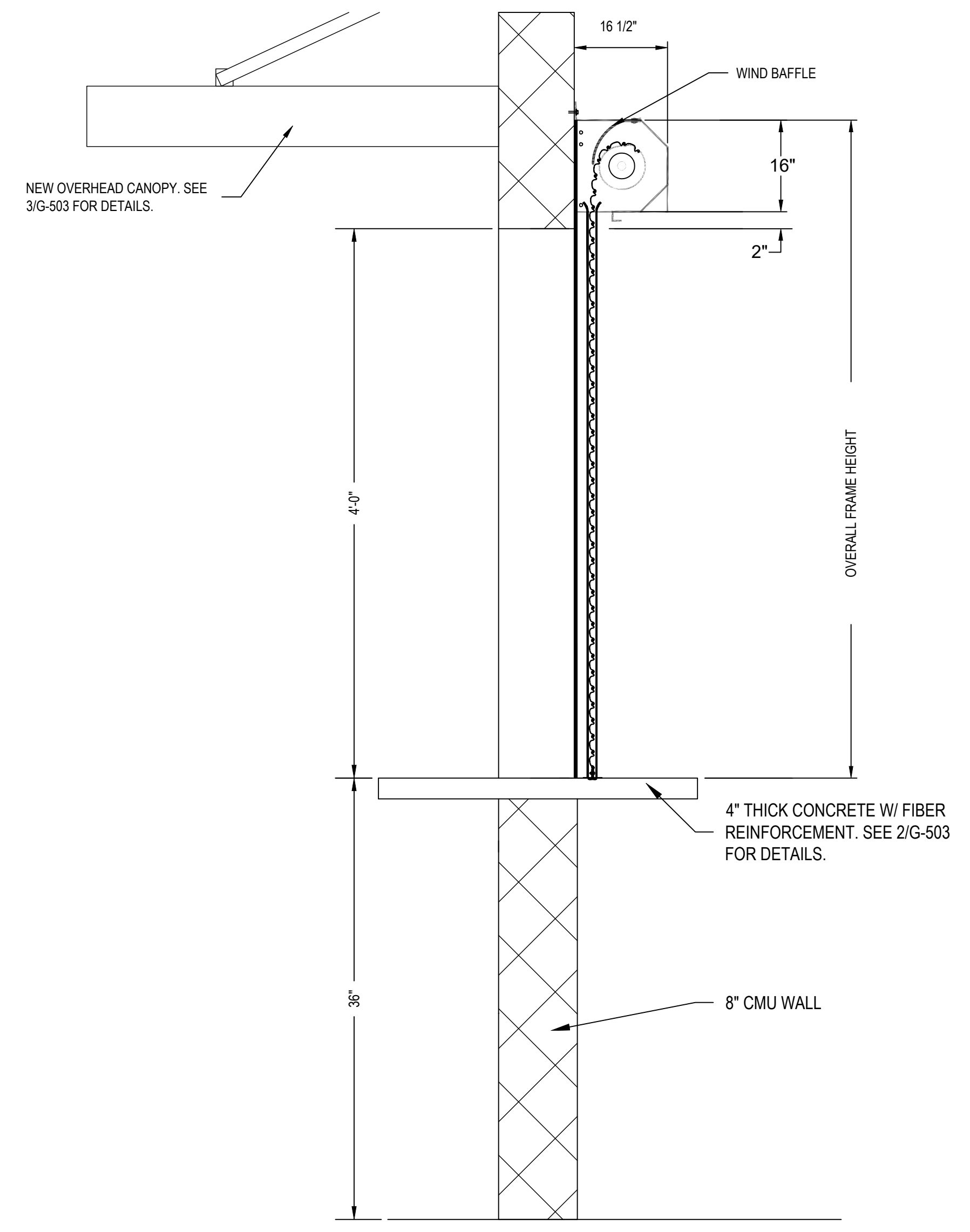
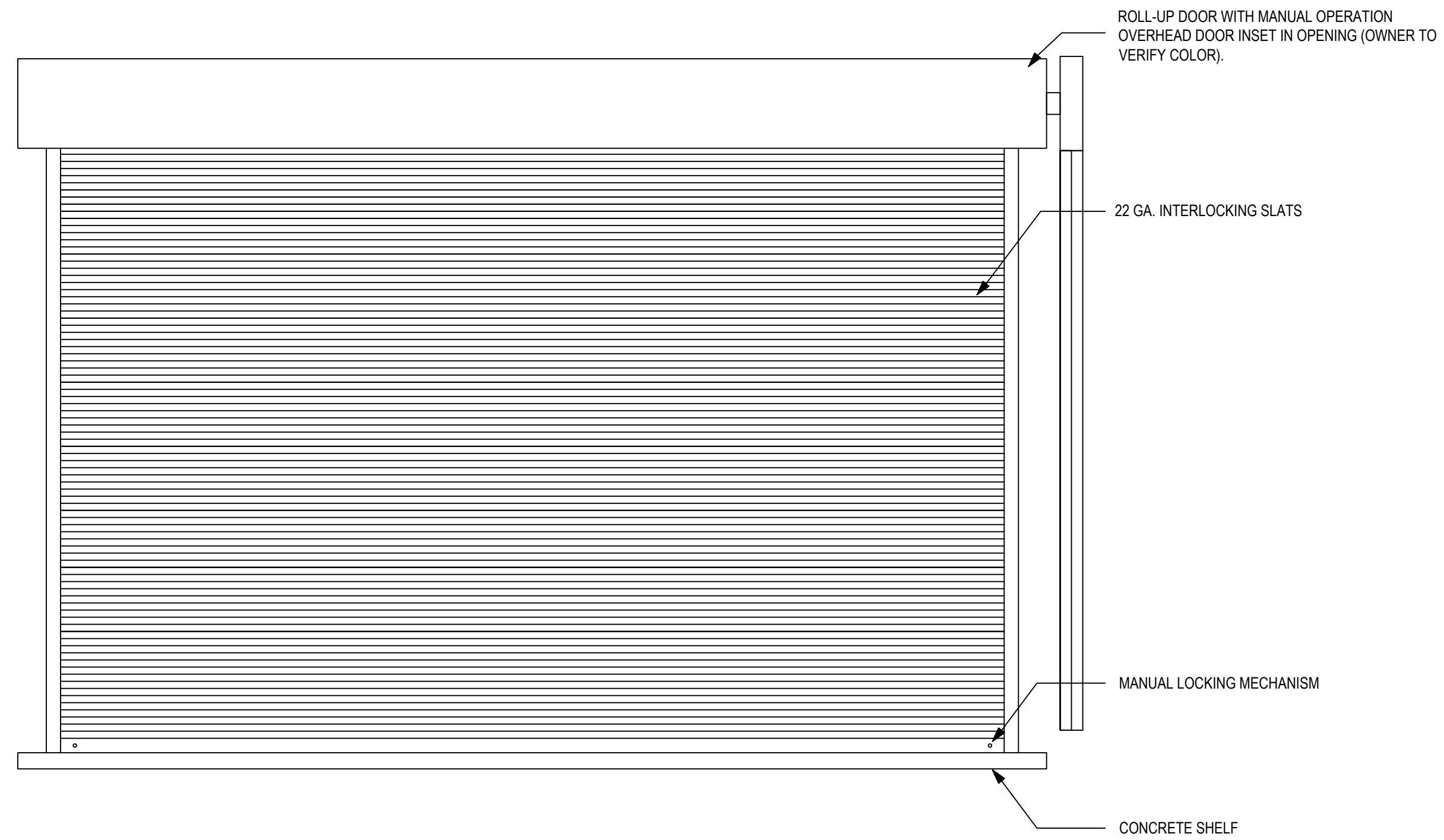
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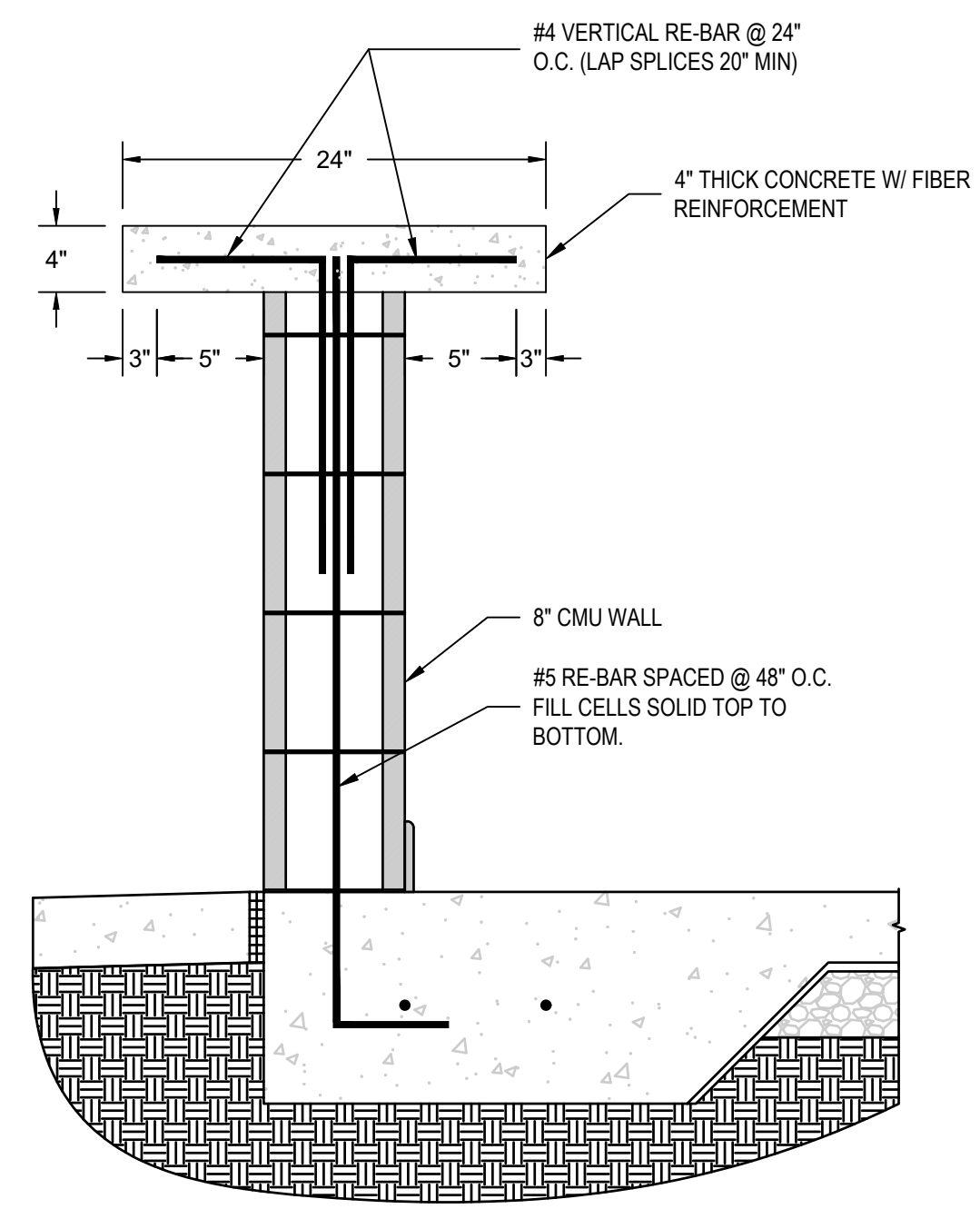
NO.	DATE	DESCRIPTION
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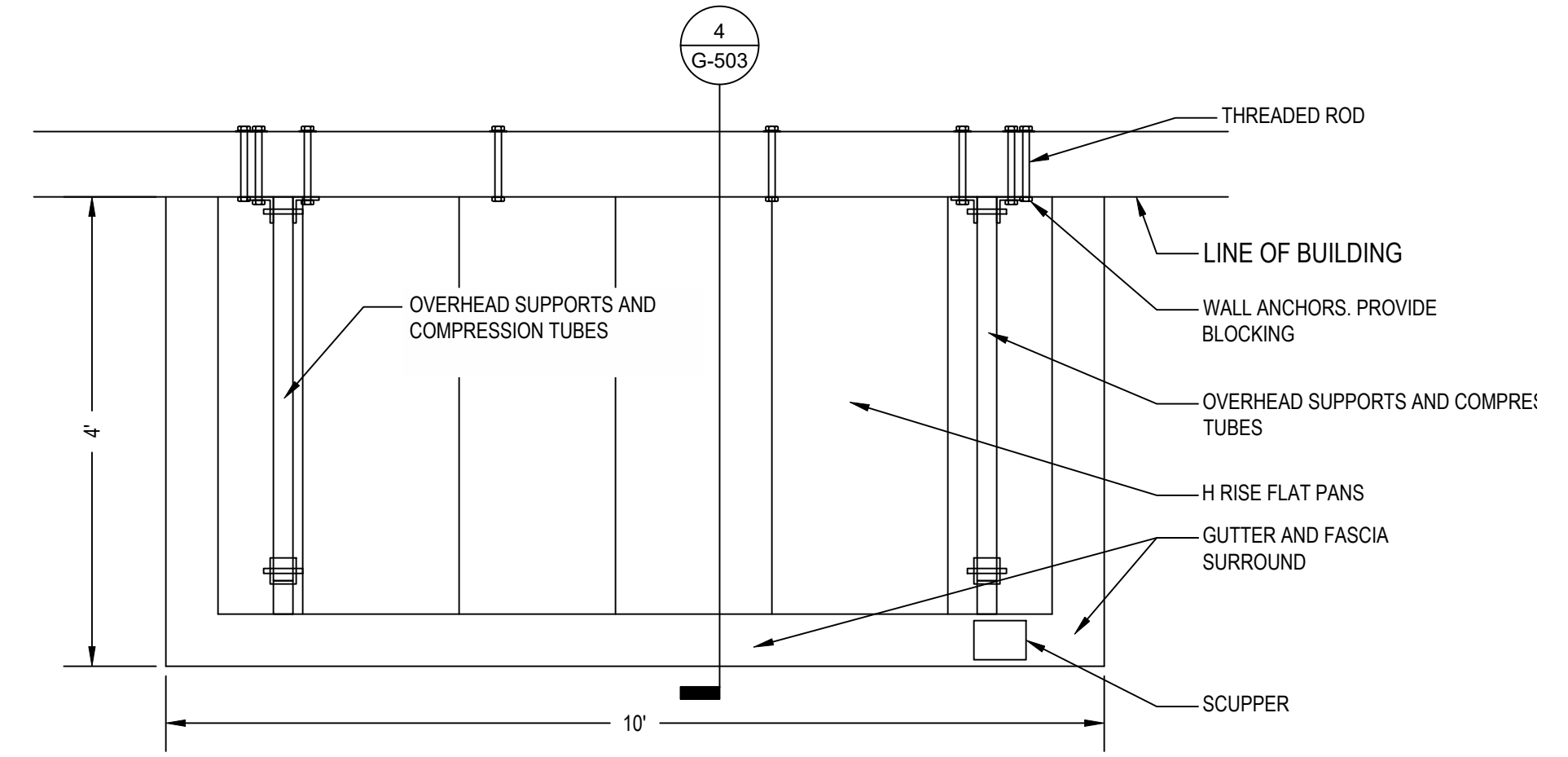
SHEET TITLE: GENERAL DETAILS
SHEET NUMBER: G-502
PROJECT#: 21-11110



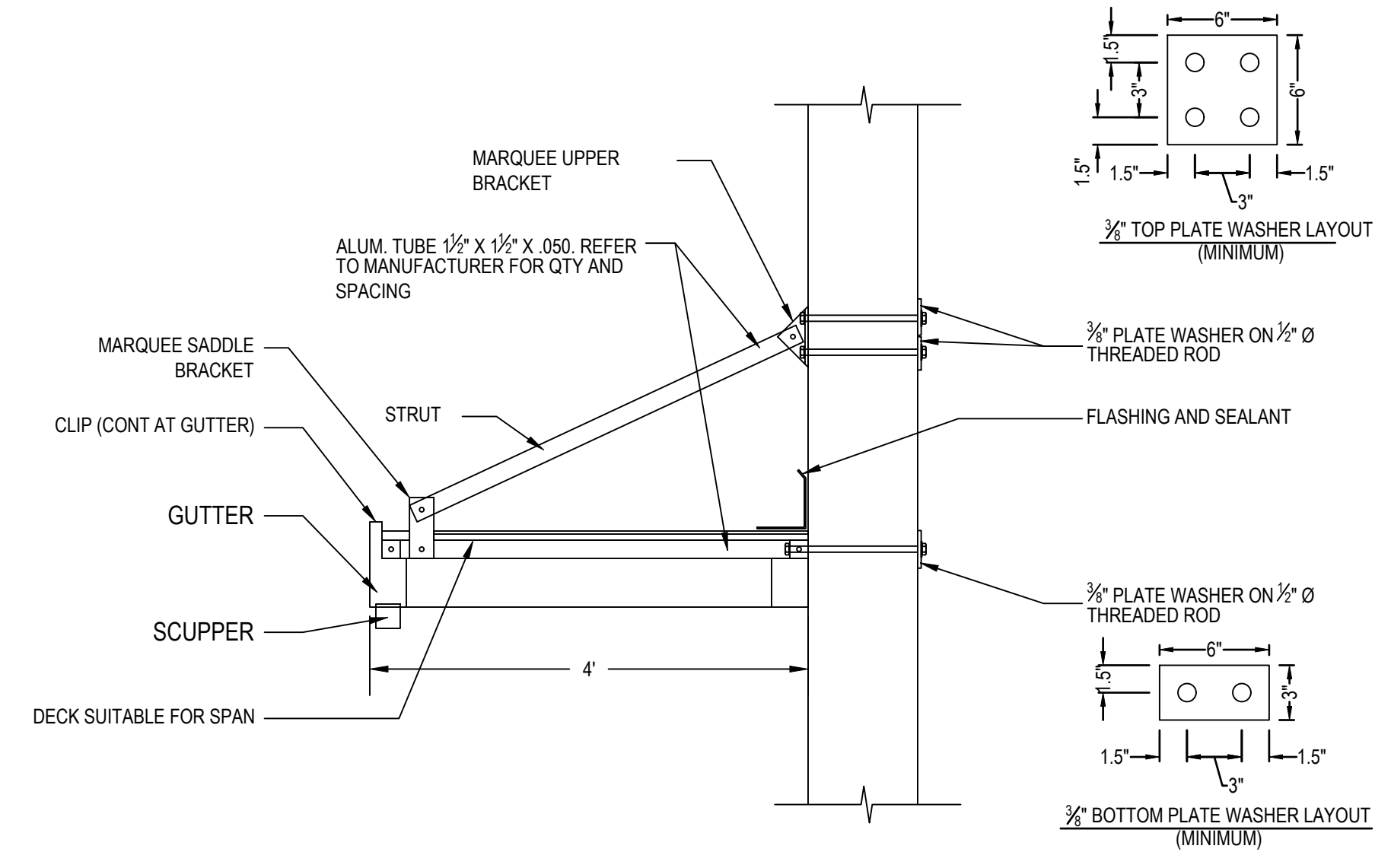
1 ROLL-UP DOOR DETAIL
N.T.S.



2 CONCRETE COUNTERTOP DETAIL
NTS

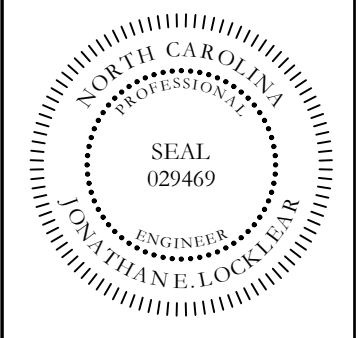
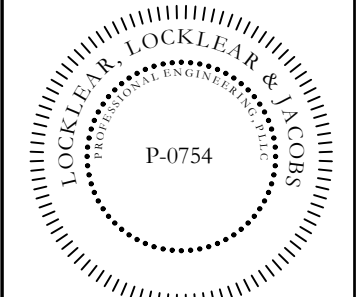
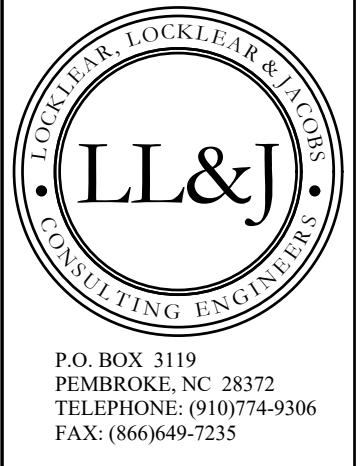


3 CANOPY PLAN
NTS



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	COLOR			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		FIRE RATING
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

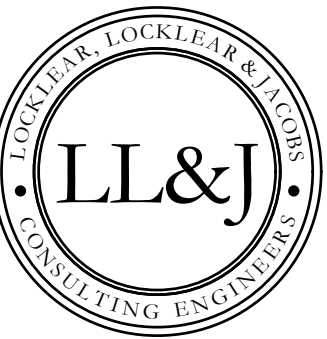
HW SET #1 OFFICE - STC 49	
1	OFFICE FUNCTION LOCKSET, BEST 45H7A-16H - 626
1	SURFACE-MOUNTED CLOSER, DORMA 8616 AF86 626
1	WALL STOP, ROCKWOOD
1	THRESHOLD, NGP 412
HW SET #2 TYPICAL EXTERIOR DOOR	
1.5 PR	HEAVY DUTY HINGES, HAGER BB1168 USP 4 1/2" X 4 1/2"
1	MEDIUM STILE EXIT DEVICE, DORMA 9300-08
1	SURFACE-MOUNTED CLOSER, DORMA 8616 AF86P 626
1 SET	WEATHERSTRIPPING, NGP 155V
1	DOOR SWEEP, NGP 101VA
1	THRESHOLD, NGP 426E

MATERIALS LEGEND

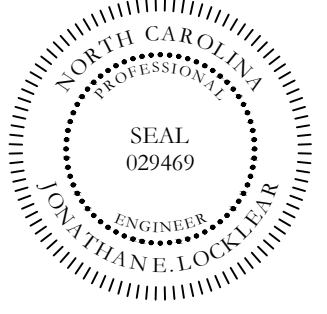
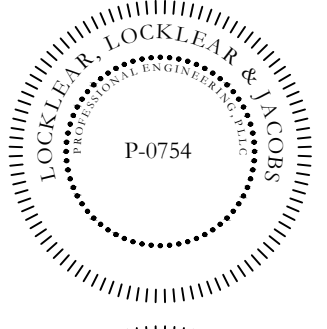
CEILING	
GWB	GYPSUM BOARD
FLOORING	
CONC	SEALED CONCRETE
LVT-1	ARMSTRONG, NATURAL CREATIONS COMMERCIAL COLLECTION, COLOR (TBD BY OWNER).
BASE	
RB-1	ARMSTRONG, 4" HIGH COVE CONTINUOUS ROLL, COLOR (TBD BY OWNER).
WALLS	
P-1	SHERWIN WILLIAMS - LOXON MASONRY TOPCOAT (OR SIMILAR), COLOR (TBD BY OWNER).
P-2	SHERWIN WILLIAMS - EMERALD DESIGNER EDITION INTERIOR LATEX PAINT (OR SIMILAR), COLOR TBD BY OWNER.
DOORS	
P-3	SHERWIN WILLIAMS - FLEXTEMP 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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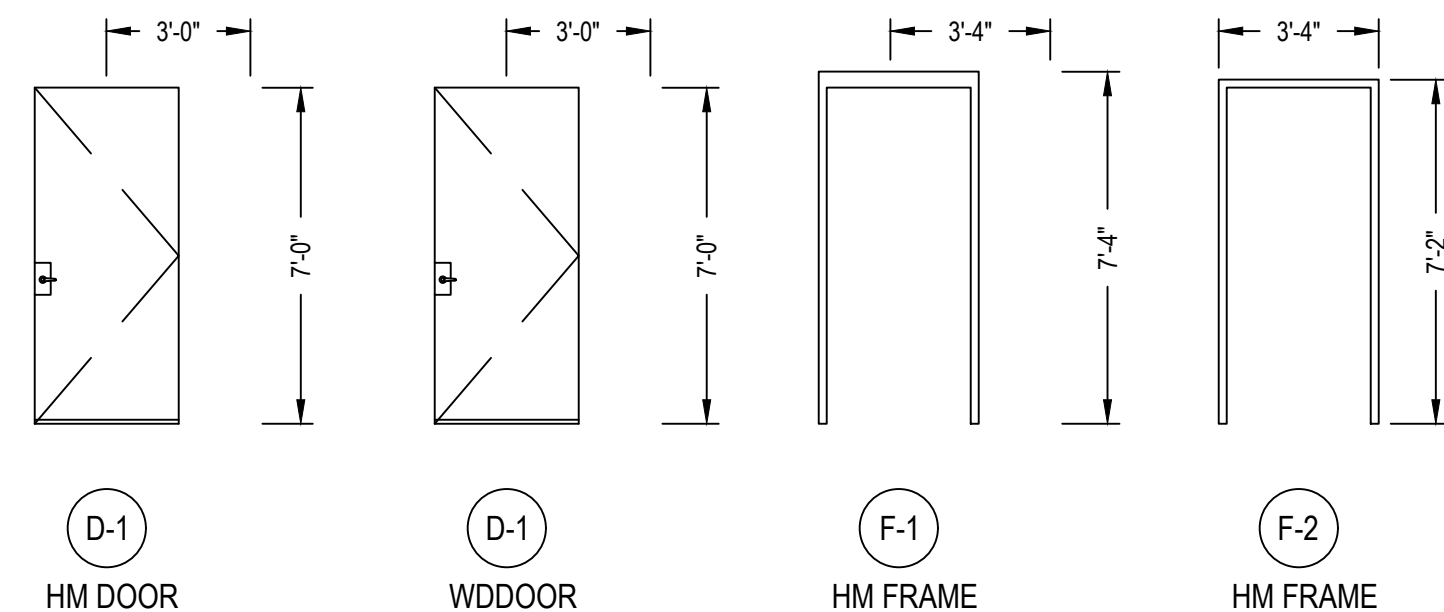
DATE: 12/2/2022
DRAWN BY: RDH
CHECKED BY: RL
SHEET TITLE

ROOM FINISH SCHEDULE

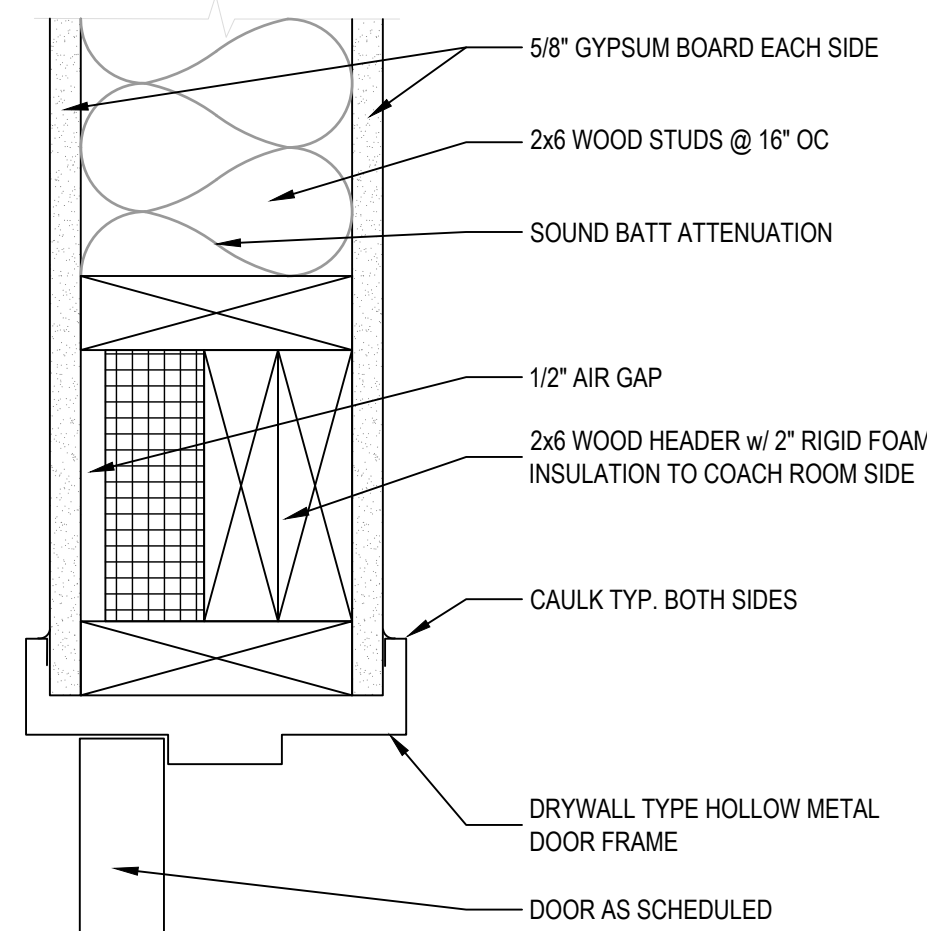
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G-601

