

HENDERSONVILLE CITY HALL

FIRST FLOOR ALTERATIONS

Hendersonville, NC

PROJECT TEAM

OWNER:

CITY OF HENDERSONVILLE
160 Sixth Avenue E.
Hendersonville, NC 28792
828.697.3000

adwarchitects
environmentsforlife

architecture planning interiors
2815 Coliseum Centre Drive, Suite 500
Charlotte, North Carolina 28217
p 704.379.1919 f 704.379.1920

STRUCTURAL ENGINEER:

STEWART ENGINEERING
101 N. Tryon St. Suite 1400
Charlotte, NC 28202
704.334.7925

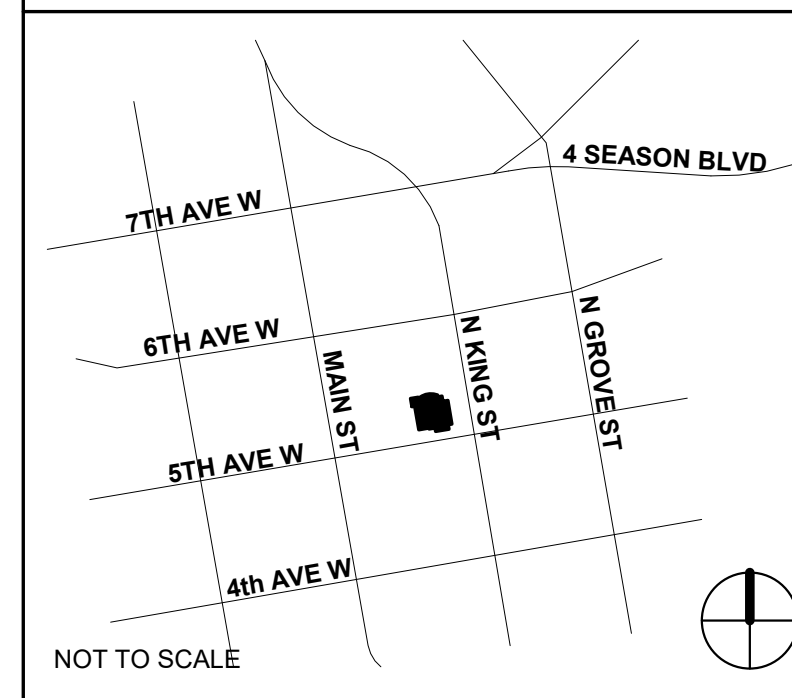
PLUMBING, MECHANICAL, ELECTRICAL, & FIRE PROTECTION:

RN&M ENGINEERS
390 Main St.
Canton, NC 28716
828.492.0677

DRAWING SYMBOLS

ELEVATION MARK		DETAIL NUMBER
		SHEET NUMBER
SECTION MARK		
DETAIL CALLOUT MARK		DETAIL NUMBER
		SHEET NUMBER
COLUMN GRID REFERENCE		
ROOM NAME & NUMBER		
REVISION CLOUD & NUMBER		
WALL TYPE		
DOOR TYPE		
WINDOW TYPE		
ELEVATION		
MATCH LINE		
FINISH MARK		

VICINITY MAP



ISSUE DATES

09.26.22	50% CONSTRUCTION DOCUMENTS
11.21.22	100% CONSTRUCTION DOCUMENTS
12.22.22	REVISION 1

EXISTING BUILDING



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SHEET NO.	SHEET TITLE	REVISION
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MECHANICAL		
M-001	MECHANICAL NOTES AND LEGENDS	
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E-300	CITY HALL LEVEL 1 ELECTRICAL POWER & RECEPTACLE PLAN	
E-400	ELECTRICAL PANEL SCHEDULE	

ABBREVIATIONS

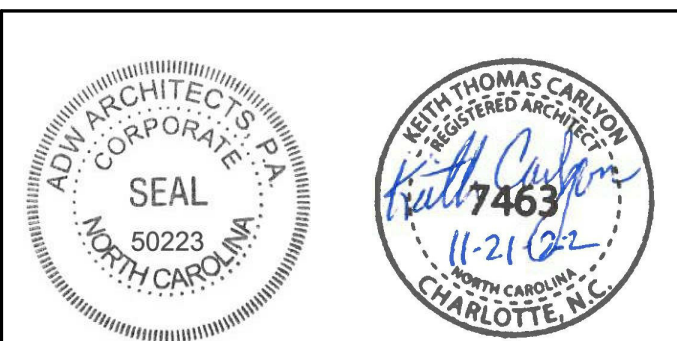
AFF	ABOVE FINISH FLOOR	ENGR	ENGINEER	JT	JOINT	RH	RIGHT HAND
APPROX	APPROXIMATE	EQ	EQUAL	LAB	LABORATORY	RHR	RIGHT HAND REVERSE
ARCH	ARCHITECTURAL	EQUIP	EQUIPMENT	LB	POUND	SD	STORM DRAIN
AUTO	AUTOMATIC	EWC	ELECTRIC WATER	LH	LEFT HAND	SHT	SHEET
AUX	AUXILIARY	COOLER		LHR	LEFT HAND REVERSE	SIM	SIMILAR
AVG	AVERAGE	EXH	EXHAUST	LL	LIVE LOAD	SPEC	SPECIFICATION
BD	BOARD	EXIST	EXISTING	LI	LIFE LOAD	SQ	SQUARE
BLDG	BUILDING	EXP	EXPANSION	MAX	MAXIMUM	SO FT	SQUARE FEET
BOT	BOTTOM	EXP JT	EXPANSION JOINT	MECH	MECHANICAL	SQ IN	SQUARE INCHES
BRG	BEARING	F	FAHRENHEIT	MEMO	MEMORANDUM	ST	STREET
BTU	BRITISH THERMAL UNITS	FAB	FABRICATE	MEZZ	MEZZANINE	STD	STANDARD
C	CELSIUS	FD	FLOOR DRAIN	MFG	MANUFACTURE(R)	STL	STEEL
CB	CATCH BASIN	FE	FIRE EXTINGUISHER	MH	MAN HOLE	STRUCT	STRUCTURAL
CJ	CONTROL JOINT	FEC	FIRE EXTINGUISHER CABINET	MIN	MINIMUM	SYM	SYMBOL
CL	CENTERLINE	FED	FEDERAL	MISC	MISCELLANEOUS	T&G	TONGUE & GROOVE
CL TO CL	CENTERLINE TO CENTERLINE	FFJ	FORMED FLOOR JOINT	MO	MASONRY OPENING	TEL	TELEPHONE
CLG	CEILING	FIG	FIGURE	MTL	METAL	TV	TELEVISION
CLR	CLEAR	FIN	FINISH	NA	NOT APPLICABLE	TYP	TYPICAL
CMU	CONCRETE MASONRY UNIT	FIN FLR	FINISH FLOOR	NEG	NEGATIVE	UNO	UNLESS NOTED OTHERWISE
CO2	CARBON DIOXIDE	FIN GRD	FINISH GRADE	NIC	NOT IN CONTRACT	VCT	VINYL COMPOSITION TILE
COL	COLUMN	FJ	FLOOR JOINT	NO	NUMBER	VERT	VERTICAL
CONC	CONCRETE	FLR	FLOOR	NTS	NOT TO SCALE	VOC	VOLATILE ORGANIC COMPOUND
CONST	CONSTRUCTION	PPM	FEET PER MINUTE	OC	ON CENTER	VOL	VOLUME
CONT	CONTINUOUS	PPS	FEET PER SECOND	OD	OUTSIDE DIAMETER	WC	WATER CLOSET
CST	CONCRETE STAIN	FR	FIRE RETARDANT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED		
CTR	CENTER	FT	FEET	OFI	OWNER FURNISHED OWNER INSTALLED		
CU FT	CUBIC FEET	GA	GAUGE	OH	OPPOSITE HAND		
CU IN	CUBIC INCH	GAL	GALLON	OPP	OPPOSITE		
CU YD	CUBIC YARD	GALV	GALVANIZE(D)	PA	PUBLIC ADDRESS		
DBL	DOUBLE	GEN	GENERAL	PL	PLATE		
DEPT	DEPARTMENT	GOVT	GOVERNMENT	PF	PREFABRICATED		
DF	DRINKING FOUNTAIN	GPH	GALLONS PER HOUR	PREFAB	PREFABRICATED		
DIA	DIAMETER	GPM	GALLONS PER MINUTE	PREFIN	PREFINISHED		
DIM	DIMENSION	GWB	GYP SUM WALL BOARD	PRELIM	PRELIMINARY		
DS	DOWN SPOUT	GYP	GYP SUM	PROJ	PROJECT		
DWG	DRAWING	GYP BD	GYP SUM BOARD	PSF	POUNDS PER SQUARE FOOT		
EA	EACH	HDW	HARDWARE	PSI	POUNDS PER SQUARE INCH		
ED	EQUIPMENT DRAIN	HGT	HEIGHT	PT	PRESSURE TREATED		
EEJ	EXTERIOR EXPANSION JOINT	HORIZ	HORIZONTAL	R (RAD)	RADIUS		
EF	EXHAUST FAN	HR	HOUR	RA	RETURN AIR		
EL	ELEVATION	HVAC	HEATING, VENTILATION, A/C	RD	ROOF DRAIN		
ELEC	ELECTRICAL	IN	INCH	REFRIG	REFRIGERATOR		
ELEM	ELEMENTARY	INFO	INFORMATION	REIN	REINFORCE		
ELEV	ELEVATOR	INSUL	INSULATION	REQD	REQUIRED		

DETAIL NUMBERING SYSTEM

20	16	12	08	04
19	15	11	07	03
18	14	10	06	02
17	13	09	05	01

ALTERNATES

1. LEVEL III BULLET RESISTANT CUSTOMER SERVICE WINDOWS.



COVER SHEET

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE: DESCRIPTION:

SHEET NUMBER
A000

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2.)

Name of Project: First Floor Alterations to Hendersonville City Hall
 Address: 160 6th Ave East, Hendersonville, NC Zip Code: 28792
 Owner/Authorized Agent: City of Hendersonville Phone # (828) 687 - 3000 E-Mail: hphale@hvinc.gov
 Owned By: City/County Private State
 Code Enforcement Jurisdiction: City County Henderson State

CONTACT: atorres@adwarchitects.com
 DESIGNER FIRM NAME LICENSE # TELEPHONE # E-MAIL
 Architectural ADW Architects 483 (704) 378-1100 atorres@adwarchitects.com
 Electrical BNM Inc. 03222 (828) 492-0677 atorres@bnm-engineers.com
 Plumbing BNM Inc. 02450 (828) 492-0677 atorres@bnm-engineers.com
 Mechanical BNM Inc. 32224 (828) 492-0677 atorres@bnm-engineers.com
 Sprinkler-Standpipe N/A () () () ()
 Structural Blount, Inc. James V. Williams 21897 (803) 703-5237 williams@blountinc.com
 Retaining Walls >5' High N/A () () () ()
 Other () () () ()
 (*Others* should include firms and individuals such as, but not limited to, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: New Construction Addition Renovation
 1st Time Interior Completion
 Shell/Core
 Phased Construction - Shell/Core
 Renovation
2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
 Level I Level II Level III
 Historic Property Change of Use
CONSTRUCTED (date): G-1928 ORIGINAL OCCUPANCY(S) (Ch. 3): Business
RENOVATED (date): 2004 CURRENT OCCUPANCY(S) (Ch. 3): Business
RISK CATEGORY (table 1604.5) Current: I II III IV
 Proposed: I II III IV

BASIC BUILDING DATA
 Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B
 (check all that apply)
 Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class I II III Wet Dry
 Fire District: No Yes (Primary) **Flood Hazard Area:** No Yes
 Special Inspections Required: No Yes

Gross Building Area:			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENO/ALTER (SQ FT)
6 th Floor			
5 th Floor	182 (STAIR TO ROOF)		
4 th Floor	4,379		
3 rd Floor	6,730		
2 nd Floor	6,730		
Mezzanine	7,555		6,460
1 st Floor	940		
Basement			
TOTAL	26,516		6,460

ALLOWABLE AREA
Primary Occupancy Classification: SELECT ONE
 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 Condition I-2 Condition I-3 Condition I-4
 Mercantile
 Residential R-1 R-2 R-3 R-4
 Storage S-1 Moderate S-2 Low High-piled
 Utility and Miscellaneous
 Parking Garage Open Enclosed Repair Garage

Accessory Occupancy Classification: N/A
Incidental Uses (Table 509): N/A
 Special Uses (Chapter 4 - List Code Sections) _____
 Special Provisions (Chapter 5 - List Code Sections) _____
Mixed Occupancy: No Yes Separation: _____ Hr. Exception: _____
 Non-Separated Use (508.3)
 The required type of construction for the building shall be determined by applying the height and 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.
 Separated Use (508.4) - _____
 See below for area 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} + \dots \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2* AREA	(C) AREA FOR FRONTAGE INCREASE ^{1,2}	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³
B	Business (B)	940	23,000	-	23,000
1	Business (B)	7,555	23,000	-	23,000
2	Business (B)	6,730	23,000	-	23,000
3	Business (B)	6,730	23,000	-	23,000
4	Business (B)	4,379	23,000	-	23,000

¹ Frontage area increases from Section 506.3 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (F)
 b. Total Building Perimeter = _____ (P)
 c. Ratio (F/P) = _____ (F/P)
 d. W = Minimum width of public way = _____ (W)
 e. Percent of frontage increase $I_f = 100 [F/P - 0.25] \times W/30 = \dots$ (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4
⁵ Frontage increase is based on the unspinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	55'	52' (EXISTING)	
Building Height in Stories (Table 504.4)	4	2 (EXISTING)	

¹ Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.
² The maximum height of air traffic control towers must comply with Table 412.3.1
³ The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, masts	0	0	0	N/A	N/A	N/A	N/A
Roofing Walls	0	0	0	N/A	N/A	N/A	N/A
Exterior	0	0	0	N/A	N/A	N/A	N/A
North	> 30	0	0	N/A	N/A	N/A	N/A
East	> 30	0	0	N/A	N/A	N/A	N/A
West	> 15	1	1	N/A	N/A	N/A	N/A
South	> 30	0	0	N/A	N/A	N/A	N/A
Interior	0	0	0	N/A	N/A	N/A	N/A
Nonbearing Walls and Partitions	0	0	0	N/A	N/A	N/A	N/A
Exterior walls	> 30	0	0	N/A	N/A	N/A	N/A
North	> 30	0	0	N/A	N/A	N/A	N/A
East	> 30	0	0	N/A	N/A	N/A	N/A
West	> 30	0	0	N/A	N/A	N/A	N/A
South	> 30	0	0	N/A	N/A	N/A	N/A
Interior walls and partitions	0	0	0	N/A	N/A	N/A	N/A
Floor Construction	0	0	0	N/A	N/A	N/A	N/A
Including supporting beams and joists	0	0	0	N/A	N/A	N/A	N/A
Floor Ceiling Assembly	0	0	0	N/A	N/A </tr		

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES)	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
19.3' (West & East)	UP, NS	25%	7%
>30' (North & South)	UP, NS	No Limit	-

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes ****EXISTING****
 Exit Signs: No Yes ****EXISTING****
 Fire Alarm: No Yes
 Smoke Detection Systems: No Yes Partial
 Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A002
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations (if not on the site plan)
 Exterior wall opening area with respect to distance to assumed property lines (705.8)
 Occupancy types for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit access travel distances (1017)
 Common path of travel distances (1006.2.1 & 2006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
 Actual occupant load for each exit door
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation and supporting construction for fire rated fire partition/smoke barrier.
 Location of doors with panic hardware (1010.1.10) (SEE A002)
 Location of doors with delayed egress locks and the hardware (1010.1.9.7)
 Location of doors with electromagnetic egress locks (1010.1.9.9)
 Location of doors equipped with hold-open devices
 Location of emergency escape windows (1030)
 The square footage of each fire area (202)
 The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

Section/Tab/Note	Title

ACCESSIBLE DWELLING UNITS (SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS PROVIDED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A					

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	REGULAR WITH 5' ACCESS		VAN ACCESSIBLE		TOTAL # ACCESSIBLE SPACES PROVIDED
			REGULAR	ADDITIONAL	REGULAR	ADDITIONAL	
TOTAL							

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) **EXISTING**

USE	WATERCLOSETS			URINALS			LAVATORIES			SHOWERS			DRINKING FOUNTAINS		
	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	MALE	FEMALE	UNSEX	TUBS	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE	
SPACE	2	4	-	2	3	3	-	-	-	-	1	1	-	-	
1 ST FLOOR	2	2	-	-	1	1	-	-	-	-	1	1	-	-	

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, SCO, DPI, DHHS, ICC, etc., describe below)

ENERGY SUMMARY **EXISTING**

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation 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.
 Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)
 Exempt Building: No Yes (Provide Code or Statutory reference) _____
Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive
 (If "Other" specify source here) _____

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Skylights in each assembly: _____
 U-Value of skylight: _____
 Total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Openings (windows or doors with glazing)
 U-Value of assembly: _____
 Solar heat gain coefficient: _____
 Projection factor: _____
 Door R-Values: _____

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: _____
 Horizontal/Vertical requirement: _____
 Slab Heated: _____

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)**

DESIGN LOADS: **EXISTING**

Importance Factors: Snow (Is) _____
 Seismic (Is) _____
Live Loads: Roof _____ psf
 Mezzanine _____ psf
 Floor _____ psf
Ground Snow Load: _____ psf
Wind Load: Ultimate Wind Speed _____ mph (ASCE-7)
 Exposure Category _____

SEISMIC DESIGN CATEGORY: A B C D
 Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration S_e _____ %g S_s _____ %g
Site Classification (ASCE 7): A B C D E F *2002 CODE
 Data Source: Field Test Presumptive Historical Data
Basic structural system
 Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No *2002 CODE

LATERAL DESIGN CONTROL: Earthquake Wind *2002 CODE
SOIL BEARING CAPACITIES: Field Test (provide copy of test report) _____ 2000 psf *2002 CODE
 Presumptive Bearing capacity _____ psf
 Pile size, type, and capacity _____

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)**

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT **EXISTING**

Thermal Zone
 winter dry bulb: _____
 summer dry bulb: _____
Interior design conditions
 winter dry bulb: _____
 summer dry bulb: _____
 relative humidity: _____
Building heating load: _____
Building cooling load: _____
Mechanical Spacing Conditioning System
 Unitary
 description of unit: _____
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____
 Boiler
 Size category. If oversized, state reason: _____
 Chiller
 Size category. If oversized, state reason: _____
List equipment efficiencies: _____

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)**

ELECTRICAL SUMMARY **EXISTING**

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 _____
 number of lamps in fixture _____
 ballast type used in the fixture _____
 number of ballasts in fixture _____
 total wattage per fixture _____
 total interior wattage specified vs. allowed (whole building or space by space) _____
 total exterior wattage specified vs. allowed _____

Additional Efficiency Package Options (When using the 2018 NCC/C; not required for ASHRAE 90.1)
 C406.2 More Efficient Mechanical Equipment
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

adwarchitects
 environments for life
 architecture planning interiors
 2815 COLISEUM CENTRE DRIVE
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FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

CODE INFORMATION - APPENDIX B

DATE: 11.21.22
 PROJECT NO: 22029

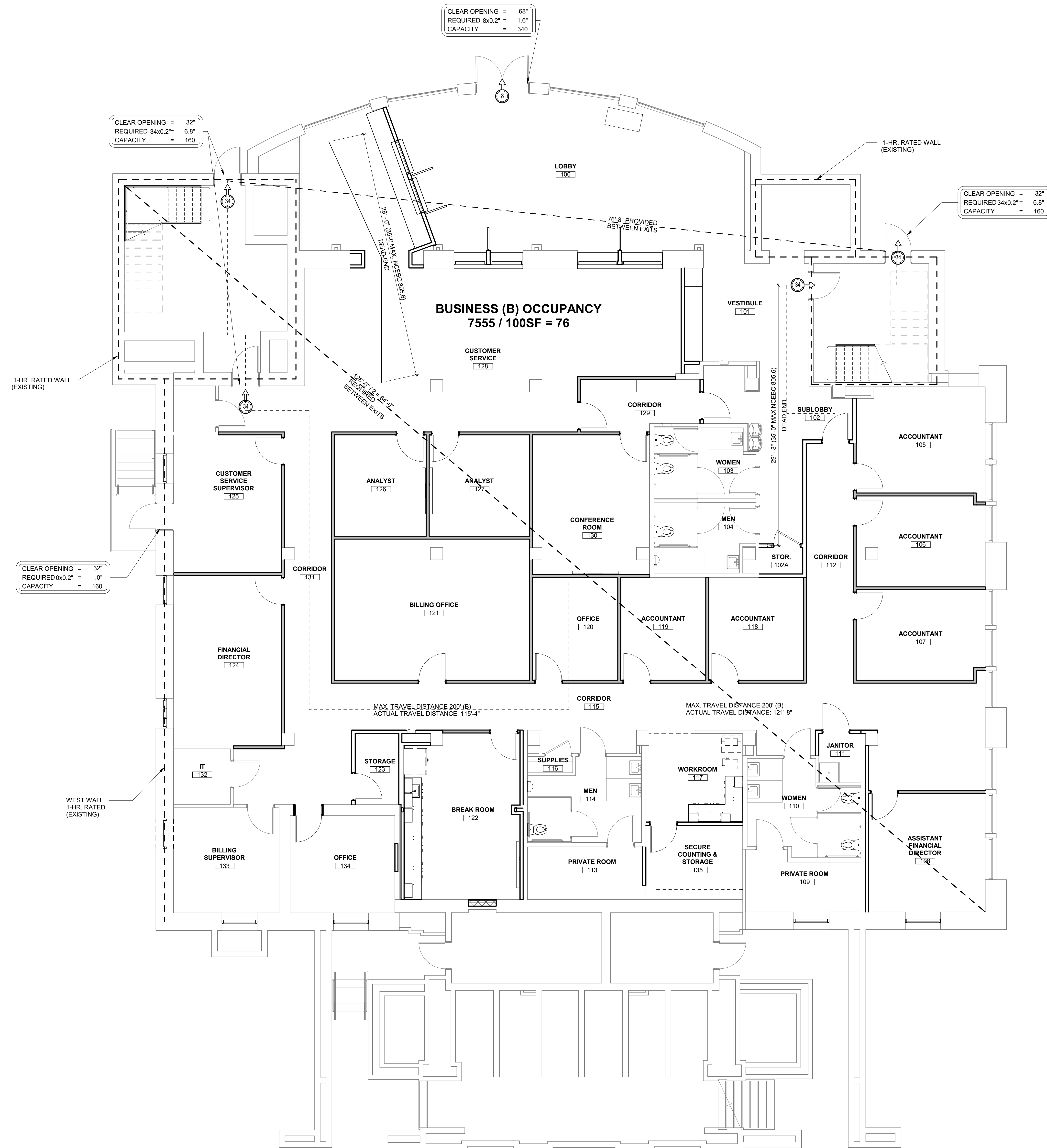
REVISIONS
 NO: DATE: DESCRIPTION:
 1 12.22.22 REVISION 1

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SHEET NUMBER
A001

PLUMBING FIXTURE COUNT:	
TOTAL OCCUPANTS: 76 M: 38 W: 38	REQUIRED WC (MALES) = 1.52 = 2 WC (FEMALES) = 1.52 = 2 WC (UNISEX) = 0 TOTAL WC REQUIRED: 4
PER NC STATE BUILDING CODE TABLE 2902.1 B OCCUPANCY B BUSINESS: 76 TOTAL (38 MALE/38 FEMALE) MALES = WC: 1 PER 25 1ST 50 (1.52) FEMALES = WC: 1 PER 25 1ST 50 (1.52) MALES = LAV: 1 PER 40 1ST 80 (.95) FEMALES = LAV: 1 PER 40 1ST 80 (.95) DRINKING FOUNTAIN = 1 PER 100 (0.76) 1 SERVICE SINK	LAV (MALES) = .95 = 1 LAV (FEMALES) = .95 = 1 LAV (UNISEX) = 0 SHOWERS = 0 DRINKING FOUNTAINS = .76 = 1 SERVICE SINK = 1
	PROVIDED: WC (MALES) = 2 URINALS (MALES) = 2 WC (FEMALES) = 4 WC (UNISEX) = 0 LAV (MALES) = 3 LAV (FEMALES) = 3 LAV (UNISEX) = 0 SHOWERS/TUBS = 0 DRINKING FOUNTAINS = 2 SERVICE SINK = 1



FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

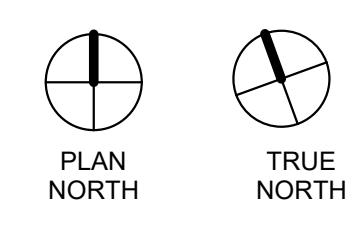
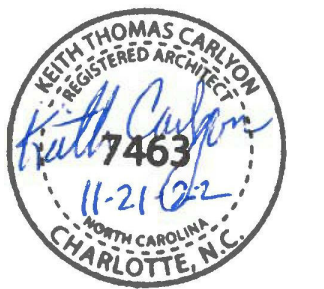
HENDERSONVILLE, NC

LIFE SAFETY PLAN

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE: DESCRIPTION:

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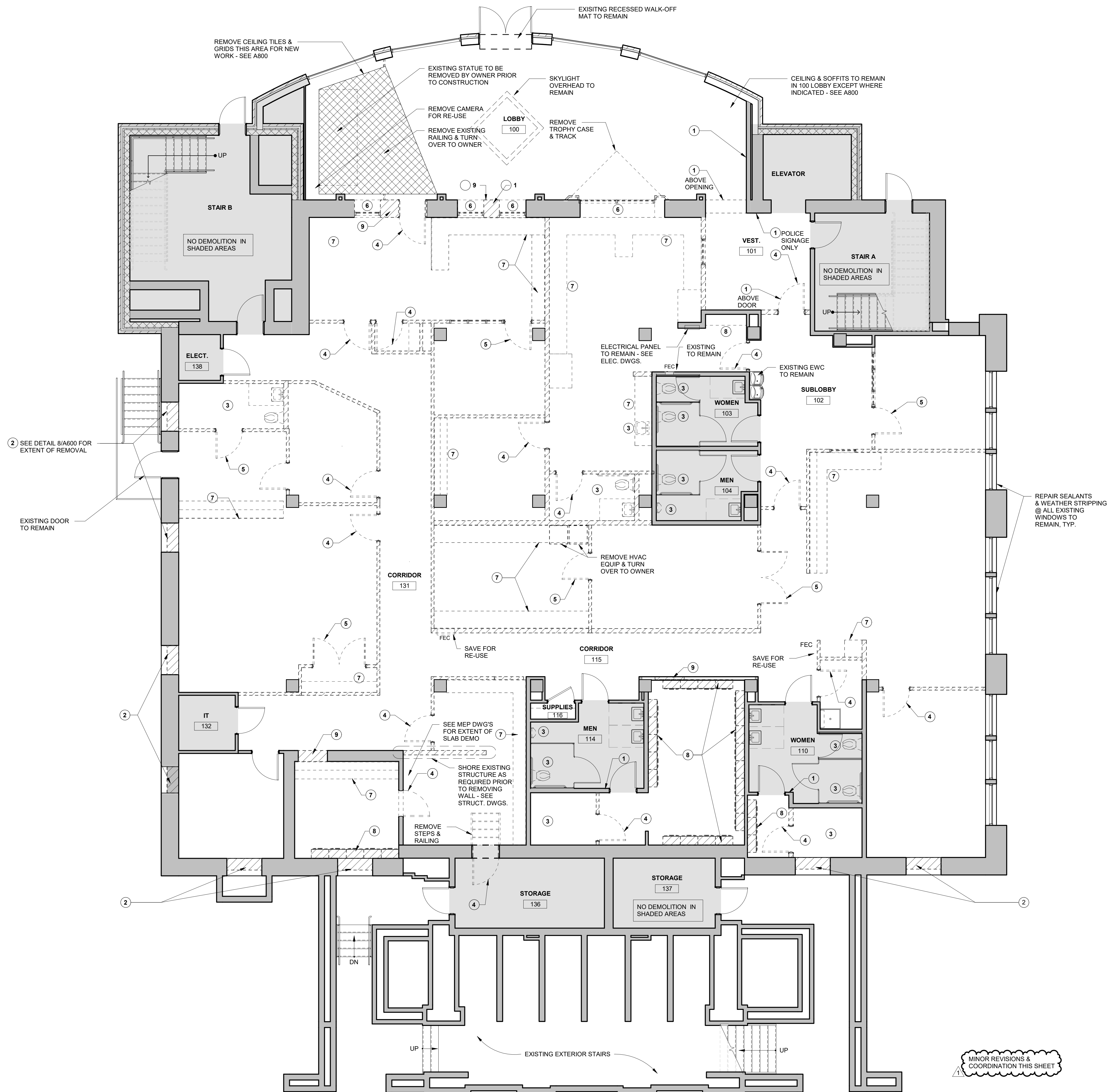
A002

GENERAL DEMOLITION NOTES

- REFER TO STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK. COORDINATE ALL DEMOLITION WITH FINAL DESIGN. THE CONTRACTOR WILL BE RESPONSIBLE TO DETERMINE IF OTHER ITEMS WILL NEED TO BE REMOVED OR MODIFIED TO COMPLETE THE NEW WORK.
- DASHED LINES & HATCHED AREAS ON DEMOLITION DRAWINGS INDICATE ITEMS TO BE REMOVED.
- OWNER RESERVES THE RIGHT OF REFUSAL ON ALL PRODUCTS BEING REMOVED. CONTRACTOR TO DISPOSE OF ALL PRODUCTS REFUSED.
- ITEMS INDICATED TO BE REMOVED (AND NOT SAVED) SHALL BE RECYCLED TO THE GREATEST EXTENT POSSIBLE. ITEMS THAT CANNOT BE RECYCLED SHALL BE DISPOSED OF OFF SITE AS REQUIRED BY LOCAL, STATE, AND FEDERAL LAWS. ALL MATERIAL REMOVED SHALL BE DOCUMENTED.
- THE CONTRACTOR SHALL OBTAIN NECESSARY DEMOLITION PERMITS PRIOR TO ANY DEMOLITION.
- THE CONTRACTOR SHALL NOTIFY ALL PERTINENT UTILITY COMPANIES NO LESS THAN 72 HOURS PRIOR TO ANY DEMOLITION WORK.
- NO HAZARDOUS MATERIAL IS KNOWN TO BE PRESENT IN THE JOB SITE. IF HAZARDOUS MATERIAL IS ENCOUNTERED, CONTRACTOR SHALL IMMEDIATELY CEASE THE WORK IN THE AREA, SECURE THE INVOLVED AREA TO PREVENT INADVERTENT CONTAMINATION OR EXPOSURE AND NOTIFY THE DESIGNER AND OWNER.
- OTHER THAN WITHIN ALTERATION AREAS, CONTRACTOR TO PERFORM ANY AND ALL WORK AFFECTING EGRESS FOR THE BUILDING AFTER OCCUPIABLE HOURS. CONTRACTOR SHALL COORDINATE SCHEDULING OF SUCH WORK WITH OWNER.
- CONTRACTOR SHALL PROTECT EXISTING CONSTRUCTION WHICH IS TO REMAIN OR INDICATED TO BE SALVAGED. ANY DAMAGE WITHIN THE LIMITS OF CONSTRUCTION MUST BE REPAIRED AS DESCRIBED IN THE DOCUMENTS. NOTIFY ARCHITECT IMMEDIATELY OF ANY SIGNIFICANT EXISTING DAMAGE.
- CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL OF THE DEMOLITION AREA.
- CONTRACTOR TO DISCONNECT ANY EQUIPMENT REMAINING IN DEMOLITION AREA & TURN OVER TO OWNER.
- PROVIDE INTERIOR AND EXTERIOR SHORING, BRACING, OR SUPPORT AS NECESSARY TO PREVENT MOVEMENT, SETTLEMENT, OR DAMAGE TO STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL METHODS OF STABILIZATION OF THE EXISTING AND ADJACENT STRUCTURES DURING AND AFTER DEMOLITION OF THE BUILDING, INCLUDING ANY ADDITIONAL BRACING NOT SPECIFICALLY INDICATED ON THE DRAWINGS, AS REQUIRED BY CONDITIONS IN THE FIELD.
- EXISTING WALLS AND CONSTRUCTION SHALL BE REMOVED IN THEIR ENTIRETY TO EXTENT INDICATED ON THE DRAWINGS AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. WHERE WALLS AND PARTITIONS ARE INDICATED TO BE DEMOLISHED, REMOVE ALL FRAMING, SUB-FRAMING, INSULATION, SUBSTRATE, WALL BOARD, PANELING AND TRIM AS APPLICABLE. EXISTING WALLS (OR PORTIONS OF WALLS) TO BE REMOVED SHALL BE CUT FLUSH WHERE INTERSECTED WITH WALLS TO REMAIN. REMAINING WALLS TO BE PATCHED AND FINISHED SMOOTH. NEW OPENINGS TO BE CUT IN EXISTING WALLS SHALL BE SAW-CUT AT LOCATIONS INDICATED, TO THE HEIGHT AND WIDTH INDICATED, AND SMOOTHED/PATCHED AS NECESSARY FOR INSTALLATION OF FRAMES. NEW LINTELS SHALL BE INSTALLED TO SUPPORT EXISTING WALL CONSTRUCTION ABOVE AS INDICATED ON THE DRAWINGS, OR IF NOT INDICATED, AS REQUIRED FOR NEW WALL CONSTRUCTION PER STRUCTURAL DRAWINGS.
- CONTRACTOR TO DISCONNECT ANY EQUIPMENT REMAINING IN DEMOLITION AREA & TURN OVER TO OWNER.
- REMOVE MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES, EQUIPMENT, AND DISTRIBUTION SYSTEMS TO THE EXTENT INDICATED AND AS REQUIRED TO ACCOMMODATE NEW CONSTRUCTION. CAP AND/OR RECONNECT ANY UTILITIES SERVING OTHER PORTIONS OF THE BUILDING OR ADJACENT PROPERTIES ACCORDING TO THE METHODS REQUIRED BY THE APPROPRIATE UTILITY AUTHORITY AND/OR AS INDICATED ON THE DRAWINGS.
- PATCHING IS REQUIRED WHERE DEMOLITION OF ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL, AND STRUCTURAL SYSTEMS LEAVES HOLES, VOIDS, OR UNFINISHED CONDITIONS AT FINISHED WALLS, FLOORS, AND CEILINGS. FILL ALL EXISTING CONCRETE FLOOR AND CONCRETE WALL PENETRATIONS RESULTING FROM PIPING AND CONDUIT REMOVAL WITH NON-SHRINK GROUT, READY TO RECEIVE FINAL FLOOR OR WALL FINISH.
- REPAIR EXISTING CONCRETE FLOOR SLABS AND PATCH, LEVEL AND REPAIR FLOOR SLABS AS REQUIRED FOR INSTALLATION OF NEW FLOORING. WHERE EXISTING CMU WALLS HAVE BEEN REMOVED, GRIND EDGES OF DEPRESSIONS AS NECESSARY TO PRODUCE A SMOOTH TRANSITION BETWEEN EXISTING SLABS AND NEW INFILL.
- PATCH AND REPAIR EXISTING SLAB, FOR CRACKS OTHER THAN THOSE DETERMINED TO BE HAIRLINE CRACKS (0.01 INCH), SAW CUT THE FULL LENGTH TO RECEIVE CAULK, FILL W/BACKER ROD & SILICONE SEALANT.
- CLEAN AND PATCH ALL REMAINING WALL, FLOOR AND CEILING SURFACES DAMAGED BY DEMOLITION TO A CONDITION REQUIRED TO RECEIVE NEW CONSTRUCTION, OR IF TO REMAIN EXPOSED, TO A CONDITION COMPARABLE TO NEW CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, TOOTHING IN NEW CONCRETE MASONRY TO REPLACE EXPOSED UNITS DAMAGED BEYOND REPAIR BY DEMOLITION, LEVELING (OR TAPERING) FLOOR SURFACE BETWEEN EXISTING FLOOR FINISH AT LOCATIONS WALLS ARE REMOVED, AND PATCHING SMOOTH AREAS OF EXPOSED CONCRETE MASONRY STRUCTURE DAMAGED BY REMOVAL OF ADJACENT CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL EXTRANEOUS HANGERS, CONDUITS, AND OTHER ITEMS THAT HAVE BEEN ABANDONED.
- REMOVE AND SALVAGE ANY EXISTING WALL MOUNTED LETTERING AND SIGNAGE UNLESS NOTED OTHERWISE. RETURN TO OWNER.
- CONTRACTOR TO USE GROUND PENETRATING RADAR PRIOR TO CUTTING THE FLOOR SLAB TO IDENTIFY POTENTIAL HAZARDS OR UNFORESEEN UTILITIES.
- REMOVE EXISTING CEILING PANELS, CEILING GRIDS & SOFFITS IN ALL AREAS EXCEPT WHERE NO DEMOLITION OCCURS AND WHERE INDICATED TO REMAIN.
- REMOVE EXISTING FLOOR FINISHES IN ALL AREAS EXCEPT WHERE NO DEMOLITION OCCURS & WHERE INDICATED TO REMAIN.

KEYED DEMO NOTES:

- REMOVE EXISTING SIGNAGE & TURN OVER TO OWNER. REPAIR WALLS AS REQUIRED FOR NEW PAINT.
- REMOVE LIMESTONE PANEL & 8" CMU BACKUP INFILL AT EXISTING EXTERIOR OPENING FOR INSTALLATION OF NEW WINDOWS. REMOVE RUST FROM EXISTING LINTELS & RE-PAINT TO MATCH MATERIAL ABOVE.
- REMOVE EXISTING FIXTURES & PLUMBING.
- REMOVE EXISTING DOOR & FRAME. SAVE FOR RE-USE. TURN OVER ANY UNUSED DOORS TO OWNER.
- REMOVE EXISTING DOOR & FRAME. SAVE DOOR FOR RE-USE. TURN OVER ANY UNUSED DOORS & FRAMES TO OWNER.
- REMOVE WINDOW & WALL BELOW TO FLOOR.
- REMOVE EXISTING CABINETS & COUNTERTOPS.
- REMOVE LOCKERS & TURN OVER TO OWNER.
- REMOVE PORTION OF WALL FOR NEW OPENING. SEE STRUCTURAL DRAWINGS FOR NEW LINTEL.



FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

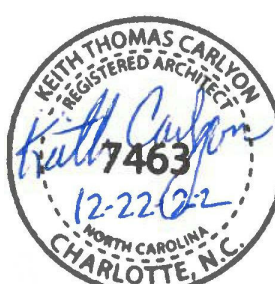
DEMOLITION PLAN

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS

NO:	DATE:	DESCRIPTION:
1	12.22.22	REVISION 1

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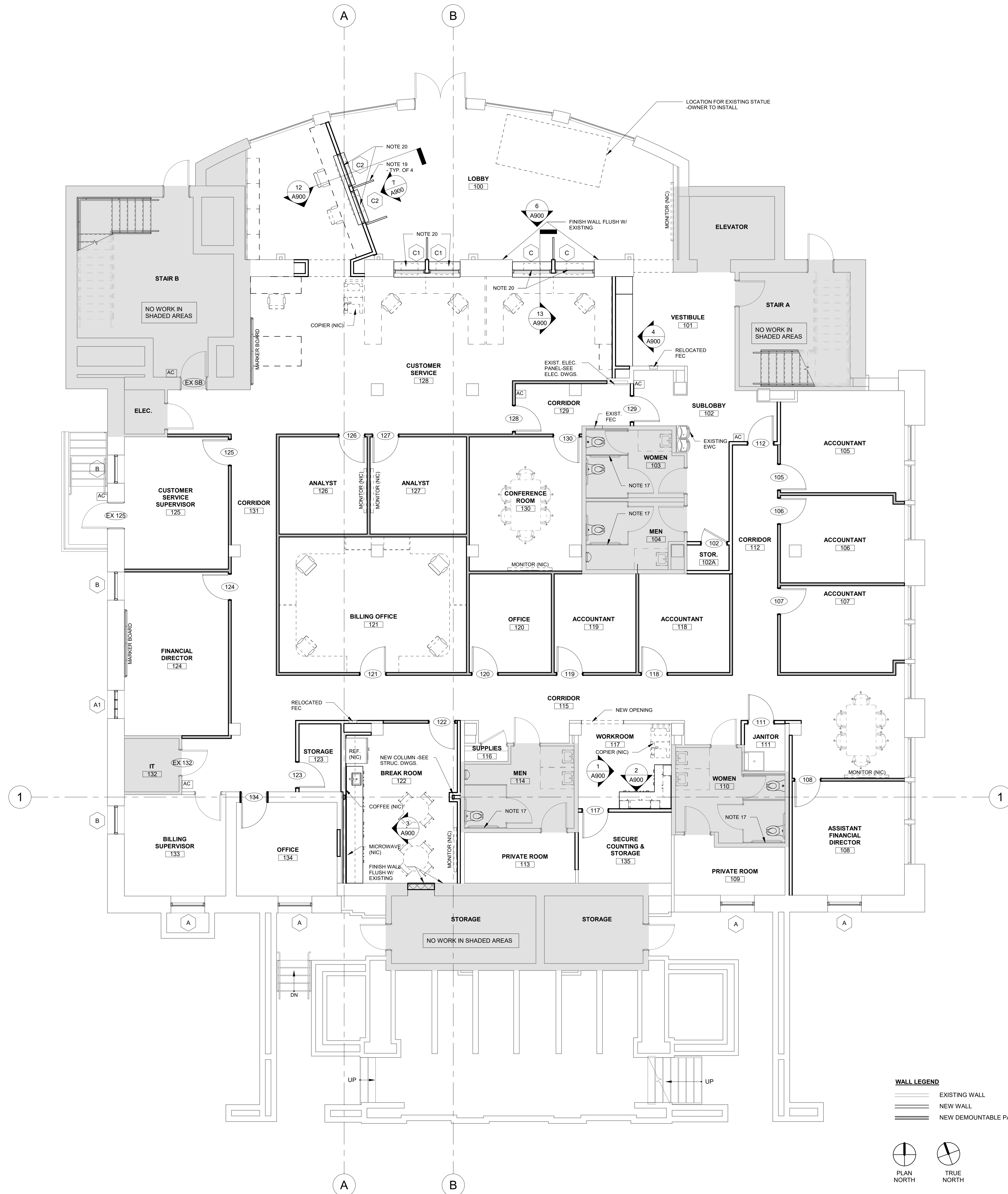


SHEET NUMBER

AD100

GENERAL SHEET NOTES

- ALL ARCHITECTURAL COMPONENTS ARE TO BE ATTACHED AS REQUIRED BY ASCE 7-05 CHAPTER 13 SEISMIC DESIGN FOR NONSTRUCTURAL COMPONENTS. EACH INDIVIDUAL CONTRACTOR RESPONSIBLE FOR THE COMPONENT MUST PROVIDE PROJECT SPECIFIC DESIGN AND DOCUMENTATION PREPARED BY A LICENSED ENGINEER. CHAPTER 13 DEFINES THE FORCE REQUIRED TO SUPPORT THE COMPONENT FOR THE ANCHORAGE AND BRACING. THE COST OF PREPARING THIS INFORMATION AND DESIGN SHALL BE INCLUDED IN EACH CONTRACTOR'S BID PROVIDING THE COMPONENT.
- FIELD VERIFY ALL CONDITIONS. GENERAL CONTRACTOR MUST NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK AFFECTED BY SUCH DISCREPANCY.
- DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, OBTAIN CLARIFICATION FROM ARCHITECT.
- PROVIDE BLOCKING WITHIN STUD WALLS AS REQUIRED FOR SUPPORT OF CABINETS, SHELVING, WALL STOPS, COUNTERTOPS, MARKERBOARDS, TACKBOARDS, AV EQUIPMENT AND SIMILAR.
- ALL INTERIOR DIMENSIONS ARE TO FACE OF STUD OR CENTER OF COLUMN U.N.O. CLEAR DIMENSIONS ARE FROM FINISH FACE TO FINISH FACE.
- SEE A600 FOR WINDOW TYPES AND OTHER DETAILS.
- SEE A101 FOR WALL TYPES, INTERIOR DIMENSIONS, AND OTHER INFORMATION NOT SHOWN ON THIS PLAN.
- CAREFULLY REVIEW PLANS AND COORDINATE ALL ELECTRICAL AND PLUMBING WORK WITHIN CMU WALLS. ALL CONDUIT WHERE CMU IS VISIBLE SHALL BE WITHIN THE CMU WALLS. SURFACE MOUNTED CONDUIT WILL BE ACCEPTED ONLY WHERE NOT VISIBLE AND COVERED UP BY OTHER FINISHES.
- COORDINATE AND ALIGN ALL FINISH FACES OF WALLS SO THAT THEY CAN ALIGN - CONTRACTOR SHOULD ACCOUNT FOR EXTRA LAYERS OF GWB, STUD SIZE, & FURRING
- DURING CONSTRUCTION ALL REQUIREMENTS OF CHAPTER 14 OF THE NCFPC MUST BE MET.
- PORTABLE FIRE EXTINGUISHERS ARE REQUIRED ON SITE DURING CONSTRUCTION.
- ALL FIRE RATED CONSTRUCTION SHALL COMPLY WITH THE NCSBC & CHAPTER 7 OF THE NCFPC.
- WRAP ALL COLUMNS WITH 1/2" GWB WHERE VISIBLE. WRAP METAL FURRING/FRAMING AND GWB AROUND COLUMN AS TIGHT AS POSSIBLE.
- FEC= FIRE EXTINGUISHER CABINET. SEE SPECIFICATIONS. INSTALL SO HANDLE IS 40" - 48" AFF BUT TOP OF CABINET DOES NOT EXCEED 60" AFF. COORDINATE / VERIFY WITH AUTHORITY HAVING JURISDICTION.
- AC= ACCESS CONTROL LOCATION SEE A600 & ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION
- ALL NOTES ARE TYPICAL UNLESS NOTED OTHERWISE.
- GC TO INSTALL 18" VERTICAL GRAB BAR EQUAL TO BOBRICK B6806-18 @ 48" AFF TO CENTERLINE. FINISH TO MATCH EXISTING GRAB BARS.
- VERIFY FINAL LOCATIONS OF ITEMS NOT IN CONTRACT(NIC) & OWNER FURNISHED (OFCI) WITH OWNER.
- FREE-STANDING ACOUSTICAL PANEL PARTITION- SEE A700 SERIES FOR ADDITIONAL INFORMATION.
- NEW DIGITAL SIGNS ABOVE EACH CUSTOMER SERVICE WINDOW -SEE ELECTRICAL DRAWINGS.



WALL LEGEND

- EXISTING WALL
- NEW WALL
- NEW DEMOUNTABLE PARTITION

PLAN NORTH
TRUE NORTH



FIRST FLOOR ALTERATIONS TO:
HENDERSONVILLE CITY HALL
HENDERSONVILLE, NC

MINOR REVISIONS & COORDINATION THIS SHEET

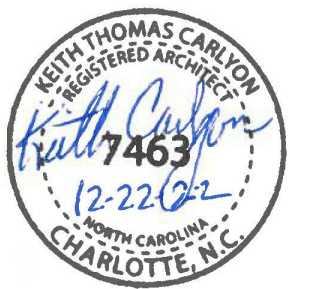
FIRST FLOOR PLAN

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS

NO:	DATE:	DESCRIPTION:
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SHEET NUMBER

A100



FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

MINOR REVISIONS & COORDINATION THIS SHEET

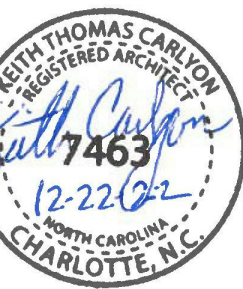
FIRST FLOOR DIMENSIONING & WALL TYPE PLAN

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS

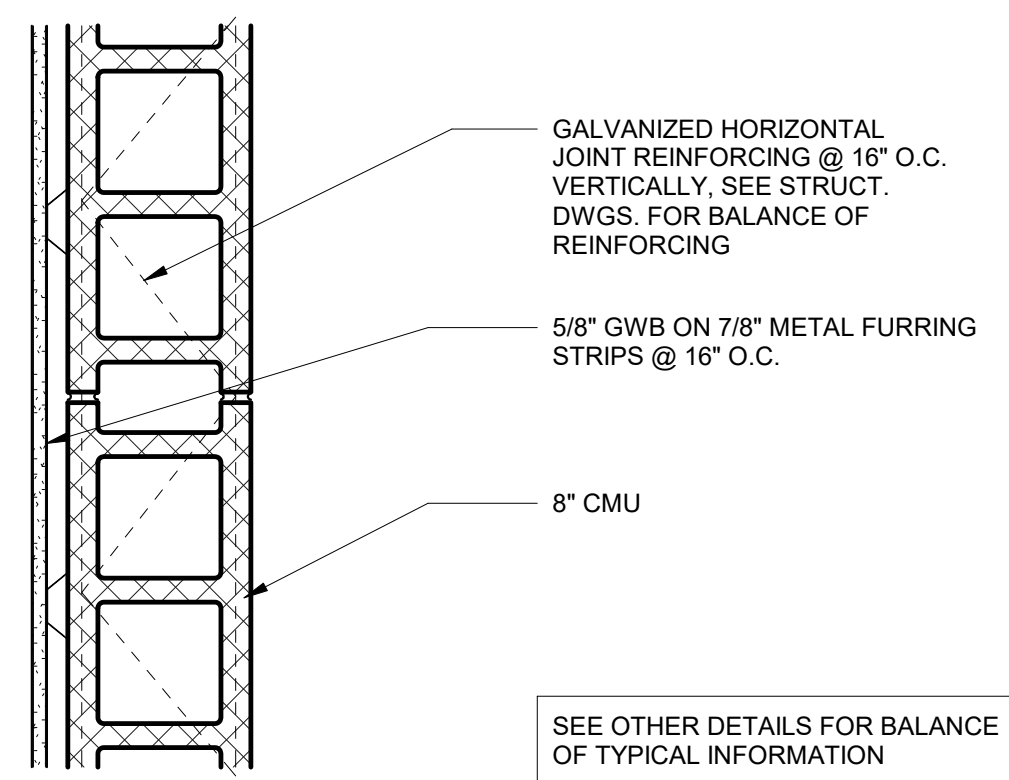
NO:	DATE:	DESCRIPTION:
1	12.22.22	REVISION 1

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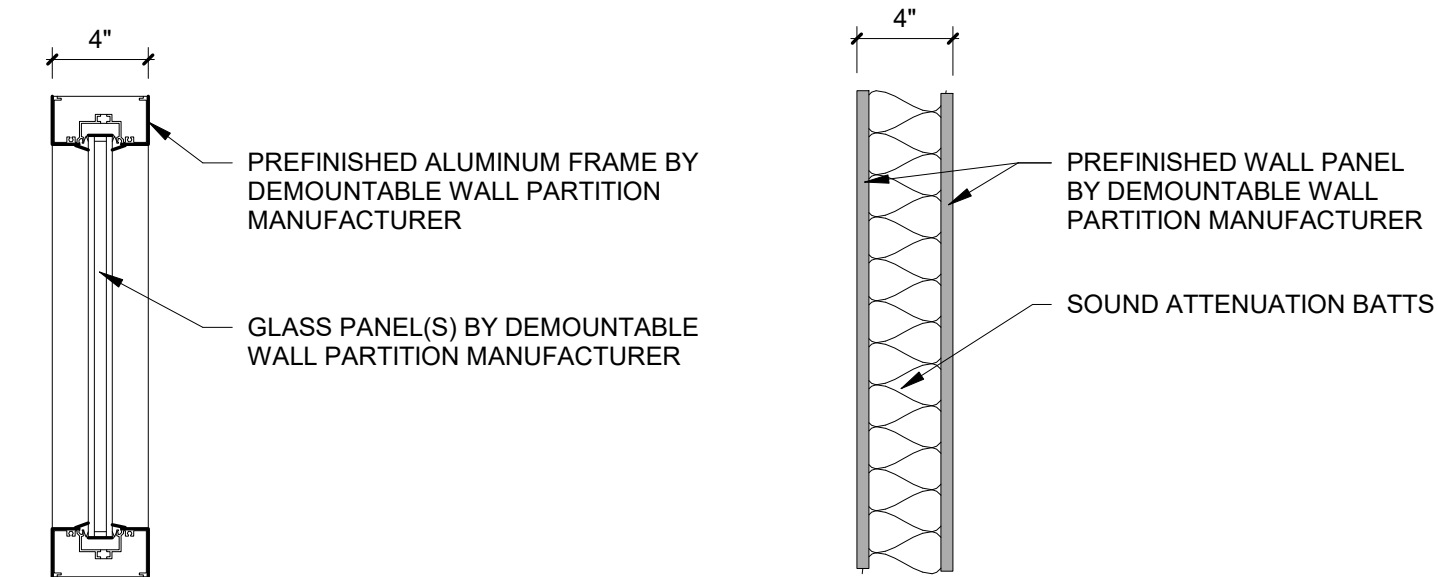


SHEET NUMBER

A101

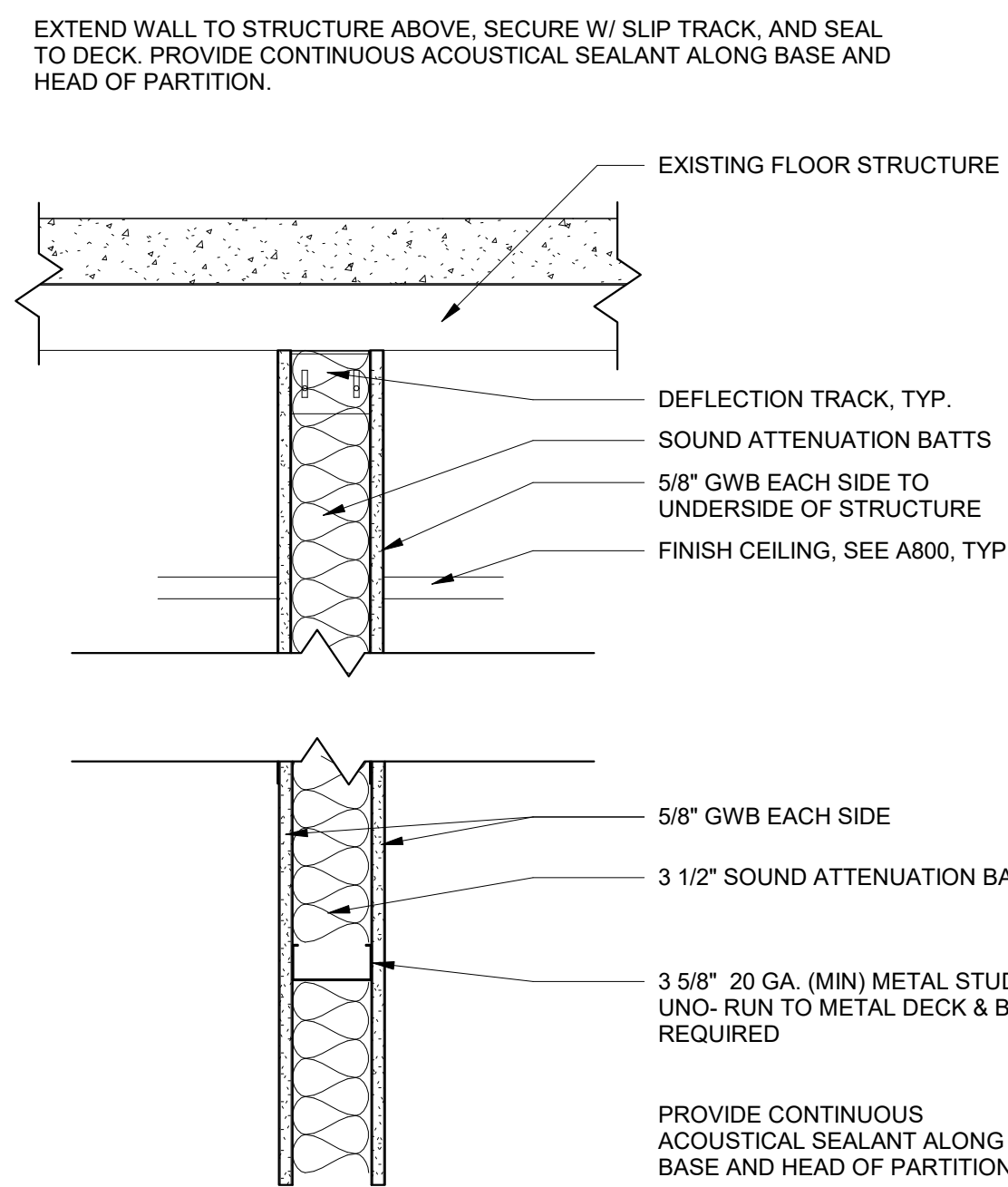


WALL TYPE 3



WALL TYPE 2

DEMOUNTABLE WALL PARTITION - SEE A700 SERIES FOR WALL DESIGN. TOP AND BOTTOM MOUNT BY DEMOUNTABLE WALL MANUFACTURER.



