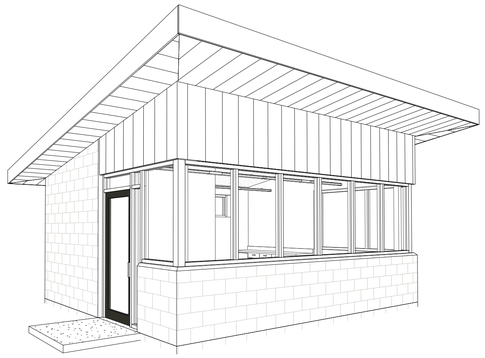
ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVIENENCE CENTER



575 ASSEMBLY COURT
FAYETTEVILLE NC, 28306

LEGEND

CONCRETE
STONE FILL
CONCRETE MASONRY
BRICK
STEEL
ALUMINUM
PLYWOOD
FINISH WOOD
GYPSUM WALLBOARD
EARTH
BATT. INSULATION
RIGID INSULATION
BLOCKING

NORTH ARROW
CENTERLINE
COLUMN CENTERLINE
ELEVATION LEVEL (10'-0" F.F.E.)
SPOT ELEVATION (100.00)
REVISION AREA
REVISION NUMBER (1)
CEILING ELEVATION (10'-0")

ELEVATION REFERENCE (1 / A101 / 3)
SHEET NO.
DRAWING NO.
ELEVATION REFERENCE (SIM / A101)
DRAWING NO.
SHEET NO.
SECTION REFERENCE (1 / A101)
SIM
DRAWING NO.
SHEET NO.
DETAIL REFERENCE (1 / A101)
SIM
DRAWING NO.
SHEET NO.

SPACE TAG (Name / 101 / 150 SF)
ROOM NAME
ROOM NO.
ROOM INFO.
ROOM TAG (Name / 101)
ROOM NAME
ROOM NO.
DOOR TAG (101)
WINDOW TAG (01)
WALL TAG (1t)

ABBREVIATIONS

A.B.	ANCHOR BOLT	E.	EAST	INT.	INTERIOR	REQD.	REQUIRED
ACOUST.	ACOUSTICAL	EA	EACH	J.B.	JOIST BEARING	RESIL.	RESILIENT
ACT	ACOUSTICAL CEILING TILE	E.B.	EXPANSION BOLT	JT.	JOINT	REV.	REVISION
A.F.F.	ABOVE FINISH FLOOR	E.I.F.S.	EXTERIOR INSULATION FINISH SYSTEM	LAM.	LAMINATED	RM	ROOM
ALUM.	ALUMINUM	E.J.	EXPANSION JOINT	LF	LINEAR FEET	R.O.	ROUGH OPENING
APPROX.	APPROXIMATELY	EL.	ELEVATION (FLOOR)	LG	LONG, LARGE	RQMTS.	REQUIREMENTS
ARCH.	ARCHITECT, ARCHITECTURAL	ELEV.	ELEVATION	LLH	LONG LEG HORIZONTAL	RTU	ROOF TOP UNIT
BD.	BOARD	ELEC.	ELECTRICAL	LLV	LONG LEG VERTICAL	R.W.L.	RAIN WATER LEADER
BLDNG.	BUILDING	EQ.	EQUAL	L.P.	LOW POINT	SCHED.	SCHEDULE
BLK.	BLOCK	EQUIP.	EQUIPMENT	MAS.	MASONRY	S.F.	SQUARE FEET
BM.	BEAM	E/W	EACH WAY	MATL.	MATERIAL	SHT.	SHEET
B.O.S.	BOTTOM OF STEEL	EWC	ELECTRIC WATER COOLER	MAX.	MAXIMUM	SIM.	SIMILAR
BRG.	BEARING	EXIST.	EXISTING	MECH.	MECHANICAL	S.M.S.	SHEET METAL SCREW
BS	BOTH SIDES	EXP.	EXPOSED, EXPANSION	MED.	MEDIUM	SPECS	SPECIFICATIONS
BTM.	BOTTOM	EXT.	EXTERIOR	MFR.	MANUFACTURER	SQ.	SQUARE
BUR	BUILT-UP ROOF	F.D.	FLOOR DRAIN	MIN.	MINIMUM	S.S.	STAINLESS STEEL
C.I.	CAST IRON	F.E.	FIRE EXTINGUISHER	MISC.	MISCELLANEOUS	STD.	STANDARD
C.J.	CONTROL JOINT	F.F.E.	FINISH FLOOR ELEVATION	M.O.	MASONRY OPENING	STL.	STEEL
C.T.	CERAMIC TILE	F/O	FACE OF	M.R.	MOISTURE-RESISTANT	STOR.	STORAGE
CAB.	CABINET	FIN.	FINISH	M.R.G.B.	MOISTURE-RESISTANT GYPSUM BOARD	STRUCT.	STRUCTURAL
CEM.	CEMENTITIOUS	FL./FLR.	FLOOR	MTD.	MOUNTED	SUSP.	SUSPENDED
CG	CORNER GUARD	FLUOR.	FLUORESCENT	MTL.	METAL	T	TREAD
CLR.	CLEAR	FDN.	FOUNDATION	N	NORTH	T/B	TOP & BOTTOM
CLNG.	CEILING	F.S.	FLOOR SINK	N.I.C.	NOT IN CONTRACT	TEL.	TELEPHONE
CMU	CONCRETE MASONRY UNIT	FTG.	FOOTING	NO., #	NUMBER	T/O	TOP OF
CO	CLEAN OUT	G.C.	GENERAL CONTRACTOR	NTS	NOT TO SCALE	T.O.M.	TOP OF MASONRY
COL	COLUMN	GA.	GAUGE	O/A	OVERALL	T.O.S.	TOP OF STEEL
CONC.	CONCRETE	GALV.	GALVANIZED	O.F.D.	OVERFLOW DRAIN	TH	THICK(NESS)
CONST.	CONSTRUCTION	GEN.	GENERAL	O/H	OVERHEAD	TYP.	TYPICAL
CONT.	CONTINUOUS	GL.	GLASS/GLAZING	O/O	OUT TO OUT	U.L.	UNDERWRITERS LABORATORY
CONTR.	CONTRACTOR	GWB	GYPSUM WALLBOARD	O.C.	ON CENTER	U.O.N.	UNLESS OTHERWISE NOTED
CPT.	CARPET	GYP.	GYPSUM	O.D.	OUTSIDE DIAMETER	V	VOLT
CR	CARTRAIL/CHAIRRAIL	H	HIGH	OPNG.	OPENING	VCT	VINYL COMPOSITION TILE
CSK	COUNTERSUNK	HB	HOSE BIBB	OPP.	OPPOSITE	VERT.	VERTICAL
D	DEPTH	HC	HANDICAPPED	P	PAINT	W	WEST, WIDTH, WASTE, WIRE
DBL.	DOUBLE	HDW	HARDWARE	PC.	PIECE	W/	WITH
DEMO	DEMOLITION	H.M.	HOLLOW METAL	PL	PLATE	W.C.	WATER CLOSET
DET.	DETAIL	HORIZ.	HORIZONTAL	PLAS.	PLASTER, PLASTIC	WD.	WOOD
DIA.	DIAMETER	H.P.	HIGH POINT	PLYWD.	PLYWOOD	WT	WEIGHT
DN.	DOWN	HT.	HEIGHT	PTD.	PAINTED	WH, W/H	WATER HEATER
DIM.	DIMENSION	HVAC	HEATING, VENTILATION & AIR CONDITIONING	QUAN.	QUANTITY	W/I	WITHIN
D.O.	DOOR OPENING	I.D.	INTERIOR DIAMETER	Q.T.	QUARRY TILE	W/O	WITHOUT
D.S.	DOOR SWING	INCL.	INCLUDE	R	RADIUS, RISER	WWF	WELDED WIRE FABRIC
DWG.	DRAWING	INSUL.	INSULATION	R.D.	ROOF DRAIN	X	EXISTING TO REMAIN
				REINF.	REINFORCING	XTR	EXISTING TO BE REMOVED

GENERAL NOTES

1. GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND IN THE PLANS, DETAILS AND/OR SPECIFICATIONS PRIOR TO PROCEEDING WITH CONSTRUCTION.

2. CONTRACTOR SHALL BEAR RESPONSIBILITY FOR VERIFYING COMPLIANCE OF SHOP DRAWINGS WITH THE CONTRACT DOCUMENTS PRIOR TO ORDERING MATERIALS OR BEGINNING FABRICATION.

3. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK INCLUDED IN THE CONTRACT DOCUMENTS. ALL CORRESPONDENCE FROM THE SUBCONTRACTORS SHALL BE THROUGH THE GENERAL CONTRACTOR.

4. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES AND STATUTES, WHETHER SPECIFICALLY REFERENCED BY THE PLANS OR NOT.

5. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND SECURING REQUIRED INSPECTIONS.

6. BUILDING SIGNAGE IS TO BE PROVIDED UNDER SEPARATE CONTRACT BY OTHERS.

7. GENERAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL SIGNAGE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT (A.D.A.), ICC/ANSI A117.1-2009, AND THE LATEST EDITION OF THE NORTH CAROLINA BUILDING CODE.

8. ALL MATERIALS ARE TO BE NEW UNLESS OTHERWISE NOTED.

9. ANY DEFECTIVE WORK AND ANY DAMAGE RESULTING THEREFROM SHALL BE REPAIRED AT NO COST TO THE OWNER.

10. ALTHOUGH THESE DRAWINGS ARE DRAWN TO SCALE, NO DIMENSIONS ARE TO BE DETERMINED BY SCALING THE DRAWINGS. ANY QUESTIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

11. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND LEGALLY DISPOSING OF ALL REFUSE FROM THE PROJECT.

12. NO SMOKING WILL BE PERMITTED INSIDE THE PROJECT AREA.

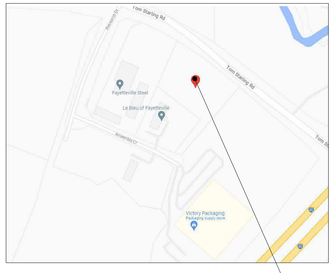
13. CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED TO SUPPORT ALL CONTRACTOR-SUPPLIED AND OWNER-SUPPLIED WALL-HUNG EQUIPMENT OR CASEWORK. CONFIRM LOCATIONS WITH OWNER PRIOR TO INSTALLATION.

14. THE ADJACENT SITE MAY BE OCCUPIED BY THE PUBLIC DURING CONSTRUCTION. THE G.C. SHALL TAKE ALL PRECAUTIONS NECESSARY TO SAFEGUARD THE HEALTH AND WELFARE OF THE PUBLIC. ALL REQUIRED MEANS OF EGRESS SHALL BE KEPT CLEAR AND ACCESSIBLE AT ALL TIMES.

15. THE GENERAL CONTRACTOR SHALL THOROUGHLY REVIEW MANUFACTURER'S LITERATURE AND SHOP DRAWINGS FOR ALL FIXTURES AND/OR EQUIPMENT (WHETHER PROVIDED BY THE OWNER, TENANT OR CONTRACTOR) PRIOR TO ROUGH-IN FOR UTILITIES. CONFIRM ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.

16. LABEL ALL FIRE-RATED WALLS ABOVE CEILING AS REQUIRED BY NC BUILDING CODE 2018, SECTION 703.7. SUGGESTED WORDING: "__- HR RATED FIRE AND/OR SMOKE BARRIER. PROTECT ALL OPENINGS."

17. G.C. SHALL PROVIDE KNOX BOX, IF REQUIRED BY LOCAL JURISDICTION.



VICINITY MAP

SEPARATE CONTRACTS:

INCLUDING, BUT NOT LIMITED TO:

SECURITY AND TELECOMMUNICATIONS : THE OWNER SHALL CONTRACT WITH SEPARATE FIRMS TO PROVIDE SECURITY AND TELECOMMUNICATIONS EQUIPMENT AND INSTALLATION. GENERAL CONTRACTOR SHALL PROVIDE BOXES AND CONDUIT AS INDICATED IN THESE DRAWINGS.

ARCHITECT:
GONTRAM ARCHITECTURE, INC
5100 UNICON DR SUITE 103
WAKE FOREST NC, 27587
P:(919) 876-5331
eddie@gontramarchitecture.com

STRUCTURAL ENGNEER:

ROSS LINDEN ENGINEERS, PC
709 W. JONES ST.
RALEIGH NC, 27603
P:(919) 832-5680
brian@rosslinden.com

PLUMBING,MECHANICAL AND ELECTRICAL ENGINEERS:

ATLANTEC ENGINEERS, P.A.
3221 BLUE RIDGE RD., SUITE 113
RALEIGH, NC 27612
P:(919) 571-1111
david@atlantecengineers.com

CIVIL ENGINEERING:

SMITH GARDNER, INC
14 N. BOYLAN AVE
RALEIGH NC, 2603
P:(919) 828-0577

INDEX OF DRAWINGS

Sheet #	DESCRIPTION	SHEET DATE	ISSUED FOR CONSTRUCTION	LATEST REVISION
GENERAL				
G101	COVER SHEET	03/13/2025	MARCH 13,2025	
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ARCHITECTURAL				
A101	FLOOR PLAN	11/06/2023	MARCH 13,2025	
A201	ROOF & REFLECTED CEILING PLAN	11/06/2023	MARCH 13,2025	
A301	EXTERIOR ELEVATIONS	11/06/2023	MARCH 13,2025	
A401	WINDOW & DOOR SCHEDULE	11/06/2023	MARCH 13,2025	
A501	INTERIOR ELEVATIONS	11/06/2023	MARCH 13,2025	
A601	BUILDING SECTIONS	11/06/2023	MARCH 13,2025	
A701	WALL SECTIONS	11/06/2023	MARCH 13,2025	
ARCHITECTURAL SPECIFICATIONS				
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AS-002	SPECIFICATIONS	11/06/2023	MARCH 13,2025	
STRUCTURAL				
S101	FOUNDATION AND FRAMING PLANS	11/02/2023	MARCH 13,2025	
S201	SECTIONS AND DETAILS	11/02/2023	MARCH 13,2025	
PLUMBING				
P101	PLUMBING PLAN, SCHEDULES, DETAILS ,NOTES	09/07/2023	MARCH 13,2025	
MECHANICAL				
M-01	MECHANICAL PLAN, SCHEDULES, DETAILS ,NOTES	09/07/2023	MARCH 13,2025	
ELECTRICAL				
E1.1	ELECTRCIAL PLANS , POWER RISER PANEL, SCHEDULE	03/13/2025	MARCH 13,2025	
E1.2	SITE POWER PLAN	03/12/2025	MARCH 13,2025	
E2.1	SYMBOL LEGEND, GENERAL NOTES, LDETAILS	03/12/2025	MARCH 13,2025	

GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331

eddie@gontramarchitecture.com
www.gontramarchitecture.com

EDMUND J. GONTRAM III REGISTERED ARCHITECT NORTH CAROLINA RALEIGH, NC. 9.13.25

GONTRAM ARCHITECTURE, INC. REGISTERED PROFESSIONAL CORPORATION CERT. NO. 51355 NORTH CAROLINA RALEIGH, N.C.

ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE, NC 28306

PLOT DATE: 03/13/2025
ISSUED: MARCH 13,2025
FOR CONSTRUCTION

Rev.	Date	Description

DRAWN BY: PJA
APPROVED: EJG
PROJECT NO.: 22003
RECORD:
CONTENTS: COVER SHEET

SHEET: G101

BUILDING CODE SUMMARY

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(EXCEPT FOR 1 AND 2- FAMILY DWELLINGS AND TOWNHOUSES)

NAME OF PROJECT: CUMBERLAND LANDFILL-ASSEMBLY CT.
ADDRESS: 575 ASSEMBLY CT. FAYETTEVILLE, NC ZIP CODE: 28306
PROPOSED USE: ATTENDANT BUILDING
OWNER OR AUTHORIZED AGENT: AMANDA BADER PHONE: (910) 321-6920 E-MAIL: abader@co.cumberland.nc.us
OWNED BY: ■ CITY/COUNTY ☐ PRIVATE ☐ STATE
CODE ENFORCEMENT JURISDICTION: ■ CITY FAYETTEVILLE ☐ COUNTY_____ ☐ STATE

CONTACT: EDMUND J. GONTRAM III, AIA GONTRAM ARCHITECTURE INC.

DESIGNER:	FIRM	NAME	LICENSE#	TELEPHONE #	E-MAIL
ARCHITECT:	GONTRAM ARCHITECTURE INC	EDMUND J. GONTRAM III, AIA	7177	(919) 876-5331	eddie@gontramarchitecture.com
CIVIL:	SMITH GARDNER	JESS C. U.	54367	(919) 828-0577	jesse@smithgardnerinc.com
ELECTRICAL:	ATLANTEC ENGINEERS	DAVID J. WHITNEY	17382	(919) 851-1111	david@atlanteceengineers.com
FIRE ALARM:	(NOT APPLICABLE)	(NOT APPLICABLE)			
PLUMBING:	ATLANTEC ENGINEERS	BRADLEY W. FELTS	25036	(919) 851-1111	brad@atlanteceengineers.com
MECHANICAL:	ATLANTEC ENGINEERS	BRADLEY W. FELTS	25036	(919) 851-1111	brad@atlanteceengineers.com
SPRK-STNDP:	(NOT APPLICABLE)	(NOT APPLICABLE)			
STRUCTURAL:	ROSS LINDEN ENGINEERS	BRIAN M ROSS, PE	25539	(919) 832-5680	brian@rosslinden.com
RET. W.AL>5' H:	(NOT APPLICABLE)	(NOT APPLICABLE)			
OTHER:	(NOT APPLICABLE)	(NOT APPLICABLE)			

2018 NC BUILDING CODE: ■ NEW BUILDING ☐ ADDITION ☐ RENOVATION ☐ 1st TIME INTERIOR COMPLETION ☐ SHELL/CORE ☐ PHASED CONSTRUCTION - SHELL/CORE
2018 NC EXISTING BUILDING CODE: ☐ PRESCRIPTIVE ☐ REPAIR ☐ CHAPTER 14 ☐ ALTERATION -LEVEL _____ ☐ HISTORIC PROPERTY ☐ CHANGE OF USE

CONSTRUCTED: (date)_____ CURRENT OCCUPANCY(S) (Ch.3) B
RENOVATED: (date)_____ PROPOSED OCCUPANCY(S) (Ch.3) B
OCCUPANCY CATEGORY (Table 1604.5): Current: II Proposed: II

SCOPE OF WORK:

NEW CONSTRUCTION OF 326 SF ATTENDANT BUILDING FOR LANDFILL CONVENIENCE CENTER

BASIC BUILDING DATA

CONSTRUCTION TYPE: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A ☐ I-B ■ II-B ☐ III-B ☐ V-B

SPRINKLERS: ■ NO ☐ PARTIAL ☐ YES ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
STANDPIPES: ■ NO ☐ YES CLASS: ☐ I ☐ II ☐ III ☐ WET ☐ DRY
FIRE DISTRICT: ■ NO ☐ YES FLOOD HAZARD AREA: ■ NO ☐ YES
SPECIAL INSPECTIONS REQUIRED: NO

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUB-TOTAL
4TH FLOOR			
3RD FLOOR			
2ND FLOOR			
1ST FLOOR		326	
BASEMENT			
TOTAL		326	

PROJECT AREA: 326 SF

ALLOWABLE AREA

PRIMARY OCCUPANCY CLASSIFICATION(S):

ASSEMBLY: ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
BUSINESS ■
EDUCATIONAL ☐
FACTORY: ☐ F-1 Moderate ☐ F-2 Low
HIGH-HAZARD: ☐ H-1 (Detonate) ☐ H-2 (Deflagrate) ☐ H-3 (Combust) ☐ H-4 (Health) ☐ H-5 (HPM)
INSTITUTIONAL: ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
MERCANTILE ☐
RESIDENTIAL: ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
STORAGE: ☐ S-1 Moderate ☐ S-2 Low ☐ High-Piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
UTILITY AND MISCELLANEOUS ☐

ACCESSORY OCCUPANCY CLASSIFICATION(S): _____
INCIDENTAL USES (TABLE 509): _____
SPECIAL USES (CHAPTER 4- List code sections): _____
SPECIAL PROVISIONS (CHAPTER 5 -List code sections): _____
MIXED OCCUPANCY: ■ NO ☐ YES SEPARATION _____ Hr.
EXCEPTION _____

☐ NON-SEPARATED MIXED OCCUPANCY (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 MIXED OCCUPANCY (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.

$$\frac{\text{ACTUAL AREA OF OCCUPANCY A}}{\text{ALLOWABLE AREA OF OCCUPANCY A}} + \frac{\text{ACTUAL AREA OF OCCUPANCY B}}{\text{ALLOWABLE AREA OF OCCUPANCY B}} \leq 1$$

_____ + _____ ≤ 1

_____ + _____ ≤ 1

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE FLOOR AREA OR UNLIMITED[2,3]
1	BUSINESS (B)	326	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* = 100[F/P – 0.25] x W/30 = _____ (%)
[2] Unlimited area applicable under conditions of Section 507.
[3] Maximum Building Area = total number of stories in the building x D (maximum3 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 unsprinklered area value in Table 506.2

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE[1]
BUILDING HEIGHT IN FEET (TABLE 504.3)[2]	H= 40	17'-9"	
BUILDING HEIGHT IN STORIES (TABLE 504.4)[3]	S= 2	1	

[1] Provide code reference if tht"Shown 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)	RATING 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, AND TRUSSES		0					
BEARING WALLS							
EXTERIOR							
NORTH	> 30 FT	0					
EAST	> 30 FT	0					
WEST	> 30 FT	0					
SOUTH	> 30 FT	0					
INTERIOR		N/A					
NONBEARING WALLS AND PARTITIONS EXTERIOR WALLS							
NORTH		0					
EAST		0					
WEST		0					
SOUTH		0					
INTERIOR WALLS AND PARTITIONS		0					
FLOOR CONSTRUCTION- INCLUDING SUPPORTING BEAMS AND JOISTS.		0					
FLOOR CEILING ASSEMBLY		N/A					
COLUMNS SUPPORTING FLOORS		N/A					
ROOF CONSTRUCTION- INCLUDING: SUPPORTING BEAMS AND JOISTS		0					
ROOF CEILING ASSEMBLY		0					
COLUMNS SUPPORTING ROOF		0					
SHAFT ENCLOSURES - EXIT		N/A					
SHAFTS ENCLOSURES- OTHER		N/A					
CORRIDOR SEPARATION		N/A					
OCCUPANCY/FIRE BARRIER SEPARATION		N/A					
PARTY/FIREWALL SEPARATION		N/A					
SMOKE BARRIER SEPARATION		N/A					
SMOKE PARTITION		N/A					
TENANT/DWELLING UNIT/ SLEEPING UNIT SEPARATION		N/A					
INCIDENTAL USE SEPARATION		N/A					

* INDICATE SECTION NUMBER PERMITTING REDUCTION.