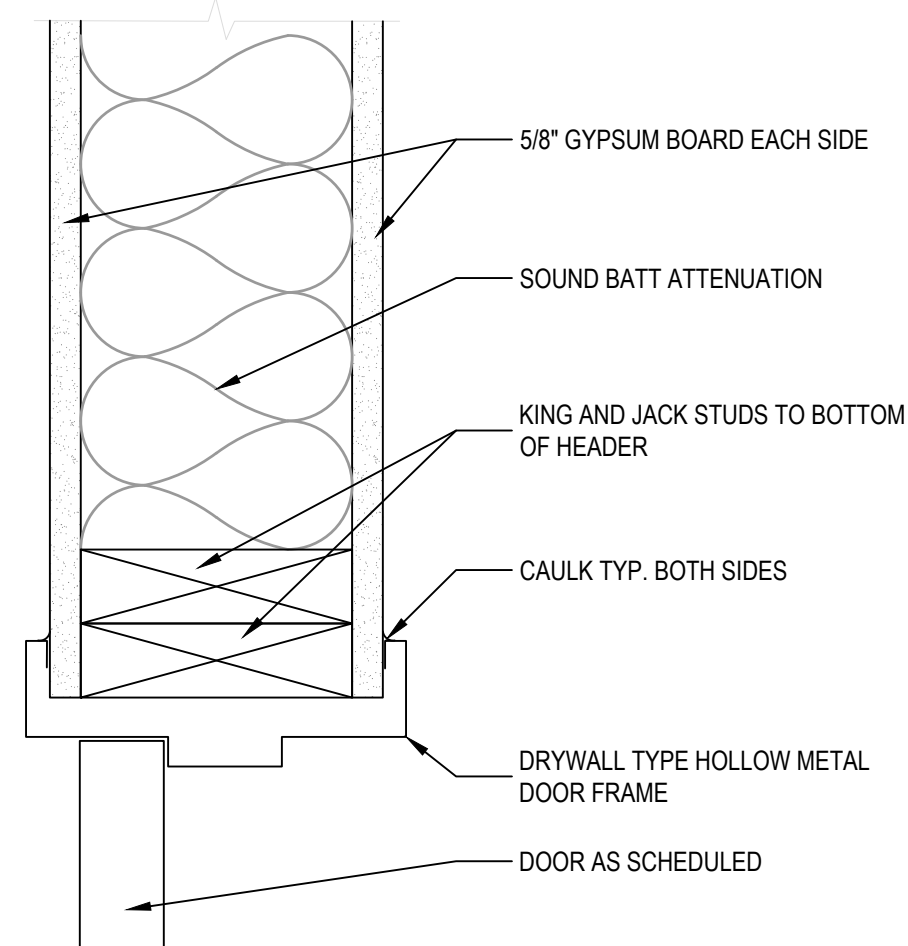
PROJECT# 21-11110



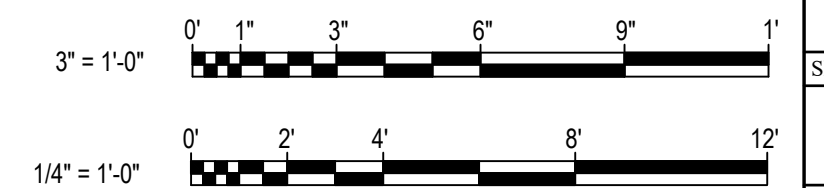
1 DOOR AND WINDOW ELEVATIONS
1/4" = 1'-0"

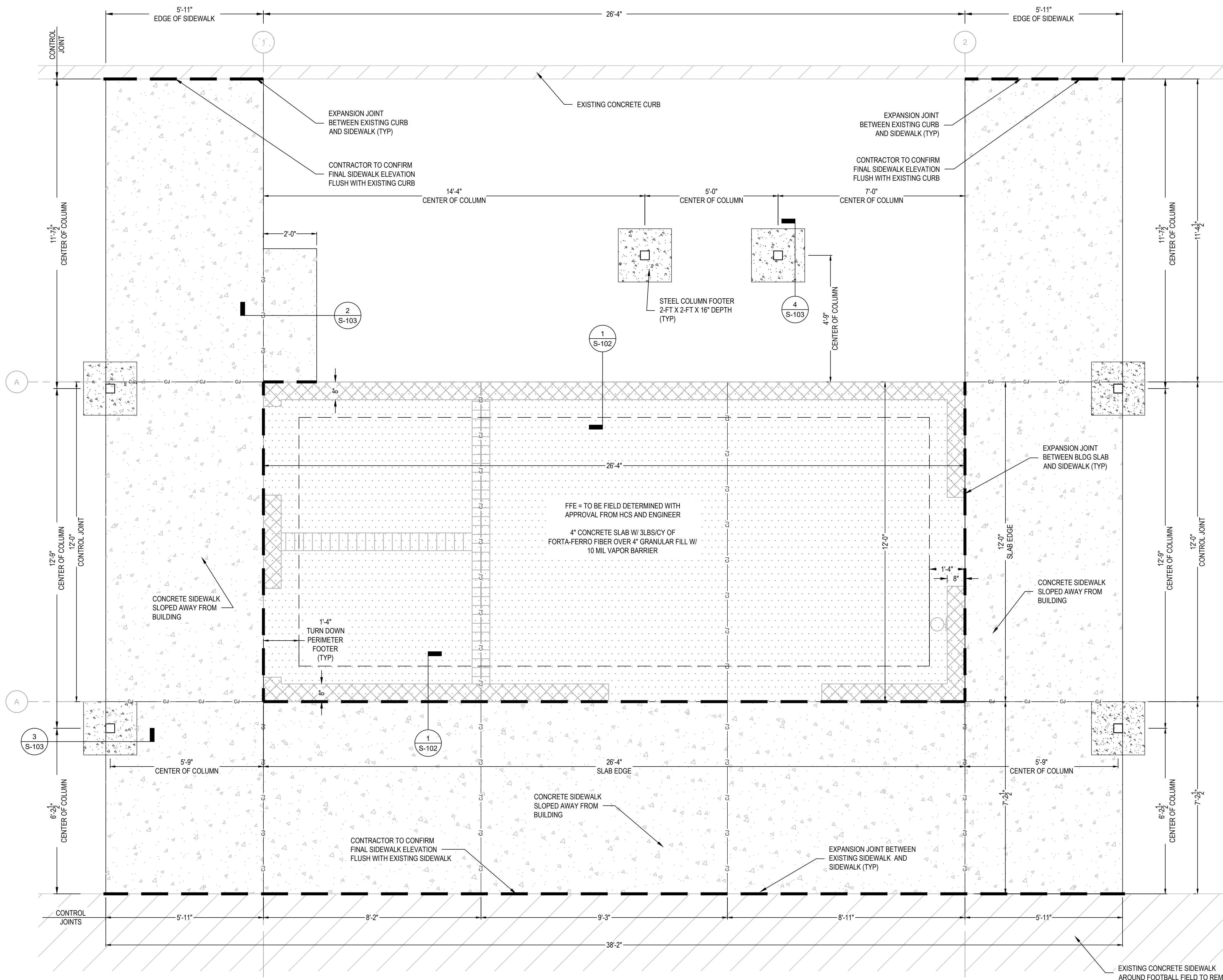


2 TYPICAL INTERIOR FRAME HEAD
3" = 1'-0"



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



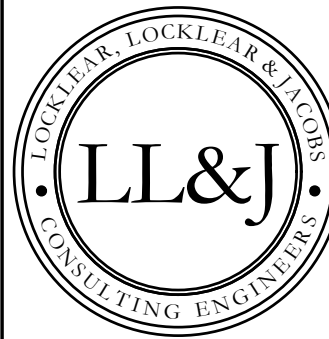


GRADING NOTES:
 1. FINISH FLOOR ELEVATION SHALL BE FIELD DETERMINED BASED ON EXISTING GRADES AND DESIRED STORMWATER RUNOFF PATTERNS.
 2. CONTRACTOR SHALL WORK WITH OWNER AND ENGINEER TO ESTABLISH FINAL SLOPES AND GRADING PATTERNS FOR STORMWATER RUNOFF AROUND THE BUILDING.

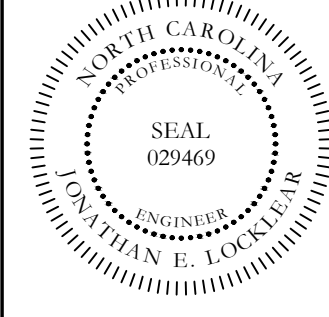
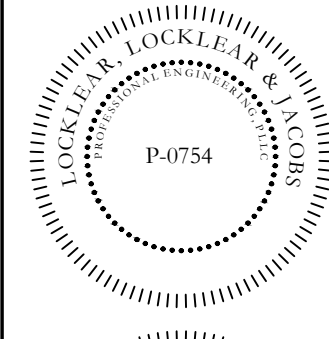
FILL NOTE:
 ALL FILL SHALL BE PLACED IN 6"-8" UN-COMPACTED LIFTS (MAXIMUM) AND COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY OBTAINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR). THE MOISTURE CONTENT OF FILL AT TIME OF PLACEMENT SHALL BE WITHIN +/- 3% OF THE OPTIMUM MOISTURE CONTENT DETERMINED 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. 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.
 2. ALL CONCRETE SHALL HAVE FORTA-FERRO FIBER AT 3LBS/YD MIXED AT THE PLANT PER MANUFACTURERS RECOMMENDATION.
 3. 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. CONTRACTOR TO CONFIRM FOOTERS ARE BELOW FROST LINE. THE MINIMUM DEPTH OF FOOTINGS BELOW THE UNDISTURBED GROUND SURFACE SHALL BE 12 INCHES.
 6. MASONRY UNITS SHALL BE INSTALLED WITH TYPE "M" OR "S" MORTAR.
 7. 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).
 8. 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.
 9. EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH AIR CONTENT TO BE BETWEEN 5 AND 7 PERCENT BY VOLUME.
 10. 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".
 11. 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:

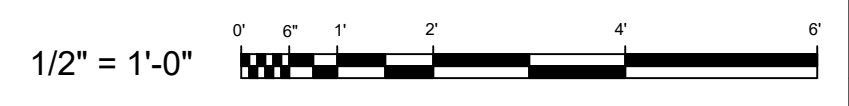
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DATE: 12/2/2022
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 CHECKED BY: JEL
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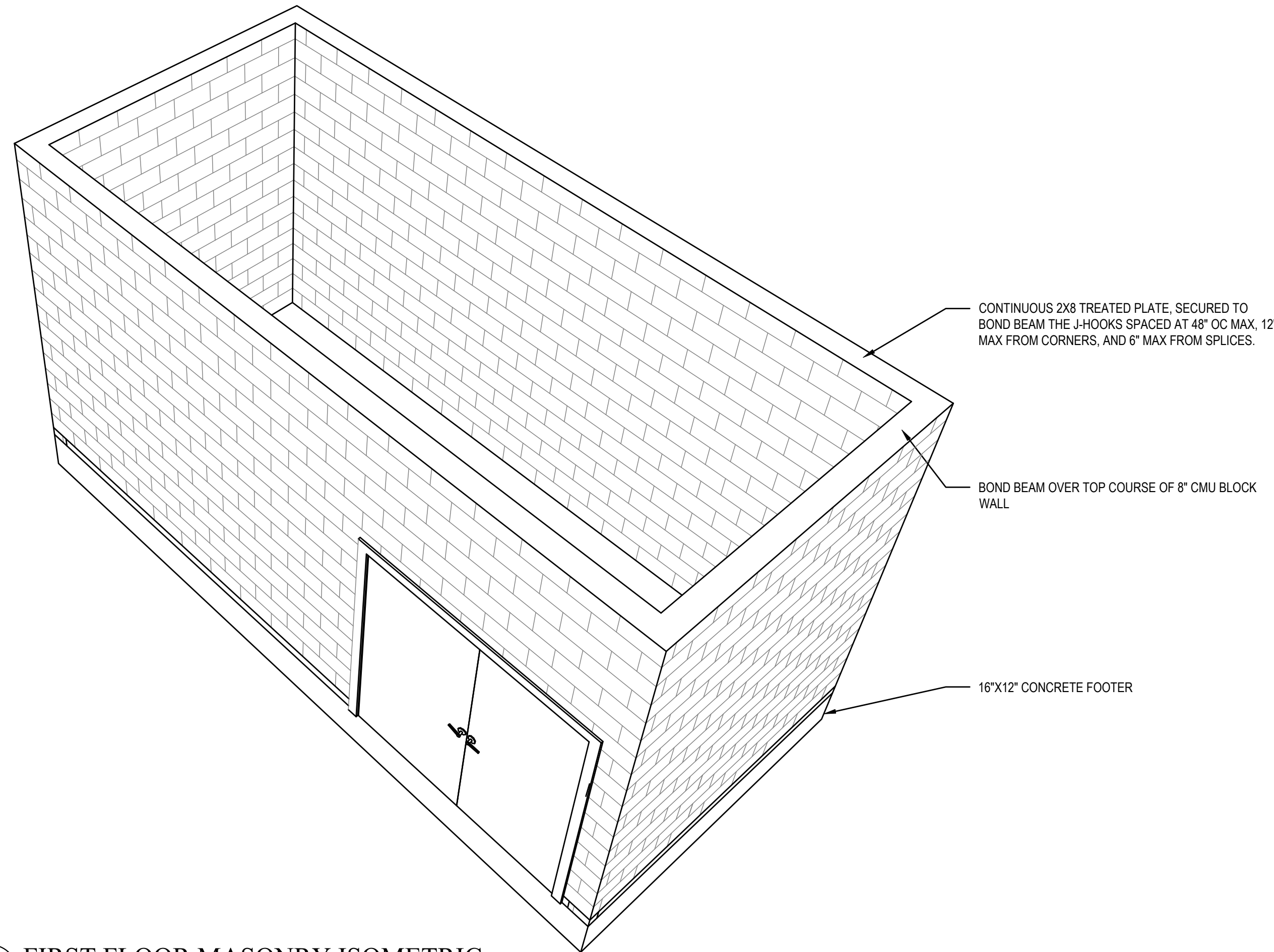


Know what's below.
 Call before you dig.

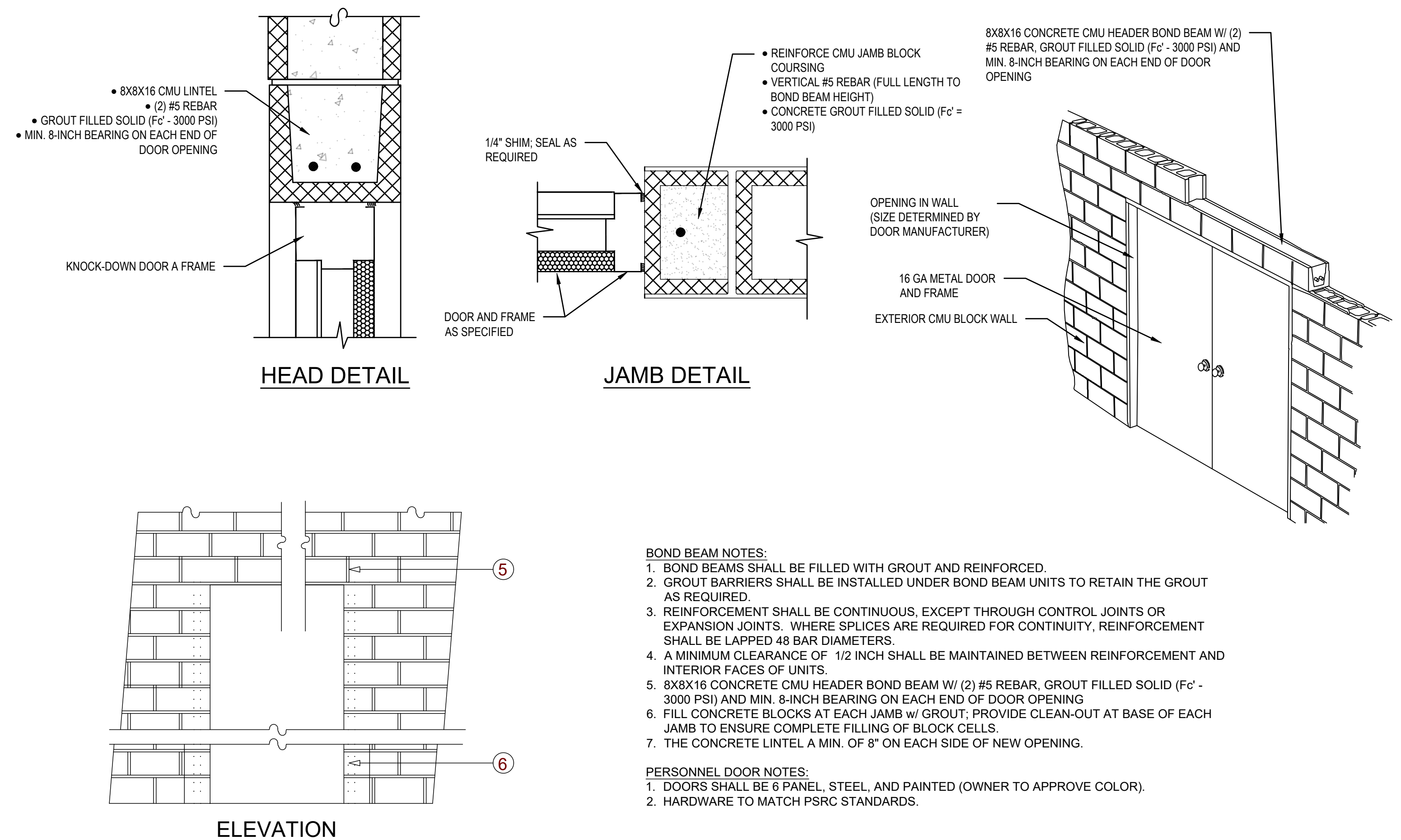
1 FOUNDATION PLAN
 SCALE: 1/2" = 1'-0"
 PLAN NORTH
 ACTUAL NORTH



FOUNDATION PLAN
 SHEET NUMBER
S-101
 PROJECT# 21-1110



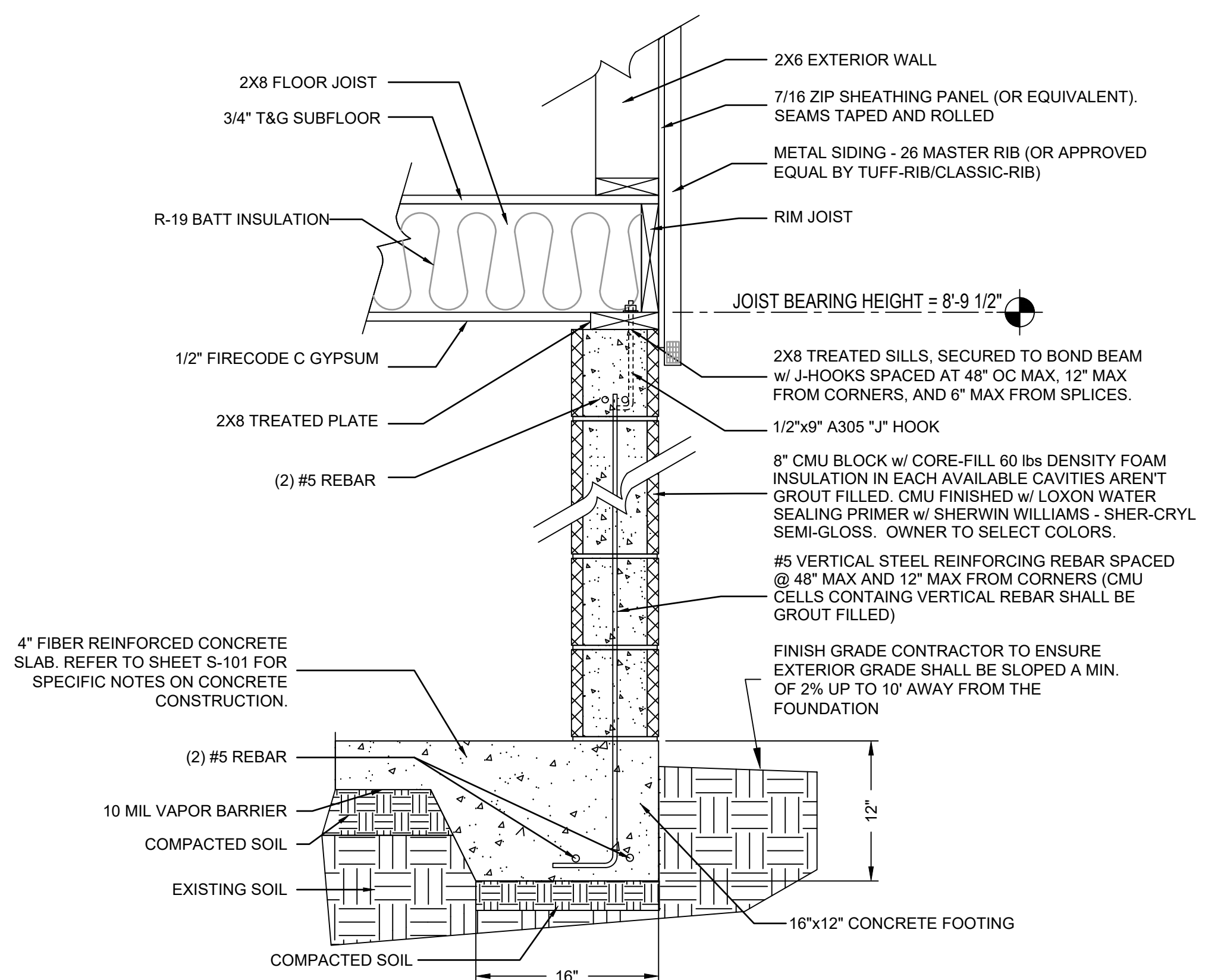
1 FIRST FLOOR MASONRY ISOMETRIC
N.T.S.



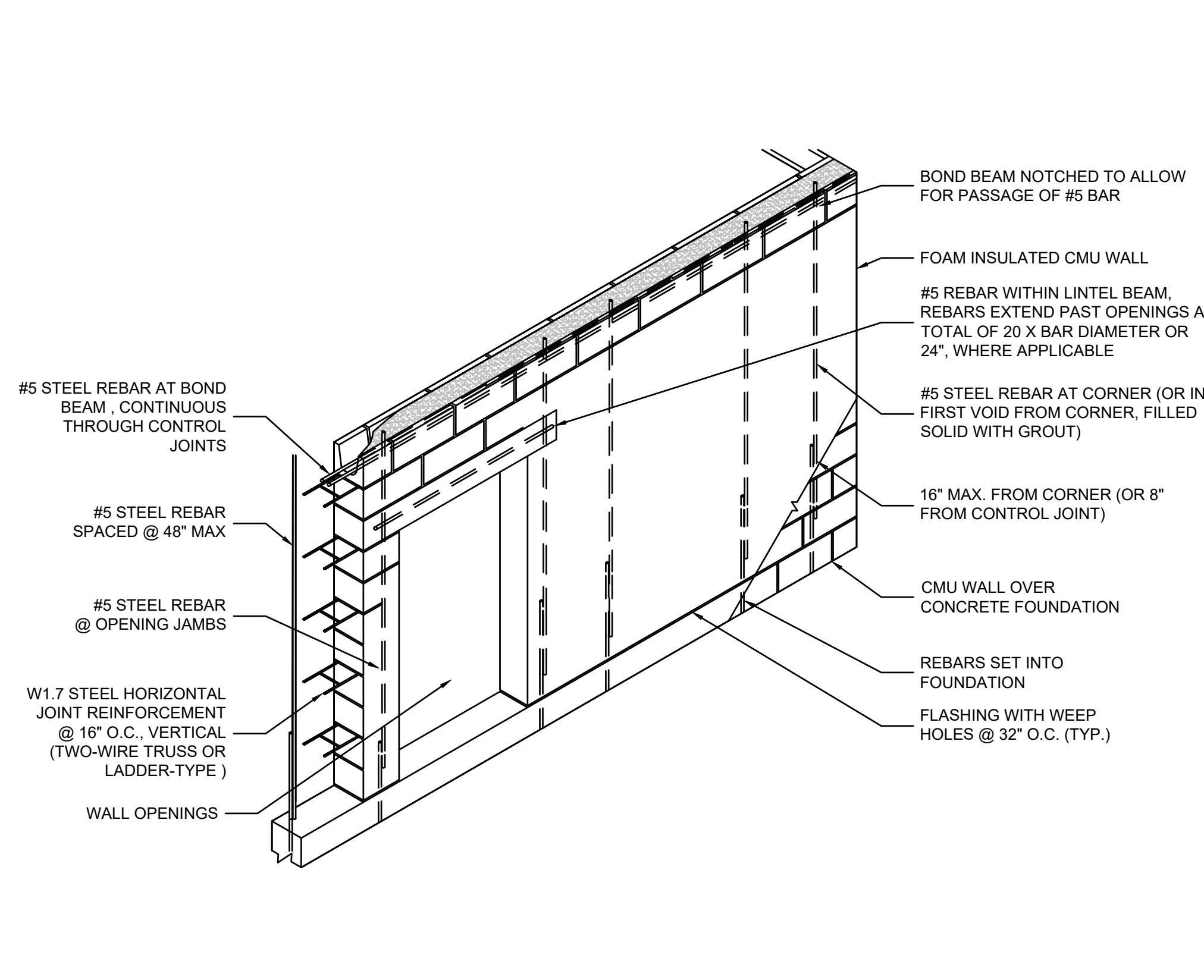
2 TYPICAL BOND BEAM OVER OPENING DETAILS
N.T.S.

- BOND BEAM NOTES:**
- BOND BEAMS SHALL BE FILLED WITH GROUT AND REINFORCED.
 - GROUT BARRIERS SHALL BE INSTALLED UNDER BOND BEAM UNITS TO RETAIN THE GROUT AS REQUIRED.
 - REINFORCEMENT SHALL BE CONTINUOUS, EXCEPT THROUGH CONTROL JOINTS OR EXPANSION JOINTS. WHERE SPLICES ARE REQUIRED FOR CONTINUITY, REINFORCEMENT SHALL BE LAPPED 48 BAR DIAMETERS.
 - A MINIMUM CLEARANCE OF 1/2 INCH SHALL BE MAINTAINED BETWEEN REINFORCEMENT AND INTERIOR FACES OF UNITS.
 - 8X8X16 CONCRETE CMU HEADER BOND BEAM W/ (2) #5 REBAR, GROUT FILLED SOLID (F'c = 3000 PSI) AND MIN. 8-INCH BEARING ON EACH END OF DOOR OPENING
 - FILL CONCRETE BLOCKS AT EACH JAMB W/ GROUT; PROVIDE CLEAN-OUT AT BASE OF EACH JAMB TO ENSURE COMPLETE FILLING OF BLOCK CELLS.
 - THE CONCRETE LINTEL A MIN. OF 8" ON EACH SIDE OF NEW OPENING.

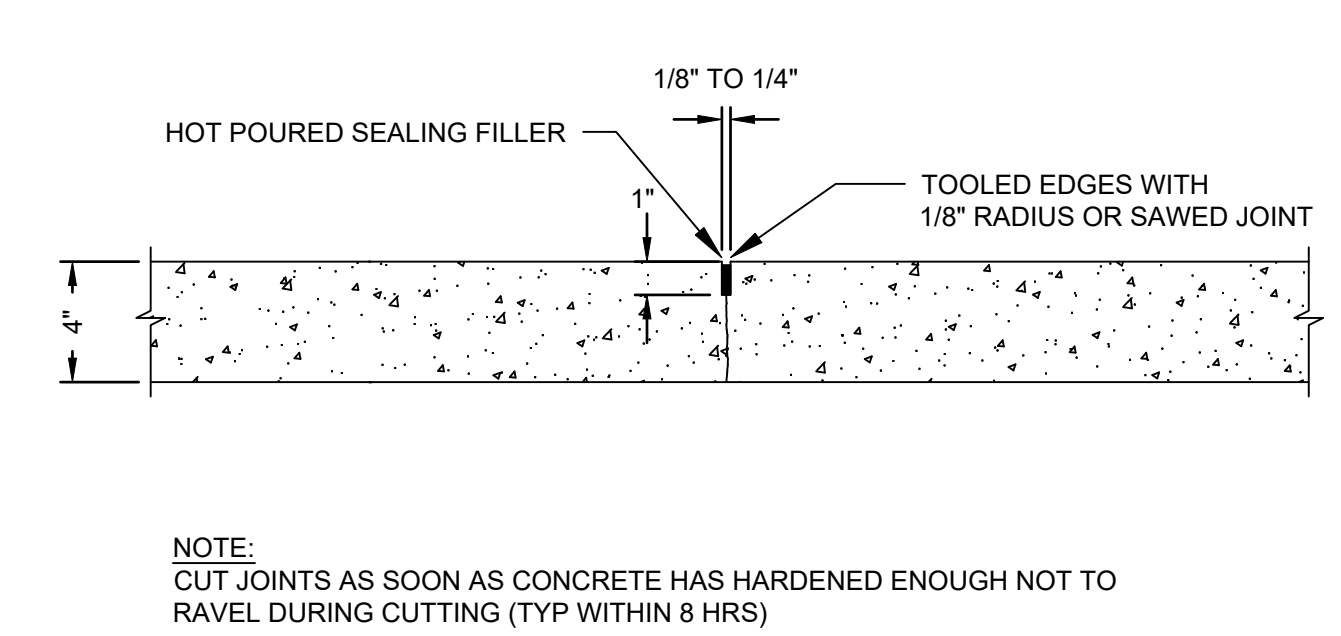
- PERSONNEL DOOR NOTES:**
- DOORS SHALL BE 6 PANEL, STEEL, AND PAINTED (OWNER TO APPROVE COLOR).
 - HARDWARE TO MATCH PSRC STANDARDS.