WALL TYPE 1

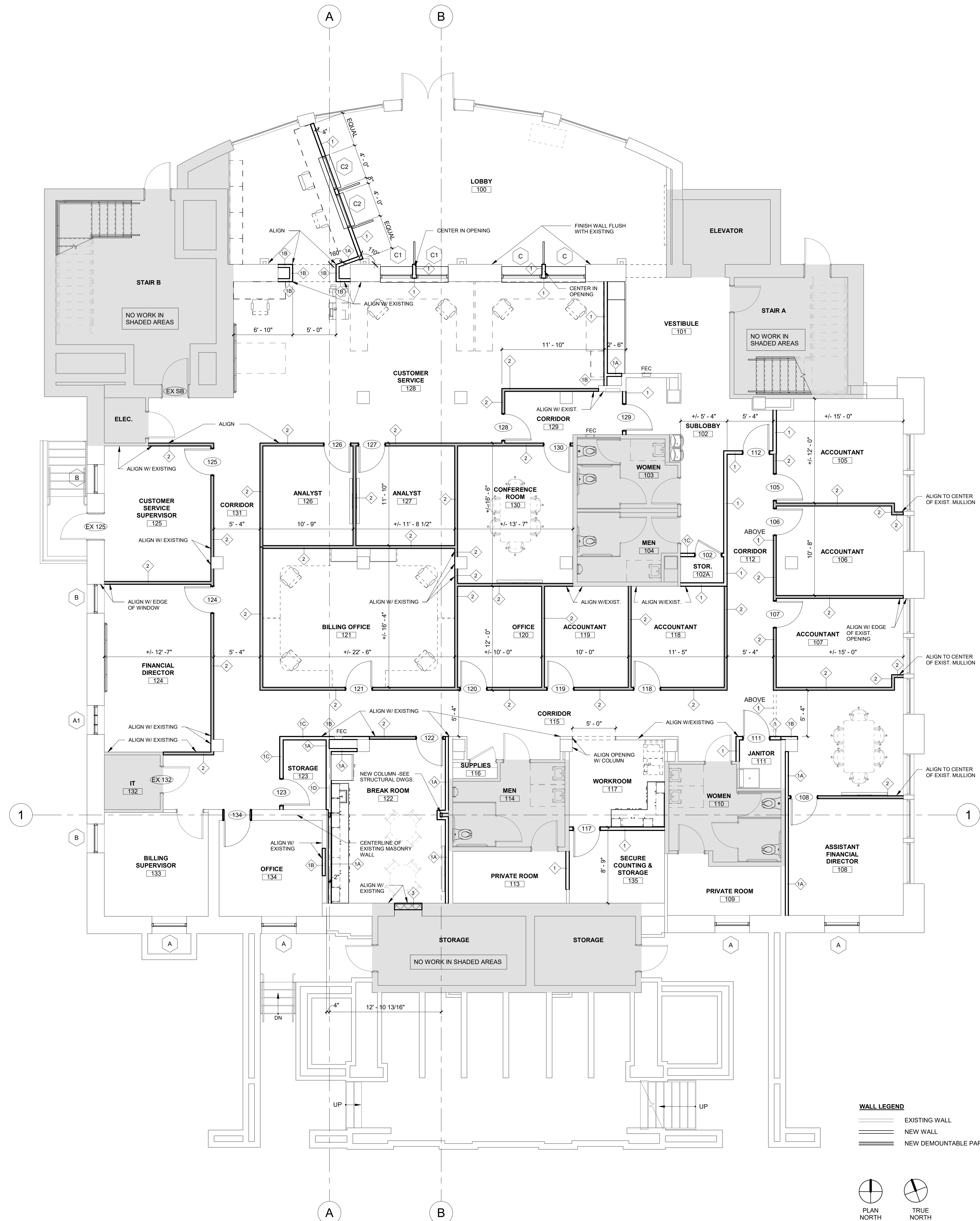
WALL TYPE 1A
SAME AS TYPE 1 EXCEPT GWB ON ONE SIDE ONLY.

WALL TYPE 1B
SAME AS TYPE 1A EXCEPT NO SOUND BATTS & STOP GWB 6" ABOVE CEILING.

WALL TYPE 1C
SAME AS TYPE 1 EXCEPT NO SOUND BATTS & STOP GWB 6" ABOVE CEILING.

WALL TYPE 1D
SAME AS TYPE 1 EXCEPT 6" METAL STUDS IN LIEU OF 3 5/8" METAL STUDS.

WALL TYPES | 1 1/2" = 1'-0" | 2

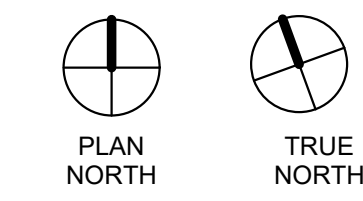


WALL LEGEND

EXISTING WALL

NEW WALL

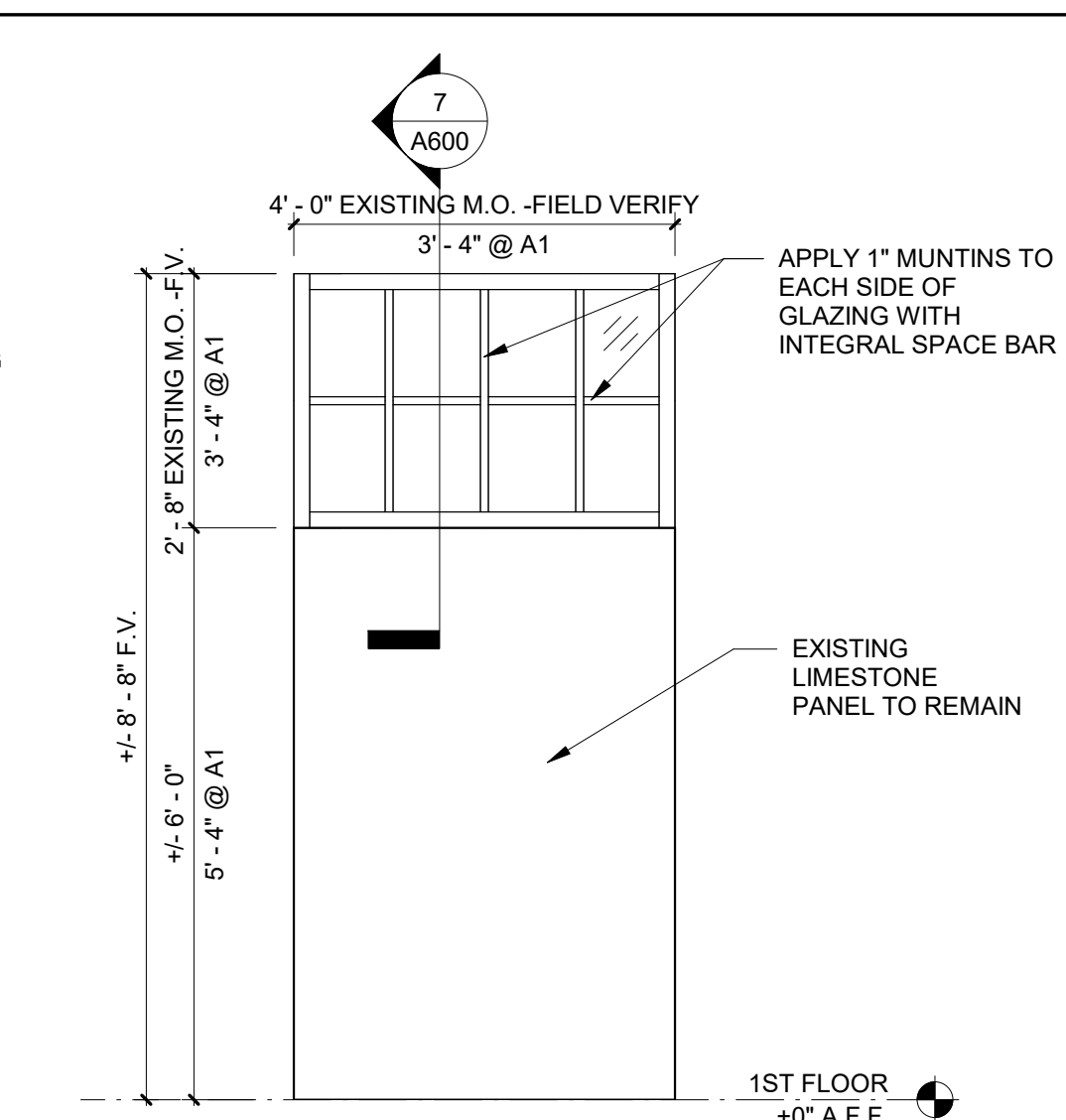
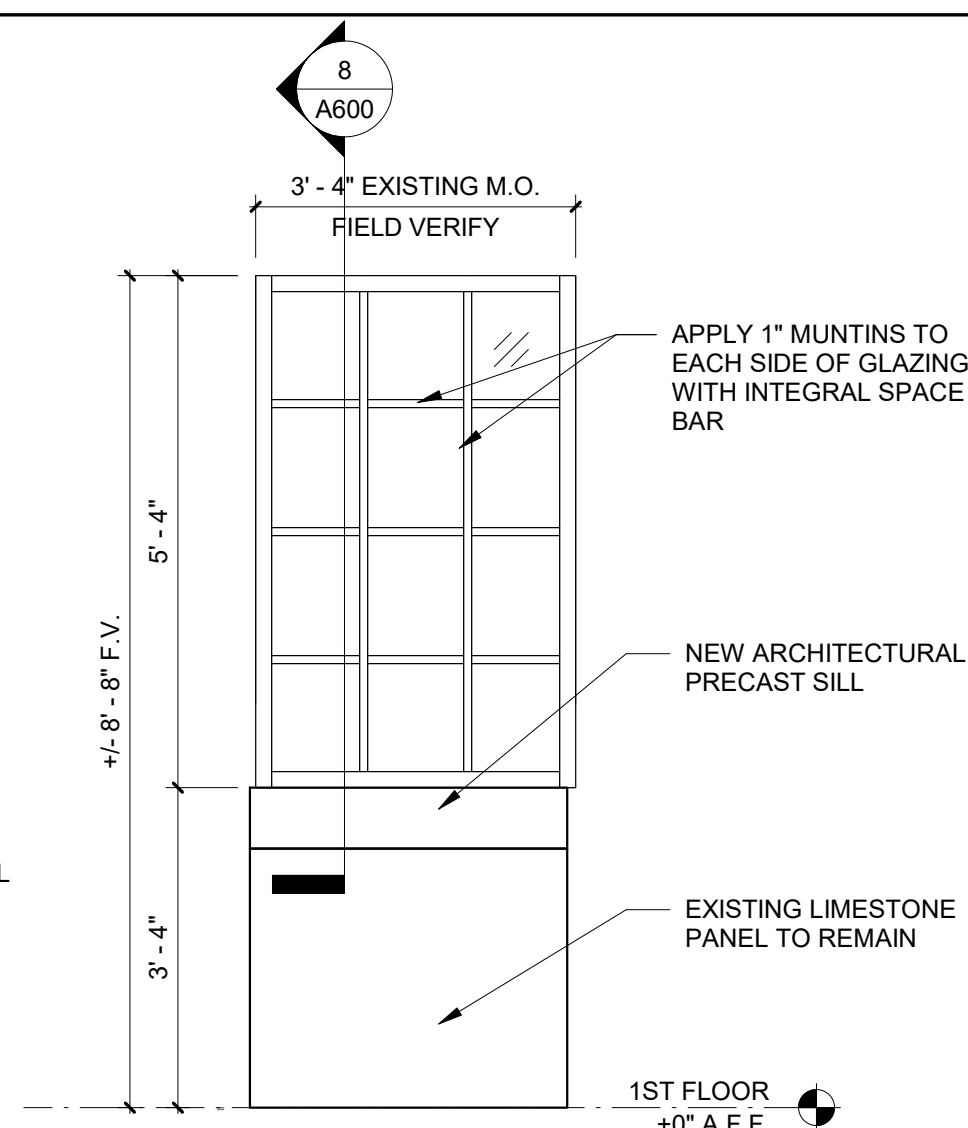
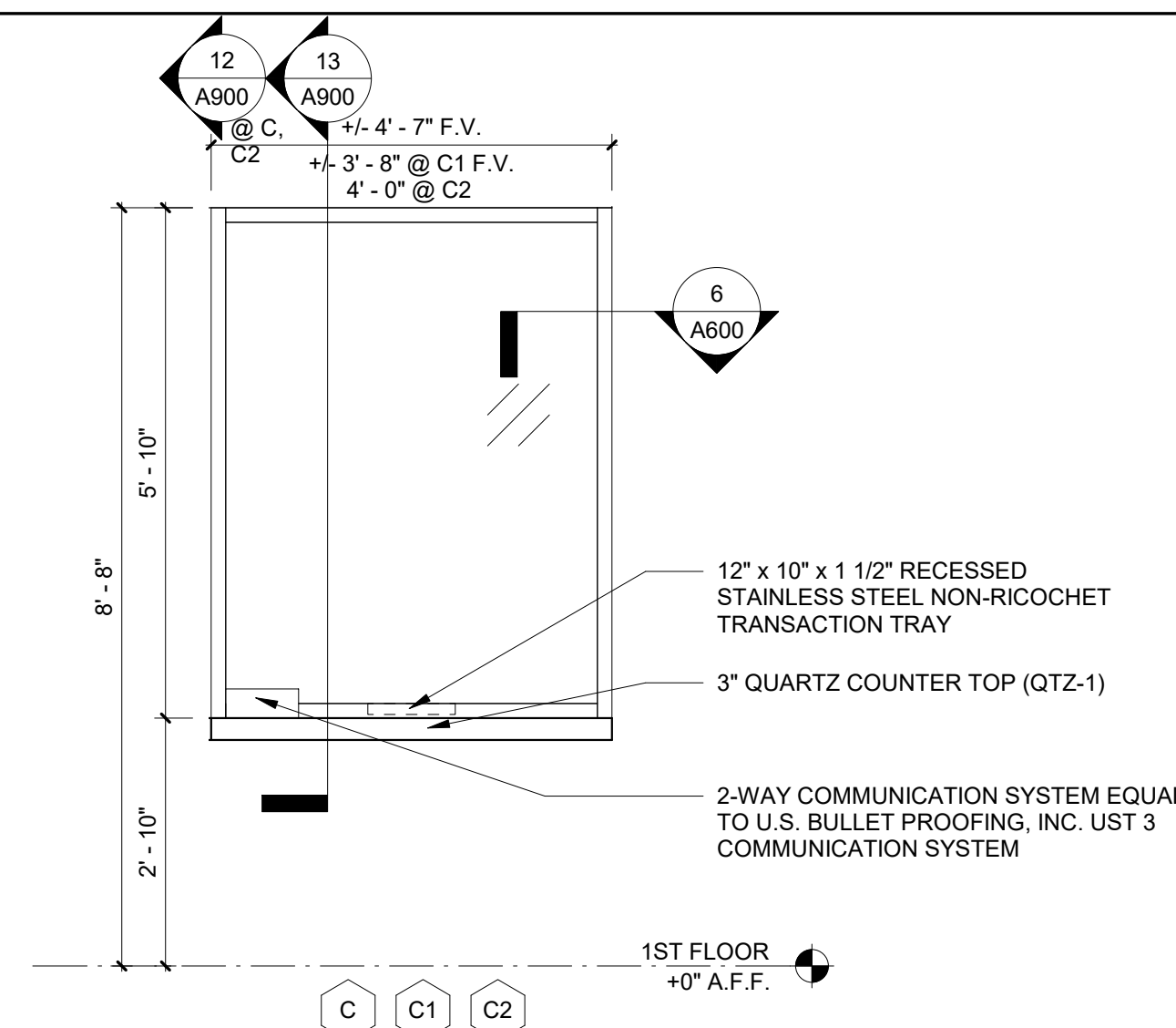
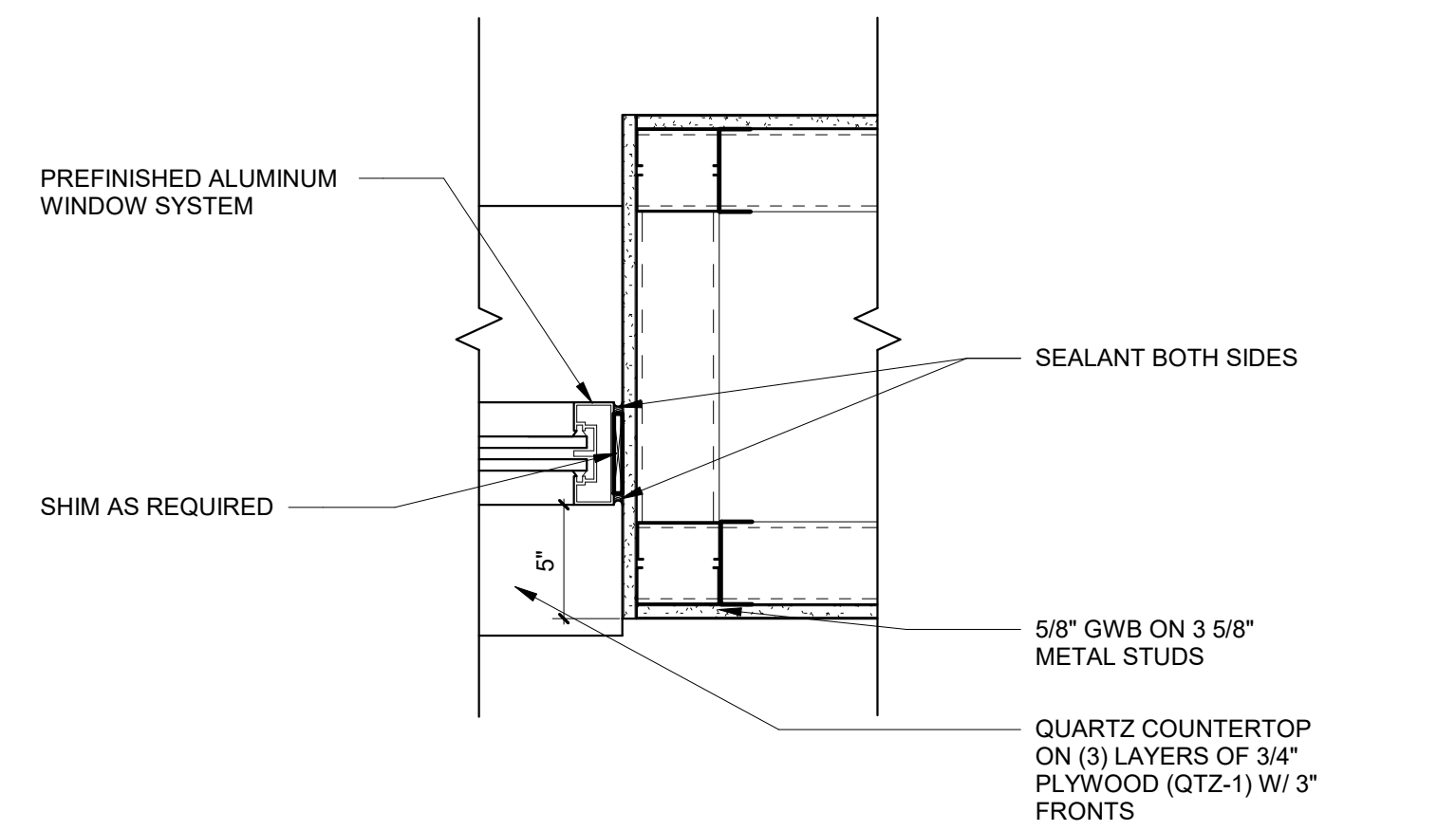
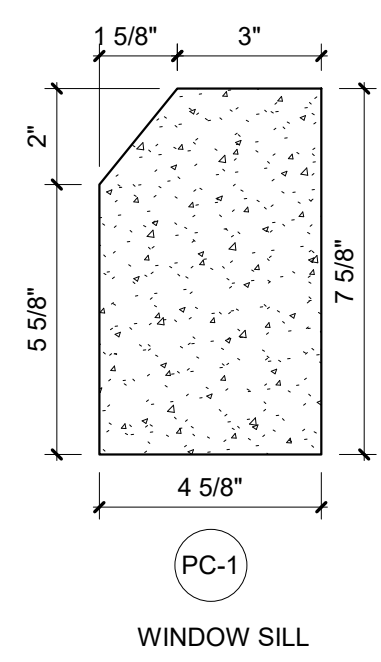
NEW DEMOUNTABLE PARTITION



FIRST FLOOR DIMENSIONING & WALL TYPE PLAN | 3/16" = 1'-0" | 1

ARCHITECTURAL PRECAST GENERAL NOTES

- ALL ITEMS SHALL BE ARCHITECTURAL PRECAST CONCRETE AND SHALL BE FINISHED ON ALL SIDES WHICH ARE VISIBLE U.N.O.
- PROVIDE CUSTOM SHAPES AS SHOWN IN LONGEST LENGTH POSSIBLE. ARCHITECTURAL PRECAST SHALL BE MANUFACTURED IN SIZES DESIGNED TO MINIMIZE THE NUMBER OF JOINTS. MANUFACTURER SHALL PROVIDE SHOP DRAWINGS INDICATING JOINT LOCATIONS AND ANCHORING DETAILS AS RECOMMENDED BY MANUFACTURER, BUT NOT LESS THAN THOSE INDICATED OR SPECIFIED.
- ARCHITECTURAL PRECAST SHALL HAVE A SMOOTH FINISH & COLOR TO MATCH EXISTING LIMESTONE. SUBMIT SAMPLES FOR ARCHITECT'S APPROVAL.
- ARCHITECTURAL PRECAST SHALL BE REINFORCED AS REQUIRED FOR PIECE INTEGRITY. PROVIDE SIGNED AND SEALED SHOP DRAWINGS FOR REVIEW.
- ADDITIONAL SUPPORT OR BLOCKING SHALL BE PROVIDED IF REQUIRED WHETHER SHOWN OR NOT AT NO ADDITIONAL COST TO THE JOB.
- CAREFULLY HANDLING & SETTING OF PRECAST MATERIALS IS CRITICAL TO OBTAINING PROFESSIONAL RESULTS. ON-SITE PERSONNEL MUST BE FAMILIAR WITH THE PRECAST CONCRETE INSTITUTE'S RECOMMENDATIONS AND INSTALLATION GUIDELINES.
- SEE WINDOW SECTIONS FOR FLASHING LOCATIONS AND DETAILS.
- PROVIDE COLORED MORTAR BETWEEN SMALL LOAD BEARING UNITS. COLOR OF MORTAR TO MATCH PRECAST UNITS.
- AT LARGE OR SUSPENDED UNITS OR AS SHOWN, INSTALL BACKER ROD & SEALANT AT JOINTS. SEALANT COLOR TO MATCH PRECAST UNITS.
- RAKE MORTAR JOINT BACK & INSTALL CUSTOM COLOR MATCH SEALANT AT ALL JOINTS.



BASE BID: PREFINISHED ALUMINUM STOREFRONT WINDOW SYSTEM W/ 1/4\"/>

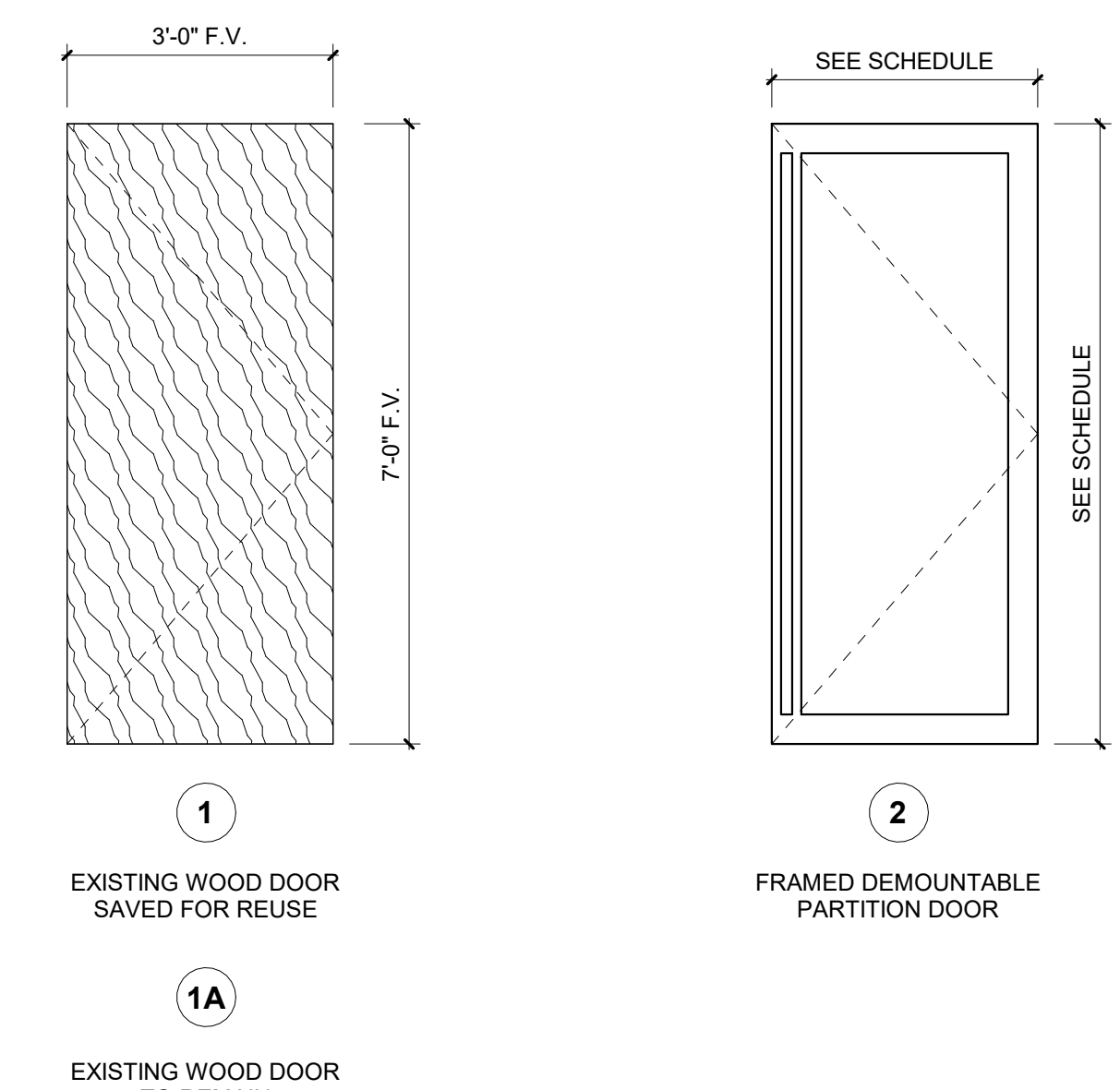
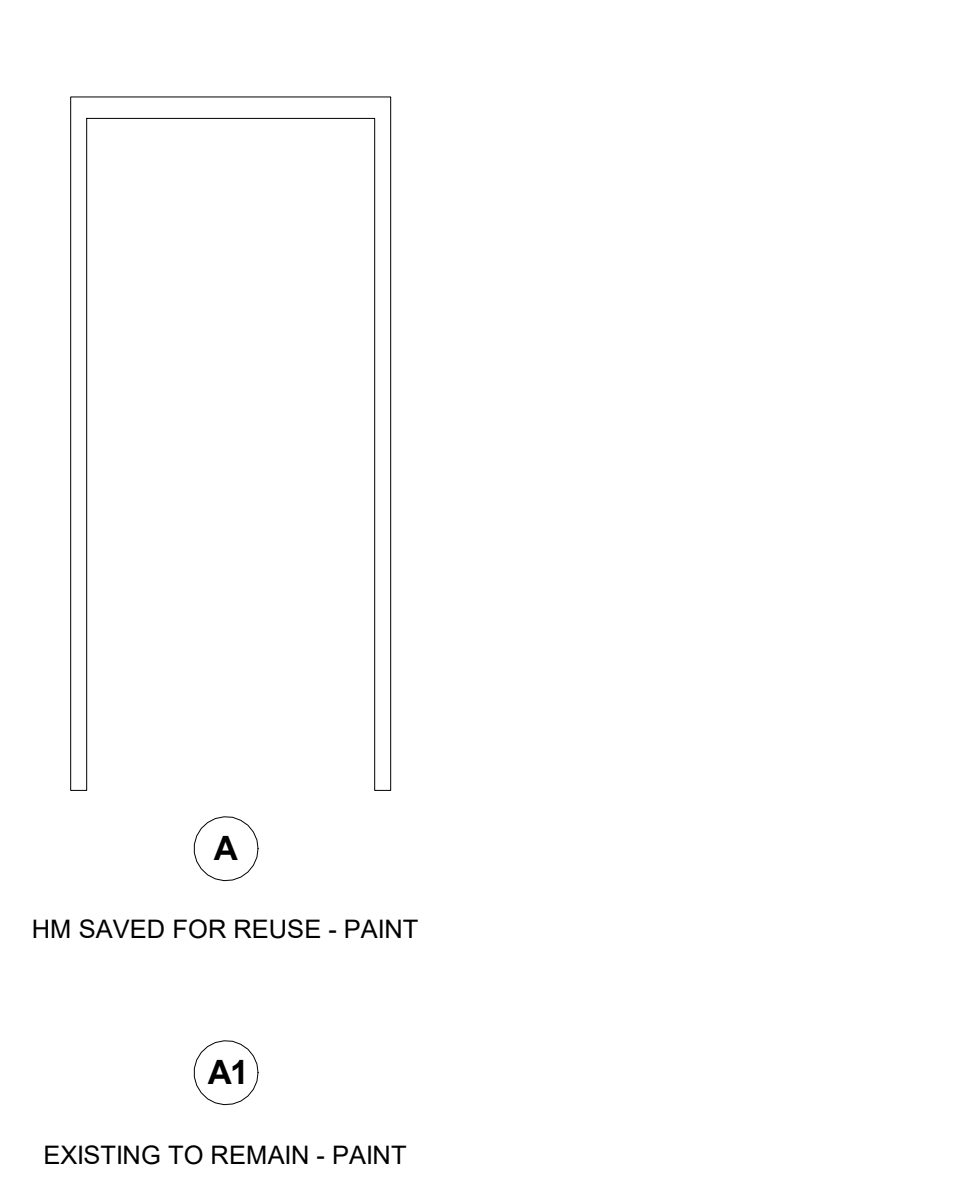
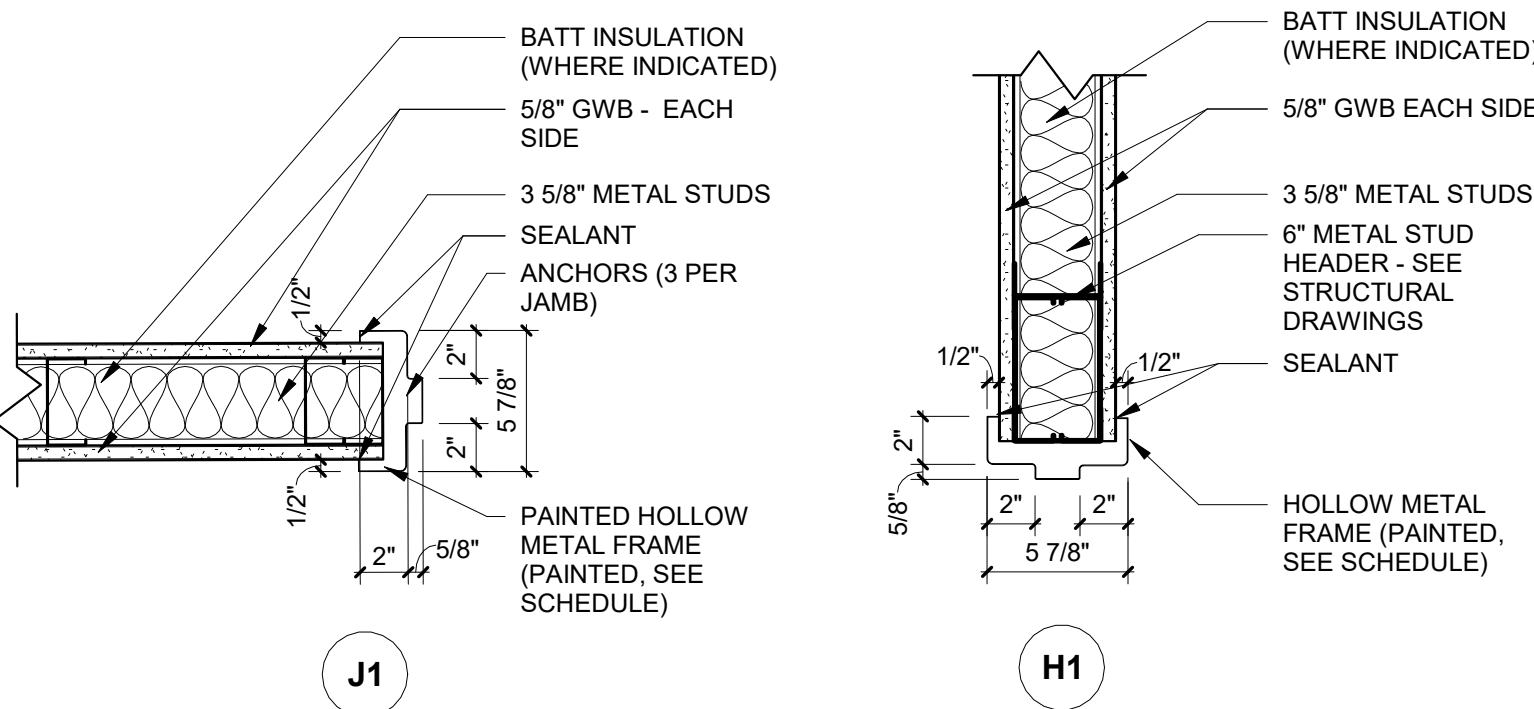
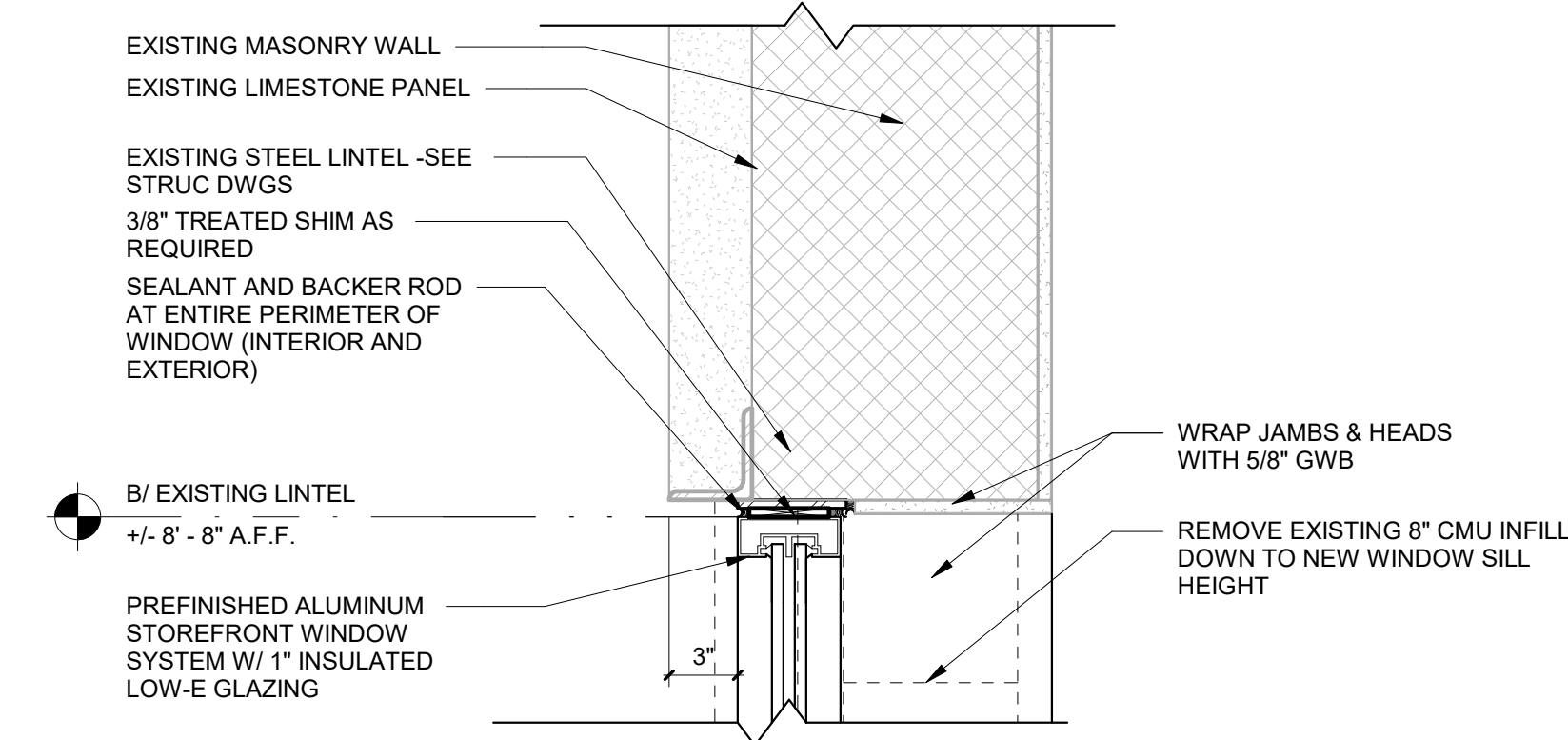
PREFINISHED ALUMINUM STOREFRONT WINDOW SYSTEM W/ 1\"/>

PREFINISHED ALUMINUM STOREFRONT WINDOW SYSTEM W/ 1\"/>

ARCH. PRECAST DETAIL & NOTES 3\"/>

WINDOW JAMB 1 1/2\"/>

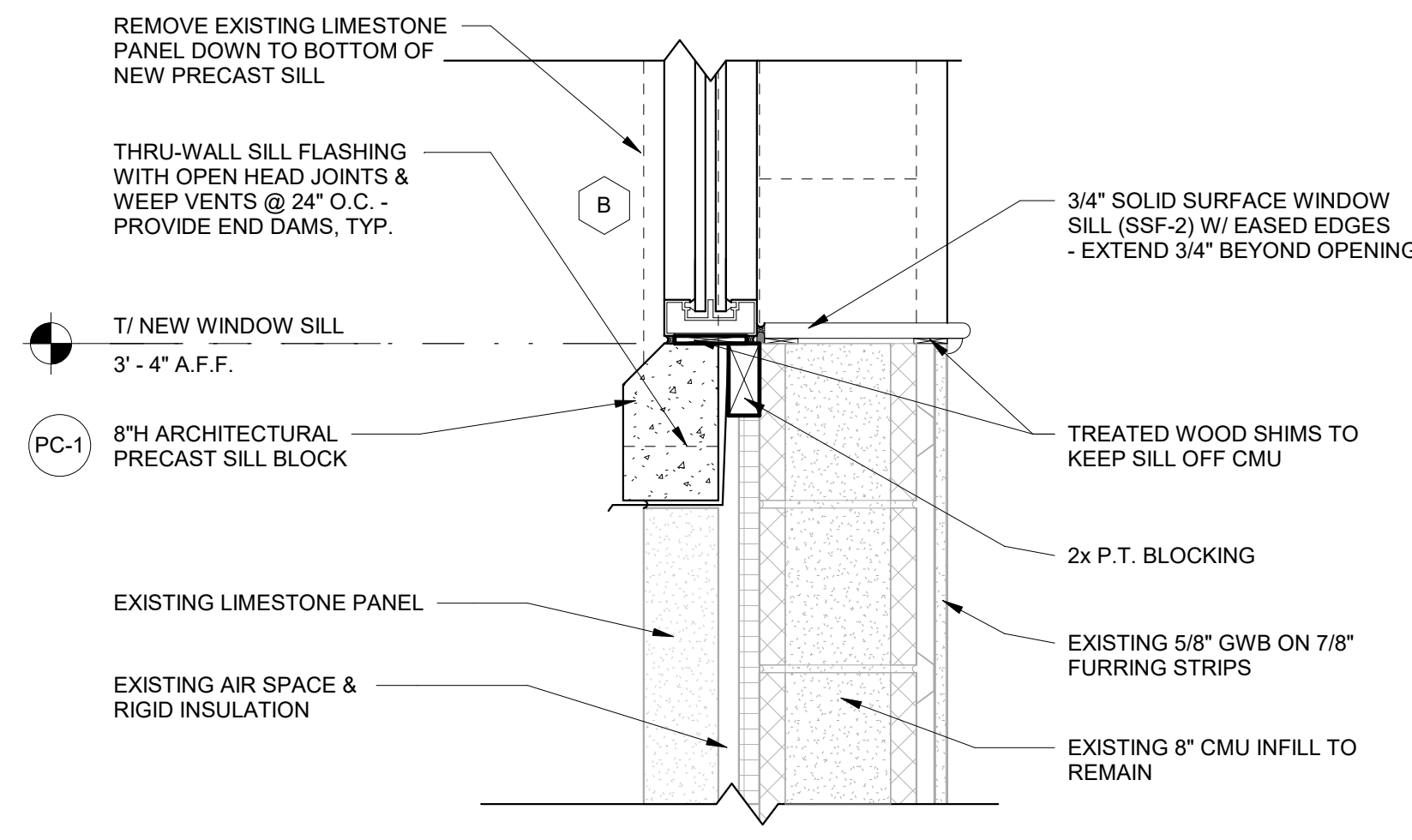
WINDOW ELEVATIONS 1/2\"/>



DOOR HEAD AND JAMB DETAILS 1 1/2\"/>

FRAME ELEVATIONS 1/2\"/>

DOOR ELEVATIONS 1/2\"/>



WINDOW SECTION 1 1/2\"/>

GENERAL NOTES

- ALL THRESHOLDS TO BE ADA COMPLIANT: THE FINISHED FLOOR ELEVATION ON BOTH SIDES OF A DOOR SHALL NOT BE MORE THAN 1/2\"/>
- SEE STRUCTURAL DRAWINGS FOR REINFORCING AT DOOR HEADS.
- FILL JAMB AND HEADER STUDS W/ INSULATION (TYP. IN WALLS SCHEDULED TO RECEIVE INSULATION).
- MAXIMUM DOOR OPENING EFFORTS (2018 NCSCB SECTION 1010.1.3)
 - 1. A 5 LB. FORCE SHALL OPEN INTERIOR SWINGING EGRESS DOORS (OTHER THAN FIRE DOORS)
 - 2. A 15 LB. FORCE SHALL RELEASE A LATCH
 - 3. A 30 LB. FORCE SHALL SET DOOR IN MOTION
 - 4. A 15 LB. FORCE SHALL SWING DOOR FULLY OPEN
- ALL DOORS PROVIDED W/ LATCHING HARDWARE SHALL BE EQUIPPED W/ SINGLE EFFORT, NON-GRASP HARDWARE (I.E. LEVER - UNLESS PROVIDED W/ PANIC HARDWARE).
- LEVER & PANIC HARDWARE SHOULD BE MOUNTED BETWEEN 34\"/>
- ALL REQUIRED EXIT DOOR HARDWARE TO COMPLY WITH THE NCSCB & CHAPTER 10 OF THE IFC.

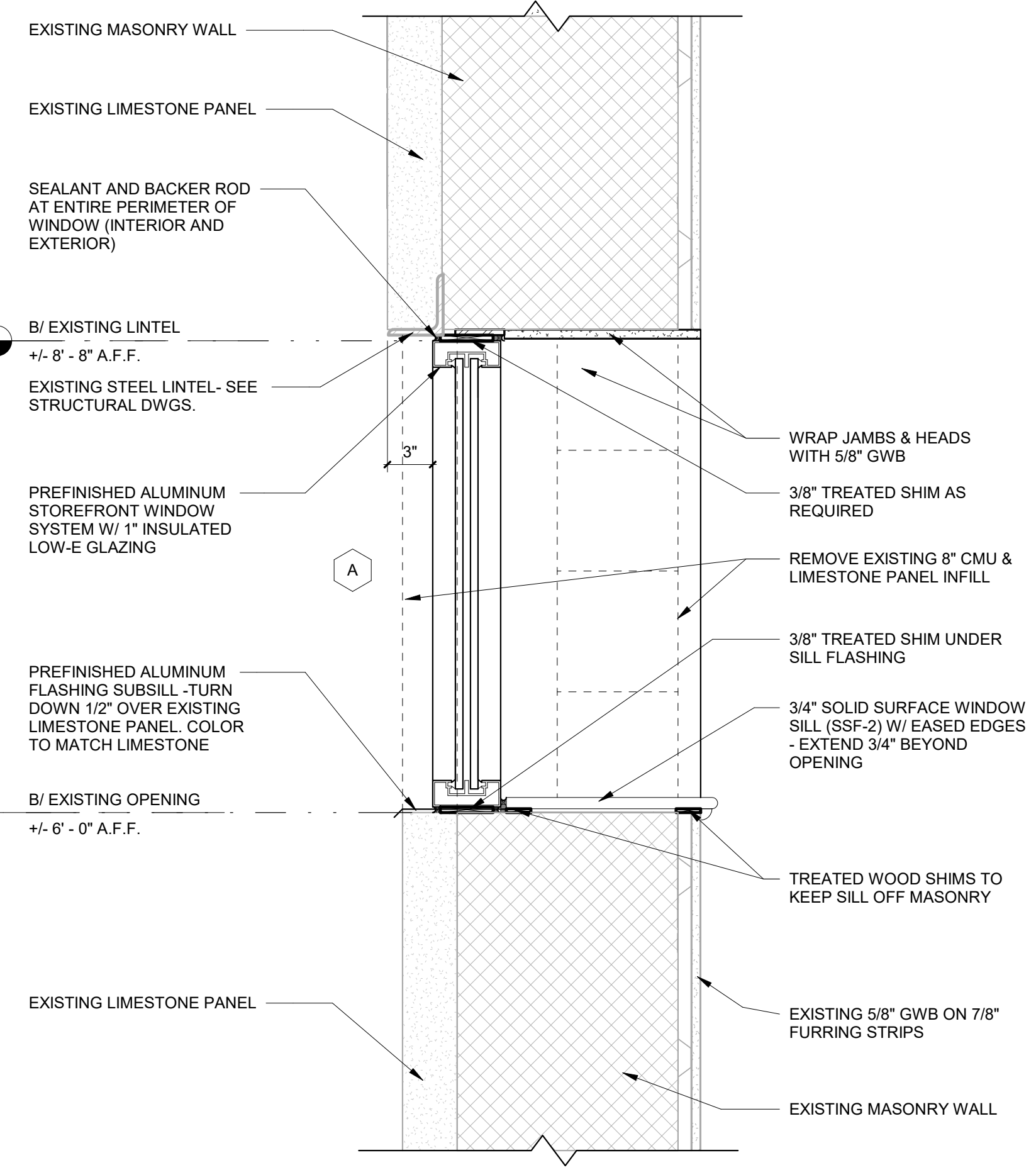
REMARKS:

- EXISTING DOOR SAVED FOR REUSE. REPAIR & STAIN AS REQUIRED TO MATCH EXISTING WOOD DOORS.
- EXISTING HM FRAME SAVED FOR REUSE- REPAIR & PAINT AS REQ'D
- NEW DOOR AND FRAME BY DEMOUNTABLE WALL MANUFACTURER
- CARD ACCESS
- MOUNT CLOSER ON PUSH SIDE
- MOUNT CLOSER ON PULL SIDE

DOOR, FRAME AND HARDWARE SCHEDULE

DOOR #	ROOM NAME	RATING	ELEVATION	DOOR			FRAME			HARDWARE				REMARKS	DOOR #					
				WIDTH	HEIGHT	THICKNESS	FINISH	MATERIAL	TYPE	MATERIAL	FRAME FINISH	HEAD	JAMB			SILL	CLOSER	PANIC	SMOKE SEAL	HW SET
102	STOR.	-	1	3'-0"	7'-0"	1 3/4"	STAINED	S.C. WOOD	A	HM	P-1	H1	J1	-	No	No	No	4.0	1,2	102
105	ACCOUNTANT	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	105
106	ACCOUNTANT	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	106
107	ACCOUNTANT	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	107
108	ASSISTANT FINANCIAL DIRECTOR	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	108
111	JANITOR	-	1	3'-0"	7'-0"	1 3/4"	STAINED	S.C. WOOD	A	HM	P-1	H1	J1	YES	Yes	No	No	6.0	1,2,5	111
112	CORRIDOR	-	1	3'-0"	7'-0"	1 3/4"	STAINED	S.C. WOOD	A	HM	P-1	H1	J1	-	Yes	Yes	No	2.0	1, 2, 4, 5	112
117	SECURE COUNTING & STORAGE	-	1	3'-0"	7'-0"	1 3/4"	STAINED	S.C. WOOD	A	HM	P-1	H1	J1	-	Yes	No	No	5.0	1, 2, 6	117
118	ACCOUNTANT	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	118
119	ACCOUNTANT	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	119
120	OFFICE	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	120
121	BILLING OFFICE	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	121
122	BREAK ROOM	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	122
123	STORAGE	-	1	3'-0"	7'-0"	1 3/4"	STAINED	S.C. WOOD	A	HM	P-1	H1	J1	-	No	No	No	4.0	1, 2	123
124	FINANCIAL DIRECTOR	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	124
125	CUSTOMER SERVICE SUPERVISOR	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	125
126	ANALYST	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	126
127	ANALYST	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	127
128	CUSTOMER SERVICE	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	Yes	Yes	No	7.0	*3,4,5	128
129	CORRIDOR	-	1	3'-0"	7'-0"	1 3/4"	STAINED	S.C. WOOD	A	HM	P-1	H1	J1	-	Yes	Yes	No	2.0	1,2,4,5	129
130	CONFERENCE ROOM	-	2	3'-0"	7'-0"	1 3/4"	PRE-FINISHED	ALUM./GLASS	*	*	SEE A700	-	-	-	No	No	No	7.0	*3	130
134	OFFICE	-	1	3'-0"	7'-0"	1 3/4"	STAINED	S.C. WOOD	A	HM	P-1	-	-	-	Yes	No	No	3.0	1, 2, 4, 6	134
EX 125	CUSTOMER SERVICE SUPERVISOR	-	1A	-	-	-	STAINED	-	-	A1	-	-	-	-	-	-	-	1.0	4, EXISTING DOOR & FRAME	EX 125
EX 132	IT	-	1A	-	-	-	STAINED	-	-	A1	-	-	-	-	-	-	-	8.0	4, EXISTING DOOR & FRAME	EX 132
EX SB	STAIR B	-	1A	-	-	-	STAINED	-	-	A1	-	-	-	-	-	-	-	8.0	4, EXISTING DOOR & FRAME	EX SB

*ALL EXISTING DOORS ON THE FIRST FLOOR SHALL BE REPAIRED & RESTAINED AS REQUIRED. ALL EXISTING DOOR FRAMES ON THE FIRST FLOOR SHALL BE PAINTED (P-1)



WINDOW SECTION 1 1/2\"/>

DOOR SCHEDULE, NOTES AND REMARKS NTS 1



FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

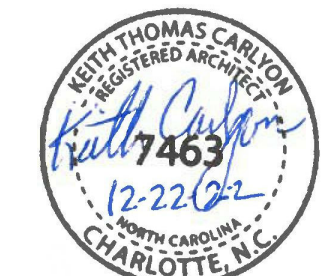
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SCHEDULES (DOORS & WINDOWS)

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE: DESCRIPTION:
1 12.22.22 REVISION 1

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SHEET NUMBER

A600

INTERIOR FINISH LEGEND ALL MATERIALS ARE BASIS OF DESIGN. SEE SPECIFICATIONS FOR APPROVED EQUALS.