PERCENTAGE OF WALL OPENINGS CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
ALL EXT. WALLS ARE > 30 FT	UP, NS	NO LIMIT	

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: ☐ NO ■ YES
EXIT SIGNS: ☐ NO ■ YES
FIRE ALARM: ■ NO ☐ YES
SMOKE DETECTION SYSTEMS: ■ NO ☐ YES ☐ PARTIAL_____
CARBON MONOXIDE DETECTION: ■ NO ☐ YES

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET #: G102

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
■ Occupancy Use for each area as it relates to occupant load calculation. (Table 1004.1.2)
■ Occupant loads for each area
■ Exit sign locations (1013)
■ Exit access travel distances (1017)
☐ Common path of travel distances (1006.2.1 & 1006.3.2(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.
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.8)
☐ 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.

ACCESSIBLE DWELLING UNITS
(SECTION 1107) (NOT APPLICABLE)

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

ACCESSIBILITY PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED		TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	
		3		1	1
TOTAL		3		1	1

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
	EXISTING										
	NEW			1				1			
	REQUIRED			1 *				1 *		0 **	0 **

*NOTE: PER NCPC 403.2 EXCEPTION 2, SEPARATE FACILITIES SHALL NOT BE REQUIRED IN BUSINESS OCCUPANCIES WITH A TOTAL OCCUPANT LOAD, INCLUDING EMPLOYEES AND CUSTOMERS, OF 30 OR FEWER.

**NOTE: PER NCPC 410.2, DRINKING FOUNTAINS SHALL NOT BE REQUIRED FOR AN OCCUPANT LOAD OF 30 OR FEWER

SPECIAL APPROVALS

SPECIAL APPROVAL: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc. describe below)
(NOT APPLICABLE)

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design versus the 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 ■ ENERGY CODE - PRESCRIPTIVE ☐ OTHER
☐ ASHRAE 90.1 - PERFORMANCE ☐ ASHRAE 90.1 - PRESCRIPTIVE
If "other" specify source here _____

THERMAL ENVELOPE (Prescriptive method only)

ROOF/CEILING ASSEMBLY (each assembly)
DESCRIPTION OF ASSEMBLY: MEMBRANE ROOF OVER RIGID INSULATION OVER SHEATHING OVER METAL JOISTS FILLED WITH BATT INSULATION
U-VALUE OF TOTAL ASSEMBLY: U = 0.028
R-VALUE OF INSULATION: BATT INSULATION = R-25 RIGID INSULATION = R-10 ci
SKYLIGHTS IN EACH ASSEMBLY:
U-VALUE OF SKYLIGHT
TOTAL SQUARE FOOTAGE OF SKYLIGHTS IN EACH ASSEMBLY:

EXTERIOR WALLS (each assembly): CMU VENEER OR METAL PANEL, AIRSPACE, RIGID INSULATION, SHEATHING, METAL STUDS, BATT INSULATION, GYPSUM WALLBOARD
U-VALUE OF TOTAL ASSEMBLY: U = 0.033
R-VALUE OF INSULATION: BATT INSULATION = R-20 RIGID INSULATION = R-7.5 ci
OPENINGS (windows or doors with glazing)
U-VALUE OF ASSEMBLY: U-VALUE = 0.45
SOLAR HEAT GAIN COEFFICIENT: SHGC = .33
PROJECTION FACTOR: PF = 0.20
DOOR R-VALUES: U-VALUE=.77

WALLS BELOW GRADE (each assembly)
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION

FLOORS OVER UNCONDITIONED SPACE (each assembly)
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION

FLOORS SLAB ON GRADE (each assembly)
DESCRIPTION OF ASSEMBLY: 4" THICK, 3000 PSI, UNHEATED
U-VALUE OF TOTAL ASSEMBLY
R-VALUE OF INSULATION: R-17.5
HORIZONTAL/VERTICAL REQUIREMENT
SLAB HEATED: UNHEATED

STRUCTURAL DESIGN

DESIGN LOADS:
IMPORTANCE FACTORS: SNOW (Is) _____ SEISMIC (I) _____
LIVE LOADS: ROOF 20 PSF; MEZZANINE n/a PSF; FLOOR 100 PSF
GROUND SNOW LOAD: 10 PSF
WIND LOAD: BASIC WIND SPEED 122 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_s 0.234 %g S_1 0.100 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ■ D ☐ E ☐ F
Data Source: ☐ Field Test ■ Presumptive ☐ Historical Data
Basic Structural System: ☐ Bearing Wall ☐ Building Frame ☐ Moment Frame ☐ Dual w/Special Moment Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Inverted Pendulum
Analysis Procedure ☐ Simplified ☐ Equiv. Lateral Force Dynamic
Architectural, Mechanical, Components anchored? ☐ Yes ☐ No

LATERAL DESIGN CONTROL ☐ Earthquake ☐ Wind

SOIL BEARING CAPACITIES
Field Test (provide copy of test report) _____ psf
Presumptive Bearing Capacity _____ psf
Pile size, type, and capacity _____

ELECTRICAL SYSTEM AND EQUIPMENT
(SEE ELECTRICAL DRAWINGS FOR ELECTRICAL ENERGY CODE CALCULATIONS.)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
(SEE MECHANICAL DRAWINGS FOR MECHANICAL ENERGY CODE CALCULATIONS.)

LIFE SAFETY PLAN LEGEND

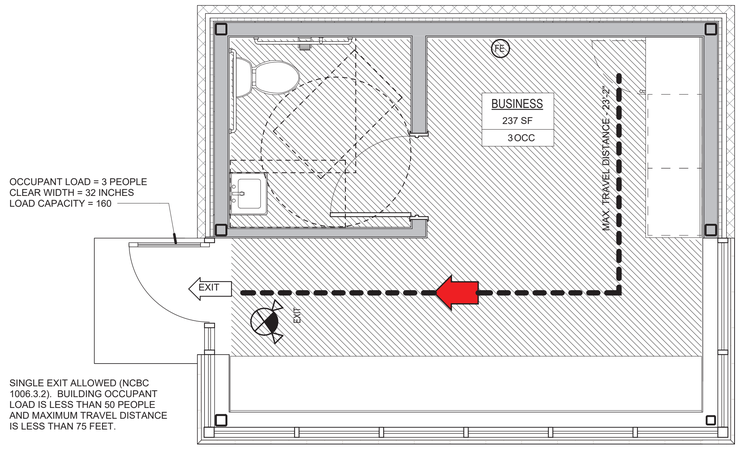
BUSINESS (B) - 100 GROSS

NAME
XX SF
X OCC
AREA NAME
SQUARE FOOTAGE
OCCUPANCY

PATH OF EGRESS

FE — EXISTING WALL MOUNTED FIRE EXTINGUISHER

EXIT — EXIT SIGN WITH EMERGENCY LIGHTS



1 LIFE SAFETY PLAN
3/8" = 1'-0"

GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

EDMUND J. GONTRAM III — REGISTERED ARCHITECT — 7177 — RALEIGH, N.C. — 11.6.23

GONTRAM ARCHITECTURE, INC. — CERT. NO. 51355 — REGISTERED ARCHITECTURAL CORPORATION — NORTH CAROLINA — RALEIGH, N.C.

ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE, NC 28306

PLOT DATE: 11/06/2023
ISSUED: NOVEMBER 6, 2023 FOR CONSTRUCTION

Rev.	Date	Description

DRAWN BY: PJA
APPROVED: EJG
PROJECT NO.: 22003
RECORD:
CONTENTS: BUILDING CODE SUMMARY

SHEET: G102

FINISH SCHEDULE

ROOM		FLOOR		WALLS				CEILING		
NUMBER	NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	TYPE	HEIGHT	NOTES
100	ATTENDENT ROOM	VCT	RUBBER	PTD GWB	PTD GWB	PTD GWB	PTD GWB	PTD GWB	SLOPED	
101	RESTROOM	VCT	RUBBER	PTD GWB	PTD GWB	PTD GWB	PTD GWB	PTD GWB	SLOPED	

NOTE: NORTH, EAST, SOUTH AND WEST ARE BASED ON PLAN NORTH, EAST, SOUTH AND WEST.

GENERAL FINISH NOTES:

1. ALL NEW EXPOSED STRUCTURAL STEEL, MECHANICAL DUCTWORK, ELECTRICAL CONDUIT, ETC. IS TO BE PAINTED. COLOR TO BE CONFIRMED BY OWNER.

2. INTERIOR FINISHES SHALL NOT HAVE A FLAME SPREAD RATING EXCEEDING THAT ALLOWED FOR TYPE V-B CONSTRUCTION.

3. ALL FINISH MATERIALS TO BE INSTALLED IN STRICT COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS.

4. ALL FINISHES TO BE NEW UNLESS OTHERWISE NOTED.

5. CONFIRM ALL FINISHES WITH OWNER. PRIOR TO CONSTRUCTION.

ABBREVIATIONS:

VCT: VINYL COMPOSITION TILE
RUBBER: 4" RUBBER BASE
GWB: GYPSUM WALLBOARD
PTD: PAINT

TOILET ACCESSORY LEGEND

MARK	DESCRIPTION	MODEL #
T1	TOILET TISSUE DISPENSER	BOBRICK B-6867
T2	18" GRAB BAR (VERTICAL)	BOBRICK B-6806.99 x 18
T3	42" GRAB BAR (HORIZONTAL)	BOBRICK B-6806.99 x 42
T4	36" GRAB BAR (HORIZONTAL)	BOBRICK B-6806.99 x 36
T5	MIRROR	BOBRICK B-165 2436
T6	WALL MOUNTED PAPER TOWEL DISPENSER	BOBRICK B-262
T7	COAT HOOK	BOBRICK B-542
T8	RESTROOM SIGNAGE	UNISEX/ACCESSIBLE, SEE DETAIL : 10 / A501
T9	SOAP DISPENSER	BY TENANT

NOTES:

1. ALL TOILET ACCESSORIES MODEL NUMBERS IN THIS SCHEDULE ARE BASED ON BOBRICK WASHROOM EQUIPMENT. INC, UNLESS NOTED OTHERWISE, AND SHALL COMPLY WITH ADA. ALL WALL MOUNTED ACCESSORIES SHALL NOT INTERFERE W/ REQUIRED CLEARANCES PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN. EQUALS APPROVED BY TENANT/OWNER ARE ACCEPTABLE

2. ACCESSORY MOUNTING HEIGHT TO BE ADJUSTED AS REQUIRED TO COORDINATE WITH PLUMBING FIXTURES.

3. INSTALL FIRE RETARDANT TREATED WOOD OR METAL STUD BLOCKING FOR ALL WALL MOUNTED TOILET ACCESSORIES

PLAN NOTES:

1. EXTERIOR DIMENSIONS SHOWN ARE FROM FACE OF WALL TO FACE OF WALL OR FROM COLUMN CENTERLINE TO COLUMN CENTERLINE.

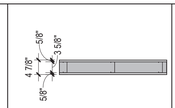
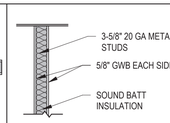
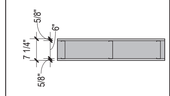
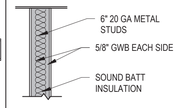
2. INTERIOR DIMENSIONS SHOWN ARE FROM FACE OF NEW STUD/CENTERLINE TO FACE OF NEW STUD/CENTERLINE

3. DIMENSIONS INDICATED AS "CLEAR" OR "CLR" ARE FROM FINISHED SURFACE TO FINISHED SURFACE.

4. DIMENSIONS INDICATED AS "MIN." OR "MINIMUM" ARE ABSOLUTE MINIMUM DIMENSIONS AND ARE NOT TO BE DECREASED. DIMENSIONS INDICATED AS "MAX." OR "MAXIMUM" ARE ABSOLUTE MAXIMUM DIMENSIONS AND ARE NOT TO BE INCREASED.

5. ALTHOUGH THESE DRAWINGS ARE DRAWN TO SCALE, NO DIMENSIONS ARE TO BE DETERMINED BY SCALING THE DRAWINGS. ANY QUESTIONS OR DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.

INTERIOR PARTITION SCHEDULE

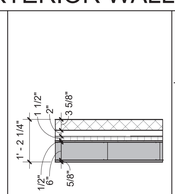
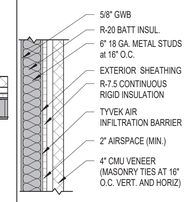
1			NEW UNRATED INTERIOR PARTITION: \ 3 5/8" 20 GA METAL STUDS AT 16" O.C. TO CEILING ABOVE, WITH ONE LAYER 5/8" GWB ON EACH SIDE. FINISH AS SCHEDULED. PROVIDE SOUND BATT INSULATION (R-11 UNFACED BATT INSULATION)
2			NEW UNRATED INTERIOR PARTITION: \ 6" 20 GA METAL STUDS AT 16" O.C. TO CEILING ABOVE, WITH ONE LAYER 5/8" GWB ON EACH SIDE. FINISH AS SCHEDULED. PROVIDE SOUND BATT INSULATION (R-11 UNFACED BATT INSULATION)

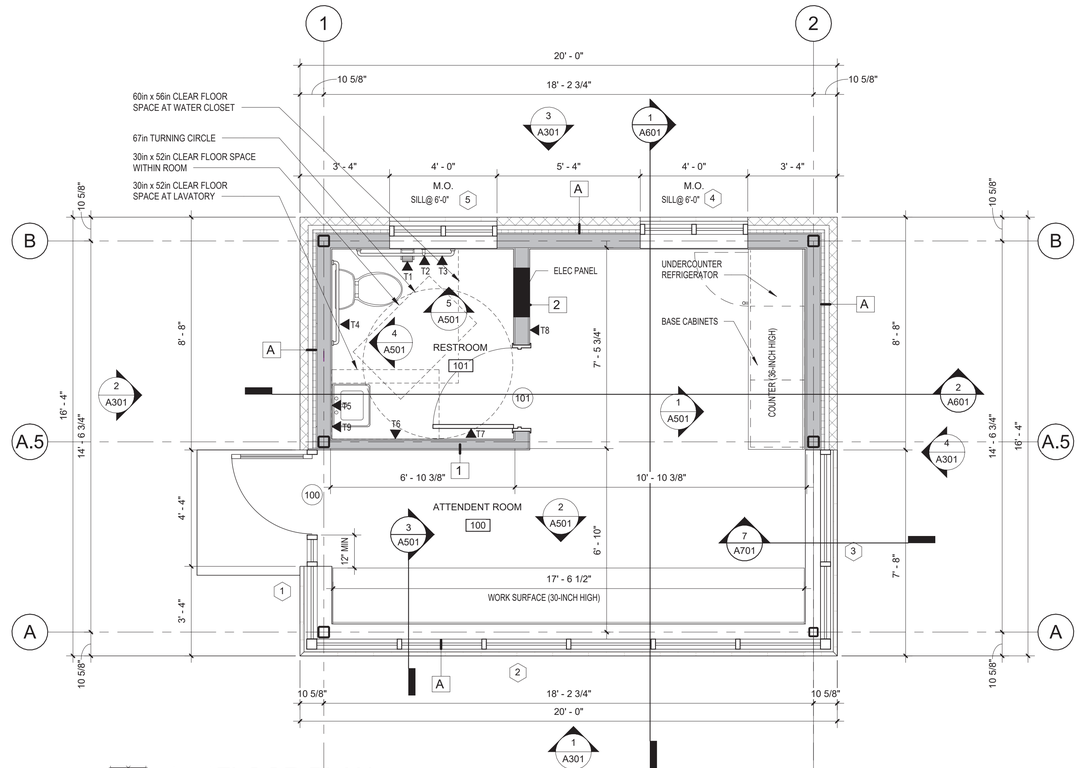
1. PARTITION TYPE #1 IS TYPICAL THROUGHOUT PROJECT, UNLESS OTHERWISE NOTED.

2. WHERE PARTITIONS OF VARIOUS THICKNESS MEET, MAINTAIN A FLUSH SURFACE ON THE SIDE WHERE FACES ARE STRAIGHT AND CONTINUOUS, UNLESS OTHERWISE NOTED.

3. PARTITIONS IN ALL TOILET ROOMS TO HAVE WATER RESISTANT TYPE "X" GYPSUM BOARD IN THICKNESS TO MATCH SCHEDULED.

EXTERIOR WALL SCHEDULE

A			NEW UNRATED LOAD BEARING WALL: 6" 18 GA. METAL STUDS AT 16" O.C. TO JOIST ABOVE, R-20 BATT INSULATION, TYVEK AIR INFILTRATION BARRIER OVER EXTERIOR SHEATHING, R-7.5 RIGID INSULATION, 2" AIRSPACE, 4" CMU NOTE: SEE SHEET A701



1 FLOOR PLAN
3/8" = 1'-0"

GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
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ATTENDANT BUILDING
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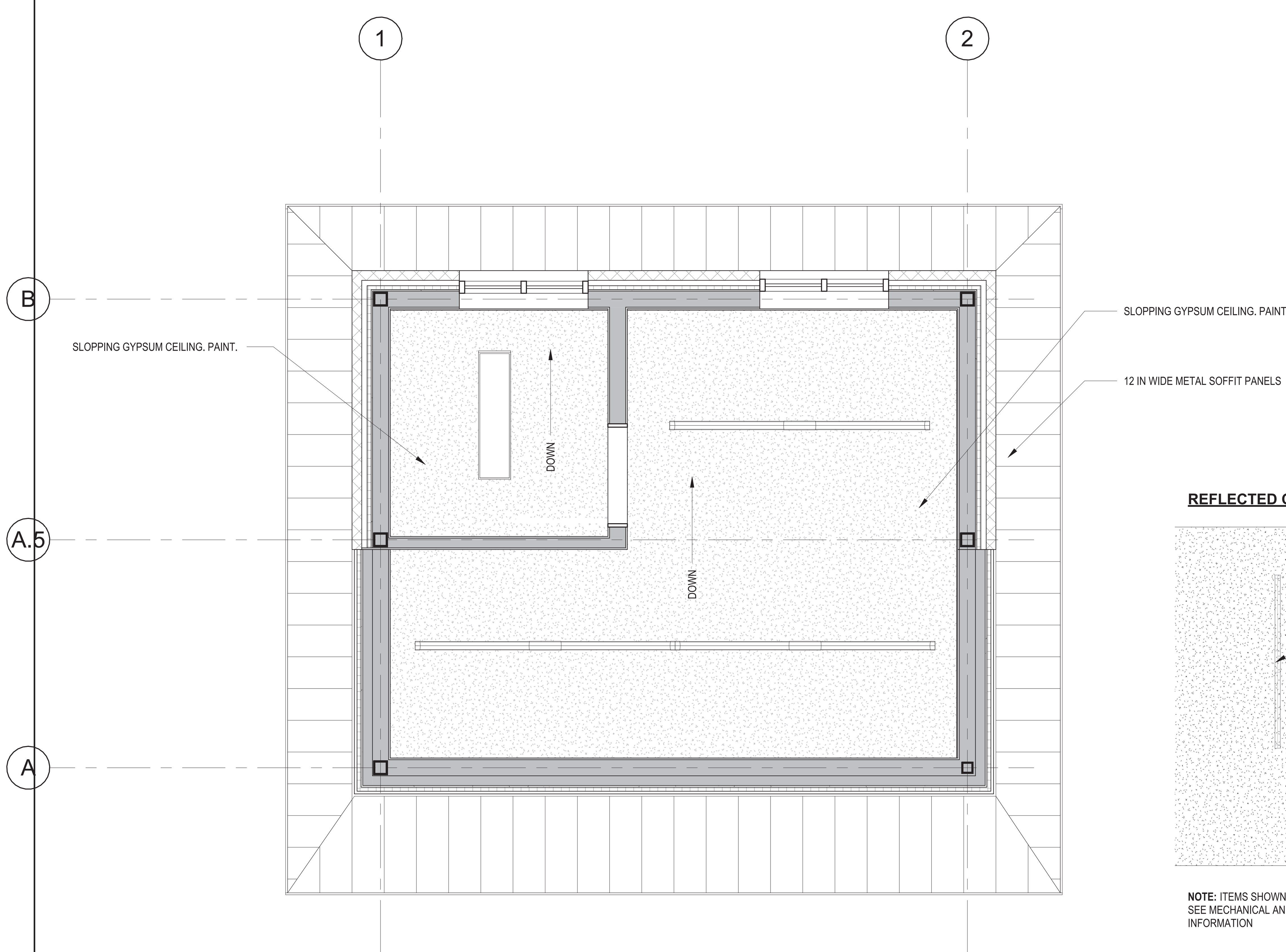
575 ASSEMBLY COURT | FAYETTEVILLE, NC 28306