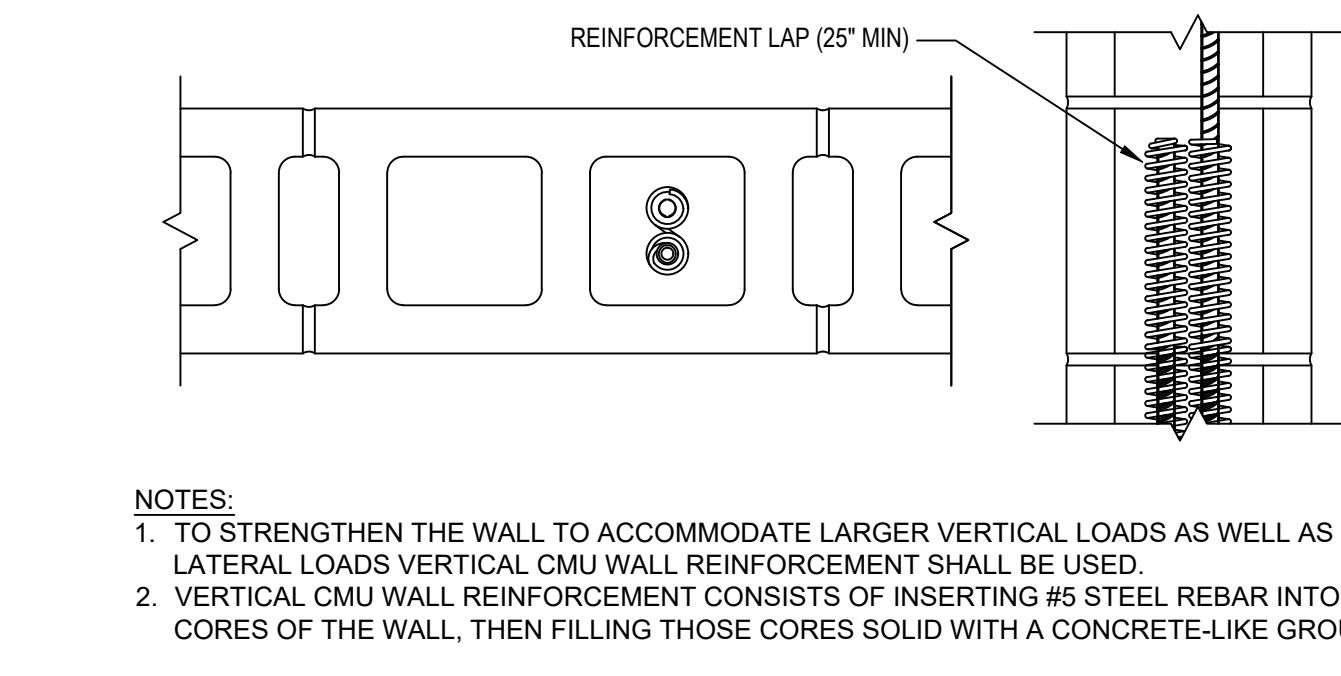
3 EXTERIOR WALL SECTION
N.T.S.



4 TYPICAL STEEL REINFORCEMENT IN CMU WALL
N.T.S.

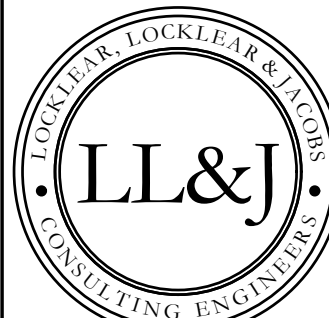


5 CONTROL JOINT DETAIL
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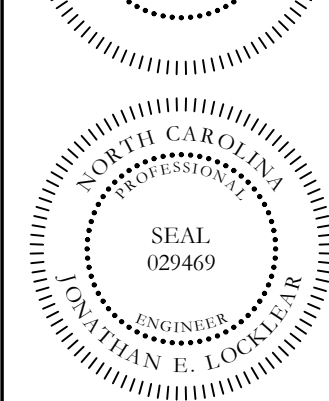
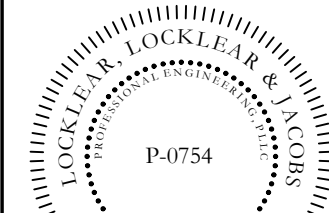


6 TYPICAL REBAR SPLICE DETAIL
N.T.S.

- NOTES:**
- TO STRENGTHEN THE WALL TO ACCOMMODATE LARGER VERTICAL LOADS AS WELL AS RESIST LATERAL LOADS VERTICAL CMU WALL REINFORCEMENT SHALL BE USED.
 - VERTICAL CMU WALL REINFORCEMENT CONSISTS OF INSERTING #5 STEEL REBAR INTO OPEN CORES OF THE WALL, THEN FILLING THOSE CORES SOLID WITH A CONCRETE-LIKE GROUT.



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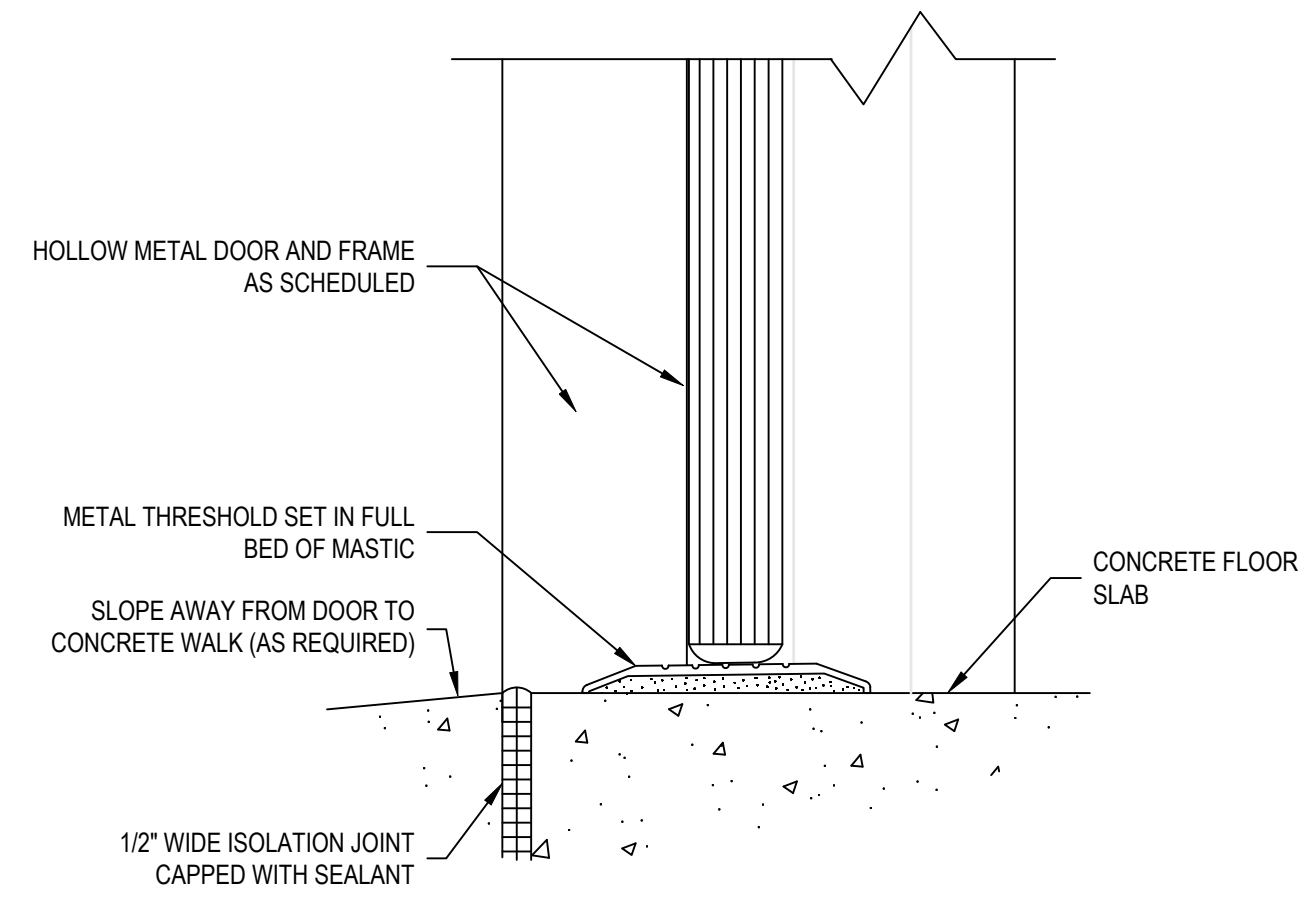
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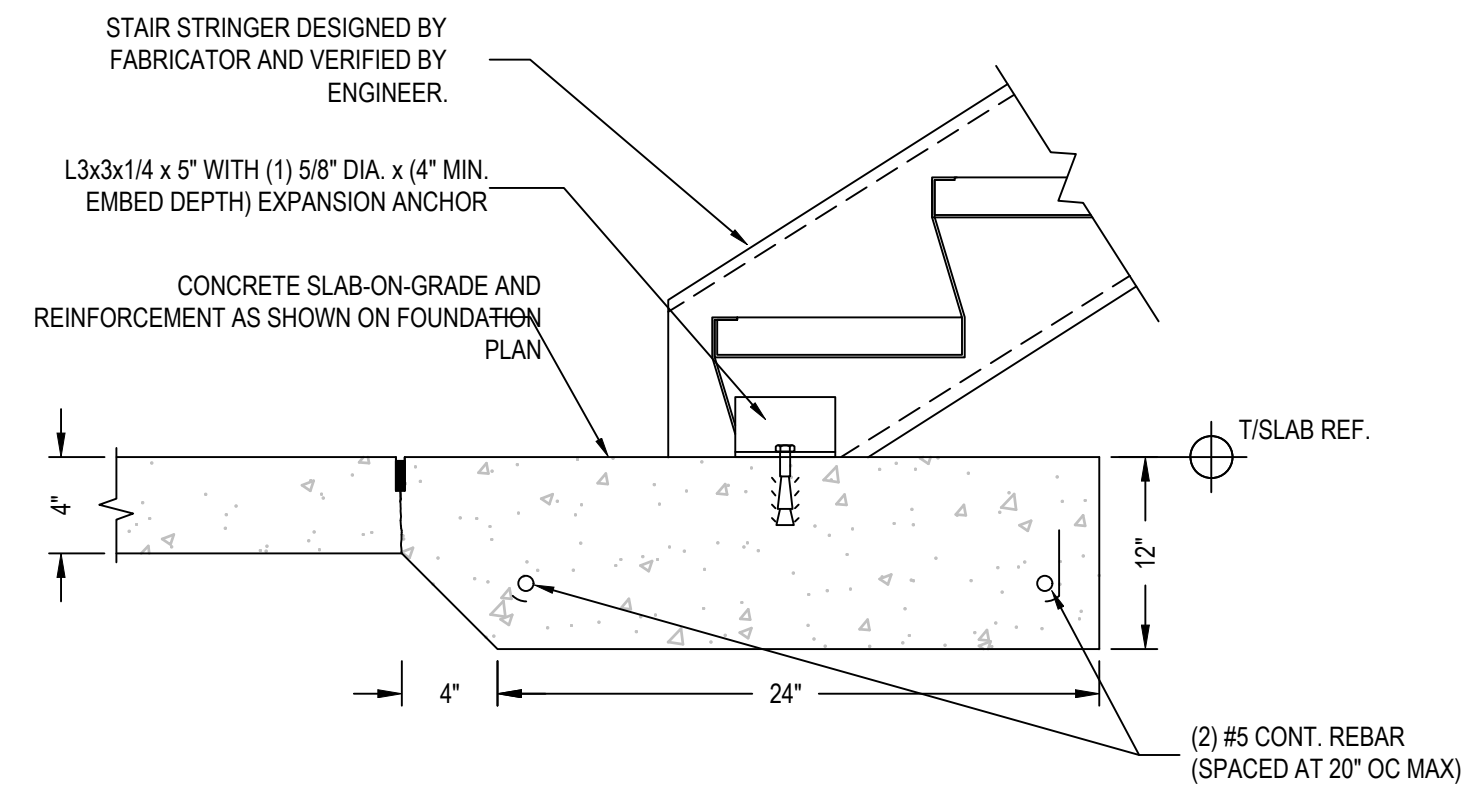
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SHEET TITLE
STRUCTURAL DETAILS

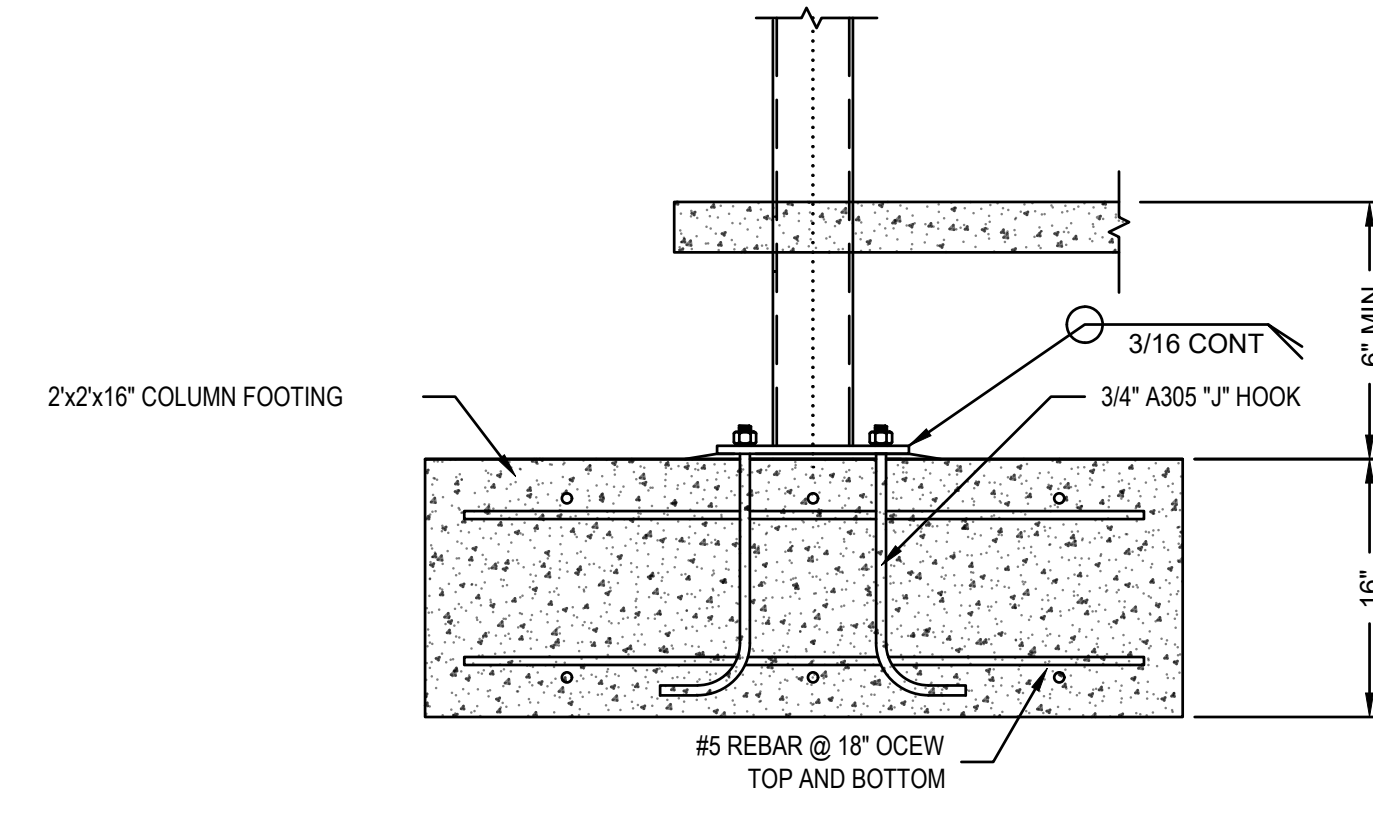
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PROJECT# 21-1110



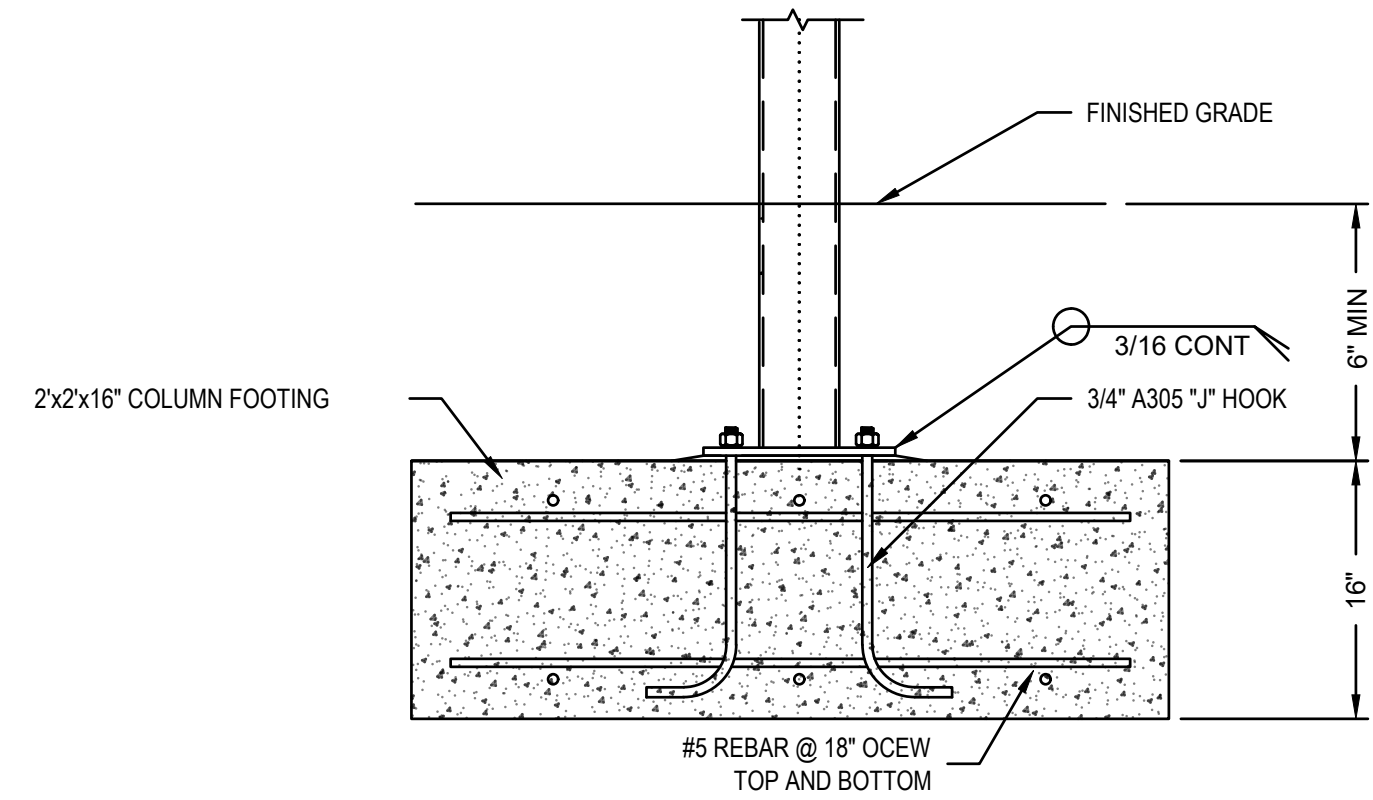
1 **SILL AT EXTERIOR DOOR**
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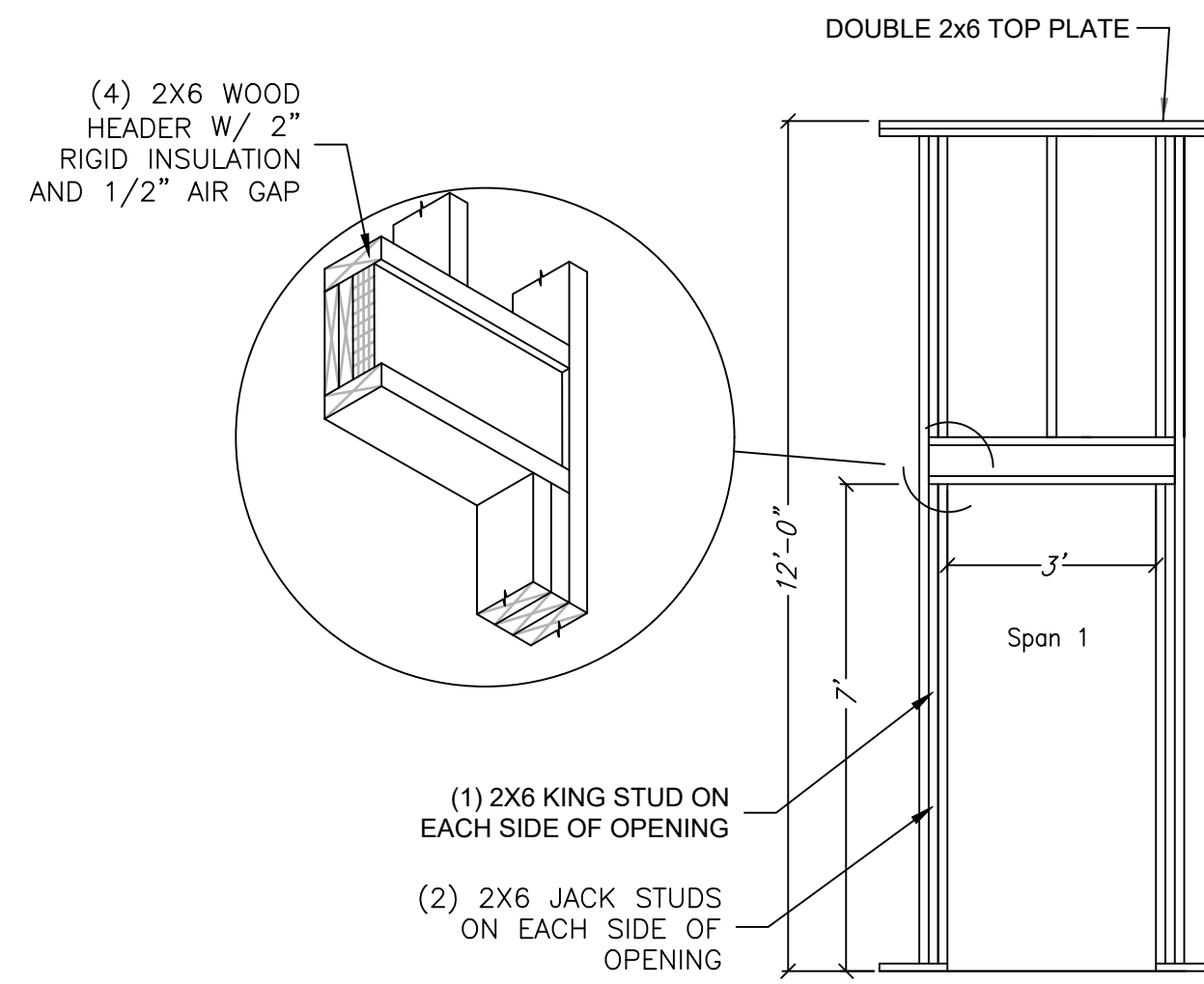
2 **THICKENED SLAB ON GRADE UNDER STEEL STAIRS DETAIL**
NTS



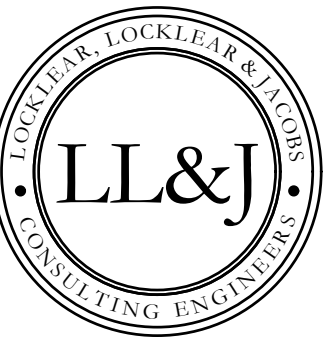
3 **STEEL COLUMN FOOTER DETAIL**
NTS



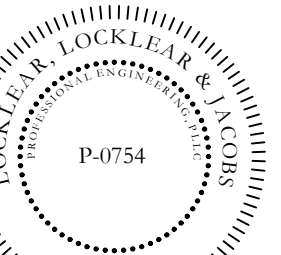
4 **STEEL COLUMN FOOTER DETAIL**
NTS



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



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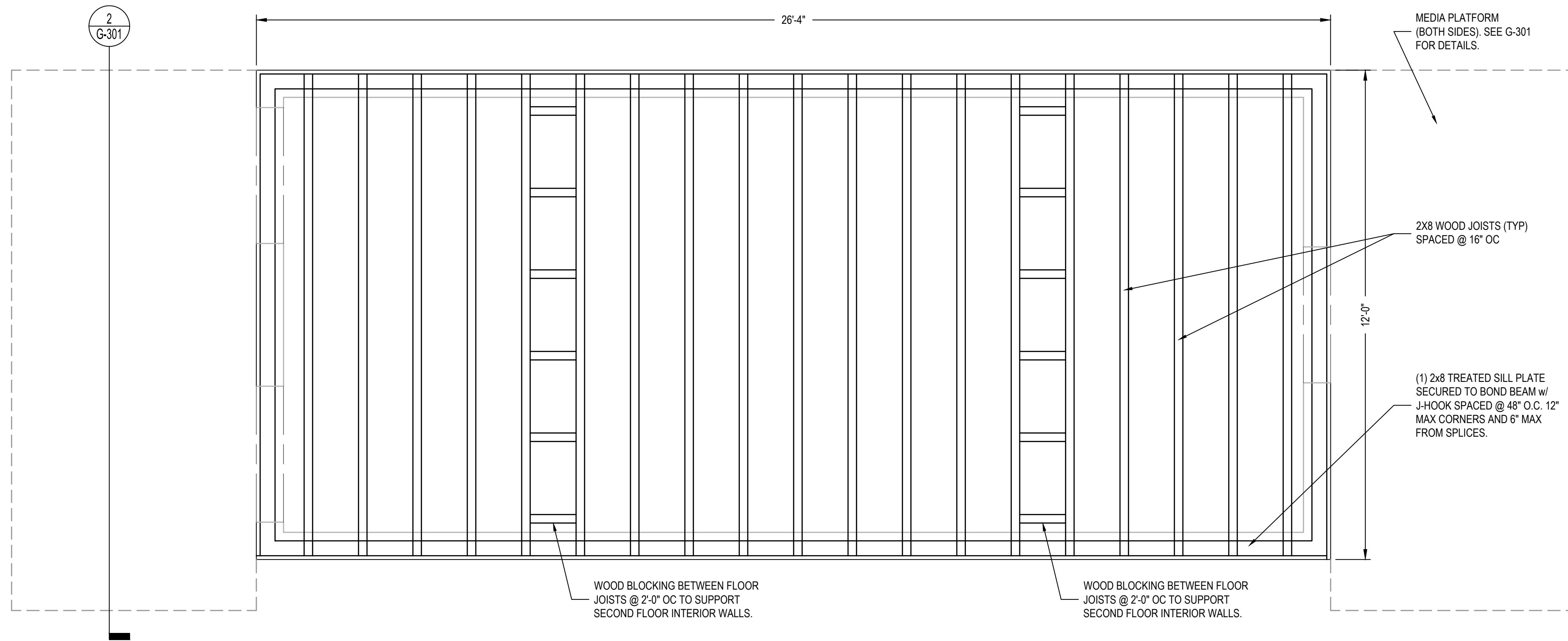
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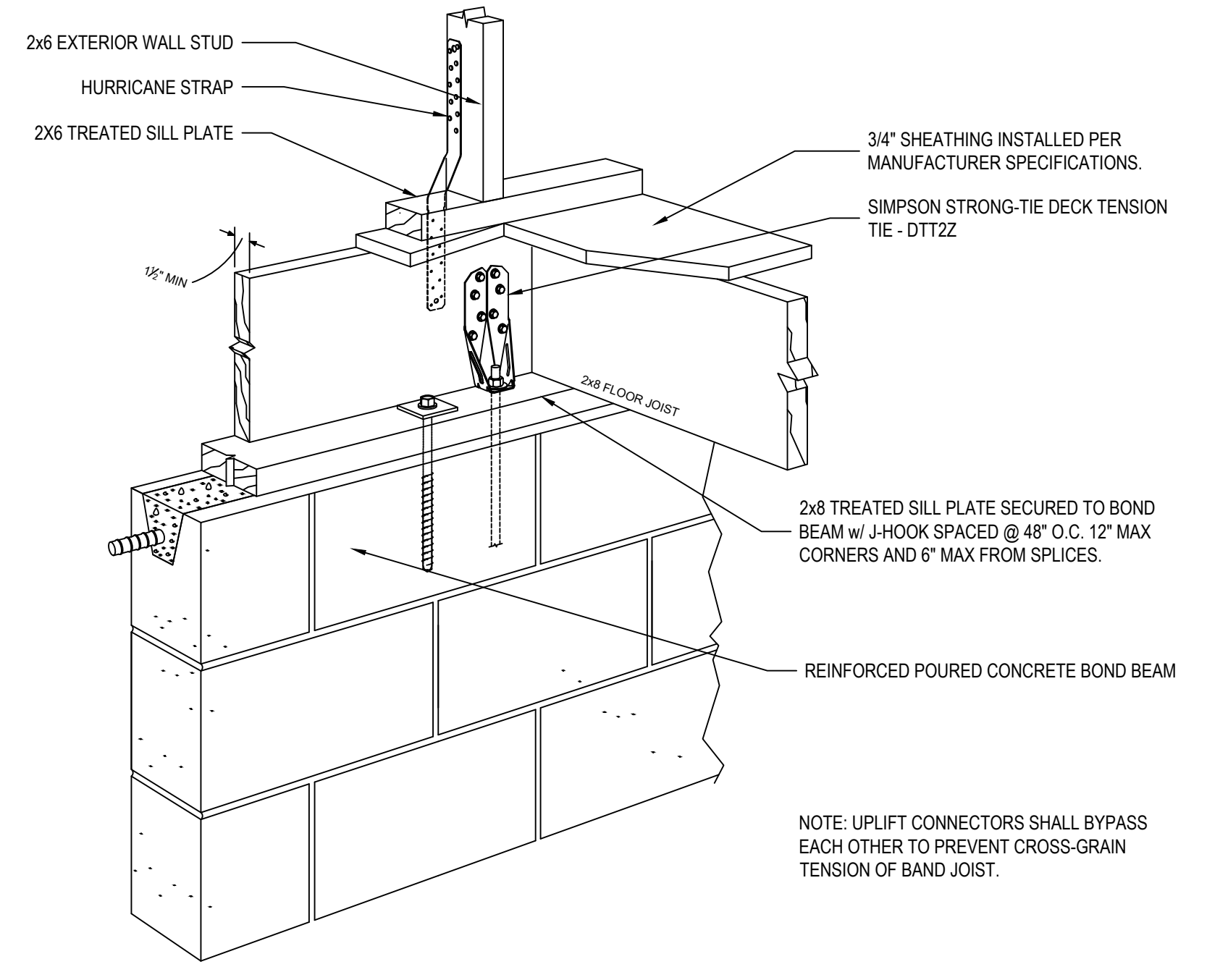
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PROJECT# 21-11110