FINISH CODE	MANUFACTURER	PRODUCT NAME	PRODUCT NUMBER	COLOR	SIZE / WIDTH	DESCRIPTION	REMARKS
BASE							
B-1	TARKETT	TRADITIONAL RUBBER BASE	TSB 63 4 TOE	63 BURNT UMBER	4" H	COVED	
B-2	TARKETT	MILLWORK-REVEAL	MW 63 F	63 BURNT UMBER	4 1/4" H	PROFILE RUBBER BASE	MITER ALL CORERS
B-3	FLORIDA TILE	SEQUENCE	P43N9	BREEZE	3" H x 24" L, 9MM	PORCELAIN TILE BULLNOSE BASE	GR-1, USE WITH TR-5 & TR-6, 1/8" GROUT JOINT, 1/4" TOE

FLOORING							
CPT-1	MANNINGTON	RIDGELINE	10901	CREST	12"W X 48"L	CARPET - TILE	1/3 OFFSET BRICK, 3 STEP ASHLAR
LV-1	JJ CONTRACT	TATAMI V5003	1018	KYOTO	18"W X 36"L, 5MM	LUXURY VINYL - TILE, 20 MIL ENHANCED UV URETHANE W/ICERAMIC BEAD, ZPT ZINC COATING	1/3 OFFSET BRICK
PT-1	FLORIDA TILE	SEQUENCE	34901	BREEZE	24"W X 48"L, 9MM	PORCELAIN TILE	1/3 OFFSET BRICK, GR-1, 3/16" JOINT
SC-1	-	SEALED CONCRETE	CONTRACTOR'S CHOICE	CLEAR			

WALLS							
P-1	SHERWIN WILLIAMS	TRIM PAINT	SW 6991	BLACK MAGIC	SEMI-GLOSS	TRIM AND HANDRAIL PAINT	-
P-2	SHERWIN WILLIAMS	STANDARD PAINT	SW 7636	ORIGAMI WHITE	EG SHEL	STANDARD WALL PAINT	SEE FINISH SCHEDULE FOR EPOXY LOCATIONS
P-3	SHERWIN WILLIAMS	ACCENT PAINT	SW 0068	COPEN BLUE	EG SHEL	ACCENT WALL & CEILING PAINT	SEE FINISH SCHEDULE FOR EPOXY LOCATIONS CEILING PAINT & SOFFIT TO BE FLAT PAINT FINISH
P-4	SHERWIN WILLIAMS	ACCENT PAINT	SW 6219	RAIN	EG SHEL	ACCENT WALL & CEILING PAINT	
P-5	SHERWIN WILLIAMS	STANDARD PAINT	SW 7006	EXTRA WHITE	FLAT	ACCENT WALL & CEILING PAINT	-
WT-1	FLORIDA TILE	EMOTIVE - LISTELLO	FTIEMV1GL3X12	ASTONISHED WHITE GLOSSY	3" H X 12" L, TEXTURED, 8.5MM	WALL TILE	GR-2, 3/16" GROUT JOINT

SURFACES							
PL-1	WILSONART	PLASTIC LAMINATE	4942-98	CRISP LINEN	FINE VELVET FINISH	COUNTER TOPS	-
PL-2	WILSONART	PLASTIC LAMINATE	7965K-12	WALNUT HEIGHTS	SOFT GRAIN FINISH	CABINET VERTICAL SURFACES	-
PL-3	WILSONART	PLASTIC LAMINATE	D92-60	DOVE GREY	MATTE FINISH	UPPER CABINET VERTICAL SURFACES	BREAK ROOM ONLY
QTZ-1	SILESTONE	QUARTZ	825 I110203	LYRA	GLOSS	COUNTER TOPS	-
SSF-1	WILSONART	SOLID SURFACE	9204CE	MORNING ICE	MATTE, 1/2" THICK	COUNTER TOPS	-
SSF-2	CORIAN	SOLID SURFACE	-	DEEP NOCTURNE	MATTE, 1/2"-3/4"	WINDOW SILLS	-

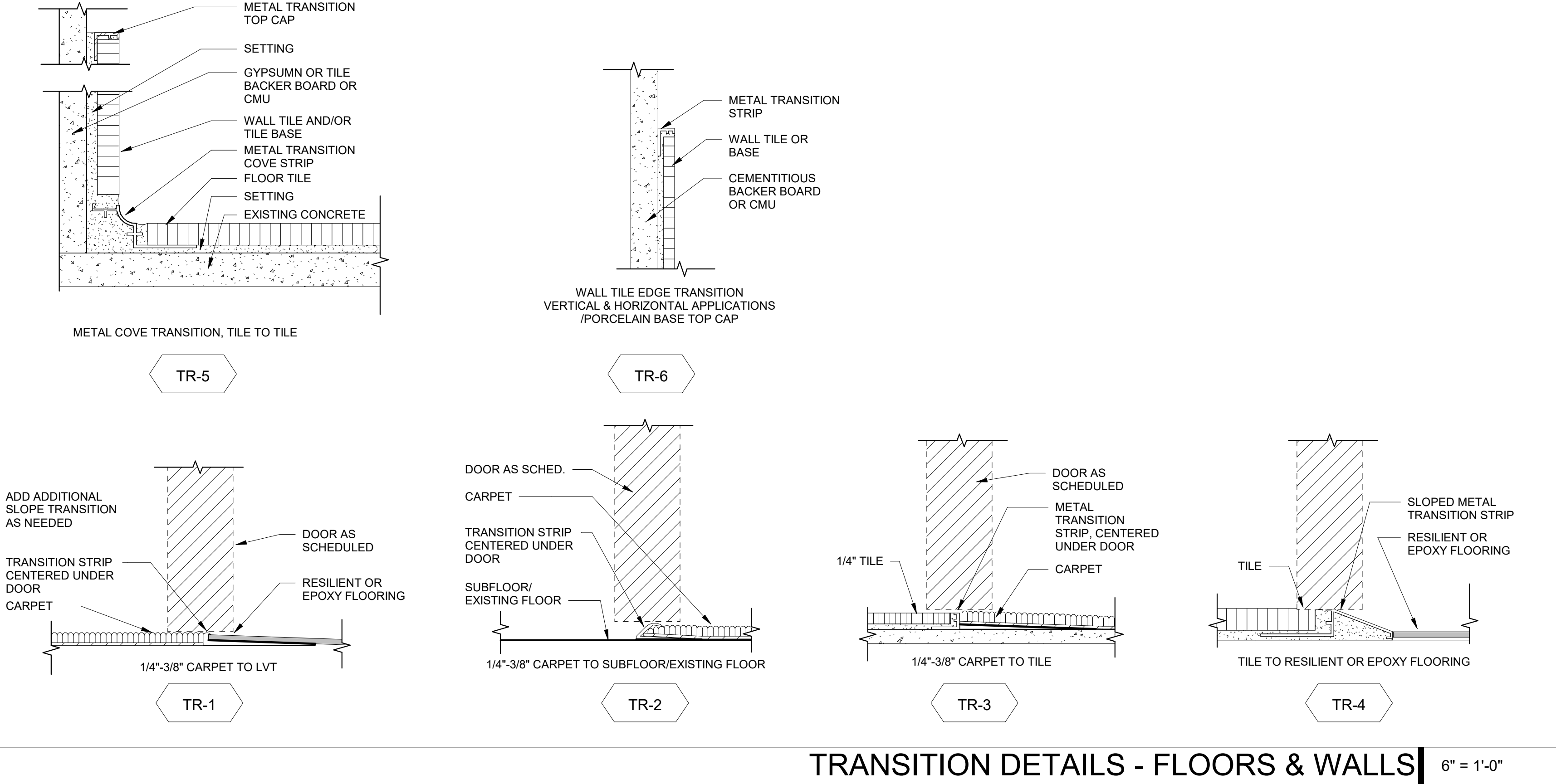
MISCELLANEOUS							
AP-1	HAWORTH-BUZZIFALLS	ACOUSTICAL FREESTANDING PANEL DIVIDER	SINGLE SCREEN	PATTERN-RAIN BLACK FRAME-BTR	LIGHTBLUE-8FE-60 GRADE A	ACOUSTICAL ROOM DIVIDER SCREEN WITH FRAME AND FELT PANEL	SEE A100, A101 & A900 FOR LOCATIONS
D-1	MASONITE	PREFINISHED DOOR W/STAIN	SPECIES MATCH EXISTING	SPECIES MATCH EXISTING	-	-	-
FLM-1	3M	BORDER - HORIZONTAL	SH2FGLS	LEISE	-	TRANSLUCENT FILM PRODUCT	SEE DEMOUNTABLE WALL PARTITION ELEVATIONS - 2/A701
FRP-1	CRANE COMPOSITES	FRP PANELS SANITARY WALL PANELS, GLASBORD "FX"	85	WHITE	0.090" THICK, 4'X8'	CLASS A, WITH MATCHING CAULK VERTICAL SEAMS AND TOP, BOTTOM EDGE TRIMS	AT ALL JANITOR SINKS, INSTALL HORIZONTALLY, UNLESS CALLED OUT IN REMARKS OR ON FINISH PLANS
GR-1	MAPEI	KERAPOXY	09	GRAY	-	FLOOR GROUT - SANDED EPOXY	-
GR-2	MAPEI	KERACOLOR S	02	PEWTER	-	WALL GROUT - SANDED	-
MB-1	DEMOUNTABLE WALL	MARKER BOARD	-	-	-	-	-
MB-2	CLARIDGE	MARKER BOARD	-	-	-	-	-
TB-1	DEMOUNTABLE WALL	TACK BOARD	-	TO MATCH WALL	-	-	-
TB-2	CLARIDGE	TACK BOARD	-	GRAY OR FAWN	-	-	-
TR-1	TARKETT	METALEDGE	178	IRONSTONE	-	TRANSITION - CARPET TO RESILIENT FLOORING	
TR-2	TARKETT	TRANSITION	EG-29-H	MOON ROCK	-	TRANSITION - CARPET/RESILIENT TO CONCRETE	
TR-3	SCHLUTER	SCHIENE	E	STAINLESS STEEL 304	L-SHAPED	TRANSITION - CARPET TO TILE, TILE TO TILE	
TR-4	SCHLUTER	RENO-U	E	STAINLESS STEEL 304		TRANSITION - SLOPED EDGE, TILE TO RESILIENT	
TR-5	SCHLUTER	DILEX-AHK	AE	SATIN ANODIZED ALUMINUM		TRANSITION - COVE SHAPE, FLOOR TO WALL TILE	
TR-6	SCHLUTER	SCHIENE OR JOLLY	E	STAINLESS STEEL 304	L-SHAPED	TRANSITION - CARPET TO TILE, TILE TO TILE	
WC-1	SWF CONTRACT	TRUE PERFORMANCE	CROSSHATCH R300 SERIES	LINEN/FOG	3% OPACITY	WINDOWCOVERING - MANUAL SOLAR SHADES	SINGLE ROLLER

INTERIOR FINISH GENERAL NOTES	
1.	REFER TO OR REFERENCE INTERIOR SECTIONS, ELEVATIONS, DETAILS AND REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.
2.	VERIFY LOCATION OF CONTROL JOINTS IN ROOMS RECEIVING TILE FLOORS. SEE WRITTEN SPECIFICATIONS SECTION # 09 30 00.
3.	ALL INTERIOR WALL & CEILING FINISHES SHALL COMPLY WITH NCSBC CHAPTER 8, SECTION 803, TABLE 803.11 SPRINKLERED: A. INTERIOR EXIT STAIRWAYS, RAMPS AND EXIT PASSAGEWAYS: CLASS B B. CORRIDORS & ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS: CLASS B C. ROOM AND ENCLOSED SPACES: CLASS C NONSPRINKLERED: A. INTERIOR EXIT STAIRWAYS, RAMPS AND EXIT PASSAGEWAYS: CLASS A B. CORRIDORS & ENCLOSURES FOR EXIT ACCESS STAIRWAYS AND RAMPS: CLASS A C. ROOM AND ENCLOSED SPACES: CLASS C
4.	INTERIOR FLOOR FINISHES COMPLY WITH NCSBC CHAPTER 8, SECTION 804
5.	ALL INTERIOR FINISHES IN TOILET AND BATHROOMS SHALL COMPLY WITH NCSBC CHAPTER 12, SECTION 1210.2, 1210.2.1 THROUGH 1210.2.4
6.	REFER TO DOOR SCHEDULE (A600 SERIES) FOR DOOR & FRAME FINISHES.
7.	FOR MISCELLANEOUS INTERIOR TRIM FINISHES (WALL CAPS, NAILINGS, SILLS, ETC.) SEE REMARKS COLUMN IN ROOM FINISH SCHEDULE. ELEMENTS SUCH AS GRILLE AND LOUVER COLORS TO MATCH ADJACENT WALL OR CEILING PAINT COLOR UNLESS OTHERWISE NOTED.

INTERIOR FINISH CODES			
ACT	ACOUSTICAL CEILING TILE	QT	QUARRY TILE
AWC	ACOUSTICAL WALL CARPET	QTZ	QUARTZ
AWP	ACOUSTICAL WALL PANEL FINISH	RC	RESINOUS COUNTER
B	BASE	RF	RUBBER FLOOR
BRK	BRICK VENEER	RP	RESIN PANEL
CC	COLUMN COVER	SC	SEALED CONCRETE
CG	CORNER GUARD	SSF	SOLID SURFACE
CR	CHAIR RAIL	SS	STAINLESS STEEL
CPT	CARPET (TILES, BROADLOOM, WALKOFF)	ST	STAIN
CRT	CURTAIN (SHOWER, STAGE)	STC	STAINED CONCRETE
CSM	CAST STONE MASONRY	SDT	STATIC DISSIPATIVE TILE
D	DOOR	STR	STAIR TREAD
ELV	ELEVATOR FINISHES	TB	TACK BOARD
EPF	EPOXY FLOOR SYSTEM FINISH	TP	TOILET PARTITION
EPW	EPOXY WALL SYSTEM FINISH	TR	TRANSITIONS (FLOOR/WALL)
FRP	FIBERGLASS REINFORCED PANEL	TZ	TERRAZZO
FLM	FILM PRODUCT	VCT	VINYL COMPOSITION TILE
GL	GLASS	VET	VINYL ENHANCED TILE
GR	GROUT	VS	VINYL SHEET FLOORING
LCK	LOCKERS	VWC	VINYL WALLCOVERING
LV	LUXURY VINYL (TILE, PLANK)	WP	WALL PROTECTION
MB	MARKER BOARD/ GLASS BOARD	WC	WINDOW COVERING
N	NOISING (WOOD, RUBBER, METAL)	WWS	WIND WALLCOVERING (BLINDS, SOLAR ROLLER SHADE, DRAPES)
OWP	OPERABLE WALL PARTITION	WT	WALL TILE
P	PAINT	WPS	WALL PANEL SYSTEM
PC	POLISHED CONCRETE	WFS	WOOD FLOOR SYSTEM
PL	PLASTIC LAMINATE		
PT	PORCELAIN TILE		

ROOM FINISH SCHEDULE

RM NO.	NAME	FLOOR	BASE	WALLS				MILLWORK			COMMENTS	RM NO.
				STANDARD WALL	ACCENT WALL	CHAIR RAIL ABOVE	CHAIR RAIL BELOW	COUNTERTOP	FRONT CABINETS	TOE KICK		
100	LOBBY	PT-1	B-3	P-2				QTZ-1	PL-2	B-3	WC-1 SEE A701 FOR LOCATIONS, SEE A900 FOR CASEWORK ELEVATIONS, AP-1 DIVIDERS	100
101	VESTIBULE	PT-1	B-3	P-2				QTZ-1	PL-2	B-3	SEE CASEWORK ELEVATIONS A900	101
102	SUBLOBBY	PT-1	B-3	P-2								102
102A	STOR.	PT-1	B-3	P-2								102A
103	WOMEN	EXIS.	EXIS.	EXIS.							CLEAN EXISTING FLOOR AND WALL TILE WITH SANIGLAZE	103
104	MEN	EXIS.	EXIS.	EXIS.							CLEAN EXISTING FLOOR AND WALL TILE WITH SANIGLAZE	104
105	ACCOUNTANT	CPT-1	B-2	P-2	P-4						WC-1 SEE A701 FOR LOCATIONS	105
106	ACCOUNTANT	CPT-1	B-2	P-2	P-4						WC-1 SEE A701 FOR LOCATIONS	106
107	ACCOUNTANT	CPT-1	B-2	P-2	P-4						WC-1 SEE A701 FOR LOCATIONS	107
108	ASSISTANT FINANCIAL DIRECTOR	CPT-1	B-2	P-2	P-4						WC-1 SEE A701 FOR LOCATIONS	108
109	PRIVATE ROOM	LV-1	B-2	P-4							WC-1 SEE A701 FOR LOCATIONS	109
110	WOMEN	EXIS.	EXIS.	EXIS.							CLEAN EXISTING FLOOR AND WALL TILE WITH SANIGLAZE	110
111	JANITOR	SC-1	B-1	P-2	FRP-1						FRP-1 INSTALLED VERTICALLY ABOVE THE JANITOR SINK SEE A701	111
112	CORRIDOR	CPT-1	B-2	P-2							WC-2 SEE A701 FOR LOCATIONS	112
113	PRIVATE ROOM	LV-1	B-2	P-4							WC-2 SEE A701 FOR LOCATIONS	113
114	MEN	EXIS.	EXIS.	EXIS.							CLEAN EXISTING FLOOR AND WALL TILE WITH SANIGLAZE	114
115	CORRIDOR	CPT-1	B-2	P-2								115
116	SUPPLIES	CPT-1	B-1	P-2								116
117	WORKROOM	LV-1	B-2	P-2				PL-1	PL-2 / PL-3	PL-2	SEE CASEWORK ELEVATIONS A900	117
118	ACCOUNTANT	CPT-1	B-2	P-2	P-4							118
119	ACCOUNTANT	CPT-1	B-2	P-2	P-4							119
120	OFFICE	CPT-1	B-2	P-2	P-4							120
121	BILLING OFFICE	CPT-1	B-2	P-2	P-4							121
122	BREAK ROOM	LV-1	B-2	P-2	P-4, WT-1			SSF-1	PL-2 / PL-3	PL-2	ACCENT PAINT SEE A701, WT-1 BACKSPLASH SEE CASEWORK ELEVATIONS A900	122
123	STORAGE	CPT-1	B-1	P-2								123
124	FINANCIAL DIRECTOR	CPT-1	B-2	P-2	P-4						WC-1 SEE A701 FOR LOCATIONS, SSF-2 WINDOW SILLS SEE A600 WINDOW SECTIONS	124
125	CUSTOMER SERVICE SUPERVISOR	CPT-1	B-2	P-2	P-4						WC-1 SEE A701 FOR LOCATIONS	125
126	ANALYST	CPT-1	B-2	P-2	P-4							126
127	ANALYST	CPT-1	B-2	P-2	P-4							127
128	CUSTOMER SERVICE	CPT-1	B-2	P-2	P-4			QTZ-1			WC-1 SEE A701 FOR LOCATIONS	128
129	CORRIDOR	CPT-1	B-2	P-2	P-4							129
130	CONFERENCE ROOM	CPT-1	B-2	P-2	P-4							130
131	CORRIDOR	CPT-1	B-2	P-2	P-4							131
132	IT	EXIS.	EXIS.	EXIS.								132
133	BILLING SUPERVISOR	CPT-1	B-2	P-2	P-4						WC-1 SEE A701 FOR LOCATIONS	133
134	OFFICE	CPT-1	B-2	P-2	P-4						WC-1 SEE A701 FOR LOCATIONS	134
135	SECURE COUNTING & STORAGE	LV-1	B-1	P-2								135



FIRST FLOOR ALTERATIONS TO:
HENDERSONVILLE CITY HALL
HENDERSONVILLE, NC

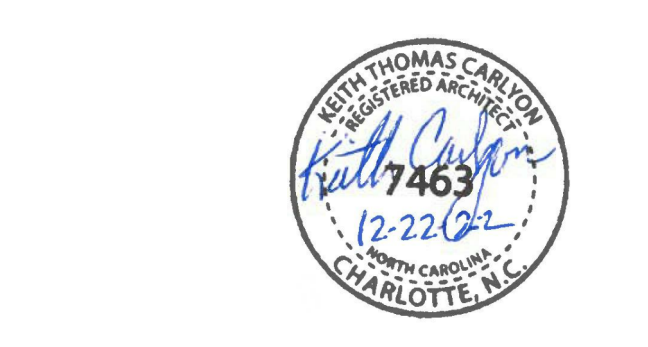
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FINISH LEGEND, SCHEDULE, NOTES & CODES

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE DESCRIPTION
1 12.22.22 REVISION 1

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FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

FIRST FLOOR FINISH PLAN

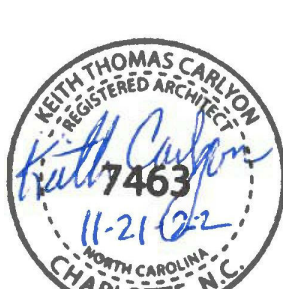
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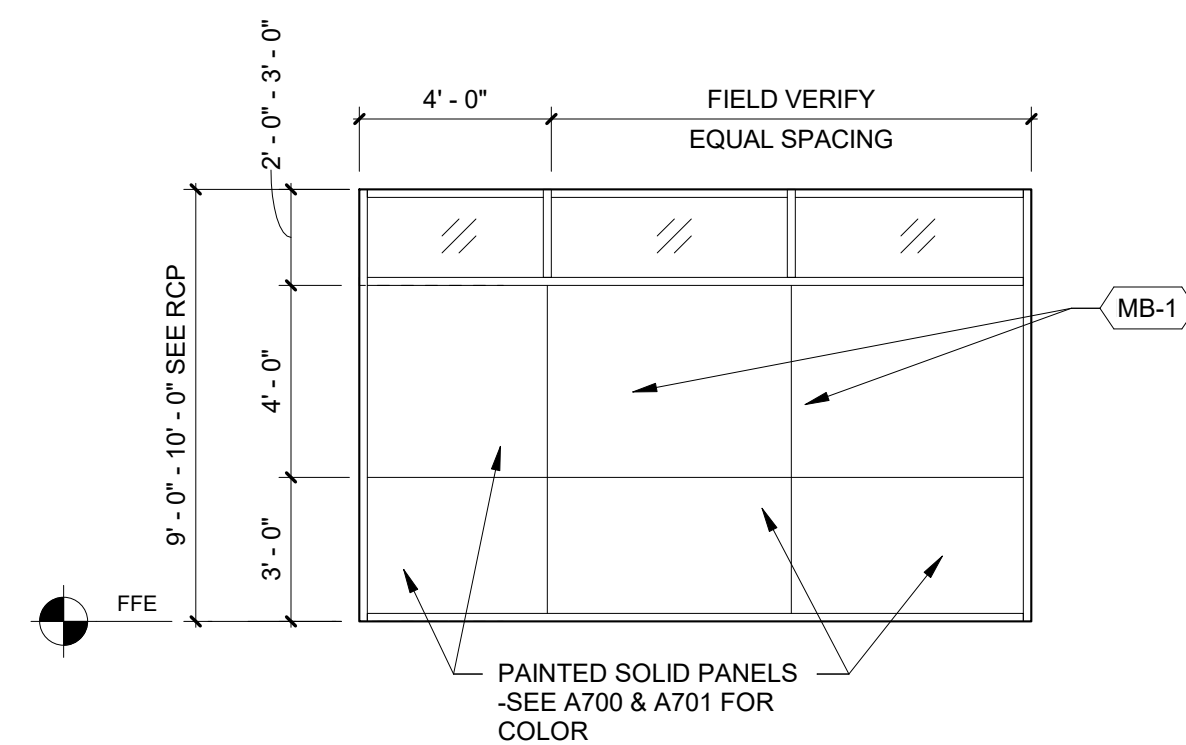


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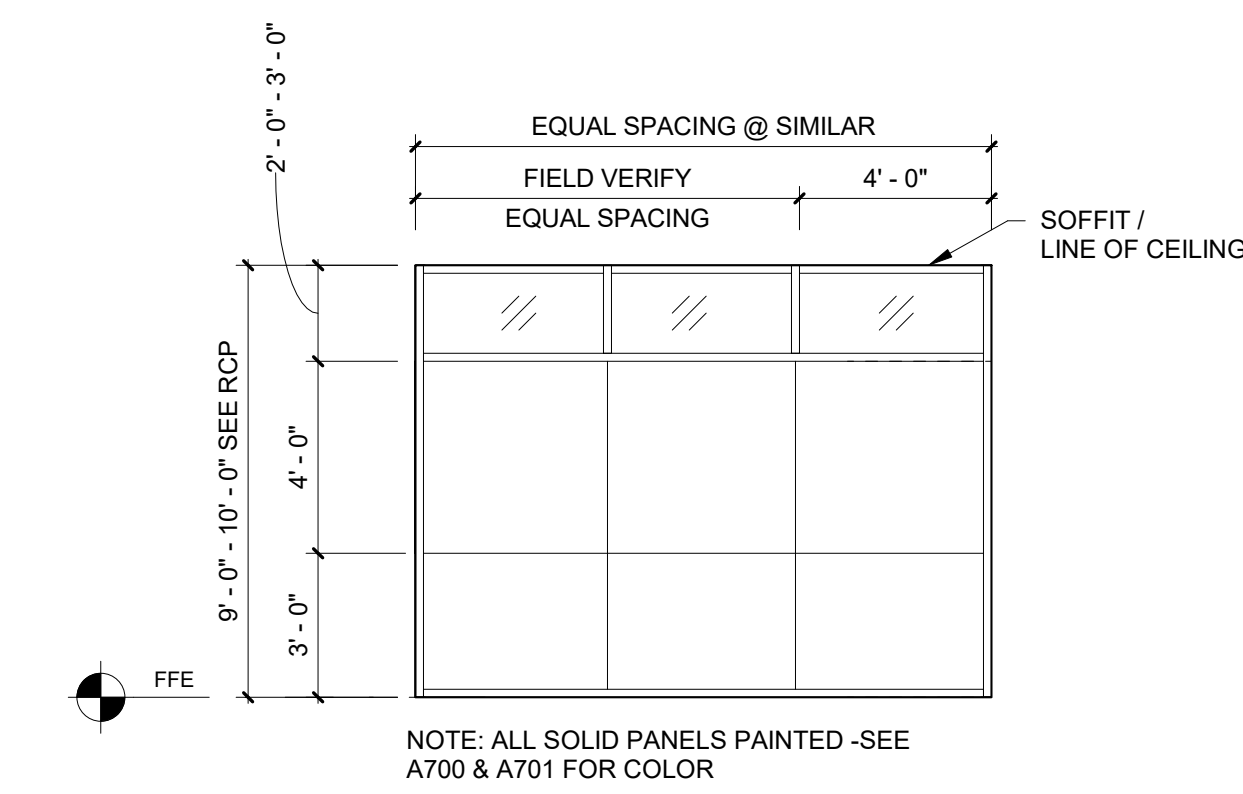
A701

DEMOUNTABLE WALL PARTITION GENERAL NOTES

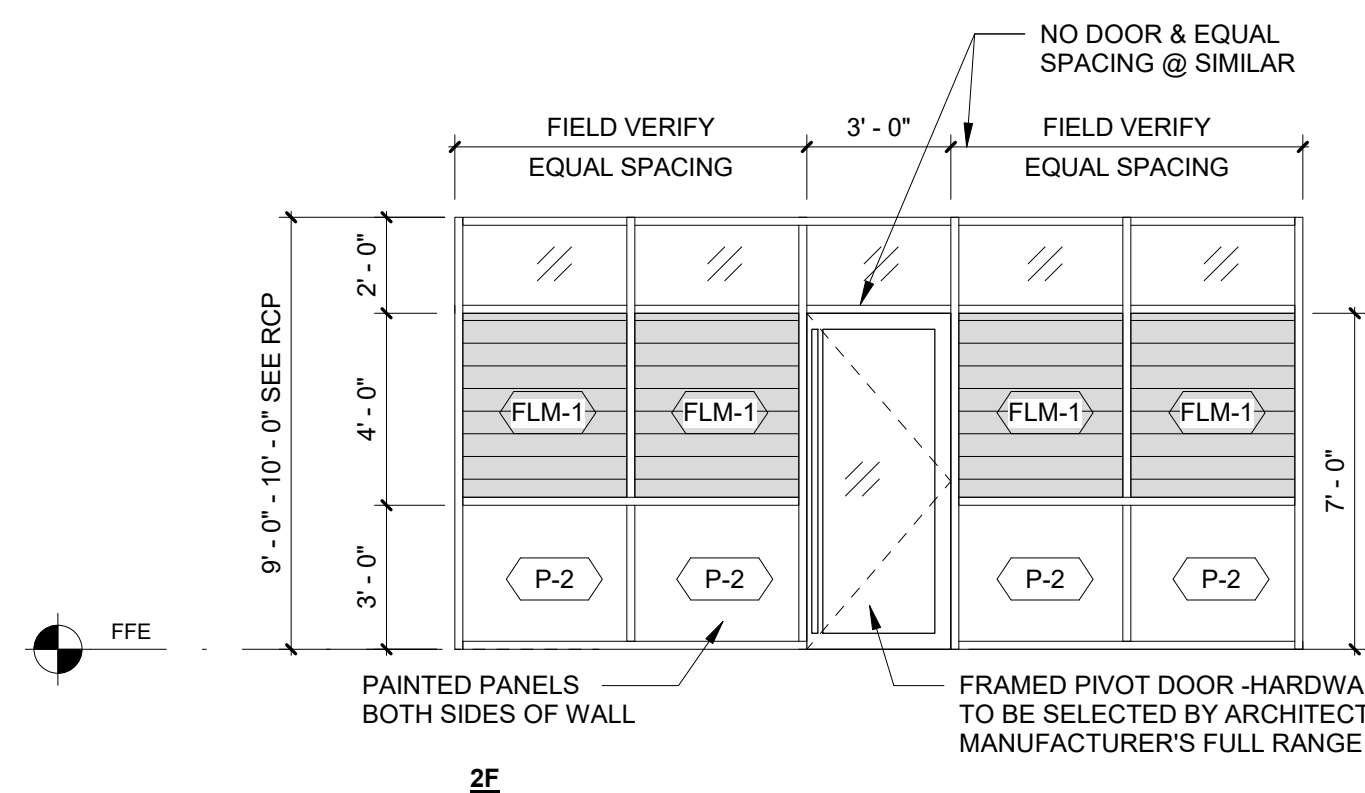
- ALL ELEVATIONS ARE TYPICAL TO PROVIDE DESIGN INTENT. DEMOUNTABLE WALL MANUFACTURER TO PROVIDE SHOP DRAWINGS WITH DETAILS OF ALL PARTITIONS FOR REVIEW PRIOR TO FABRICATION.
- BASIS OF DESIGN IS DIRTT. ACCEPTABLE ALTERNATE MANUFACTURERS ARE FALKBUILT & HAWORTH INTERIORS.
- SEE ELECTRICAL DRAWINGS FOR LOCATIONS OF POWER & DATA OUTLETS, SWITCHES, AND FIRE ALARM DEVICES. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL CONTRACTOR CONNECTION.
- PROVIDE BLOCKING AS REQUIRED WITHIN WALL FOR MOUNTING OF OWNER'S AV EQUIPMENT WHERE INDICATED.
- SEE A700 FOR PAINT, FILM, & MARKERBOARD FINISHES.



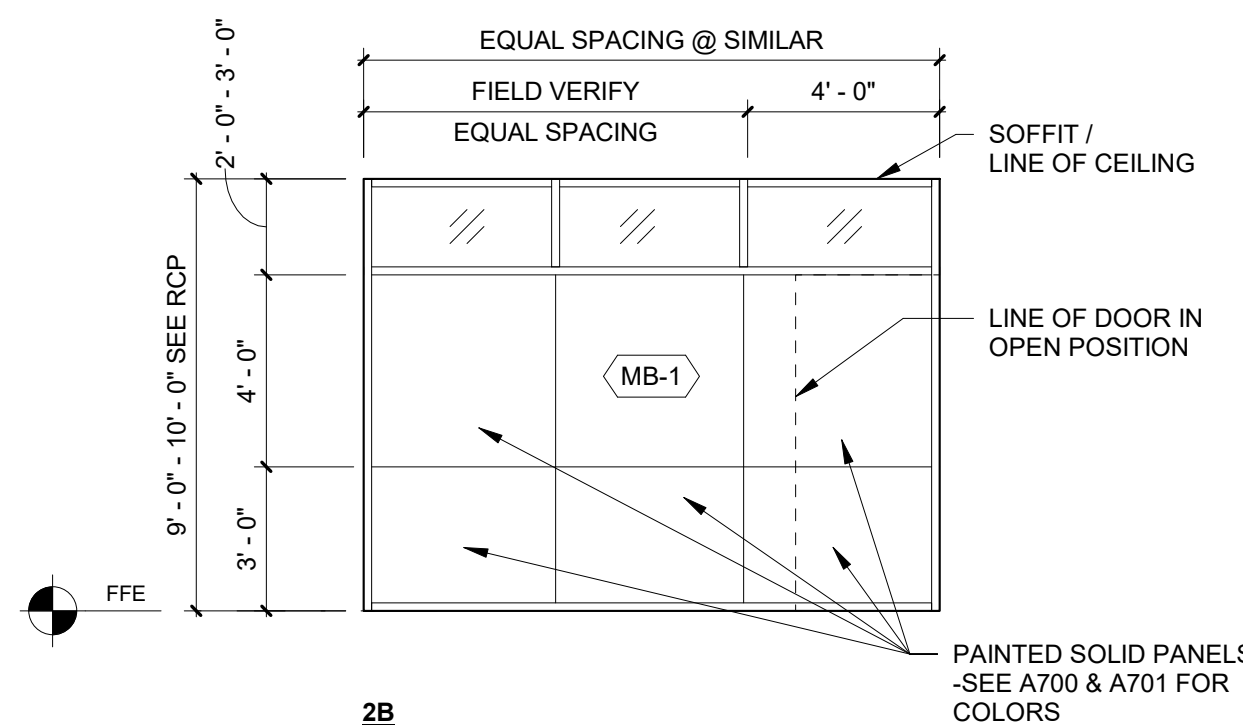
2D
PREFINISHED 4" ALUMINUM FRAME W/ COMBINATION WALL OF SOLID PAINTED PANELS, MARKER BOARD PANELS AND VERTICAL & HORIZONTAL MULLIONS W/ 1/4" TEMPERED DOUBLE PANE GLASS. FINISHES TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.



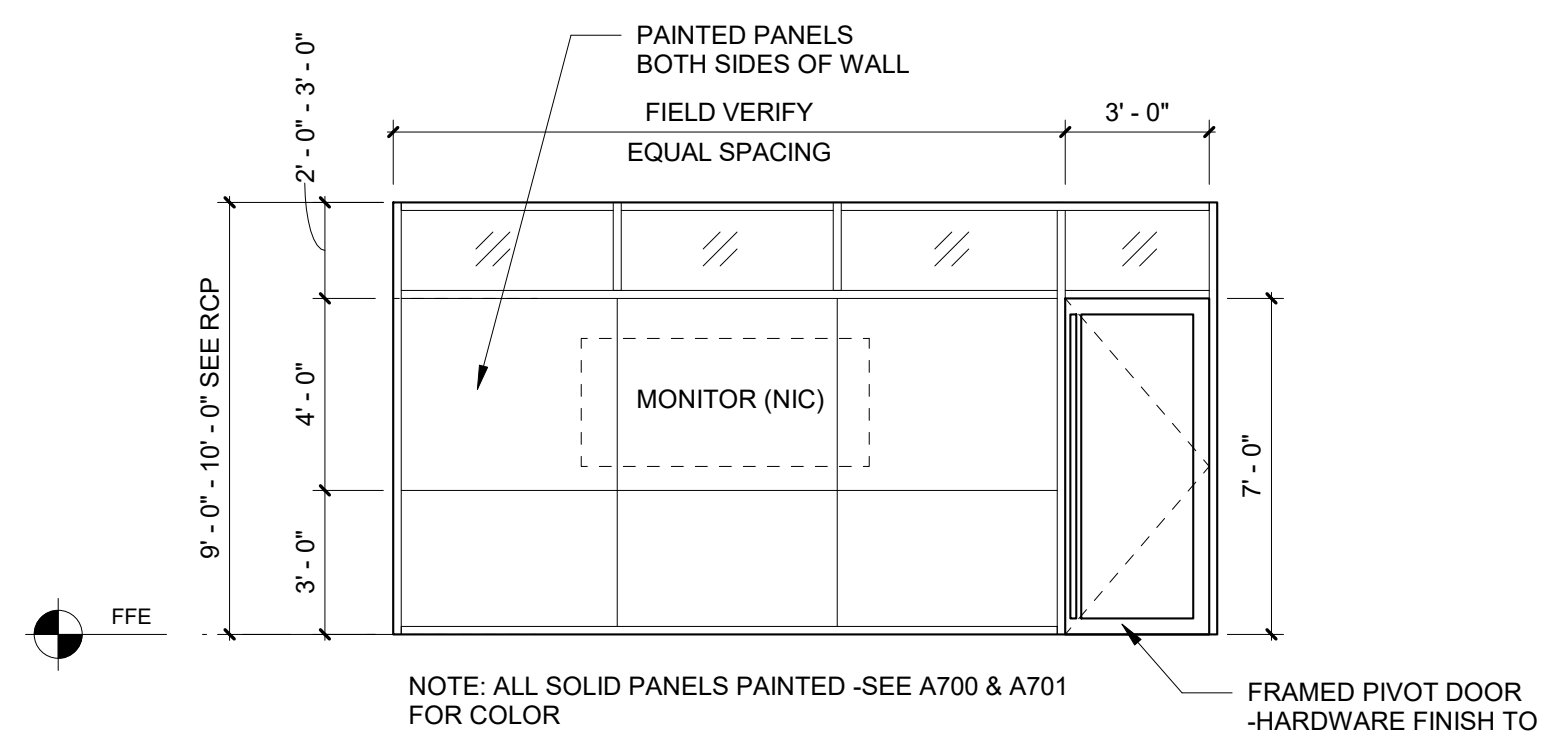
2C
PREFINISHED 4" ALUMINUM FRAME W/ COMBINATION WALL OF SOLID PAINTED PANELS & VERTICAL & HORIZONTAL MULLIONS W/ 1/4" TEMPERED DOUBLE PANE GLASS. FINISHES TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.



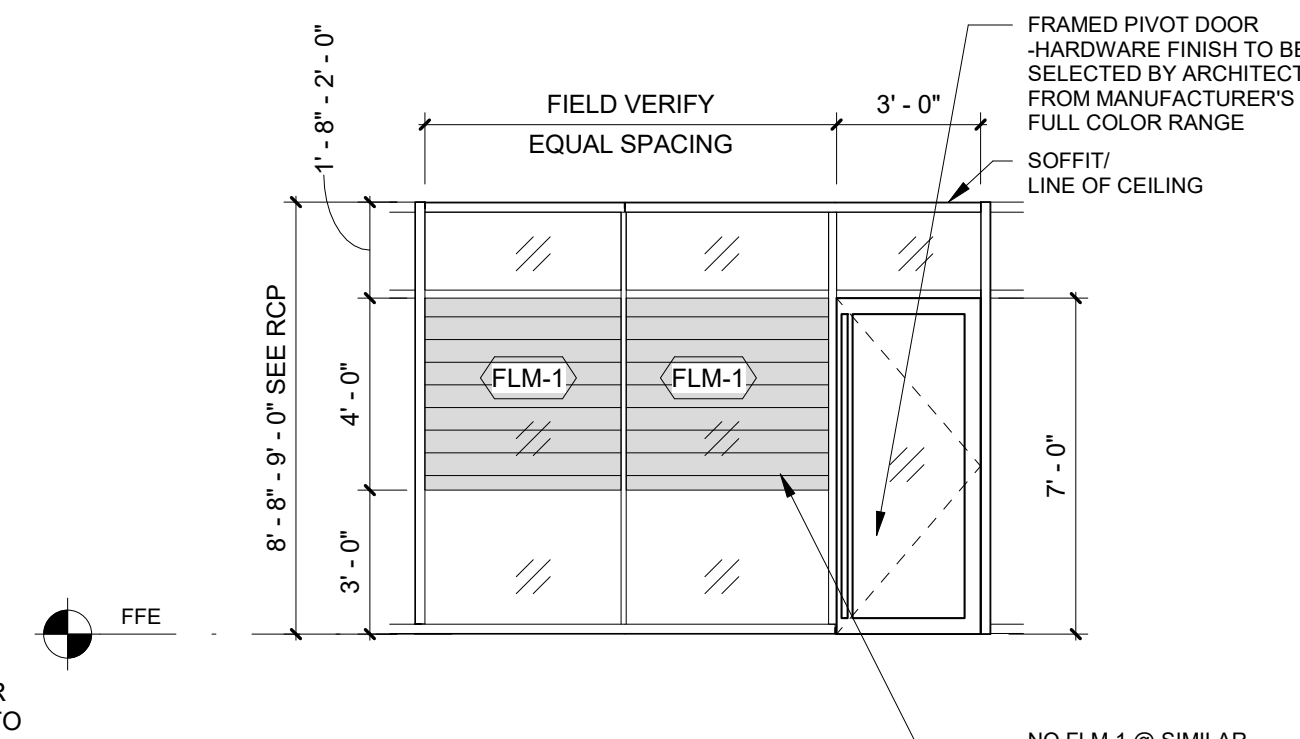
2F
PREFINISHED 4" ALUMINUM FRAME W/ COMBINATION WALL OF SOLID PAINTED PANELS & VERTICAL & HORIZONTAL MULLIONS W/ 1/4" TEMPERED DOUBLE PANE GLASS. FINISHES TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.



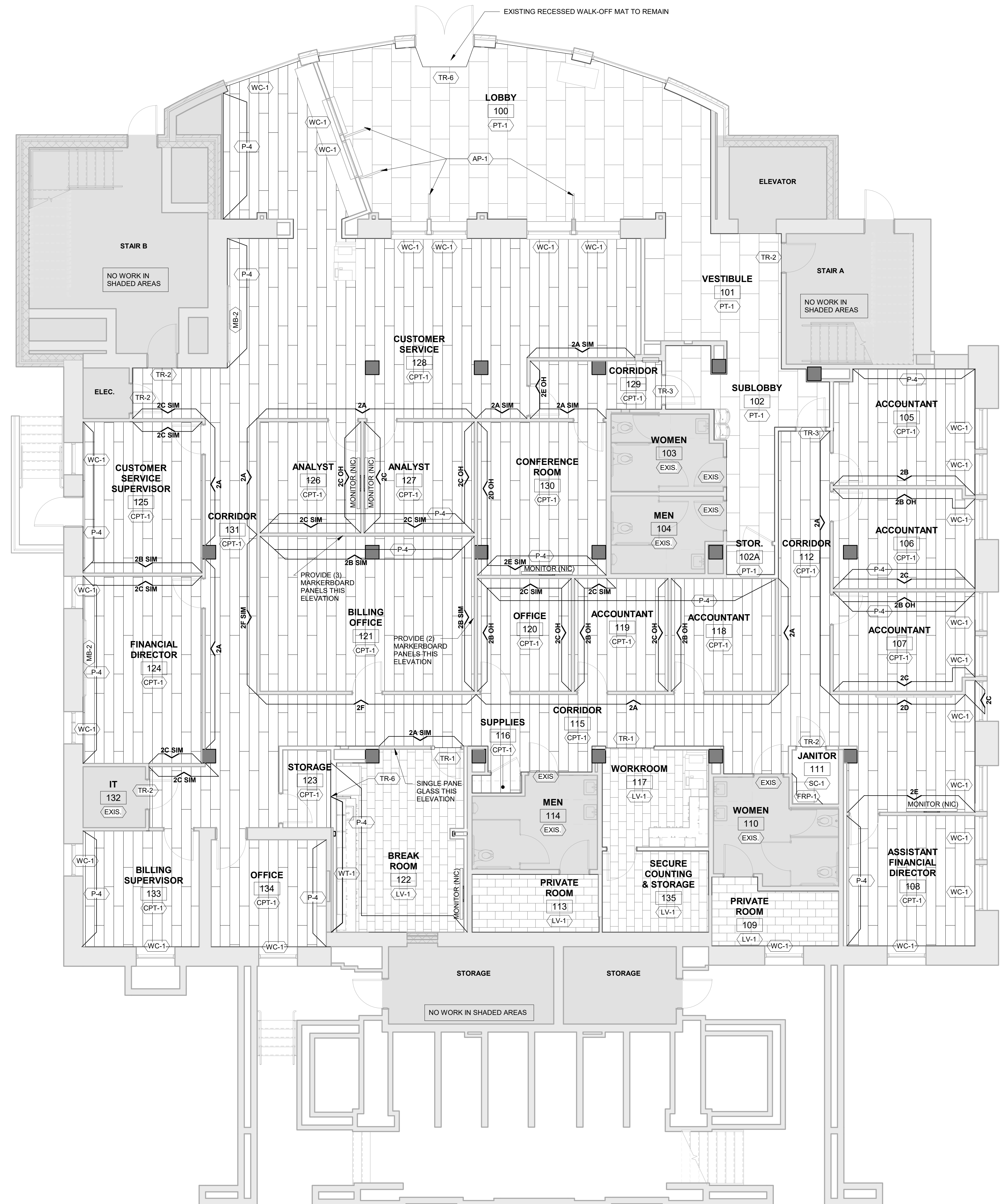
2B
PREFINISHED 4" ALUMINUM FRAME W/ COMBINATION WALL OF SOLID PAINTED PANELS, (1) MARKERBOARD PANEL AND VERTICAL & HORIZONTAL MULLIONS W/ 1/4" TEMPERED DOUBLE PANE GLASS. FINISHES TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.



2E
PREFINISHED 4" ALUMINUM FRAME W/ COMBINATION WALL OF SOLID PAINTED PANELS & VERTICAL & HORIZONTAL MULLIONS W/ 1/4" TEMPERED DOUBLE PANE GLASS. FINISHES TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.

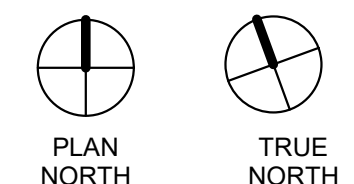


2A
PREFINISHED 4" ALUMINUM FRAME W/ VERTICAL & HORIZONTAL MULLIONS & 1/4" TEMPERED DOUBLE PANE GLASS. FINISHES TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL COLOR RANGE.



NOTE: SEE 2/A701 FOR DEMOUNTABLE WALL PARTITION ELEVATIONS

WALL LEGEND
EXISTING WALL
NEW WALL
NEW DEMOUNTABLE PARTITION



REFLECTED CEILING PLAN SYMBOL LEGEND:	GENERAL NOTES:
	1) ALL CEILING HEIGHTS ARE RELATIVE TO FINISH FLOOR ELEVATION IN THAT ROOM U.N.O.
	2) SEE ELECTRICAL DRAWINGS FOR LOCATION OF ALL EMERGENCY LIGHTS, NIGHT LIGHTS, EXIT SIGNS, HORNS, STROBES, & PULL STATIONS
	3) ALL LIGHT FIXTURES, SPEAKERS, ECT. IN CEILING TYPES ARE TO MATCH CEILING FINISH COLOR U.N.O.
	4) ALL GYPSUM BOARD BULKHEADS TO BE AT 6" BELOW LOWEST ADJACENT CEILING U.N.O.
	5) ALL CEILINGS ARE TO BE CONSTRUCTED AS REQUIRED BY ASCE 7 CHAPTER 13 AND ANCHORED PER NCSCB SECTION 1613
	CEILING TYPES:
	TYPE #1: 24"x24"x5/8" LAY-IN ACOUSTICAL CEILING - WHITE W/ WHITE ALUM GRID
	TYPE #2: (SHOWN HATCHED) 24"x24"x5/8" HIGH CAC LAY-IN ACOUSTICAL CEILING, WHITE W/ WHITE ALUM. GRID. CONTRACTOR TO PROVIDE 3 1/2" SOUND BATT'S ABOVE CLG. THIS AREA
	TYPE #3: GYPSUM BOARD CEILING/SOFFIT - PAINTED (PROVIDE MOIST. RESIST. GYP. BD AND EPOXY PAINT AT ALL WET LOCATIONS U.N.O.) (P-5)
	TYPE #4: OPEN TO STRUCTURE - NOT PAINTED



FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

MINOR REVISIONS & COORDINATION THIS SHEET

REFLECTED CEILING PLAN

DATE: 11.21.22
PROJECT NO: 22029

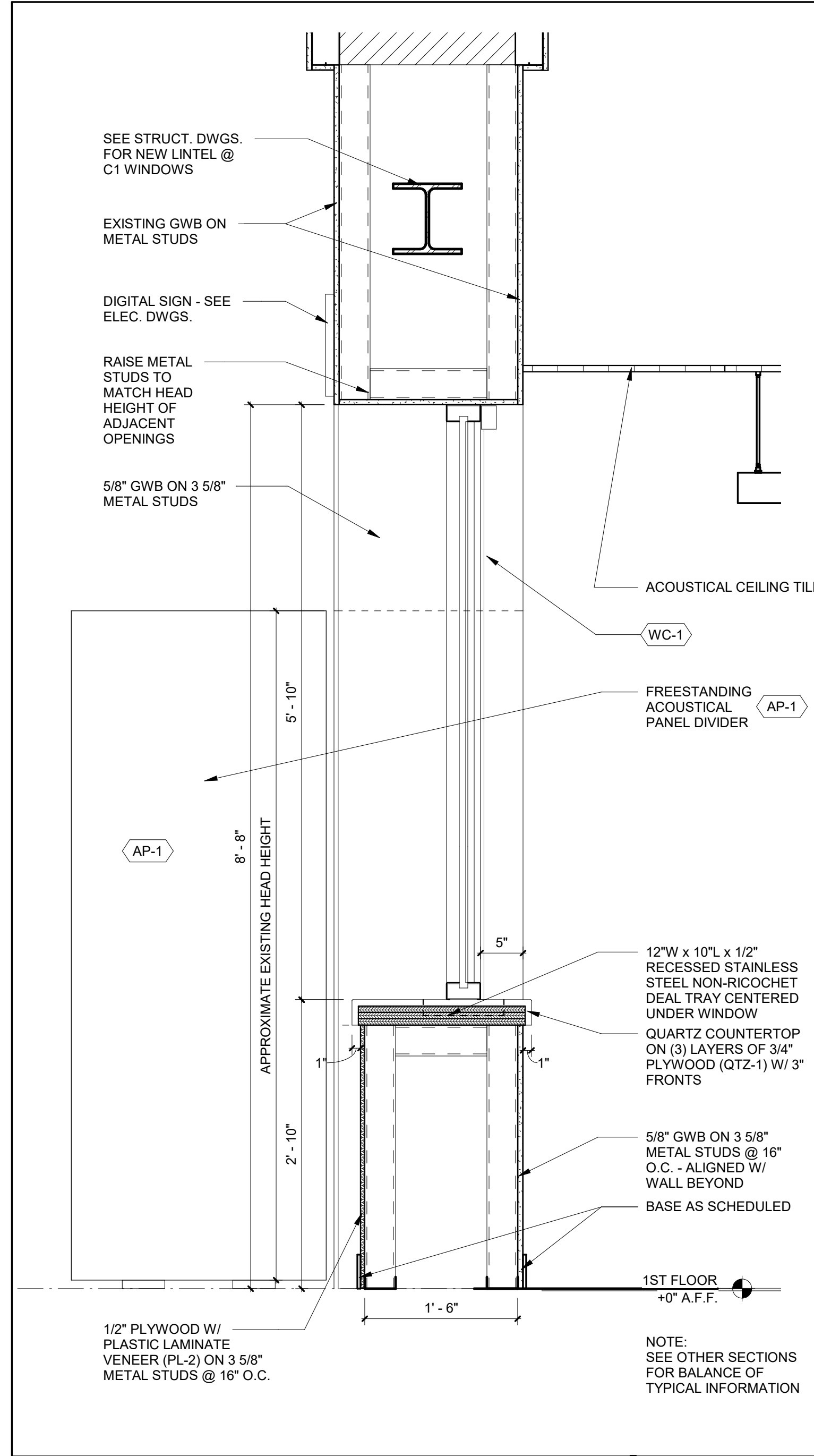
REVISIONS
NO: DATE DESCRIPTION
1 12.22.22 REVISION 1

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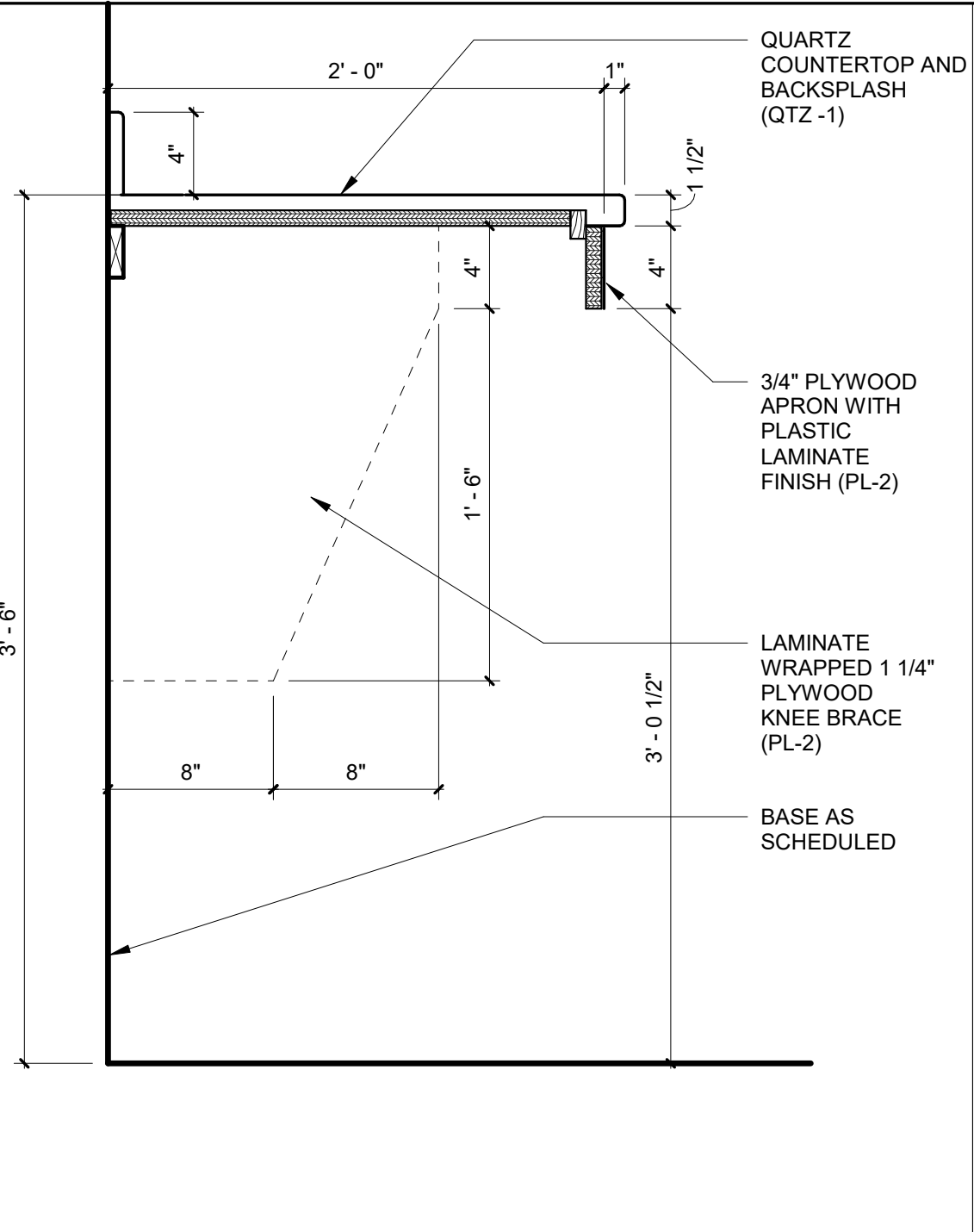


SHEET NUMBER

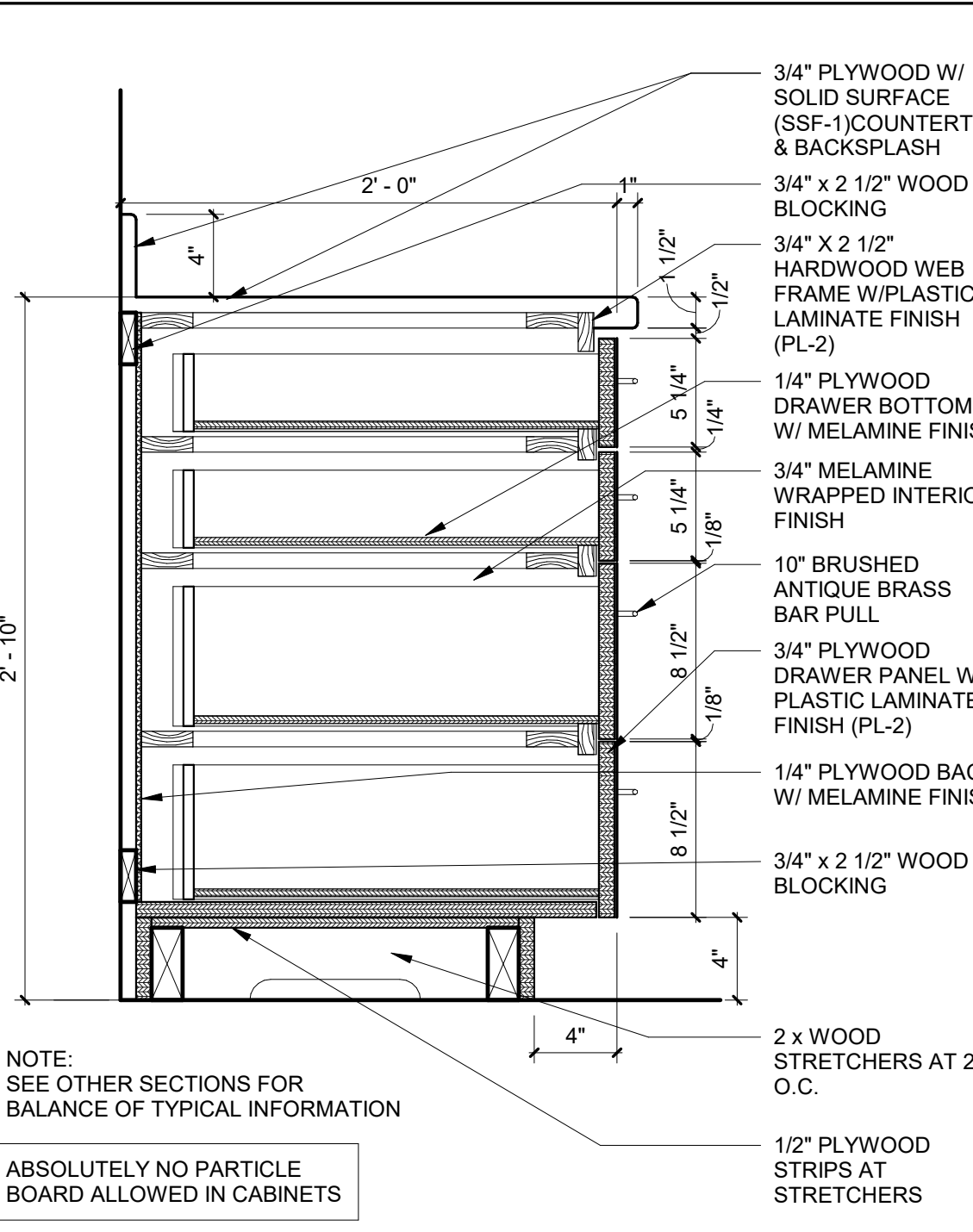
A800



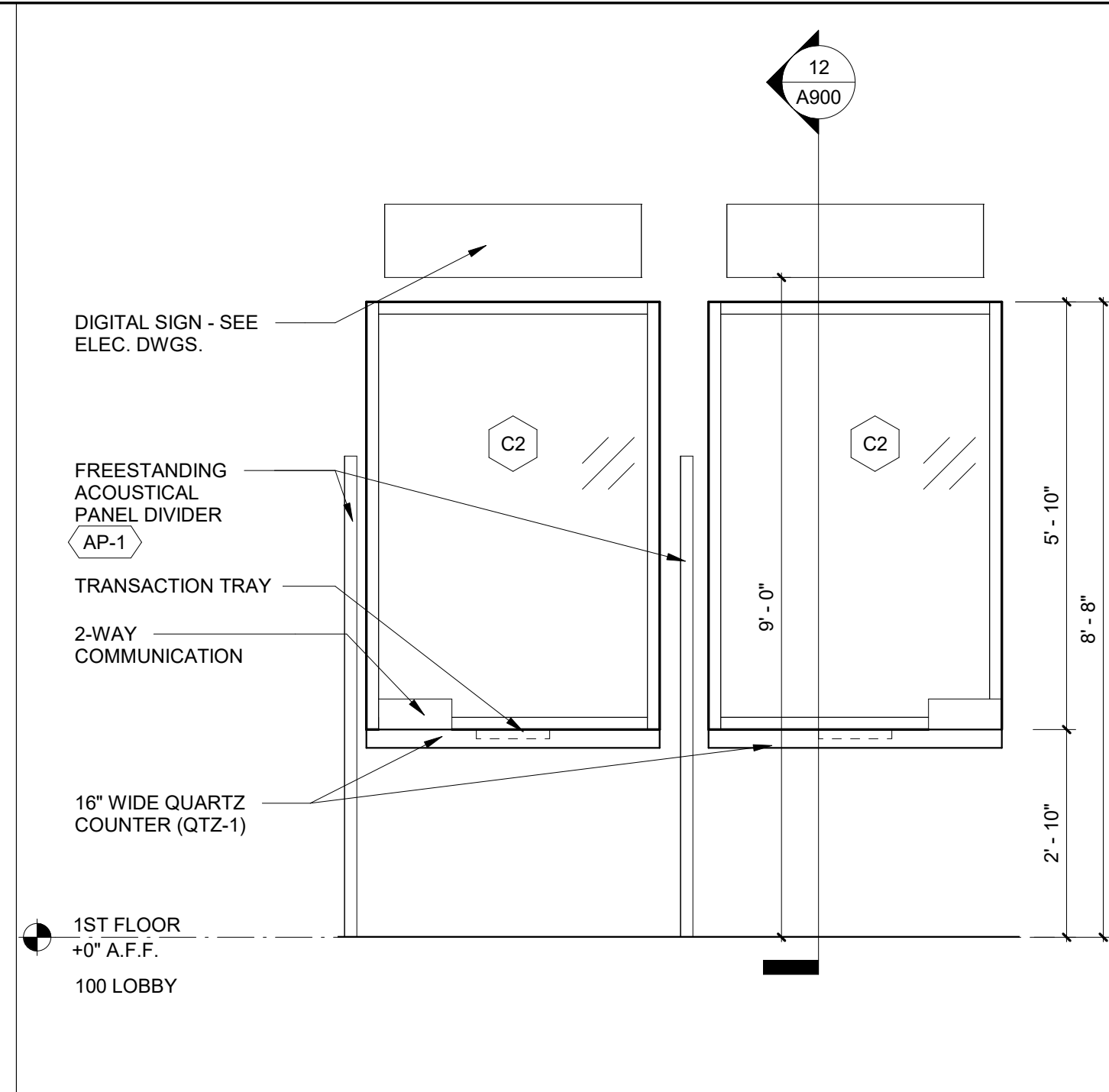
TRANSACTION COUNTER SECTION | 1" = 1'-0" | 13