PLOT DATE: 11/06/2023
ISSUED: NOVEMBER 6, 2023
FOR CONSTRUCTION

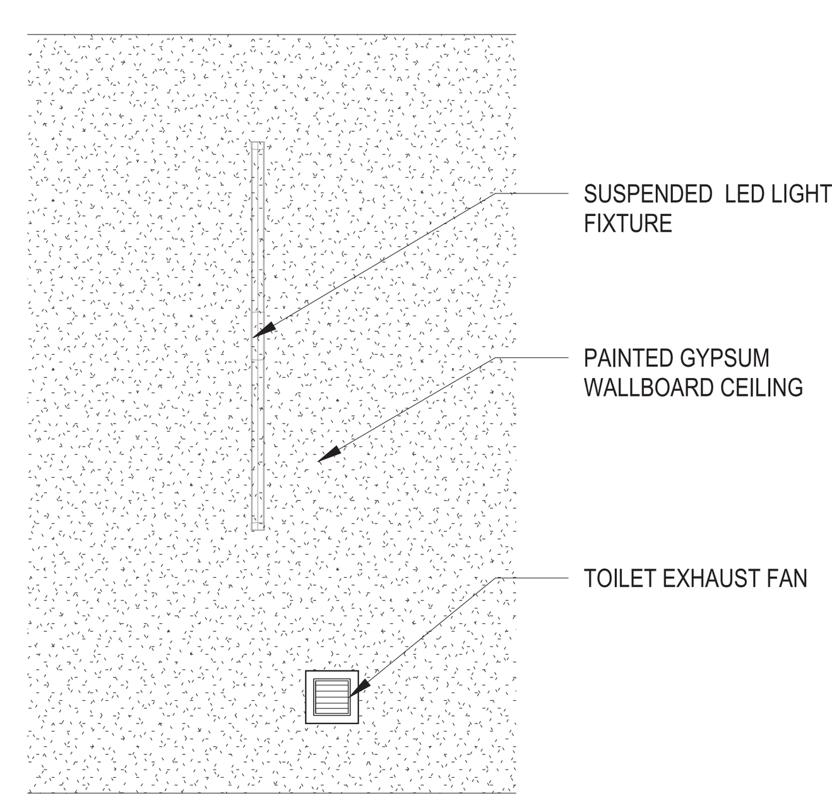
Rev.	Date	Description

DRAWN BY: PJA
APPROVED: EJG
PROJECT NO.: 22003
RECORD:
CONTENTS: FLOOR PLAN

SHEET: A101

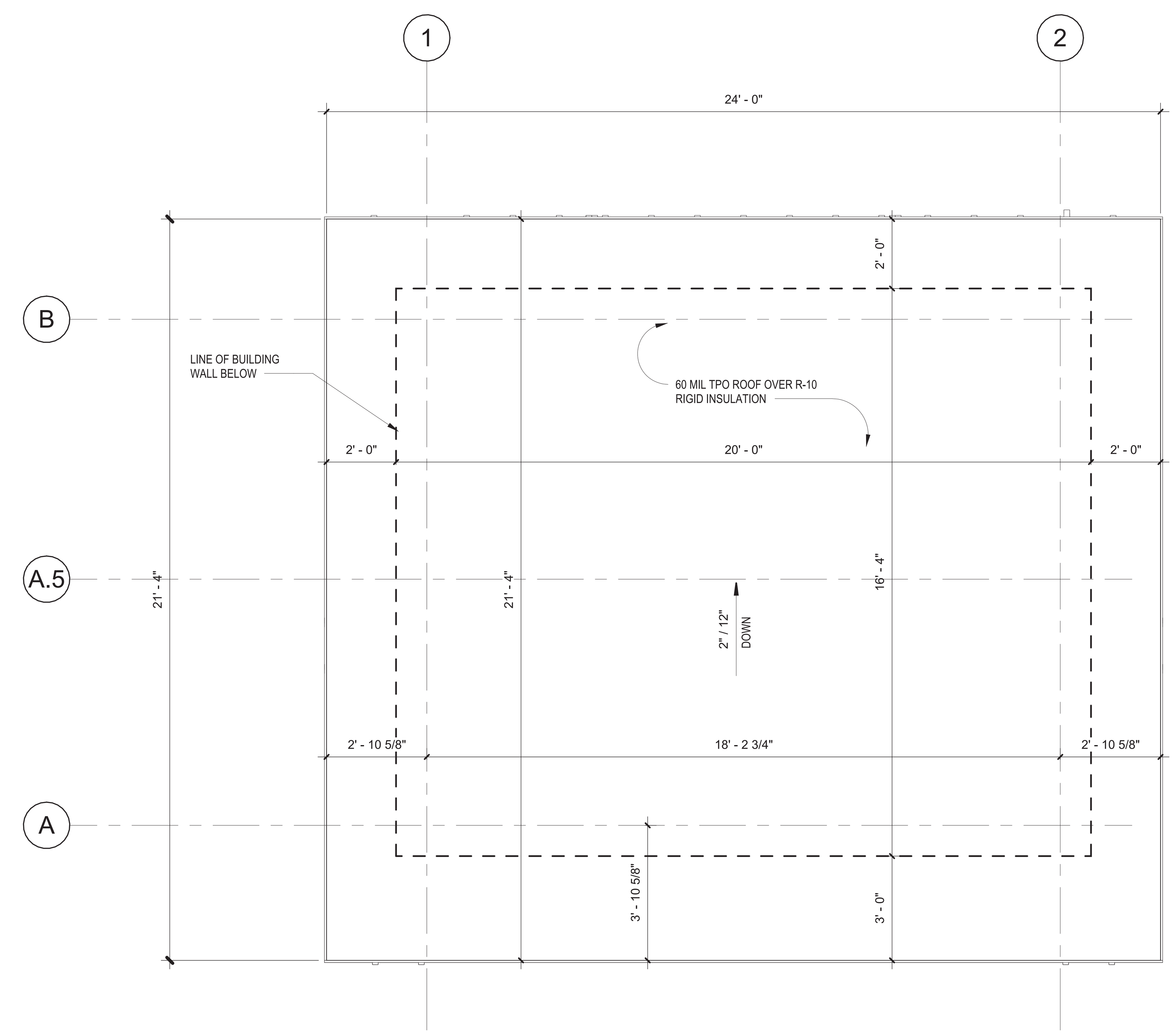


REFLECTED CEILING PLAN LEGEND



NOTE: ITEMS SHOWN IN CEILING PLAN ARE FOR GENERAL INFORMATION. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

1 REFLECTED CEILING PLAN
3/8" = 1'-0"



2 ROOF PLAN
3/8" = 1'-0"

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5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
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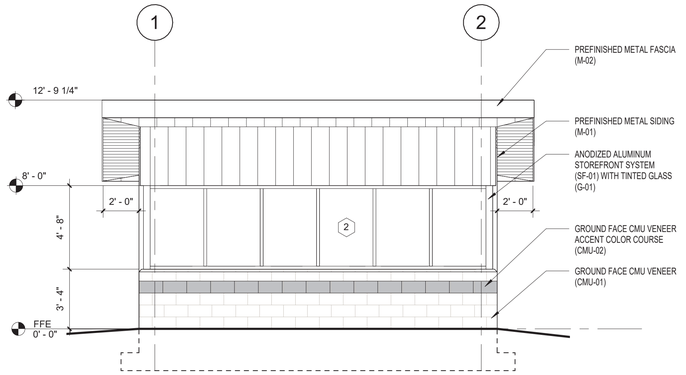
Rev.	Date	Description

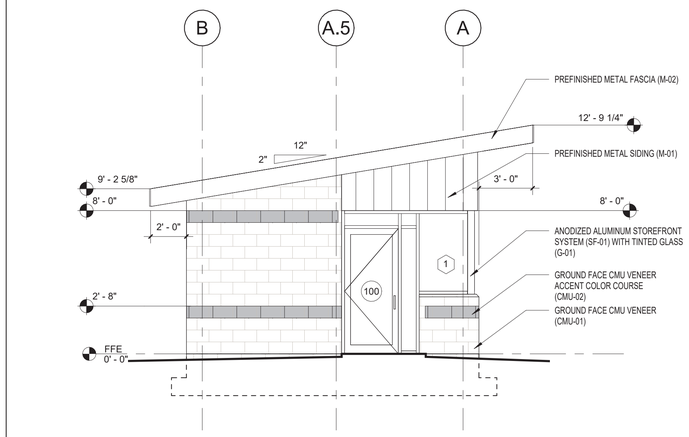
DRAWN BY: PJA	APPROVED: EJG
PROJECT NO.: 22003	RECORD:

CONTENTS: ROOF & REFLECTED CEILING PLAN

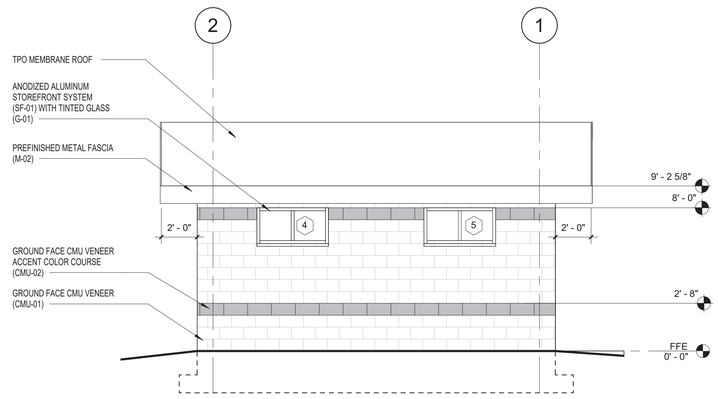
SHEET: A201



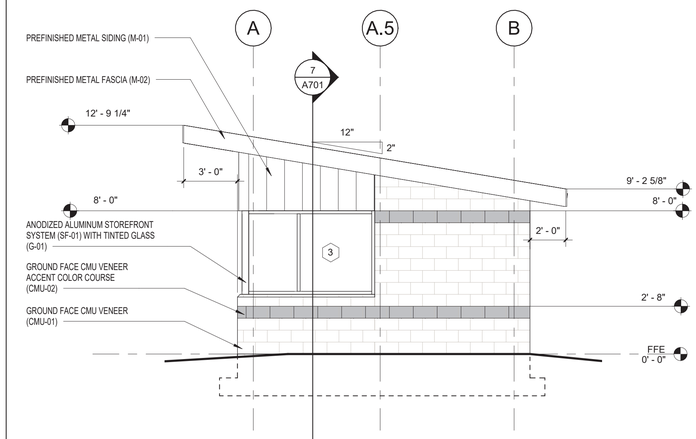
1 ELEVATION - FRONT
1/4" = 1'-0"



2 ELEVATION -LEFT
1/4" = 1'-0"



3 ELEVATION - REAR
1/4" = 1'-0"



4 ELEVATION - RIGHT
1/4" = 1'-0"

EXTERIOR COLOR SCHEDULE:

GROUND FACED CMU VENEER (CMU-01):
MANUFACTURER: ADAMS AN OLDCASTLE COMPANY
PRODUCT: TRENWYTH ARCHITECTURAL HIGH POLISHED MASONRY UNIT
COLOR: 4107-HP

GROUND FACED CMU VENEER ((CMU-02)):
MANUFACTURER: ADAMS AN OLDCASTLE COMPANY
PRODUCT: TRENWYTH ARCHITECTURAL HIGH POLISHED MASONRY UNIT
COLOR: 4205-HP

TINTED GLASS (G-01):
MANUFACTURER: VITRO
PRODUCT: SOLARBAN
COLOR: GRAY

PREFINISHED METAL SIDING (M-01):
MANUFACTURER: AEP SPAN
PRODUCT: FLUSH PANEL
COLOR: DARK BRONZE

ALUMINUM STOREFRONT SYSTEM (SF-01):
MANUFACTURER: YKK
PRODUCT: YES 45 TU
COLOR: DARK BRONZE ANODIZED

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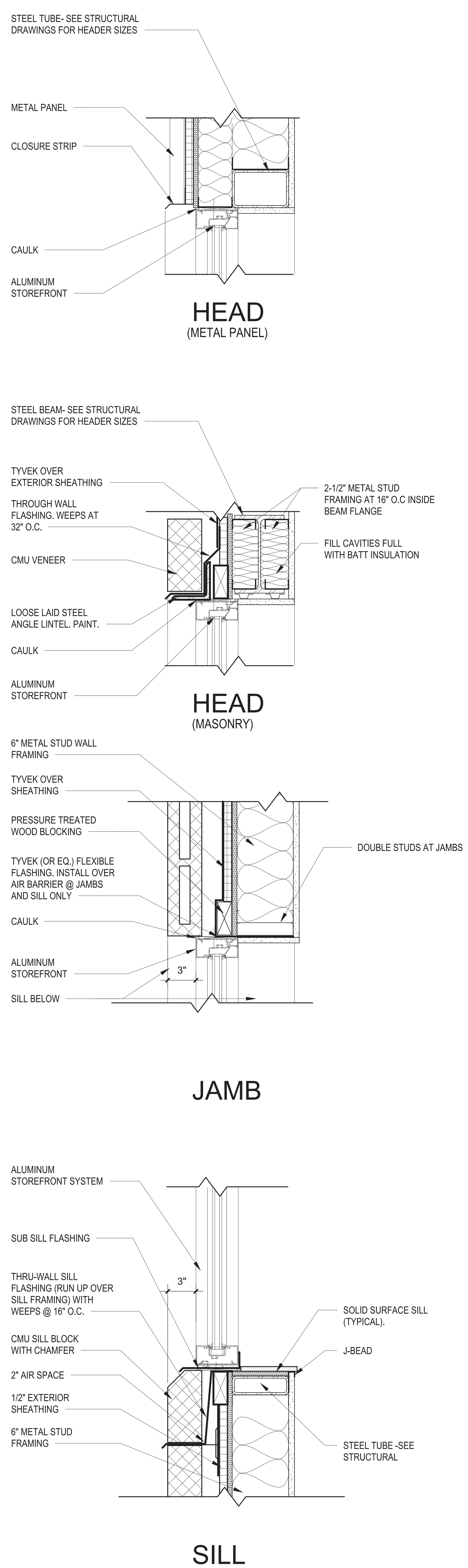
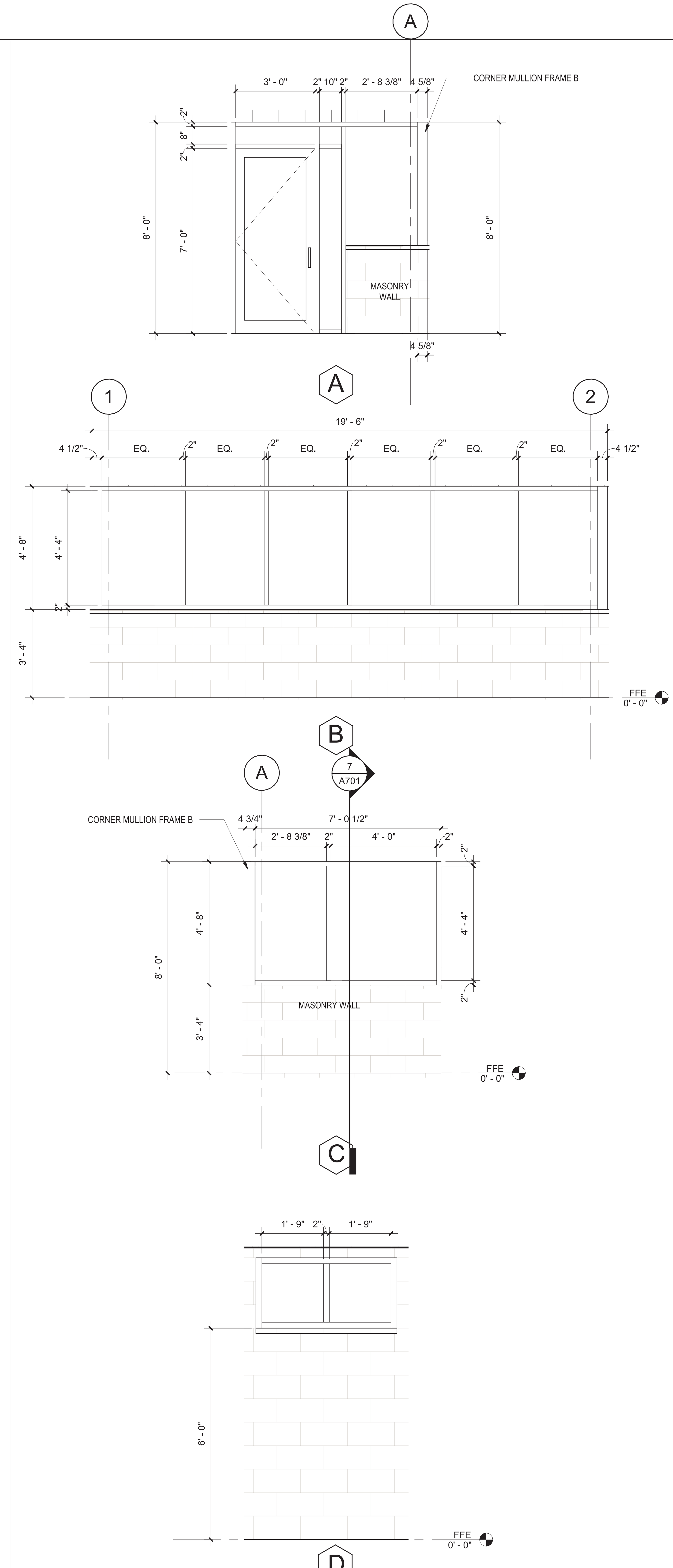
Rev.	Date	Description

DRAWN BY: PJA | APPROVED: EJG
PROJECT NO.: 22003 | RECORD:
CONTENTS: EXTERIOR ELEVATIONS

SHEET: A301



1 SECTION - EXTERIOR WINDOW
1 1/2" = 1'-0"



2 ALUMINUM FRAME TYPES.
1/2" = 1'-0"

WINDOW SCHEDULE

MARK	WIDTH	HEIGHT	TYPE	MATERIAL	NOTES
1	7' - 0 3/8"	8' - 0"	A	DARK BRONZE ALUMINUM	1" INSULATED GLASS
2	19' - 6"	4' - 8"	B	DARK BRONZE ALUMINUM	1" INSULATED GLASS
3	7' - 0 3/8"	4' - 8"	C	DARK BRONZE ALUMINUM	1" INSULATED GLASS
4	4' - 0"	2' - 0"	D	DARK BRONZE ALUMINUM	1" INSULATED GLASS
5	4' - 0"	2' - 0"	D	DARK BRONZE ALUMINUM	1" INSULATED GLASS

WINDOW NOTES:

1. GLAZING TYPE FOR EXTERIOR STOREFRONT ASSEMBLIES TO BE 1" INSULATED GLAZING LOW-E UNITS, TINTED GLASS (SOLARBAN 70XL OR EQUAL). INTERIOR GLAZING TO BE 1/4" CLEAR (TEMPERED OR LAMINATED SAFETY GLASS WHERE INDICATED). SEE MINIMUM CRITERIA ON SHEET G102 UNDER ENERGY SUMMARY.

2. STOREFRONT ASSEMBLIES TO BE CLEAR ANODIZED ALUMINUM. EXTERIOR FRAMES TO BE THERMALLY BROKEN FRAMES.

3. GLAZING FOR EXTERIOR STOREFRONT DOORS TO BE 1/4" TINTED TEMPERED GLAZING.

4. ALL WINDOWS TO BE PROPERLY FLASHED AT HEAD, JAMBS AND SILLS. PROVIDE FLASHING WITH END DAMS AT ALL SILLS.

5. DIMENSIONS SHOWN ARE NOT TO BE USED FOR FABRICATION. ALL DIMENSIONS ARE TO BE CONFIRMED WITH SHOP DRAWINGS AND FIELD MEASUREMENTS AFTER COMPLETION OF CONSTRUCTION OF OPENINGS AND PRIOR TO FABRICATION OF WINDOW ASSEMBLIES.

6. SEE STRUCTURAL DRAWINGS FOR HEADER CONSTRUCTION.

7. PROVIDE TEMPERED GLAZING WHERE INDICATED AND WHERE REQUIRED BY CODE.

8. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION REGARDING TRANSOMS AND SIDELITE.