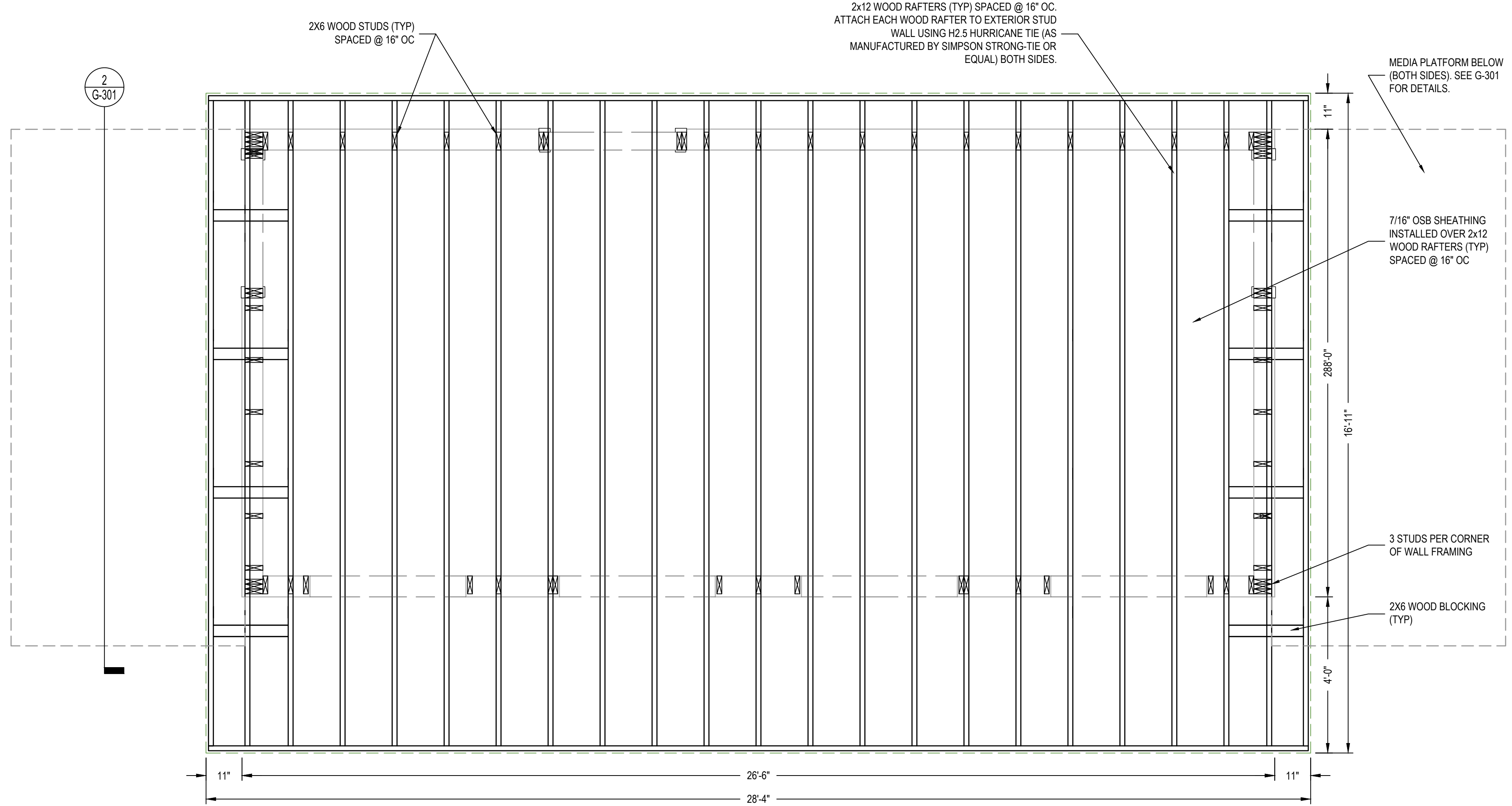
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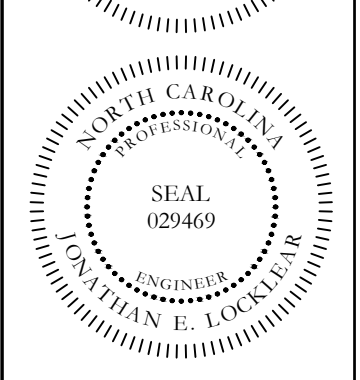
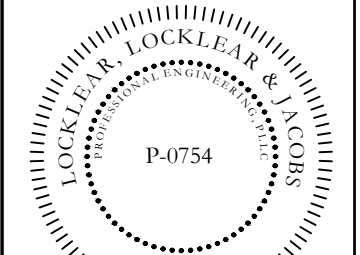
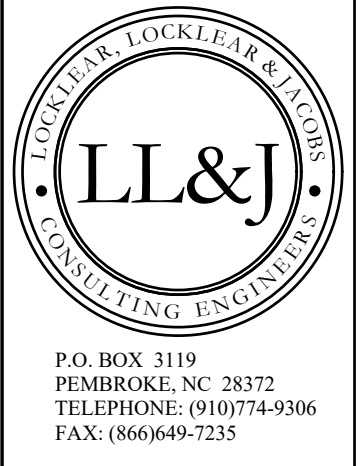
1 SECOND FLOOR FRAMING PLAN
 1/2" = 1'-0"
 PLAN NORTH ACTUAL NORTH



2 FLOOR FRAMING DETAIL
 N.T.S.



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



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FRAMING PLAN

SHEET NUMBER
S-104

PROJECT# 21-11110

D:\Dropbox (L.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

PLUMBING ABBREVIATIONS

A/E	ARCHITECT / ENGINEER	LA	LABORATORY AIR
AAV	AUTOMATIC AIR VENT	LAV	LAVATORY
AD	AREA DRAIN/ACCESS DOOR	LBS/HR	POUNDS PER HOUR
AFF	ABOVE FINISH FLOOR	LCW	LABORATORY COLD WATER
AFG	ABOVE FINISH GRADE	LHW	LABORATORY HOT WATER
AG	AIR GAP	LNG	LIQUID NATURAL GAS
AP	ACCESS PANEL	LOX	LIQUID OXYGEN
AS	AUTOMATIC SPRINKLER	LPG	LIQUEFIED PROPANE GAS
ASD	ADJUSTABLE SPEED DRIVES	LV	LABORATORY VACUUM
ASD	AUTOMATIC SPRINKLER DRAIN	LW	LOW WATER
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING ENGINEERS	M	METER
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	MA	MEDICAL AIR
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	MAV	MANUAL AIR VENT
ASR	AUTOMATIC SPRINKLER RISER	MBH	1000 BTUH
AV	ACID VENT	MED	MEDICAL
AW	ACID WASTE	MH	MANHOLE
		MS	MOP SINK
		MV	MEDICAL VACUUM
BFP	BACKFLOW PREVENTER	N2	NITROGEN
BFF	BELOW FINISH FLOOR	N2O	NITROUS OXIDE
BFV	BUTTERFLY VALVE	NC	NORMALLY CLOSED
BHP	BRAKE HORSEPOWER	NG	NATURAL GAS
BSP	BLACK STEEL PIPE	NIC	NOT IN CONTRACT
BT	BATHTUB	NO	NORMALLY OPEN
BV	BALL VALVE	NOM	NOMINAL
		NPW	NON POTABLE WATER
		NTS	NOT TO SCALE
C	CELSIUS	O2	OXYGEN
CA	COMPRESSED AIR	OC	ON CENTER
CFM	CUBIC FEET PER MINUTE	OD	OUTSIDE DIAMETER
CGA	COMPRESSED GAS ASSOCIATION	OFD	OVERFLOW DRAIN
CHWR	CHILLED WATER RETURN	OR	OPERATING ROOM
CHWS	CHILLED WATER SUPPLY	OVFL	OVERFLOW
CO	CLEANOUT		
CS	CLINICAL SINK	PA	PASCAL
CV	CONTROL VALVE	PD	PRESSURE DROP OR DIFFERENCE
CWR	CONDENSER WATER RETURN	PDI	PLUMBING AND DRAINAGE INSTALL
CWS	CONDENSER WATER SUPPLY	PG	PRESSURE GAUGE
DCW	DOMESTIC COLD WATER	PP	PLUMBING PUMP
DF	DRINKING FOUNTAIN	PPM	PARTS PER MILLION
DFU	DRAINAGE FIXTURE UNITS	PRS	PRESSURE REDUCING STATION
DHW	DOMESTIC HOT WATER	PRV	PRESSURE REDUCING VALVE
DHWR	DOMESTIC HOT WATER RETURN	PSI	POUNDS PER SQUARE INCH
DHWS	DOMESTIC HOT WATER SUPPLY	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
DI	DEIONIZED WATER	PSIG	POUNDS PER SQUARE INCH GAUGE
DN	DOWN	PTRV	PRESSURE TEMPERATURE RELIEF VALVE
DOE	DEPARTMENT OF ENERGY	PW	POTABLE WATER
DS	DOWNSPOUT	RD	ROOF DRAIN
DW	DISHWASHER	RL	ROOF DRAIN LEADER
DWG	DRAWING	RL	ROOF LEADER
DWH	DOMESTIC WATER HEATER	RP	RECIRCULATION PUMP
DWR	DRINKING WATER RETURN	RPZ	REDUCED PRESSURE ZONE BACKFLOW DEVICE
DWS	DRINKING WATER SUPPLY	RO	REVERSE OSMOSIS WATER
DWV	DRAIN WASTE VENT	RWL	RAIN WATER LEADER
EL	ELEVATION	SA	SHOCK ARRESTOR
EPA	ENVIRONMENTAL PROTECTION AGENCY	SC	SWING CHECK VALVE
EPACT	ENERGY POLICY ACT	SS	SANITARY SEWER
ESC	ESCUTCHEON	SCW	SOFTENED COLD WATER
ESH	EMERGENCY SHOWER	SDMH	STORM DRAIN MANHOLE
ET	EXPANSION TANK	SNK	SINK
EWH	ELECTRIC WATER HEATER	SMH	SANITARY MANHOLE
EWS	EYE WASH STATION	SP	SUMP PUMP
EWS/SH	EYE WASH/DRENCH SHOWER	SPR	SPRINKLER LINE
EX	EXISTING	SQFT/SF	SQUARE FEET
		SST	STAINLESS STEEL
F	FAHRENHEIT	ST	STORAGE TANK
FCO	FLOOR CLEANOUT	SW	STORM WATER
FCW	FILTERED COLD WATER	TCV	TEMPERATURE CONTROL VALVE
FD	FLOOR DRAIN	TD	TEMPERATURE DIFFERENCE
FDC	FIRE DEPARTMENT CONNECTION	TD	TRENCH DRAIN
FM	FLOW METER	TDH	TOTAL DYNAMIC HEAD
FS	FLOOR SINK	TEMP	TEMPERATURE
FS	FLOW SWITCH	TMV	THERMOSTATIC MIXING VALVE
FU	FIXTURE UNITS	TP	TRAP PRIMER
		TSTAT	THERMOSTAT
GAL	GALLON	TWR	TEMPERED WATER RETURN
GOD	GRADE CLEANOUTS	TWS	TEMPERED WATER SUPPLY
GPD	GALLONS PER DAY	TYP	TYPICAL
GPH	GALLONS PER HOUR	UR	URINAL
GPM	GALLONS PER MINUTE	V	VENT
GPR	GAS PRESSURE REGULATOR	VAC	VACUUM
GRS	GAS REGULATOR STATION	VB	VACUUM BREAKER
GT	GREASE TRAP	VCO	VACUUM CLEANER OUTLET
GV	GATE VALVE	VP	VACUUM PUMP
GVTR	GAS VENT THROUGH ROOF	VS	VENT STACK
GWH	GAS FIRED WATER HEATER	VSD	VARIABLE SPEED DRIVE
		VTR	VENT THROUGH ROOF
HB	HOSE BIBB	W	WASTE
HD	HUB DRAIN	WC	WATER CLOSET
HEX	HEAT EXCHANGER	WCO	WALL CLEANOUT
HHWR	HEATING HOT WATER RETURN	WG	WATER GAGE
HHWS	HEATING HOT WATER SUPPLY	WH	WALL HYDRANT
HP	HORSEPOWER	WH	WATER HEATER
HS	HAND SINK	WHA	WATER HAMMER ARRESTER
HST	HOT WATER STORAGE TANK	WL	WATER LINE
HWB	HOT WATER BOILER	WM	WATER METER
HWCP	HOT WATER CIRCULATING PUMP	WPD	WATER PRESSURE DROP
HWP	HOT WATER PUMP	WS	WASTE STACK
HYD	HYDRANT	WSFU	WATER SUPPLY FIXTURE UNITS
		W	WASTE
ID	INSIDE DIAMETER	WC	WATER CLOSET
IE	INVERT ELEVATION	WCO	WALL CLEANOUT
IMB	ICE MAKER BOX	WG	WATER GAGE
INV	INVERT	WH	WALL HYDRANT
IPC	INTERNATIONAL PLUMBING CODE	WH	WATER HEATER
IRW	IRRIGATION WATER	WHA	WATER HAMMER ARRESTER
IV	ISOLATION VALVE	WL	WATER LINE
IW	INDIRECT WASTE	WM	WATER METER
IWH	INSTANTANEOUS WATER HEATER	WPD	WATER PRESSURE DROP
IWR	INDUSTRIAL WATER RETURN	WS	WASTE STACK
IWS	INDUSTRIAL WATER SUPPLY	WSFU	WATER SUPPLY FIXTURE UNITS
		YCO	YARD CLEANOUT
KW	KILOWATT	YH	YARD HYDRANT
KWH	KILOWATT-HOUR	ZV	ZONE VALVE
LS	LITER PER SECOND		

PLUMBING LEGEND

SYMBOL	DESCRIPTION
	SANITARY WASTE
	STORM DRAIN
	STORM OVERFLOW DRAIN
	SANITARY VENT
	DOMESTIC COLD WATER (CW)
	DOMESTIC HOT WATER (H.W)
	DOMESTIC HOT WATER RETURN (HWR)
	GAS PIPE
	CAP
	DIRECTION OF SLOPE
	DIRECTION OF FLOW
	DRAIN (INDIRECT)
	RISE AND DROP IN PIPING
	CLEANOUT
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	CHECK VALVE
	UNION
	SHOCK ABSORBER (TYPE 'A')
	STRAINER W/ BLOW DOWN VALVE
	GAS COCK
	PRESSURE REDUCING VALVE
	PRESSURE RELIEF VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	GAUGE COCK
	PRESSURE GAUGE W/ GAUGE COCK
	THERMOMETER
	WALL HYDRANT
	HOSE BIBB
	SOLENOID VALVE
	FLOW SWITCH
	FLOOR DRAIN
	ROOF DRAIN
	COMPRESSED AIR
	FIRE LINE
	FIRE SPRINKLER PIPING
	WET FIRE SPRINKLER VALVE ASSEMBLY
	OS&Y GATE VALVE
	OWNER FURNISHED, CONTRACTOR INSTALLED
	BRANCH TO CONNECTION
	FLOW LINE ELEVATION
	STORM PIPING UNDERSLAB
	FIRE SPRINKLER RISER

NOTE: NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED

PLUMBING NOTES

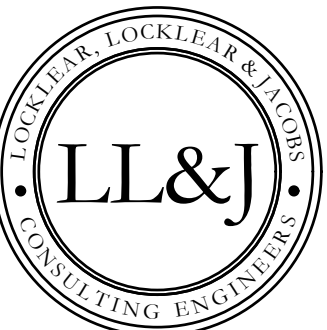
- ALL SITE UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. CONTRACTOR VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK. DRAWINGS AND RISERS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL REQUIRED FITTINGS AND OFFSETS REQUIRED FOR ACTUAL INSTALLATION. PROVIDE OFFSETS IN PIPING AS NEEDED TO AVOID CONFLICTS WITH OTHER TRADES.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NC STATE PLUMBING CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.
- THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS AND DRAWINGS FOR WORK BY OTHERS. LOCATION OF UTILITIES (WASTER AND WATER LINES, MANHOLES ETC) THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE THE FINAL CONNECTION AS REQUIRED. COORDINATE ALL WORK WITH OTHER TRADES.
- ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
- ALL FIXTURES ARE TO BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NC PLUMBING CODE AS WELL AS ALL LOCAL AND OTHER APPLICABLE CODES.
- WATER SUPPLY LINES ARE TO BE TYPE L COPPER. ALL DRAIN AND VENT PIPING MATERIAL TO BE SCH 40 PVC. VENTS WILL BE COMBINED BEFORE PENETRATING ROOF TO REDUCE ROOF PENETRATIONS.
- SHUT OFF VALVES SHALL BE PROVIDED ON HOT AND COLD WATER LINES. ALL FIXTURES SHALL BE COMPLETE AND INCLUDE ALL STOPS, SUPPLIES, FAUCETS, DRAINS, TRAPS, ESCUTCHEONS, ETC.
- HOT WATER LINES TO BE INSULATED FULL LENGTH WITH 1" INSULATION THAT MEETS 2018 NC ENERGY CODE.
- ADA COMPLIANT UNDER SINK PIPE COVERS SHALL BE INSTALLED ON ALL LAVS.
- THE ENTIRE WATER SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE. WATER LINES SHALL BE TESTED IN ACCORDANCE THE INDUSTRY STANDARDS AND DOMESTIC WATER SHALL BE STERILIZED IN COMPLIANCE WITH LOCAL STANDARDS.
- HOSE BIBS SHALL BE MOUNTED 1' - 6" ABOVE FINISHED FLOOR. HOSE BIBS SHALL BE PROVIDED WITH A NON-REMOVABLE VACUUM BREAKER.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK AND SHALL INSTALL FIRE RATED SLEEVES WHEREVER PENETRATIONS OF RATED WALLS OR FLOORS ARE MADE. ANNULAR SPACES BETWEEN SLEEVES AND PIPES SHALL BE SEALED AS REQUIRED BY LOCAL AUTHORITY. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR. FIRE STOP ALL PENETRATIONS OF FIRE RATED ASSEMBLIES AS NECESSARY TO MAINTAIN THE RATING OF WALL. REFER TO FLOOR PLAN DRAWINGS FOR ASSEMBLY RATINGS.
- ALL SOIL, WASTE, AND STORM PIPING SHALL BE INSTALLED BELOW THE FLOOR UNLESS NOTED OTHERWISE.
- PROVIDE CLEANOUTS AT THE BASE OF ALL SOIL, WASTE, VENT, AND STORM RISER OVER ONE STORY IN HEIGHT. PROVIDE CLEANOUTS AT EVERY 100 FT.
- ALL STORM AND OVERFLOW DRAIN LINES DISCHARGING ONTO SPLASH BLOCKS SHALL DO SO THROUGH DOWNSPOUT NOZZLES.
- PIPING PENETRATING A VAULT ENCLOSURE SHALL BE SLEEVED AND SEALED.
- PROVIDE ACCESS PANELS FOR VALVES LOCATED ABOVE INACCESSIBLE CEILINGS.
- ALL VENT-THRU-ROOF (VTR) TERMINATIONS SHALL BE COLOR-KEYED TO THE MATCH THE ADJACENT ROOFING COLOR. VENTS TO BE INSTALLED WITH DOUBLE FLASHING TO ALLOW MOVEMENT.
- ALL HOLES AND NOTCHES FOR HORIZONTAL PLUMBING PIPES TO BE OVERSIZED TO COMPENSATE FOR SHRINKAGE.
- ALL WATER HAMMER ARRESTORS MAY NOT BE SHOWN ON DRAWINGS. CONTRACTOR IS REQUIRED TO SIZE, PROVIDE AND LOCATE ALL WATER HAMMER ARRESTORS IN ACCORDANCE WITH PDI WH 201. APPROPRIATELY-SIZED ACCESS DOORS OR REMOVABLE PANELS SHALL BE PROVIDED WHERE WATER HAMMER ARRESTORS ARE CONCEALED. WATER HAMMER SHOCK ARRESTORS SHALL BE INSTALLED FOR FIXTURES WITH QUICK CLOSING VALVES. WATER HAMMER SHOCK ARRESTOR SHALL BE A HYDROTROL 5020 AS MANUFACTURED BY JAY R SMITH OR EQUAL BY SIOUX CHIEF / WATTS.
- PIPING INSTALLED IN PLENUM SPACES SHALL MEET ASTM E-84, ASTM E-136 AND UL 723 STANDARDS FOR FLAME SPREAD AND SMOKE GENERATION. COORDINATE PLENUM LOCATIONS WITH MECHANICAL CONTRACTOR.
- ALL FLOOR AND HUB DRAINS SHALL BE PROVIDED WITH INLINE TRAP SEAL DEVICES (IE TRAP GUARD/SEAL).
- PROVIDE DRAIN VALVES AT ALL LOW POINTS IN ALL WATER PIPING SYSTEMS.
- ALL WATER, VENT AND GAS PIPING SHALL BE INSTALLED ABOVE THE CEILING UNLESS NOTED OTHERWISE.
- SLIP JOINTS SHALL NOT BE USED FOR DRAIN CONNECTIONS IN CONCEALED LOCATIONS, USE SOLDERED OR SCREWED JOINTS ONLY.
- DIELECTRIC CONNECTIONS SHALL BE USED BETWEEN FERROUS AND NON-FERROUS PIPING.
- ALL SUSPENDED MATERIALS AND EQUIPMENT SHALL BE INDIVIDUALLY SUPPORTED FROM THE BUILDING STRUCTURE. DO NOT SUSPEND ITEMS FROM THE CEILING OR ITS SUPPORT SYSTEM.
- WATER AND WASTE PIPES SHALL BE A MINIMUM OF 5 FT APART. WHEN PIPES CROSS OR ARE CLOSER THAN 5 FT, WATER PIPE SHALL BE 12 INCHES ABOVE CROWN OF SEWER PIPE.
- ALL PIPING SHALL BE RUN IN AREAS NOT SUBJECT TO FREEZING TEMPERATURES. PIPING IN EXTERIOR WALLS SHALL BE INSULATED AND RUN ON THE CONDITIONED SIDE OF THE WALL INSULATION. IF ROUTED IN UNCONDITIONED AREAS, PIPING MUST BE INSULATED WITH A MINIMUM OF R-6.5.
- PROVIDE PRESSURE REDUCING VALVE AT ALL BUILDINGS WHERE PRESSURE EXCEEDS 80 PSI.

PLUMBING FIXTURE LEGEND

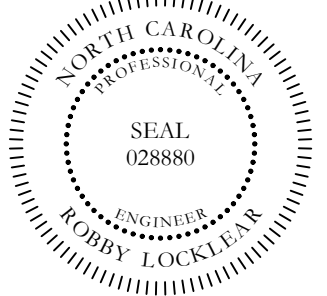
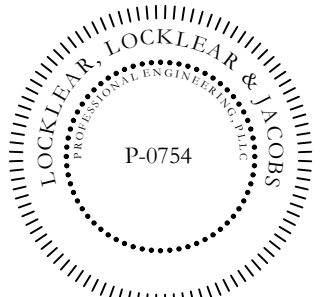
MARK	SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	WATER LINE SIZES		
				COLD	HOT	VENT (MIN)
LAV		LAVATORY	AMERICAN STANDARD MODEL # 4869.004.020 WITH METERING FAUCET OR APPROVED EQUAL BY ZURN OR KOHLER	1/2"	1/2"	1-1/2"
WC		WATER CLOSET	AMERICAN STANDARD - FLUSH VALVE ADA TOILET MODEL #2857.128.020, OR APPROVED EQUAL BY ZURN OR TOTO WITH ELONGATED SEAT	1"	N/A	2"
SNK		DOUBLE SINK	ELKAY CR2918 DOUBLE BOWL STAINLESS WITH DELTA 400 FAUCET OR APPROVED EQUAL BY AMERICAN STANDARD OR MOEN	1/2"	1/2"	1-1/2"
CO		CLEAN-OUT	PVC CLEAN-OUT	N/A	N/A	N/A
FD		FLOOR DRAIN	ZURN, MODEL ZN415B, STRAINER & TRAP GUARD OR APPROVED EQUAL BY WATTS OR JONES STEPHENS	N/A	N/A	N/A
IWH		INSTANTANEOUS WATER HEATER	EEMAX SPEX4208T	3/4"	3/4"	N/A
IMB		ICE MAKER BOX	OATEY MODEL# 38689 OR APPROVED EQUAL BY SIOUX CHIEF OR EASTMAN	1/2"	N/A	N/A
REF		REFRIGERATOR	BY OWNER	N/A	N/A	N/A

DRAWING INDEX

SHEET	SHEET TITLE	REV #	DATE
P-001	PLUMBING NOTES AND SCHEDULES	-	
P-101	PLUMBING PLAN	-	
P-301	PLUMBING DETAILS	-	



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PROJECT INFORMATION:

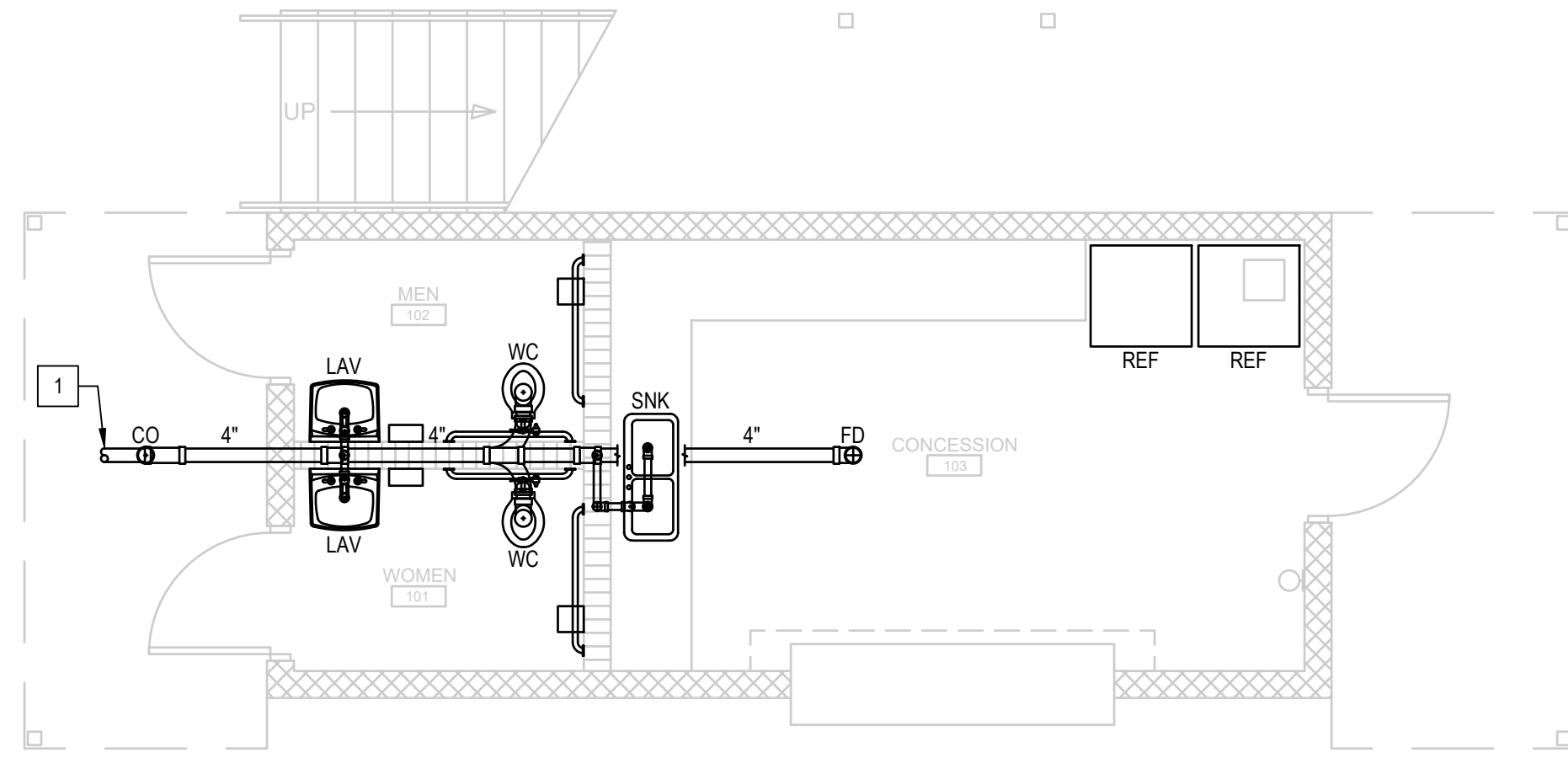
REV#	DATE	DESCRIPTION
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DATE: 5/9/2022
DRAWN BY: CKD
CHECKED BY: RL