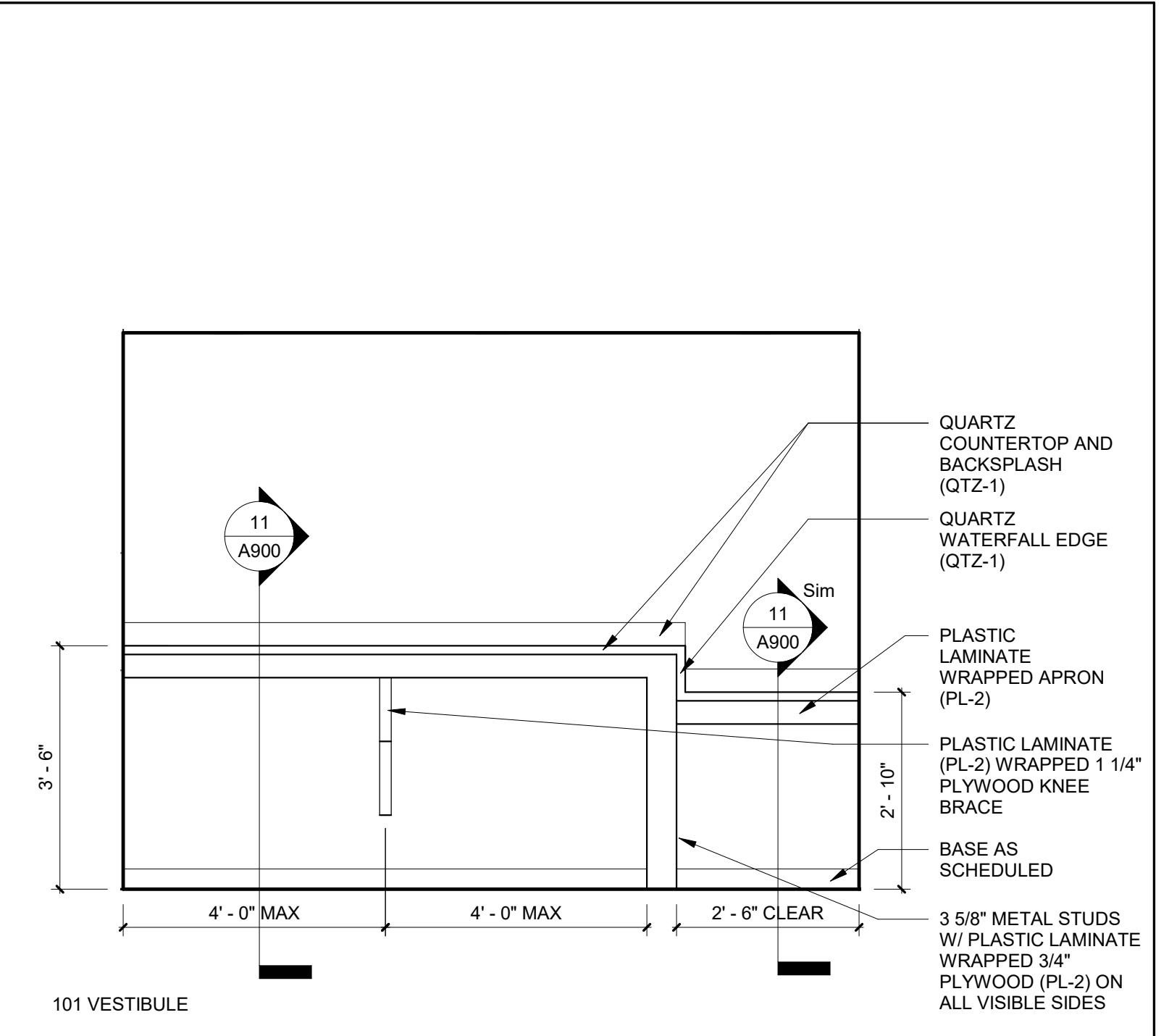
CASEWORK SECTION | 1 1/2" = 1'-0" | 11



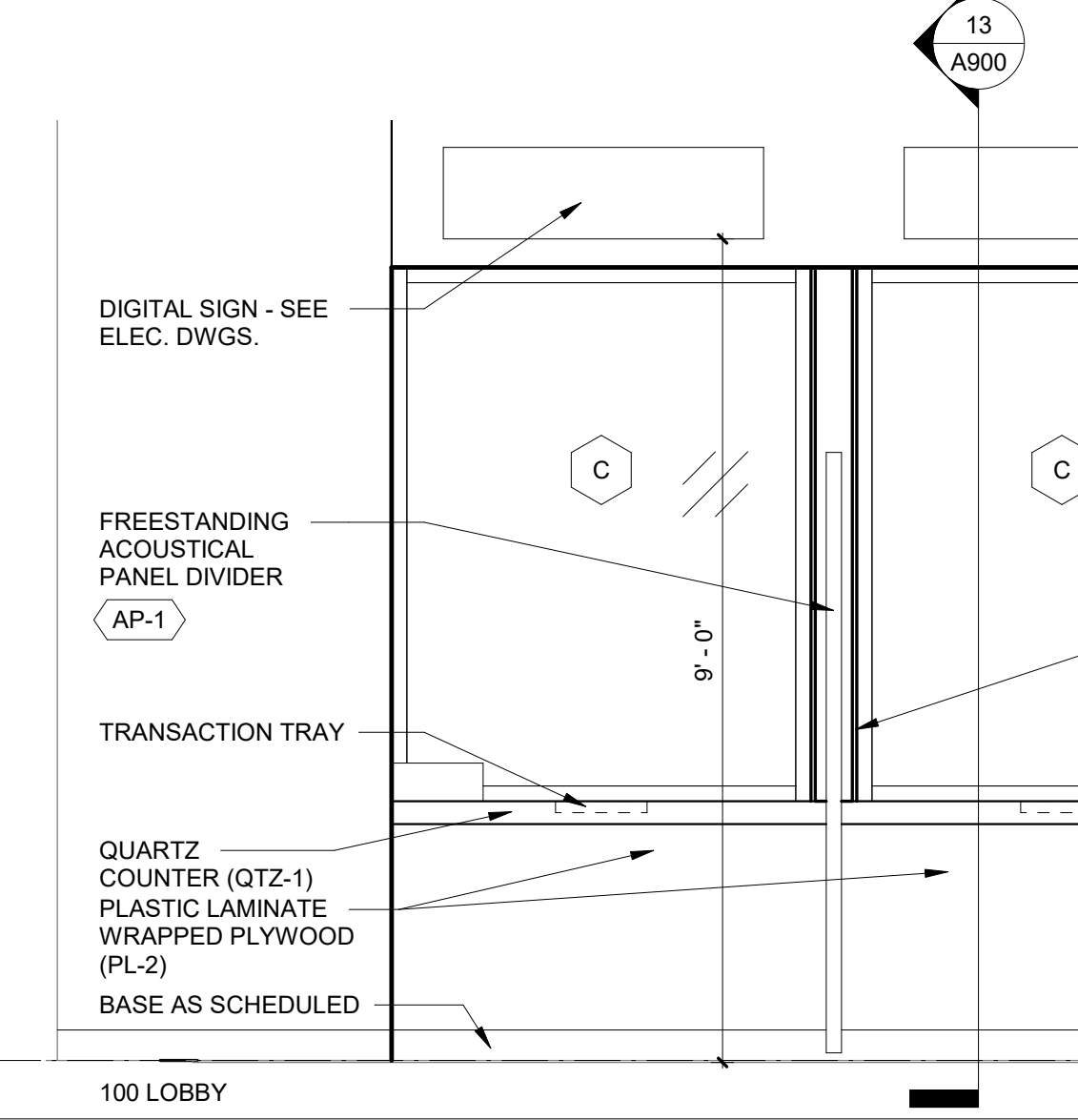
CASEWORK SECTION | 1 1/2" = 1'-0" | 9



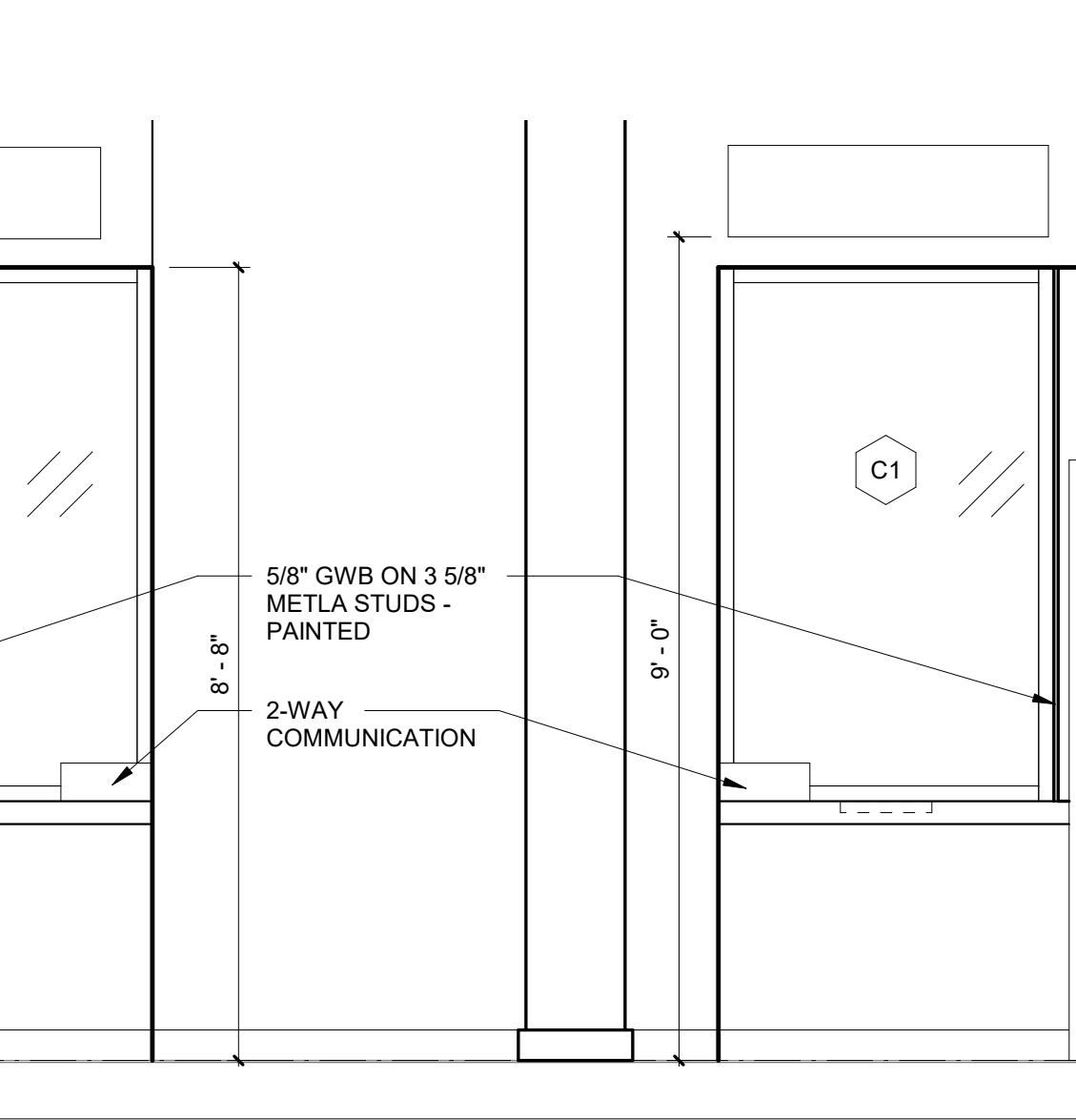
INTERIOR ELEVATION | 1/2" = 1'-0" | 7



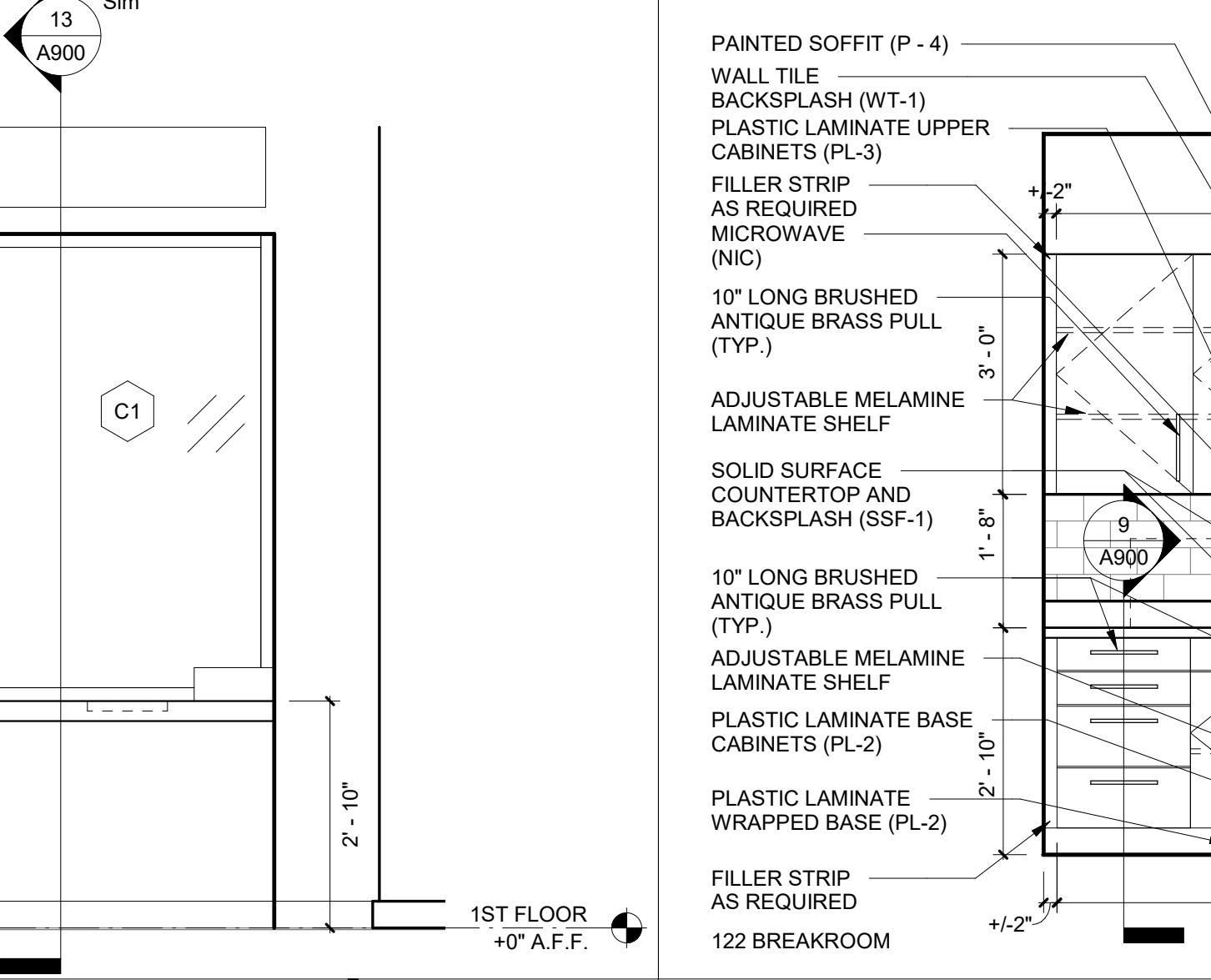
CASEWORK ELEVATION | 1/2" = 1'-0" | 4



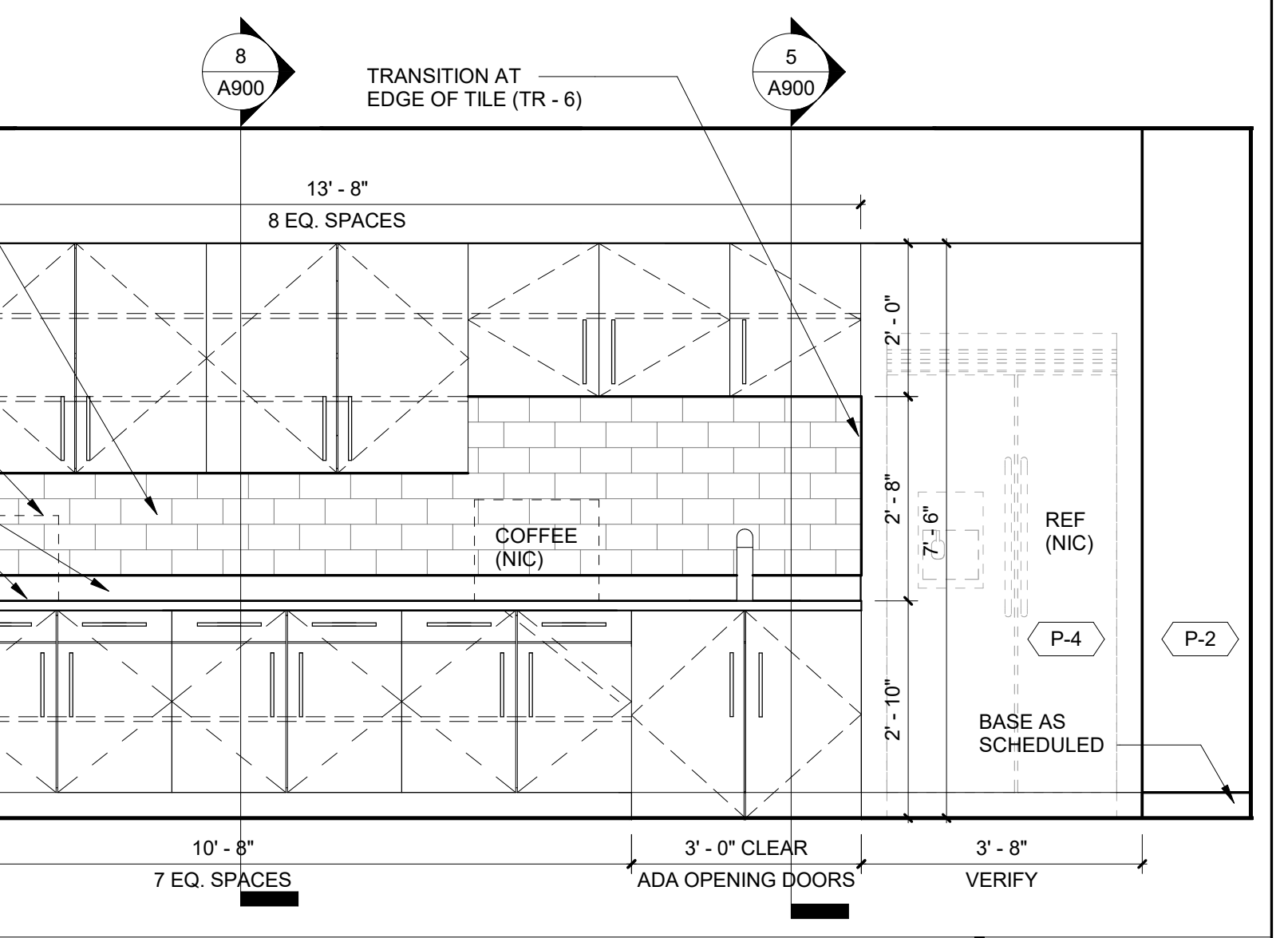
INTERIOR ELEVATION | 1/2" = 1'-0" | 11



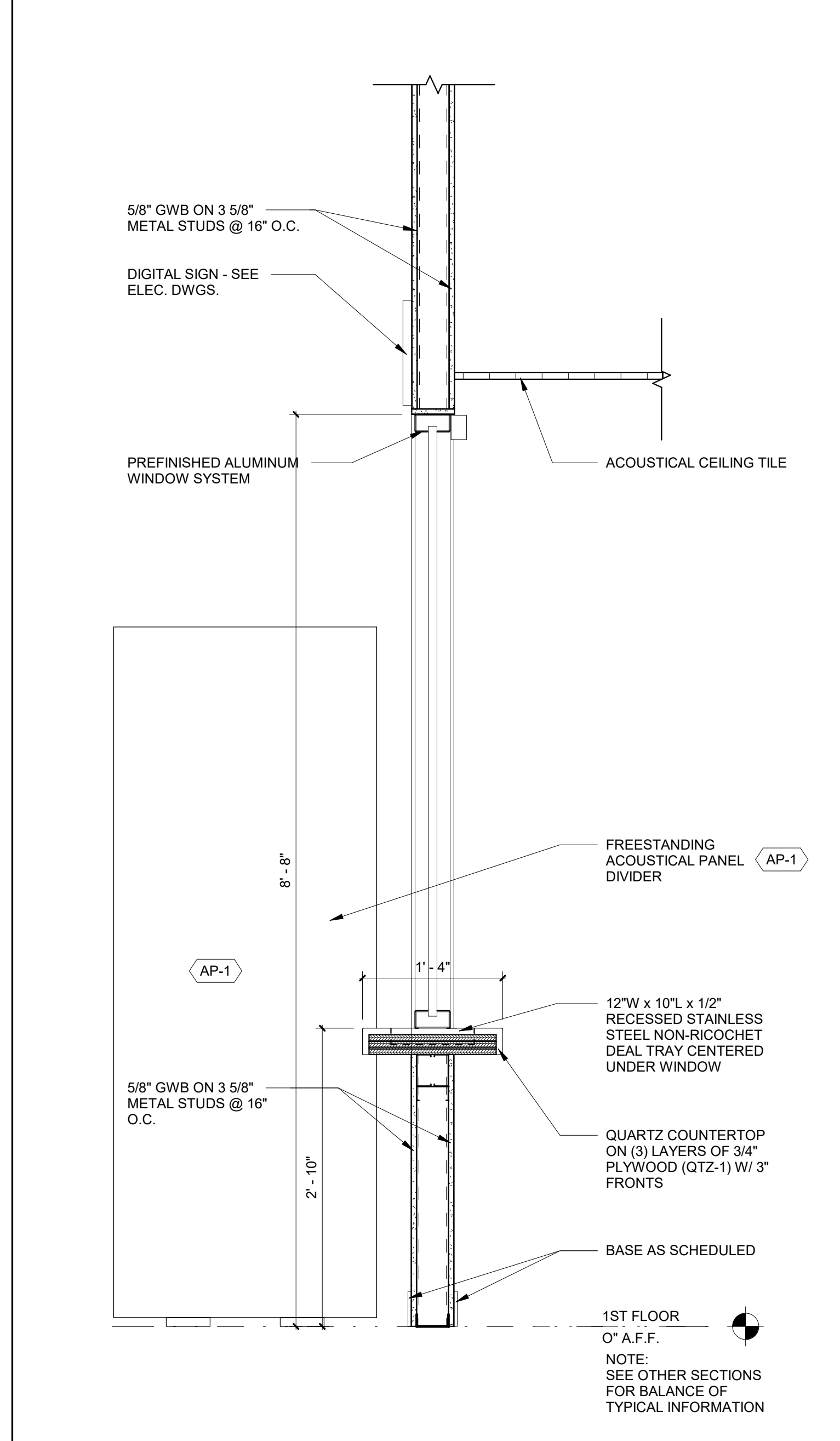
INTERIOR ELEVATION | 1/2" = 1'-0" | 9



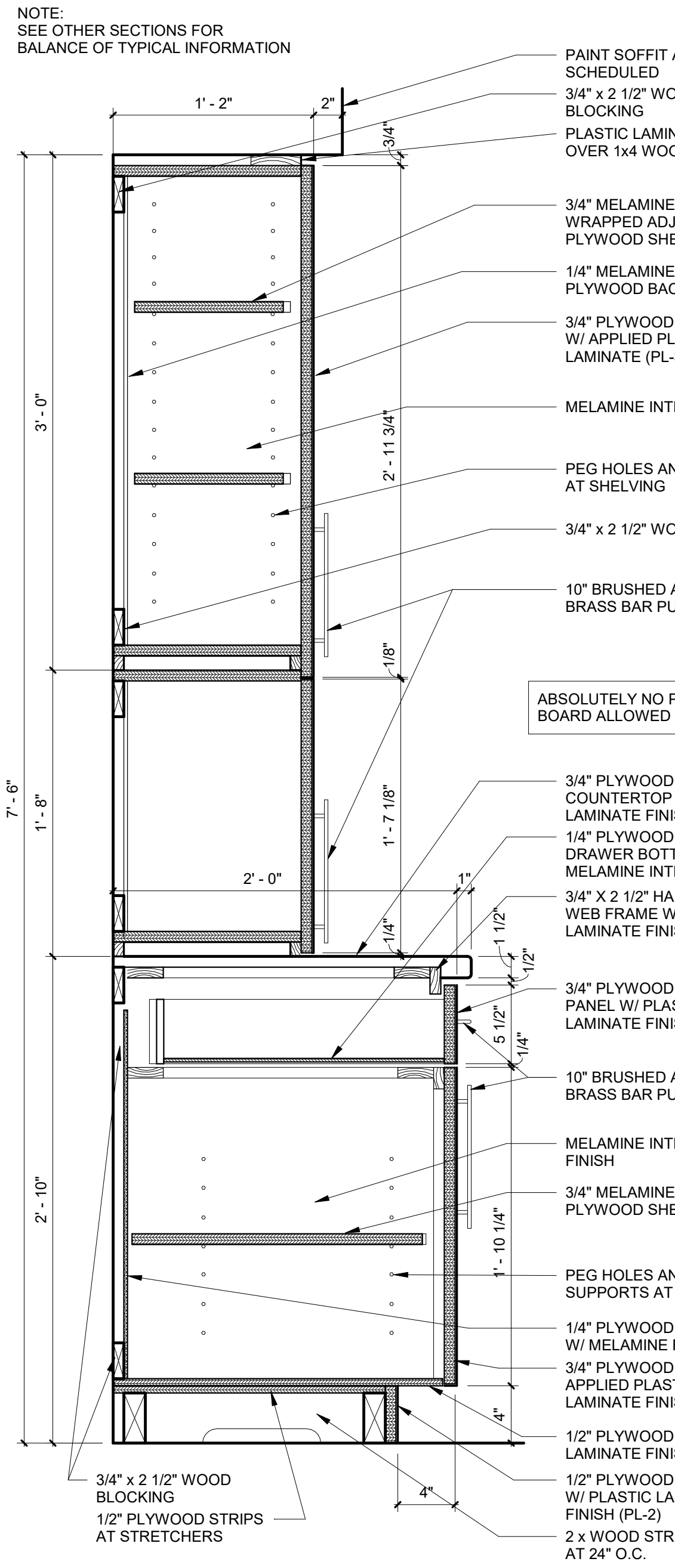
INTERIOR ELEVATION | 1/2" = 1'-0" | 6



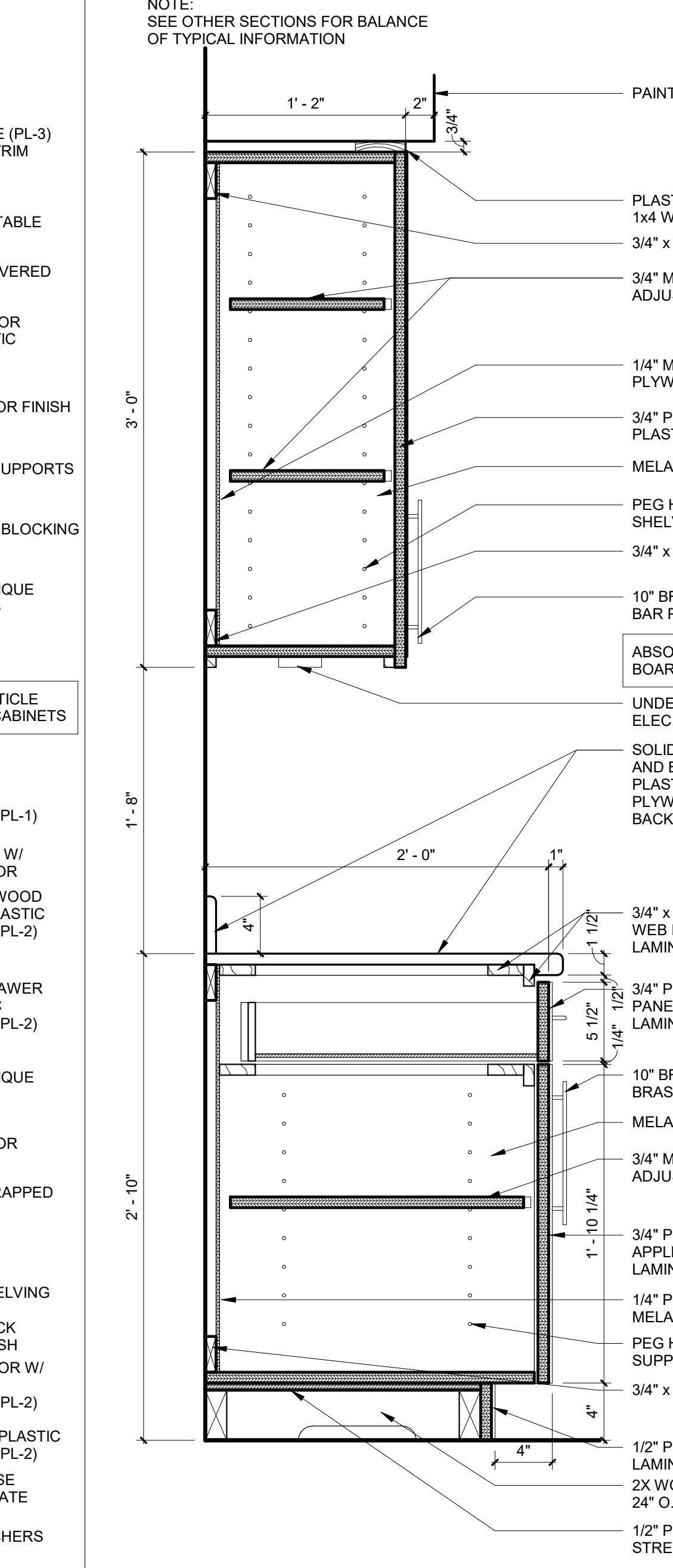
CASEWORK ELEVATION | 1/2" = 1'-0" | 3



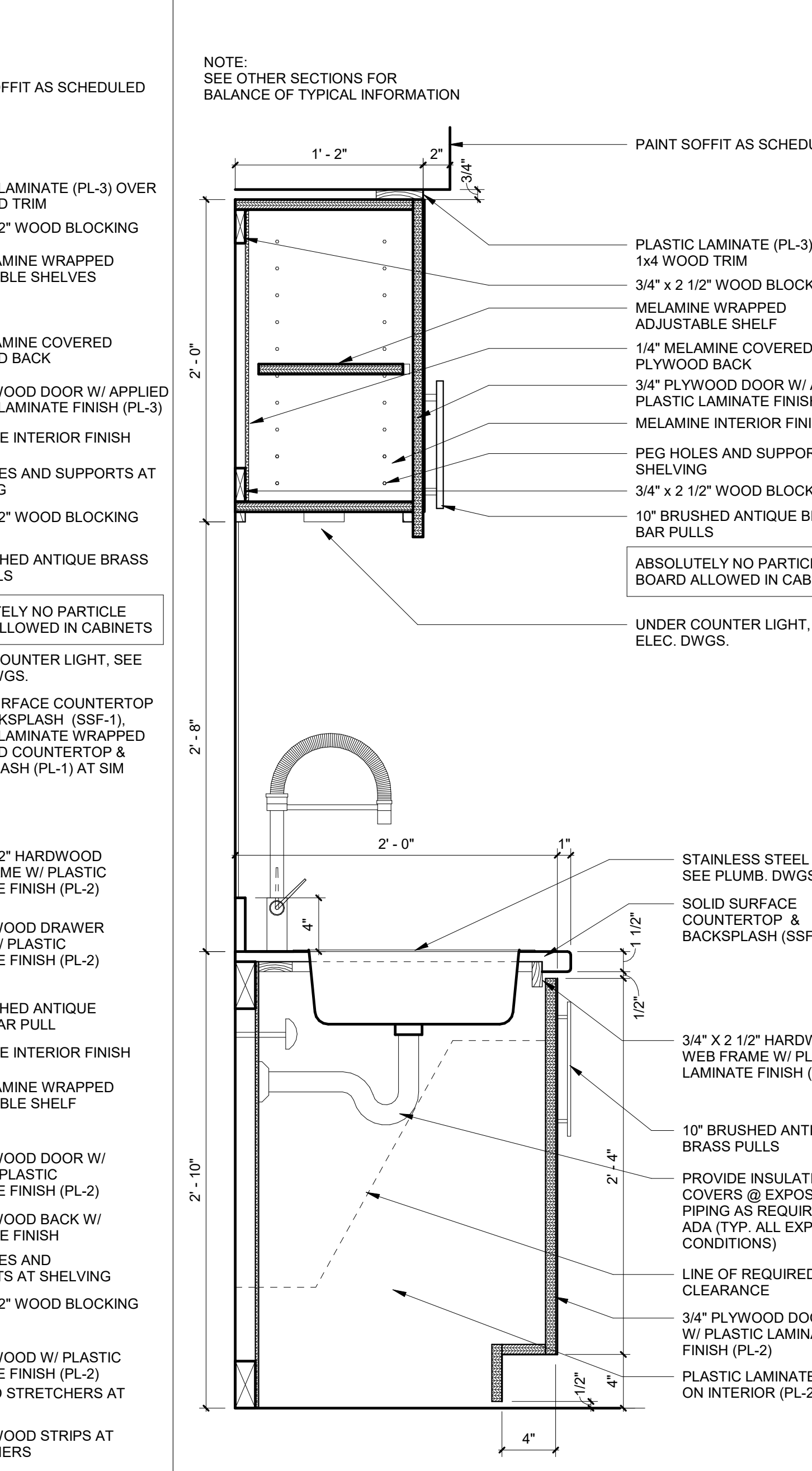
TRANSACTION COUNTER SECTION | 1" = 1'-0" | 12



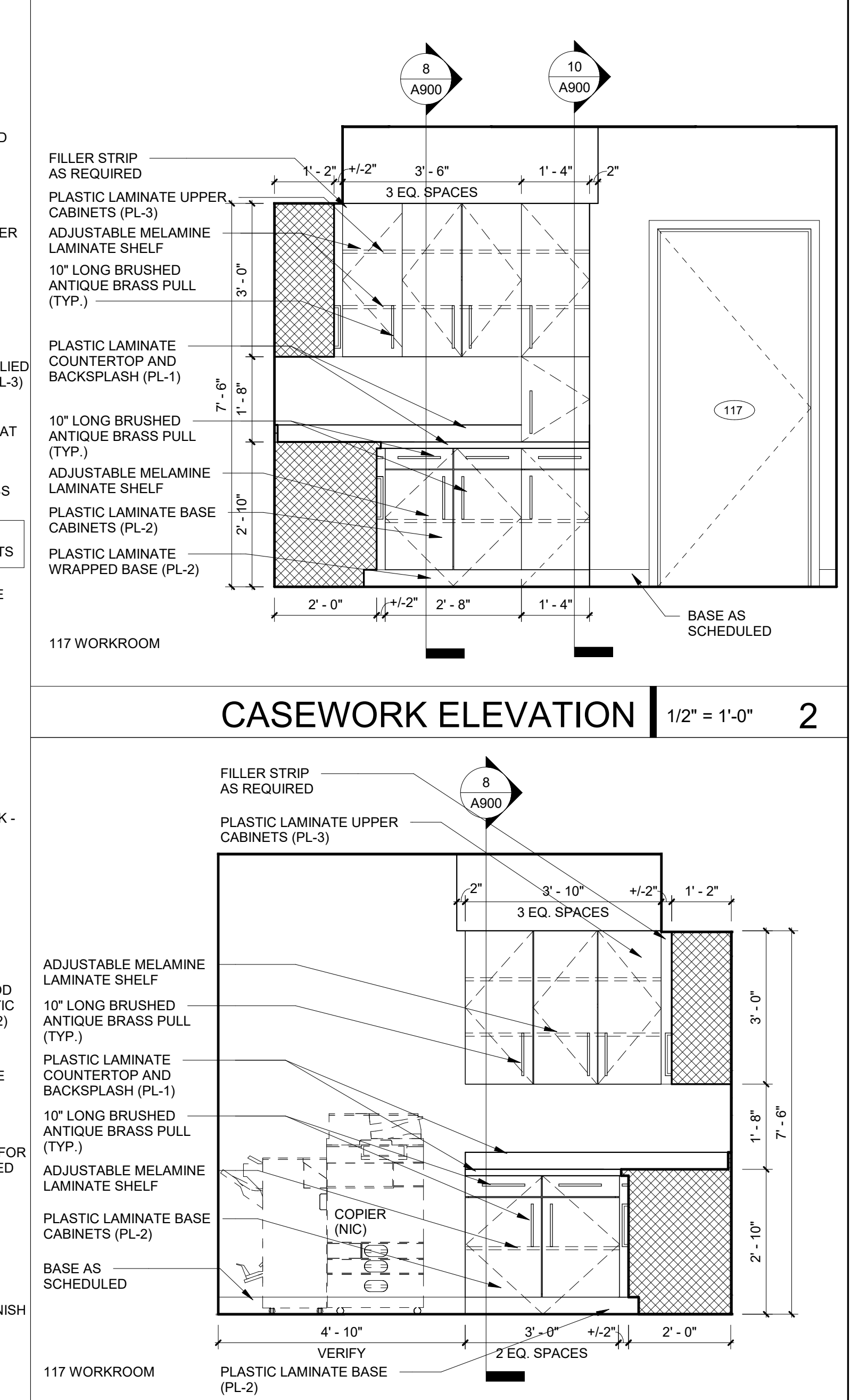
CASEWORK SECTION | 1 1/2" = 1'-0" | 10



CASEWORK SECTION | 1 1/2" = 1'-0" | 8



CASEWORK SECTION | 1 1/2" = 1'-0" | 5



CASEWORK ELEVATION | 1/2" = 1'-0" | 2

FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

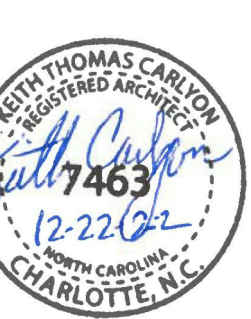
MINOR REVISIONS & COORDINATION THIS SHEET

CASEWORK ELEVATIONS & SECTIONS

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: 1 DATE: 12.22.22 DESCRIPTION: REVISION 1

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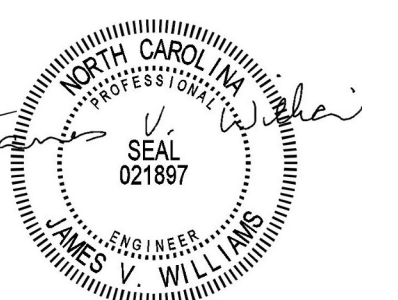


SHEET NUMBER
A900



STEWART

101 N TRYON ST SUITE 1400 CHARLOTTE, NC 28202 F 704.334.7925 FIRM LICENSE #C-1051 S22128.00



11/21/2022

FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

STATEMENT OF SPECIAL INSPECTION

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE: DESCRIPTION:

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SHEET NUMBER

S011

STATEMENT OF SPECIAL INSPECTIONS			
THIS STATEMENT OF SPECIAL INSPECTIONS IS SUBMITTED AS A CONDITION FOR PERMIT ISSUANCE IN ACCORDANCE WITH THE SPECIAL INSPECTION REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTION SERVICES APPLICABLE TO THIS PROJECT, THE NAME OF THE SPECIAL INSPECTOR, THE IDENTITY OF OTHER APPROVED AGENCIES RETAINED FOR CONDUCTING SPECIAL INSPECTIONS, AND THE REQUIRED INSPECTOR QUALIFICATIONS. THIS STATEMENT OF SPECIAL INSPECTIONS WAS PREPARED BY THE DESIGNERS OF RECORD.			
THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF ALL SPECIAL INSPECTIONS AND TESTS AND SHALL FURNISH REPORTS TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. REPORTS SHALL INDICATE IF THE WORK INSPECTED OR TESTED WAS OR WAS NOT COMPLETED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DISCOVERED DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF SUCH DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND THE DESIGNERS OF RECORD. THE SPECIAL INSPECTIONS PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER RESPONSIBILITIES. JOB SITE SAFETY AND MEANS AND METHODS OF CONSTRUCTION ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.			
MONTHLY INTERIM REPORTS SHALL BE SUBMITTED TO THE CONTRACTOR, OWNER, AND THE DESIGNERS OF RECORD. A FINAL REPORT OF SPECIAL INSPECTIONS DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING, AND CORRECTION OF ANY DISCREPANCIES SHOULD BE SUBMITTED PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.			
PROJECT INFORMATION			
CODE ENFORCEMENT PROJECT #:	---		
PERMIT #:	---		
PROJECT NAME:	RENOVATIONS TO HENDERSONVILLE CITY HALL		
PROJECT ADDRESS:	160 6TH AVE, HENDERSONVILLE, NC 28792		
OWNER:	CITY OF HENDERSONVILLE, NC		
OWNER ADDRESS:	160 6TH AVE, HENDERSONVILLE, NC 28792		
SPECIAL INSPECTOR OF RECORD:	TBD		
SPECIAL INSPECTOR ADDRESS:	STREET ADDRESS CITY, STATE ZIP		
DESIGN TEAM			
STRUCTURAL (RDP/IRC) FIRM:	STEWART	ENGINEER OF RECORD:	JAMES V WILLIAMS, PE
ARCHITECTURAL FIRM:	ADW ARCHITECTS	ARCHITECT OF RECORD:	JAMES POWELL, AIA
MECHANICAL FIRM:	RNM ENGINEERS	ENGINEER OF RECORD:	MARK R MCDOWELL, PE

SCHEDULE OF SPECIAL INSPECTIONS			
THE INSPECTION AND TESTING AGENTS SHALL BE ENGAGED BY THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT, AND NOT BY THE CONTRACTOR OR SUBCONTRACTOR WHOSE WORK IS TO BE INSPECTED OR TESTED. ANY CONFLICT OF INTEREST MUST BE DISCLOSED TO THE OWNER, PRIOR TO COMMENCING WORK.			
PRIOR TO STARTING WORK THE OWNER SHALL BE PROVIDED WITH THE NAME AND RESUME FOR THE DESIGNATED SPECIAL INSPECTOR FOR THE PROJECT. THE DESIGNATED SPECIAL INSPECTOR SHALL BE A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT LICENSED IN THE STATE IN WHICH THE PROJECT IS LOCATED AND BE APPROVED BY THE OWNER. INDIVIDUALS PROVIDING INSPECTIONS SHALL MEET THE FOLLOWING MINIMUM CRITERIA OF CERTIFICATION AND/OR DOCUMENTED EXPERIENCE. WORK EXPERIENCE MUST BE RELATED TO THE FIELD FOR WHICH THE INSPECTOR IS BEING UTILIZED. WORK EXPERIENCE MAY BE GAINED BY WORKING FOR AN INSPECTION/TESTING AGENCY, AN ENGINEERING FIRM, OR A CONTRACTOR AS A TECHNICIAN, INSPECTOR OR ENGINEER.			
THE DESIGNATED SPECIAL INSPECTOR SHALL BE RESPONSIBLE FOR COLLECTING AND APPROVING DOCUMENTATION OF QUALIFICATIONS FOR ALL INSPECTORS. COPIES OF DOCUMENTATION OF QUALIFICATIONS, INCLUDING THE QUALIFICATIONS OF THE INDEPENDENT TESTING LABORATORY IF THEY ARE PROVIDING SPECIAL INSPECTION SERVICES, SHALL BE MAINTAINED BY THE SPECIAL INSPECTOR AND BE MADE AVAILABLE FOR OWNER REVIEW AS REQUESTED.			
THE FOLLOWING TABLES COMPRISE THE REQUIRED SCHEDULE OF SPECIAL INSPECTIONS FOR THIS PROJECT. THE INSPECTION FREQUENCY INDICATED ON THE TABLES ARE "C" CONTINUOUS, "P" PERIODIC, AND "O" RANDOMIZED ON A DAILY BASIS. THE CONSTRUCTION DIVISIONS WHICH REQUIRE SPECIAL INSPECTIONS FOR THIS PROJECT ARE AS FOLLOWS:			
REQD	ITEM	DIVISION	PRIMARY INSPECTOR/SUPERVISOR
<input checked="" type="checkbox"/>	IT-1	SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED	AS IDENTIFIED BY THE RDP/IRC
<input type="checkbox"/>	IT-2A	STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
<input type="checkbox"/>	IT-2B	WELDING OF STRUCTURAL STEEL	ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR AWS D1.1 CERTIFIED WELDING INSPECTOR, OR NDT LEVEL III CERTIFICATE
<input type="checkbox"/>	IT-2C	COLD-FORMED STEEL DECKING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
<input type="checkbox"/>	IT-2D	OPEN-WEB STEEL JOISTS AND JOIST GIRDERS	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
<input type="checkbox"/>	IT-2E	COLD-FORMED STEEL FRAMING	ICC STRUCTURAL STEEL AND BOLTING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC STRUCTURAL WELDING SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
<input type="checkbox"/>	IT-3	CONCRETE CONSTRUCTION	ICC REINFORCED CONCRETE SPECIAL INSPECTOR CERTIFICATE AND ACI CONCRETE FIELD TESTING TECHNICIAN CERTIFICATE, GRADE 1, OR ACI CONCRETE CONSTRUCTION SPECIAL INSPECTOR CERTIFICATE, OR NICET CONCRETE TECHNICIAN LEVEL III CERTIFICATE IN CONSTRUCTION MATERIALS TESTING
<input type="checkbox"/>	IT-4	MASONRY CONSTRUCTION	ICC STRUCTURAL MASONRY SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
<input type="checkbox"/>	IT-5	WOOD CONSTRUCTION	ICC COMMERCIAL BUILDING INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
<input type="checkbox"/>	IT-6	SOILS	NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR GENERALIST CERTIFICATE, OR ICC SOILS SPECIAL INSPECTOR CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE), OR ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR OF RELATED EXPERIENCE
<input type="checkbox"/>	IT-7	DRIVEN DEEP FOUNDATIONS	NICET SOILS TECHNICIAN LEVEL II CERTIFICATE IN CONSTRUCTION MATERIALS TESTING, OR NICET GEOTECHNICAL ENGINEERING TECHNICIAN LEVEL II CONSTRUCTION OR GENERALIST CERTIFICATE, OR ENGINEER-IN-TRAINING (EIT) WITH ONE YEAR OF RELATED EXPERIENCE, OR GEOLOGIST-IN-TRAINING (GIT) WITH ONE YEAR OF RELATED EXPERIENCE
<input type="checkbox"/>	IT-8	CAST-IN-PLACE DEEP FOUNDATIONS	SEE IT-7
<input checked="" type="checkbox"/>	IT-9A	HELICAL PILE FOUNDATIONS	SEE IT-7
<input type="checkbox"/>	IT-9B	RAMMED AGGREGATE PIERS AND STONE COLUMNS	SEE IT-7
<input type="checkbox"/>	IT-10	FABRICATED ITEMS	AS NOTED HEREIN FOR EACH COMPONENT TYPE
<input type="checkbox"/>	IT-11	WIND RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE
<input type="checkbox"/>	IT-12	SEISMIC RESISTANCE	AS NOTED HEREIN FOR EACH COMPONENT TYPE
<input type="checkbox"/>	IT-13A	SEISMIC RESISTANCE, STRUCTURAL STEEL AND HIGH-STRENGTH BOLTING	AS NOTED HEREIN FOR EACH COMPONENT TYPE
<input type="checkbox"/>	IT-13B	SEISMIC RESISTANCE, WELDING OF STRUCTURAL STEEL	AS NOTED HEREIN FOR EACH COMPONENT TYPE
<input type="checkbox"/>	IT-13C	SEISMIC RESISTANCE, NON-DESTRUCTIVE TESTING OF WELDED JOINTS	AS NOTED HEREIN FOR EACH COMPONENT TYPE
<input type="checkbox"/>	IT-13D	SEISMIC RESISTANCE, STEEL DRIVEN DEEP FOUNDATIONS (H-PILES)	AS NOTED HEREIN FOR EACH COMPONENT TYPE
<input type="checkbox"/>	IT-14	SPRAYED FIRE-RESISTANT MATERIALS	ICC SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR CERTIFICATE, OR ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
<input type="checkbox"/>	IT-15	MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	SEE IT-14
<input type="checkbox"/>	IT-16	EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)	AWCI EIFS INSPECTOR CERTIFICATE
<input type="checkbox"/>	IT-17	FIRE-RESISTANT PENETRATIONS AND JOINTS	ICC FIRE INSPECTOR I CERTIFICATE (PLUS ONE YEAR OF RELATED EXPERIENCE)
<input type="checkbox"/>	IT-18	SMOKE CONTROL	REGISTERED PROFESSIONAL ENGINEER (MECHANICAL OR FIRE PROTECTION) AND CERTIFICATION AS AIR BALANCER, OR AABC TECHNICIAN CERTIFICATION (PLUS ONE YEAR OF RELATED EXPERIENCE)

IT-1: SPECIAL CASES AND SPECIFIC ELEMENTS ALWAYS REQUIRED			
INSPECTION TASK	FREQ	REFERENCE	
<input type="checkbox"/> 1. CONSTRUCTION MATERIALS AND SYSTEMS THAT ARE ALTERNATIVES TO MATERIALS AND SYSTEMS PRESCRIBED BY THE IBC.	P	IBC 1705.1.1.1	
<input type="checkbox"/> 2. UNUSUAL DESIGN APPLICATIONS OF MATERIALS DESCRIBED IN THE IBC.	P	IBC 1705.1.1.2	
<input type="checkbox"/> 3. MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN THE IBC OR IN STANDARDS REFERENCED BY THE IBC.	P	IBC 1705.1.1.3	
<input checked="" type="checkbox"/> 4. PILES, PIERS, AND SPECIAL FOUNDATIONS	P	IBC 1705.1.2.1	
<input type="checkbox"/> 5. SPRAYED FIRE-RESISTANT MATERIALS	P	IBC 1705.1.2.2	
<input type="checkbox"/> 6. MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS	P	IBC 1705.1.2.3	
<input type="checkbox"/> 7. SMOKE CONTROL AND SMOKE EXHAUST SYSTEMS	P	IBC 1705.1.2.4	
<input type="checkbox"/> 8. RETAINING WALLS (>5' IN HEIGHT OF UNBALANCED BACKFILL)	P	IBC 1705.1.2.5	
A. VERIFY FOUNDATION SUPPORT SYSTEM IS ADEQUATE FOR THE INTENDED SITE CONDITIONS.	P	IBC 1807.2.5.1	
B. VERIFY THAT RETAINING WALL MATERIALS AND INSTALLATIONS ARE IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.	P	IBC 1807.2.5.2	
C. VERIFY THAT ACTUAL SOIL CONDITIONS ARE SIMILAR TO THOSE ANTICIPATED BY THE APPROVED ENGINEERED DESIGN.	P	IBC 1807.2.5.3	
D. EXAMINE BACKFILL MATERIALS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS.	P	IBC 1807.2.5.4	
E. CONFIRM THAT ALL SUBSOIL DRAINAGE PIPING IS UNDAMAGED, DRAINS FREELY TO THE DESIGNATED OUTLET OR STRUCTURE, AND HAS BEEN INSTALLED PER THE APPROVED ENGINEERED DESIGN.	P	IBC 1807.2.5.4	
FOR SOILS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.6 AND THE APPLICABLE SCHEDULES HEREIN. FOR CONCRETE WALLS AND FOOTINGS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.3 AND THE APPLICABLE SCHEDULES HEREIN. FOR MASONRY WALLS PERFORM ADDITIONAL TESTS AND INSPECTIONS PER IBC 1705.4 AND THE APPLICABLE SCHEDULES HEREIN.			