9. SEE DETAIL FOR WINDOW SILLS AND TRIM INFORMATION.

DOOR SCHEDULE

		DOOR						FRAME				
MARK	ROOM	WIDTH	HEIGHT	THK	TYPE	MATERIAL	FINISH	MATERIAL	FINISH	FIRE RATING	HDW SET	NOTES
100	ATTENDENT	3' - 0"	7' - 0"		SF-01	ALUMINUM	DARK BRONZE	ALUMINUM	DARK BRONZE	NR	1	
101	RESTROOM	3' - 0"	7' - 0"	1 3/4"	A	SOLID CORE WOOD	STAIN	HM	PAINT	NR	2	6" stud wall

DOOR HARDWARE

HARDWARE SET NO. (ALUMINUM STOREFRONT -EXTERIOR SINGLE ENTRY DOOR):
HEAVY-DUTY HINGES: (3)
C PULLS: (1)
CYLINDER
WEATHER STRIPPING: (1) SET
THRESHOLD: (1)
CLOSER: (1)

HARDWARE SET NO. (INTERIOR TOILET ROOM DOOR):
HEAVY-DUTY HINGES: (3)
PRIVACY LOCKSET: (1)
SILENCERS: (3)
WALL/FLOOR STOP: (1)

DOOR NOTES

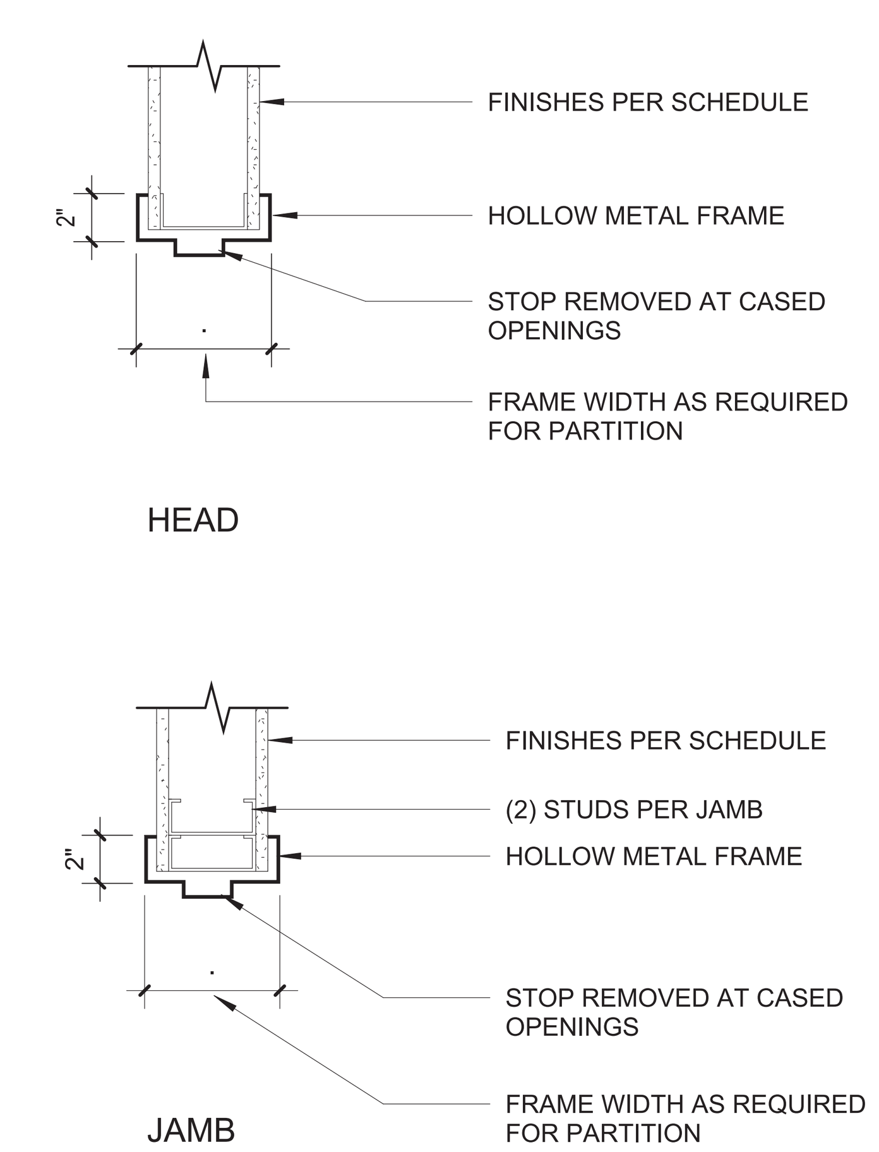
1. HARDWARE FINISH TO BE ***US26D OR US32D*** (CONFIRM W/ OWNER). HARDWARE TO BE STANDARD-DUTY, COMMERCIAL HARDWARE, SCHLAGE AL SERIES "SATURN" (OR APPROVED EQUAL).

2. PROVIDE HARDWARE THAT COMPLIES WITH THE NCBC, THE AMERICAN'S WITH DISABILITIES ACT AND ICC/ANSI A117.1.

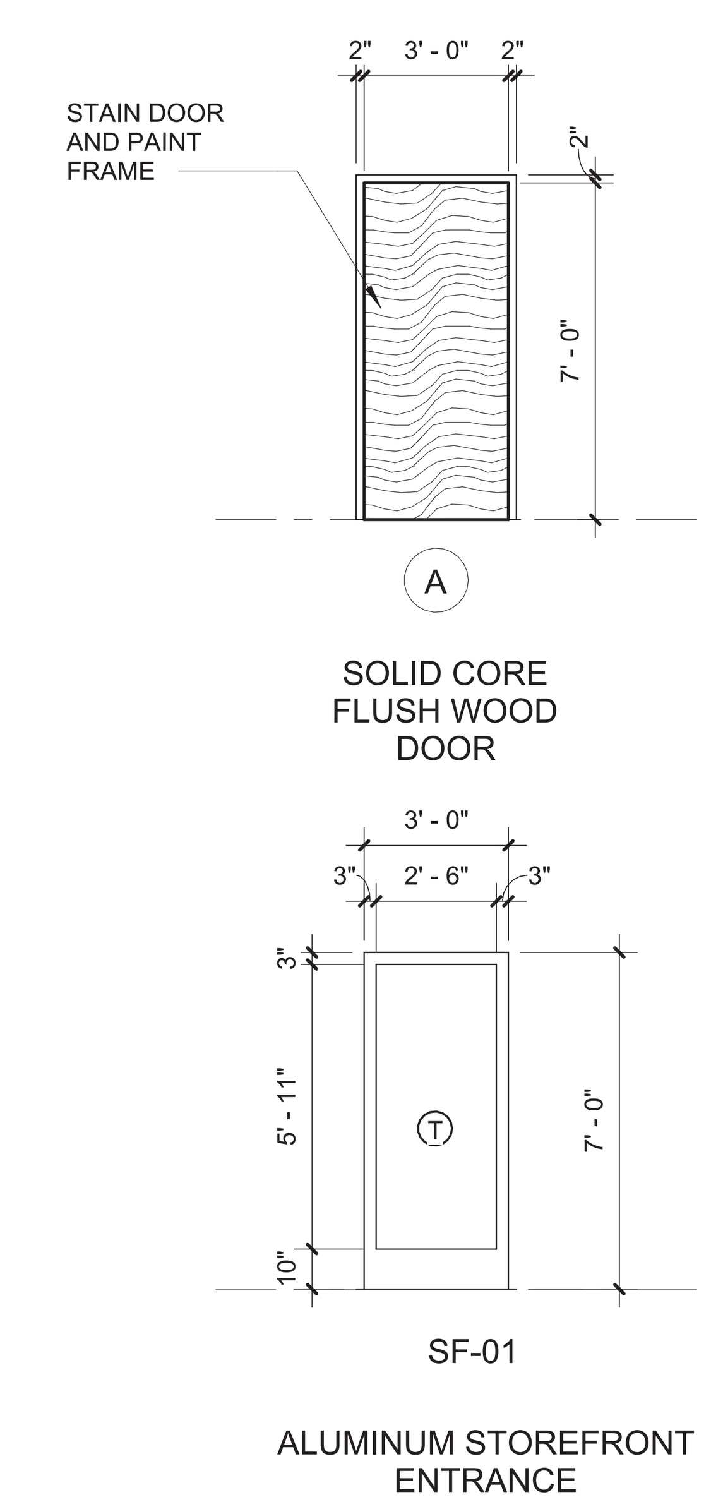
3. ALL DOORS AND FRAMES TO BE FINISHED AS SCHEDULED. **WOOD SPECIES TO BE NATURAL ROTARY CUT BIRCH, DOORS TO BE FIELD FINISHED**

4. G.C. TO COORDINATE. FINAL HARDWARE SELECTION/ SCHEDULING/ KEYING WITH OWNER. ALL DOORS WILL BE KEYED TO OWNER'S MASTER KEYING SYSTEM.

5. G.C. TO PROVIDE ADDITIONAL HARDWARE AS REQUIRED BY DOOR MANUFACTURER



3 DOOR DETAILS-INTERIOR
1 1/2" = 1'-0"



4 DOOR TYPES
1/4" = 1'-0"

ga
GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

EDMUND J. GONTRAM, III — REGISTERED ARCHITECT — 7077 — RALEIGH, N.C. — 11.6.23

GONTRAM ARCHITECTURE, INC — REGISTERED ARCHITECTURAL CORPORATION — CERT. NO. 51355 — NORTH CAROLINA — RALEIGH, N.C.

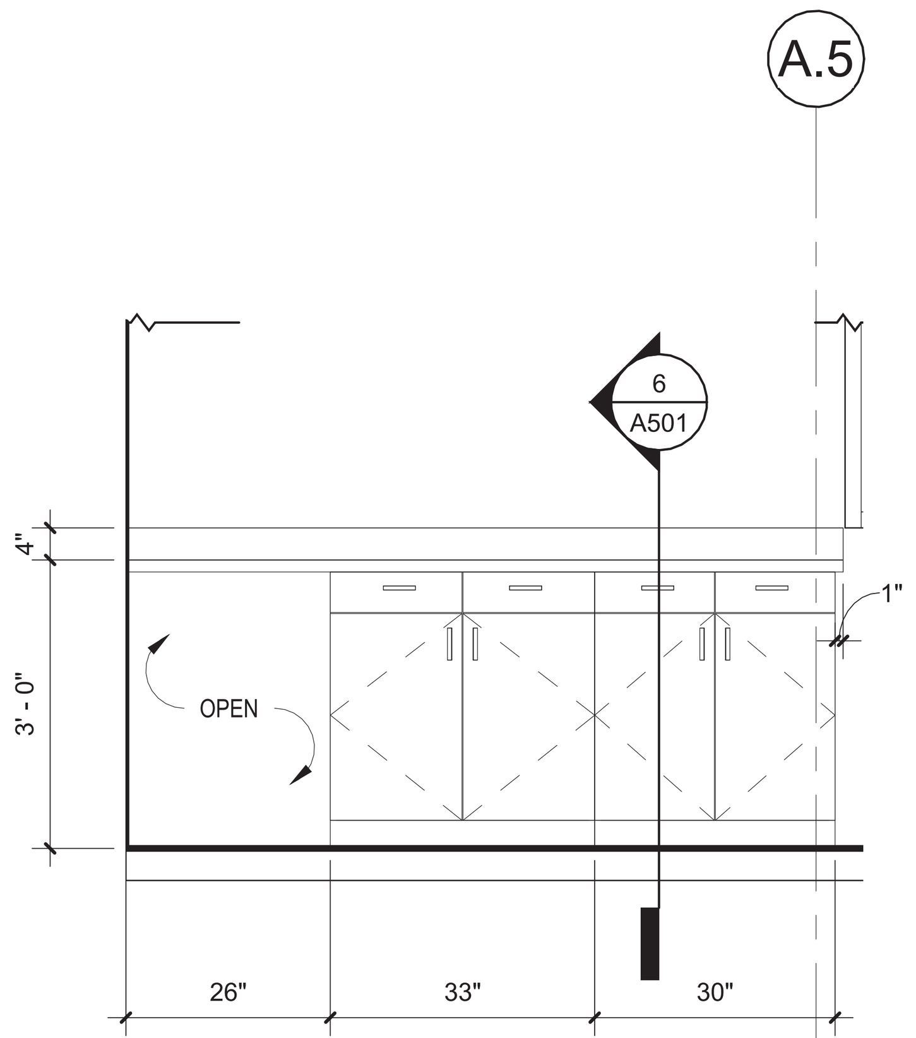
ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE, NC 28306

PLOT DATE: 11/06/2023
ISSUED: NOVEMBER 6, 2023
FOR CONSTRUCTION

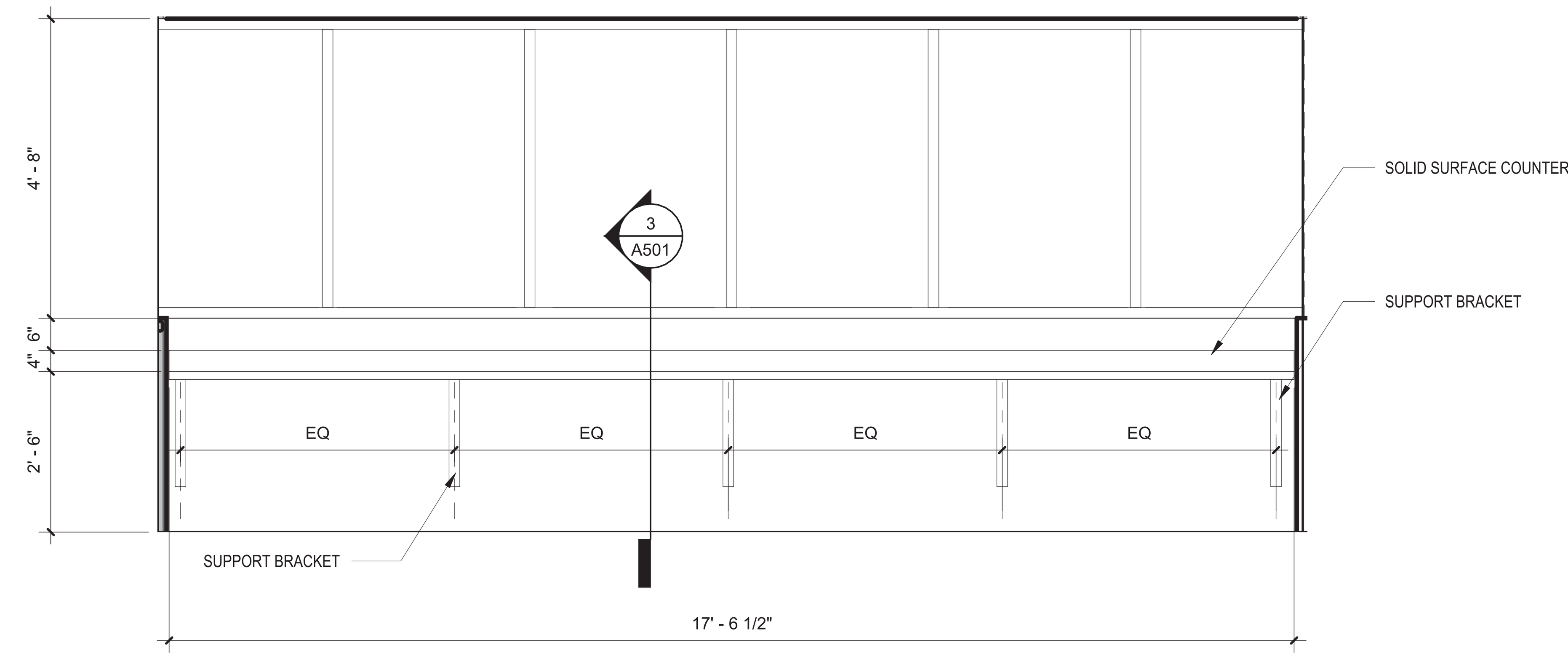
Rev.	Date	Description

DRAWN BY: PJA
APPROVED: EJG
PROJECT NO.: 22003
RECORD:
CONTENTS: WINDOW & DOOR SCHEDULE

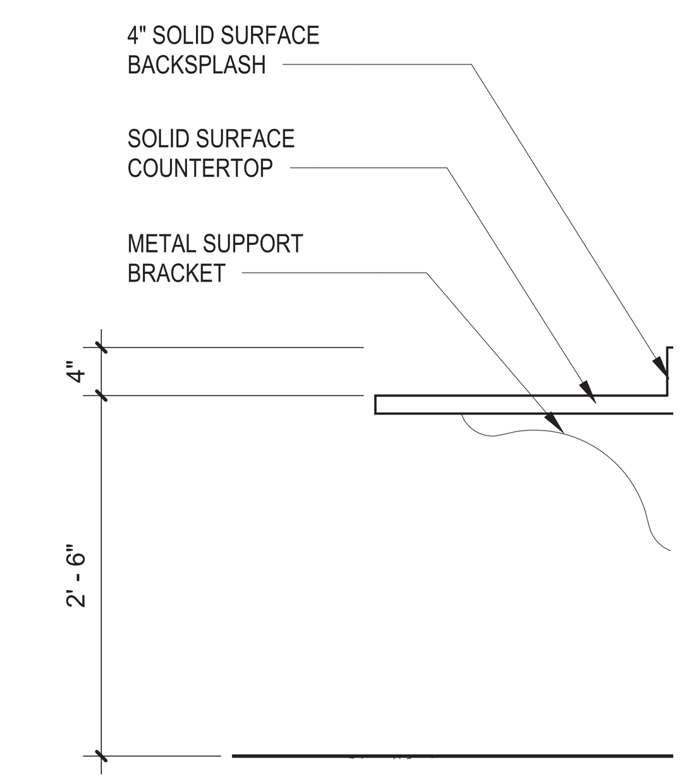
SHEET: A401



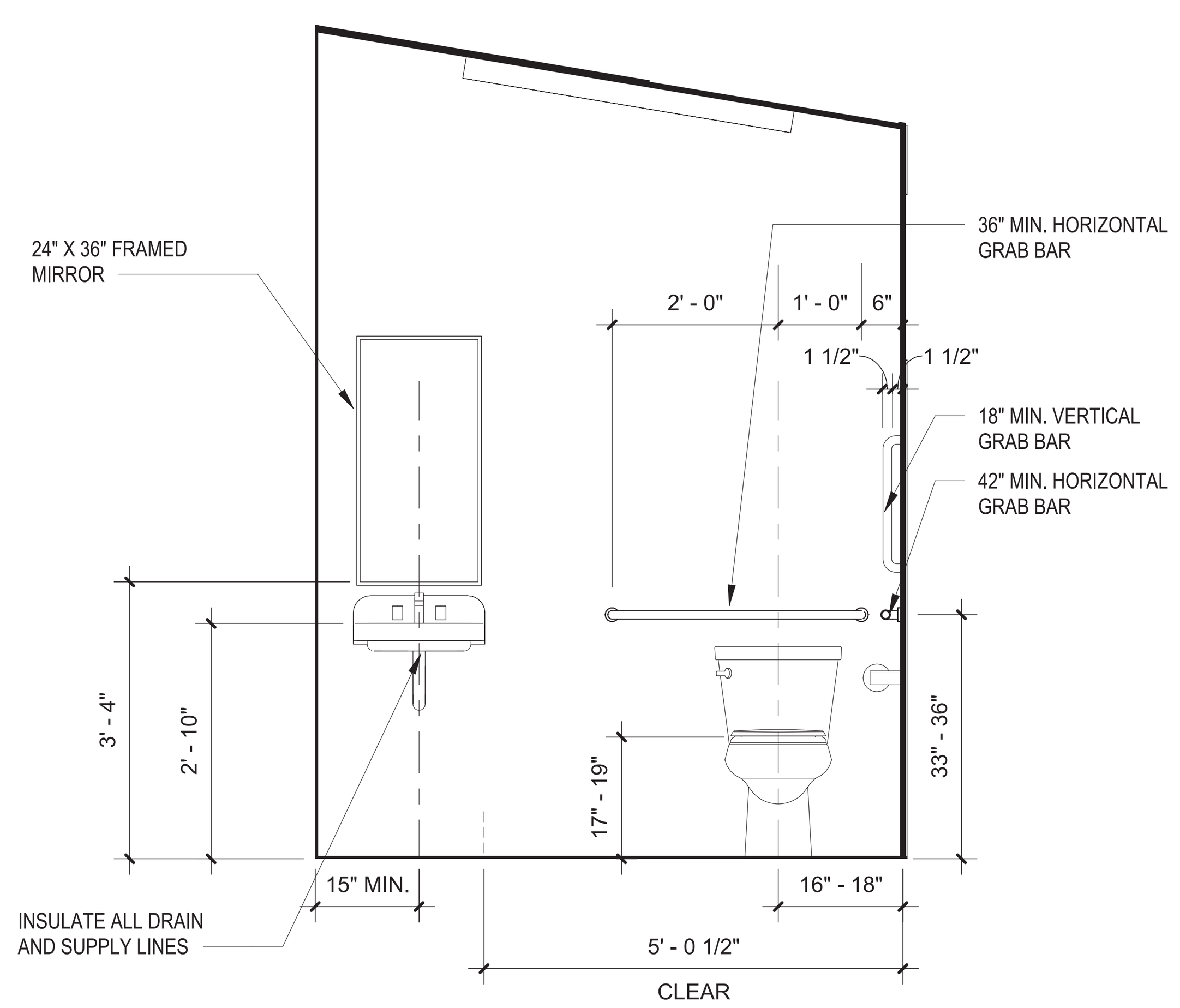
1 CASEWORK ELEVATION
1/2" = 1'-0"