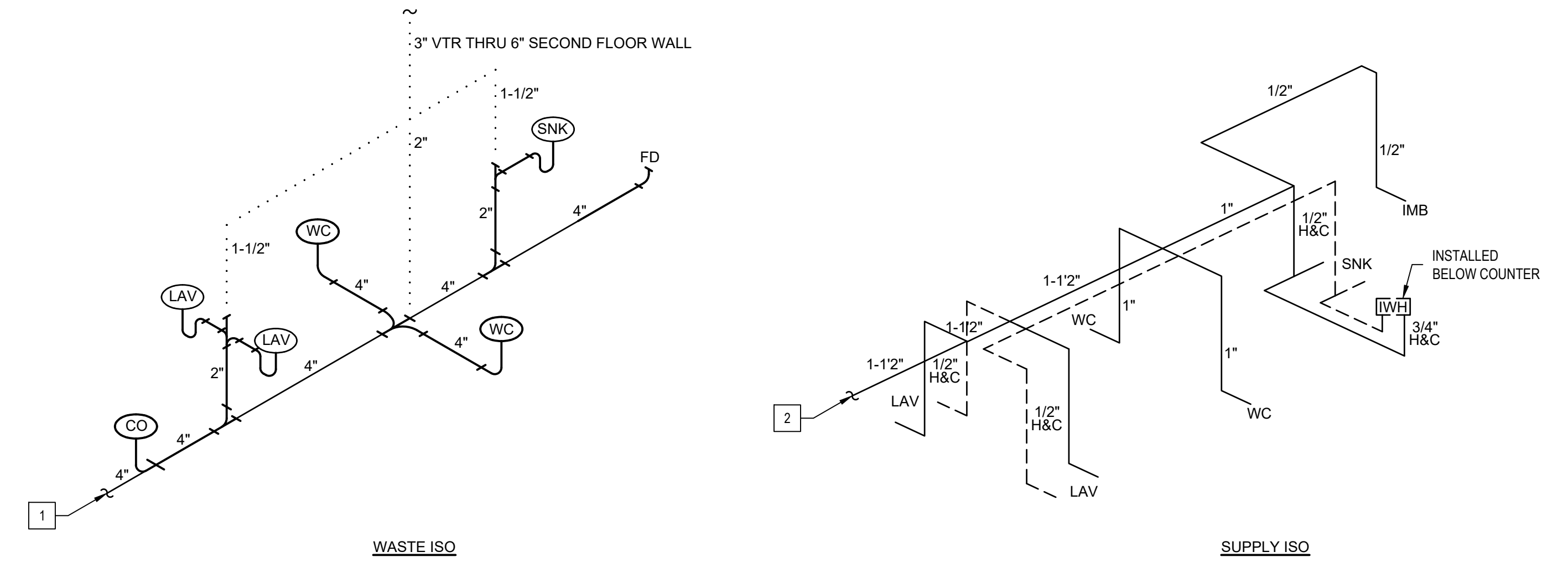
SHEET TITLE
PLUMBING NOTES AND SCHEDULES

SHEET NUMBER
P-001

PROJECT# 21-1110



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



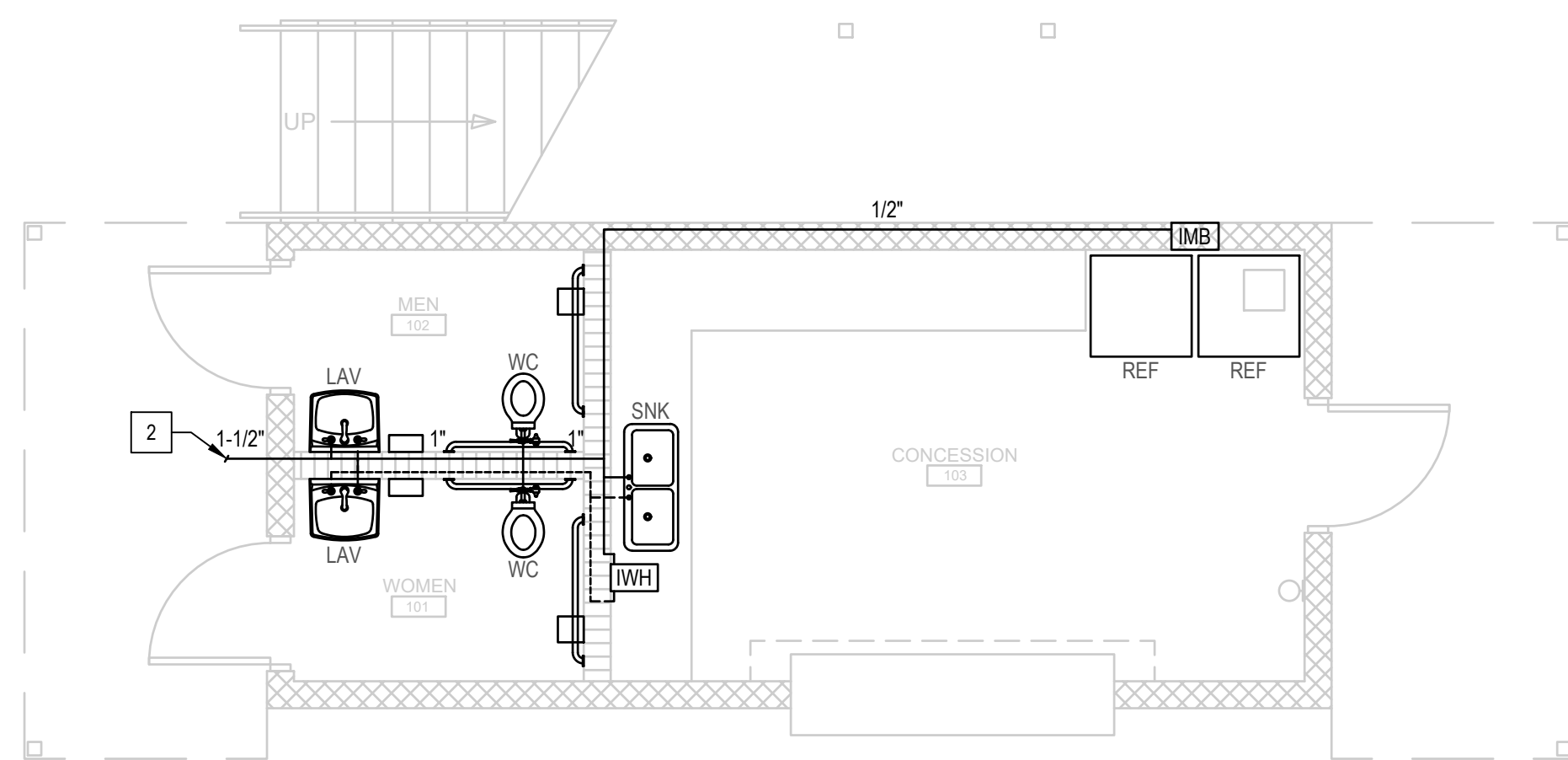
WASTE LEGEND	
SYMBOL	DESCRIPTION
	WASTE PIPE
	WASTE VENT

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

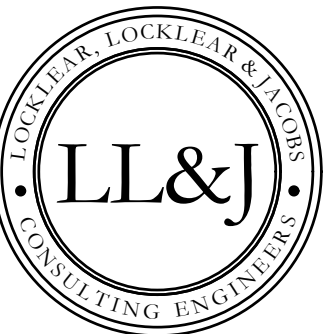
2 PLUMBING WASTE AND SUPPLY ISO'S
SCALE: NTS



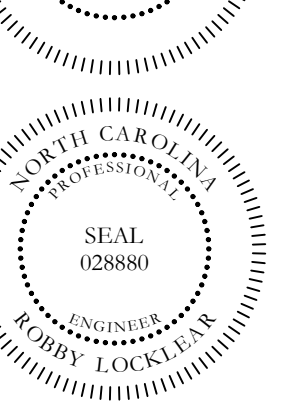
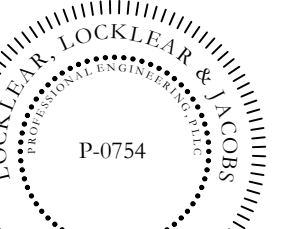
3 FIRST FLOOR SUPPLY PLAN
SCALE: 1/4" = 1'-0"

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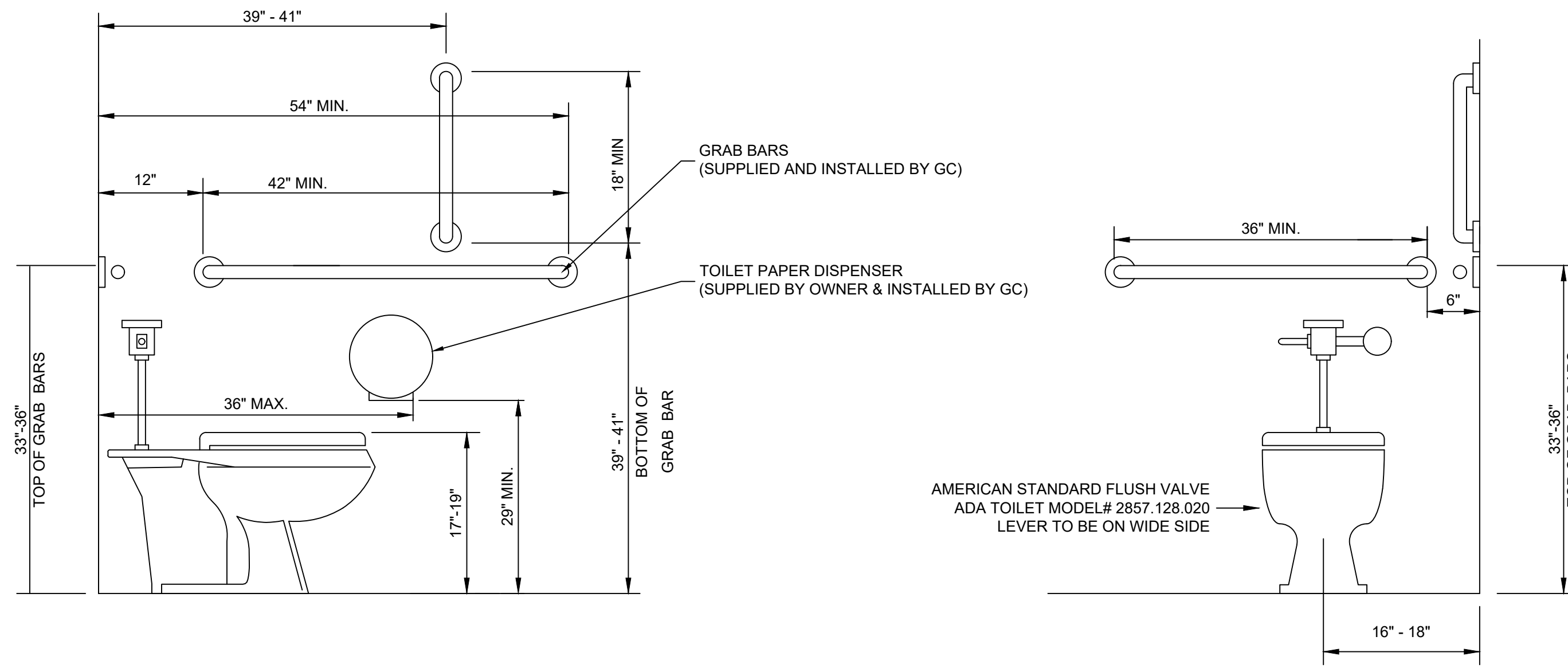
DATE: 5/9/2022
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CHECKED BY: RL
SHEET TITLE:

PLUMBING PLAN

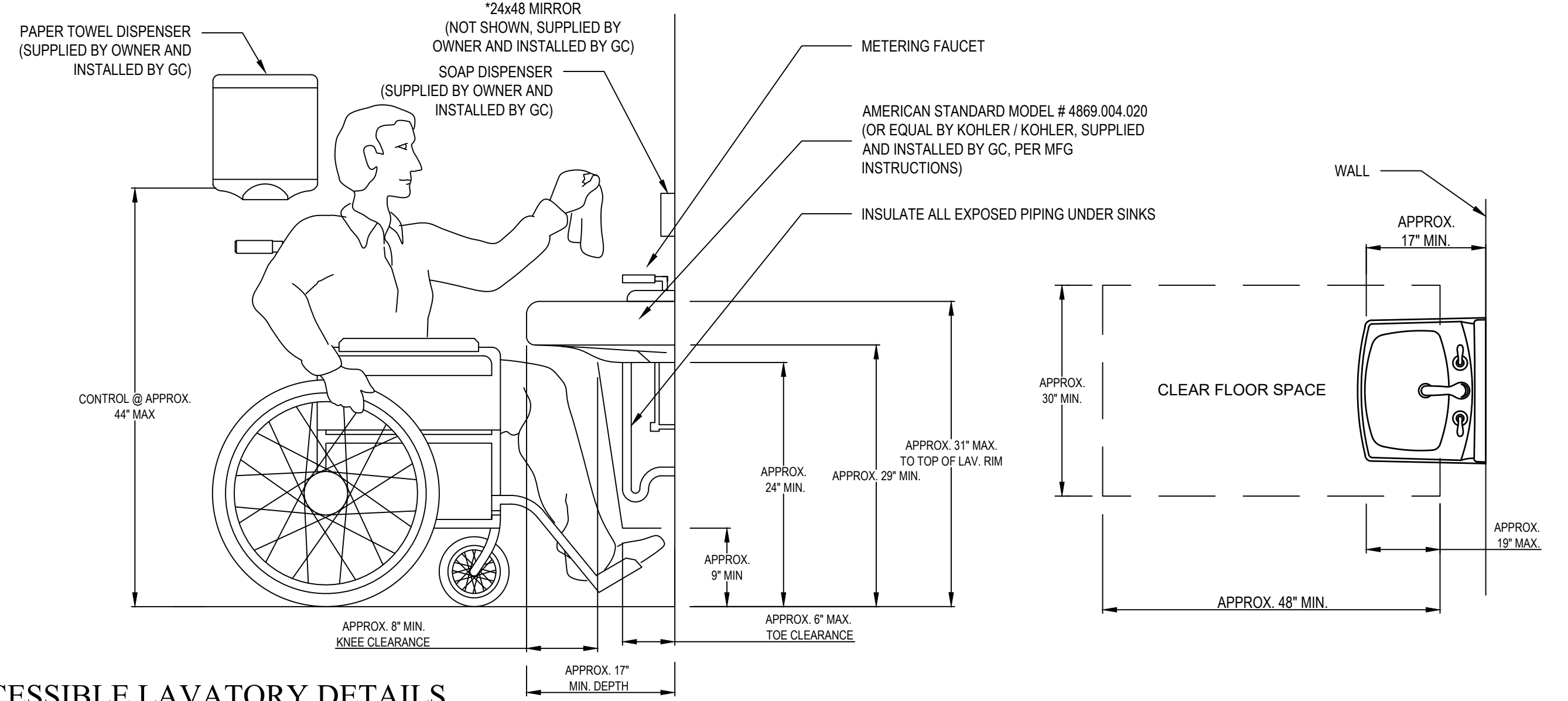
SHEET NUMBER

P-101

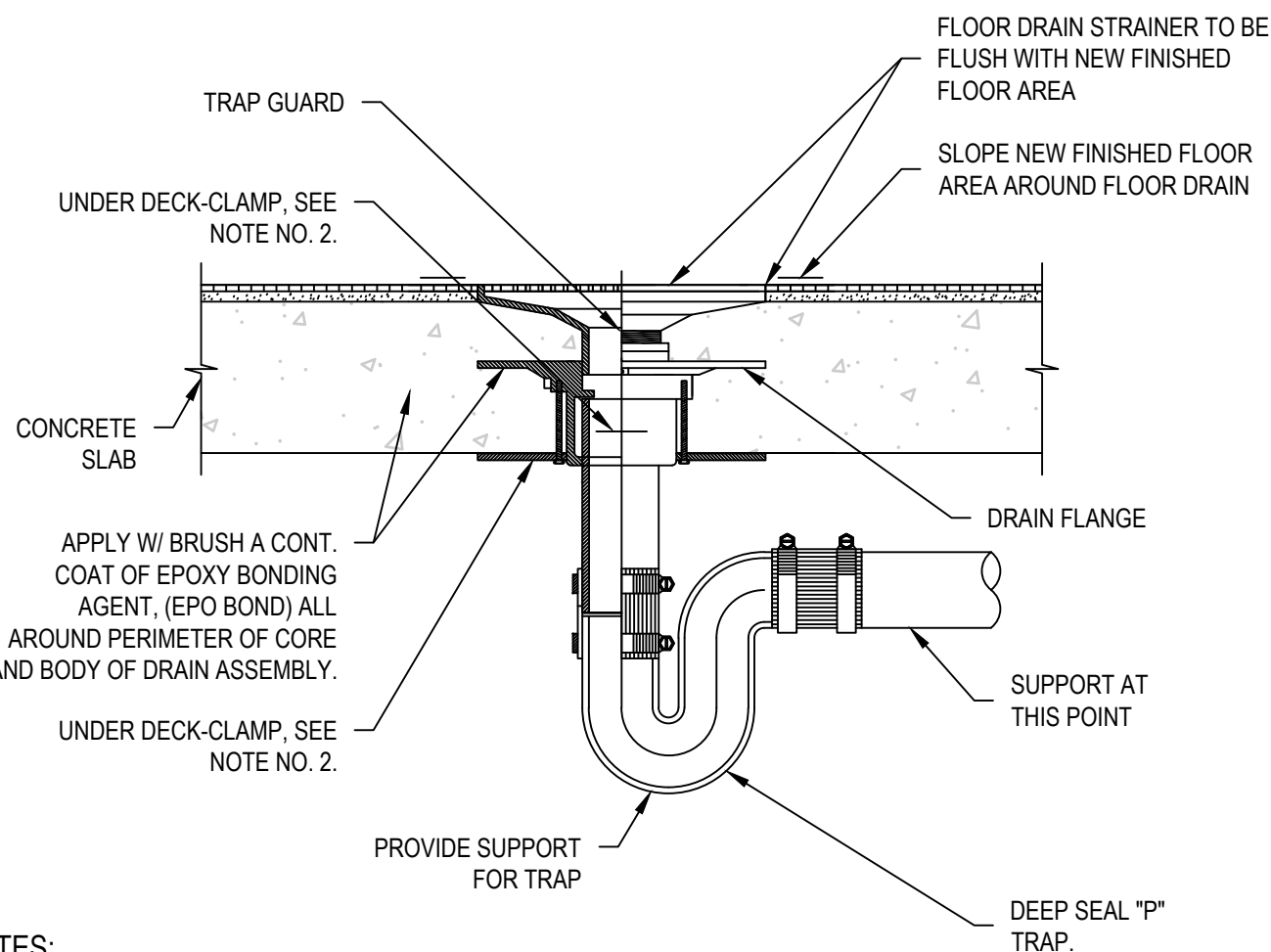
PROJECT# 21-1110



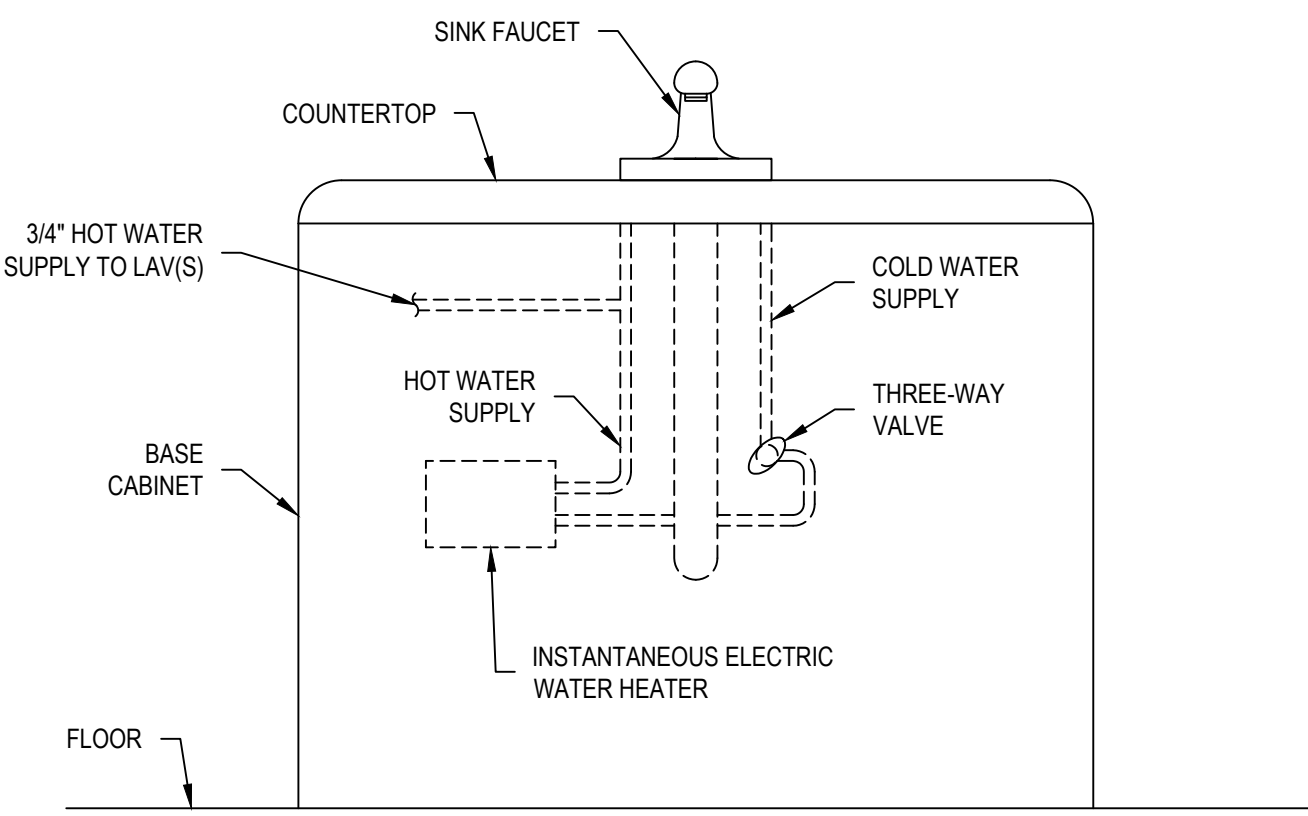
1 ADA TOILET ELEVATION DETAILS
NTS



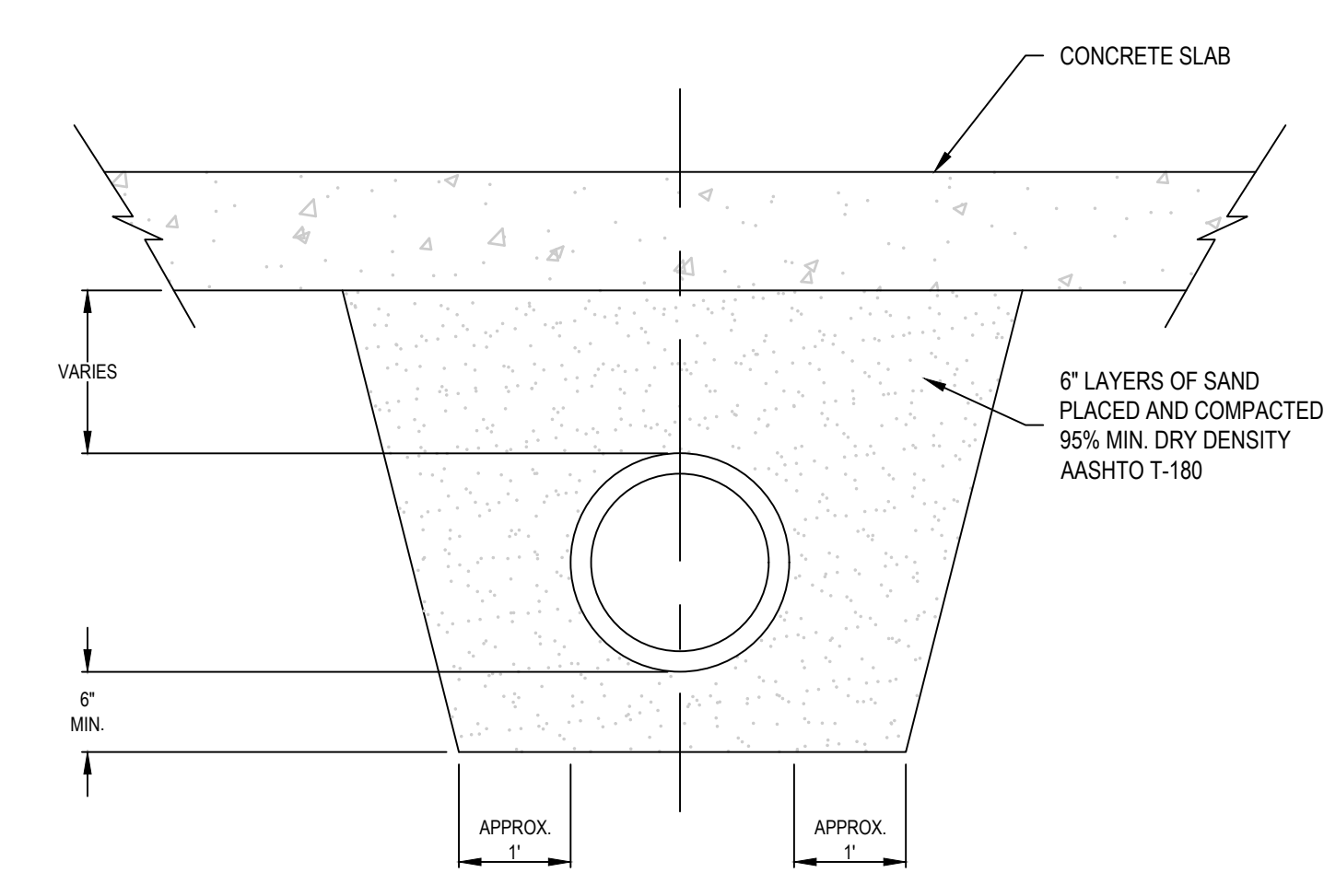
2 ACCESSIBLE LAVATORY DETAILS
NTS



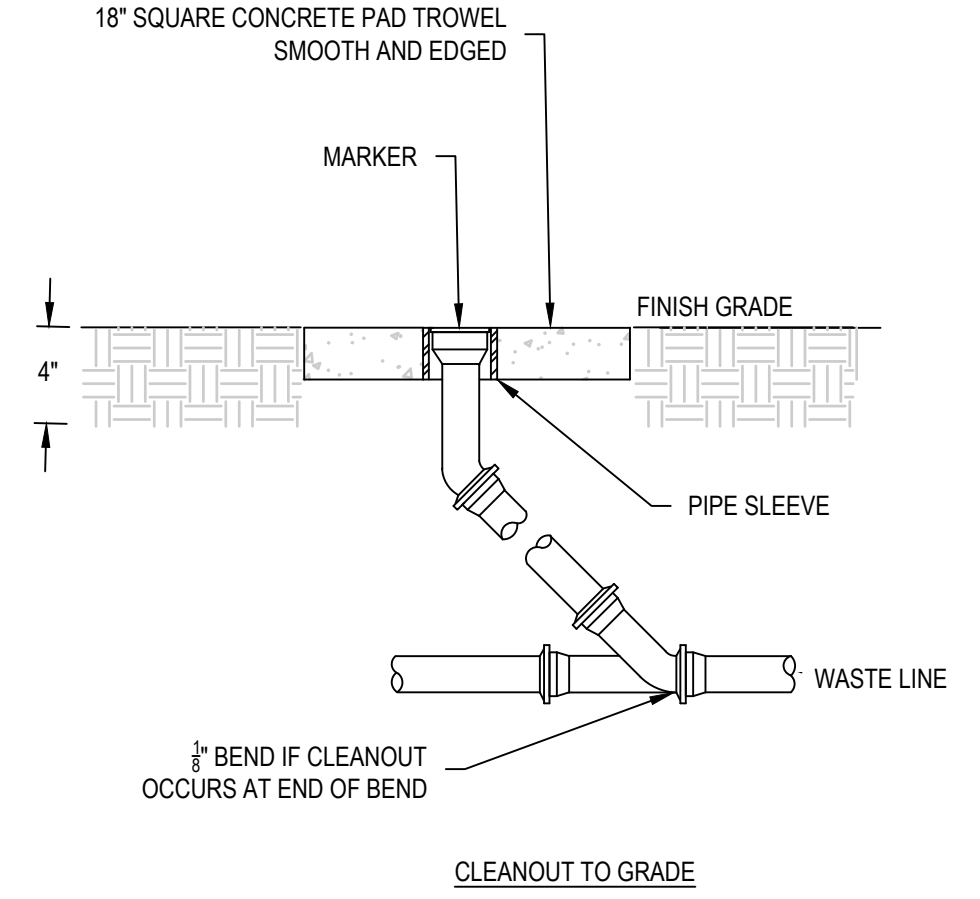
3 TYPICAL FLOOR DRAIN INSTALLATION DETAIL
NTS



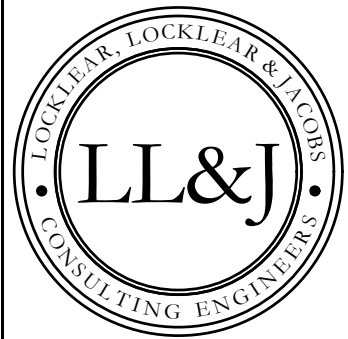
4 INSTANTANEOUS WATER HEATER DETAIL
NTS



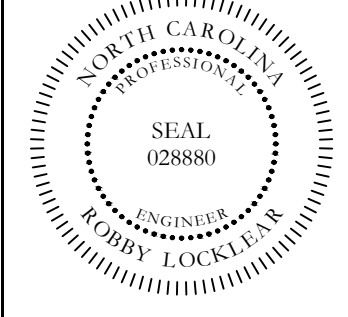
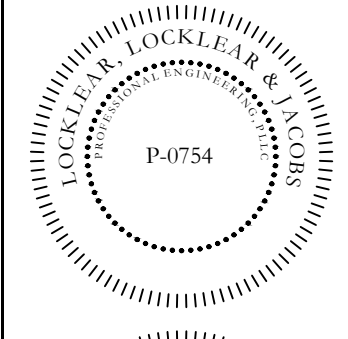
5 TYPICAL PIPE UNDER SLAB DETAIL
NTS



6 EXTERIOR CLEANOUT DETAIL
NTS



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

PLUMBING
DETAILS

SHEET NUMBER
P-301
PROJECT# 21-1110

MECHANICAL NOTES

- 1. 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.
2. 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...)
3. 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.
4. 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.
5. 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.
6. SUBMISSION OF A PROPOSAL SHALL BE CONSIDERED 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.
7. 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.
8. 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.
9. INSTALLATION OF ALL EQUIPMENTS AND THIS ACCESSORIES SHALL BE PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
10. 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.
11. 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.
12. 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.
13. 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.
14. ALL WALL AND ROOF OPENINGS SHALL BE WATER PROOFED AND AIR TIGHT SEALED AND SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
15. 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")
16. ALL DUCT DIMENSIONS SHOWN ARE INSIDE METAL DIMENSIONS AND ARE IN INCHES. DUCT SIZES HAVE BEEN INCREASED, WHERE REQUIRED, TO ALLOW FOR LINING.
17. 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. ALL HVAC PENETRATIONS THROUGH FIRE RATED WALLS AND CEILING SHALL BE PROTECTED WITH FIRE DAMPERS, CLASSIFIED UNDER UL STANDARD 555.
23. 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.
24. ACCESS DOORS SHALL BE PROVIDED AT EACH FIRE DAMPER LOCATION. ACCESS DOORS SHALL BE RUSKIN (OR APPROVED EQUAL).
25. 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.
26. REFER TO MANUFACTURER GUIDELINES FOR COPPER REFRIGERANT LINES WALL THICKNESS, TEMPER GRADES, AND INSTALLATION. FLUSH ALL LINES WITH NITROGEN.
27. REFER TO MANUFACTURER GUIDELINES FOR INSULATING REFRIGERANT LINES.
28. MECHANICAL CONTRACTOR SHALL FURNISH SUBMITTALS CONTAINING EQUIPMENT, DUCTWORK AND CONTROL DRAWINGS FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT, OR MATERIAL.
29. 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.
30. ALL NECESSARY OFFSETS AND ELEVATION CHANGES ARE NOT SHOWN ON THE DRAWINGS. CONTRACTOR TO REFLECT/COORDINATE THE REQUIRED RISE/DROPS WITH FIELD CONDITIONS.
31. 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.
32. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN.
33. 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.
34. ALL AIR HANDLING SYSTEMS TO BE TESTED AND BALANCED BY A NEBB OR AABC CERTIFIED FIRM.