IT-9A: HELICAL PILE FOUNDATIONS			
INSPECTION TASK	FREQ	REFERENCE	
1. OBSERVE INSTALLATION AND RECORD EQUIPMENT USED, PILE DIMENSIONS, LOCATION, AND FINAL DEPTH, TIP ELEVATIONS, FINAL INSTALLATION TORQUE, AND DOCUMENT ANY DAMAGE OR ANOMALIES.	C	IBC 1705.9	



FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

FOUNDATION PLAN

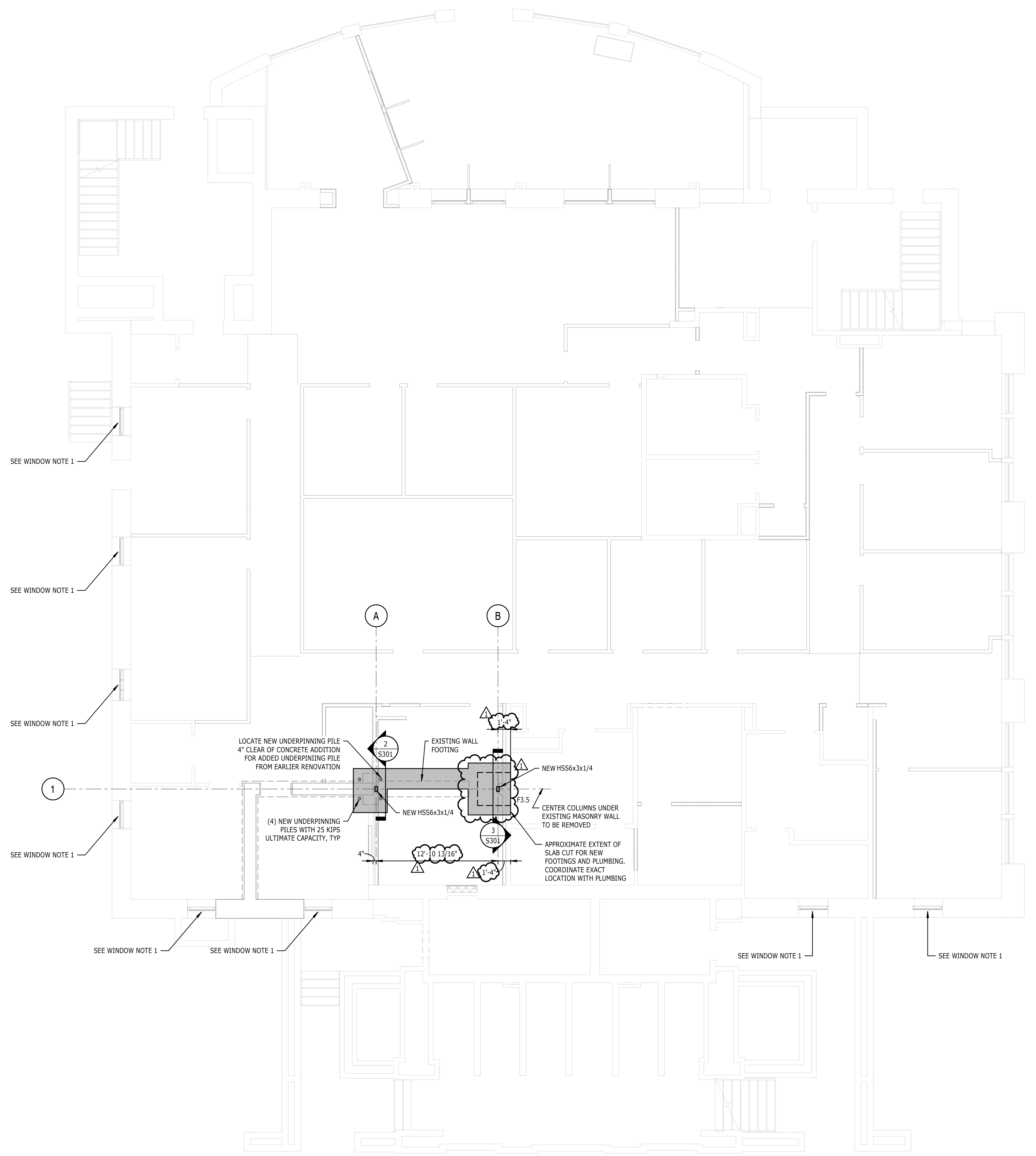
DATE: 11.21.22
PROJECT NO: 22029

REVISIONS

NO:	DATE:	DESCRIPTION:
1	12/22/22	Bid Coordination

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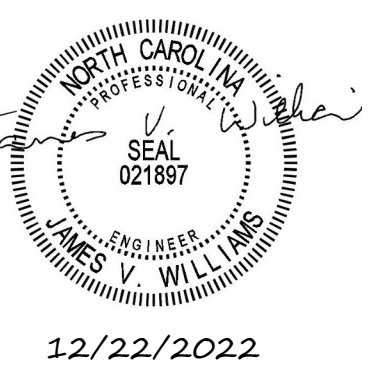
SHEET NUMBER
S100



1 FOUNDATION PLAN

S100 3/16" = 1'-0"

- NOTES
1. WINDOW NOTE - ONCE CHU INFILL OF ORIGINAL WINDOW HAS BEEN REMOVED, CONTRACTOR TO INSPECT THE EXISTING WINDOW HEADER TO ENSURE IT WAS NOT DAMAGED DURING THE 2004 OR CURRENT DEMOLITION AND TO CHECK FOR DETERIORATION. CONTACT THE STRUCTURAL ENGINEER IF ANY DETERIORATION OF THE EXISTING HEADER IS FOUND.
 2. SEE SLAB REPAIR DETAIL 1/S301 FOR AREAS OF CONCRETE SLAB REPLACEMENT.



FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

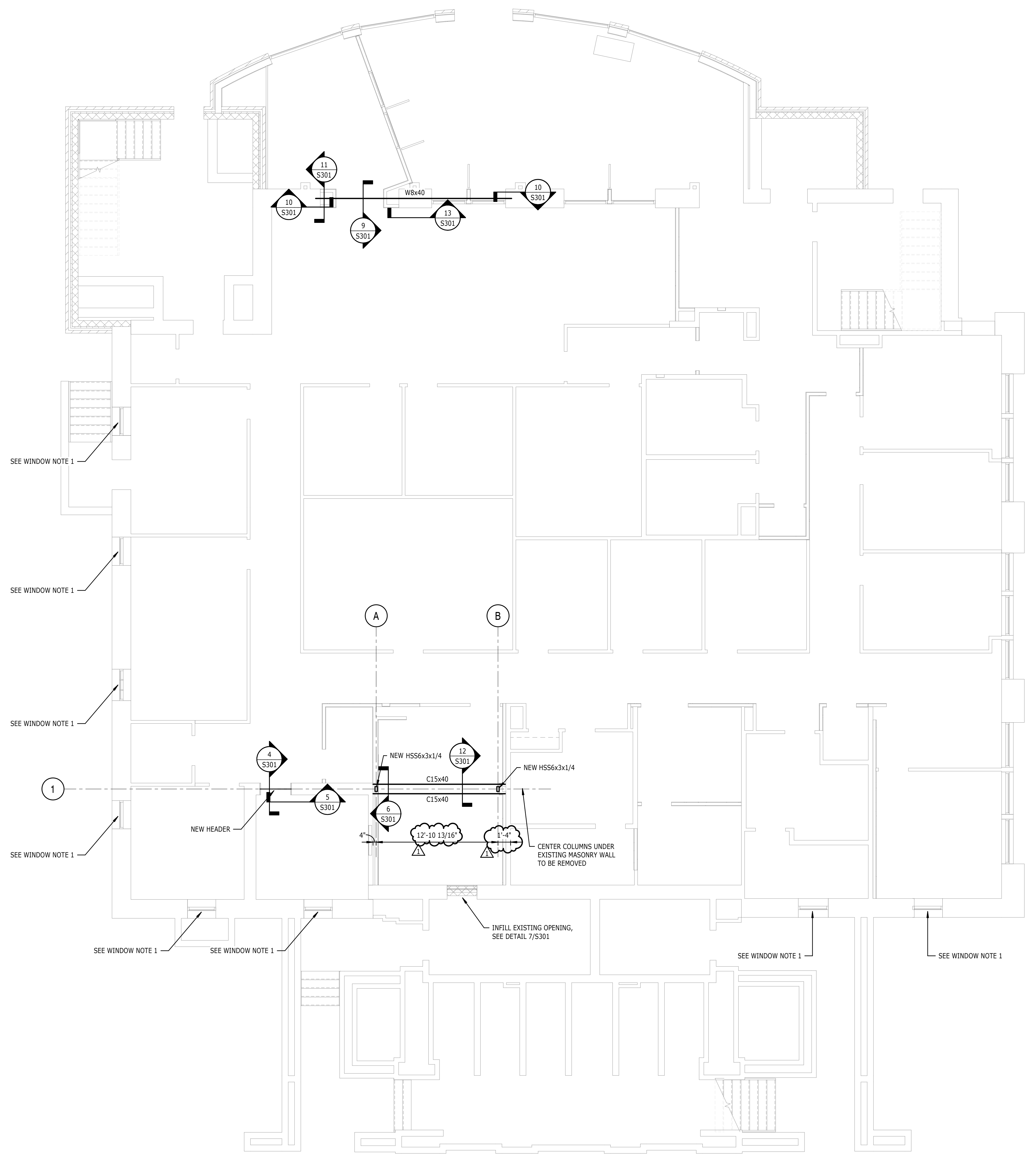
NEW HEADER PLAN

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS

NO:	DATE:	DESCRIPTION:
1	12/22/22	Bid Coordination

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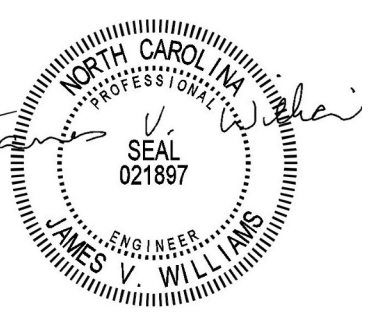
1 NEW HEADER PLAN
S200 3/16" = 1'-0"

- NOTES
1. WINDOW NOTE - ONCE CMU INFILL OF ORIGINAL WINDOW HAS BEEN REMOVED, CONTRACTOR TO INSPECT THE EXISTING WINDOW HEADER TO ENSURE IT WAS NOT DAMAGED DURING THE 2004 OR CURRENT DEMOLITION AND TO CHECK FOR DETERIORATION. CONTACT THE STRUCTURAL ENGINEER IF ANY DETERIORATION OF THE EXISTING HEADER IS FOUND.
 2. SEE SLAB REPAIR DETAIL 1/S301 FOR AREAS OF CONCRETE SLAB REPLACEMENT.



STEWART

151 N TRYON ST SUITE 1400 CHARLOTTE, NC 28202
F 704.334.7925 FIRM LICENSE #C-1051 S22128.00



11/21/2022

FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

SLAB ON GRADE DETAILS

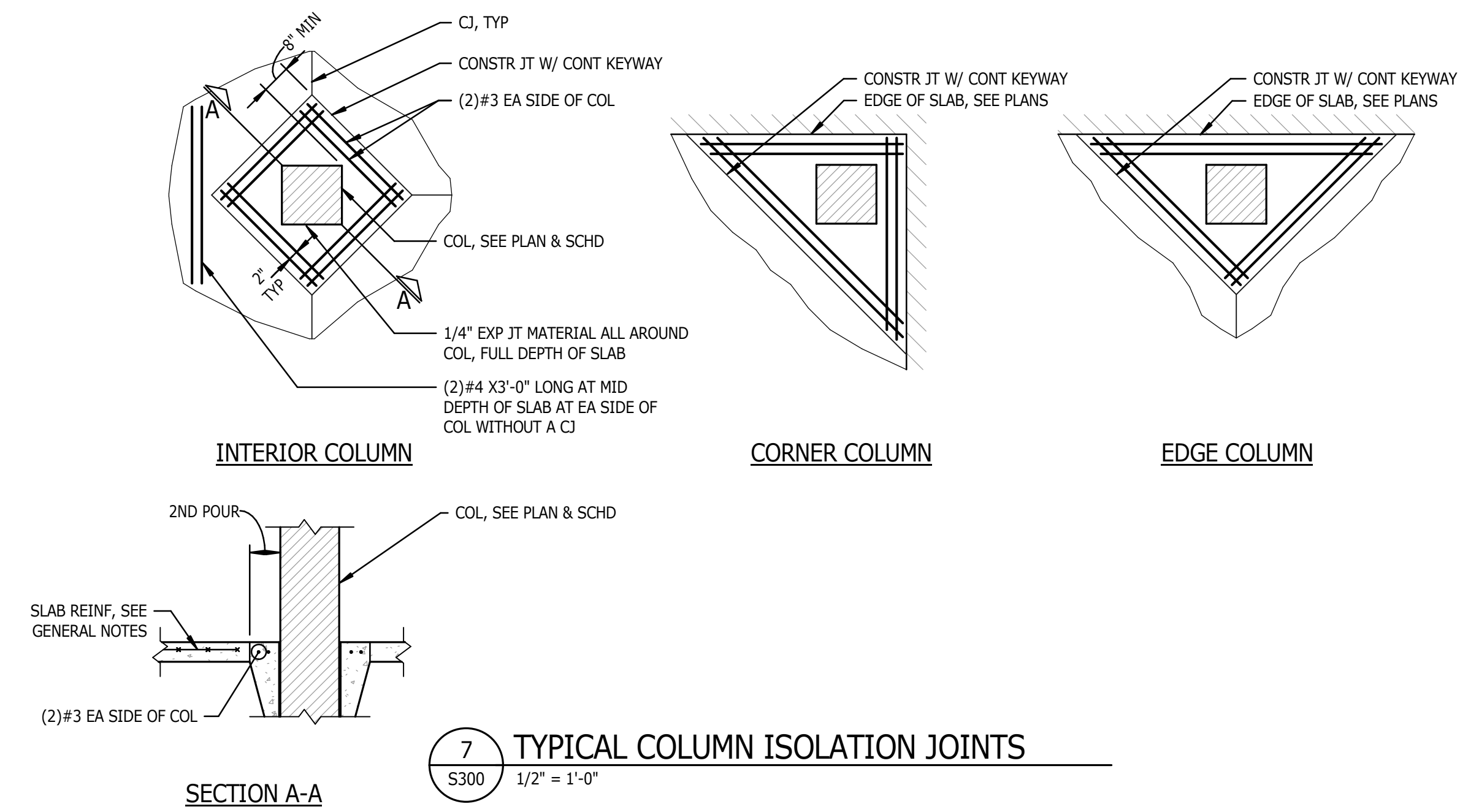
DATE: 11.21.22
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REVISIONS
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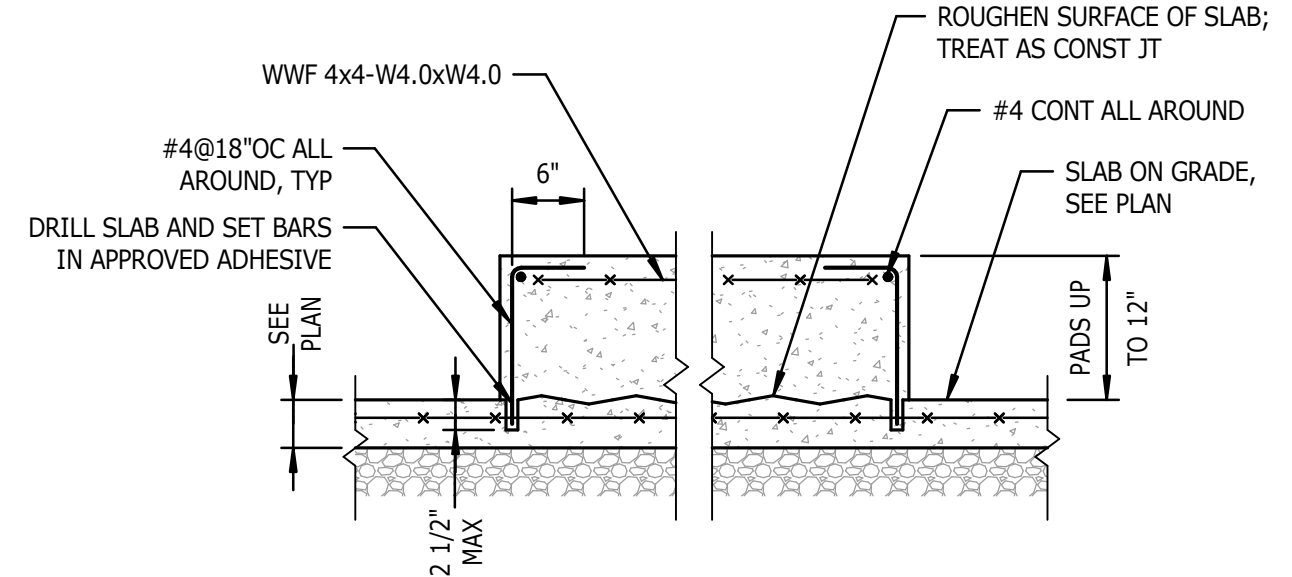
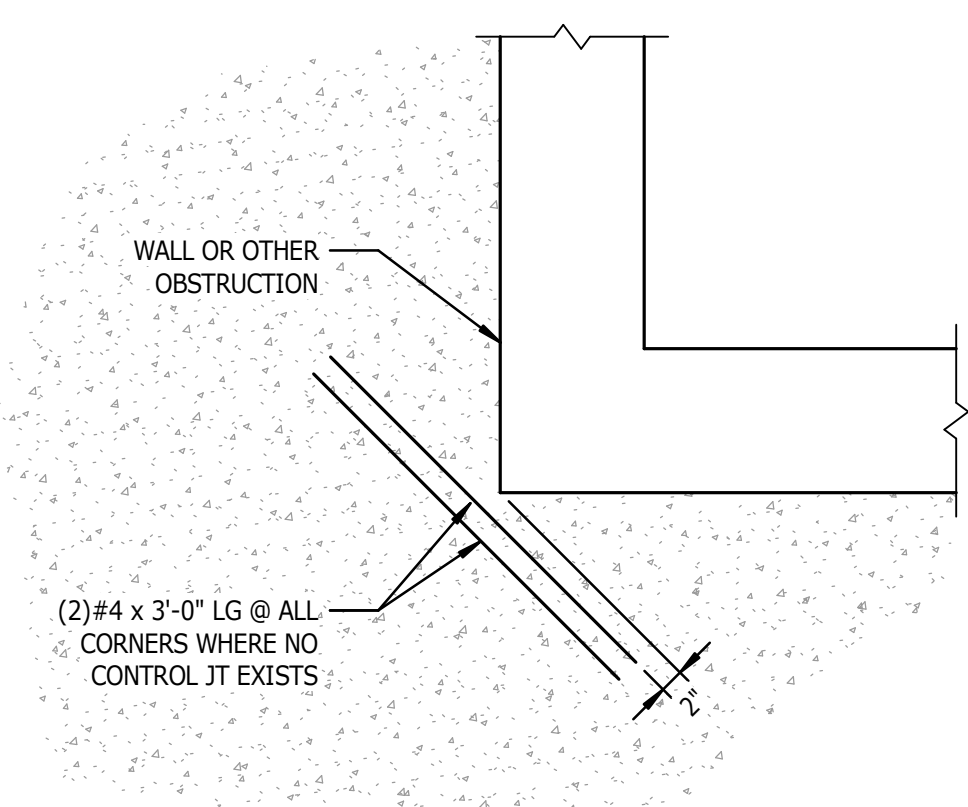
SHEET NUMBER

S300

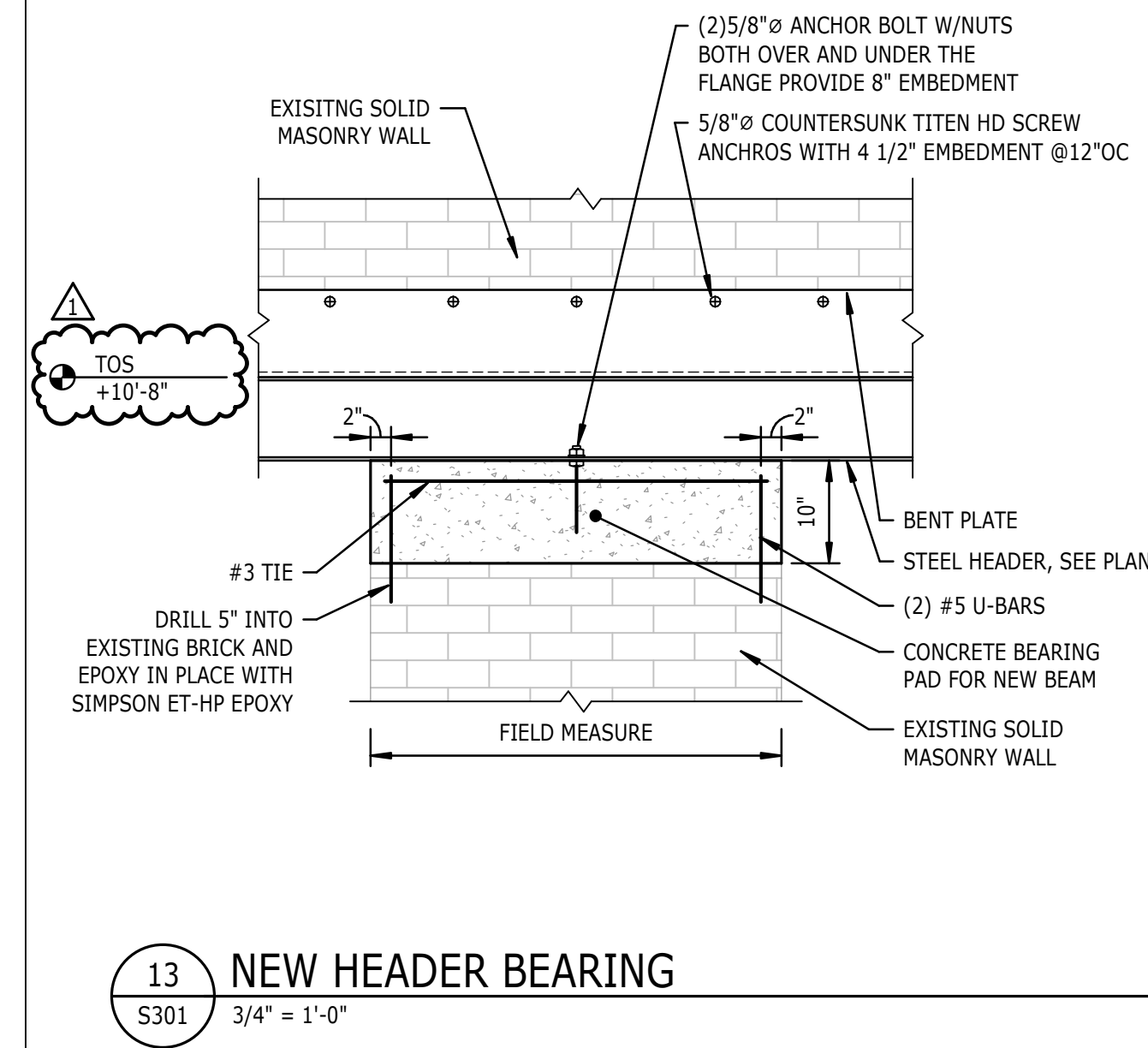


SPREAD FOOTING SCHEDULE					
MARK	SIZE			REINFORCEMENT (EACH WAY)	
	WIDTH	LENGTH	DEPTH	TOP	BOTTOM
F3.5	3'-6"	3'-6"	1'-0"	NA	(4)#5

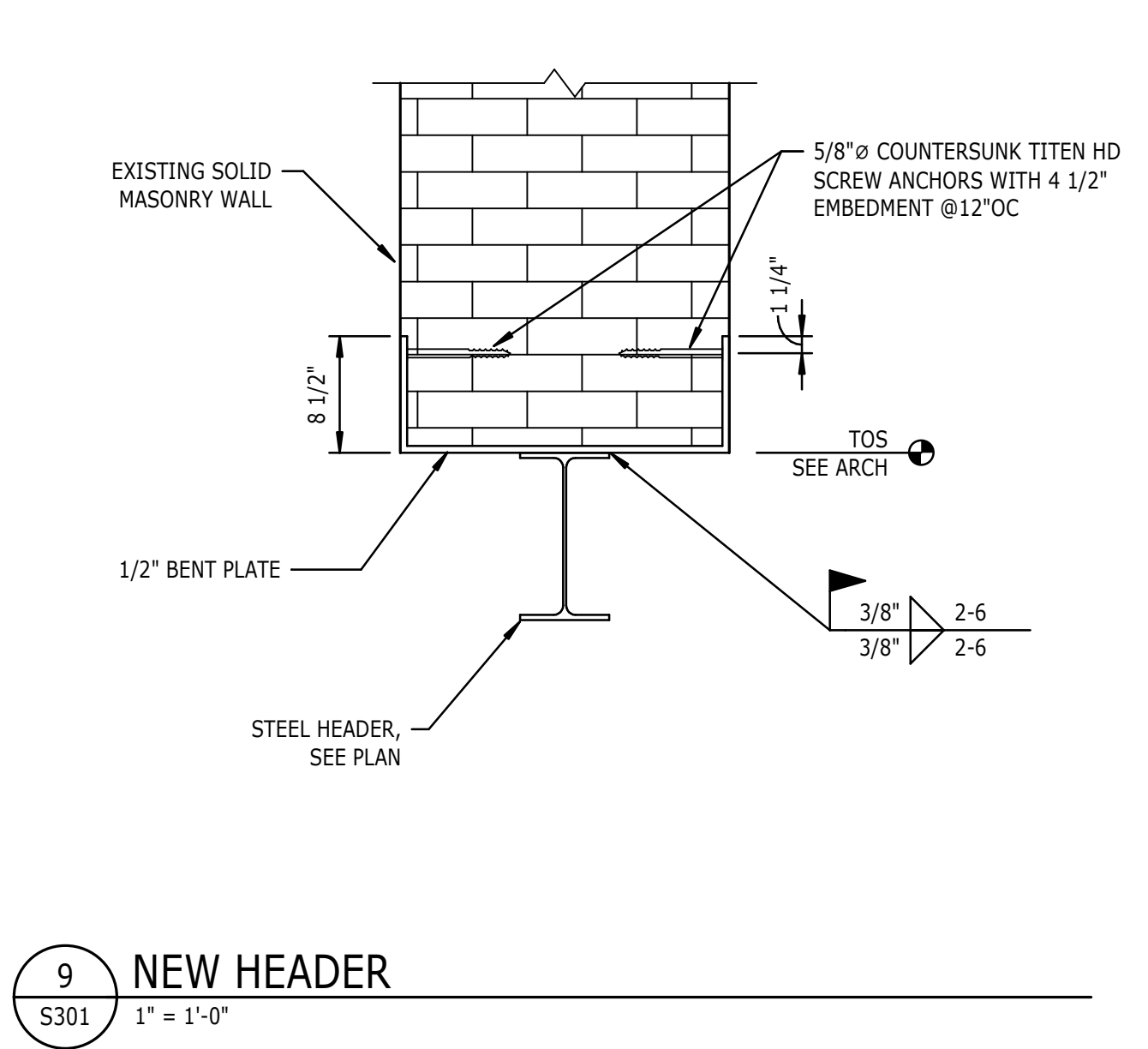
6 SPREAD FOOTING SCHEDULE
S300 3/4" = 1'-0"



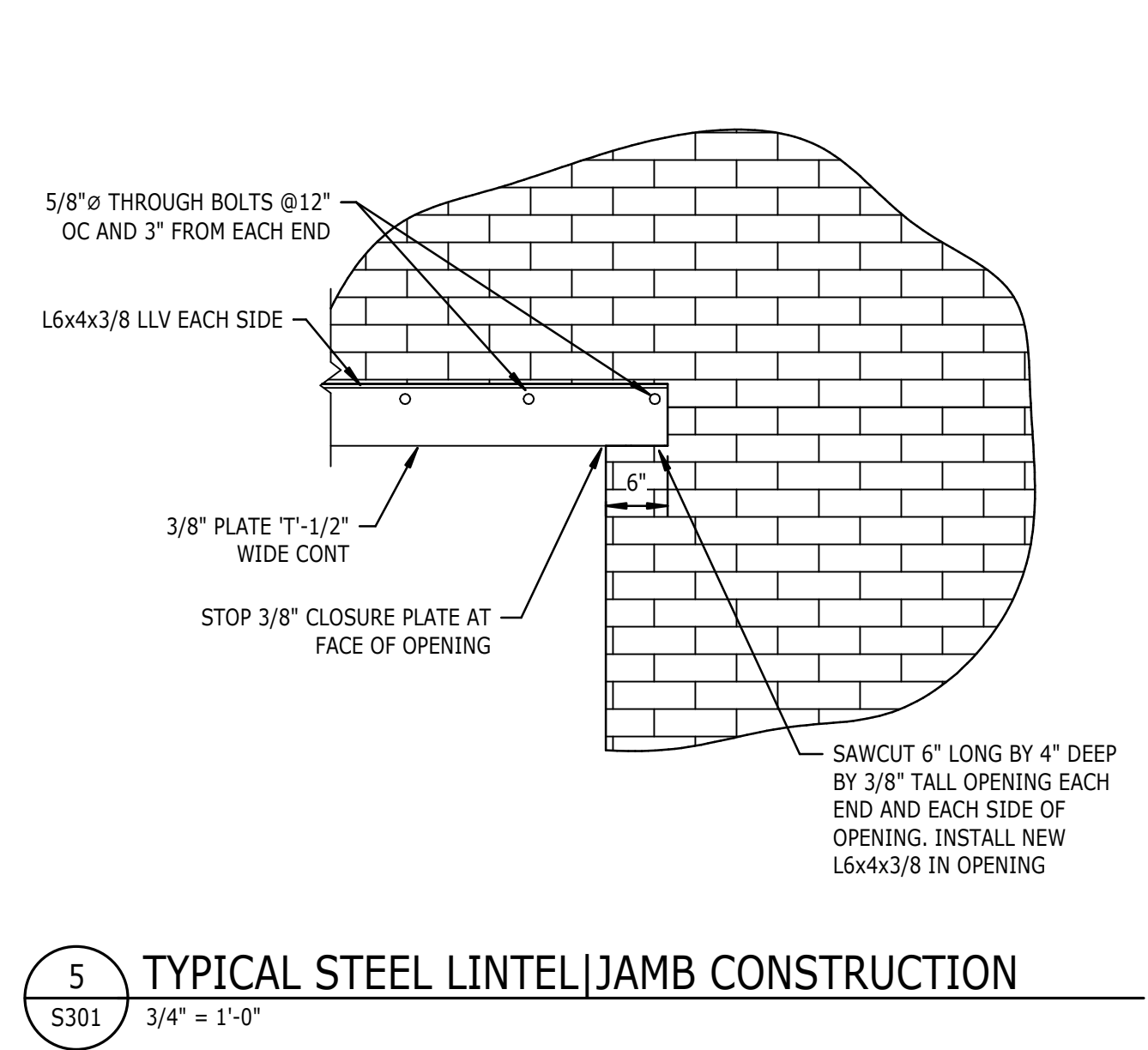
NOTES:
1. THE EXACT SIZE, SHAPE, AND LOCATION OF EQUIPMENT (HOUSEKEEPING) PAD(S) SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF EQUIPMENT SHOP DRAWINGS. ANCHOR BOLTS WHERE REQUIRED SHALL BE SIZED AND LOCATED ACCORDING TO MANUFACTURER'S REQUIREMENTS.



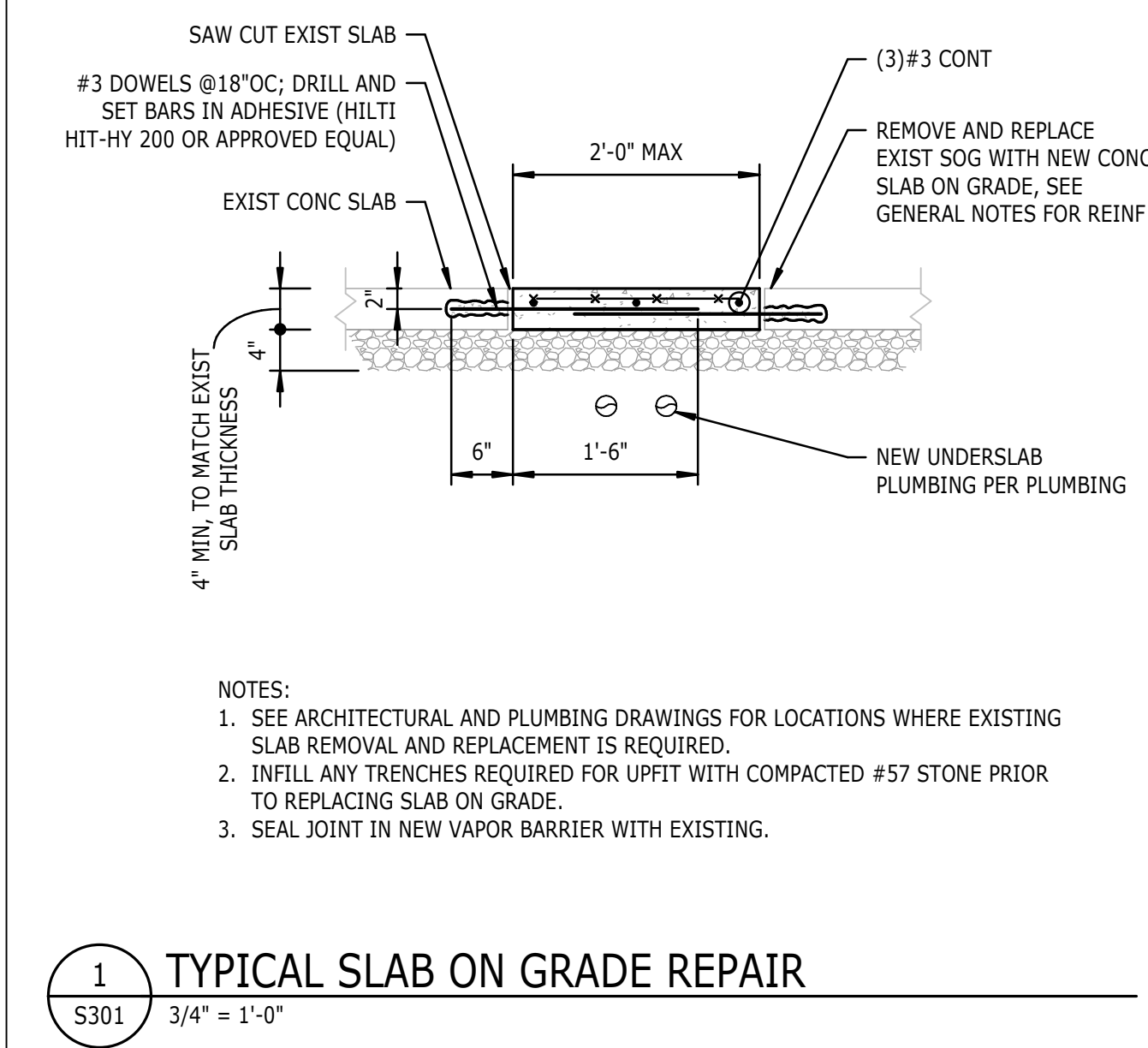
13 NEW HEADER BEARING
S301 3/4" = 1'-0"



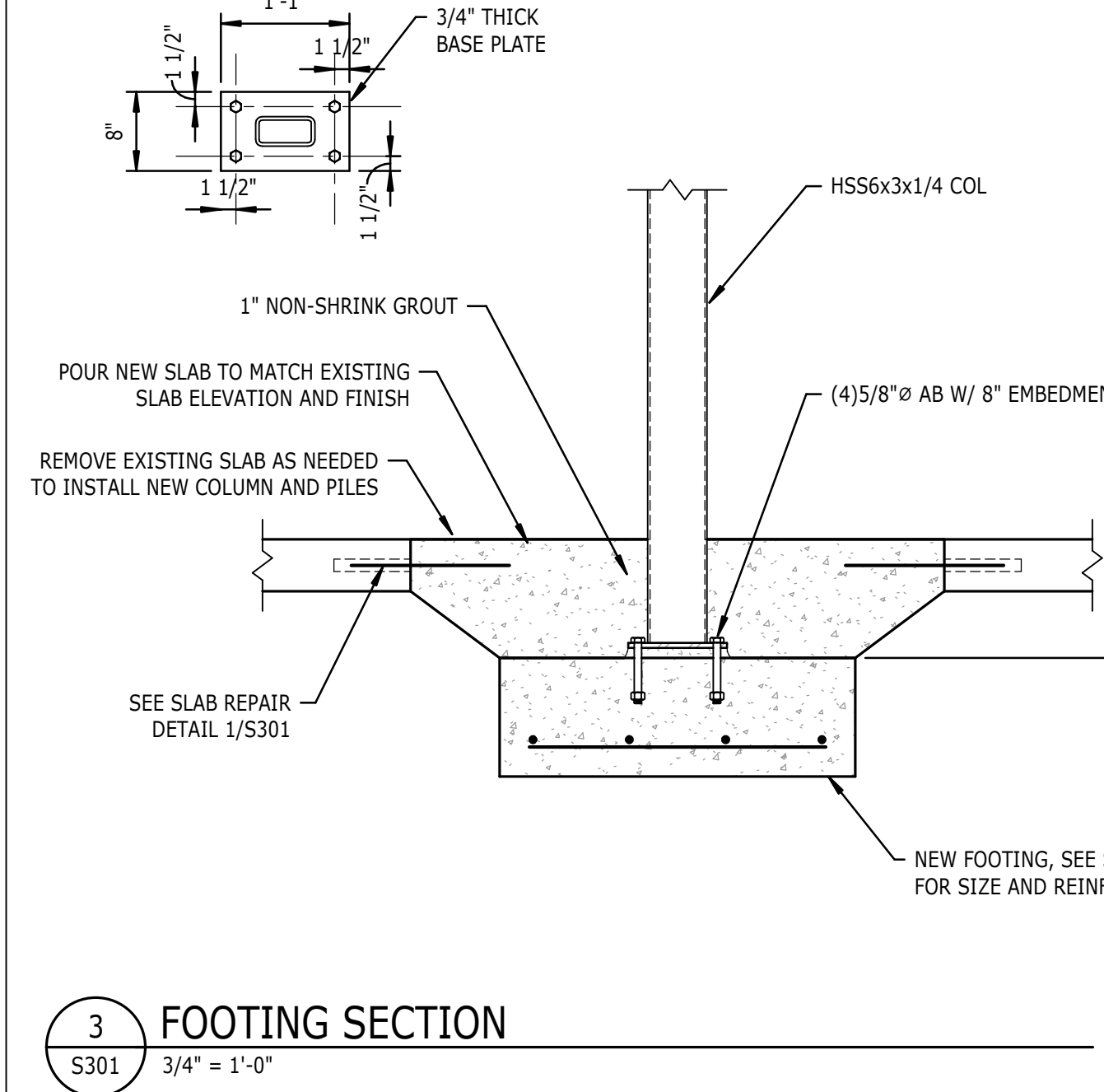
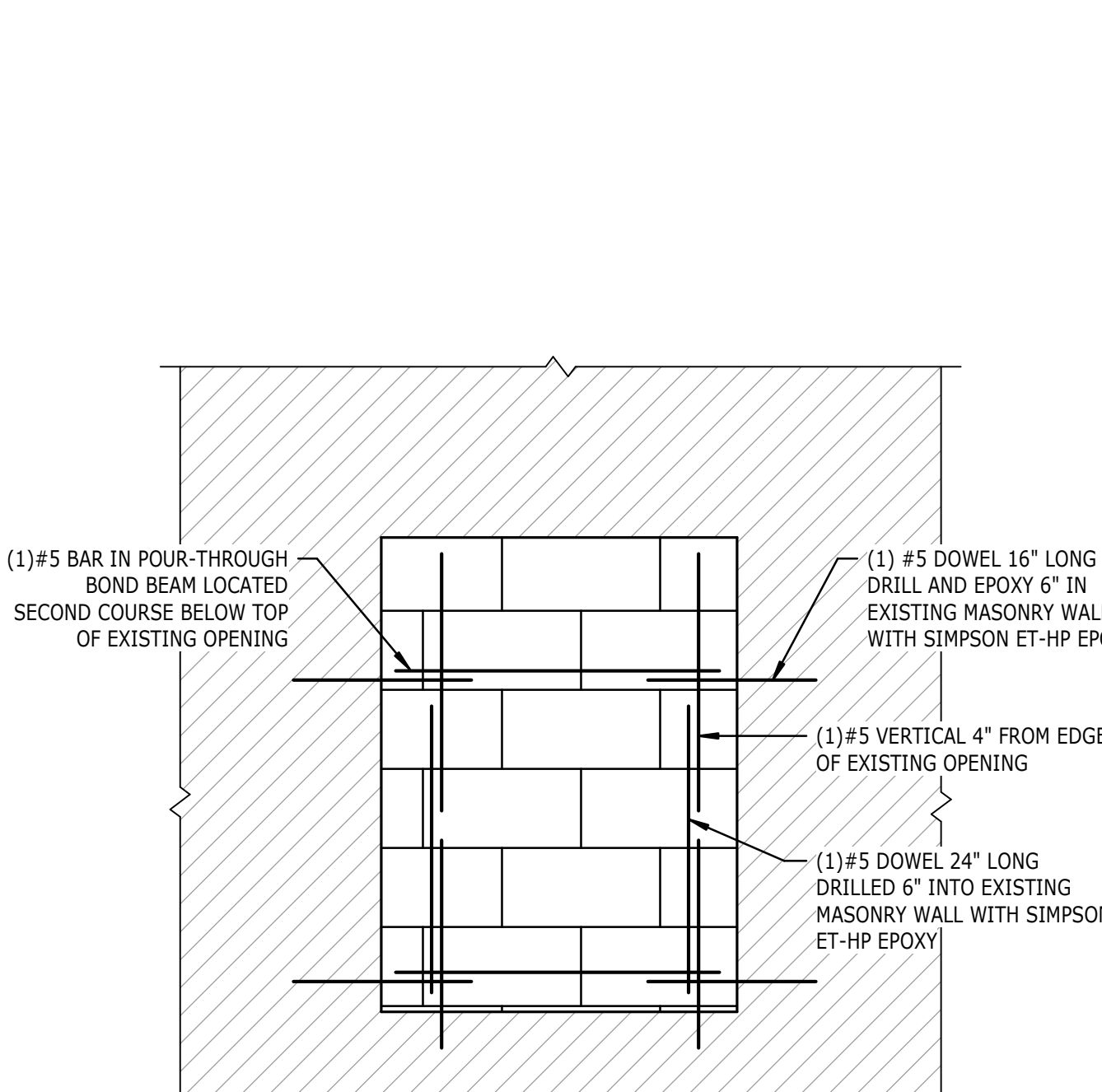
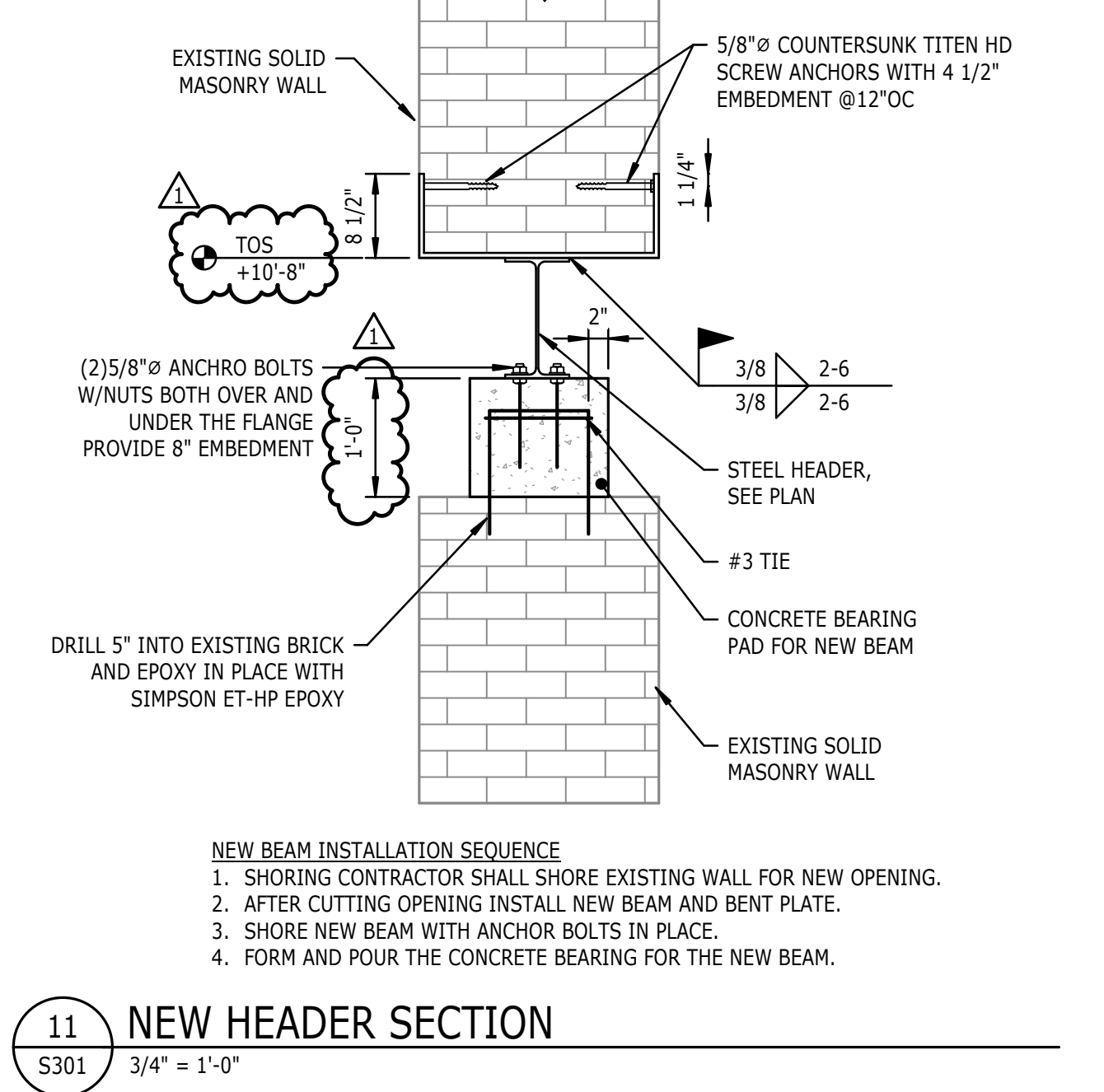
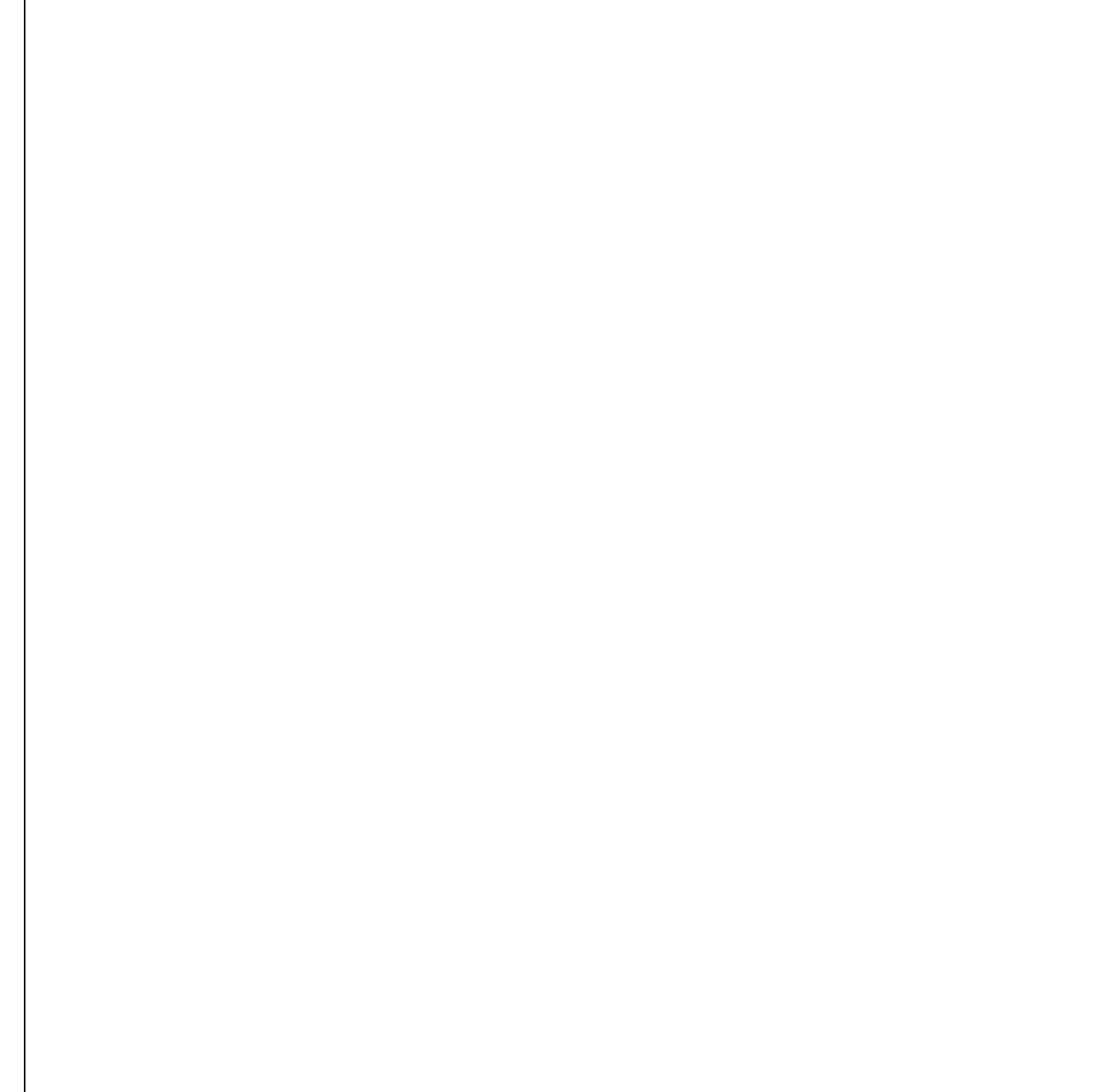
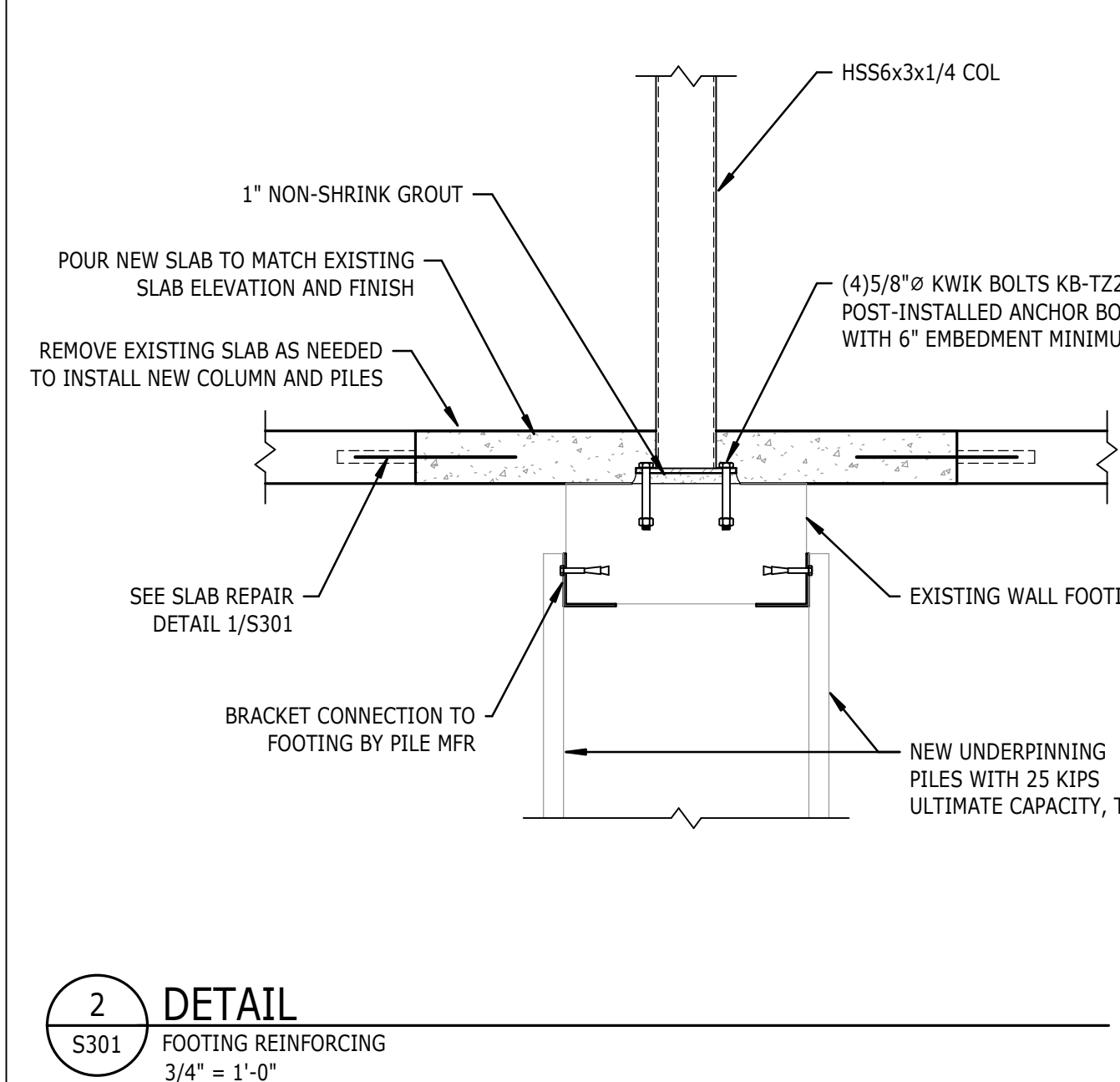
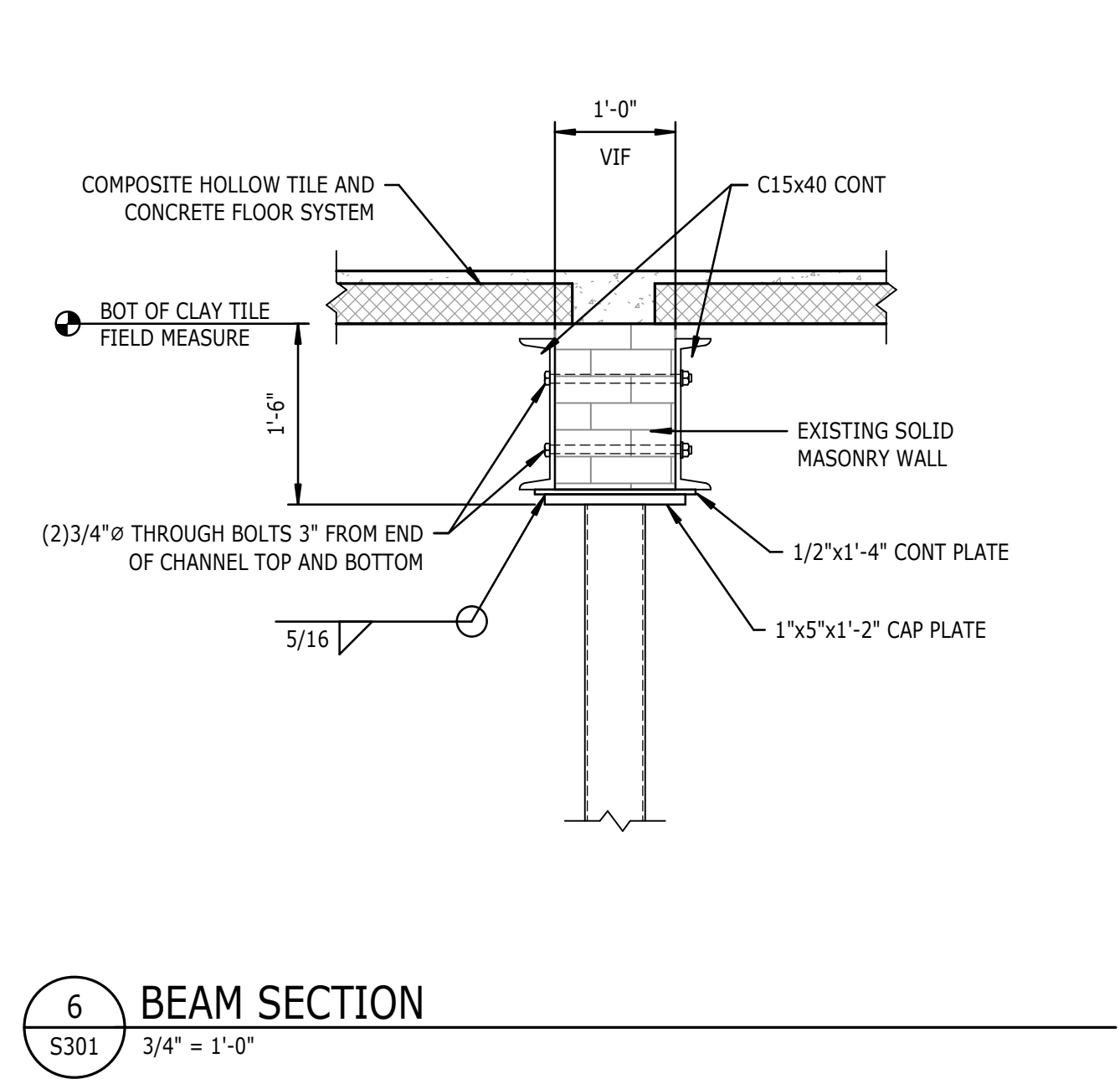
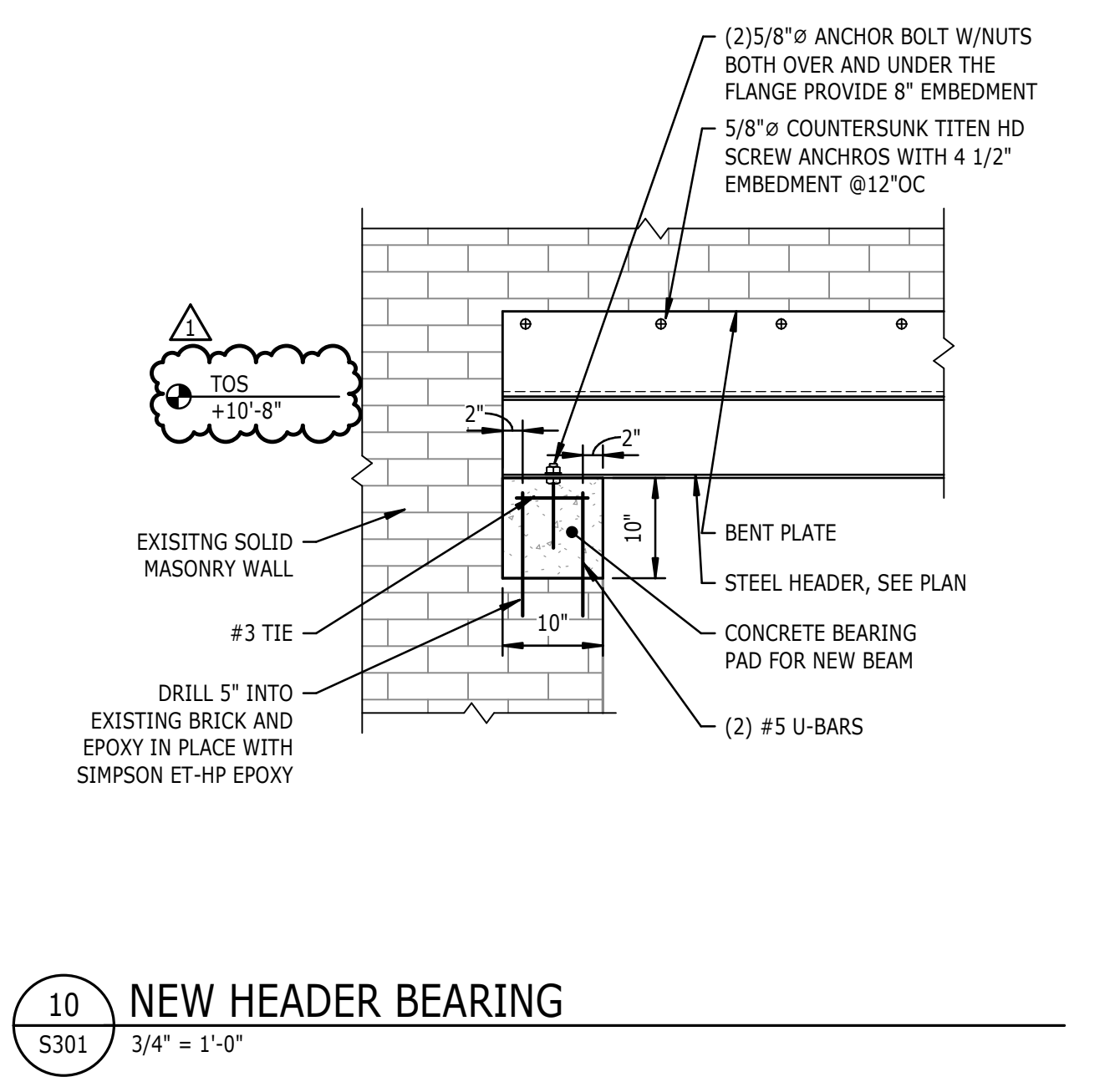
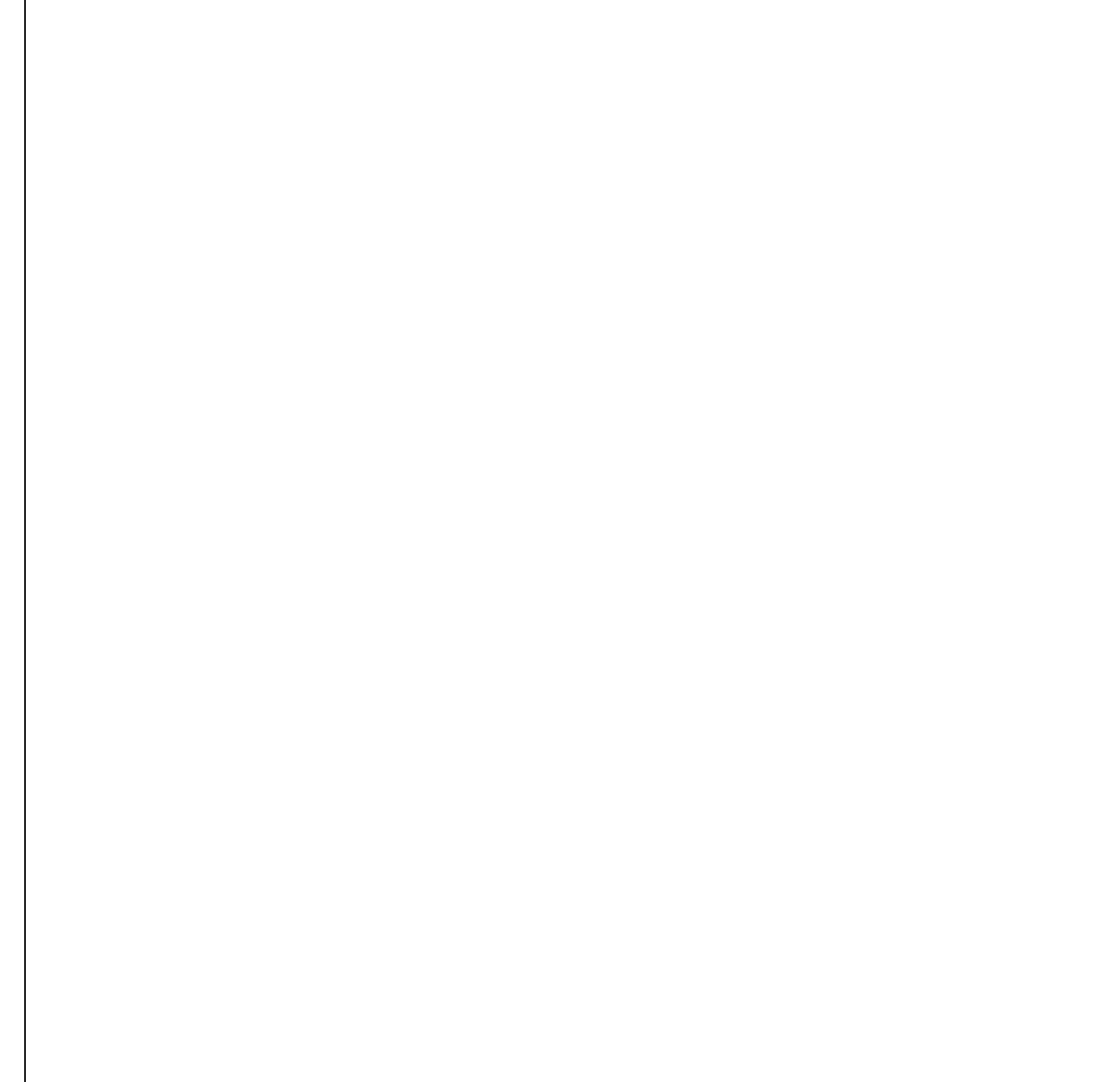
9 NEW HEADER
S301 1" = 1'-0"