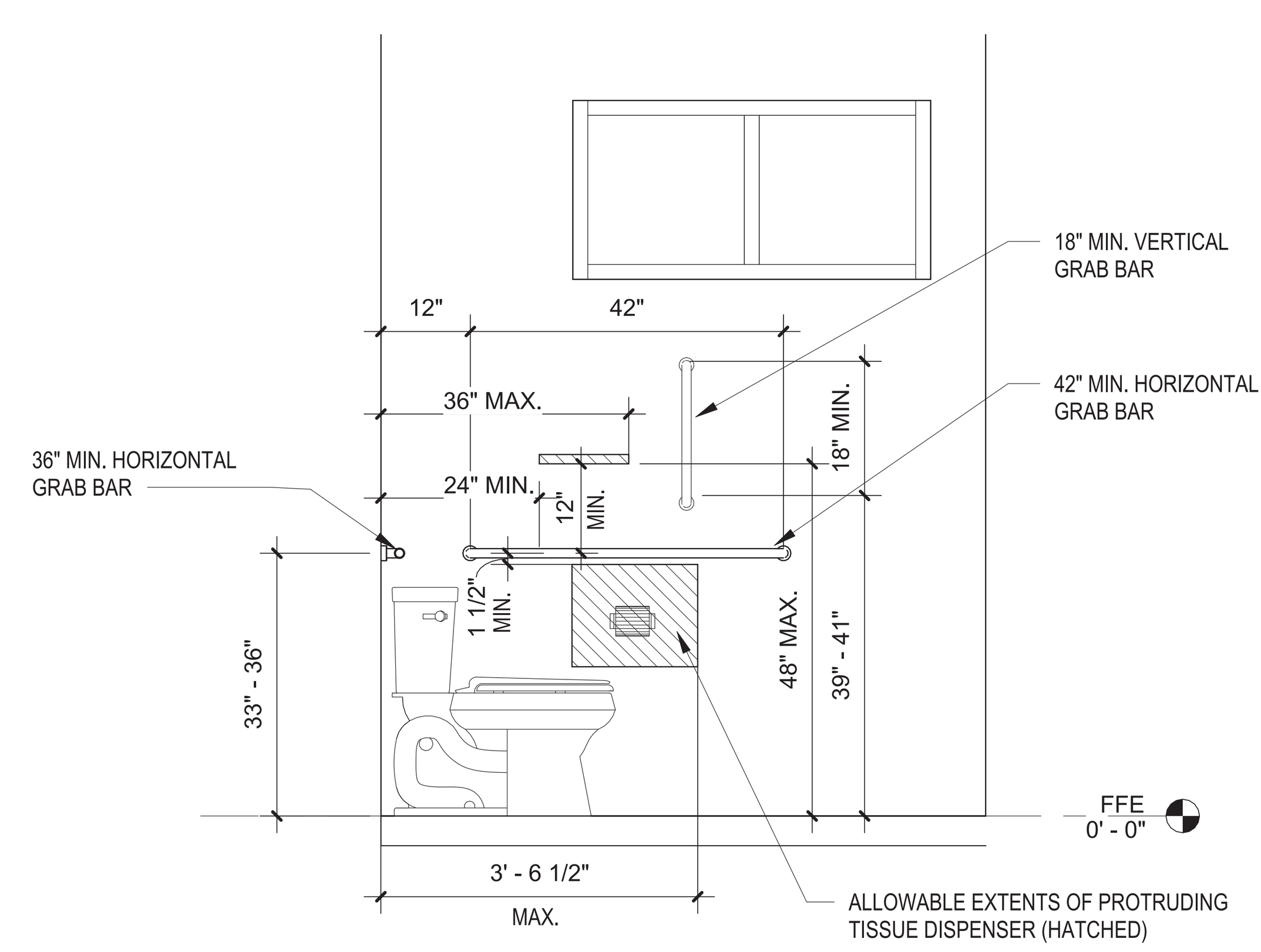
2 WORKSPACE ELEVATION
1/2" = 1'-0"



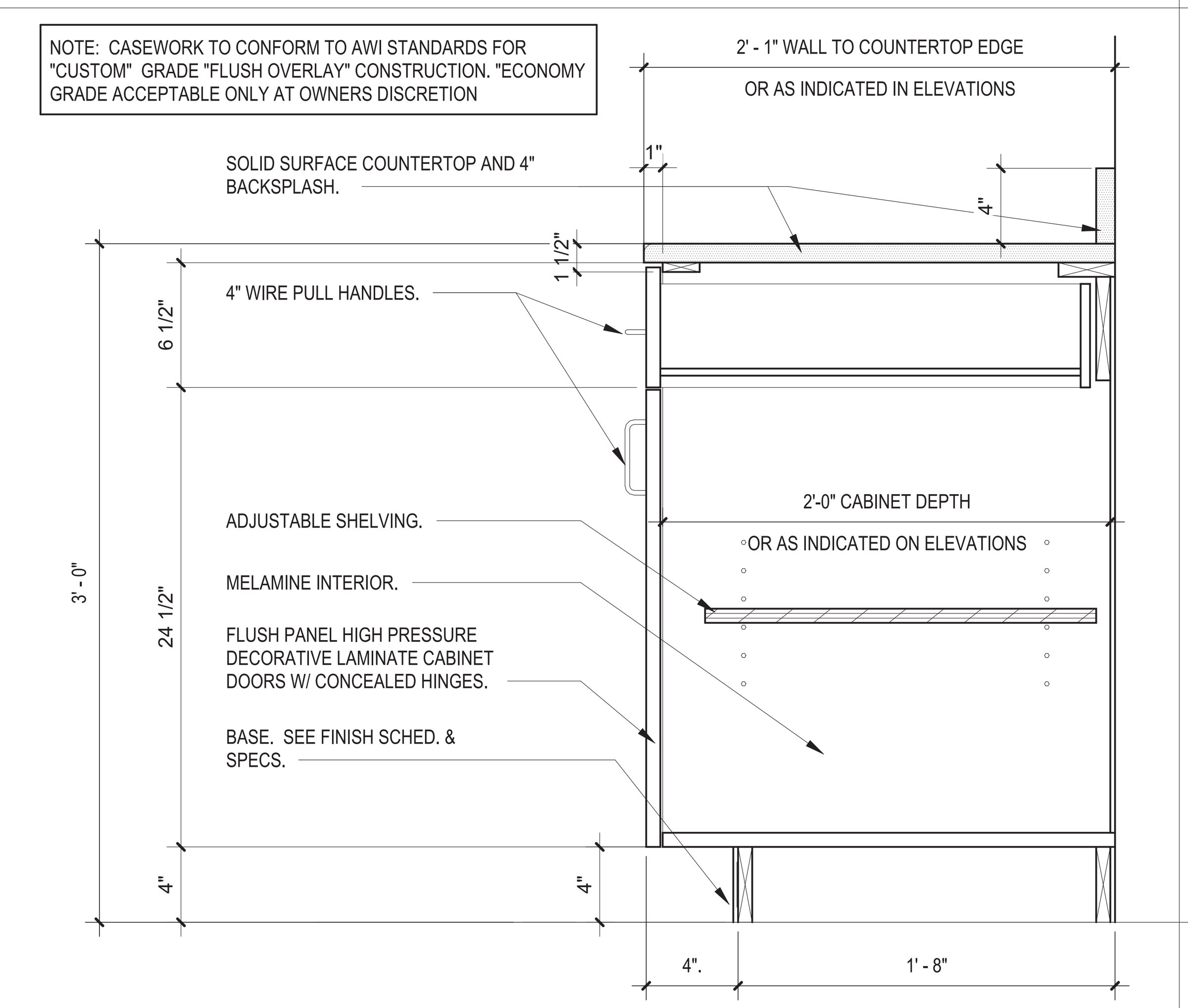
3 SECTION-COUNTER
3/4" = 1'-0"



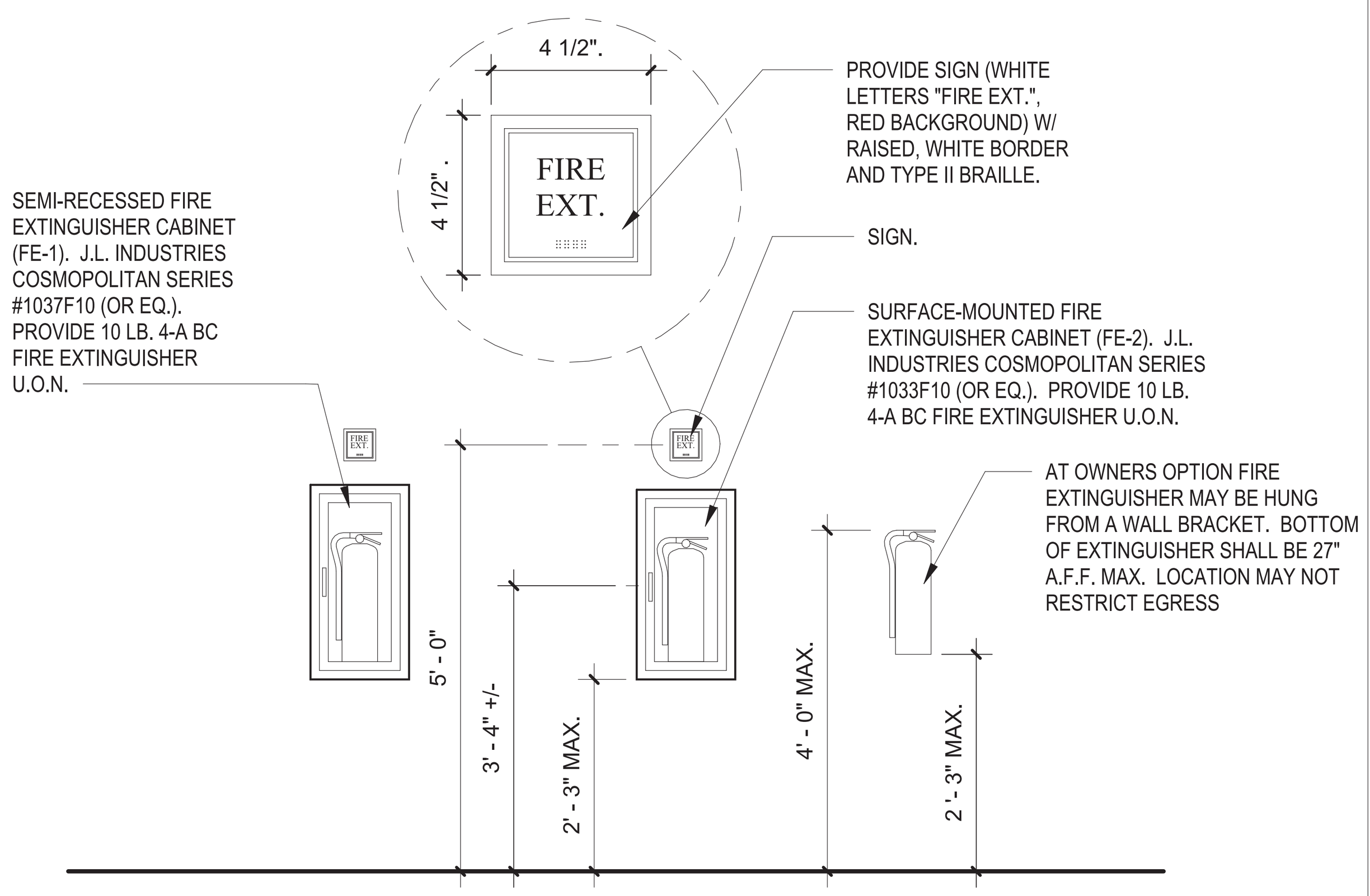
4 RESTROOM ELEVATION (REAR)
1/2" = 1'-0"



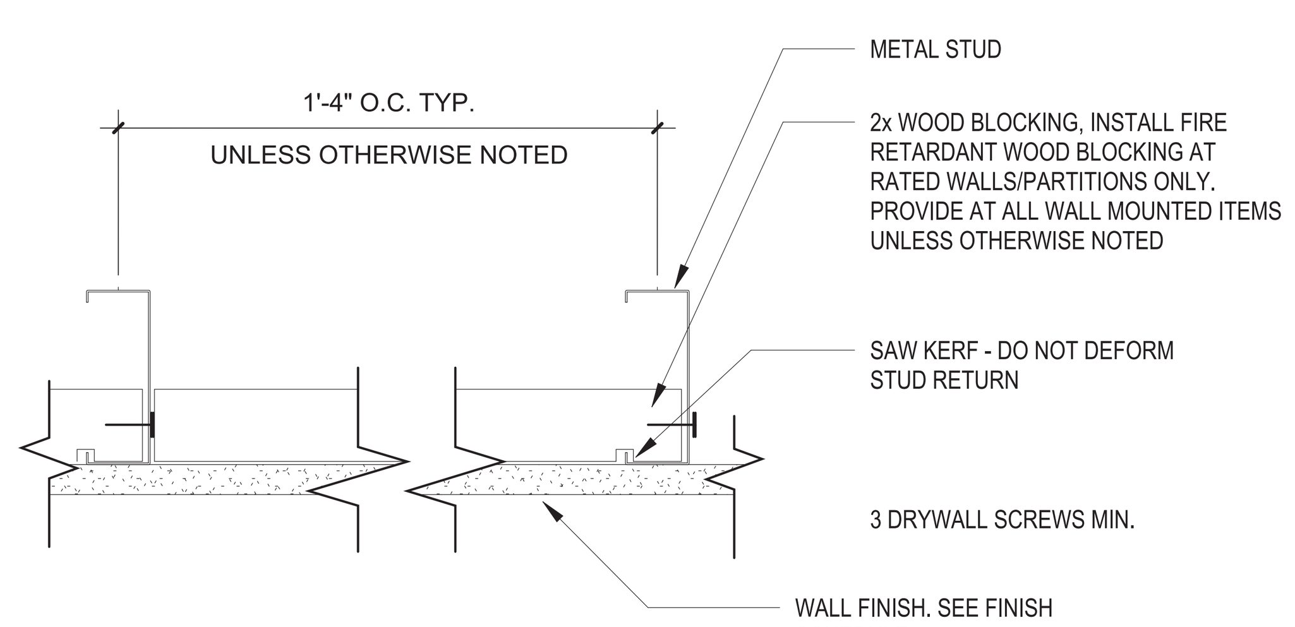
5 RESTROOM ELEVATION (SIDE)
1/2" = 1'-0"



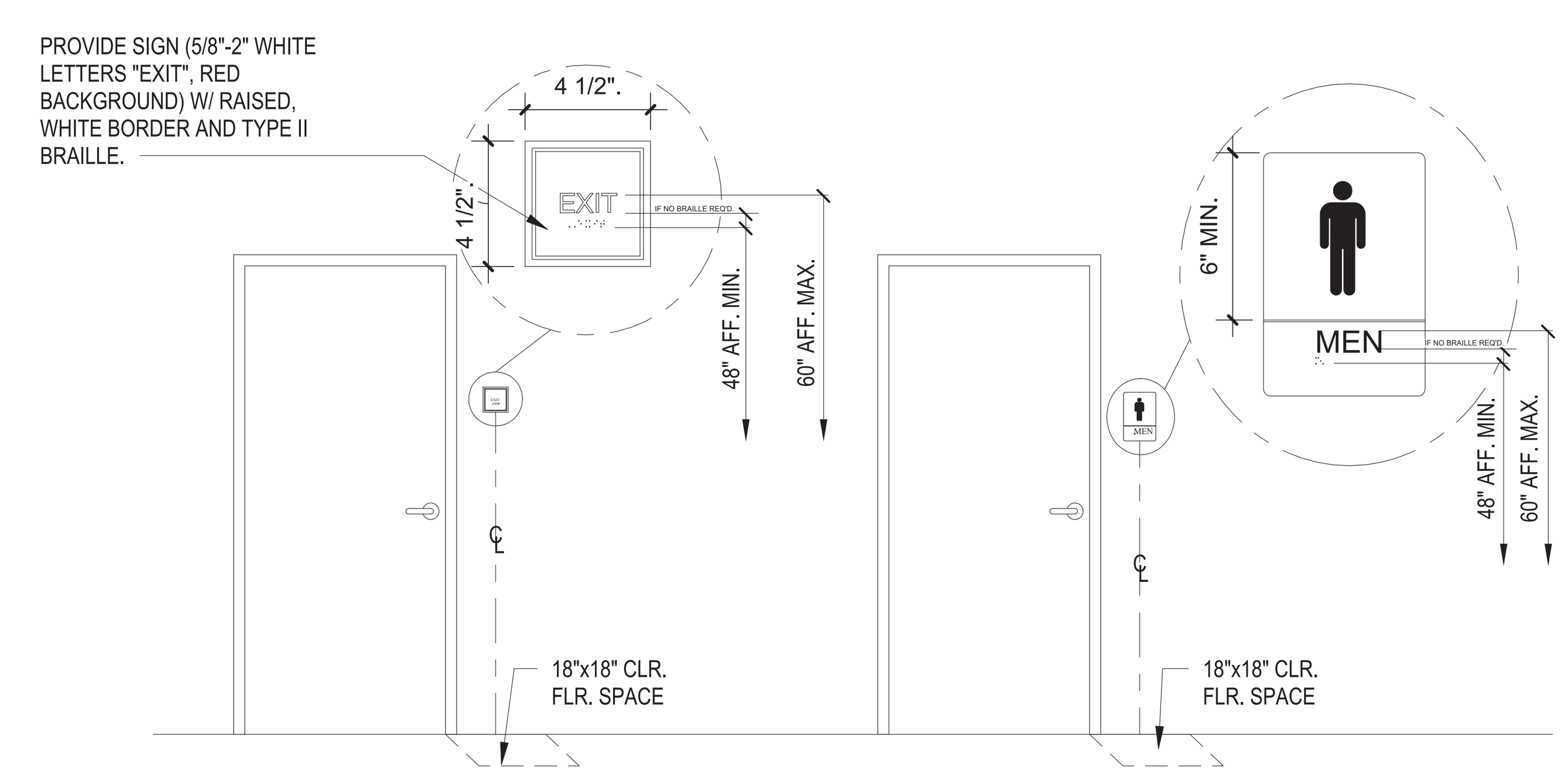
6 SECTION - BASE CABINETS
1 1/2" = 1'-0"



8 FIRE EXTINGUISHER DETAIL
1/2" = 1'-0"



9 TYP. WALL BLOCKING
3" = 1'-0"



10 TYPICAL SIGNAGE DETAILS
3/8" = 1'-0"

GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

EDMUND J. GONTRAM, III
RALEIGH, N.C.
11-6-23

GONTRAM ARCHITECTURE, INC
CERT. NO. 51355
NORTH CAROLINA
RALEIGH, N.C.

ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE, NC 28306

PLOT DATE: 11/06/2023
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Rev.	Date	Description

DRAWN BY: PJA
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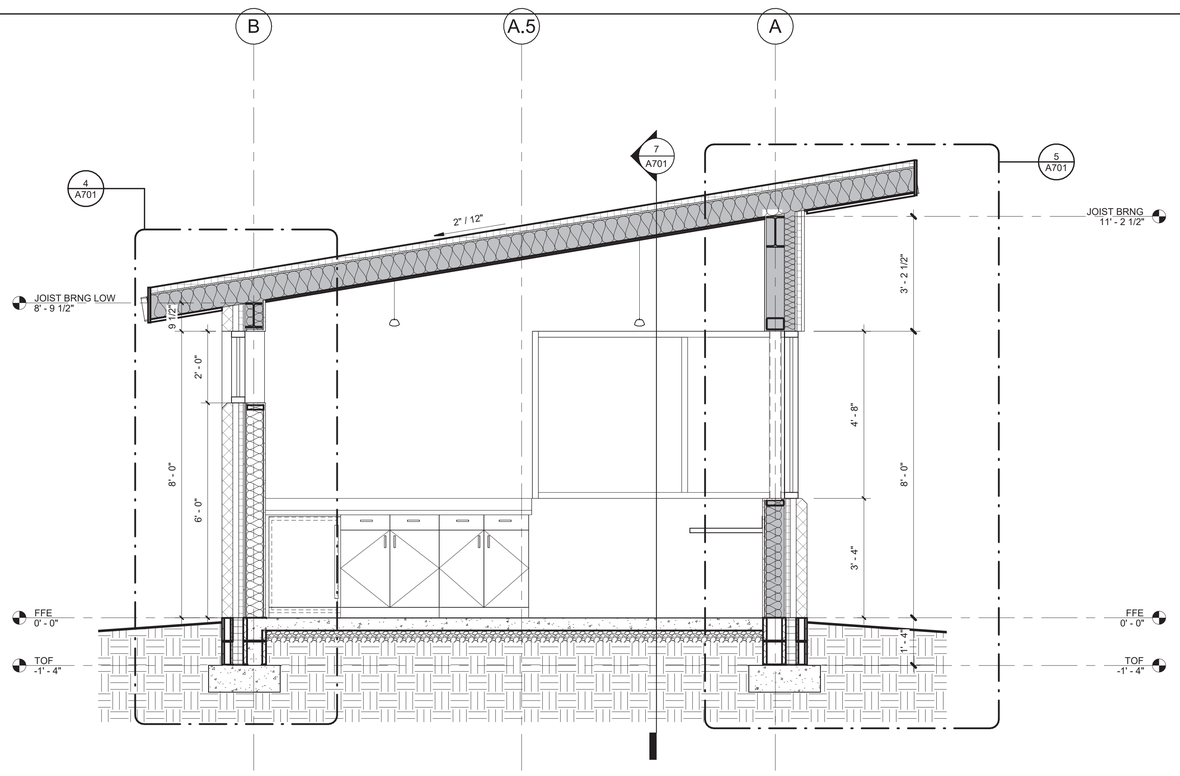
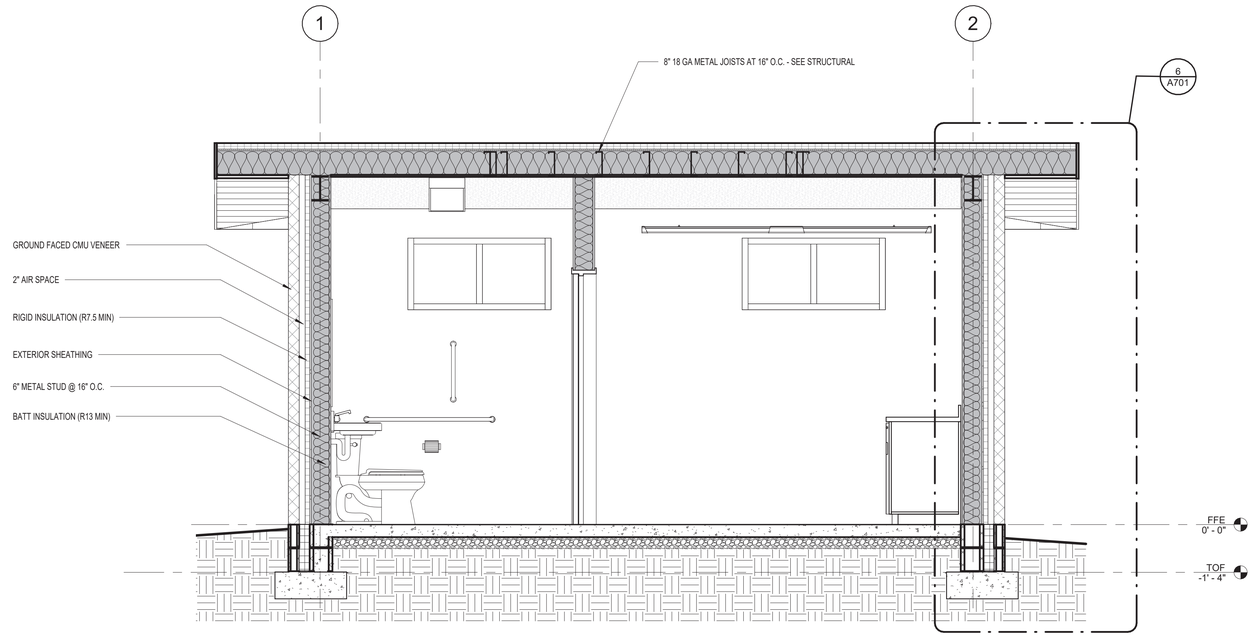
RECORD:
CONTENTS: INTERIOR ELEVATIONS
SHEET: A501