MECHANICAL TAG LEGEND

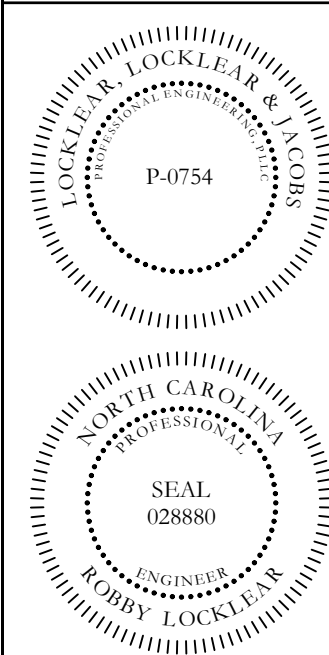
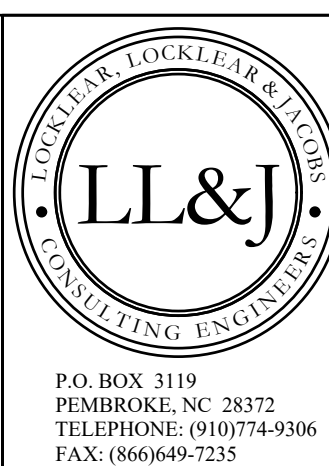
Table with 2 columns: SYMBOL and DESCRIPTION. Includes symbols for service types (S, R, E, T), locations (C, D, F, H, L), equipment designations (AHU, T, S, CD, CR, ER, H, S, RT), and section numbers (X, M-X).

MECHANICAL ABBREVIATIONS

Table listing mechanical abbreviations such as A (AIR OR COMPRESSED AIR), AC (AIR CONDITIONING), AHU (AIR HANDLING UNIT), and others, with their corresponding full names.

MECHANICAL SUMMARY table containing data for Thermal Zone (Winter/Summer Dry Bulb), Interior Design Conditions, Building Heating/Cooling Loads, and Mechanical Spacing Conditioning System details.

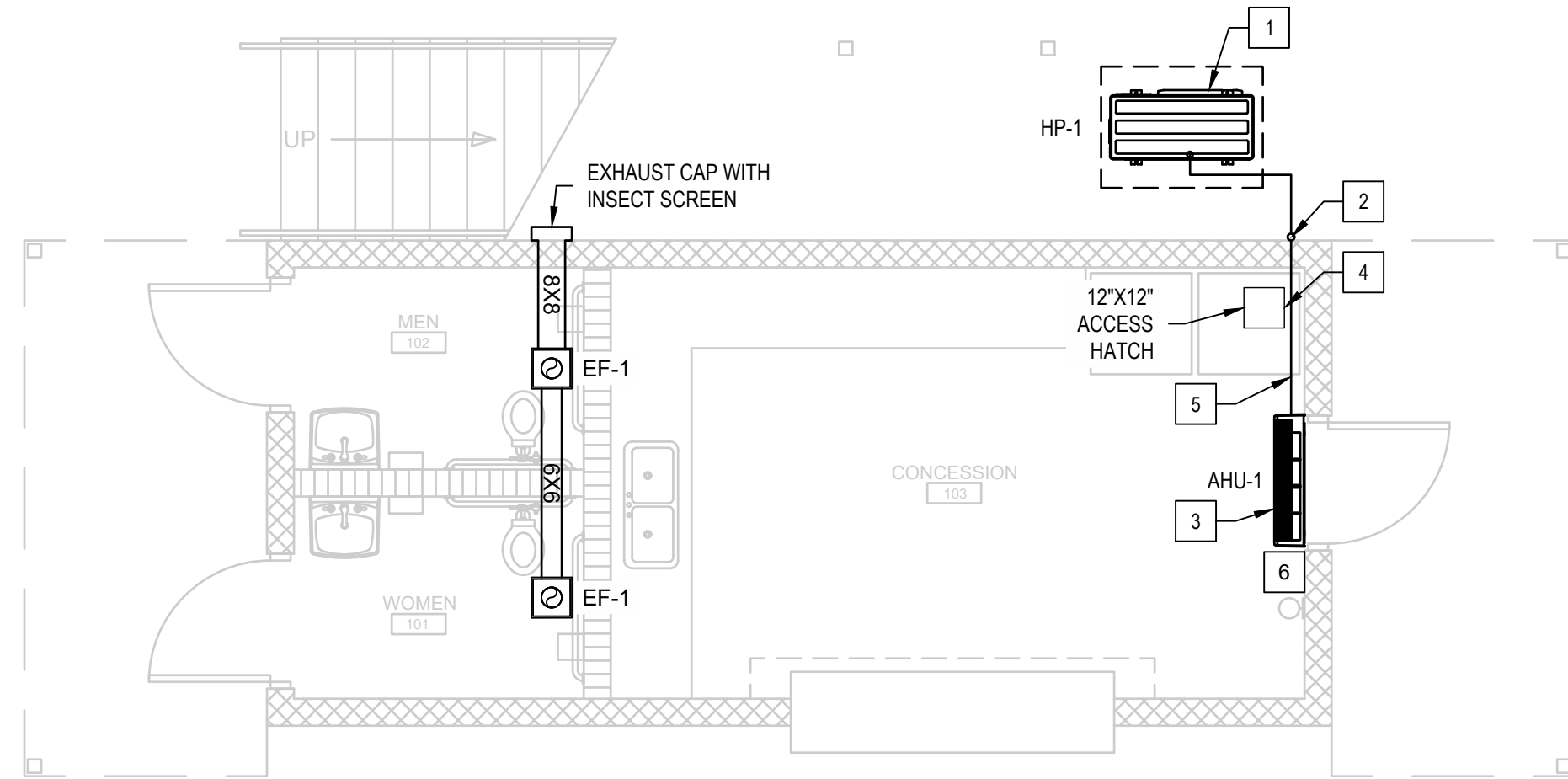
DRAWING INDEX table with columns for SHEET, SHEET TITLE, REV #, and DATE. Lists sheets M-001 through M-301.



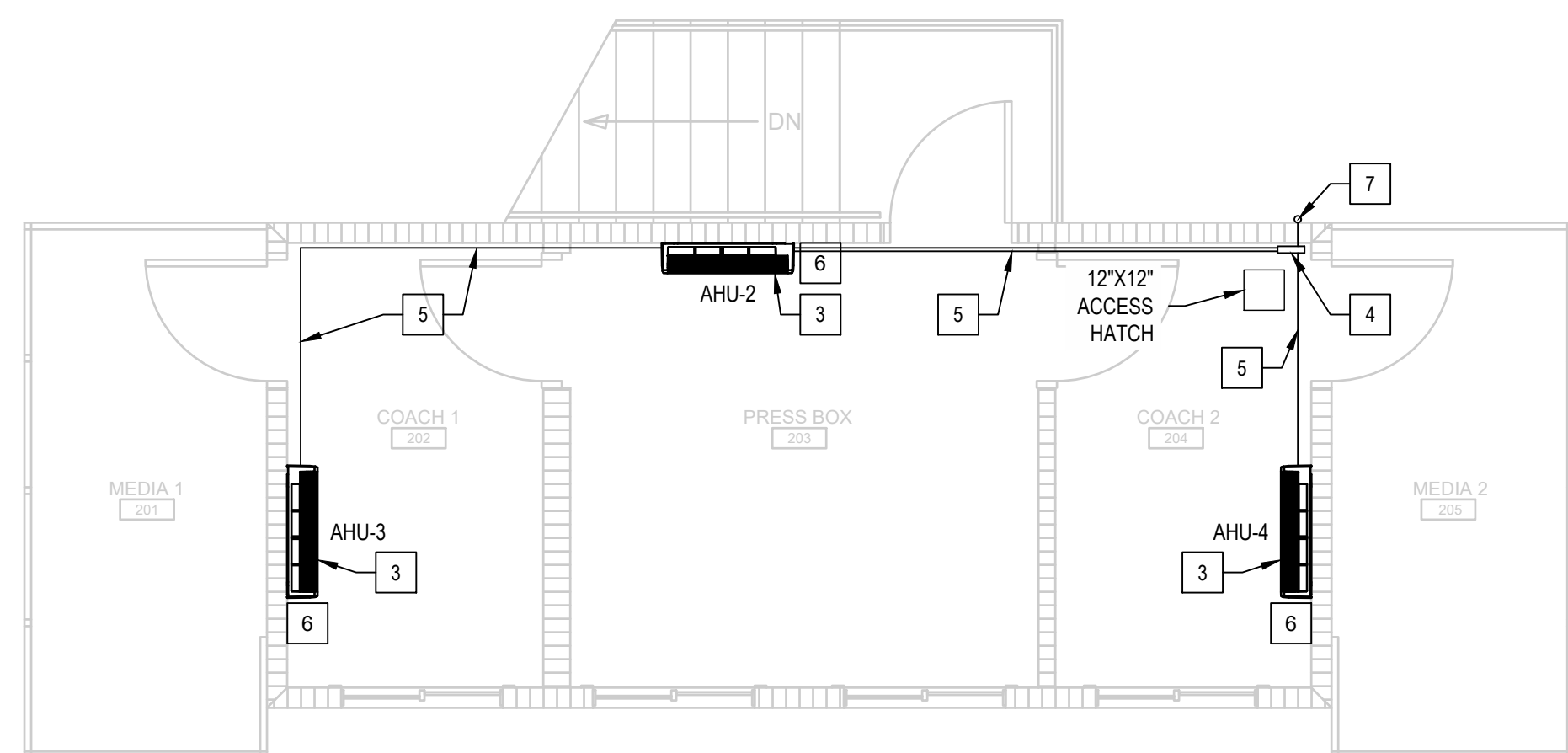
PROJECT INFORMATION: HARNETT CENTRAL PRESS BOX, HARNETT COUNTY SCHOOLS, 2911 HARNETT CENTRAL RD, ANGIER, NC 27501

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

DATE: 5/9/2022, DRAWN BY: CKD, CHECKED BY: RL, SHEET TITLE: MECHANICAL NOTES LEGEND AND ABBREVS, SHEET NUMBER: M-001, PROJECT#: 21-1110



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



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

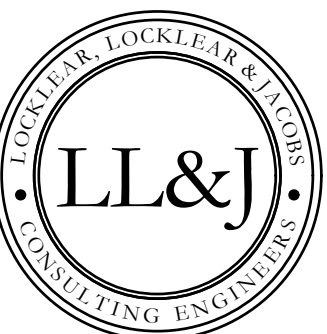
EQUIPMENT SCHEDULE										
TAG	MITSUBISHI MODEL #	DESCRIPTION	VOLT, ϕ , Hz	MCA	MOCP	AIRFLOW (CFM)	NOMINAL COOLING CAPACITY	NOMINAL HEATING CAPACITY @ 17°F	SEER	EER
HP-1	NTXMSM36A142AA	HEAT PUMP	208-230, 1, 60	29	40	N/A	36,000 BTU/H	26,400 BTU/H	23	15
AHU-1,2	TPKFYP012LM140A	WALL MTD.	208-230, 1, 60	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:
 1. EQUIPMENT AS MANUFACTURED BY MITSUBISHI OR APPROVED EQUAL BY FUJITSU / LG / CARRIER.
 2. LINE SET COVERS AS MANUFACTURED BY DIVERSITECH OR EQUAL BY RECTORSEAL / FORTRESS.
 3. HARD WIRED THERMOSTATS FOR FOR EACH AREA (TOTAL OF 4 WIRED THERMOSTATS).
 4. REFRIGERANT LINES TO BE HARD COPPER, REFRIGERANT LINE SIZING PER MANUFACTURER'S GUIDELINES.
 5. AHU'S 2,3,4 TO REQUIRE CONDENSATE PUMP.

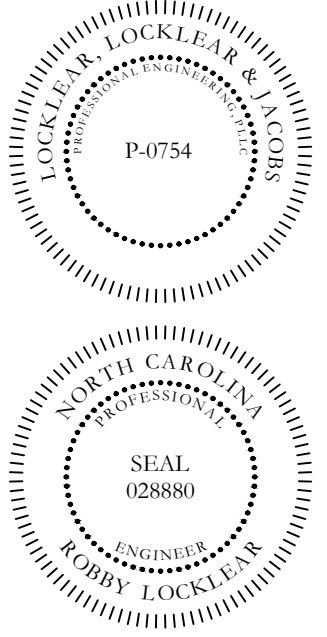
EXHAUST FAN SCHEDULE									
TAG	MAKE	MODEL	MOUNTINGTY PE	CFM	EXT STATIC AT MAX FLOW (IN. WG)	MAX INPUT WATTS	AMPS	RPM	NOTES
EF-1	GREENHECK	SP-A90	CEILING	80	.25	16.9	0.14	870	1, 2

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

- KEY NOTES:
 1 HEAT PUMP-1 (INSTALLED ON 4" CONCRETE PAD). COORDINATE LOCATION WITH OWNER/ENGINEER.
 2 LINE SET TO TRANSITION UP EXTERIOR WALL TO THE FIRST LEVEL AND PENETRATE EXTERIOR WALL BELOW CEILING(COORDINATE LOCATION).
 3 AHU (WALL MOUNTED). COORDINATE LOCATION WITH OWNER/ENGINEER.
 4 BRANCH JOINT ABOVE ACCESS HATCH. COORDINATE LOCATION WITH OWNER/ENGINEER.
 5 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.
 6 INSTALL 7 DAY PROGRAMMABLE THERMOSTAT(TO BE MOUNTED ON THERMAL BLOCK). COORDINATE LOCATION WITH OWNER/ENGINEER.
 7 LINE SET TO TRANSITION UP EXTERIOR WALL TO THE SECOND LEVEL AND PENETRATE EXTERIOR WALL BELOW CEILING(COORDINATE LOCATION).



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



HARNETT CENTRAL PRESS BOX
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 2911 HARNETT CENTRAL RD
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PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
1		
2		
3		
4		
5		

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

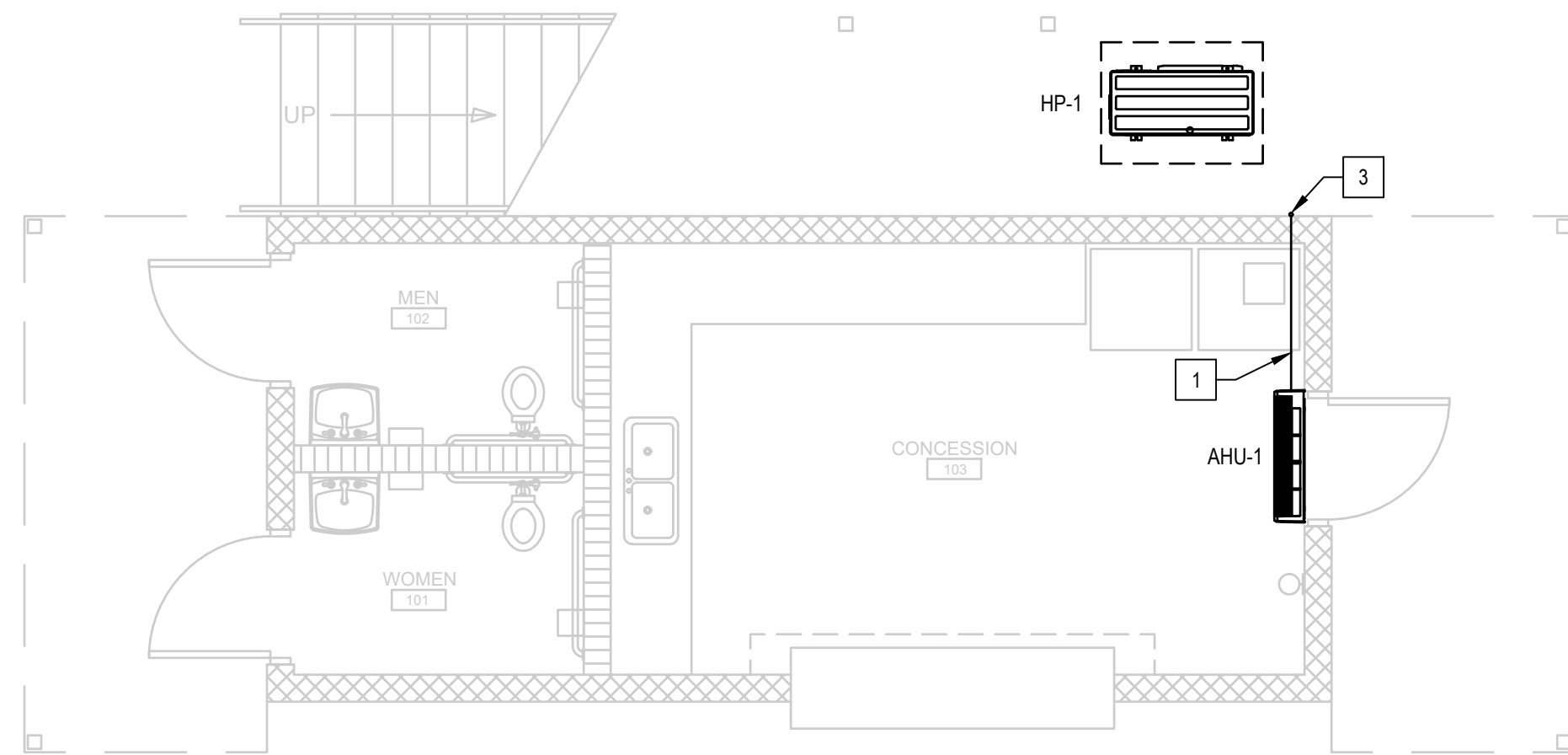
SHEET TITLE

MECHANICAL PLAN

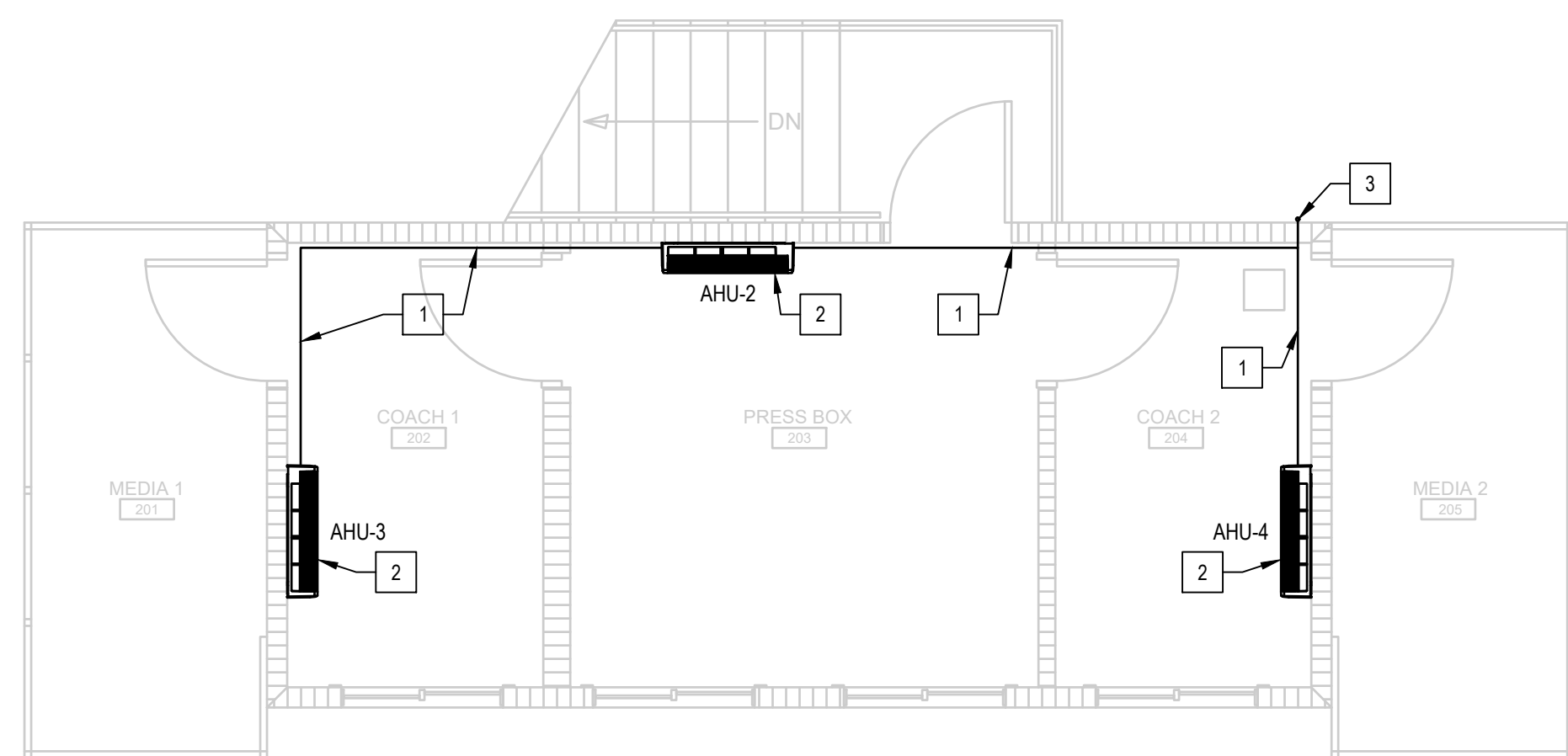
SHEET NUMBER

M-101

PROJECT# 21-1110

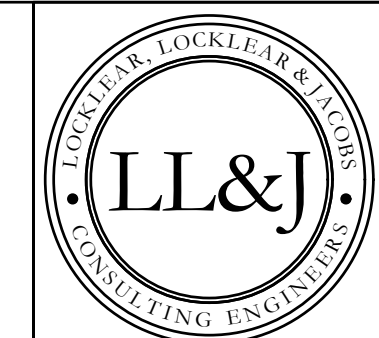


1 FIRST FLOOR MECHANICAL CONDENSATE PLAN
SCALE: 1/4" = 1'-0"

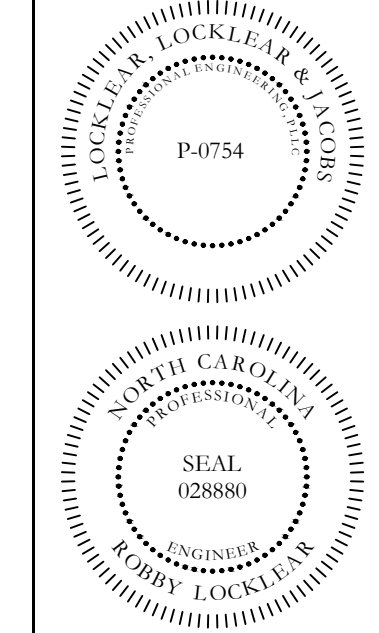


2 SECOND FLOOR MECHANICAL CONDENSATE PLAN
SCALE: 1/4" = 1'-0"

- 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
1		
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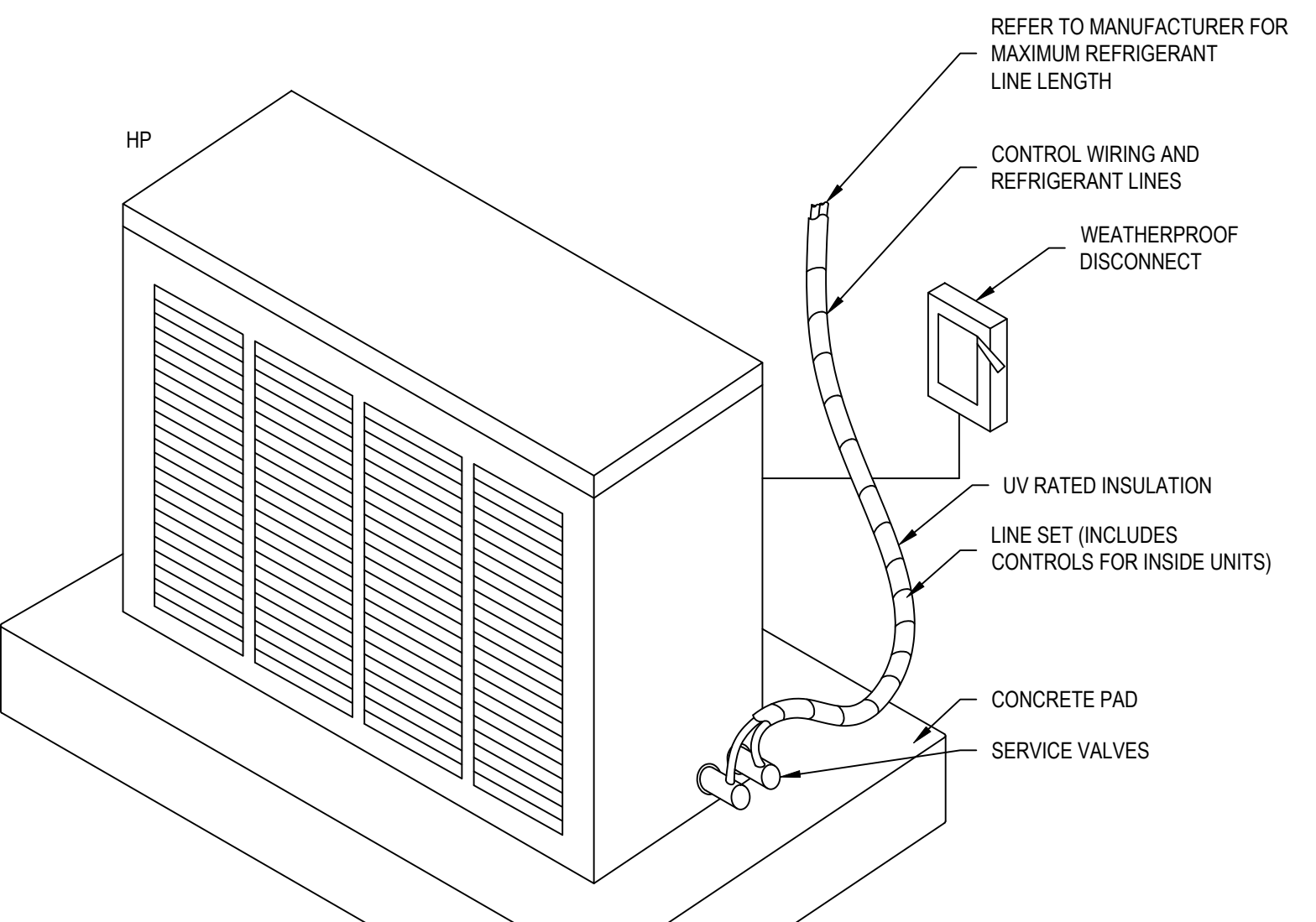
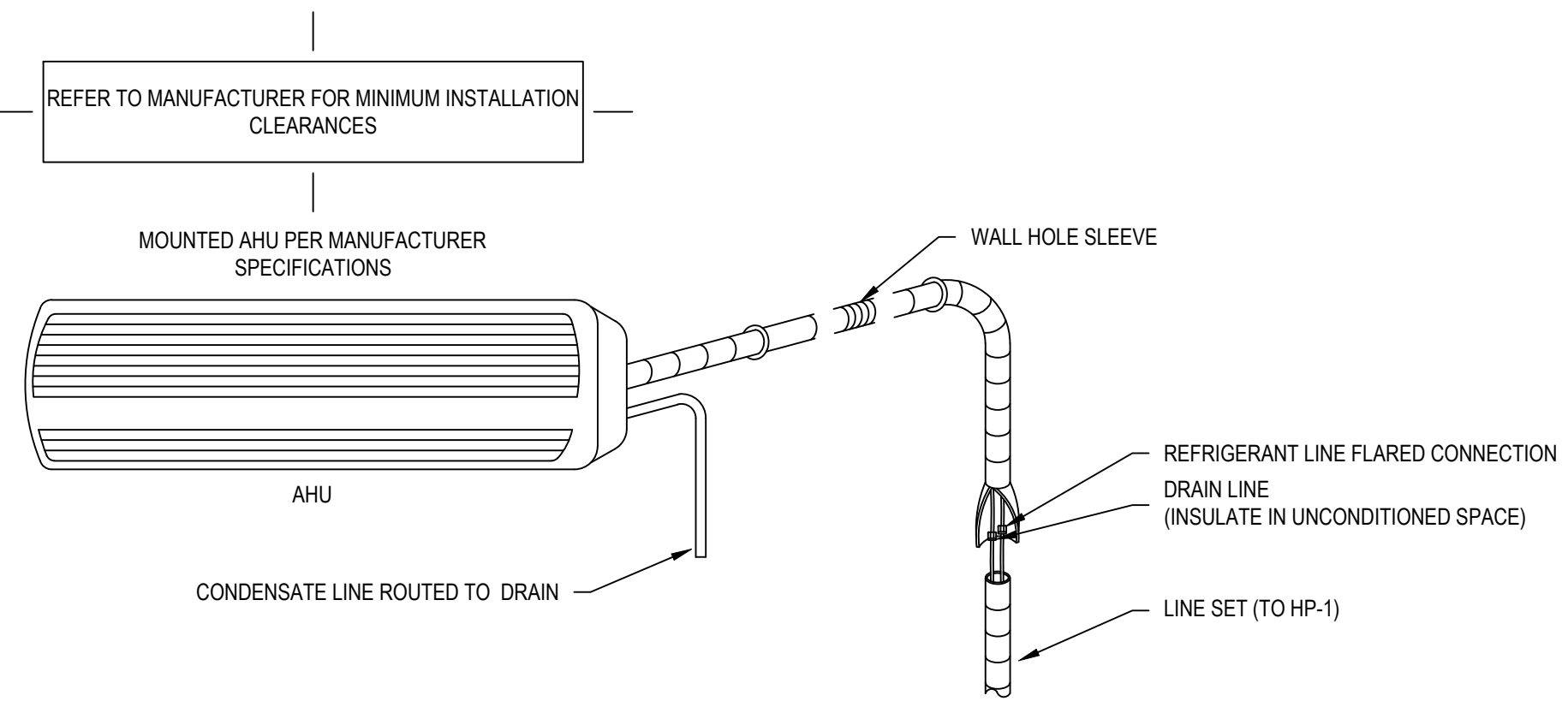
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DATE: 5/9/2022
DRAWN BY: CKD
CHECKED BY: RL
SHEET TITLE:

**MECHANICAL
CONDENSATE
PLAN**

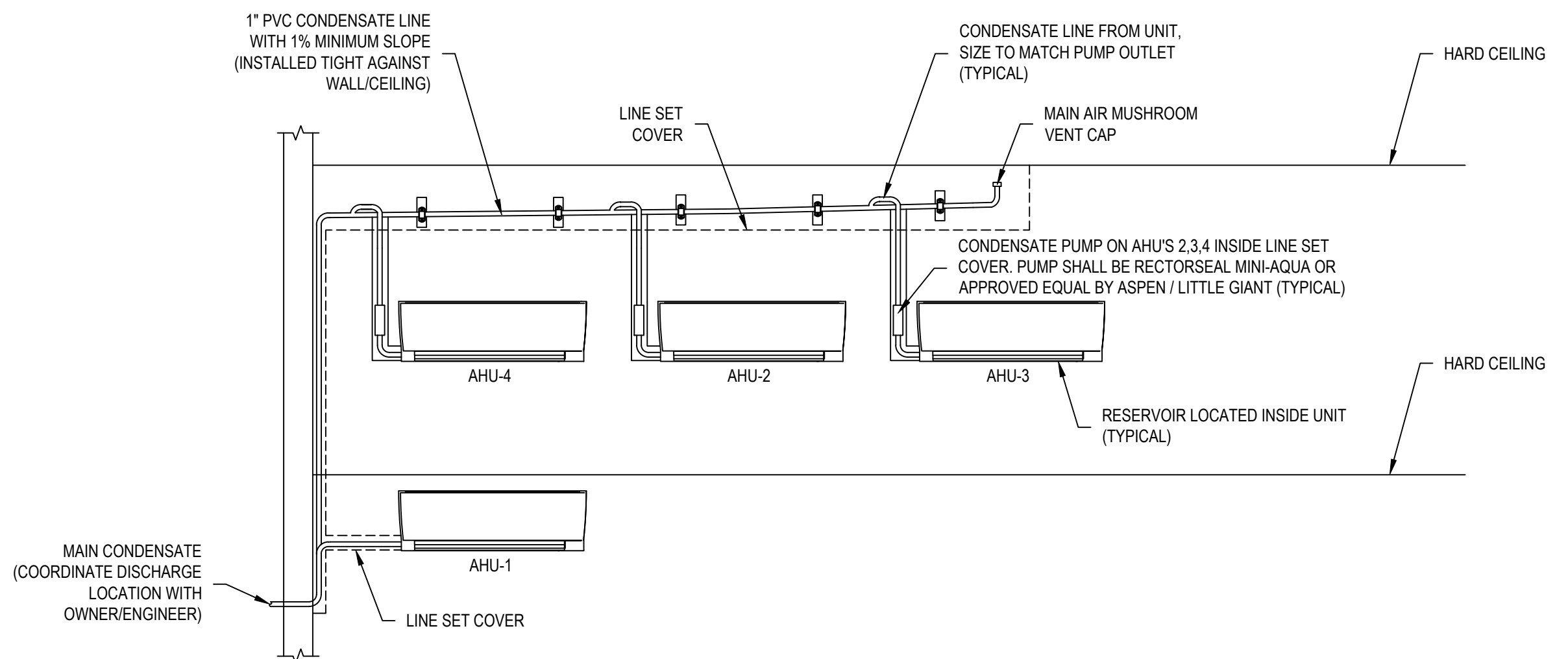
SHEET NUMBER
M-102
PROJECT# 21-11110

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



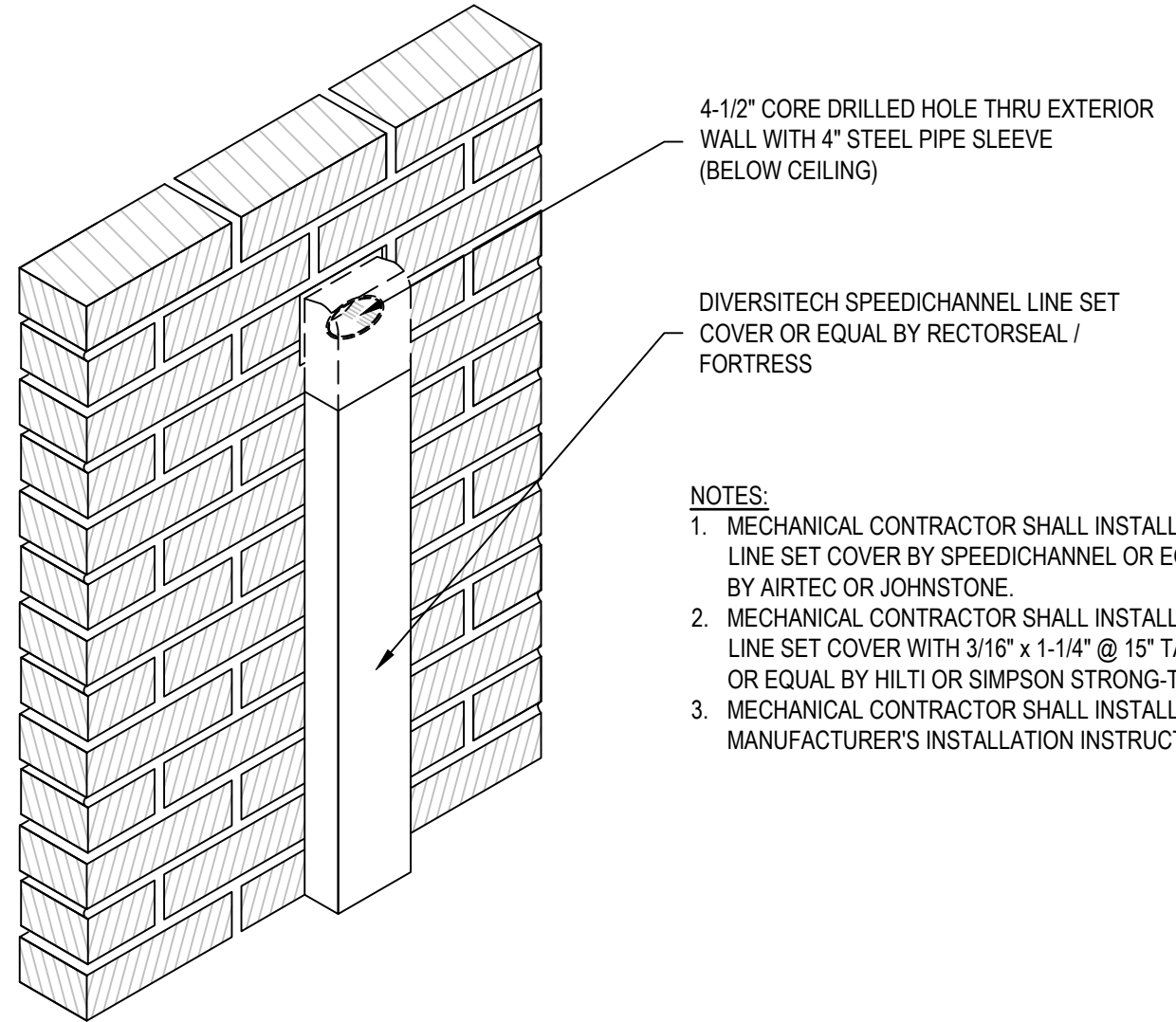
- HVAC NOTES:**
1. PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR INSTALLATION OF FIXTURES, PIPING AND EQUIPMENT.
 2. PATCH ALL OPENINGS IN BUILDING CONSTRUCTION WHERE PIPING PENETRATES WALLS, ROOF, ETC. PATCHING SHALL BE SAME MATERIALS AS SURROUNDING CONSTRUCTION. FINISH TO MATCH EXISTING CONSTRUCTION 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).

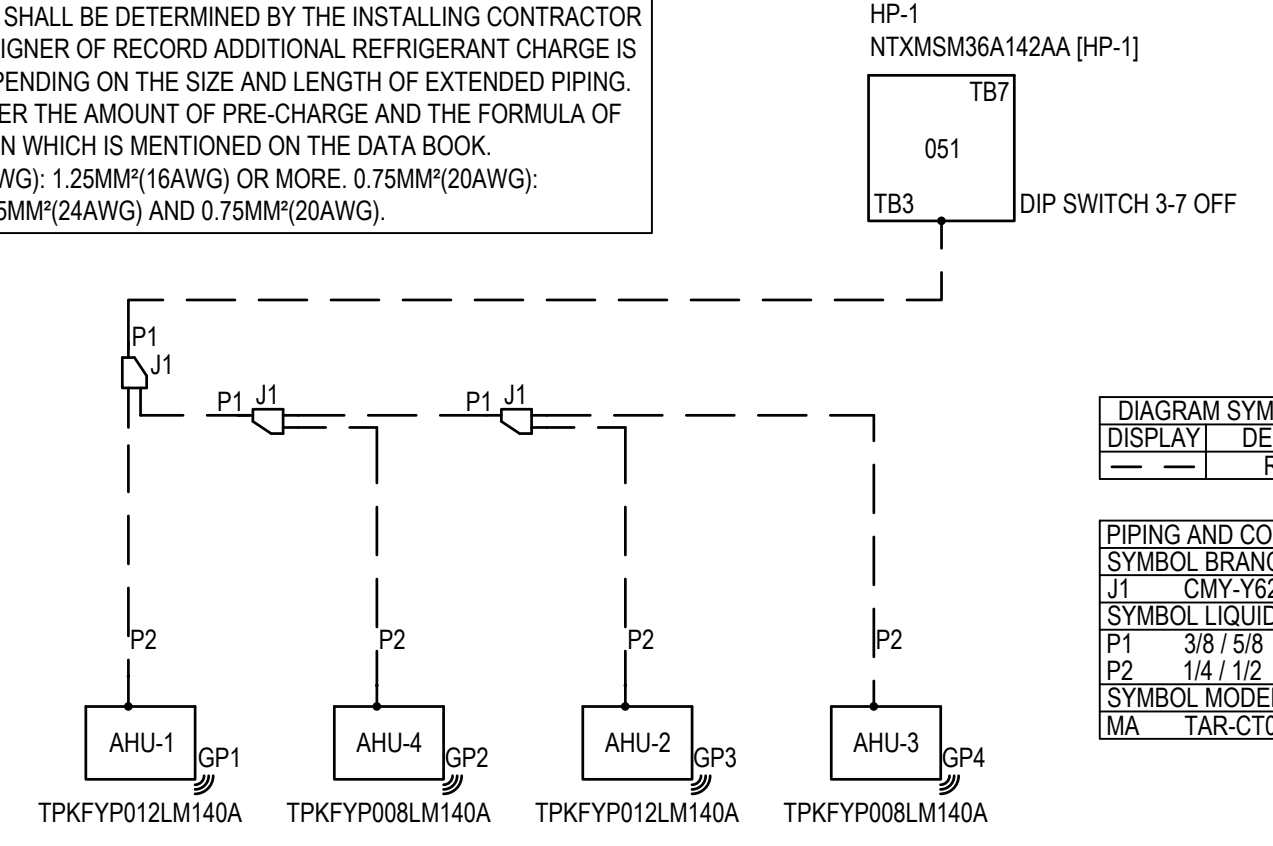
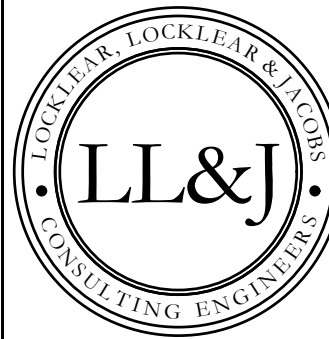


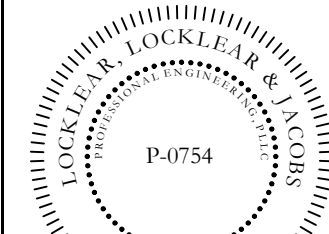
DIAGRAM SYMBOL LEGEND	
DISPLAY	DESCRIPTION
---	REF. PIPE

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

HARNETT CENTRAL PRESS BOX
HARNETT COUNTY SCHOOLS
2911 HARNETT CENTRAL RD
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PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
1		
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DATE: 5/9/2022
DRAWN BY: CKD
CHECKED BY: RL
SHEET TITLE

MECHANICAL DETAILS

SHEET NUMBER
M-301
PROJECT# 21-11110

D:\Dropbox (L.L&J)\21-11110 Harnett County Schools Press Box\1-Drawings\Harnett Central High Press Box\MEP\21-11110 Harnett Central Press Box MEP (CKD).dwg, M-301 MECHANICAL DETAILS, rlogr

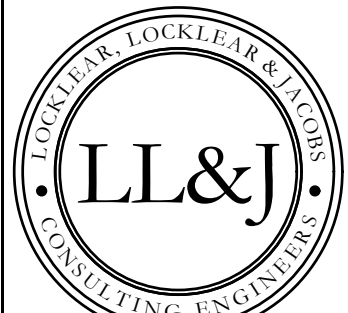
ELECTRICAL NOTES:

- 1. THE CONTRACT DOCUMENTS CONSIST OF DRAWINGS, SPECIFICATIONS AND DESIGN INFORMATION PREPARED BY MULTIPLE DISCIPLINES AND MUST BE USED AS A WHOLE AND IN COORDINATION WITH EACH OTHER...
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY APPARENT DISCREPANCIES OR OMISSION OF INFORMATION NOT SHOWN ON THE ELECTRICAL DRAWINGS...
3. THE CONTRACTOR SHALL FIELD VISIT THE SITE PRIOR TO BID TO FAMILIARIZE HIMSELF WITH THE SCOPE OF WORK...
4. ALL WORK SHALL BE DONE IN A FIRST CLASS WORKMANLIKE MANNER BY A LICENSED ELECTRICAL CONTRACTOR...
5. WITHIN 30 DAYS AFTER THE DATE OF THE SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER...
6. UNLESS PROVIDED WITH DIMENSIONS OR NOTED OTHERWISE, ELECTRICAL PLANS ARE STRICTLY DIAGRAMMATIC ONLY...
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS, PAYING ALL ASSOCIATED FEES, AND DOCUMENTING AND FILING ALL PAPERWORK...
8. THE CONTRACTOR IS EXPECTED TO HAVE A FULL FUNCTIONAL KNOWLEDGE OF ELECTRICAL SYSTEMS AND WHETHER INDICATED ON THE DRAWINGS OR NOT SHALL PROVIDE THE CORRECT NUMBER OF WIRES...
9. THE INSTALLATION SHALL BE IN COMPLIANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA)...
10. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATIONS OF EQUIPMENT...
11. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW (UNLESS NOTED OTHERWISE) AND BEAR THE U.L. LISTING FOR THEIR INTENDED USE...
12. THE FAULT CURRENT RATING OF ALL EQUIPMENT ADDED TO THE ELECTRICAL DISTRIBUTION SHALL MEET THE AVAILABLE FAULT CURRENT...
13. THE CONTRACTOR SHALL GIVE PERMISSION FOR THE AHJ, ENGINEER, INSPECTOR, ETC. TO PERFORM TESTS OF THE ELECTRICAL SYSTEM AS REQUIRED...
14. SWITCH OUTLETS SHALL NOT BE OBSTRUCTED BY DOOR SWINGS AND OCCUPANCY SENSORS SHALL HAVE FULL VIEW OF THE INTENDED SPACE...
15. SWITCH AND RECEPTACLES INDICATED IN THE SAME LOCATION SHALL BE MOUNTED UNDER A COMMON COVERPLATE UNLESS OTHERWISE NOTED...
16. EVEN IF THE PLANS INDICATE, OUTLETS SHALL NOT BE INSTALLED PRECISELY BACK TO BACK ON COMMON WALLS...
17. JUNCTION AND PULL BOXES ARE ONLY INDICATED WHERE REQUIRED FOR LARGE SCALE COORDINATION...
18. CONDUCTORS SHALL BE LOOPED AROUND SCREW POSTS SO THAT ROTATION OF THE SCREW TENDS TO FURTHER WRAP THE CONNECTION...
19. THE CONTRACTOR SHALL MAINTAIN THE FIRE RATING OF ALL FIRE-RATED PARTITIONS...
20. THE CONTRACTOR SHALL MAINTAIN THE INSULATION RATING AND VAPOR BARRIERS ON ALL PERIMETER WALLS...
21. ALL EQUIPMENT REQUIRING ACCESS SUCH AS J-BOXES, PULL BOXES, TRANSFORMERS, DRIVERS, ETC. SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS...
22. CONDUITS AND/OR MATERIALS LOCATED IN ENVIRONMENTAL AIR PLenums SHALL BE PROPERLY LISTED FOR THE APPLICATION...
23. CABLE AND CONDUIT ROUTING SHALL BE DONE IN A NEAT AND ORDERLY FASHION...
24. CONDUITS SHALL BE RIGIDLY SUPPORTED TO THE BUILDING STRUCTURE...
25. CONDUIT SIZES INDICATED IN PANEL SCHEDULES AND ON THE SINGLE LINE ARE BASED ON TYPE THHN IN EMT...
26. WIRE SIZES INDICATED ARE BASED UPON DIRECT ORTHOGONAL PATHS TO THE PANELBOARD...
27. THE CONTRACTOR SHALL CIRCUIT PANELBOARDS EXACTLY AS INDICATED IN THE PANEL SCHEDULES...
28. NEUTRAL CONDUCTORS SHALL ONLY BE SHARED WHEN INDICATED ON THE DRAWINGS...
29. CONDUCTORS SHALL BE COPPER...
30. ALL EMERGENCY EGRESS, STANDBY LIGHTING, AND EXIT LIGHTING SHALL HAVE A BATTERY WITH RUN TIME MEETING OR EXCEEDING 90 MINUTES...
31. ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURAL SYSTEM...
32. THE EQUIPMENT GROUNDING SYSTEM SHALL CONSIST OF AN ELECTRICALLY CONTINUOUS METALLIC CONDUIT SYSTEM...
33. SUBMITTALS SHALL BE SUBMITTED ELECTRONICALLY...
34. PROVIDE PAD LOCKING HARDWARE ON CIRCUIT BREAKERS FOR EQUIPMENT WHICH IS HARDWIRED WITHOUT A LOCAL DISCONNECTING MEANS...
35. DUPLEX RECEPTACLES SHALL BE NEMA 5-20R...
36. WALL MOUNTED OCCUPANCY SENSORS SHALL BE ACUITY WSD PDT OR APPROVED EQUAL...
37. MOLDED CASE CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC AND AMBIENT COMPENSATED INVERSE TIME-DELAY OVERLOAD AND INSTANTANEOUS SHORT CIRCUIT PROTECTED...
38. ALL FUSES SHALL BE DUAL-ELEMENT LOW PEAK CLASS RK1 AS MANUFACTURED BY BUSSMAN OR LITTLE FUSE...
39. DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE, HIGH IZT RATED...
40. ALL 15 AND 20A RECEPTACLES LOCATED IN KITCHENS, WITHIN 6' OF SINKS, BATHROOMS, IN EXTERIOR LOCATIONS...
41. PANELBOARDS SHALL HAVE COPPER FULL SIZE PHASE BUSES, NEUTRAL BUSES, AND BOLTED ON COPPER GROUNDING BUS WITH MAIN LUGS...
42. UNDERGROUND CONDUIT SHALL BE PVC, EXTERIOR EXPOSED CONDUIT SHALL BE RIGID AND INTERIOR CONDUIT SHALL BE EMT.

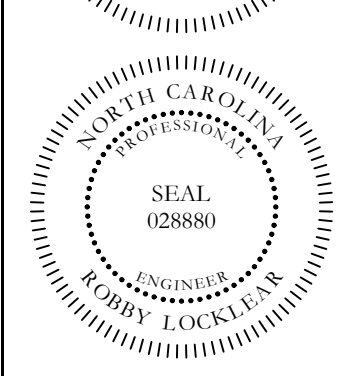
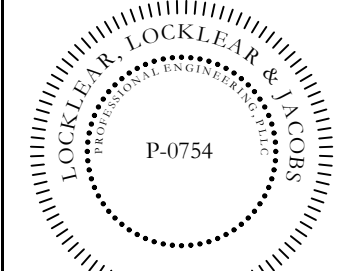
ELECTRICAL LEGEND table with columns SYMBOl and DESCRIPTION. Includes symbols for single pole switch, three way wall mounted switch, wall mounted occupancy sensor, ceiling mounted occupancy sensor, emergency exit combo light, emergency light, remote head, wall pack light fixture, 2x2' LED troffer light fixture, 2x4' LED troffer light fixture, exhaust fan, exhaust fan thermostat, main distribution panel, power panel, transformer, box & 1" conduit above ceiling, automatic transfer switch, power pack, 120V duplex receptacle, ground fault interrupter duplex receptacle, ground fault interrupter duplex receptacle w/ weatherproof in-use cover, ground fault interrupter duplex receptacle w/ weatherproof in-use cover, 30 AMP, NEMA L5-30R single, locking receptacle, quad receptacle, floor mounted GFI duplex receptacle, floor mounted quad receptacle w/ voice/data, voice/data (dual data drop & plastic floor box w/ stainless steel cover), ceiling dual data drop, ceiling mounted wireless access point, door entry - number pad, electrical door strike, push button for door entry, control transformer, above ceiling mounted junction box, hot water circulator pump, TV outlet, door entry - card swipe, junction box, wall mounted television, disconnect, floor mounted GFI quad receptacle, floor mounted voice/data, Altronix AL1012ULACMB power supply.

ELECTRICAL ABBREVIATIONS table with columns for various electrical symbols and their descriptions. Includes abbreviations for single-phase, two-conductor, three-phase, wall mounted occupancy sensor, ceiling mounted occupancy sensor, emergency exit, emergency light, remote head, wall pack light fixture, LED troffer light fixture, exhaust fan, thermostat, main distribution panel, power panel, transformer, box & 1" conduit, automatic transfer switch, power pack, 120V duplex receptacle, ground fault interrupter duplex receptacle, ground fault interrupter duplex receptacle w/ weatherproof in-use cover, 30 AMP, NEMA L5-30R single, locking receptacle, quad receptacle, floor mounted GFI duplex receptacle, floor mounted quad receptacle w/ voice/data, ceiling dual data drop, ceiling mounted wireless access point, door entry - number pad, electrical door strike, push button for door entry, control transformer, above ceiling mounted junction box, hot water circulator pump, TV outlet, door entry - card swipe, junction box, wall mounted television, disconnect, floor mounted GFI quad receptacle, floor mounted voice/data, Altronix AL1012ULACMB power supply.

DRAWING INDEX table with columns SHEET, SHEET TITLE, REV #, DATE. Lists sheets E-001, E-101, E-201, E-301 with their respective titles and revision information.



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2911 HARNETT CENTRAL RD
ANGIER, NC 27501

PROJECT INFORMATION:

Table with columns REV#, DATE, DESCRIPTION. Lists revisions 1 through 6.