5 TYPICAL STEEL LINTEL/JAMB CONSTRUCTION
S301 3/4" = 1'-0"



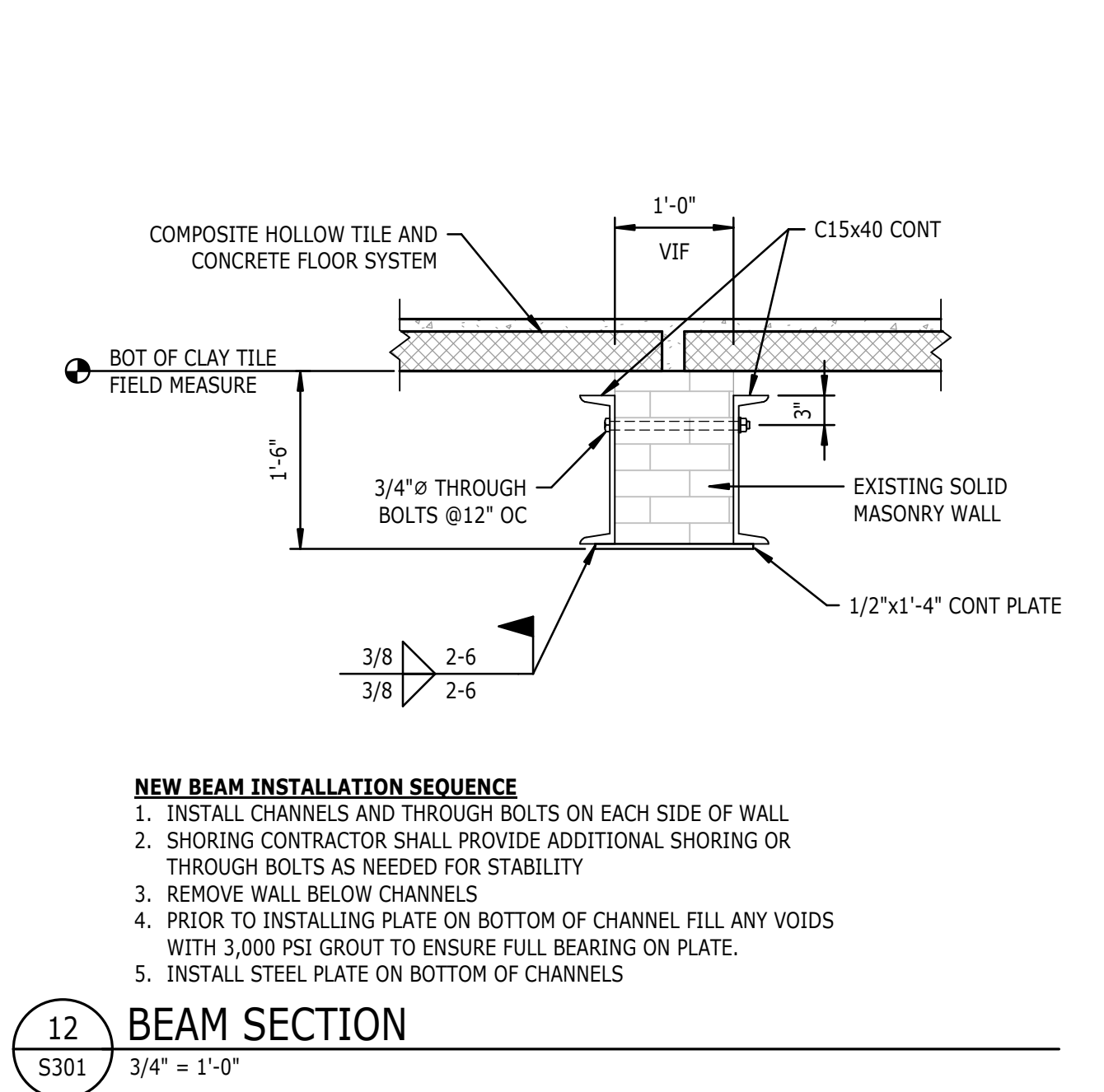
1 TYPICAL SLAB ON GRADE REPAIR
S301 3/4" = 1'-0"



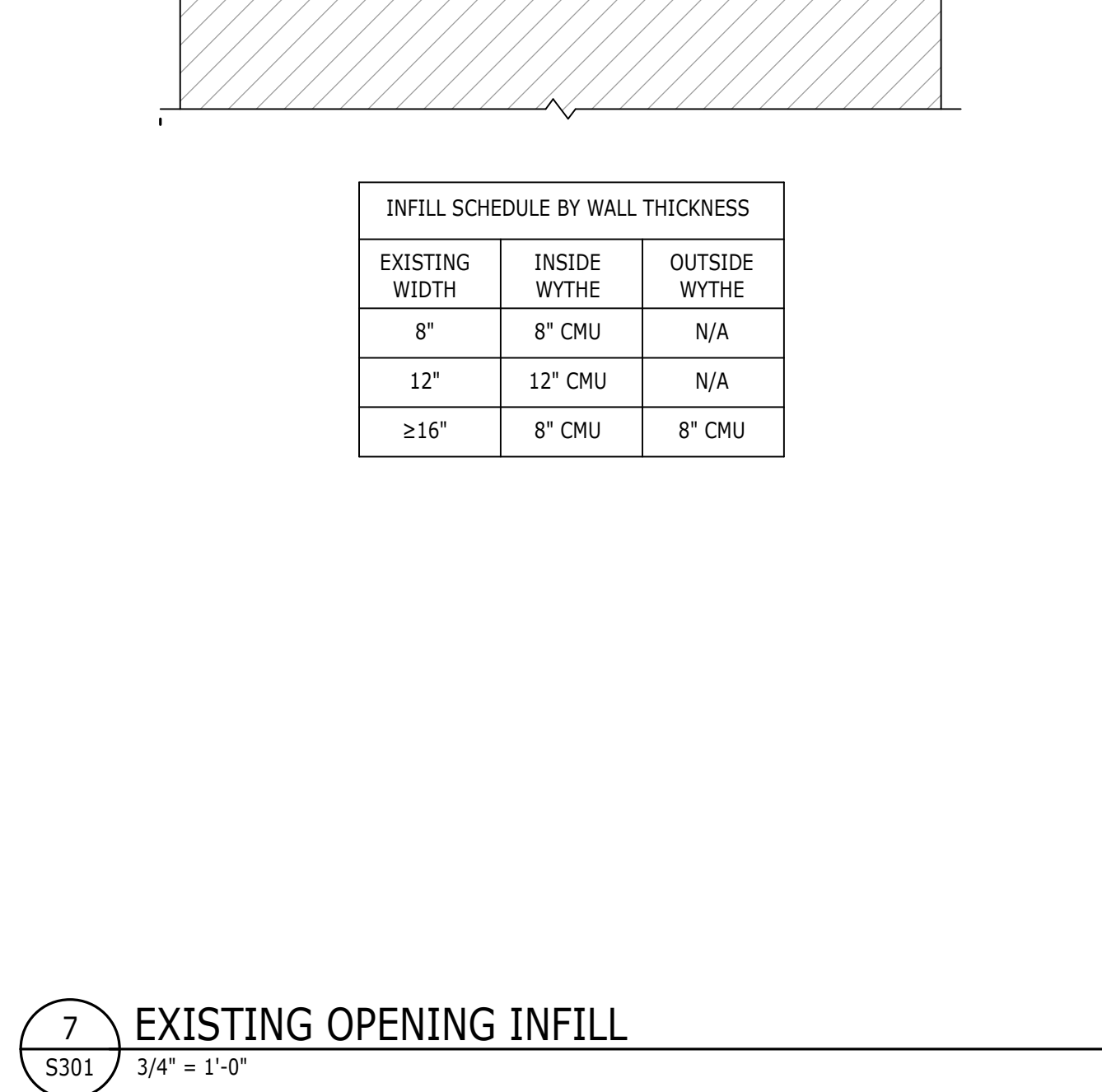
11 NEW HEADER SECTION
S301 3/4" = 1'-0"

7 EXISTING OPENING INFILL
S301 3/4" = 1'-0"

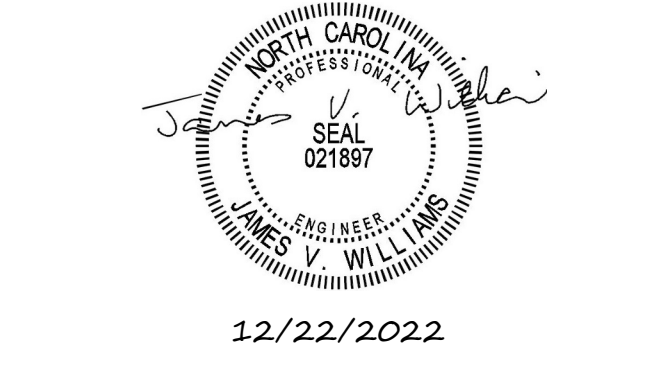
3 FOOTING SECTION
S301 3/4" = 1'-0"



12 BEAM SECTION
S301 3/4" = 1'-0"



4 SECTION
S301 NEW HEADER
3/4" = 1'-0"



FIRST FLOOR ALTERATIONS TO:

HENDERSONVILLE CITY HALL

HENDERSONVILLE, NC

STRUCTURAL DETAILS

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE DESCRIPTION
1 12/22/22 Bid Coordination

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PLUMBING SPECIFICATIONS

IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH A COMPLETE PLUMBING SYSTEM, FULLY ADJUSTED, AND READY FOR USE. ALL WORK SHALL BE DONE IN COMPLIANCE WITH NORTH CAROLINA BUILDING CODE AND ALL LOCAL CODES.

THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, TAP AND METER FEES, AND OTHER COSTS, IN CONNECTION WITH HIS WORK.

ALL MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.

ALL INCIDENTAL CONSTRUCTION WORK TO BE INCLUDED BY THIS CONTRACTOR.

SUBMIT ELECTRONIC FILE OF EQUIPMENT DATA SHOP DRAWINGS TO ENGINEER FOR ALL ITEMS TO BE FURNISHED AND INSTALLED FOR APPROVAL.

THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRA WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN REQUEST AND APPROVAL PRIOR TO PERFORMING WORK.

ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR.

UPON COMPLETION OF ALL WORK AND ALL TESTS, INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF ALL EQUIPMENT FURNISHED. PROVIDE OWNER MAINTENANCE SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE.

ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND GOOD RECOMMENDED PRACTICES.

ALL WORK AND MATERIALS SHALL MEET APPROVAL OF ARCHITECT/ENGINEER.

THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES, WHERE THE WORK OF THIS CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF OTHER TRADES. HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS. IF THIS CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE SCALED.

SOIL, WASTE AND VENT PIPING UNDERGROUND INSIDE BUILDING TO BE CAST IRON HUB AND SPIGOT SOIL PIPE WITH COMPRESSION JOINTS. ABOVE FLOOR CAST IRON NO HUB SOIL PIPE WITH COUPLING ASSEMBLY. PIPE UNDER PAVED AREA TO BE CAST IRON.

DOMESTIC WATER PIPE UNDERGROUND TYPE "K" COPPER. ABOVE GROUND, TYPE "L" HARD DRAWN COPPER.

ALL HOT AND COLD WATER PIPING ABOVE GRADE WITHIN BUILDING SHALL BE INSULATED. HOT WATER PIPE INSULATION SHALL BE 1" THICK, AND COLD WATER INSULATION SHALL BE 1/2" THICK SECTIONAL TYPE, FIBROUS GLASS OR CELLULAR TYPE. INSULATION (ARMAFLEX).

ALL LINES TO BE INSULATED CONTINUOUSLY AND SUFFICIENTLY TO PREVENT FREEZING IN EXTREME CONDITIONS. WHERE PIPES ARE INSTALLED IN CEILING PLENUM ABOVE BATT INSULATION, THE BATT INSULATION SHALL BE LOOPED UP OVER THE WATER PIPES. IF IN WALL CHASE, CHASE TO BE LINED WITH STYROFOAM OR FIBERGLASS INSULATION. IF IN CONCRETE BLOCK CELLS, PIPE TO BE INSULATED WITH 3/4" ARMAFLEX AND BLOCKS FILLED WITH GRANULAR STYROFOAM PELLETS.

CONTROL VALVES FOR HOT AND COLD WATER LINES SHALL BE BALL VALVES, SWEAT TYPE.

PROVIDE ALL PLUMBING PIPING AND EQUIPMENT IN CONNECTION WITH THE SYSTEM.

PROVIDE ALL HANGERS AND SUPPORTS TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS IN CONTACT WITH COPPER PIPE SHALL BE COPPER PLATES OR BRASS.

CONTROL VALVES TO BE ON WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT.

INSULATE HOT WATER SUPPLY PIPE AND DRAIN PIPE ON LAVATORY FOR HANDICAPPED.

CEILING FIBERGLASS INSULATION SHALL BE LAPPED OVER HOT AND COLD WATER PIPING IN CEILING SPACE IN ADDITION TO PIPE INSULATION SPECIFIED TO PREVENT FREEZING WHERE APPLICABLE.

THIS CONTRACTOR TO PERFORM ALL ADJUSTMENTS AND DISINFECTION OF SYSTEMS, EQUIPMENT, CONTROLS, ETC., NECESSARY FOR THE SYSTEM TO PROVIDE THE REQUIRED PERFORMANCE AND TO OPERATE SAFELY. SUBMIT "AS-BUILT" DRAWINGS TO ENGINEER SHOWING ACTUAL INVERTS AND LOCATIONS OF UNDERGROUND LINES, AND ALL CHANGES.

ALL PIPING SHALL BE THOROUGHLY FLUSHED OUT BEFORE USE.

THE WATER SYSTEM, AFTER IT HAS BEEN COMPLETED, TESTED AND THOROUGHLY FLUSHED TO REMOVE MUD AND DEBRIS, SHALL BE DISINFECTED BY CHLORINATION.

PROVIDE CLEAN OUTS LOCATED NOT MORE THAN 100' APART IN HORIZONTAL DRAINAGE LINES OR 4" NOMINAL DIAMETER OR LESS. CLEAN OUTS MUST BE INSTALLED FOR EVERY FOUR HORIZONTAL 45° CHANGES LOCATED IN SERIES AND AT THE BASE OF EACH STACK.

SUSPENDED WATER LINES TO BE BRACED TO PREVENT SWAYING DURING THE OPERATION OF VALVE/EQUIPMENT.

GENERAL PLUMBING NOTES

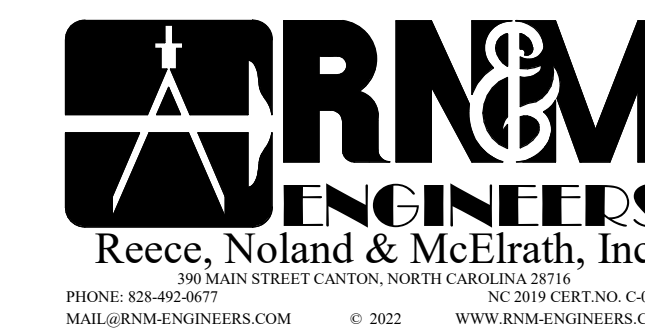
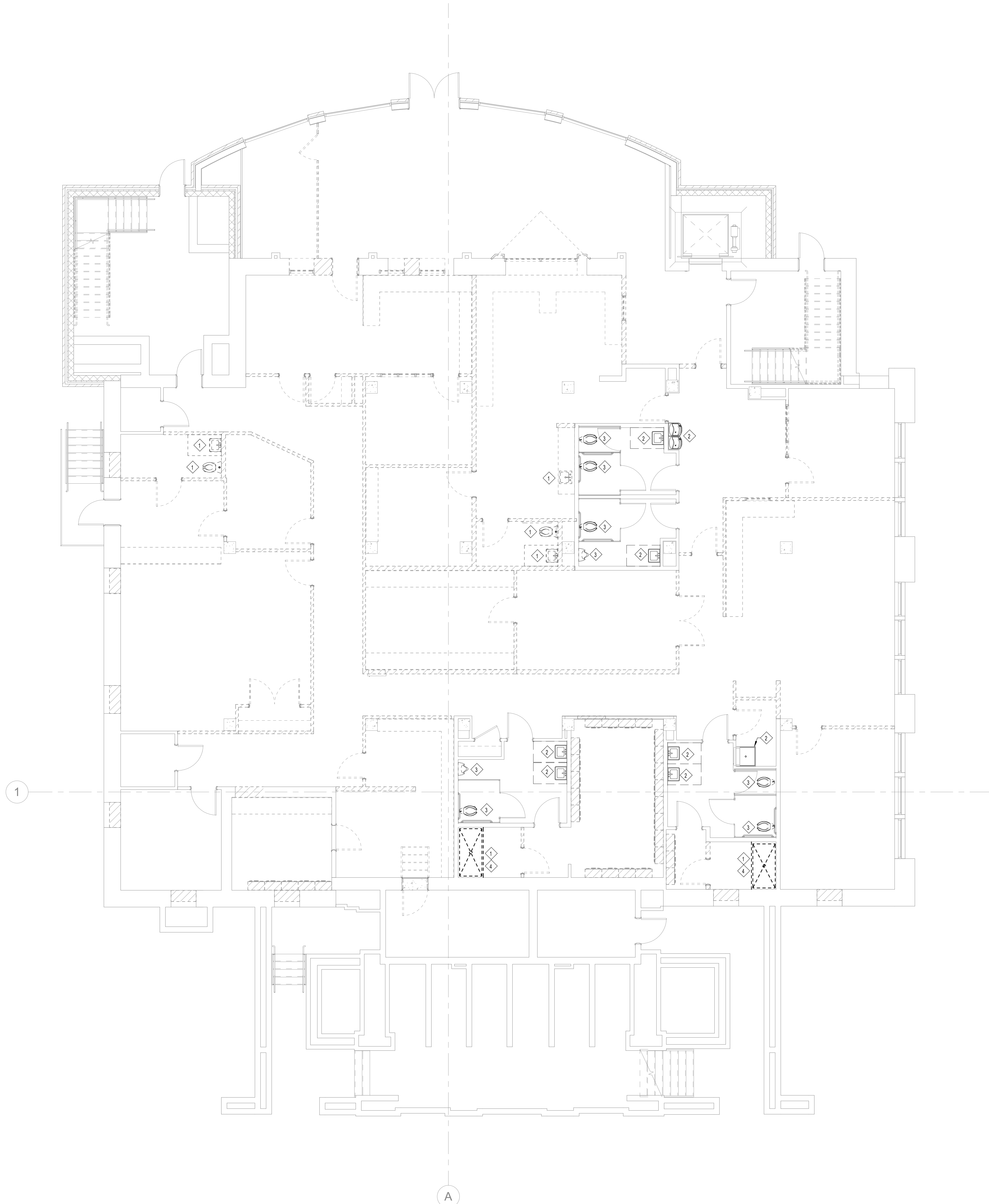
1. THIS CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND PLACEMENTS OF PLUMBING FIXTURES AND EQUIPMENT WITH THE SITE AND ARCHITECTURAL DRAWINGS, INCLUDING REFLECTED CEILING PLANS, INTERIOR ELEVATIONS, DETAILS, AND SECTIONS PRIOR TO ROUGH-IN, OR RELocate AS DIRECTED BY THE DESIGN/ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
2. ALL PIPING, FIXTURES, EQUIPMENT, ETC. SHOWN ON THESE DRAWINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODE REQUIREMENTS.
3. ALL PIPING, SLEEVES, INSERTS, AND OTHER ROUGH-IN MATERIALS SHALL BE INSTALLED AS BUILDING CONSTRUCTION PROGRESSES.
4. PIPE HANGERS SHALL BE SIZED SO THAT INSULATION IS CONTINUOUS AT ALL HANGERS.
5. THIS CONTRACTOR SHALL COORDINATE WITH ALL OTHER CONTRACTORS AND TRADES TO LOCATE HIS WORK TO AVOID CONFLICTS.
6. EXISTING SERVICES INDICATED ON THESE DRAWINGS WERE REPRODUCED FROM EXISTING DRAWINGS AND LIMITED SITE OBSERVATIONS/VERIFICATION. THESE DRAWINGS MAY NOT BE ALL INCLUSIVE OF SERVICES THAT EXIST IN THE AREA OF WORK. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND LOCATIONS PRIOR TO CONSTRUCTION. ANY DIFFERENCE THAT IMPACT WORK SHOWN ON THESE DRAWINGS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR COORDINATION PRIOR TO CONSTRUCTION.
7. CLEAN OUTS SHALL BE INSTALLED WHERE SHOWN AND WHERE REQUIRED BY CODE.
8. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, VALVES, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
9. INSTALL ALL PIPING INSIDE OF THERMAL ENVELOPE. SEE ARCHITECTURAL DRAWINGS.
10. INSTALL BALL VALVE STOPS ON ALL FIXTURE HOT WATER AND COLD WATER SUPPLIES.
11. ALL EQUIPMENT CONNECTIONS SHALL BE COORDINATED WITH EQUIPMENT DRAWINGS AND EQUIPMENT VENDOR. INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ALL NECESSARY PIPING, SHUT-OFF VALVES, P-TRAPS, P-RVS, ETC. REQUIRED TO INSTALL EQUIPMENT AND MAKE FINAL CONNECTIONS.
12. EXISTING FIXTURES, SERVICES, EQUIPMENT, ETC. TO REMAIN OR TO BE RELOCATED SHALL BE REPAIRED TO ORIGINAL OPERATION/CONDITION OR REPLACED, SHOULD THEY BE DAMAGED DURING CONSTRUCTION.
13. ALL DOMESTIC WATER PIPE, TRIM, AND FITTINGS TO BE LEAD FREE.
14. ALL VENTS THROUGH THE ROOF SHALL BE COMBINED AS PRACTICAL AND ALLOWED BY CODE, AND PENETRATE THE ROOF ON THE BACK SIDE OF THE BUILDING WHERE PRACTICAL. THIS CONTRACTOR SHALL COORDINATE DETAILS OF VENT PENETRATIONS AND FLASHING WITH THE ROOFING INSTALLER. ALL VENTS THROUGH THE ROOF SHALL BE LOCATED AT LEAST THE MINIMUM DISTANCE AWAY FROM AIR INTAKES AS REQUIRED BY CODE.

KEYED PLUMBING DEMOLITION NOTES

NOTES APPLY TO THIS SHEET ONLY

◆	EXISTING PLUMBING FIXTURE TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING FIXTURE WATER PIPING AND VENT BACK TO NEXT INTERSECTION AND CAP. REMOVE EXISTING FIXTURE WASTE BACK TO THE NEXT INTERSECTION AND CAP / OR PROVIDE NEW CLEAN OUT. NO DEAD END PIPING PERMITTED. PATCH FLOOR AND WALLS AS NEEDED TO MATCH EXISTING CONDITIONS AND THICKNESS. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
◆	EXISTING PLUMBING FIXTURE TO REMAIN IN PLACE AND PROTECTED DURING CONSTRUCTION.
◆	EXISTING PLUMBING FIXTURE TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. EXISTING PLUMBING ROUGH-INS TO REMAIN IN PLACE AND BE REWORKED AS NEEDED FOR NEW FIXTURE. SEE NEW PLAN AND PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. FIELD VERIFY EXACT LOCATIONS.
◆	EXISTING FLOOR DRAIN TO BE REMOVED AND DISPOSED OF AS DIRECTED BY OWNER. REMOVE EXISTING FIXTURE WASTE AND VENT (WHERE APPLICABLE) BACK TO THE NEXT INTERSECTION AND CAP / OR PROVIDE NEW CLEAN OUT. NO DEAD END PIPING PERMITTED. PATCH FLOOR AND WALLS AS NEEDED TO MATCH EXISTING CONDITIONS AND THICKNESS. FIELD VERIFY EXACT LOCATIONS AND CONDITION.

NOTE:
PLUMBING CONSTRUCTION TO NOT HINDER OPERATION OF OTHER FLOORS. ANY AND ALL SHUT-DOWNS TO BE COORDINATED WITH OWNER PRIOR TO WORK COMMENCEMENT.



FIRST FLOOR ALTERATIONS TO:

CITY HALL RENOVATION

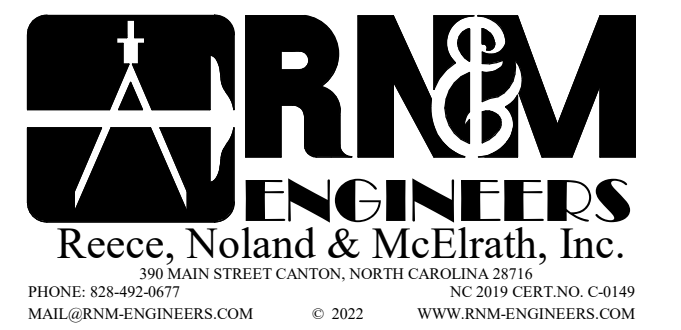
160 6TH AVE
HENDERSONVILLE, NC
28792

CITY HALL LEVEL 1 PLUMBING DEMOLITION PLAN

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE: DESCRIPTION:

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FIRST FLOOR
ALTERATIONS TO:

**CITY HALL
RENOVATION**

160 6TH AVE
HENDERSONVILLE, NC
28792

**CITY HALL LEVEL 1
PLUMBING PLAN**

DATE: 11.21.22
PROJECT NO: 22029

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SHEET NUMBER

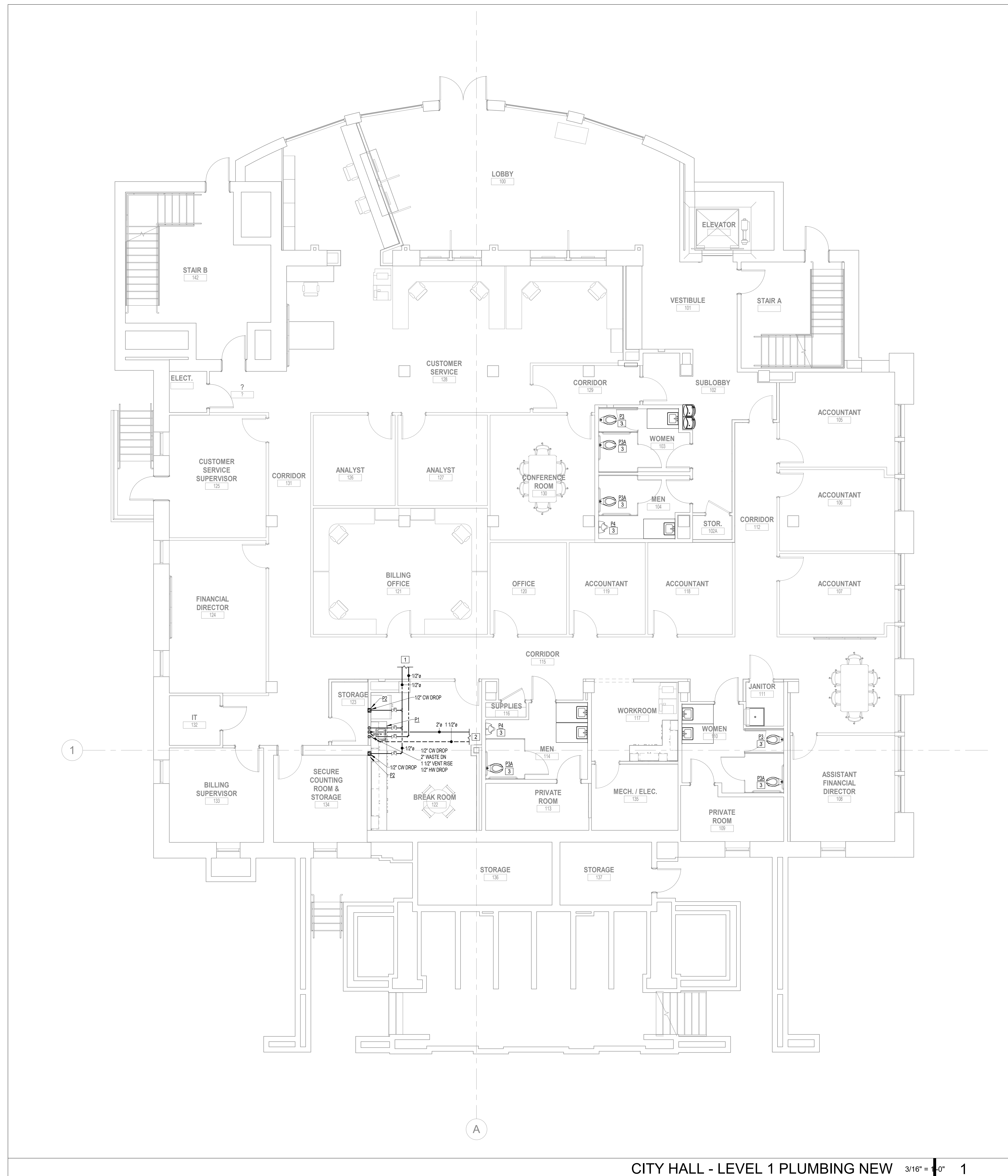
P101

PLUMBING FIXTURE SCHEDULE & SPECIFICATIONS									
ITEM	FIXTURE	ACCESSORIES	WASTE	VENT	TRAP	HW	CW	BEHAVE VALVE	COUNTING HGT.
P1	SINK, DROP-IN ELKAY MODEL # L40221965 ONE COMPARTMENT, STAINLESS STEEL	- DELTA FAUCET MODEL # 9113-AR-DST FAUCET SET - ELKAY MODEL # L4099 DRAIN - MCGUIRE BALL VALVE STOPS AND SUPPLIES - 17 GA. CHROME PLATED P-TRAP	2"	2"	1 1/2"	1/2"	1/2"	3/8"	COUNTER TOP MOUNTED, 5 1/2" DEEP - DRAIN AT CENTER REAR
P2	WATER SUPPLY BOX, RECESSED MOUNTED GUY GRAY MODEL # SS81 STAINLESS STEEL	- FURNISH COMPLETE					1/2"		WALL RECESSED
P3	WATER CLOSET, FLUSH VALVE TYPE KOHLER MODEL # K-8003 SS-0 "WELLCOME ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	- SLOAN ROYAL 111-1.6 FLUSH VALVE 1.6 GPF - BEMIS # 215SSCT TOILET SEAT	4"	2"	INT.		1"	INT.	FL. MTD. - 15 3/16" A.F.F. TO RIM SEE NOTE 1
PA	ADA WATER CLOSET, FLUSH VALVE TYPE KOHLER MODEL # K-8003 SS-0 "HIGHCLIFF ULTRA" VITREOUS CHINA COORDINATE COLOR W/ARCHITECT	- SLOAN ROYAL 111-1.6 FLUSH VALVE 1.6 GPF - BEMIS # 215SSCT TOILET SEAT	4"	2"	INT.		1"	INT.	FL. MTD. - 16 5/8" A.F.F. TO RIM SEE NOTE 1
P4	URINAL, WALL HUNG KOHLER MODEL # K-6516-ET "EXETER" VITREOUS CHINA	- SLOAN MODEL # 186-0.5 FLUSH VALVE 0.5 GPF - CONCEALED ARM FLOOR CARRIER	2"	2"	INT.		3/4"	INT.	WALL HUNG - SEE ARCH. ELEVATIONS

- NOTES:
1. FLUSH VALVE HANDLES SHALL BE TO THE WIDE SIDE OF TOILET STALL PER N. C. ACCESSIBILITY CODE.
2. EQUAL FIXTURES BY AMERICAN STANDARD, SLOAN, OR APPROVED EQUAL.
3. EQUAL FITTINGS BY DELTA, SHIMONS, OR APPROVED EQUAL.
4. ALL HANDICAP SINKS TO BE PROVIDED WITH OFFSET TAIL PIECE.
5. ALL HANDICAP SINK/AVATORIES TO HAVE MCGUIRE # PW125WCPRO SEAMLESS PREWRAPPED P-TRAP AND SUPPLY INSULATION KIT
6. COORDINATE ALL INSTALLATION OF SINKS WITH CASEWORK SHOP DRAWINGS PRIOR TO ORDERING.

PLUMBING LEGEND	
	WASTE LINE
	VENT LINE
	COLD WATER (CW)
	HOT WATER (HW)
	BALL VALVE

- KEYED PLUMBING CONSTRUCTION NOTES**
NOTES APPLY TO THIS SHEET ONLY
- CONNECT NEW 1/2" CW AND 1/2" HW PIPING TO EXISTING PIPING IN THIS LOCATION ABOVE CEILING. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
 - CONNECT NEW 2" WASTE (BELOW FLOOR) AND 1 1/2" VENT (ABOVE CEILING) PIPING TO EXISTING PIPING IN EXISTING BATHROOM. PATCH EXISTING FLOORS AS NEEDED TO MATCH EXISTING CONDITIONS. FIELD VERIFY EXACT LOCATIONS AND CONDITIONS.
 - INSTALL NEW PLUMBING IN PREVIOUS FIXTURES LOCATION. CONNECT TO EXISTING ROUGHINS THAT WERE PREPPED DURING DEMOLITION.



GENERAL MECHANICAL DUCTWORK NOTES

- THE DRAWINGS SHOW THE LOCATION AND ARRANGEMENT OF PIPING, DUCTS, AND EQUIPMENT, TOGETHER WITH DETAILS OF CONNECTIONS OF CERTAIN PRINCIPAL ITEMS. THE LAYOUT SHOWN SHALL BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, BUT THIS CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SHALL COOPERATE FULLY WITH OTHER CONTRACTORS AND TRADES WHILE INSTALLING DUCTS, PIPING, AND OTHER EQUIPMENT BECAUSE OF CLOSE SPACE LIMITS. IN CASE OF CONFLICT, NOTIFY DESIGNER BEFORE PROCEEDING WITH INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF PARTITION WALLS, DOORS, CHASES, CASEWORK, ETC. DO NOT SCALE MECHANICAL DRAWINGS FOR SUCH DIMENSIONS.
- THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
- DUCTWORK SIZES INDICATED ON DRAWINGS ARE FREE INSIDE DIMENSIONS.
- MAXIMUM LENGTH OF FLEXIBLE DUCT IS SIX FEET (6'). UTILIZE MEDIUM PRESSURE FLEX DUCT WHERE REQUIRED FOR MEDIUM PRESSURE.
- ALL VALVES, DAMPERS, CONTROLS, AND OTHER ITEMS REQUIRED FOR OPERATION OR MAINTENANCE ARE TO BE ACCESSIBLE AND PROPERLY LABELED.
- ALL SLEEVES, OUTLET BOXES, AND OTHER ROUGH-INS FOR SUCH ITEMS AS FIRE DAMPERS, PIPE PENETRATIONS, LOUVERS, AND CONTROL TEES SHALL BE INSTALLED AS THE BUILDING CONSTRUCTION PROGRESSES.
- PROVIDE AND INSTALL VOLUME CONTROL DAMPERS AT ALL SUPPLY MAIN AND BRANCH DUCT TAKE-OFFS.
- PROVIDE AND INSTALL DUCT ACCESS DOORS AT ALL SMOKE DAMPERS, FIRE DAMPERS, AND DUCT SMOKE DETECTORS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DUCT SMOKE DETECTOR LOCATIONS.
- THIS CONTRACTOR SHALL TAKE FIELD MEASUREMENTS BEFORE FABRICATING ANY DUCTS TO ENSURE THAT DUCT SIZES SHOWN WILL FIT INTO AVAILABLE SPACE. IN CASE OF CONFLICT, NOTIFY THE DESIGNER BEFORE PROCEEDING.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COORDINATE LOCATIONS OF ALL FLOOR DRAINS WITH PLUMBING CONTRACTOR, PRIOR TO SLABS BEING POURED.
- COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH ARCHITECTURAL, REFLECTED CEILING PLAN AND ELECTRICAL CONTRACTOR'S LIGHTING LAYOUT.
- ALL EMS SENSORS AND OTHER FIELD DEVICES MOUNTED ON WALLS TO BE PROTECTED FROM DAMAGE AS REQUIRED. INSTALL LEXAN COVERS, WIRE GUARDS, OR SIMILAR AS REQUIRED. COORDINATE CONDITIONS IN THE FIELD.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE PRIME CONTRACTOR OR GENERAL CONTRACTOR (WHERE APPLICABLE) THE QUANTITY, SIZE AND LOCATIONS OF ALL ACCESS DOORS IN WALLS, DRYWALL CEILINGS, ETC. FOR ACCESS TO VALVES, BALANCE DAMPERS OR OTHER EQUIPMENT AS REQUIRED. COORDINATE THIS WORK WITH THE REFLECTED CEILING PLANS. ALL VALVES OR OTHER DEVICES LOCATED ABOVE THE CEILING SHALL BE LOCATED IN ACCESSIBLE CEILINGS WHEREVER POSSIBLE. VERIFY LOCATION OF ALL VALVES IN INACCESSIBLE CEILINGS OR CHASES WITH THE ENGINEER PRIOR TO INSTALLATION.
- COORDINATE EXACT SIZE, LOCATION, APPURTENANCES, ETC. FOR ALL ROOF OPENINGS WITH GENERAL CONTRACTOR.
- REFER TO STRUCTURAL DRAWINGS, DETAILS, AND EXISTING CONDITIONS FOR PERMISSIBLE LOADINGS AND METHODS FOR HANGING DUCTWORK FROM STRUCTURE. ALL DUCTWORK HANGERS TO BE WITHIN 4" OF PANEL POINTS OF JOISTS. DO NOT WELD DUCT HANGERS/SUPPORTS TO STRUCTURE WITHOUT PRIOR APPROVAL FROM THE STRUCTURAL ENGINEER AND PRIME OR GENERAL CONTRACTOR (WHERE APPLICABLE).
- COORDINATE EXACT SIZES REQUIRED FOR ALL OPENING FOR DUCTWORK AND PIPING WITH SPACE REQUIREMENTS, FIRE DAMPER INSTALLATION INSTRUCTIONS, STRUCTURAL DRAWINGS, AND THE GENERAL CONTRACTOR, PRIOR TO FRAMING FOR THE PENETRATIONS.
- THE MECHANICAL CONTRACTOR SHALL THOROUGHLY COORDINATE DUCT / PIPE PENETRATIONS AT STRUCTURAL SHEAR WALLS / SHEAR BRACING WITH STRUCTURAL DRAWINGS EXISTING CONDITIONS. INSTALL LINTELS AS REQUIRED.
- ALL CONTROL DEVICES (SENSORS, STATS, SWITCHES, ETC) TO GENERALLY BE LOCATED ADJACENT TO LIGHT SWITCHES IN EACH ROOM, UNLESS NOTED OTHERWISE. GENERALLY, THIS SHOULD BE AS CLOSE TO DOOR STROKE AS POSSIBLE.
- COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH REFLECTED CEILING PLAN AND LIGHTING LAYOUT, AS WELL AS OTHER ITEMS IN CEILINGS.
- ROOMS REQUIRING POSITIVE OR NEGATIVE PRESSURIZATION ARE NOTED AS SUCH (PLEASE SEE LEGEND). ALL OTHER ROOMS ARE NOT NOTATED, AND ARE TO BE NEUTRAL.
- IN GENERAL, MEDIUM PRESSURE AND LOW PRESSURE SUPPLY DUCT IS TO BE ROUTED LOW, TIGHT TO CEILING AS POSSIBLE, BUT NOT TO ALLOW FOR REMOVAL OF LIGHTING FIXTURES, HEPA FILTERS, ETC. (COORDINATE EXACT ELEVATIONS IN FIELD AND WITH EXISTING CONDITIONS). ROUTE SIMILAR TO EXISTING. RETURN DUCTWORK TO ROUTED ABOVE SUPPLY AND EXHAUST DUCTWORK ROUTED ABOVE RETURN. HOWEVER, ALL REQUIRED MANUAL DAMPERS IN RETURN AND EXHAUST DUCTWORK MUST REMAIN ACCESSIBLE THRU THE CEILING. THEREFORE, RETURN AND EXHAUST DUCTWORK ROUTED AT HIGHER ELEVATIONS MAY REQUIRE OFFSETS UP OR DOWN THAT ARE NOT SHOWN ON THE DRAWINGS IN ORDER TO MAINTAIN ACCESSIBILITY TO VOLUME DAMPERS AND OTHER SIMILAR EQUIPMENT.
- RUN-OUT SIZES TO TERMINAL BOXES OR FILTERS MAY NOT SHOWN ON DRAWINGS. RUN-OUT SIZES TO BE SAME NOMINAL SIZE AS INLET OF TERMINAL BOX, UNLESS NOTED OTHERWISE.
- ALL CEILING AND /OR SMOKE DETECTORS TO BE MOUNTED AT LEAST 4" FROM ALL CEILING GRILLES / DIFFUSERS. COORDINATE LOCATIONS FOR ALL GRILLES / DIFFUSERS WITH E.C. PRIOR TO MOUNTING.
- INTERNAL LINING OF DUCTWORK AND FILTER BOXES WILL NOT BE PERMITTED.
- CONTRACTOR TO INSULATE ALL DUCTWORK WITH 1/2" - 2" ARMAFLEX INSULATION, INCLUDING BACKS OF DIFFUSERS AND HEPA FILTERS.

	F 200	LINEAR SLOT DIFFUSER, TYPE AND CFM
	A 775	CEILING SUPPLY DIFFUSER, TYPE AND CFM
	F 450	CEILING RETURN GRILLE, TYPE AND CFM
	J 75	CEILING EXHAUST GRILLE, TYPE AND CFM INDICATED
	TYPE	CEILING RETURN GRILLE, TYPE INDICATED
	P 605	SIDEWALL OR SIDE OF DUCT SUPPLY DIFFUSER, TYPE AND CFM
	J 625	SIDEWALL OR SIDE OF DUCT RETURN GRILLE, TYPE AND CFM
	24x12	RECTANGULAR DUCT, WIDTH x DEPTH
	12x12 (24x12)	RECTANGULAR DUCT, BASE BID SIZE AND (ALTERNATE SIZE), WIDTH x DEPTH
	Ø8	ROUND OR SPIRAL DUCT, DIAMETER
		DUCT BALANCE DAMPER
		DUCT TRANSITION
		FACTORY LINED ACOUSTICAL SPIRAL DUCT OR WRAPPED AND LINED RECTANGULAR DUCTWORK
	SP	DUCT MOUNTED STATIC PRESSURE SENSOR
		DUCT TAKEOFF AT 45 DEGREES
		DUCT SQUARE ELBOW WITH TURNING VANES
	Ø12	FLEXIBLE DUCT, MAXIMUM Ø LENGTH
	VD	DUCT WITH LEAKING DAMPER
	AFMS	DUCT WITH AFMS
		MOTORIZED CONTROL DAMPER

	CHWS	NEW CHILLED WATER SUPPLY PIPING
	CHWR	NEW CHILLED WATER RETURN PIPING
	HWS	NEW HOT WATER SUPPLY PIPING
	HWR	NEW HOT WATER RETURN PIPING
	CWS	NEW CONDENSER WATER SUPPLY PIPING
	CWR	NEW CONDENSER WATER RETURN PIPING
	HS	FILTER SUPPLY PIPING
	HR	FILTER RETURN PIPING
	CS	SHUT-OFF VALVE
	CR	CONTROL VALVE
	FOR	CONTROL VALVE
	FOR	BALANCING VALVE
	BS	
	SE	
	SE	

	Ⓞ	THERMOSTAT, MOUNTED 48" A.F.F.
	Ⓞ	EMS SENSOR, MOUNTED 48" A.F.F.
	Sf	FAN COIL UNIT FAN SPEED SWITCH
	SM	MANUAL STARTER
	Sv	VARIABLE SPEED SWITCH
	S	SWITCHED WITH LIGHTS
	FD	FIRE DAMPER
	Ⓞ	EMS SPACE CARBON DIOXIDE SENSOR
	Ⓞ	MOTORIZED OPERATOR
	Ⓞ	DUCT SMOKE DETECTOR (FURNISHED BY E.C. AND INSTALLED BY M.C.)
	UC	UNDERCUT DOOR FOR CFM INDICATED
	TR	TRANSFERRED AIR FOR CFM INDICATED
	Ⓞ	TYPICAL VAV BOX (TYPE INDICATED)
		DUCT SILENCER/ATTENUATOR
		U.L. RATED SMOKE DAMPER
		DUCT MOUNTED CO2 MONITOR, BASIS OF DESIGN: VAISALA GM20 - COMPARABLE BY VARIS AND BOC
		DUCT MOUNTED HUMIDITY SENSOR, BASIS OF DESIGN: VAISALA HMD70Y - COMPARABLE BY VARIS AND SETRA
		DUCT MOUNTED TEMPERATURE SENSOR
		2 HR RATED FIRE PARTITION
		1 HR RATED FIRE PARTITION
		NON-RATED SMOKE PARTITION

PIPING LEGEND

	CHWS	NEW CHILLED WATER SUPPLY PIPING
	CHWR	NEW CHILLED WATER RETURN PIPING
	HWS	NEW HOT WATER SUPPLY PIPING
	HWR	NEW HOT WATER RETURN PIPING
	CWS	NEW CONDENSER WATER SUPPLY PIPING
	CWR	NEW CONDENSER WATER RETURN PIPING
	HS	FILTER SUPPLY PIPING
	HR	FILTER RETURN PIPING
	CS	SHUT-OFF VALVE
	CR	CONTROL VALVE
	FOR	CONTROL VALVE
	FOR	BALANCING VALVE
	BS	
	SE	
	SE	

MECHANICAL SUMMARY - MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT

OUTDOOR AIR DESIGN CONDITIONS	
ASHRAE CLIMATE ZONE	4A
ELEVATION	2117 ft
WINTER DRY BULB	15.4 °F
SUMMER DRY BULB	88.0 °F
SUMMER WET BULB	71.2 °F
GENERAL INTERIOR DESIGN CONDITIONS	
WINTER DRY BULB	70.0 °F
SUMMER DRY BULB	75.0 °F
RELATIVE HUMIDITY	50%
BUILDING HEATING LOAD	NO ADDED LOAD
BUILDING COOLING LOAD	NO ADDED LOAD
MECHANICAL SYSTEMS	
UNITARY EQUIPMENT	
DESCRIPTION OF UNIT	REFER TO EQUIPMENT SCHEDULES FOR EFFICIENCIES
HEATING EFFICIENCY	
COOLING EFFICIENCY	
SIZE CATEGORY OF UNIT	
BOILER	TOTAL BOILER OUTPUT, IF OVERSIZED STATE REASON N/A
CHILLER	TOTAL CHILLER CAPACITY, IF OVERSIZED STATE REASON N/A
LIST EQUIPMENT EFFICIENCIES	REFER TO EQUIPMENT SCHEDULES FOR EFFICIENCIES

VAV Fan Powered Terminal Units													
Schedule													
Unit Tags	Quantity	Model Number	Unit model	Primary inlet	Airflow					Hot Water Heating			
					Design cooling airflow cfm	Mn cooling airflow cfm	Valve heating airflow cfm	Unit heating airflow cfm	Fan airflow cfm	Main coil rows	Coil heating capacity Mch	Heating flow rate gpm	Heating ent fluid temp F
VAV-1	1	VSWF0800P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	550	165	165	225	225	1ROW	8.6	0.57	160
VAV-1.5	1	VSWF0800P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	600	180	180	300	300	1ROW	9.73	0.65	160
VAV-2	1	VSWF0800P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	875	265	265	435	435	1ROW	11.98	0.8	160
VAV-3	1	VSWF0500P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	5" (127mm)	330	100	100	190	190	1ROW	7.5	0.5	160
VAV-4	1	VSWF0600P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	6" (152mm)	390	120	120	195	195	1ROW	7.77	0.52	160
VAV-5	1	VSWF0800P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	610	180	180	305	305	1ROW	9.8	0.65	160
VAV-6	1	VSWF0800P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	8" (203mm)	760	230	230	380	380	1ROW	11.1	0.74	160
VAV-7	1	VSWF0600P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	6" (152mm)	455	135	135	225	225	1ROW	8.35	0.56	160
VAV-8	1	VSWF0600P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	6" (152mm)	400	120	120	200	200	1ROW	7.84	0.52	160
VAV-9	1	VSWF0600P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	6" (152mm)	370	110	110	195	195	1ROW	7.67	0.51	160
VAV-10	1	VSWF0400P N0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	4" (102 mm)	225	68	68	225	225	1ROW	7.77	0.52	160
VAV-11	1	VSWF1200GN0DD 02BD 1104L 0"0"000000"0000000	VSWF (Series Fan Hot Water Heat)	12" (305mm)	1650	495	495	825	825	1ROW	23.24	1.55	160

Air Terminal Schedule				
Mark	Manufacturer	Model	Description	Size
A	Price Industries	SCD Series	Square Cone Diffuser	8"
B	Price Industries	SCD Series	Square Cone Diffuser	8"
C	Price Industries	SCD Series	Square Cone Diffuser	10"
D	Price Industries	SCD Series	Square Cone Diffuser	12"
E	Price Industries	PDDR Series	Perforated Diffusers Ducted Return	10"x10"
G	Price Industries	710 Series	Lower Face Grille Supply	24"x24"

GENERAL MECHANICAL NOTES

- THE DRAWINGS SHOW THE LOCATION AND ARRANGEMENT OF PIPING, DUCTS, AND EQUIPMENT, TOGETHER WITH DETAILS OF CONNECTIONS OF CERTAIN PRINCIPAL ITEMS. THE LAYOUT SHOWN SHALL BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES WILL PERMIT, BUT THIS CONTRACTOR SHALL REFER TO ARCHITECTURAL, STRUCTURAL, PLUMBING, AND ELECTRICAL DRAWINGS AND SHALL COOPERATE FULLY WITH OTHER CONTRACTORS AND TRADES WHILE INSTALLING DUCTS, PIPING, AND OTHER EQUIPMENT BECAUSE OF CLOSE SPACE LIMITS. IN CASE OF CONFLICT, NOTIFY DESIGNER BEFORE PROCEEDING WITH INSTALLATION. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT BUILDING DIMENSIONS AND LOCATIONS OF PARTITION WALLS, DOORS, CHASES, CASEWORK, ETC. DO NOT SCALE MECHANICAL DRAWINGS FOR SUCH DIMENSIONS.
- THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL OFFSETS, FITTINGS, AND ACCESSORIES THAT MAY BE REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, OR RECOMMENDED BY THE EQUIPMENT MANUFACTURER, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN OR SPECIFIED.
- DUCTWORK SIZES INDICATED ON DRAWINGS ARE FREE INSIDE DIMENSIONS.
- PIPING SIZES INDICATED ARE NOMINAL PIPE SIZE.
- MAXIMUM LENGTH OF FLEXIBLE DUCT IS FIVE FEET (5').
- IN LIEU OF RIGID PIPE CONNECTIONS, STAINLESS STEEL BRAIDED FLEXIBLE HOSE CAN BE UTILIZED AT TERMINAL UNIT LOCATIONS (VAV BOXES, HEAT PUMPS, ETC.).
- ALL VALVES, DAMPERS, CONTROLS, AND OTHER ITEMS REQUIRED FOR OPERATION OR MAINTENANCE ARE TO BE ACCESSIBLE. PROVIDE ACCESS DOORS WHEN LOCATED ABOVE HARD CEILINGS.
- ALL SLEEVES, OUTLET BOXES, AND OTHER ROUGH-INS FOR SUCH ITEMS AS FIRE DAMPERS, PIPE PENETRATIONS, LOUVERS, AND CONTROL ITEMS SHALL BE INSTALLED AS THE BUILDING CONSTRUCTION PROGRESSES.
- PROVIDE AND INSTALL DUCT ACCESS DOORS AT ALL SMOKE DAMPERS, FIRE DAMPERS, DUCT SMOKE DETECTORS, AIR FLOW MONITORING STATIONS, AND OTHER DUCT ACCESSORIES REQUIRING ACCESS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR DUCT SMOKE DETECTOR AND DUCTWORK DEVICE LOCATIONS.
- PROVIDE AND INSTALL VOLUME CONTROL DAMPERS AT ALL SUPPLY, RETURN, AND EXHAUST BRANCH DUCT TAKE-OFFS.
- PROVIDE AND INSTALL ISOLATION VALVES AT ALL PIPING BRANCH TAKE-OFFS WITH MORE THAN ONE PIECE OF CONNECTED EQUIPMENT.
- THIS CONTRACTOR SHALL TAKE FIELD MEASUREMENTS BEFORE FABRICATING ANY DUCTS TO ENSURE THAT DUCT SIZES SHOWN WILL FIT INTO AVAILABLE SPACE. IN CASE OF CONFLICT, NOTIFY THE DESIGNER BEFORE PROCEEDING.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- COORDINATE EXACT LOCATION FOR ALL CEILING DIFFUSERS/GRILLES WITH ARCHITECTURAL, REFLECTED CEILING PLAN AND ELECTRICAL CONTRACTOR'S LIGHTING LAYOUT.
- ALL EMS SENSORS AND OTHER FIELD DEVICES MOUNTED ON WALLS TO BE PROTECTED FROM DAMAGE AS REQUIRED. PROVIDE LOCKING LEXAN COVERS IN LOCATIONS WHERE DAMAGE MAY OCCUR.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TO THE GENERAL CONTRACTOR THE QUANTITY, SIZE AND LOCATIONS OF ALL ACCESS DOORS IN WALLS, DRYWALL CEILINGS, ETC. FOR ACCESS TO VALVES, BALANCE DAMPERS OR OTHER EQUIPMENT AS REQUIRED. COORDINATE THIS WORK WITH THE REFLECTED CEILING PLANS. ALL VALVES OR OTHER DEVICES LOCATED ABOVE THE CEILING SHALL BE LOCATED IN ACCESSIBLE CEILINGS WHEREVER POSSIBLE. THERE SHOULD BE NO VALVES LOCATED ABOVE INACCESSIBLE CEILINGS.
- COORDINATE EXACT SIZE, LOCATION, APPURTENANCES, ETC. FOR ALL ROOF OPENINGS WITH GENERAL CONTRACTOR.
- REFER TO INTERIOR LINTEL SCHEDULE ON STRUCTURAL DRAWINGS AND COORDINATE ALL OPENINGS WITH GENERAL CONTRACTOR PRIOR TO WALL CONSTRUCTION.
- COORDINATE EXACT SIZES REQUIRED FOR ALL OPENING FOR DUCTWORK AND PIPING WITH SPACE REQUIREMENTS, FIRE DAMPER INSTALLATION INSTRUCTIONS, STRUCTURAL DRAWINGS, AND THE GENERAL CONTRACTOR, PRIOR TO FRAMING FOR THE PENETRATIONS.
- THE MECHANICAL CONTRACTOR SHALL THOROUGHLY COORDINATE DUCT / PIPE PENETRATIONS AT STRUCTURAL SHEAR WALLS / SHEAR BRACING WITH STRUCTURAL DRAWINGS AND BUILDING STEEL SHOP DRAWINGS. INSTALL LINTELS AS REQUIRED.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE 2" RIGID INSULATION BLANK OFF PANELS ON ALL ARCHITECTURAL LOUVERS OR PORTIONS THEREOF NOT USED AS INTAKE OR EXHAUST AS SHOWN ON THE DRAWINGS. THE MECHANICAL CONTRACTOR SHALL REVIEW THE LOCATIONS OF ALL ARCHITECTURAL LOUVERS AS SHOWN ON THE BUILDING ELEVATIONS.
- ALL CONTROL DEVICES (SENSORS, STATS, SWITCHES, ETC) TO GENERALLY BE LOCATED ADJACENT TO LIGHT SWITCHES IN EACH ROOM, UNLESS NOTED OTHERWISE. GENERALLY, THIS SHOULD BE AS CLOSE TO DOORSTROKE AS POSSIBLE.
- ALL CEILING MOUNTED SMOKE DETECTORS TO BE MOUNTED AT LEAST 4" FROM ALL CEILING GRILLES / DIFFUSERS.
- ALL STEAM PIPING TO BE SLOPED 1/8" PER 12" (1:100) DOWNWARDS IN THE DIRECTION OF STEAM FLOW.