1 BUILDING SECTION (NORTH-SOUTH)
1/2" = 1'-0"



2 BUILDING SECTION (EAST-WEST)
1/2" = 1'-0"

GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

EDMUND J. GONTRAM, III
REGISTERED ARCHITECT
NORTH CAROLINA
RALEIGH, N.C.
11.6.23

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REGISTERED ARCHITECTURAL CORPORATION
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575 ASSEMBLY COURT | FAYETTEVILLE, NC 28306

PLOT DATE: 11/06/2023
ISSUED: NOVEMBER 6, 2023
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Rev.	Date	Description

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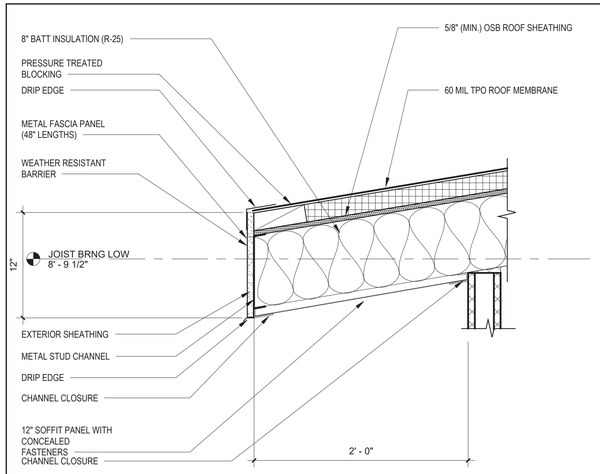
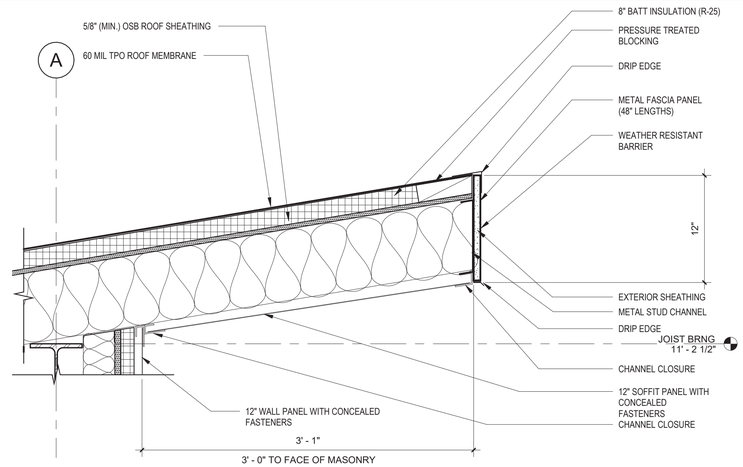
PROJECT NO.: 22003
RECORD:
CONTENTS: BUILDING SECTIONS

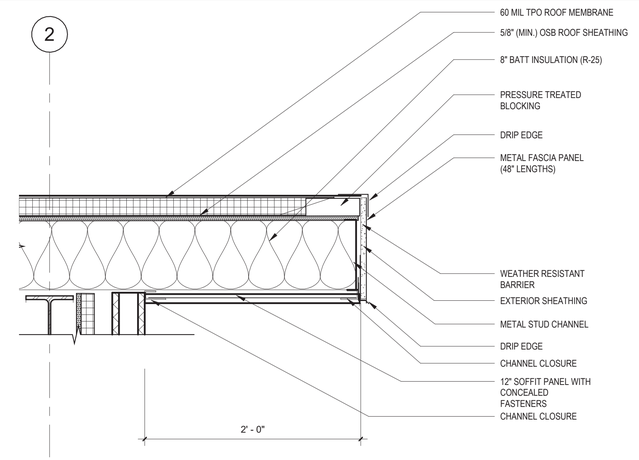
SHEET: A601



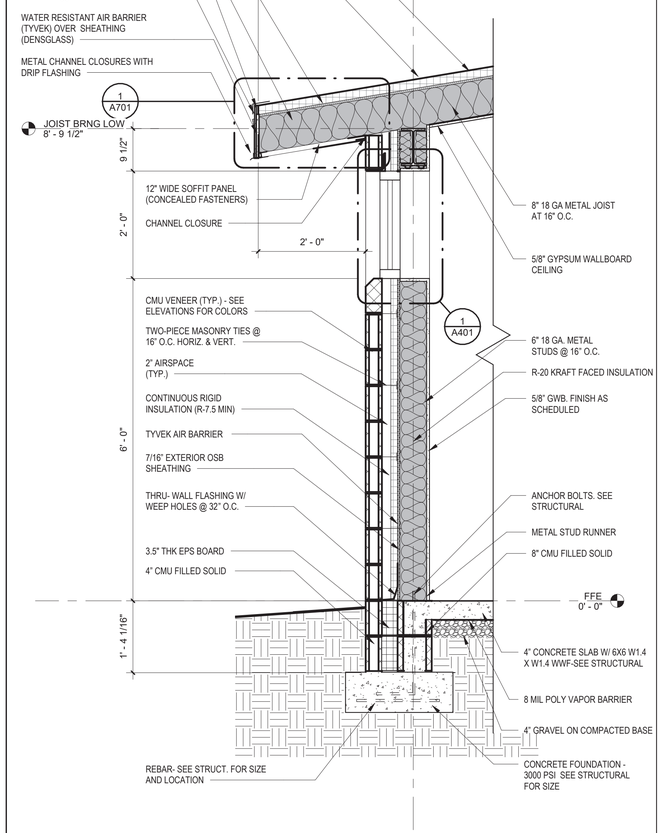
1 ROOF DETAIL-LOW END
1 1/2" = 1'-0"



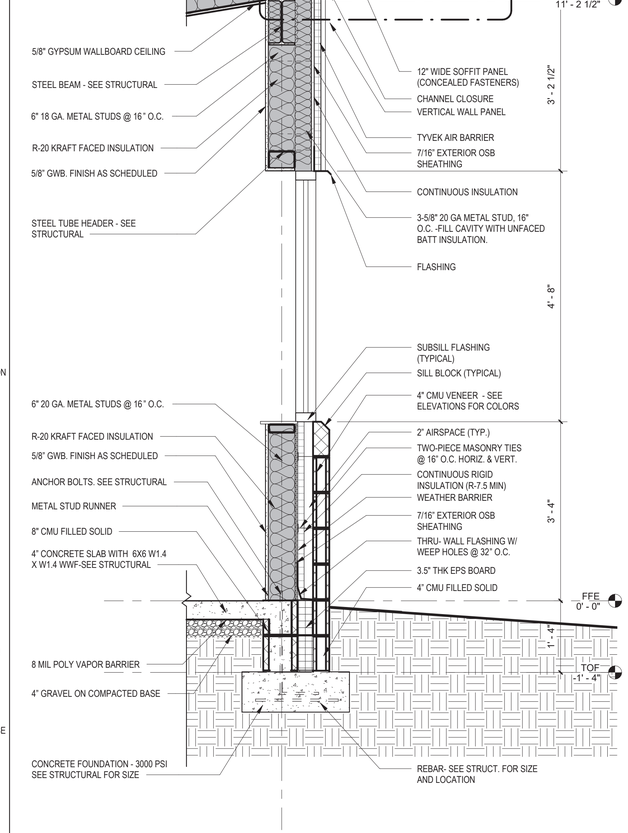
2 ROOF DETAIL-HIGH END
1 1/2" = 1'-0"



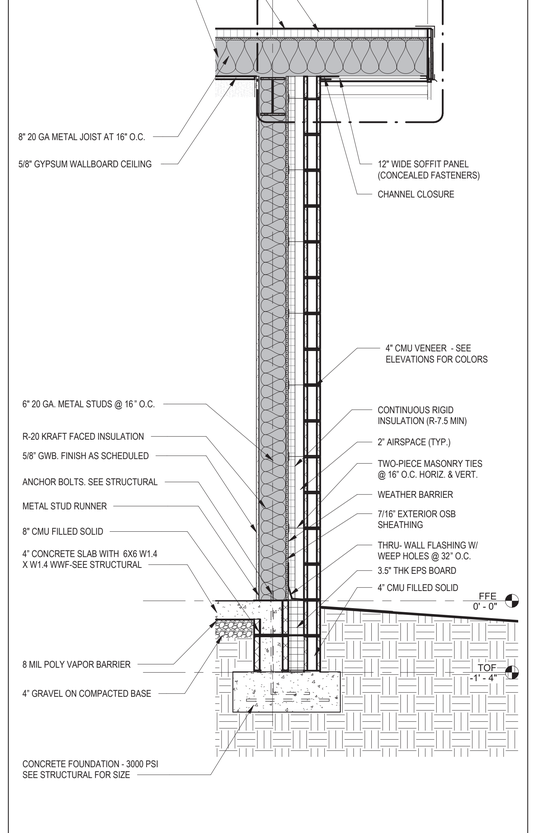
3 ROOF DETAIL - RAKE
1 1/2" = 1'-0"



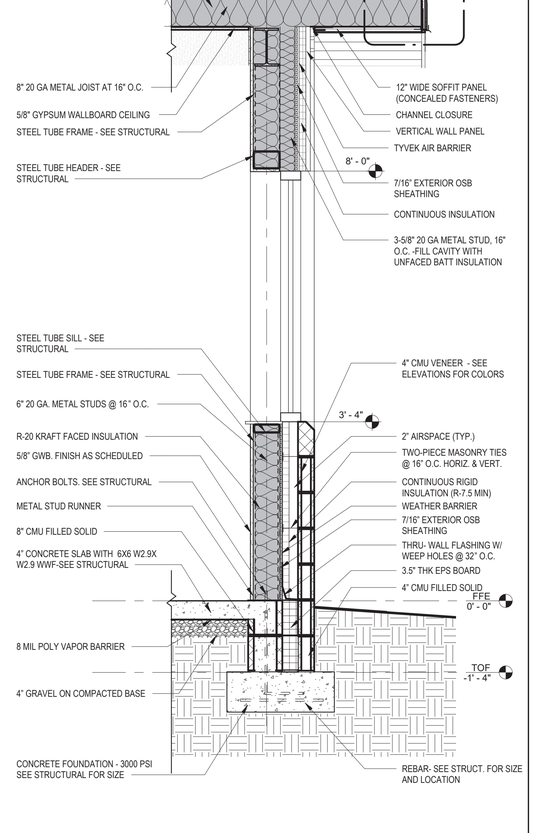
4 WALL SECTION - LOW ROOF EDGE
3/4" = 1'-0"



5 WALL SECTION - HIGH ROOF EDGE
3/4" = 1'-0"



6 WALL SECTION - RAKE SIDE
3/4" = 1'-0"



7 WALL SECTION - RAKE (WINDOW)
3/4" = 1'-0"

GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

EDMUND J. GONTRAM, III REGISTERED ARCHITECT 7477 RALEIGH, N.C. 11.6.23

GONTRAM ARCHITECTURE, INC. CERT. NO. 51355 REGISTERED ARCHITECTURAL CORPORATION NORTH CAROLINA RALEIGH, N.C.

ATTENDANT BUILDING
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575 ASSEMBLY COURT | FAYETTEVILLE, NC 28306

PLOT DATE: 11/06/2023
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Rev.	Date	Description

DRAWN BY: PJA
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PROJECT NO.: 22003
RECORD:
CONTENTS: WALL SECTIONS

SHEET: A701

DIVISION 04 - MASONRY

SECTION 042000
UNIT MASONRY

PART 1 GENERAL

1.01 QUALITY ASSURANCE

A. Comply with provisions of TMS 402/602, except where exceeded by requirements of Contract Documents.

PART 2 PRODUCTS

2.01 CONCRETE MASONRY UNITS

A. Concrete Block: Comply with referenced standards and as follows:
1. Size: Standard units with nominal face dimensions of 16 by 8 inches (400 by 200 mm) and nominal depths as indicated on drawings for specific locations.
2. Load-Bearing Units: ASTM C90, normal weight.

2.02 MORTAR AND GROUT MATERIALS

A. Masonry Cement: ASTM C91/C91M, Type N.

B. Portland Cement: ASTM C150/C150M, Type I; color as required to produce approved color sample.

C. Hydrated Lime: ASTM C207, Type S.

D. Mortar Aggregate: ASTM C144.

E. Grout Aggregate: ASTM C404.

F. Packaged Dry Material for Mortar for Unit Masonry: Premixed masonry cement and mason's sand; complying with ASTM C1714/C1714M and capable of producing mortar of the specified strength in accordance with ASTM C270 with the addition of water only.
1. Type: Type N.
2. Color: Standard gray. (below grade

2.03 REINFORCEMENT AND ANCHORAGE

A. Reinforcing Steel: ASTM A615/A615M, Grade 40 (40,000 psi) (280 MPa), deformed billet bars; galvanized.

B. Single Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Truss or ladder.
2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
3. Size: 0.1483 inch (3.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods; width as required to provide not less than 5/8 inch (16 mm) of mortar coverage on each exposure.

C. Multiple Wythe Joint Reinforcement: ASTM A951/A951M.
1. Type: Truss.
2. Material: ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M Class 3.
3. Size: 0.1483 inch (3.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods; width as required to provide not less than 5/8 inch (16 mm) of mortar coverage on each exposure.

2.04 FLASHINGS

A. Membrane Asphaltic Flashing Materials:

B. Lap Sealants and Tapes: As recommended by flashing manufacturer; compatible with membrane and adhesives.

2.05 ACCESSORIES

A. Preformed Control Joints: Rubber material. Provide with corner and tee accessories, fused joints.

B. Joint Filler: Closed cell polyvinyl chloride; oversized 50 percent to joint width; self expanding; in maximum lengths available.

C. Cavity Mortar Control: Semi-rigid polyethylene or polyester mesh panels, sized to thickness of wall cavity, and designed to prevent mortar droppings from clogging weeps and cavity vents and allow proper cavity drainage.

2.06 MORTAR AND GROUT MIXING

A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
1. Masonry below grade and in contact with earth: Type S.
2. Exterior, loadbearing masonry: Type N.
3. Exterior, non-loadbearing masonry: Type N.

PART 3 EXECUTION

3.01 COURSING

A. Establish lines, levels, and coursing indicated. Protect from displacement.

B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.

C. Concrete Masonry Units:
1. Bond: Running.
2. Coursing: One unit and one mortar joint to equal 8 inches (200 mm).
3. Mortar Joints: Concave.

3.02 PLACING AND BONDING

A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.

B. Lay hollow masonry units with face shell bedding on head and bed joints.

C. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.

3.03 WEEPS/CAVITY VENTS

A. Install weeps in veneer and cavity walls at 32 inches (800 mm) on center horizontally on top of through-wall flashing above shelf angles and lintels and at bottom of walls.

3.04 CAVITY MORTAR CONTROL

A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.

3.05 MASONRY FLASHINGS

A. Whether or not specifically indicated, install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.

B. Terminate flashing up 8 inches (203 mm) minimum on vertical surface of backing:

C. Install flashing in accordance with manufacturer's instructions and BIA Technical Notes No. 7.

D. Extend metal flashings through exterior face of masonry and terminate in an angled drip with hemmed edge. Install joint sealer below drip edge to prevent moisture migration under flashing.

3.06 LINTELS

A. Install loose steel lintels over openings.

END OF SECTION

DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 072700
AIR BARRIERS

PART 1 PRODUCTS

1.01 AIR BARRIER MATERIALS (AIR IMPERMEABLE AND WATER VAPOR PERMEABLE)

A. Air Barrier Sheet, Mechanically Fastened:
1. Air Permeance: 0.004 cfm/sq ft (0.02 L/(s sq m)), maximum, when tested in accordance with ASTM E2178.
2. Water Vapor Permeance: 10 perms (574 ng/(Pa s sq m)), minimum, when tested in accordance with ASTM E96/E96M using Procedure A - Desiccant Method, at 73.4 degrees F (23 degrees C).
3. Ultraviolet (UV) and Weathering Resistance: Approved by manufacturer for up to 90 days of weather exposure.
4. Surface Burning Characteristics: Flame spread index of 25 or less, and smoke developed index of 50 or less, Class A, when tested in accordance with ASTM E84.
5. Seam and Perimeter Tape: Polyethylene self-adhering type, mesh reinforced, 2-1/2 inches (64 mm) wide, compatible with sheet material; unless otherwise indicated.

1.02 ACCESSORIES

A. Sealants, Tapes, and Accessories for Sealing Air Barrier and Adjacent Substrates: As indicated or in compliance with air barrier manufacturer's installation instructions.

B. Flexible Flashing: Self-adhesive sheet flashing complying with ASTM D1970/D1970M, except slip resistance requirement waived if not installed on roof.
1. Width: 4 inches (102 mm).

C. Sill Plate Sealer: Closed-cell foam tape with rubberized adhesive membrane; bridges gap between foundation structure and sill plate or skirt board.
1. Width: 3-1/2 inches (89 mm).

PART 3 EXECUTION

2.01 INSTALLATION

A. Install materials in accordance with manufacturer's installation instructions.

B. Air Barriers: Install continuous airtight barrier over surfaces indicated, with sealed seams and with sealed joints to adjacent surfaces.

C. Apply sealants and adhesives within recommended temperature range in accordance with manufacturer's installation instructions.

D. Mechanically Fastened Sheets - On Exterior:
1. Install sheets shingle fashion to shed water, with seams generally horizontal.

E. Openings and Penetrations in Exterior Air Barriers:
1. Install flashing over sills, covering entire sill frame member, extending at least 5 inches (125 mm) onto air barrier and at least 6 inches (150 mm) up jambs; mechanically fasten stretched edges.

END OF SECTION

SECTION 074213
METAL WALL PANELS

PART 1 GENERAL

1.01 WARRANTY

A. Finish Warranty: Provide 5-year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or flaking. Complete forms in Owner's name and register with warrantor.

PART 2 PRODUCTS

2.01 METAL WALL PANEL SYSTEM

A. Wall Panel System: Factory fabricated prefinished metal panel system, site assembled.
1. Provide exterior wall panels and soffit panels.
2. Design and size components to support assembly dead loads, and to withstand live loads caused by positive and negative wind pressure acting normal to plane of wall.
3. Maximum Allowable Deflection of Panel: L/180 for length(L) of span.
4. Movement: Accommodate movement within system without damage to components or deterioration of seals, movement between system and perimeter components when subject to seasonal temperature cycling; dynamic loading and release of loads; and deflection of structural support framing.
5. Drainage: Provide positive drainage to exterior for moisture entering or condensation occurring within panel system.
6. Fabrication: Formed true to shape, accurate in size, square, and free from distortion or defects; pieces of longest practical lengths.
7. Corners: Factory-fabricated in one continuous piece with minimum 2-inch (51 mm) returns.

B. Exterior Wall Panels:
1. Profile: Vertical; style as indicated.
2. Side Seams: Double-interlocked, tight-fitting, sealed with continuous gaskets.
3. Material: Precoated steel sheet, 22 gauge, 0.0299 inch (0.76 mm) minimum thickness.
4. Panel Width: 12 inches (___ mm).

C. Soffit Panels:
1. Profile: Style as indicated, with venting not provided.
2. Material: Precoated steel sheet, 22 gauge, 0.0299 inch (0.76 mm) minimum thickness.

D. Internal and External Corners: Same material, thickness, and finish as exterior sheets; profile to suit system; shop cut and factory mitered to required angles.

E. Expansion Joints: Same material, thickness and finish as exterior sheets; ___ gauge, ___ inch (___ mm) thick; manufacturer's standard brake formed type, of profile to suit system.

F. Trim: Same material, thickness and finish as exterior sheets; brake formed to required profiles.

G. Anchors: Galvanized steel.

2.02 MATERIALS

A. Precoated Steel Sheet: Hot-dipped galvanized steel sheet, ASTM A653/A653M, Structural Steel (SS) or Forming Steel (FS), with G90/Z275 coating; continuous coil-coated on exposed surfaces with specified finish coating and on panel back with specified panel back coating.

2.03 FINISHES

A. Fluoropolymer Coil Coating System: Polyvinylidene fluoride (PVDF) multi-coat superior performing organic coatings system complying with AAMA 2605, including at least 70 percent PVDF resin, and at least 80 percent of coil coated metal surfaces having minimum total dry film thickness (DFT) of 0.9 mil, 0.0009 inch (0.023 mm); color and gloss as selected by Architect from manufacturer's standard line.