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

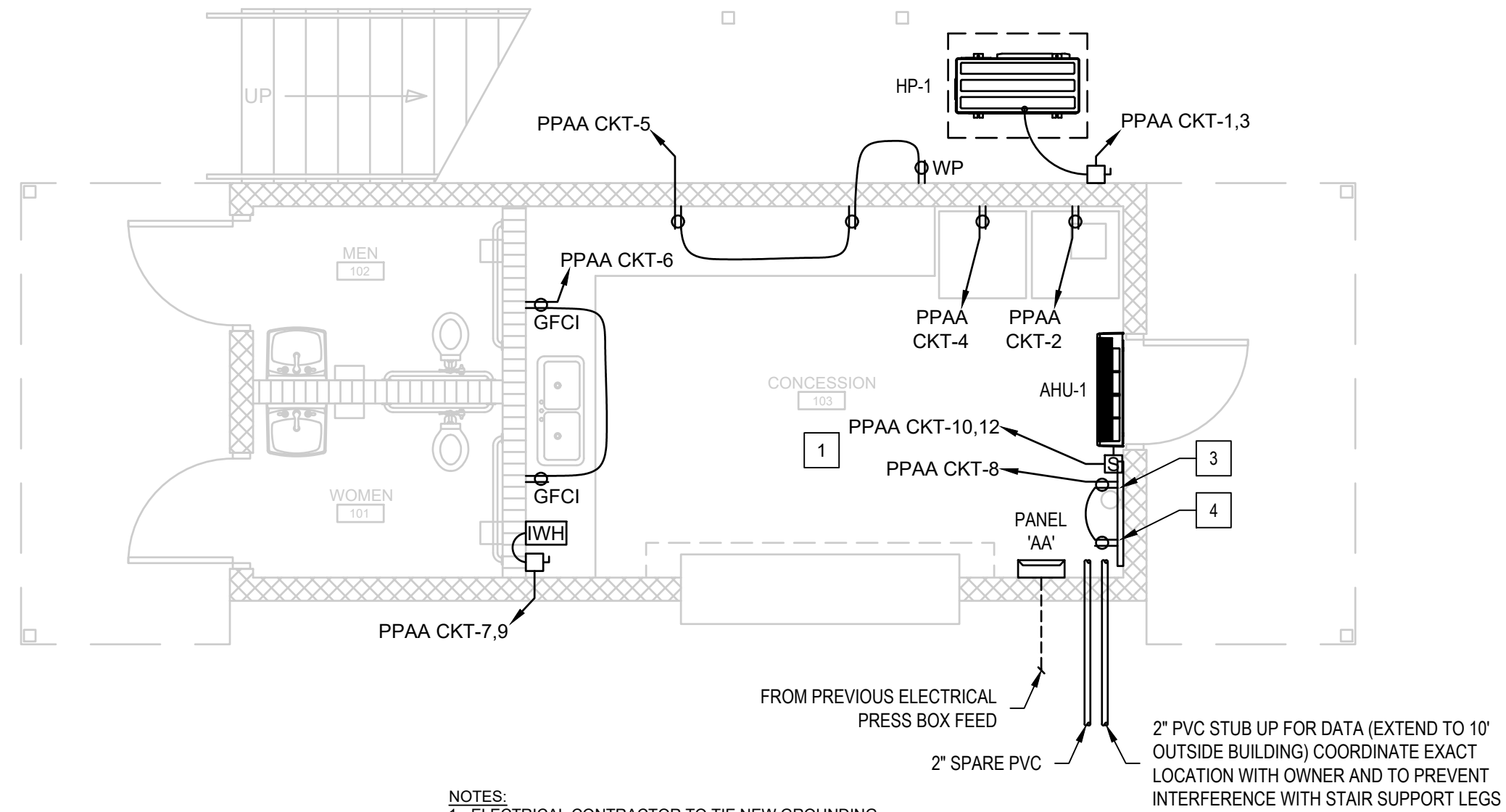
SHEET TITLE

ELECTRICAL
NOTES
LEGENDS AND
ABBREVS

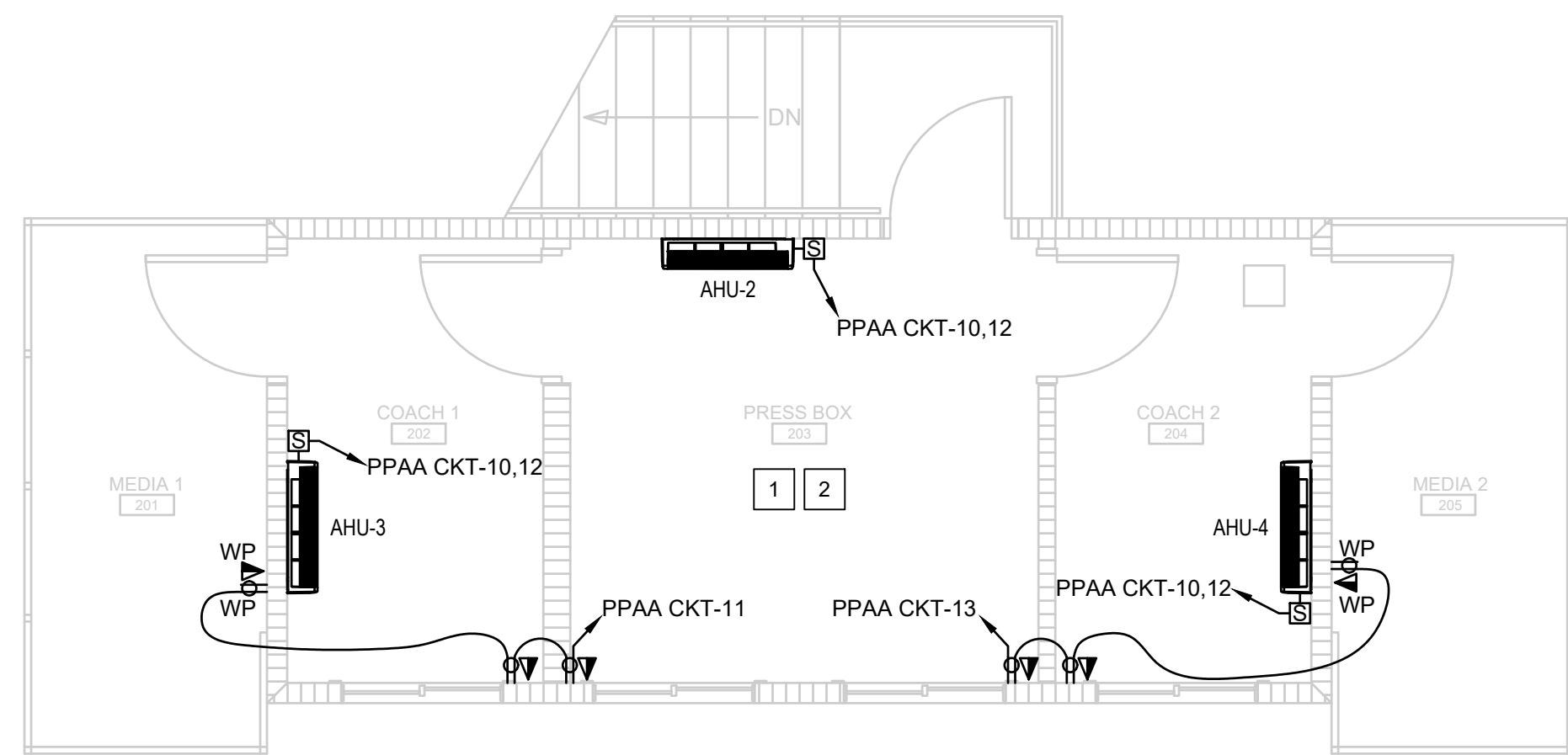
SHEET NUMBER

E-001

PROJECT# 21-1110



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



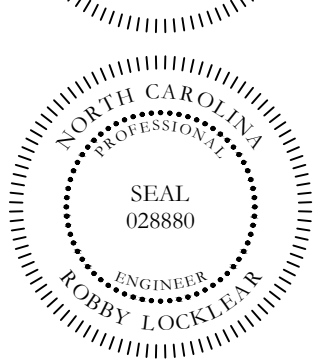
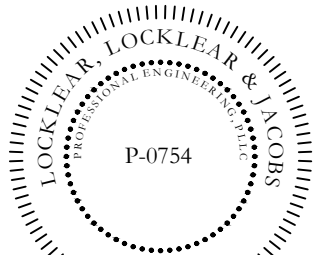
2 SECOND FLOOR ELECTRICAL POWER PLAN
 SCALE: 1/4" = 1'-0"

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:**
- OWNER TO PROVIDE AND INSTALL ALL DATA CABLES.
 - 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'x4' PAINTED FIRE RATED PLYWOOD COMM BOARD.
 - 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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 2911 HARNETT CENTRAL RD
 ANGIER, NC 27501

PROJECT INFORMATION:

REV#	DATE	DESCRIPTION
1		
2		
3		
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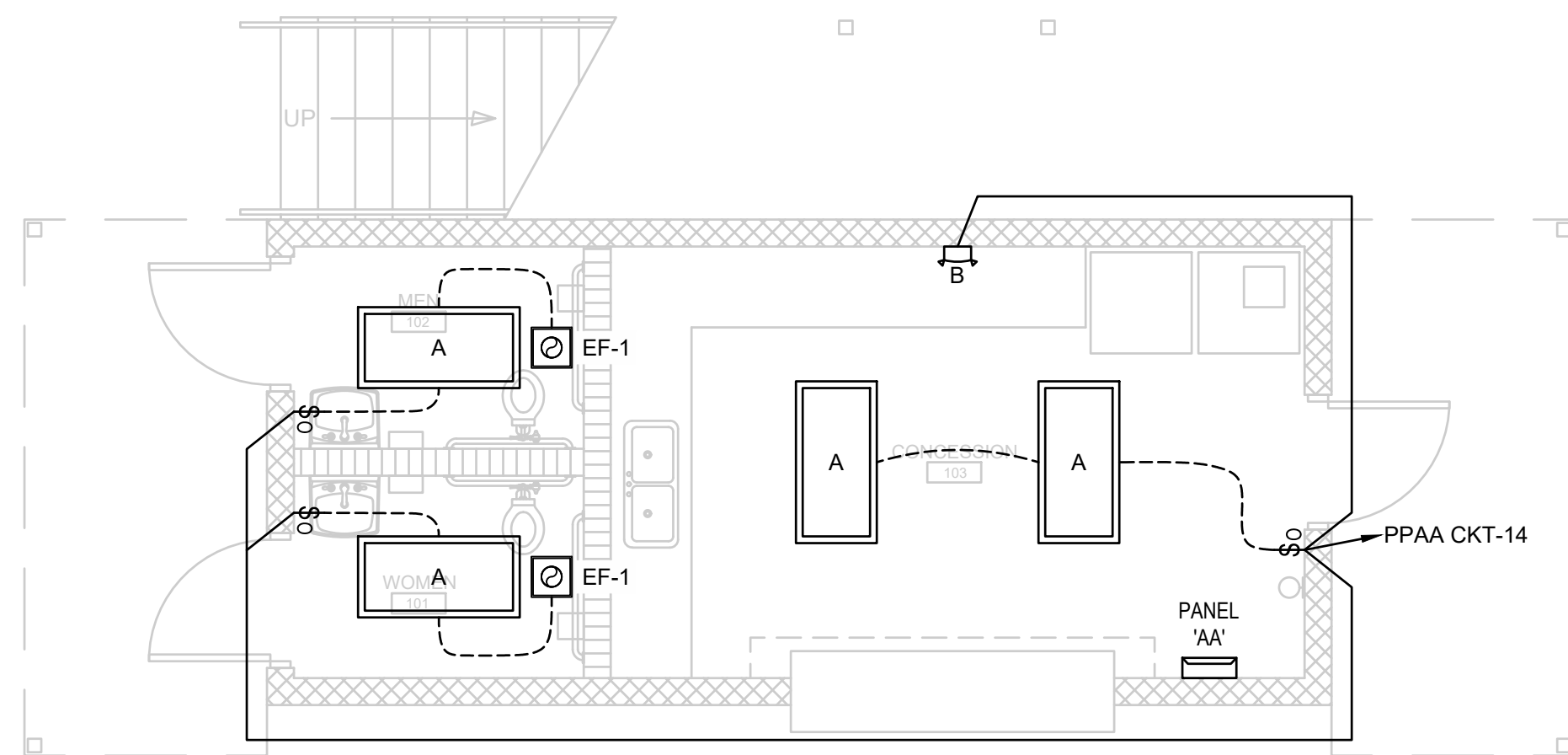
DATE: 5/9/2022
 DRAWN BY: CKD
 CHECKED BY: RL
 SHEET TITLE:

ELECTRICAL POWER PLAN

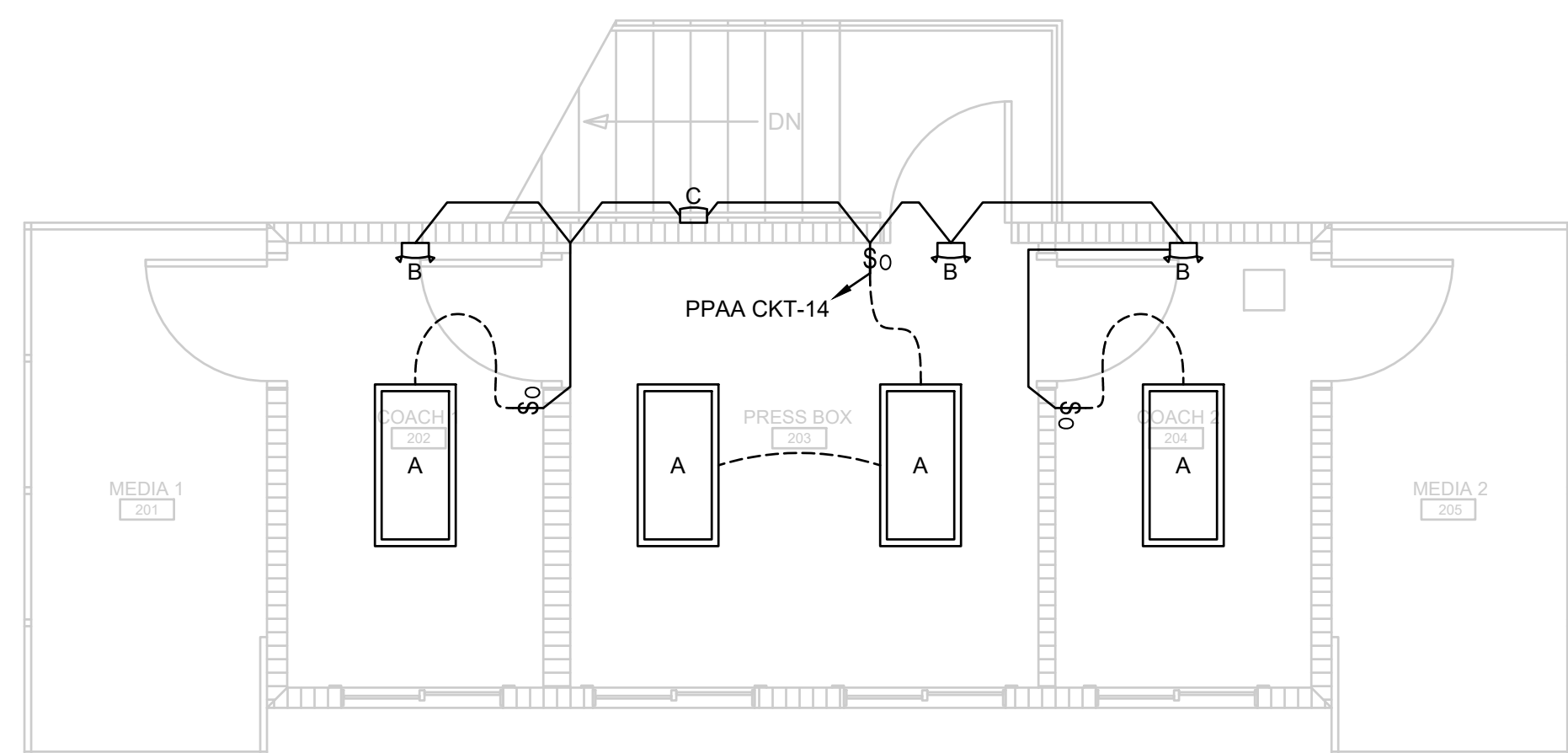
SHEET NUMBER

E-101

PROJECT# 21-11110



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

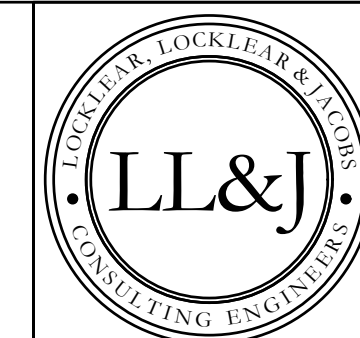
- NOTES:
1. LIGHT FIXTURES TO BE MANUFACTURED BY COOPER, LITHONIA OR METALUX.
 2. ALL LIGHTING FIXTURES SHALL BE U.L. LISTED.
 3. VERIFY ALL MOUNTING HEIGHTS WITH PRIOR TO ROUGH-IN.
 4. COORDINATE ALL COLORS/FINISH OPTIONS OF LIGHT FIXTURES WITH THE OWNER/ENGINEER PRIOR TO PURCHASING.
 5. ALL LIGHTING 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	
SYMBOL	DESCRIPTION
Ⓢ	WALL MOUNTED OCCUPANCY SENSOR
☐	100A, SINGLE PHASE 208V, PANEL 'AA'
☐	OUTDOOR EMERGENCY LIGHT
☐	EMERGENCY LIGHT
☐	2'X4' LED LIGHT FIXTURE
⊗	EXHAUST FAN

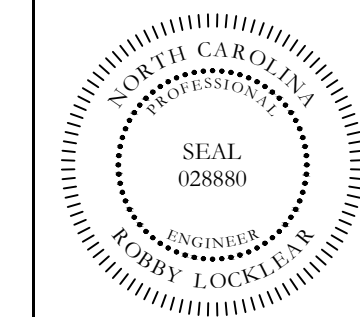
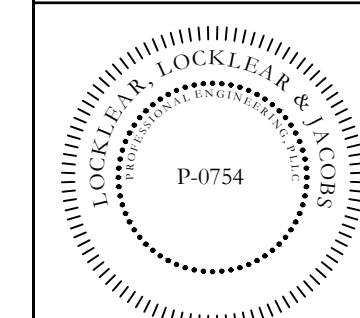
TYPICAL DEVICE MOUNTING HEIGHT	
RECEPTACLES	18" AFF
LIGHT SWITCHES	48" AFF
EXIT SIGNS	NOTE 3
EMERGENCY LIGHTS	7'-6" AFF
DATA OUTLETS	18" AFF

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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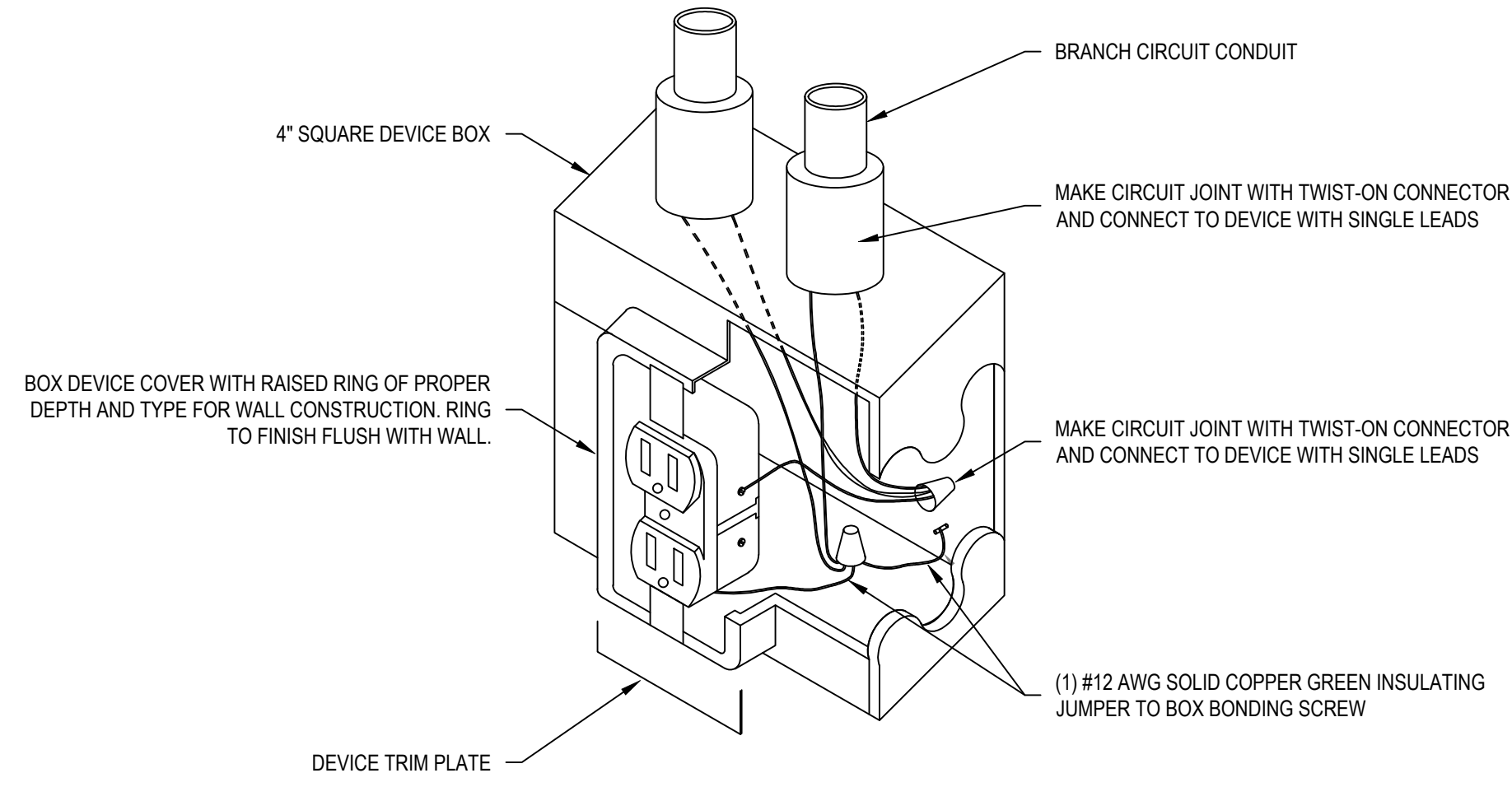


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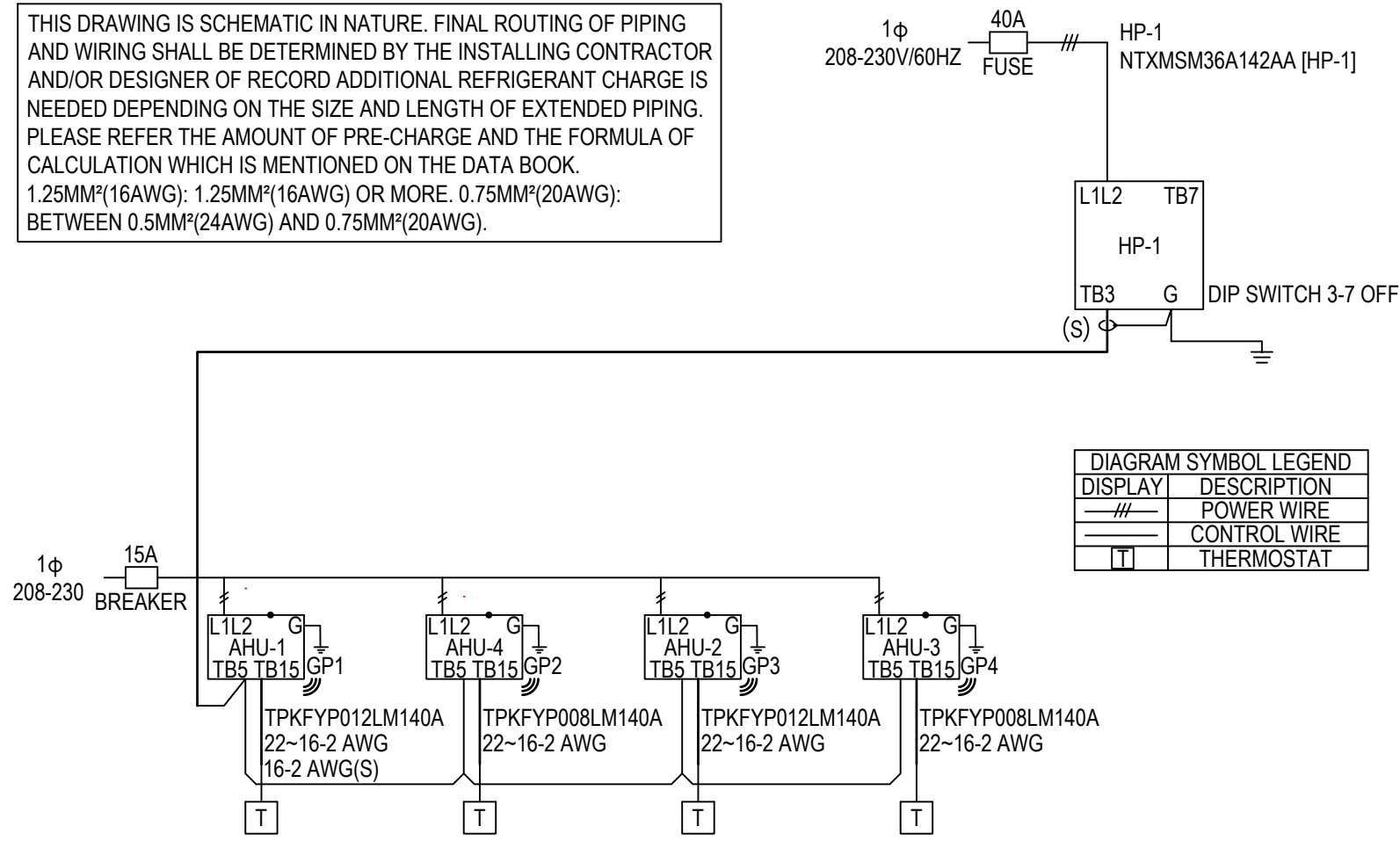
REV#	DATE	DESCRIPTION
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DATE: 5/9/2022
DRAWN BY: CKD
CHECKED BY: RL
SHEET TITLE: ELECTRICAL LIGHTING PLAN
SHEET NUMBER: E-201
PROJECT# 21-1110

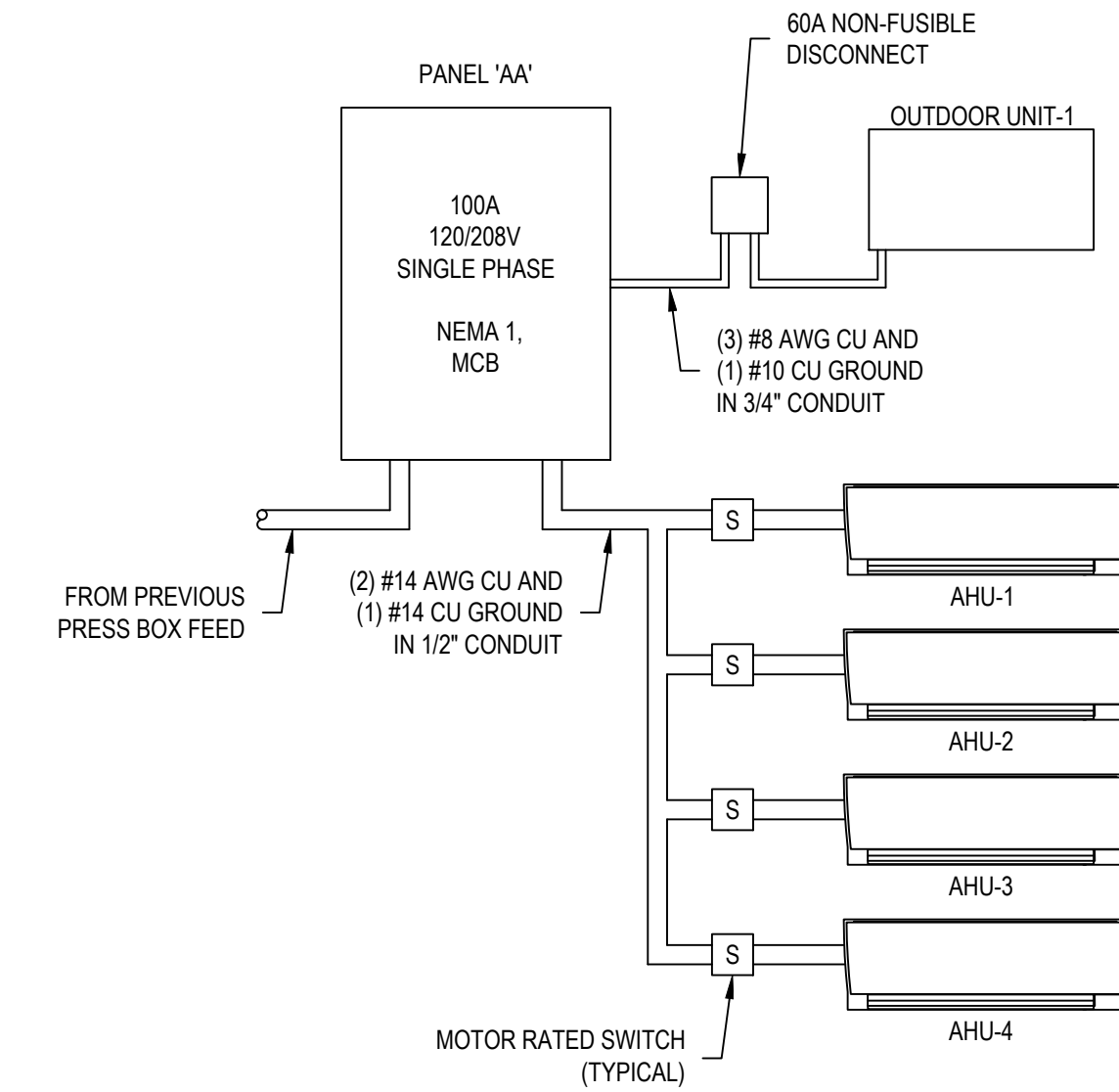
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1 RECEPTACLE GROUNDING DETAIL
NTS



2 TYPICAL DUCTLESS SYSTEM SCHEMATIC DETAIL
NTS



3 ELECTRICAL RISER DIAGRAM
NTS

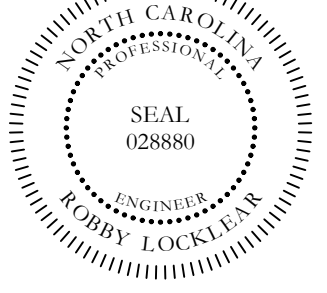
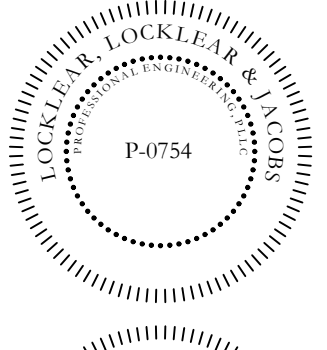
100 AMP 1-PHASE MAIN BREAKER											
PANEL 'AA'					GROUND BAR NEUTRAL						
MIN WIRE SIZE	DESCRIPTION	Watts	Bkr.	#	Leg 'A'	Leg 'B'	#	Bkr.	Watts	DESCRIPTION	
8	HEAT PUMP-1	3640	40	1	4140	4140	2	20	500	REFRIGERATOR	
12	FIRST FLOOR RECP.	360	20	5	720	4520	6	20	360	FIRST FLOOR RECP.	
8	WATER HEATER	4160	40	7	4160.5	540.5	8	20	360	COMM BOARD	
12	SECOND FLOOR RECP.	540	20	11	540.5	540.5	10	15	0.5	AIR HANDLER UNITS	
12	SECOND FLOOR RECP.	540	20	13	815	0	14	20	375	LIGHTS	
				15	0	0	16				
				17	0	0	18				
				19	0	0	20				
				21	0	0	22				
				23	0	0	24				
TOTAL Watts Leg 'A'					9935.5					Total Watts 19136	
TOTAL Watts Leg 'B'					9200.5						

BUILDING TOTAL LOADS			
TOTAL Watts Leg 'A'	9935.5	SERVICE ENTRANCE	100 AMPS
TOTAL Watts Leg 'B'	9201	CONDUCTOR SIZE	3 AWG
TOTAL WATTS	19136	GROUND SIZE	6 AWG
TOTAL AMPS	53.12	CONDUIT SIZE	1 1/2 INCH

4 PANEL 'AA' SCHEDULE
NTS



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SHEET TITLE:

ELECTRICAL
DETAILS

SHEET NUMBER

E-301

PROJECT# 21-11110

D:\Dropbox (L&J)\21-11110 Harnett County Schools Press Box\1-Drawings\Harnett Central High Press Box\MEP\21-11110 Harnett Central Press Box MEP (CKD).dwg, E-301 ELECTRICAL DETAILS.rvt