MECHANICAL SPECIFICATIONS

IT IS THE INTENT OF THESE SPECIFICATIONS TO FURNISH A COMPLETE HEATING, VENTILATING, AND AIR CONDITIONING SYSTEM, FULLY ADJUSTED, AND READY FOR USE.

ALL MECHANICAL WORK TO BE DONE IN COMPLIANCE WITH NORTH CAROLINA BUILDING CODE AND ALL LOCAL CODES.

THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL SALES TAXES, AND OTHER COSTS, IN CONNECTION WITH HIS WORK.

ALL MATERIAL AND EQUIPMENT THAT CAN BE U.L. LISTED SHALL BE FURNISHED FOR THIS PROJECT.

MATERIAL AND EQUIPMENT HAS BEEN CAREFULLY SELECTED FOR THIS PROJECT AND THE CONTRACTOR IS EXPECTED TO PROVIDE ALL ITEMS AS CLOSELY AS POSSIBLE TO THE SPECIFICATIONS AND AS CALLED FOR ON THE DRAWINGS.

SUBMIT THREE (3) SETS OF EQUIPMENT DATA SHOP DRAWINGS TO ENGINEER FOR ALL ITEMS TO BE FURNISHED AND INSTALLED FOR APPROVAL.

THIS CONTRACTOR SHALL INCLUDE IN THE WORK WITHOUT EXTRA COST TO THE OWNER ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED. NO CLAIM FOR EXTRAS WILL BE APPROVED WITHOUT PRIOR COORDINATION FOR CONFLICTS BY CONTRACTOR, AND WRITTEN REQUEST AND WRITTEN APPROVAL PRIOR TO PERFORMING WORK.

ALL WORK AND EQUIPMENT TO BE GUARANTEED BY CONTRACTOR FOR ONE (1) YEAR. AN ADDITIONAL FOUR (4) YEAR WARRANTY SHALL BE PROVIDED ON ALL COMPRESSORS.

ALL MATERIALS AND EQUIPMENT TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND GOOD RECOMMENDED PRACTICES.

ALL WORK AND MATERIALS SHALL MEET APPROVAL OF ARCHITECT/ENGINEER.

THIS CONTRACTOR SHALL GIVE FULL COOPERATION TO OTHER TRADES. WHERE THE WORK OF THIS CONTRACTOR WILL BE INSTALLED IN CLOSE PROXIMITY TO, OR WILL INTERFERE WITH WORK OF OTHER TRADES, HE SHALL ASSIST IN WORKING OUT SPACE CONDITIONS TO MAKE SATISFACTORY ADJUSTMENTS. IF THIS CONTRACTOR INSTALLS HIS WORK BEFORE COORDINATING WITH OTHER TRADES, HE SHALL MAKE THE NECESSARY CHANGES IN HIS WORK TO CORRECT THE CONDITION WITHOUT EXTRA CHARGE.

DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. DRAWINGS ARE NOT TO BE SCALED.

ALL DUCTWORK TO BE FABRICATED FROM GALVANIZED SHEET METAL AND INSTALLED ACCORDING TO REQUIREMENTS OF NFPA 90A, SMACNA, AND ASHRAE GUIDE AND DATA BOOKS.

ALL FLEXIBLE DUCTWORK, FOR CONNECTIONS BETWEEN DIFFUSERS AND BRANCH DUCTS WHERE INDICATED, TO BE THERMAFLEX TYPE "MK".

ALL DUCT SEAMS TO BE TAPED WITH FASSON WAFTS-1003 SMACNA TAPE, OR EQUAL.

VOLUME CONTROL DAMPERS (BALANCING) SHALL BE INSTALLED IN EACH BRANCH OR ZONE DUCT.

DAMPERS WHICH ARE PART OF A MANUFACTURED AIR GRILL DO NOT MEET THIS REQUIREMENT.

ALL SQUARE ELBOWS SHALL HAVE TURNING VANES INSTALLED. TURNING VANES SHALL BE APPLIED EQUALLY TO THE RETURN AIR SIDE.

DUCTWORK SIZES INDICATED ON DRAWINGS ARE AS REQUIRED FOR FREE INSIDE AREAS.

ALL DUCTWORK TO BE INSULATED WITH 2" BLANKET TYPE INSULATION 1 LB. DENSITY (MIN. R-6.5) WITH VAPOR BARRIER JACKET OF .002 INCH THICK ALUMINUM FOIL LAMINATED.

ALL PIPING H.W. PIPING TO BE INSULATED WITH 1" INSULATION FOR ALL PIPING LESS THAN OR EQUAL TO 1.5" DIAMETER, AND 2" INSULATION FOR ALL PIPING OF LARGER THAN 1.5" DIAMETER. INSULATION TO HAVE A CONDUCTIVITY NOT TO EXCEED K= .27. INSULATION TO BE COVERED WITH ASJ, AND LABELED WITH COLOR-CODED PIPING TAGS WITH FLOW ARROWS.

ALL PIPING AND DUCTWORK TO BE SUSPENDED WITH APPROPRIATE HANGERS, INSTALLED AND SPACED PER NC MECHANICAL CODE.

ALL SUPPLY GRILLES AND DIFFUSERS TO BE EQUIPPED WITH VOLUME CONTROLS.

AIR HANDLING EQUIPMENT SHALL BE ISOLATED FROM DIRECT CONTACT WITH SUPPLY OR RETURN AIR DUCTWORK. FLEXIBLE CONNECTIONS SHALL BE INSTALLED BETWEEN THE EQUIPMENT AND DUCT. FLEXIBLE CONNECTIONS SHALL BE MADE OF APPROVED FLAMEPROOFED FABRIC OR OTHER APPROVED NON-COMBUSTIBLE MATERIAL.

OUTDOOR EQUIPMENT LOCATED IN ALLEYS, DRIVEWAYS, PARKING AREAS, ETC., SHALL BE PROTECTED FROM DAMAGE. GRADE LEVEL EQUIPMENT SHALL BE INSTALLED ON A PRE-FORMED BASE, A STRUCTURAL FRAME, OR A CONCRETE BASE, PROPERLY INSTALLED TO INSURE ITS LEVEL BEING MAINTAINED REGARDLESS OF WEATHER CONDITIONS.

REFRIGERANT PIPING UNDERGROUND SHALL BE INSTALLED IN A PIPING CHASE. THIS CHASE MAY CONSIST OF PVC, CLAY TILE, CAST IRON, OR OTHER APPROVED PIPING MATERIALS, SUITABLE FOR UNDERGROUND USE. PIPING CHASES SHALL BE OF SUCH SIZE AS TO PERMIT THE REPLACEMENT OF THE REFRIGERANT PIPING.

EACH HEATING AND/OR COOLING SYSTEM SHALL HAVE A DEVICE, OR DEVICES, FOR CLEANING OR FILTERING BOTH RETURN AND OUTDOOR AIR.

LOW VOLTAGE WIRING (90 VOLTS OR LESS) WITHIN A STRUCTURE SHALL BE INSTALLED IN A MANNER TO PREVENT PHYSICAL DAMAGE. SUCH WIRING EXPOSED TO WEATHER SHALL BE INSTALLED BY A METHOD APPROVED FOR EXTERIOR USE.

THIS CONTRACTOR TO PERFORM ALL ADJUSTMENTS AND BALANCING OF SYSTEMS, EQUIPMENT, CONTROLS, ETC., NECESSARY FOR THE SYSTEM TO PROVIDE THE REQUIRED PERFORMANCE AND TO OPERATE SAFELY. SUBMIT "AS-BUILT" DRAWINGS TO ENGINEER SHOWING ACTUAL AIR FLOWS AT EACH GRILL INSTALLED UNDER THIS CONTRACT.

REFRIGERANT PIPING, VALVES, FITTINGS AND RELATED PARTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. ALL LIQUID AND SUCTION LINES SHALL BE INSULATED WITH 3/4" ARMAFLEX TO PREVENT SWEATING AND HEAT GAIN. ALL EXTERIOR, VERTICAL PIPING TO BE CONCEALED WITH MITSUBISHI LINE HIDE SYSTEM (OR EQUAL).

CONDENSATE DRAINS FROM AIR CONDITIONING UNITS SHALL BE SIZED AND INSTALLED IN ACCORDANCE WITH THE UNIT MANUFACTURER'S RECOMMENDATIONS. CONDENSATE DRAINS SHALL BE PIPING (OR PLUMBED) TO THE OUTSIDE OF BUILDING, NATURAL DRAIN, DRY WELL, LAVATORY, SERVICE SINK, ROOF DRAIN, OR STORM SEWER, CONNECTED DIRECTLY TO THE DRAINAGE PIPING BETWEEN A LAVATORY, SERVICE SINK OR LBS SINK AND ITS TRAP, OR CONNECTED INDIRECTLY (AIR GAP) TO A PROPERLY TRAPPED AND VENTED CONNECTION TO THE SANITARY DRAINAGE OR VENT SYSTEMS, IN COMPLIANCE WITH LOCAL PLUMBING CODE REQUIREMENTS.

IN ATTICS, ABOVE CEILING OR OTHER AREAS WHERE CONDENSATE DAMAGE MAY OCCUR, AN AUXILIARY DRAIN PAN SHALL BE INSTALLED UNDER THE COOLING AND /OR HEATING EQUIPMENT, WITH PAN AND EQUIPMENT HAVING SEPARATE DRAINS.

UPON COMPLETION OF ALL WORK AND ALL TESTS, INSTRUCT THE OWNER OR HIS REPRESENTATIVE FULLY IN THE OPERATIONS, ADJUSTMENTS, AND MAINTENANCE OF ALL EQUIPMENT FURNISHED.

PROVIDE OWNER MAINTENANCE INSTRUCTIONS AND SCHEDULE FOR THE PRINCIPAL ITEMS OF EQUIPMENT FURNISHED. MANUFACTURER'S ADVERTISING LITERATURE OR CATALOGS WILL NOT BE ACCEPTABLE.

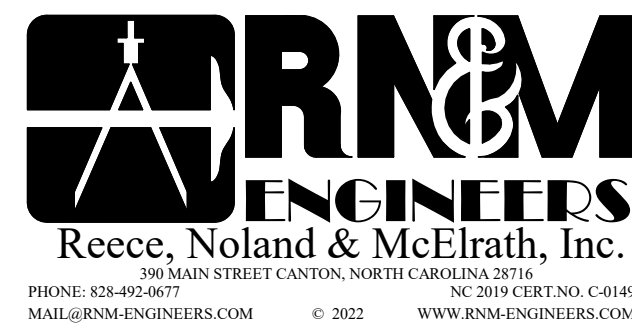
GAS PIPING WITHIN THE BUILDING SHALL BE BLACK STEEL SCHEDULE 40. CONTRACTOR TO PAY UTILITY CHARGES FOR GAS SERVICE TO BUILDING.

THIS CONTRACTOR TO PROVIDE GAS PRESSURE REGULATORS FOR ALL GAS FIRED EQUIPMENT AS REQUIRED FOR PROPER OPERATION. PIPE REGULATOR RELIEF TO OUTSIDE BUILDING WITH SCREEN OVER OPENING.

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MECHANICAL DETAILS

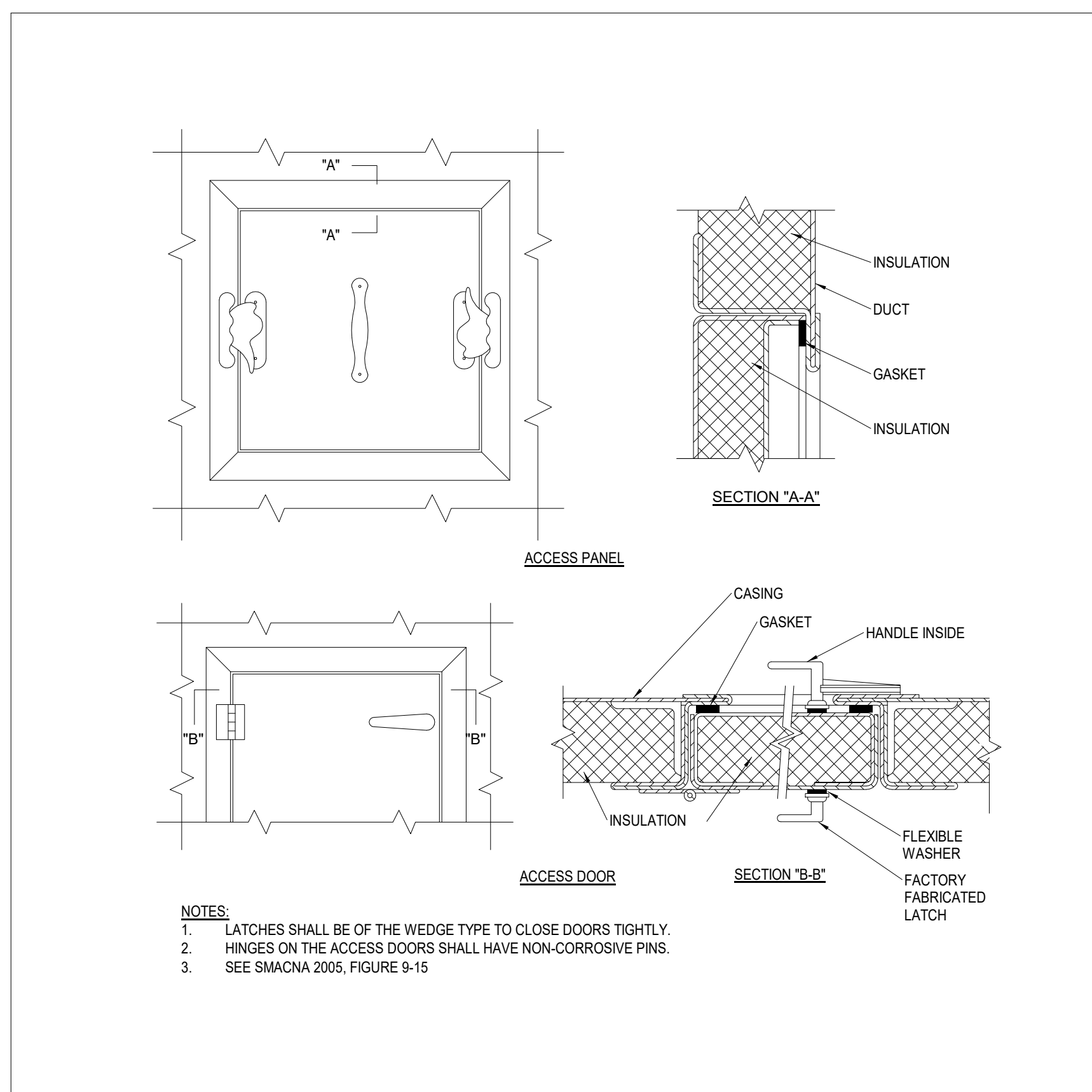
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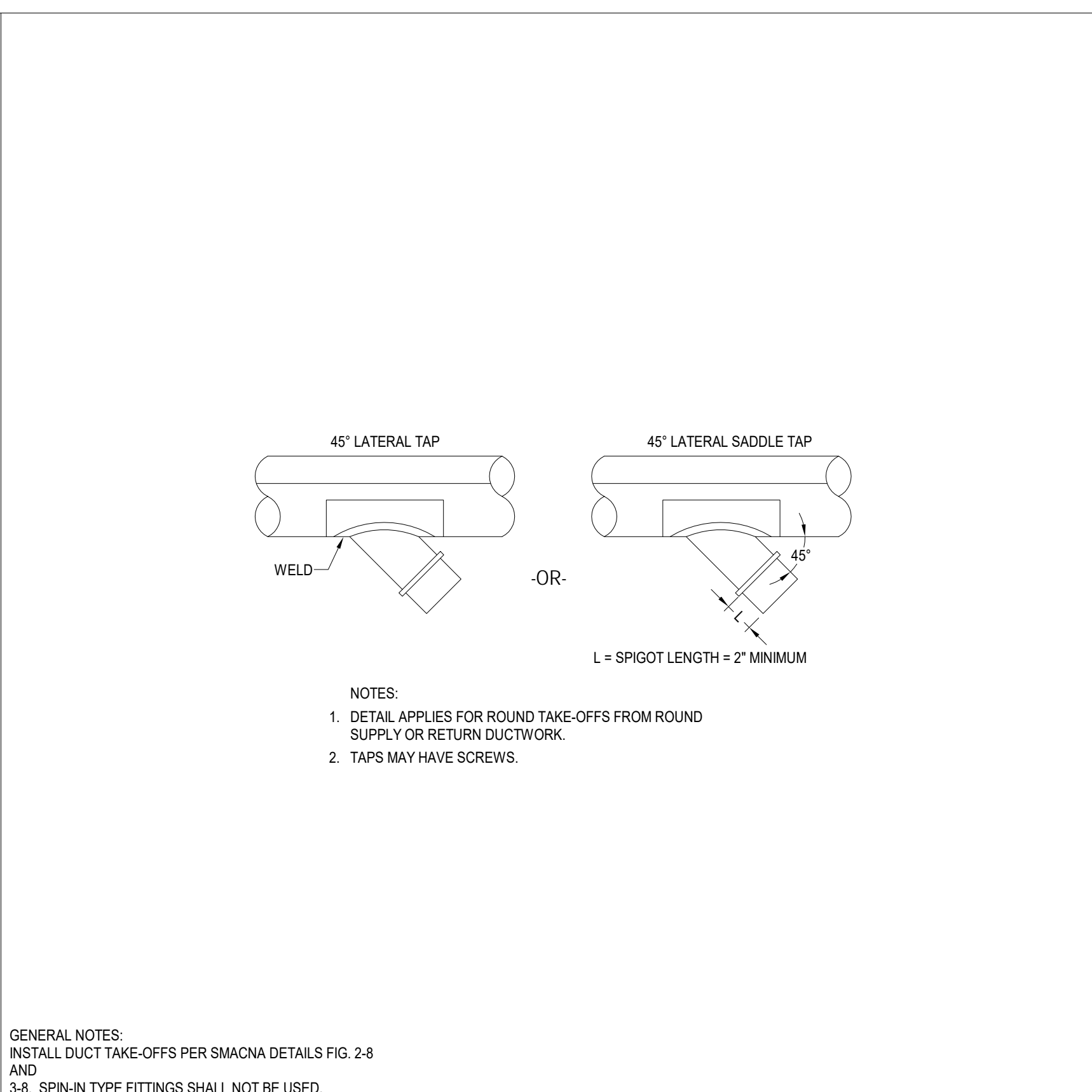
THIS DRAWING IS THE PROPERTY OF ADW ARCHITECTS, P.A. AND SHALL NOT BE REPRODUCED OR COPIED IN WHOLE OR PART. IT SHALL NOT BE USED ON ANY OTHER PROJECT OR GIVEN TO ANY OTHER COMPANY OR AGENCY WITHOUT THE CONSENT OF ADW ARCHITECTS, P.A.

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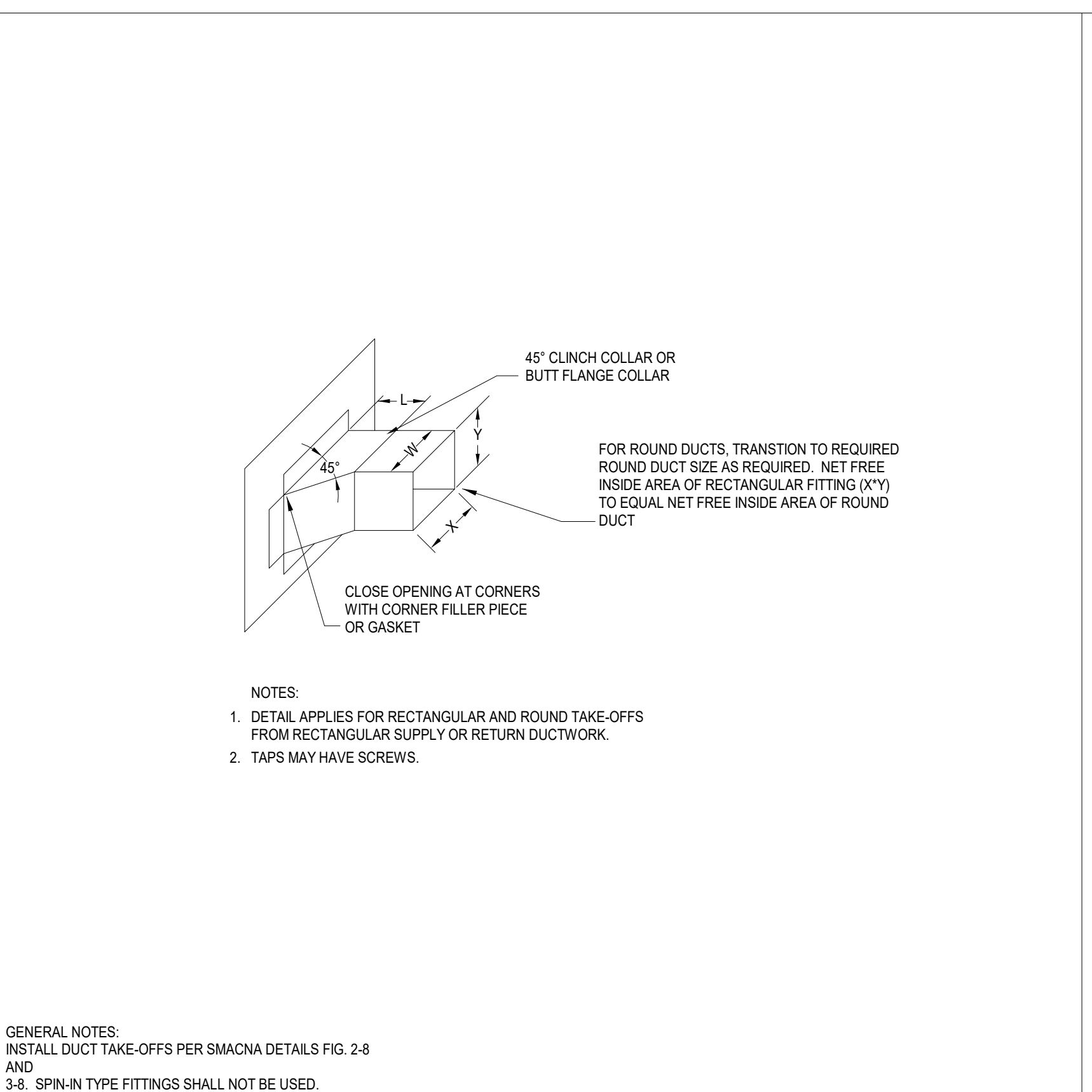
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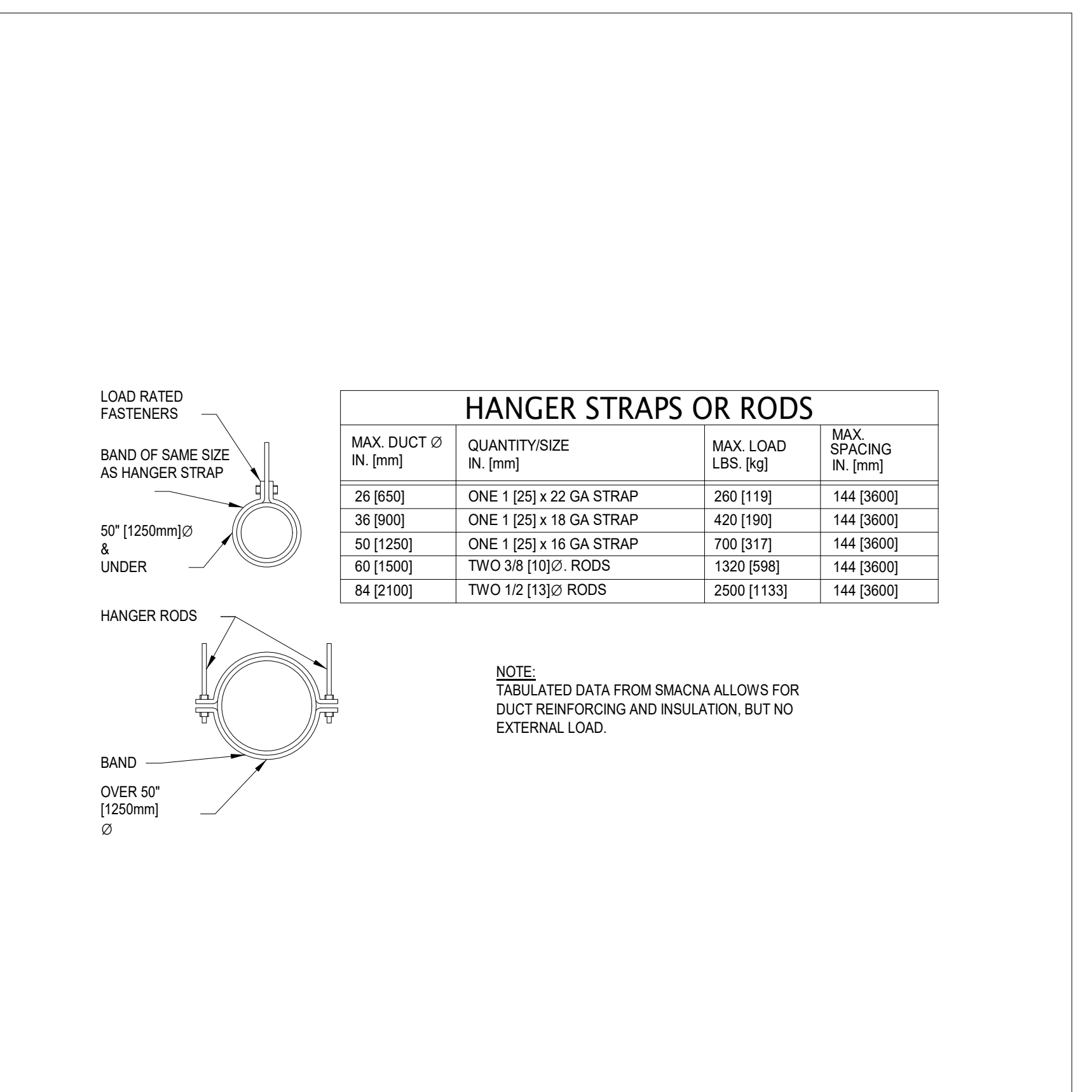
1. ACCESS PANEL AND DOOR DETAIL SCALE: NTS



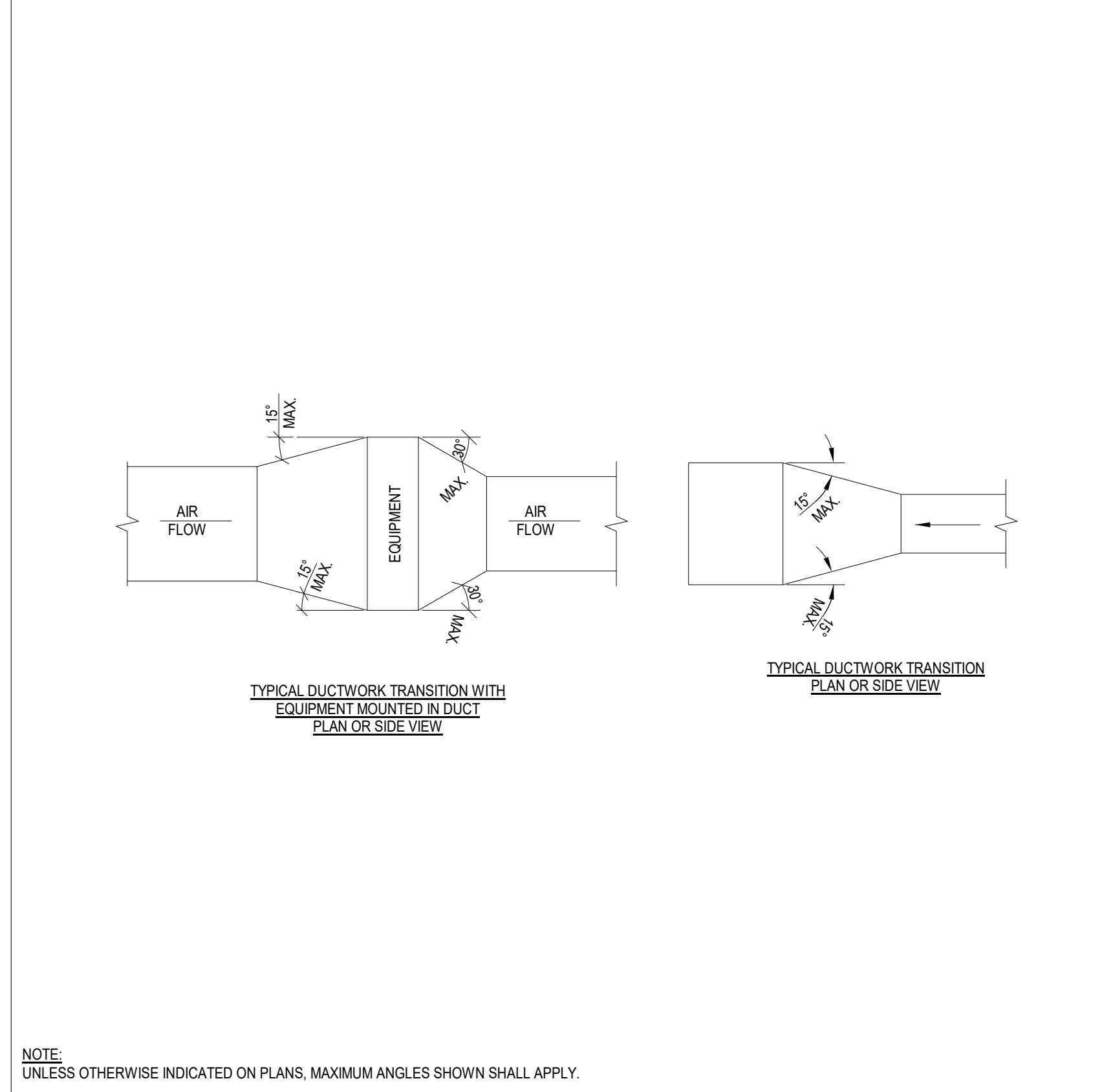
2. TYPICAL ROUND 45° TAKE-OFF SCALE: NTS



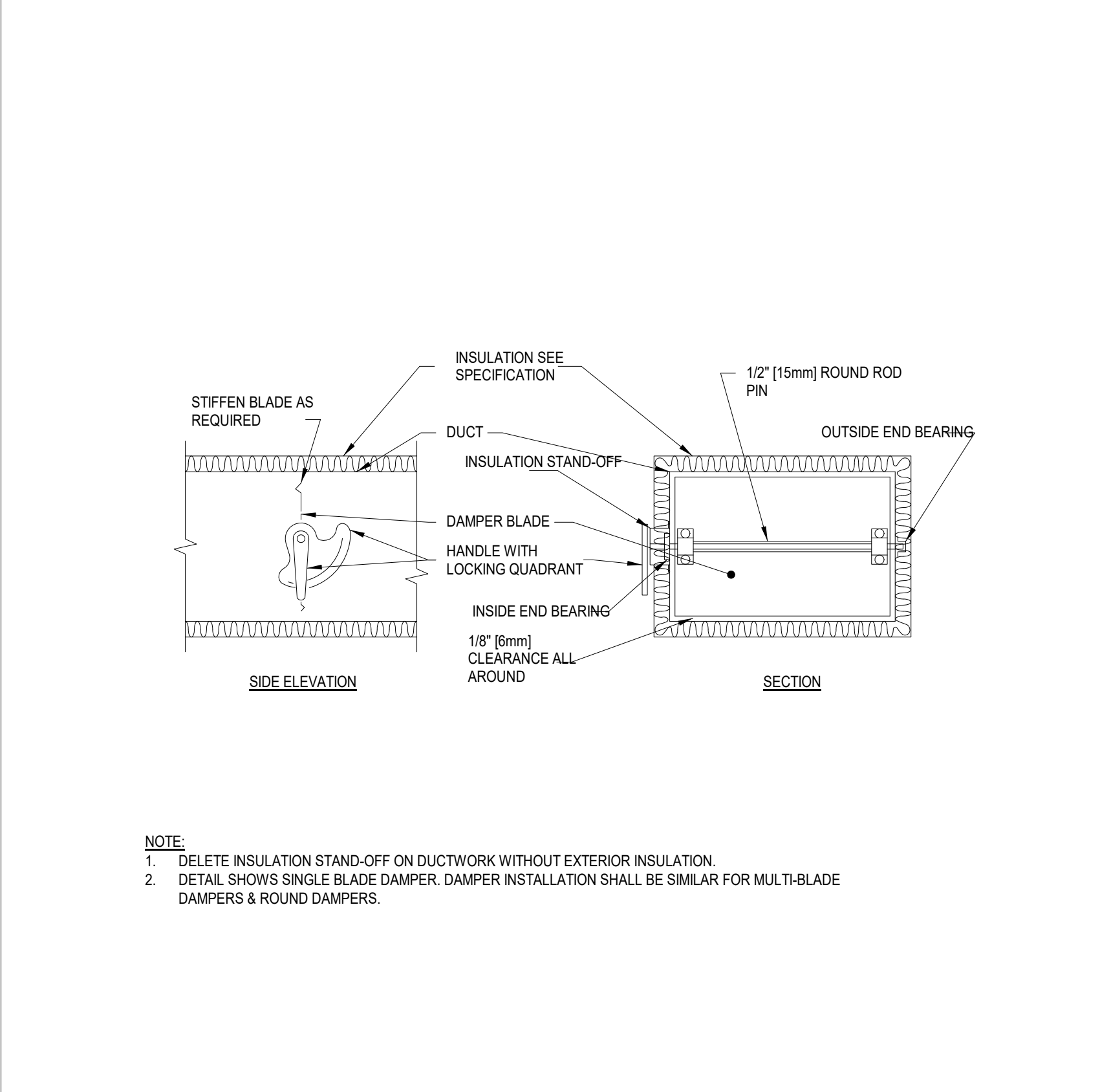
3. TYPICAL RECTANGULAR DUCT 45° TAKE-OFF SCALE: NTS



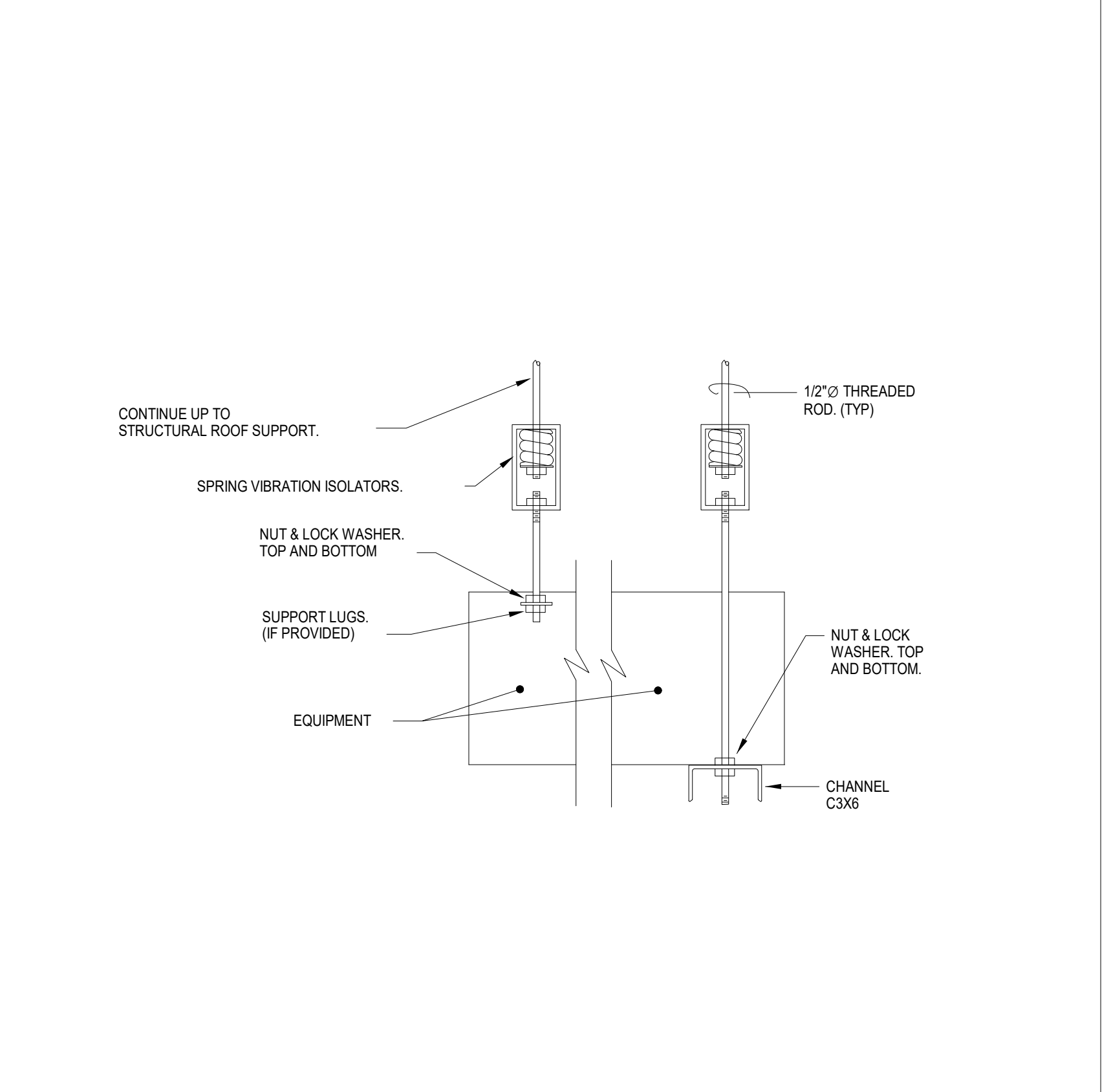
4. ROUND DUCT HANGERS SCALE: NTS



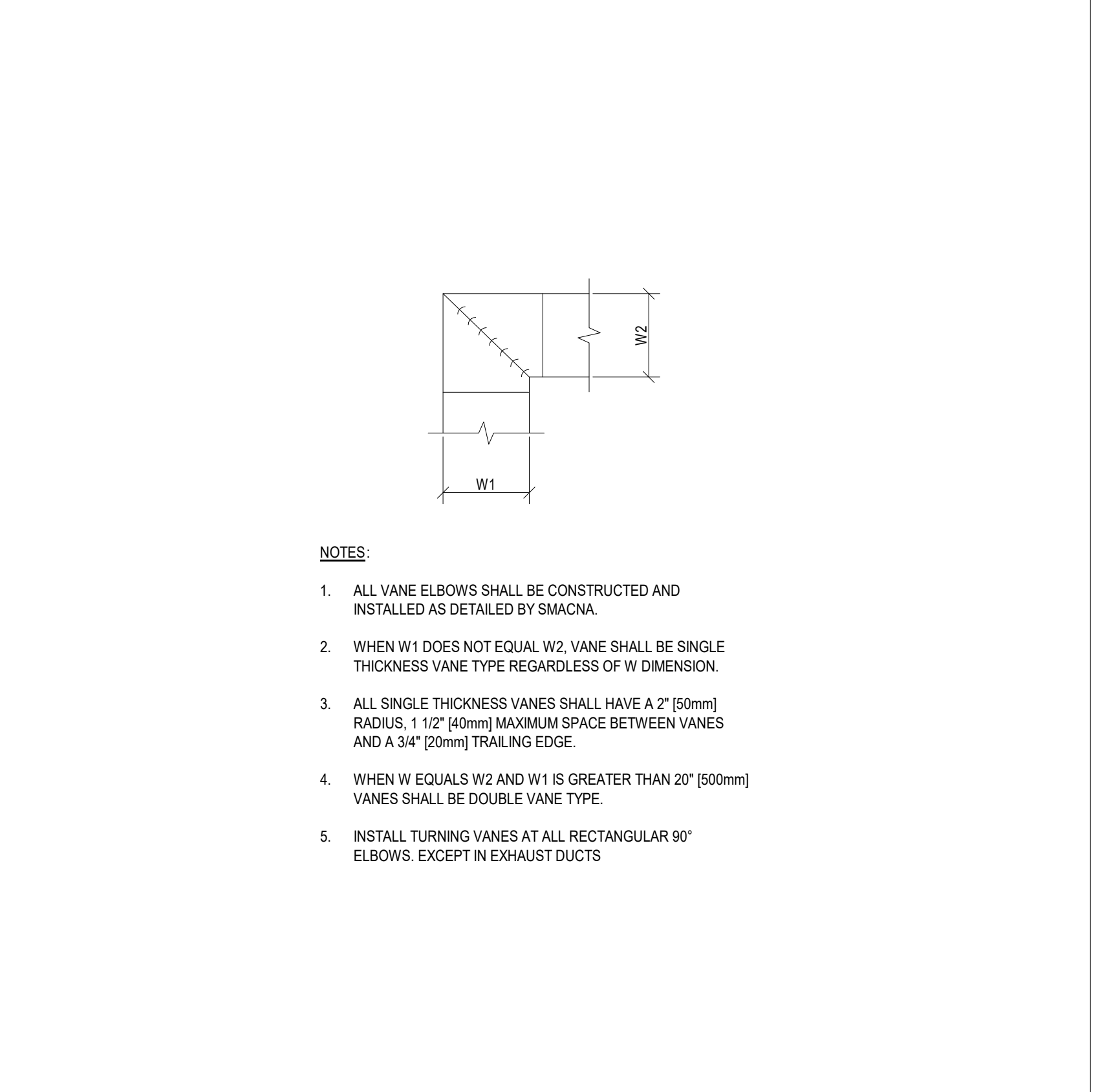
5. DUCTWORK TRANSITIONS SCALE: NTS



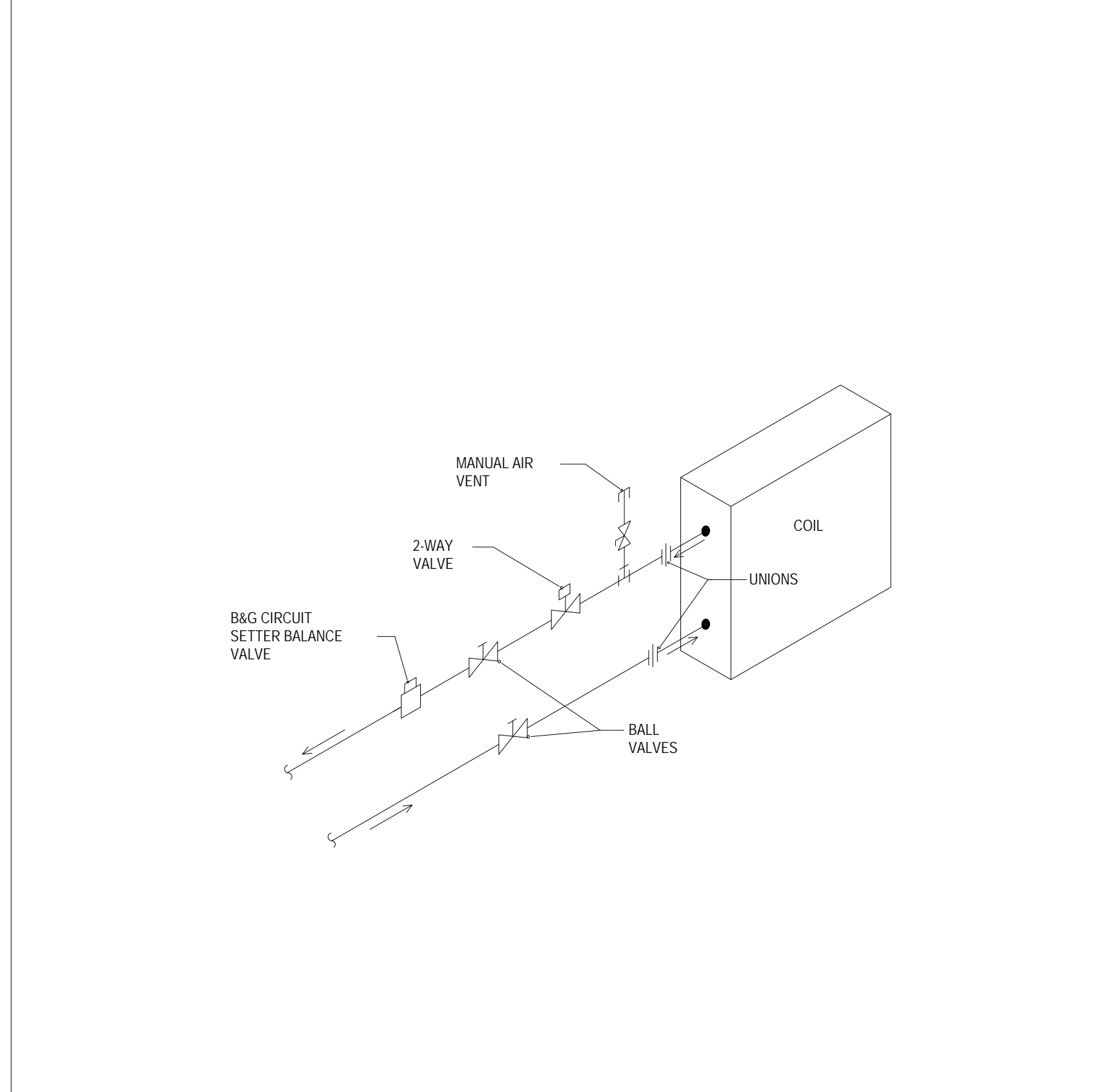
6. VOLUME DAMPER DETAIL SCALE: NTS



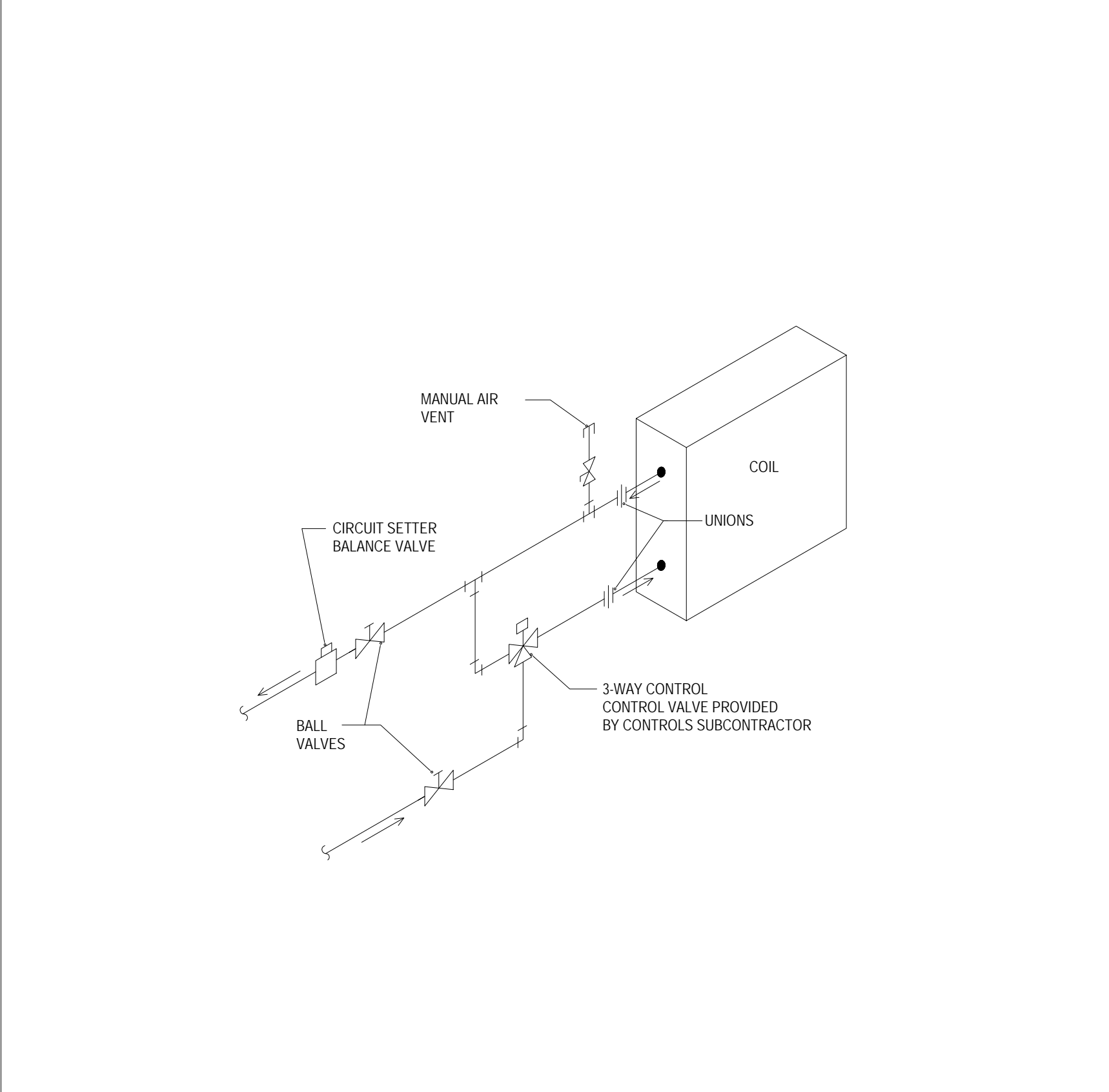
7. SUSPENDED EQUIPMENT SUPPORT SCALE: NTS