2.04 ACCESSORIES

A. Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, steel, hot dip galvanized. Fastener cap same color as exterior panel.

B. Field Touch-up Paint: As recommended by panel manufacturer.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install panels on walls and soffits in accordance with manufacturer's instructions.

B. Fasten panels to structural supports; aligned, level, and plumb.

END OF SECTION

SECTION 075423
THERMOPLASTIC POLYOLEFIN (TPO) MEMBRANE ROOFING - CARLISLE

PART 1 GENERAL

1.01 WARRANTY

A. Material Warranty: Provide membrane manufacturer's warranty agreeing to replace material that shows manufacturing defects within 10 years after installation.

B. System Warranty: Provide manufacturer's system warranty agreeing to repair or replace roofing that leaks or is damaged due to wind or other natural causes.
1. Warranty Term: 20 years.
2. For repair and replacement include costs of both material and labor in warranty.
3. Include accidental punctures according to the manufacturer's standard warranty terms.
4. Include hail damage according to the manufacturer's standard warranty terms.

PART 2 PRODUCTS

2.01 MANUFACTURER

A. Carlisle SynTec Systems: www.carlisle-syntec.com/#sle.

B. Substitutions: Allowed.

2.02 ROOFING APPLICATIONS

A. TPO Membrane Roofing: One ply membrane, asphalt adhered, over insulation.

B. Roofing Assembly Performance Requirements and Design Criteria:
1. Insulation Thermal Resistance (R-Value): Provide R-Value over entire roof deck in accordance with local building code requirements.

2.03 ROOFING MEMBRANE AND ASSOCIATED MATERIALS

A. Membrane:
1. Material: Thermoplastic Polyolefin (TPO) complying with ASTM D6878/D6878M.
2. Reinforcing: Internal fabric.
3. Thickness: 60 mil (0.060 inch) (1.5 mm), minimum.
4. Sheet Width: Factory fabricated into largest sheets possible.
5. Color: White.
6. Products:
a. Carlisle SynTec Systems; Sure-Weld.

B. Seaming Materials: As recommended by membrane manufacturer.

C. Flexible Flashing Material: Same material as membrane.

D. Base Flashing: Provide waterproof, fully adhered base flashing system at all penetrations, plane transitions, and terminations.

2.04 INSULATION

A. Polyisocyanurate (ISO) Board Insulation: Complies with ASTM C1289, Type II, Class 1 - Faced with glass-reinforced felt on both surfaces of core foam.
1. Grade and Compressive Strength: Grade 2, 20 psi (Grade 2, 138 kPa), minimum.

2.05 ACCESSORIES

A. Prefabricated Flashing Accessories:
1. Corners and Seams: Same material as membrane, in manufacturer's standard thicknesses.
2. Penetrations: Same material as membrane, with manufacturer's standard cut-outs, rigid inserts, clamping rings, and flanges.
3. Sealant Pockets: Same material as membrane, with manufacturer's standard accessories, in manufacturer's standard configuration.
4. Pressure Sensitive Cover Strips: 6 inches (152 mm) wide, 45 mil, 0.045 inch (1.1 mm) thick, non-reinforced TPO membrane laminated to 35 mil, 0.035 inch (0.9 mm) thick cured synthetic rubber with pressure sensitive adhesive.
5. Pressure Sensitive Cover Strips: 6 inches (152 mm) wide, 45 mil, 0.045 inch (1.1 mm) thick, non-reinforced TPO membrane laminated to 35 mil, 0.035 inch (0.9 mm) thick cured synthetic rubber with pressure sensitive adhesive.
6. Miscellaneous Flashing: Non-reinforced TPO membrane; 80 mil, 0.080 inch (2.0 mm) thick, in manufacturer's standard lengths and widths.

B. Insulation Fasteners: Appropriate for purpose intended and approved by roofing manufacturer.

C. Membrane Adhesive: As recommended by membrane manufacturer.

D. Surface Conditioner for Adhesives: Compatible with membrane and adhesives.

E. Sealants: As recommended by membrane manufacturer.

F. Cleaner: Manufacturer's standard, clear, solvent-based cleaner.

G. Edgings and Terminations: Manufacturer's standard edge and termination accessories.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Perform work in accordance with manufacturer's instructions and NRCA (RM) applicable requirements.

B. Do not apply roofing membrane during unsuitable weather.

C. Do not apply roofing membrane when ambient temperature is outside the temperature range recommended by manufacturer.

D. Do not apply roofing membrane to damp or frozen deck surface or when precipitation is expected or occurring.

E. Do not expose materials vulnerable to water or sun damage in quantities greater than can be weatherproofed the same day.

END OF SECTION

SECTION 076200
SHEET METAL FLASHING AND TRIM

PART 1 GENERAL

1.01 QUALITY ASSURANCE

A. Perform work in accordance with SMACNA (ASMM) and CDA A4050 requirements and standard details, except as otherwise indicated.

PART 2 PRODUCTS

2.01 SHEET MATERIALS

A. Pre-Finished Galvanized Steel: ASTM A653/A653M, with G90/Z275 zinc coating; minimum 24-gauge, 0.0239-inch (0.61 mm) thick base metal, shop pre-coated with PVDF coating.
1. Polyvinylidene Fluoride (PVDF) Coating: Superior performing organic powder coating, AAMA 2605; multiple coat, thermally cured fluoropolymer finish system.

2.02 FABRICATION

A. Form sections true to shape, accurate in size, square, and free from distortion or defects.

B. Form pieces in longest possible lengths.

C. Form material with flat lock seams, except where otherwise indicated; at moving joints, use sealed lapped, bayonet-type or interlocking hooked seams.

PART 3 EXECUTION

3.01 INSTALLATION

A. Secure flashings in place using concealed fasteners, and use exposed fasteners only where permitted..

END OF SECTION

DIVISION 08 - OPENINGS

SECTION 081113
HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.01 DELIVERY, STORAGE, AND HANDLING

A. Comply with NAAMM HMMA 840 or ANSI/SDI A250.8 (SDI-100) in accordance with specified requirements.

PART 2 PRODUCTS

2.01 PERFORMANCE REQUIREMENTS

A. Combined Requirements: If a particular door and frame unit is indicated to comply with more than one type of requirement, comply with the specified requirements for each type; for instance, an exterior door that is also indicated as being sound-rated must comply with the requirements specified for exterior doors and for sound-rated doors; where two requirements conflict, comply with the most stringent.

2.02 HOLLOW METAL FRAMES

A. Comply with standards and/or custom guidelines as indicated for corresponding door in accordance with applicable door frame requirements.

B. Frame Finish: Factory primed and field finished.

C. Interior Door Frames, Non-Fire Rated: Knock-down type.
1. Frame Metal Thickness: 18 gauge, 0.042 inch (1.0 mm), minimum.
2. Frame Finish: Factory primed and field finished.

2.03 FINISHES

A. Primer: Rust-inhibiting, complying with ANSI/SDI A250.10, door manufacturer's standard.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install doors and frames in accordance with manufacturer's instructions and related requirements of specified door and frame standards or custom guidelines indicated.

B. Coordinate frame anchor placement with wall construction.

END OF SECTION

SECTION 081416
FLUSH WOOD DOORS

PART 1 GENERAL

1.01 QUALITY ASSURANCE

1.02 WARRANTY

A. Manufacturer Warranty: Provide manufacturer's warranty on interior doors for the life of the installation. Complete forms in Owner's name and register with manufacturer.
1. Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

PART 2 PRODUCTS

2.01 DOORS AND PANELS

A. Doors: See drawings for locations and additional requirements.
1. Quality Standard: Custom Grade, Heavy Duty performance, in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), unless noted otherwise.
2. Wood Veneer Faced Doors: 5-ply or 7-ply unless otherwise indicated.

B. Interior Doors: 1-3/4 inches (44 mm) thick unless otherwise indicated; flush construction.
1. Provide solid core doors at each location.
2. Wood veneer facing for field transparent finish as indicated on drawings.

2.02 DOOR AND PANEL CORES

A. Non-Rated Solid Core and 20 Minute Rated Doors: Type particleboard core (PC), plies and faces as indicated.

2.03 DOOR FACINGS

A. Veneer Facing for Transparent Finish: White birch, veneer grade in accordance with quality standard indicated, plain sliced (flat cut), with book match between leaves of veneer, running match of spliced veneer leaves assembled on door or panel face.
1. Vertical Edges: Any option allowed by quality standard for grade.

2.04 DOOR CONSTRUCTION

A. Fabricate doors in accordance with door quality standard specified.

B. Factory machine doors for hardware other than surface-mounted hardware, in accordance with hardware requirements and dimensions.

C. Factory fit doors for frame opening dimensions identified on shop drawings, with edge clearances in accordance with specified quality standard.
1. Exception: Doors to be field finished.

2.05 FINISHES - WOOD VENEER DOORS

A. Finish work in accordance with AWI/AWMAC/WI (AWS) or AWMAC/WI (NAAWS), Section 5 - Finishing for grade specified and as follows:
1. Transparent:
a. System - 12, Polyurethane, Water-based.
b. Stain: As selected by Architect.
c. Sheen: Satin.

B. Seal door top edge with color sealer to match door facing.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install doors in accordance with manufacturer's instructions and specified quality standard.

B. Coordinate installation of doors with installation of frames and hardware.

END OF SECTION

SECTION 084313
ALUMINUM-FRAMED STOREFRONTS

PART 1 GENERAL

PART 2 PRODUCTS

2.01 ALUMINUM-FRAMED STOREFRONT

A. Aluminum-Framed Storefront: Factory fabricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment devices.
1. Glazing Position: Centered (front to back).
2. Finish: Superior performing organic coatings.
a. Factory finish all surfaces that will be exposed in completed assemblies.
b. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.
3. Finish Color: As indicated on drawings.
4. Fabrication: Joints and corners flush, hairline, and weatherproof, accurately fitted and secured; prepared to receive anchors and hardware; fasteners and attachments concealed from view; reinforced as required for imposed loads.
5. Construction: Eliminate noises caused by wind and thermal movement, prevent vibration harmonics, and prevent "stack effect" in internal spaces.
6. System Internal Drainage: Drain to the exterior by means of a weep drainage network any water entering joints, condensation occurring in glazing channel, and migrating moisture occurring within system.

B. Performance Requirements
1. Wind Loads: Design and size components to withstand the specified load requirements without damage or permanent set, when tested in accordance with ASTM E330/E330M, using loads 1.5 times the design wind loads and 10 second duration of maximum load.
a. Member Deflection: Limit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.
2. Air Leakage: 0.06 cfm/sq ft (0.3 L/sec sq m) maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf (75 Pa) pressure difference.
3. Air Leakage: 0.06 cfm/sq ft (0.3 L/sec sq m) maximum leakage of storefront wall area when tested in accordance with ASTM E283/E283M at 1.57 psf (75 Pa) pressure difference.

2.02 COMPONENTS

A. Aluminum Framing Members: Tubular aluminum sections, thermally broken with interior section insulated from exterior, drainage holes and internal weep drainage system.
1. Glazing Stops: Flush.

B. Swing Doors: Glazed aluminum.
1. Thickness: 1-3/4 inches (43 mm).
2. Top Rail: 4 inches (100 mm) wide.
3. Vertical Stiles: 4-1/2 inches (115 mm) wide.
4. Bottom Rail: 10 inches (254 mm) wide.
5. Glazing Stops: Square.
6. Finish: Same as storefront.

2.03 MATERIALS

A. Extruded Aluminum: ASTM B221 (ASTM B221M).

B. Fasteners: Stainless steel.

2.04 FINISHES

A. Class I Natural Anodized Finish: AAMA 611 AA-M12C22A41 Clear anodic coating not less than 0.7 mils (0.018 mm) thick.

2.05 HARDWARE

A. For each door, include weatherstripping, sill sweep strip, and threshold.

B. Weatherstripping: Wool pile, continuous and replaceable; provide on all doors.

C. Sill Sweep Strips: Resilient seal type, retracting, of neoprene; provide on all doors.

D. Threshold: Extruded aluminum, one piece per door opening, ribbed surface; provide on all doors.

E. Hinges: Butt type, swing clear; top and bottom.

F. Push/Pull Set: Standard configuration push/pull handles.

G. Door Closers: Exposed overhead.

H. Locks: Dead latch with turn handle inside ; keyed cylinder outside.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install wall system in accordance with manufacturer's instructions.

B. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.

C. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

END OF SECTION

SECTION 087100
DOOR HARDWARE

PART 1 GENERAL

1.01 ADMINISTRATIVE REQUIREMENTS

A. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware.

B. Keying Requirements Meeting:
1. Attendance Required:
2. Agenda:
3. Incorporate "Keying Requirements Meeting" decisions into keying submittal upon review of door hardware keying system including, but not limited to, the following:

1.02 WARRANTY

A. Manufacturer's Warranty: Provide warranty against defects in material and workmanship for period indicated. Complete forms in Owner's name and register with manufacturer.
1. Closers: Five years, minimum.
2. Locksets and Cylinders: Three years, minimum.
3. Other Hardware: Two years, minimum.

PART 2 PRODUCTS

2.01 DESIGN AND PERFORMANCE CRITERIA

A. Provide specified door hardware as required to make doors fully functional, compliant with applicable codes, and secure to extent indicated.

B. Provide door hardware products that comply with the following requirements:
1. Applicable provisions of federal, state, and local codes.
2. Hardware Preparation for Wood Doors with Wood or Steel Frames: BHMA A156.115W.

C. Fasteners:
1. Provide fasteners of proper type, size, quantity, and finish that comply with commercially recognized standards for proposed applications.

2.02 HINGES

A. Hinges: Comply with BHMA A156.1, Grade 1.
1. Provide hinges on every swinging door.
2. Provide five-knuckle full mortise butt hinges unless otherwise indicated.
3. Provide ball-bearing hinges at each door with closer.
4. Provide non-removable pins on exterior outswinging doors.
5. Provide following quantity of butt hinges for each door:
a. Doors up to 60 inches (1.5 m) High: Two hinges.
b. Doors From 60 inches (1.5 m) High up to 90 inches (2.3 m) High: Three hinges.
c. Doors 90 inches (2.3 m) High up to 120 inches (3 m) High: Four hinges.
d. Doors over 120 inches (3 m) High: One additional hinge per each additional 30 inches (762 mm) in height.

2.03 LOCK CYLINDERS

A. Lock Cylinders: Provide key access on outside of each lock, unless otherwise indicated.
1. Provide cylinders from same manufacturer as locking device.
2. Provide cams and/or tailpieces as required for locking devices.

2.04 CYLINDRICAL LOCKS

A. Cylindrical Locks (Bored): Comply with BHMA A156.2, Grade 1, 4000 Series.
1. Bored Hole: 2-1/8 inch (54 mm) diameter.
2. Latchbolt Throw: 1/2 inch (12.7 mm), minimum.
3. Backset: 2-3/4 inch (70 mm) unless otherwise indicated.
4. Strikes: Provide manufacturer's standard strike for each latchset or lockset with strike box and curved lip extending to protect frame in compliance with indicated requirements.
a. Finish: To match lock or latch.
5. Provide a lock for each door, unless otherwise indicated that lock is not required.

2.05 CLOSERS

A. Closers: Comply with BHMA A156.4, Grade 1.
1. Type: Surface mounted to door.
2. Provide door closer on each exterior door.

2.06 WALL STOPS

2.07 FINISHES

A. Finishes: Provide door hardware of same finish, unless otherwise indicated.
1. Primary Finish: 625; bright chromium plated over nickel, with brass or bronze base material (former US equivalent US26); BHMA A156.18.
2. Secondary Finish: 626; satin chromium plated over nickel, with brass or bronze base material (former US equivalent US26D); BHMA A156.18.
a. Use secondary finish in kitchens, bathrooms, and other spaces containing chrome or stainless steel finished appliances, fittings, and equipment; provide primary finish on one side of door and secondary finish on other side if necessary.
3. Exceptions:
a. Where base material metal is specified to be different, provide finish that is an equivalent appearance in accordance with BHMA A156.18.
b. Hinges for Fire-Rated Doors: Steel base material with painted finish, in compliance with NFPA 80.
c. Door Closer Covers and Arms: Color as selected by Architect from manufacturer's standard colors unless otherwise indicated.
d. Aluminum Surface Trim and Gasket Housings: Anodized to match door panel finish, not other hardware, unless otherwise indicated.
e. Hardware for Aluminum Entrance Doors: Finished to match door panel finish, except at hand contact surfaces provide stainless steel with satin finish, unless otherwise indicated.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Use templates provided by hardware item manufacturer.

3.02 ADJUSTING

A. Adjust hardware for smooth operation.

END OF SECTION

DIVISION 09 - FINISHES

GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

EDMUND J. GONTRAM III
REGISTERED ARCHITECT
RALEIGH, NC
11-6-23

GONTRAM ARCHITECTURE, INC
CERT. NO. 51355
REGISTERED PROFESSIONAL CORPORATION
NORTH CAROLINA
RALEIGH, N.C.

ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE, NC 28306

PLOT DATE: 11/06/23
ISSUED: NOVEMBER 6, 2023
FOR CONSTRUCTION

Rev.	Date	Description

DRAWN BY: Author | APPROVED: EJG
PROJECT NO.: 22003 | RECORD:
CONTENTS: SPECIFICATIONS

SHEET: AS-001

SECTION 092116
GYPSUM BOARD ASSEMBLIES

PART 1 GENERAL

PART 2 PRODUCTS

2.01 GYPSUM BOARD ASSEMBLIES

A. Provide completed assemblies complying with ASTM C840 and GA-216.

B. Interior Partitions, Indicated as Acoustic: Provide completed assemblies with the following characteristics:
1. Acoustic Attenuation: STC of 45-49 calculated in accordance with ASTM E413, based on tests conducted in accordance with ASTM E90.

2.02 METAL FRAMING MATERIALS

A. Steel Sheet: ASTM A1003/A1003M, subject to the ductility limitations indicated in AISI S220 or equivalent.

B. Nonstructural Framing System Components: AISI S220; galvanized sheet steel, of size and properties necessary to comply with ASTM C754 for the spacing indicated, with maximum deflection of wall framing of L/120 at 5 psf (L/120 at 240 Pa).
1. Studs: C-shaped with knurled or embossed faces.
2. Runners: U shaped, sized to match studs.

2.03 BOARD MATERIALS

A. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Use for vertical surfaces and ceilings, unless otherwise indicated.
2. Thickness:

B. Ceiling Board: Special sag resistant gypsum ceiling board as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
1. Application: Ceilings, unless otherwise indicated.
2. Thickness: 1/2 inch (13 mm).
3. Edges: Tapered.

2.04 GYPSUM BOARD ACCESSORIES

PART 3 EXECUTION

3.01 FRAMING INSTALLATION

A. Metal Framing: Install in accordance with ASTM C1007AISI S220 and manufacturer's instructions.

3.02 ACOUSTIC ACCESSORIES INSTALLATION

A. Acoustic Insulation: Place tightly within spaces, around cut openings, behind and around electrical and mechanical items within partitions, and tight to items passing through partitions.

3.03 BOARD INSTALLATION

A. Comply with ASTM C840, GA-216, and manufacturer's instructions. Install to minimize butt end joints, especially in highly visible locations.

B. Single-Layer Nonrated: Install gypsum board in most economical direction, with ends and edges occurring over firm bearing.

C. Installation on Metal Framing: Use screws for attachment of gypsum board except face layer of nonrated double-layer assemblies, which may be installed by means of adhesive lamination.

3.04 JOINT TREATMENT

A. Paper Faced Gypsum Board: Use paper joint tape, embed with drying type joint compound and finish with drying type joint compound.

B. Finish gypsum board in accordance with levels defined in ASTM C840, as follows:
1. Level 4: Walls and ceilings to receive paint finish or wall coverings, unless otherwise indicated.
2. Level 1: Fire-resistance-rated wall areas above finished ceilings, whether or not accessible in the completed construction.

END OF SECTION

SECTION 096500
RESILIENT FLOORING

PART 1 GENERAL

PART 2 PRODUCTS

2.01 TILE FLOORING

A. Vinyl Composition Tile - ____: Homogeneous, with color extending throughout thickness.
1. Minimum Requirements: Comply with ASTM F1066, of Class corresponding to type specified.
2. Size: 12 by 12 inch (305 by 305 mm).
3. Thickness: 0.125 inch (3.2 mm).
4. Color: To be selected by Architect from manufacturer's full range.

2.02 RESILIENT BASE

A. Resilient Base: ASTM F1861, Type TS, rubber, vulcanized thermoset; style as scheduled.
1. Height: 4 inches (100 mm).
2. Thickness: 0.125 inch (3.2 mm).
3. Finish: Satin.
4. Length: Roll.
5. Color: To be selected by Architect from manufacturer's full range.

2.03 ACCESSORIES

A. Primers, Adhesives, and Seam Sealer: Waterproof; types recommended by flooring manufacturer.

B. Moldings, Transition and Edge Strips: Same material as flooring.

PART 3 EXECUTION

3.01 INSTALLATION - GENERAL

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

3.02 INSTALLATION - TILE FLOORING

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

B. Lay flooring with joints and seams parallel to building lines to produce symmetrical pattern.

3.03 INSTALLATION - RESILIENT BASE

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches (45 mm) between joints.

END OF SECTION

SECTION 099123
INTERIOR PAINTING

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Scope: Finish interior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated.

B. Do Not Paint or Finish the Following Items:
1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory finished.
2. Items indicated to receive other finishes.
3. Items indicated to remain unfinished.
4. Fire rating labels, equipment serial number and capacity labels, bar code labels, and operating parts of equipment.
5. Floors, unless specifically indicated.
6. Glass.
7. Concealed pipes, ducts, and conduits.