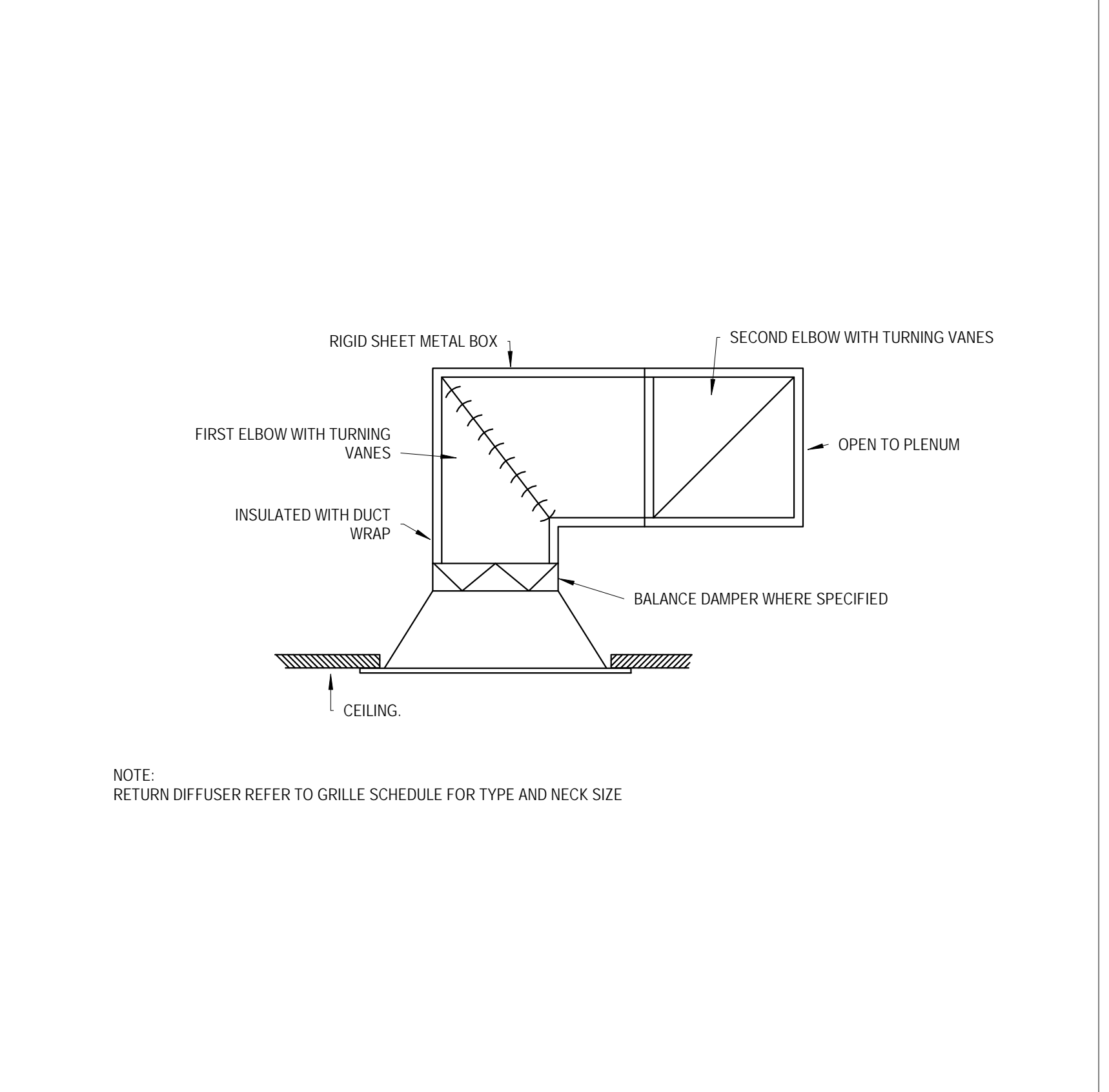
8. TYPICAL TURNING VANES SCALE: NTS



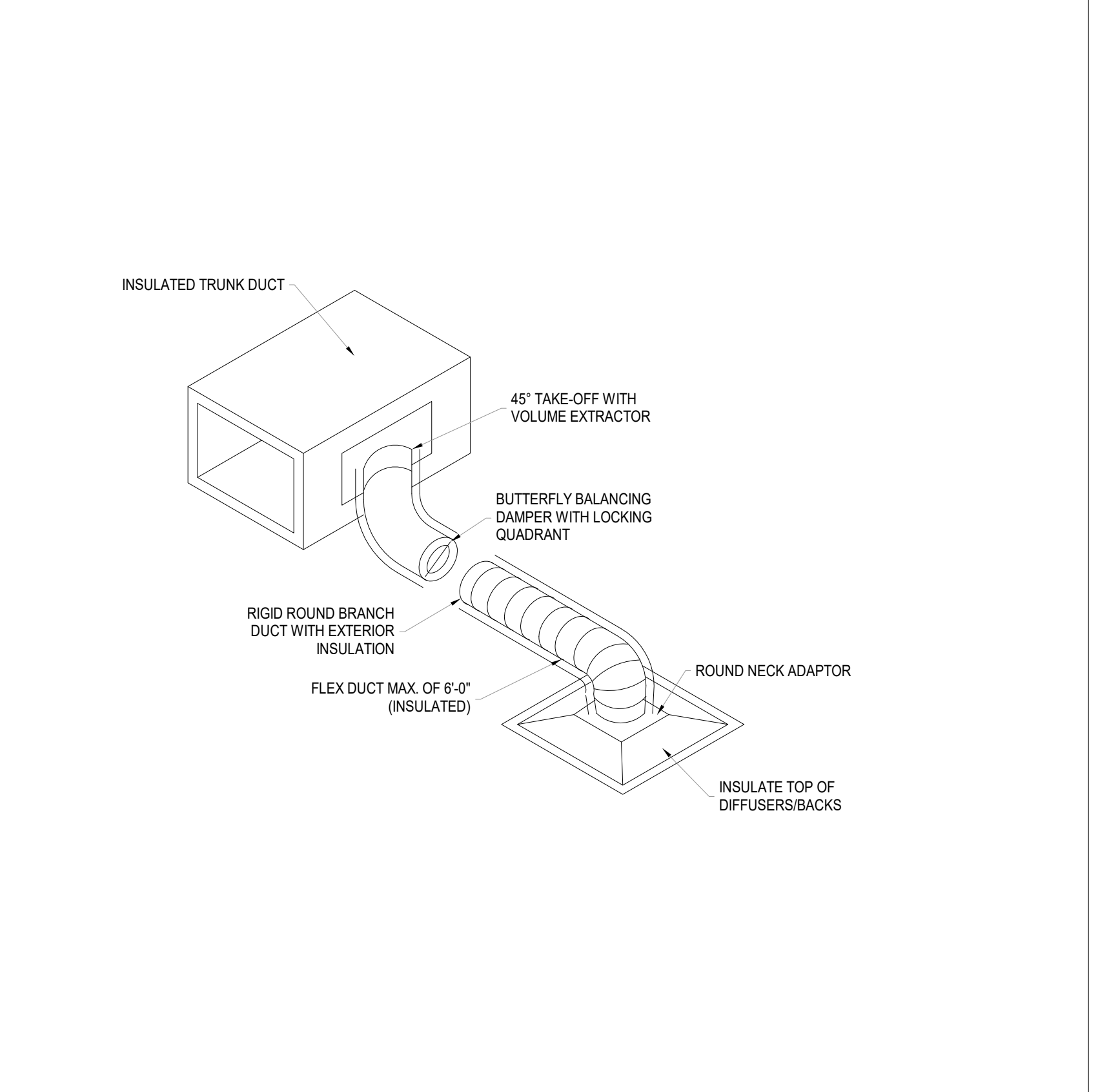
9. TYPICAL FAN COIL UNIT PIPING (2-WAY VALVE) SCALE: NTS



10. TYPICAL FAN COIL UNIT PIPING (3-WAY VALVE) SCALE: NTS



11. PLENUM RETURN CEILING GRILLE DETAIL SCALE: NTS



12. LOW PRESSURE BRANCH TAKE OFF DETAIL SCALE: NTS



HENDERSONVILLE
CITY HALL

160 6TH AVE
HENDERSONVILLE, NC
28792

CITY HALL LEVEL 1
DEMOLITION PLANS

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE: DESCRIPTION:

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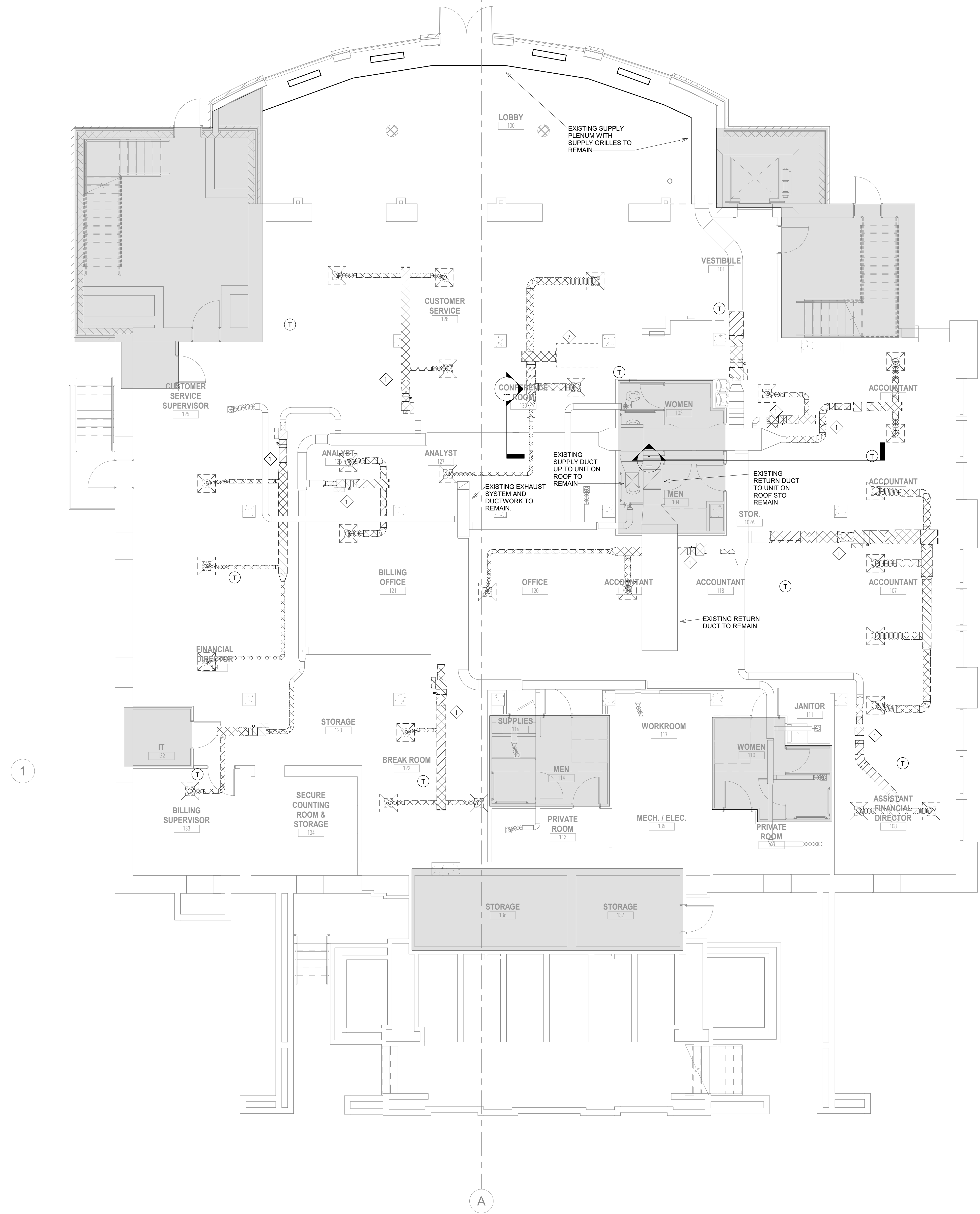
SHEET NUMBER

M-100

KEYED MECHANICAL DEMOLITION NOTES

① REMOVE EXISTING SUPPLY DIFFUSER AND ASSOCIATED SUPPLY DUCTWORK AND EXISTING FAN POWERED VAV BOX AS SHOWN. RE USE POWERCONTROL WIRING AND PIPING AS PRACTICAL FOR NEW BOX TO BE INSTALLED.

② REMOVE EXISTING LIEBERT UNIT (ABOVE CEILING) COMPLETE INCLUDING ALL POWERCONTROL WIRING, PIPING, AND ASSOCIATED SUPPLY DUCTWORK AND GRILLES.





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CITY HALL LEVEL 1
MECHANICAL PLAN

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS

NO.	DATE	DESCRIPTION
1	12.22.2022	Bid Coordination

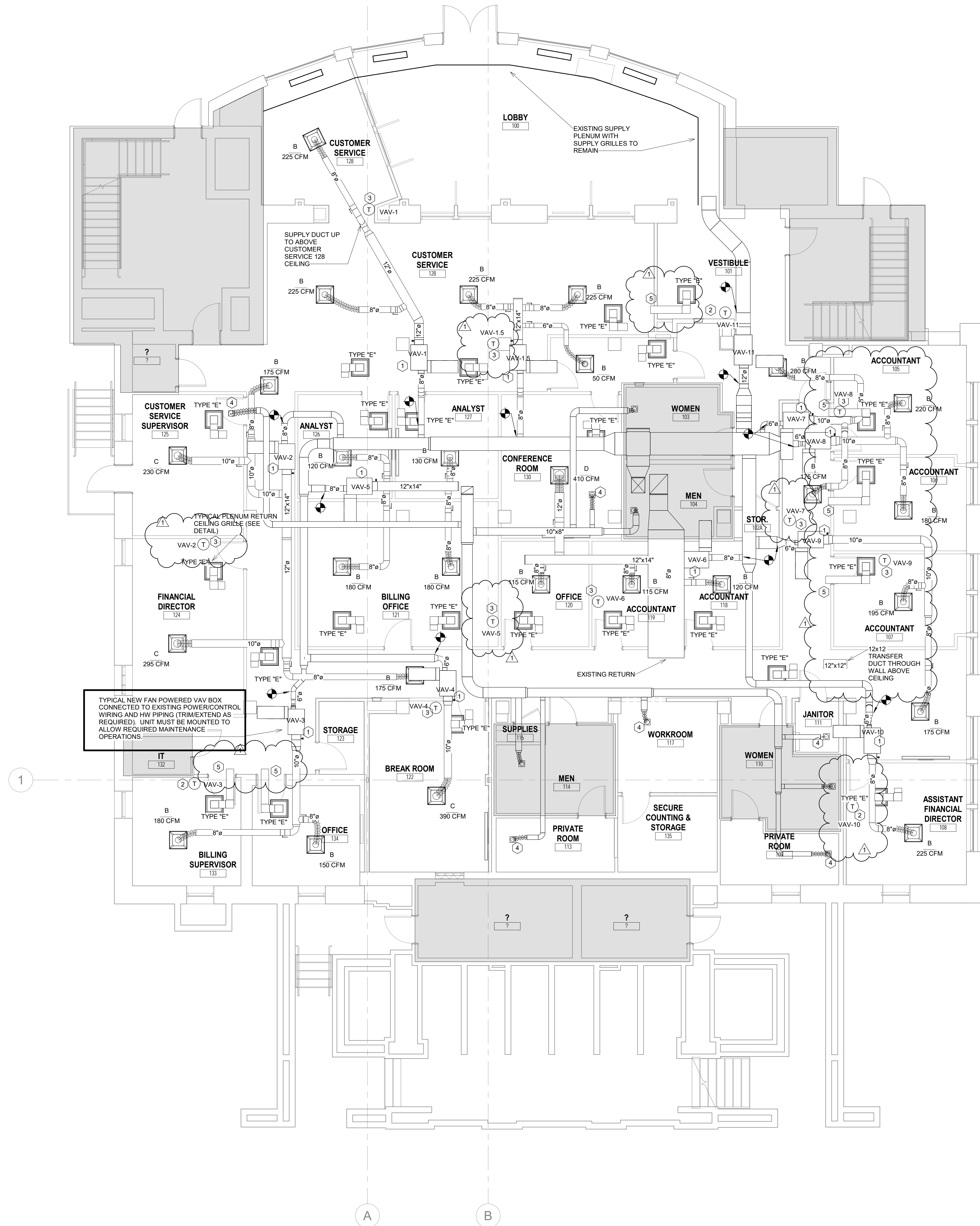
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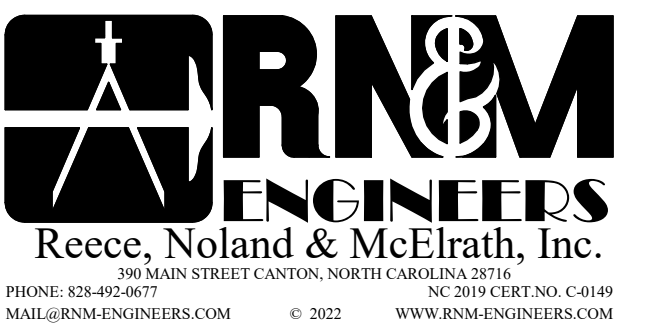
SHEET NUMBER

M-101

KEYED MECHANICAL CONSTRUCTION NOTES

1	NEW FAN POWERED VAV BOX INSTALLED ABOVE CEILING RELOCATED AS REQUIRED SO AS TO FACILITATE ACCESS FOR SERVICE AND MAINTENANCE. BE PARTICULARLY MINDFUL OF SERVICE CLEARANCES AND ANY EXISTING INFRASTRUCTURE ABOVE CEILING. TRIM/EXTEND DUCT AS REQUIRED AND RE CONNECT TO EXISTING HW PIPING. CONNECT TO EXISTING POWER/CONTROL WIRING. BALANCE TO NEW CFM.
2	EXISTING T-STAT IN ORIGINAL LOCATION.
3	EXISTING T-STAT IN NEW LOCATION. TRIM/EXTEND CONTROL WIRING AS REQUIRED.
4	RESET EXISTING GRILLE IN NEW CEILING.
5	EXTEND RETURN DUCT THROUGH WALL ABOVE CEILING.





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ALTERATIONS TO
**HENDERSONVILLE
CITY HALL**

160 6TH AVE
HENDERSONVILLE, NC
28792

**CITY HALL LEVEL 1
ELECTRICAL DEMOLITION
PLAN**

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS		
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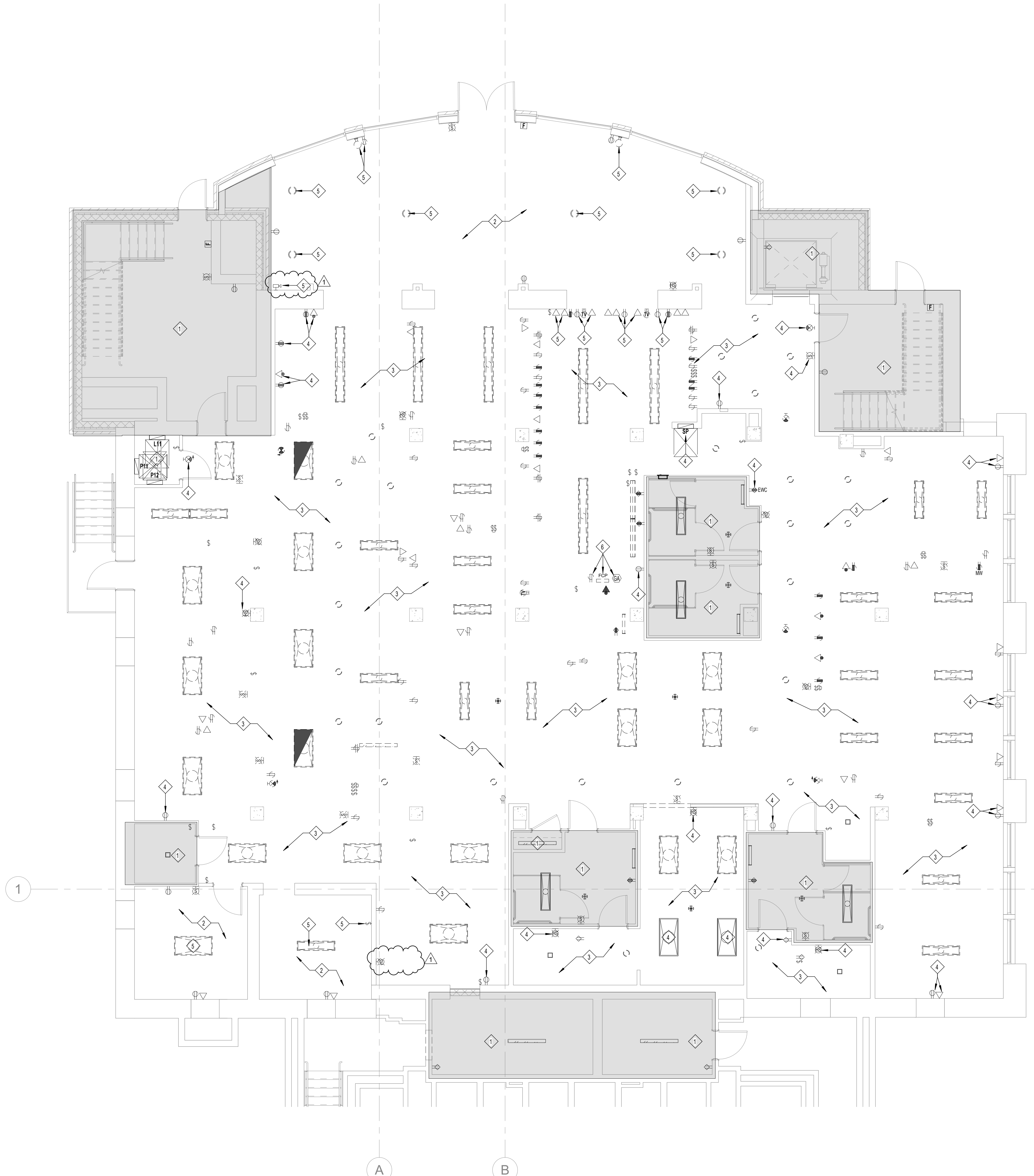
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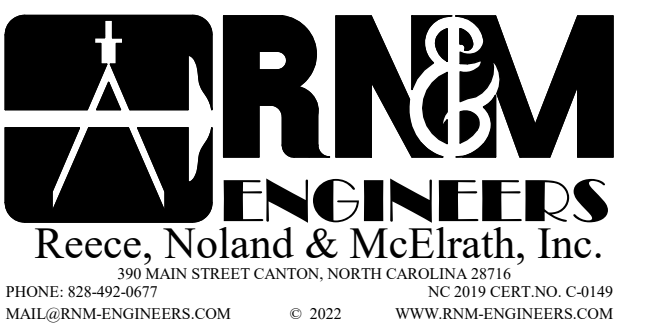
E-100

- GENERAL NOTES FOR ELECTRICAL DEMOLITION**
- FOR WALL MOUNTED DEVICES (TYPICALLY RECEPTABLES, DATA/TV OUTLETS, NURSE CALL, SECURITY ACCESS & LIGHT SWITCHES) UNLESS SPECIFICALLY IDENTIFIED BY DEMOLITION NOTE, WALL MOUNTED DEVICES ARE TO BE REMOVED.
 - FOR CEILING MOUNTED DEVICES (TYPICALLY LIGHTING FIXTURES, EXIT LIGHTS, DOME LIGHTS, WIRELESS TRANSMITTERS, CAMERAS, SMOKE DETECTORS, SPEAKERS, ETC.) UNLESS NOTED OTHERWISE IN DEMOLITION NOTES, CEILING DEVICES ARE TO BE REMOVED.
 - LIGHTING, POWER, DATA, INTERCOM, SECURITY AND NURSE CALL SYSTEMS - CONTRACTOR MAY REUSE EXISTING CONDUIT AND WIRING TO THE EXTENT POSSIBLE IN PROVIDING A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR IS TO PROVIDE ALL LABOR & MATERIALS, INCLUDING BUT NOT LIMITED TO DEVICES, BOXES, CONDUIT, AND WIRING FROM ALL DEVICES TO APPROPRIATE DISTRIBUTION/CONTROL PANEL IN ORDER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR TO FIELD VERIFY ALL EXISTING QUANTITIES AND LOCATIONS & COORDINATE CLOSELY WITH OWNER.
 - FIRE ALARM SYSTEM - CONTRACTOR MAY REUSE EXISTING CONDUIT AND WIRING TO THE EXTENT POSSIBLE IN PROVIDING A COMPLETE AND OPERABLE ADDRESSABLE FIRE ALARM SYSTEM THAT WILL BE UL COMPLIANT. CONTRACTOR IS TO PROVIDE ALL LABOR & MATERIALS, INCLUDING BUT NOT LIMITED TO DEVICES, BOXES, CONDUIT, POWER BOOSTERS, EXPANSION MODULES, AND WIRING FROM ALL DEVICES TO APPROPRIATE CONTROL PANEL OR POWER SUPPLY IN ORDER TO PROVIDE A COMPLETE AND OPERABLE SYSTEM. CONTRACTOR TO FIELD VERIFY ALL EXISTING QUANTITIES AND LOCATIONS & COORDINATE CLOSELY WITH OWNER.
 - E.G. TO TAKE CARE IN REMOVING, TAGGING, & STORING DEVICES DURING DEMO PHASE, & REPLACING DEVICES TO BE REUSED DURING NEW CONSTRUCTION PHASE. EXISTING CEILING MOUNTED DEVICES TO BE REINSTALLED AS CLOSE AS POSSIBLE TO ORIGINAL LOCATION. PROVIDE MATERIAL AND LABOR FOR EXTENDING CONDUIT & WIRING, AS REQUIRED, FOR REINSTALLATION. ENSURE PROPER OPERATION AFTER CONSTRUCTION.
 - WHERE RECEPTABLES ARE REMOVED, ELECTRICAL CONTRACTOR TO REMOVE EXISTING RECEPTABLE DEVICE, BOX, CONDUIT AND WIRING BACK TO ITS SOURCE. WHERE CIRCUIT FEEDING RECEPTACLE TO BE REMOVED ALSO FEEDS RECEPTABLES THAT ARE TO REMAIN, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, WIRING AND BOXES AS REQUIRED TO REFEED EXISTING RECEPTABLES, AS REQUIRED, FOR PROPER OPERATION. SEE INSTALLATION DRAWINGS AND PANEL SCHEDULES FOR ADDITIONAL CIRCUITING INFORMATION.
 - WHERE LIGHTING FIXTURES AND ASSOCIATED SWITCHING ARE REMOVED, ELECTRICAL CONTRACTOR TO REMOVE EXISTING FIXTURE SWITCH, SWITCH BOX, CONDUIT AND WIRING BACK TO ITS SOURCE. WHERE CIRCUIT FEEDING FIXTURE(S) TO BE REMOVED ALSO FEEDS FIXTURE(S) THAT ARE TO REMAIN, ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT, WIRING AND BOXES AS REQUIRED TO REFEED EXISTING FIXTURE(S), AS REQUIRED, FOR PROPER OPERATION. SEE INSTALLATION DRAWINGS AND PANEL SCHEDULES FOR ADDITIONAL CIRCUITING INFORMATION.

- EXISTING BUILDING NOTES**
- REMOVE ALL CONDUIT, WIRING, AND ELECTRICAL EQUIPMENT, INCLUDING PREVIOUSLY ABANDONED, RENDERED USELESS BY CONSTRUCTION.
 - LOCATIONS SHOWN FOR EXISTING DEVICES ARE TAKEN FROM BUILDING AS-BUILT DRAWINGS & WALK THRU SITE VISIT, AND ARE GENERALLY SHOWN FOR PURPOSES OF REFERENCE AND INTENT ONLY. VERIFY EXACT CONDITIONS, QUANTITIES, LOCATIONS, CIRCUITRY, CONDUIT ROUTING, ETC. IN FIELD.
 - EXISTING DEVICES, ARE SHOWN WITH LIGHTER TEXT AND DASHED OUTLINE.
 - EXISTING WIRING AND RACKINGS TO BE REUSED WHERE POSSIBLE OR PRACTICAL, AND EXISTING WIRING IS FOUND TO BE IN GOOD CONDITION, REPLACE ANY EXISTING WIRING FOUND TO BE IN POOR CONDITION. ALL NEW INSTALLATIONS SHALL USE NEW WIRE, TYPICAL.
 - ALL MATERIALS REMOVED AND NOT TO BE REUSED ARE TO BE DISPOSED OF PER OWNERS INSTRUCTIONS.

- KEYED ELECTRICAL DEMOLITION NOTES**
- APPLY TO THIS SHEET ONLY
- NO WORK THIS ROOM / AREA. INSPECT EXISTING ELECTRICAL DEVICES & CLEAN, REPAIR OR REPLACE AS REQUIRED FOR PROPER OPERATION.
 - THIS ROOM / AREA - ALL EXISTING ELECTRICAL DEVICES TO REMAIN UNLESS NOTED OTHERWISE. EXISTING ELECTRICAL DEVICES TO REMAIN ARE TO BE CLEANED & REPAIRED OR REPLACED FOR NORMAL OPERATION. RE-LAMP EXISTING LIGHT FIXTURES.
 - THIS ROOM / AREA - ALL EXISTING ELECTRICAL DEVICES TO BE REMOVED UNLESS NOTED OTHERWISE. EXISTING WIRING & CONDUIT TO BE REMOVED TO SOURCE. COORDINATE THAT CIRCUIT(S) FOR ITEMS TO REMAIN ARE LEFT IN OPERATION.
 - EXISTING ELECTRICAL DEVICES TO REMAIN. CLEAN & REPAIR OR REPLACE AS REQUIRED FOR PROPER OPERATION. EXISTING LIGHT FIXTURES DESIGNATED TO REMAIN ARE TO BE RE-LAMPED.
 - EXISTING ELECTRICAL DEVICE TO BE REMOVED. EXISTING WIRING & CONDUIT TO BE REMOVED TO SOURCE. COORDINATE THAT CIRCUIT(S) FOR ITEMS TO REMAIN ARE LEFT IN OPERATION.
 - EXISTING FIRE ALARM PANEL, ANNUNCIATOR PANEL & DEDICATED OUTLET TO BE RELOCATED. COORDINATE NEW LOCATION WITH NEW POWER & RECEPTACLE PLAN. EXISTING WIRING & CONDUIT TO BE LENGTHENED AS REQUIRED.





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ALTERATIONS TO

**HENDERSONVILLE
CITY HALL**

160 6TH AVE
HENDERSONVILLE, NC
28792

**CITY HALL LEVEL 1
ELECTRICAL LIGHTING
PLAN**

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS

NO:	DATE:	DESCRIPTION:
1	12.22.2022	Bid Coordination

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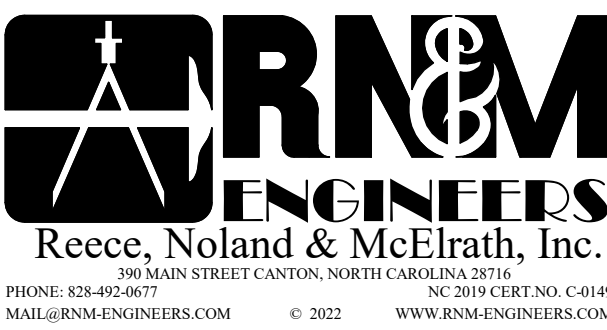
SHEET NUMBER

E-200



KEYED ELECTRICAL CONSTRUCTION NOTES	
APPLY TO THIS SHEET ONLY	
1	NO NEW ELECTRICAL WORK THIS ROOM / AREA. RELAMP EXISTING LIGHT FIXTURES. CLEAN & REPAIR OR REPLACE EXISTING DEVICES FOR PROPER OPERATION.
2	CONNECT NEW LIGHT FIXTURES TO NEW SWITCHES AS SHOWN. CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING THE AREA WITH 3/4" IN 3/4" CONDUIT.
3	CONNECT EXISTING LIGHT FIXTURES TO NEW SWITCHES AS SHOWN. CONNECT TO EXISTING CIRCUIT PREVIOUSLY SERVING THE AREA WITH 3/4" IN 3/4" CONDUIT. (NO LONGER REFERENCED IN DRAWING)
4	CONNECT NEW CORRIDOR LIGHT FIXTURES TO NEW SWITCHES AS SHOWN. CONNECT TO EXISTING CORRIDOR LIGHTING CIRCUIT PREVIOUSLY SERVING THE AREA WITH 3/4" IN 3/4" CONDUIT.
5	CONNECT NEW CORRIDOR EGRESS / NIGHT LIGHT FIXTURES TO EXISTING NL LIGHTING CIRCUIT PREVIOUSLY SERVING THE AREA WITH 3/4" IN 3/4" CONDUIT.
6	SWITCHES & WIRING SHOWN FOR REFERENCE. EXACT LOCATION & PATHWAY ARE BY WALL MANUFACTURER. COORDINATE WITH WALL VENDOR / INSTALLER & OWNER OR ARCHITECT PRIOR TO WORK.

MINOR REVISIONS & COORDINATION, THIS SHEET



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ALTERATIONS TO

HENDERSONVILLE
CITY HALL

160 6TH AVE
HENDERSONVILLE, NC
28792

CITY HALL LEVEL 1
ELECTRICAL POWER &
RECEPTACLE PLAN

DATE: 11.21.22
PROJECT NO: 22029

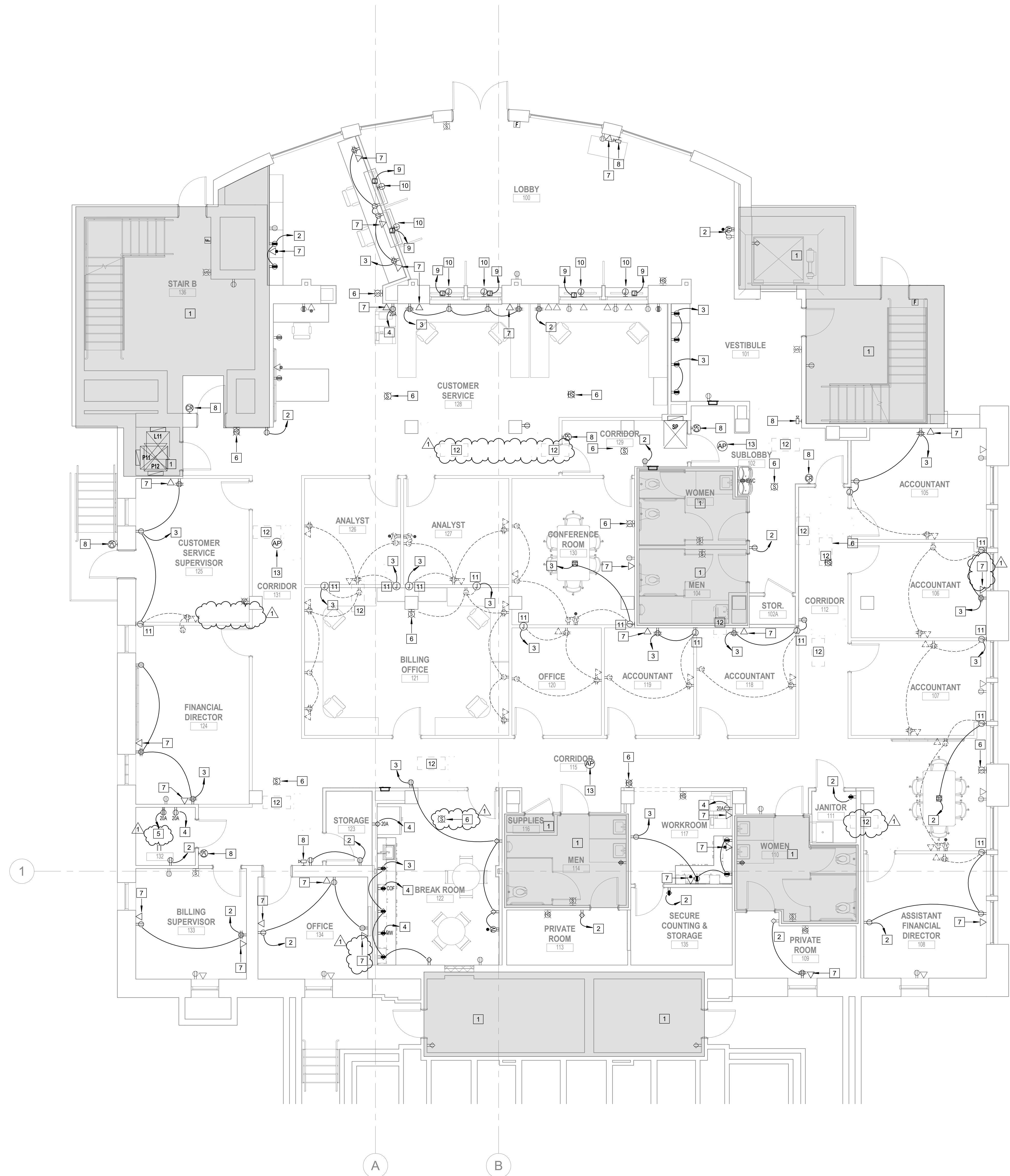
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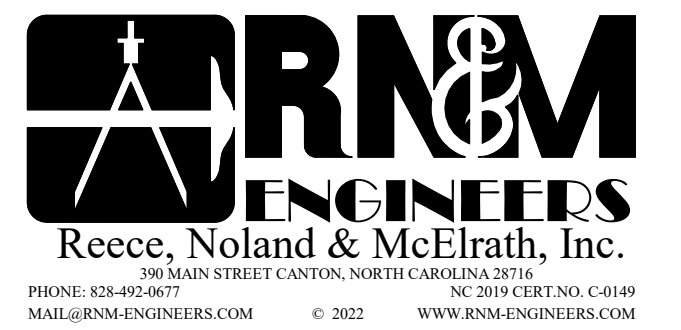
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SHEET NUMBER

E-300

KEYED ELECTRICAL POWER & RECEPTACLE NOTES	
APPLY TO THIS SHEET ONLY	
1	NO NEW POWER / RECEPTACLE WORK THIS ROOM / AREA, EXCEPT WHERE NOTED. SEE ELECTRICAL LIGHTING PLANS FOR POSSIBLE LIGHTING WORK. INSPECT EXISTING ELECTRICAL DEVICES TO REMAIN & CLEAN / REPAIR / REPLACE AS REQUIRED FOR PROPER OPERATION.
2	CONNECT NEW RECEPTACLE(S) WITH 3/4" IN 3/4" CONDUIT TO NEARBY 120V CIRCUIT W/ SUFFICIENT BREAKER CAPACITY.
3	CONNECT NEW RECEPTACLE(S) WITH 3/4" IN 3/4" CONDUIT TO NEARBY EXISTING 120V PANEL CIRCUIT TO NEW 20A BREAKER OR EXISTING 20A BREAKER LEFT VACANT DURING DEMOLITION PHASE. CLOSELY COORDINATE WITH EXISTING CONDITIONS & REVISE IF REQUIRED. UPDATE EXISTING PANEL SCHEDULE.
4	CONNECT NEW DEDICATED RECEPTACLE WITH 3/4" IN 3/4" CONDUIT TO NEARBY EXISTING 120V PANEL CIRCUIT WITH NEW 20A BREAKER OR EXISTING 20A BREAKER LEFT VACANT DURING DEMOLITION PHASE. CLOSELY COORDINATE WITH EXISTING CONDITIONS, REQUIREMENTS OF THE EQUIPMENT & REVISE IF REQUIRED. UPDATE EXISTING PANEL SCHEDULE.
5	CONNECT NEW DEDICATED DATA RACK RECEPTACLE WITH 1/2" IN 3/4" CONDUIT TO NEARBY EXISTING 120V PANEL CIRCUIT WITH NEW 2-POLE 20A BREAKER. COORDINATE EQUIPMENT REQUIREMENTS & REVISE IF REQUIRED. UPDATE EXISTING PANEL SCHEDULE.
6	NEW FIRE ALARM DEVICE TO MATCH EXISTING SYSTEM INSTALLED IN THE BUILDING. CONNECT AS REQUIRED TO EXISTING FIRE ALARM SYSTEM. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
7	NEW DATA OUTLET TO MATCH EXISTING DEVICES INSTALLED IN THE BUILDING. CONNECT AS REQUIRED TO EXISTING NEARBY DATA RACK. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
8	NEW SECURITY SYSTEM DEVICE TO MATCH EXISTING SYSTEM INSTALLED IN THE BUILDING. CONNECT AS REQUIRED TO EXISTING BUILDING SECURITY SYSTEM. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
9	LOCATION OF 2-WAY COUNTERTOP COMMUNICATION (SPEAKERS & MICROPHONES) SYSTEM AT EACH CUSTOMER SERVICE WINDOW. PROVIDE POWER FROM NEARBY EXISTING 120V PANEL WITH SUFFICIENT CAPACITY. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
10	POWER & DATA LOCATION ABOVE EACH CUSTOMER SERVICE WINDOW COUNTER FOR NEW DIGITAL SIGNAGE MONITOR. PROVIDE POWER FROM NEARBY EXISTING 120V PANEL WITH SUFFICIENT CAPACITY. COORDINATE EXACT LOCATION & REQUIREMENTS W/ OWNER PRIOR TO ROUGH-IN.
11	ELECTRICAL CONTRACTOR TO INSTALL POWER TO JUNCTION BOX FOR CONNECTION TO PREFABRICATED WALLS. RECEPTACLE & DATA LOCATIONS IN PREFABRICATED WALLS SHOWN FOR REFERENCE FOR PREFABRICATED WALL INSTALLER & MANUFACTURER. COORDINATE EXACT LOCATIONS & REQUIREMENTS W/ PREFABRICATED WALL INSTALLER & OWNER OR ARCHITECT PRIOR TO WORK.
12	EXISTING VAN BOXES SHOWN FOR REFERENCE. DISCONNECTING EXISTING UNITS, REPLACEMENT & RE-CONNECTION TO NEW UNITS BY MECHANICAL CONTRACTOR.
13	NEW WIRELESS ACCESS POINTS TO BE MOUNTED IN CEILING & CONNECTED TO EXISTING SYSTEM WITHIN THE BUILDING. MATCH EXISTING & CONNECT AS REQUIRED. COORDINATE WITH OWNER OR ARCHITECT PRIOR TO ROUGH-IN.





ALTERATIONS TO

HENDERSONVILLE CITY HALL

160 6TH AVE
HENDERSONVILLE, NC
28792

ELECTRICAL PANEL SCHEDULE

DATE: 11.21.22
PROJECT NO: 22029

REVISIONS
NO: DATE: DESCRIPTION:

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EXISTING PANEL: SP

LOCATION: CORRIDOR
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 100A
MAINS TYPE: LUGS
MAINS RATING: 225 A
NEUTRAL RATING: 100%

CKT	DESCRIPTION	WIRE	COND	BKR	BRANCH: NORMAL			BKR	COND	WIRE	DESCRIPTION	CKT		
					A	B	C							
1	LTG COMM RM	3#12	3/4"	1-20 A	0.79 kVA	0.36kVA		1-20 A	3/4"	3#12	4TH FLOOR TELECOMM	2		
3	LTG COMM RM	3#12	3/4"	1-20 A		0.93kVA	0.36kVA	1-20 A	3/4"	3#12	3RD FLOOR TELECOMM	4		
5	LTG 1ST FLOOR	3#12	3/4"	1-20 A			0.45 kVA	0.36kVA	1-20 A	3/4"	3#12	2ND FLOOR TELECOMM	6	
7	LTG BASEMENT	3#12	3/4"	1-20 A	0.73 kVA	0.36kVA		1-20 A	3/4"	3#12	BASEMENT TELECOMM	8		
9	POLICE RECEP/AGLES	3#12	3/4"	1-20 A		0.54kVA	0.36 kVA	1-20 A	3/4"	3#12	SERVER TELECOMM	10		
11	POLICE RECEP/AGLES	3#12	3/4"	1-20 A			0.72 kVA	0.36kVA	1-20 A	3/4"	3#12	SERVER TELECOMM	12	
13	POLICE RADIO REC	3#12	3/4"	1-20 A	0.18 kVA	0.36kVA		1-20 A	3/4"	3#12	COMM RM RECEP/	14		
15	COV/RADIO REC	3#12	3/4"	1-20 A		0.36 kVA	0.36 kVA	1-20 A	3/4"	3#12	COMM RM RECEP/	16		
17	SPARE			1-20 A				1-20 A	3/4"	3#12	COMM RM RECEP/	18		
19	SPARE			1-20 A	kVA	0.72kVA		kVA	0.54kVA	1-20 A	3/4"	3#12	COMM RM RECEP/	20
21	SPARE			1-20 A			kVA	0.54 kVA	1-20 A	3/4"	3#12	COMM RM RECEP/	22	
23	SPARE			1-20 A				kVA	0.54kVA	1-20 A	3/4"	3#12	COMM RM RECEP/	24
25	SPACE ONLY			S.O.						1-20 A	3/4"	3#12	COMM RM RECEP/	26
27	SPACE ONLY			S.O.	kVA	0.72kVA		kVA	0.72kVA	1-20 A	3/4"	3#12	COMM RM RECEP/	28
29	SPACE ONLY			S.O.						1-20 A	3/4"	3#12	COMM RM RECEP/	30
31	SPACE ONLY			S.O.	kVA	0.72kVA		kVA	0.54kVA	1-20 A	3/4"	3#12	COMM RM RECEP/	32
33	SPACE ONLY			S.O.						1-20 A	3/4"	3#12	COMM RM RECEP/	34
35	SPARE			1-20 A				4.59 kVA	0.54kVA	1-20 A	3/4"	3#12	COMM RM RECEP/	36
37	ACC-1	3#6 1#10"	3/4"	2-40 A	4.59 kVA	1.50kVA		1-20 A	3/4"	3#12	COMM RM KITCHEN RECEP/	38		
39	SPARE			1-20 A						1-20 A	3/4"	3#12	COMM RM KITCHEN RECEP/	40
41	ACC-1	4#12	3/4"	2-25 A		1.33kVA	1.50kVA	1.33kVA	0.18kVA	1-20 A	3/4"	3#12	COMM RM BATH RECEP/	42
					EXISTING LOAD									
					ADDED LOAD									
					11.05 kVA			7.36 kVA			6.64 kVA			
					kVA			kVA			kVA			

LEGEND: * = INCLUDES GROUND WIRE; ** = GFCI BREAKER; *** = LOCKING HANDLE; **** = SHUNT TRIP BREAKER

NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO ALL SPARES TO BE 1P-20

REUSE EXISTING BREAKERS AS PRACTICAL, ADD OR REPLACE AS REQUIRED TO PROVIDE INDICATED CIRCUIT PROTECTION. MATCH EXISTING PANELBOARD CHARACTERISTICS, INCLUDING TYPE, MANUFACTURER AND KAIC RATINGS. UPDATE PANEL SCHEDULE. PROVIDE HACR CIRCUIT BREAKERS FOR RTUS.

EXISTING PANEL: L11

LOCATION: ELECTRM
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 100A
MAINS TYPE: LUGS
MAINS RATING: 100 A
NEUTRAL RATING: 100%

CKT	DESCRIPTION	WIRE	COND	BKR	BRANCH: NORMAL			BKR	COND	WIRE	DESCRIPTION	CKT			
					A	B	C								
1	LTG 2ND FLOOR	3#12	3/4"	1-20 A		0.31 kVA	1.33kVA		1-20 A	3/4"	3#12	LTG 1ST FLOOR	2		
3	LTG 2ND FLOOR	3#12	3/4"	1-20 A		0.47kVA	1.35kVA		1-20 A	3/4"	3#12	LTG 1ST FLOOR	4		
5	LTG 2ND FLOOR	3#12	3/4"	1-20 A			0.24kVA	1.09kVA	1-20 A	3/4"	3#12	LTG 1ST FLOOR	6		
7	LTG 2ND FLOOR	3#12	3/4"	1-20 A	0.86 kVA	1.21kVA			1-20 A	3/4"	3#12	LTG 1ST FLOOR	8		
9	LTG 2ND FLOOR	3#12	3/4"	1-20 A		0.74kVA	0.64kVA		1-20 A	3/4"	3#12	LTG 1ST FLOOR	10		
11	LTG 2ND FLOOR	3#12	3/4"	1-20 A			0.69 kVA	1.11kVA	1-20 A	3/4"	3#12	LTG 1ST FLOOR	12		
13	LTG 2ND FLOOR	3#12	3/4"	1-20 A	0.67 kVA	kVA			1-20 A	3/4"	3#12	SPARE	14		
15	LTG 2ND FLOOR	3#12	3/4"	1-20 A		1.34kVA	kVA		1-20 A	3/4"	3#12	SPARE	16		
17	LTG 2ND FLOOR	3#12	3/4"	1-20 A			1.20 kVA	kVA	1-20 A	3/4"	3#12	SPARE	18		
19	SPACE ONLY			S.O.	kVA	kVA			1-20 A	3/4"	3#12	SPARE	20		
21	SPACE ONLY			S.O.			kVA	kVA	1-20 A	3/4"	3#12	SPARE	22		
23	SPACE ONLY			S.O.				kVA	kVA	1-20 A	3/4"	3#12	SPARE	24	
25	SPACE ONLY			S.O.	kVA	kVA		kVA	kVA	1-20 A	3/4"	3#12	SPACE ONLY	26	
27	SPACE ONLY			S.O.						1-20 A	3/4"	3#12	SPACE ONLY	28	
29	SPACE ONLY			S.O.					kVA	kVA	1-20 A	3/4"	3#12	SPACE ONLY	30
31	SPACE ONLY			S.O.	kVA	kVA		kVA	kVA	1-20 A	3/4"	3#12	SPACE ONLY	32	
33	SPACE ONLY			S.O.						1-20 A	3/4"	3#12	SPACE ONLY	34	
35	SPACE ONLY			S.O.					kVA	kVA	1-20 A	3/4"	3#12	SPACE ONLY	36
37	SPACE ONLY			S.O.	kVA	kVA		kVA	kVA	1-20 A	3/4"	3#12	SPACE ONLY	38	
39	SPACE ONLY			S.O.						1-20 A	3/4"	3#12	SPACE ONLY	40	
41	SPACE ONLY			S.O.				kVA	kVA	1-20 A	3/4"	3#12	SPACE ONLY	42	
					EXISTING LOAD										
					ADDED LOAD										
					4.38 kVA			4.54 kVA			4.33 kVA				
					kVA			kVA			kVA				

LEGEND: * = INCLUDES GROUND WIRE; ** = GFCI BREAKER; *** = LOCKING HANDLE; **** = SHUNT TRIP BREAKER

NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO ALL SPARES TO BE 1P-20

REUSE EXISTING BREAKERS AS PRACTICAL, ADD OR REPLACE AS REQUIRED TO PROVIDE INDICATED CIRCUIT PROTECTION. MATCH EXISTING PANELBOARD CHARACTERISTICS, INCLUDING TYPE, MANUFACTURER AND KAIC RATINGS. UPDATE PANEL SCHEDULE. PROVIDE HACR CIRCUIT BREAKERS FOR RTUS.

EXISTING PANEL: P11

LOCATION: ELECTRM
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 100A
MAINS TYPE: LUGS
MAINS RATING: 225 A
NEUTRAL RATING: 100%

CKT	DESCRIPTION	WIRE	COND	BKR	BRANCH: NORMAL			BKR	COND	WIRE	DESCRIPTION	CKT		
					A	B	C							
1	SPARE			1-20 A	kVA	0.90kVA		1-15 A	3/4"	3#12	VAV-201-202-EP-12	2		
3	SPARE			1-20 A		kVA	0.80kVA		1-15 A	3/4"	3#12	VAV-203-EP-12,14,15	4	
5	SPARE			1-20 A				1-15 A	3/4"	3#12	VAV-204	6		
7	SPARE			1-20 A	kVA	0.90kVA		1-15 A	3/4"	3#12	VAV-205,206, CUH-3	8		
9	SPARE			1-20 A			kVA	0.86 kVA	1-15 A	3/4"	3#12	VAV-207	10	
11	SPARE			1-20 A				1-15 A	3/4"	3#12	VAV-208	12		
13	SPARE			1-20 A	kVA	0.86kVA			1-15 A	3/4"	3#12	VAV-208	14	
15	SPARE			1-20 A					S.O.		SPACE ONLY	16		
17	SPARE			1-20 A					S.O.		SPACE ONLY	18		
19	SPARE			1-20 A	kVA	1.18kVA		kVA	kVA	1-20 A	3/4"	3#12	VAV-101	20
21	SPACE ONLY			S.O.				1-15 A	3/4"	3#12	VAV-102-103	22		
23	SPACE ONLY			S.O.					1-20 A	3/4"	3#12	VAV-104	24	
25	SPACE ONLY			S.O.	kVA	0.63kVA		kVA	1.18kVA	1-20 A	3/4"	3#12	VAV-105-EP-8,7	26
27	SPACE ONLY			S.O.				1-15 A	3/4"	3#12	VAV-106-EP-2,3	28		
29	SPACE ONLY			S.O.					1-20 A	3/4"	3#12	VAV-107-108-EP-8,9,10	30	
31	SPACE ONLY			S.O.	kVA	0.49kVA		kVA	1.09kVA	1-15 A	3/4"	3#12	VAV-109-EP-11	32
33	SPACE ONLY			S.O.				kVA	0.84kVA	1-15 A	3/4"	3#12	VAV-110-111	34
35	SPACE ONLY			S.O.					S.O.		SPACE ONLY	36		
37	SPACE ONLY			S.O.					1-20 A	3/4"	3#12	SPACE ONLY	38	
39	PANEL OR	4#6 1#10"	1"	3P-60	1.73 kVA	kVA		1.26kVA	kVA	1-20 A	3/4"	3#12	SPACE ONLY	40
41	SPACE ONLY			S.O.				1.82kVA	kVA	1-20 A	3/4"	3#12	SPACE ONLY	42
					FEED-THROUGH LUGS TO PANEL 'P12'									
					EXISTING LOAD									
					ADDED LOAD									
					6.64 kVA			7.36 kVA			8.58 kVA			
					kVA			kVA			kVA			

LEGEND: * = INCLUDES GROUND WIRE; ** = GFCI BREAKER; *** = LOCKING HANDLE; **** = SHUNT TRIP BREAKER

NOTES: UNO ALL CONDUIT TO BE 3/4" EMT; UNO ALL SPARES TO BE 1P-20

REUSE EXISTING BREAKERS AS PRACTICAL, ADD OR REPLACE AS REQUIRED TO PROVIDE INDICATED CIRCUIT PROTECTION. MATCH EXISTING PANELBOARD CHARACTERISTICS, INCLUDING TYPE, MANUFACTURER AND KAIC RATINGS. UPDATE PANEL SCHEDULE. PROVIDE HACR CIRCUIT BREAKERS FOR RTUS.

EXISTING PANEL: P12

LOCATION: ELECTRM
SUPPLY FROM: P11
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 120/208 Wye
PHASES: 3
WIRES: 4

A.I.C. RATING: 100A
MAINS TYPE: LUGS
MAINS RATING: 225 A
NEUTRAL RATING: 100%

CKT	DESCRIPTION	WIRE	COND	BKR	BRANCH: NORMAL			BKR	COND	WIRE	DESCRIPTION	CKT		
					A	B	C							
1	RECEPTAGLES	3#12	3/4"	1-20 A	0.16 kVA	1.26kVA		1-20 A	3/4"	3#12	RECEPTAGLES	2		
3	RECEPTAGLES	3#12	3/4"	1-20 A		0.70kVA	0.36kVA		1-20 A	3/4"	3#12	RECEPTAGLES	4	
5	RECEPTAGLES	3#12	3/4"	1-20 A			kVA	0.18kVA	1-20 A	3/4"	3#12	RECEPTAGLES	6	
7	RECEPTAGLES	3#12	3/4"	1-20 A	kVA	0.72kVA			1-20 A	3/4"	3#12	RECEPTAGLES	8	
9	RECEPTAGLES	3#12	3/4"	1-20 A			kVA	0.54 kVA	1-20 A	3/4"	3#12	RECEPTAGLES	10	
11	TELECOMM RECEPTAGLES	3#12	3/4"	1-20 A				0.36 kVA	1.08kVA	1-20 A	3/4"	3#12	RECEPTAGLES	12
13	RECEPTAGLES	3#12	3/4"	1-20 A	kVA	1.26kVA			1-20 A	3/4"	3#12	RECEPTAGLES	14	
15	KITCHEN RECEPTAGLES	3#12	3/4"	1-20 A		1.50kVA	1.08kVA		1-20 A	3/4"	3#12	RECEPTAGLES	16	
17	RECEPTAGLES	3#12	3/4"	1-20 A				0.80 kVA	0.72kVA	1-20 A	3/4"	3#12	RECEPTAGLES	18
19	RECEPTAGLES	3#12	3/4"	1-20 A	0.18 kVA	0.18k								