PART 2 PRODUCTS

2.01 PAINTS AND FINISHES - GENERAL

A. Paints and Finishes: Ready-mixed, unless intended to be a field-catalyzed paint.
1. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
2. Supply each paint material in quantity required to complete entire project's work from a single production run.
3. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.

2.02 PAINT SYSTEMS - INTERIOR

A. Paint I-OP - Interior Surfaces to be Painted, Unless Otherwise Indicated: Including gypsum board, uncoated steel, shop primed steel, and galvanized steel.
1. Two top coats and one coat primer.
2. Top Coat Sheen:
a. Eggshell: MPI gloss level 3; use this sheen at all locations.
b. Satin: MPI gloss level 4; use this sheen for items subject to frequent touching by occupants, including door frames and railings.

B. Paint I-OP-MD-DT - Medium Duty Door/Trim: For surfaces subject to frequent contact by occupants, including metals and wood:
1. Two top coats and one coat primer.
2. Top Coat(s): High Performance Architectural Interior Latex; MPI #138, 139, 140, or 141.
3. Top Coat Sheen:

PART 3 EXECUTION

3.01 EXAMINATION

A. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:
1. Gypsum Wallboard: 12 percent.
2. Interior Wood: 15 percent, measured in accordance with ASTM D4442.

3.02 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.03 APPLICATION

A. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".

B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.

END OF SECTION

DIVISION 10 - SPECIALTIES

SECTION 102800
TOILET, BATH, AND LAUNDRY ACCESSORIES

PART 2 PRODUCTS

1.01 MANUFACTURERS

1.02 MATERIALS

A. Accessories - General: Shop assembled, free of dents and scratches and packaged complete with anchors and fittings, steel anchor plates, adapters, and anchor components for installation.

B. Mirror Glass: Annealed float glass, ASTM C1036 Type I, Class 1, Quality Q2, with silvering, protective and physical characteristics complying with ASTM C1503.

1.03 FINISHES

A. Stainless Steel: Satin finish, unless otherwise noted.

B. Chrome/Nickel Plating: ASTM B456, SC 2, polished finish, unless otherwise noted.

1.04 COMMERCIAL TOILET ACCESSORIES

A. Toilet Paper Dispenser: Double roll, surface mounted bracket type, stainless steel, spindleless type for tension spring delivery designed to prevent theft of tissue roll.

B. Paper Towel Dispenser: Folded paper type, stainless steel, surface-mounted, with viewing slots on sides as refill indicator and tumbler lock.
1. Capacity: 300 C-fold minimum.

C. Mirrors: Stainless steel framed, 1/4 inch (6 mm) thick annealed float glass; ASTM C1036.

D. Grab Bars: Stainless steel, smooth surface.
1. Standard Duty Grab Bars:
a. Push/Pull Point Load: 250 pound-force (1112 N), minimum.
b. Dimensions: 1-1/4 inch (32 mm) outside diameter, minimum 0.05 inch (1.3 mm) wall thickness, exposed flange mounting, 1-1/2 inch (38 mm) clearance between wall and inside of grab bar.
c. Length and Configuration: As indicated on drawings.

PART 3 EXECUTION

2.01 INSTALLATION

A. Install accessories in accordance with manufacturers' instructions in locations indicated on drawings.

B. Install plumb and level, securely and rigidly anchored to substrate.

C. Mounting Heights: As required by accessibility regulations, unless otherwise indicated.

END OF SECTION

GONTRAM ARCHITECTURE, INC.
5100 UNICON DR. SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

EDMUND J. GONTRAM, III
REGISTERED ARCHITECT
RALEIGH, N.C.
11-6-23

GONTRAM ARCHITECTURE, INC.
CERT. NO. 51355
RALEIGH, N.C.

ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
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PLOT DATE: 11/06/23
ISSUED: NOVEMBER 6, 2023
FOR CONSTRUCTION

Rev.	Date	Description

DRAWN BY: Author
APPROVED: EJG
PROJECT NO.: 22003
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SHEET: AS-002

STRUCTURAL NOTES

I. GENERAL

1. DESIGN CODES

NORTH CAROLINA BUILDING CODE, 2018 EDITION
(AMENDED 2015 INTERNATIONAL BUILDING CODE)

ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
(ACI 318-14)

AISC MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN
NINTH EDITION

ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER
STRUCTURES

2. DESIGN LOADS

RISK CATEGORY II

LIVE LOADS: FIRST FLOOR: 100 PSF
ROOF: 20 PSF

ULTIMATE DESIGN WIND SPEED: 122 MPH

GROUND SNOW LOAD 10 PSF

SEISMIC DESIGN CATEGORY C
SITE CLASS D
Ss = 0.234
S1 = 0.100

3. ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION OF 0'-0". SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

4. DETAILED SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. STRUCTURAL STEEL SHOP DRAWINGS SHALL REQUIRE APPROVAL PRIOR TO FABRICATION.

5. ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY.

6. ROSS LINDEN ENGINEERS PC ASSUMES NO LIABILITY FOR CHANGES OR MODIFICATIONS MADE TO THESE DRAWINGS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THESE DRAWINGS.

II. CONCRETE

1. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL HAVE THE FOLLOWING STRENGTH AND SLUMP REQUIREMENTS:
3,500 PSI 28-DAY COMPRESSIVE STRENGTH, MAX. 5" SLUMP.

2. ALL CONCRETE SHALL BE MOIST CURED PER ACI 301 OR CURED WITH AN APPROVED CURING COMPOUND. CONTRACTOR SHALL VERIFY THAT THE CURING COMPOUND IS COMPATIBLE WITH FLOOR COVERING ADHESIVES, COATINGS, OR TOPPINGS TO BE USED. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS.

3. UNLESS OTHERWISE NOTED, ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A-615, GRADE 60, DEFORMED.

4. UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION, AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES. (ACI 315)

5. ALL BAR SPLICES SHALL BE CLASS "B" TENSION SPLICES PER ACI 318-14, UNLESS OTHERWISE SHOWN.

6. ANCHOR BOLTS TO BE ASTM A36 OR A307.

7. CONTRACTOR SHALL REFER TO DRAWINGS OF OTHER TRADES AND VENDOR DRAWINGS FOR EMBEDDED ITEMS AND RECESSES NOT SHOWN ON THE STRUCTURAL DRAWINGS.

8. A GEOTECHNICAL REPORT BY GEOTECHNOLOGIES DATED 27 JULY 2023 HAS BEEN USED AS THE BASIS OF THIS DESIGN. ALL SPREAD FOOTINGS ARE DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF 3,000 PSF. A GEOTECHNICAL REPRESENTATIVE SHALL INSPECT ALL FOOTING EXCAVATIONS TO CONFIRM ALLOWABLE BEARING PRESSURES.

9. PROVIDE TWO (2) #5 x 4'-0" LONG DIAGONAL BARS IN TOP FACE OF ALL SLABS (1" CLEAR) AT ALL RE-ENTRANT CORNERS.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING, AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE WORK SITE.

11. CONTRACTOR SHALL VERIFY ALL SIZES AND LOCATIONS OF ALL MECHANICAL AND ELECTRICAL OPENINGS AND EQUIPMENT PADS WITH THE MECHANICAL AND ELECTRICAL DETAILS AND SHOP DRAWINGS BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL OPENINGS AND SLEEVES FOR PROPER DISTRIBUTION FOR ALL UTILITIES THROUGHOUT THE BUILDING.

12. ALL DOWELS WHICH ARE TO BE DRILLED AND GROUTED INTO EXISTING CONCRETE SHALL BE DONE WITH AN EPOXY GROUT. DRILL HOLE WITH DIAMETER 1/8" LARGER THAN DOWEL OR AS RECOMMENDED BY GROUT SUPPLIER. USE HIT-RE 500 V3 BY HILTI OR APPROVED EQUAL.

III. MASONRY

1. MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530.1-13/ASCE 6-13: "SPECIFICATION FOR MASONRY STRUCTURES."

2. ASSUMED MASONRY PROPERTIES: UNIT COMPRESSIVE STRENGTH 1900 PSI, TYPE S MORTAR, PARTIAL GROUT, RUNNING BOND.

IV. STRUCTURAL STEEL

1. SEE FRAMING PLANS FOR BOTTOM OF BASE PLATE ELEVATIONS.

2. ALL STRUCTURAL STEEL WIDE FLANGE BEAMS AND COLUMNS, UNLESS NOTED, SHALL CONFORM TO THE REQUIREMENTS OF ASTM A992 OR ASTM A572, GRADE 50. ANGLES AND CHANNELS SHALL CONFORM TO ASTM A36. TUBES SHALL CONFORM TO ASTM A500, GRADE B.

3. ALL DETAILING, FABRICATION, AND ERECTION OF STRUCTURAL STEEL, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SPECIFICATIONS FOR BUILDINGS, LATEST EDITION.

4. UNLESS OTHERWISE NOTED, ALL SHOP CONNECTIONS SHALL BE MADE BY WELDING OR HIGH STRENGTH BOLTING. (3/4" DIAMETER BOLTS, MINIMUM)

5. WELDS SHALL BE MADE WITH E-70XX ELECTRODES BY CERTIFIED WELDERS.

6. UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER HIGH STRENGTH BOLTS (ASTM A-325). CONNECTIONS SHALL BE DESIGNED AS BEARING TYPE WITH THREADS IN SHEAR PLANE. BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION PER "AISC" UNLESS NOTED OTHERWISE ON THE DRAWINGS.

7. UNLESS OTHERWISE SHOWN, ALL BEAM CONNECTIONS SHALL BE STANDARD FRAMED OR SEATED CONNECTIONS AS SHOWN IN PART 10 OF THE AISC MANUAL OF STEEL CONSTRUCTION. UNLESS REACTIONS ARE INDICATED ON THE DRAWINGS, CONNECTIONS SHALL DEVELOP AT LEAST ONE-HALF OF THE TOTAL UNIFORM LOAD CAPACITY TABULATED IN THE TABLES OF THE MANUAL FOR THE GIVEN SHAPE AND SPAN OF THE BEAM IN QUESTION. IN NO CASE, HOWEVER, SHALL THE LENGTH OF THE FRAMED CONNECTIONS BE LESS THAN ONE-HALF OF THE "T" DISTANCE OF THE BEAM WEB.

8. GUSSET PLATES SHALL BE 3/8" THICK MINIMUM.

9. ALL COLUMN ANCHOR BOLT HOLES TO BE OVERSIZED IN ACCORDANCE WITH RECOMMENDATIONS OF "AISC" MANUAL FOR "DETAILING FOR STEEL CONSTRUCTION."

10. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL BRACING CONNECTIONS SHALL BE DESIGNED AND DETAILED SO THAT ALL FORCE COMPONENTS CAN BE DELIVERED DIRECTLY TO THE CENTERLINE OF INTERSECTING MEMBERS. ALTERNATELY, CONNECTIONS SHALL BE DESIGNED TO ACCOUNT FOR RESULTING ECCENTRICITIES.

11. CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATIONS ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND THEREFORE REQUIRES ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.

V. LIGHT GAUGE STEEL FRAMING

1. INSTALLATION OF LIGHT GAUGE STEEL FRAMING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2. WALL STUDS SHALL HAVE THE FOLLOWING PROPERTIES:
16" MAX. SPACING
STUD DEPTH = 6"
FLANGE WIDTH = 1 5/8"
18 GAUGE STEEL

3. PROVIDE MIN. 18 GA. BOTTOM TRACK AND ANCHOR TO SLAB WITH POWDER ACTUATED FASTENERS AT 16" O.C.

4. SEE ARCH. DWGS. FOR WALL FINISH MATERIALS. PROVIDE GYPSUM BOARD ON ALL INTERIOR WALLS (MINIMUM 1/2"). FASTEN ALL PANELS WITH 1 1/4" SCREWS AT 7" o.c. AT TOP AND BOTTOM PLATES AND ALL STUDS FOR INTERIOR SIDE OF EXTERIOR WALLS, AND 12" o.c. AT TOP AND BOTTOM PLATES AND ALL STUDS FOR ALL OTHER WALLS. GYPSUM SHALL BE APPLIED PERPENDICULAR TO FRAMING.

5. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH MINIMUM 7/16" WOOD STRUCTURAL SHEATHING (PLYWOOD -or- OSB) WITH BLOCKING AT ALL JOINTS. FASTEN ALL PANELS WITH SCREWS AT 3" o.c. AT ALL EDGES AND AT 6" o.c. AT INTERMEDIATE FRAMING.

6. SEE TYPICAL WALL SECTION FOR ADDITIONAL INFORMATION.

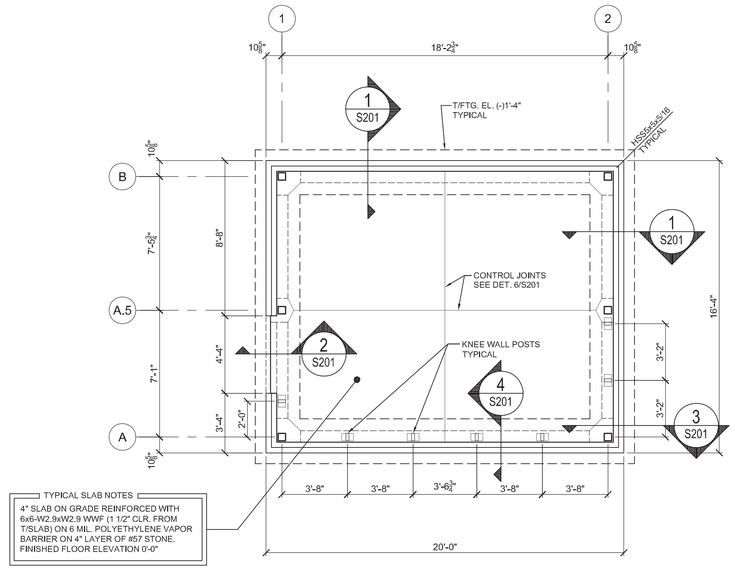
7. DETAILED SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

VI. WOOD

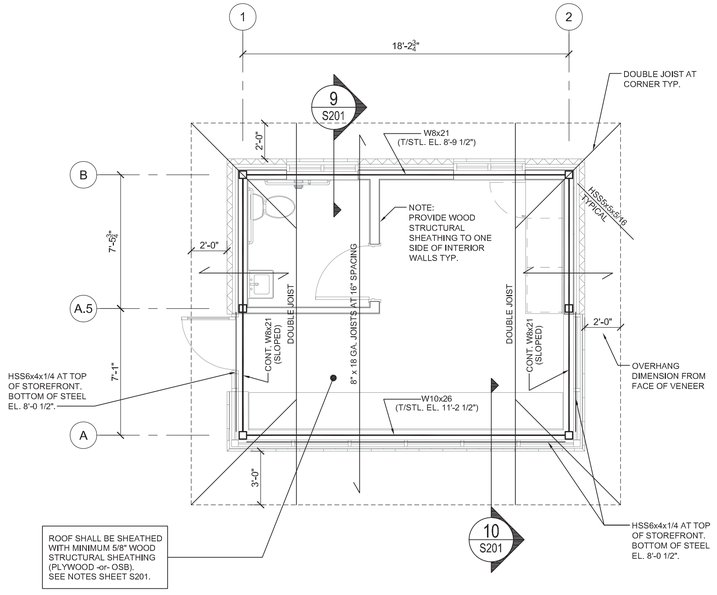
1. ALL EXTERIOR WALLS SHALL BE SHEATHED WITH MINIMUM 7/16" SHEATHING WITH BLOCKING AT ALL JOINTS. FASTEN ALL PANELS WITH SCREWS AT 4" o.c. AT ALL EDGES AND AT 8" o.c. AT INTERMEDIATE FRAMING. ORIENT PANEL EDGE PARALLEL WITH FRAMING.

2. PROVIDE MINIMUM 1/2" GYPSUM BOARD ON BOTH SIDES OF FULL-HEIGHT INTERIOR WALLS WITH INTERMEDIATE SUPPORT AT ALL JOINTS. FASTEN ALL PANELS WITH 1 1/4" SCREWS AT 7" o.c. AT TOP AND BOTTOM PLATES AND ALL STUDS. GYPSUM SHALL BE APPLIED PERPENDICULAR TO FRAMING.

3. ROOF FRAMING SHALL BE SHEATHED WITH MINIMUM 5/8" WOOD STRUCTURAL SHEATHING (PLYWOOD -or- OSB). PROVIDE PLYWOOD EDGE CLIPS BETWEEN PANELS.



1 S101 SLAB AND FOUNDATION PLAN
1/4" = 1'-0"



2 S101 ROOF FRAMING PLAN
1/4" = 1'-0"

GONTRAM ARCHITECTURE, INC.

NORTH CAROLINA PROFESSIONAL SEAL 25539 ENGINEER BRIAN M. ROSS 11-7-2023
SEAL NOT VALID UNLESS SIGNED AND DATED

ROSS LINDEN ENGINEERS PC
709 W. JONES STREET RALEIGH, NC 27603
TEL 919.832.3680 FAX 919.832.3675
WWW.ROSSLINDEN.COM NC LICENSE NO. C-2364

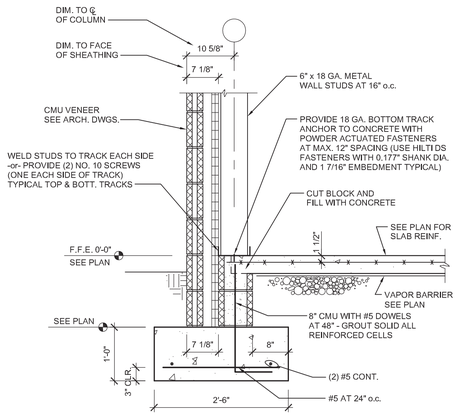
ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE NC 28306

PLOT DATE: 11/2/2023
ISSUED: 11/2/2023 FOR PERMIT

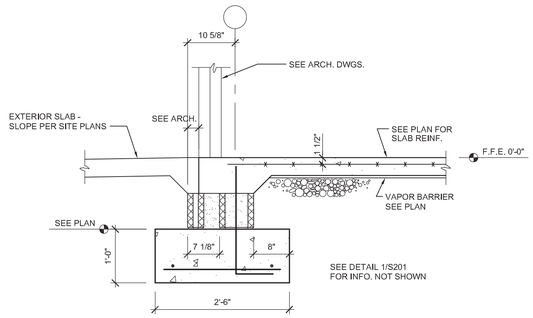
DRAWN BY: BR | APPROVED: SS/EG
PROJECT NO.: C230704 | RECORD:

CONTENTS: FOUNDATION AND FRAMING PLANS

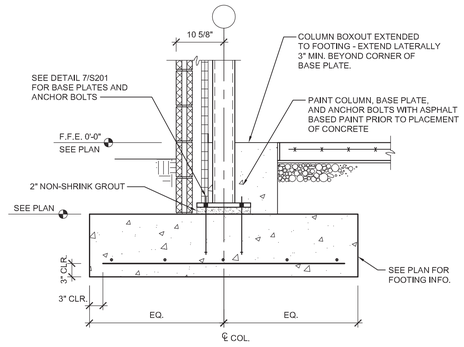
SHEET: S101



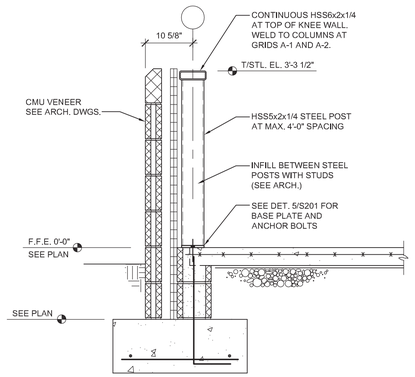
1 S201 DETAIL - PERIMETER FOOTING
3/4" = 1'-0"



2 S201 DETAIL - SLAB EDGE AT DOORS
3/4" = 1'-0"



3 S201 DETAIL - COLUMN FOOTING
3/4" = 1'-0"



4 S201 DETAIL - KNEE WALL
3/4" = 1'-0"

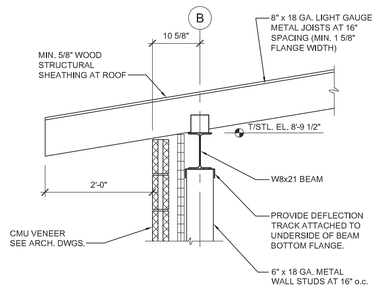
5 S201 POST BASE PLATE
1 1/2" = 1'-0"

NOTES: 1. SAW JOINTS AS SOON AS CONCRETE WILL NOT RAVEL UNDER SAW BLADE.
2. ADD 20" LONG SMOOTH DOWELS AT ALL CONSTRUCTION JOINTS.

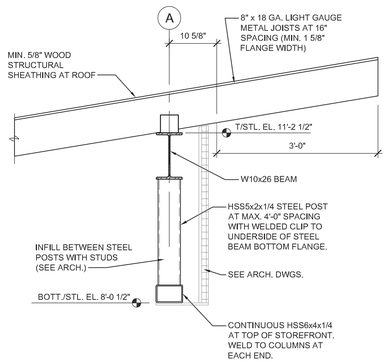
6 S201 DETAIL - TYP. SLAB CONTROL JOINT
1" = 1'-0"

7 S201 BASE PLATE DETAIL
1 1/2" = 1'-0"

8 S201 TYP. ANCHOR BOLT DETAIL
NO SCALE



9 S201 FRAMING SECTION
3/4" = 1'-0"



10 S201 FRAMING SECTION
3/4" = 1'-0"

GONTRAM ARCHITECTURE, INC.

NORTH CAROLINA PROFESSIONAL SEAL 25539 ENGINEER BRIAN M. ROSS
SEAL NOT VALID UNLESS SIGNED AND DATED

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ATTENDANT BUILDING
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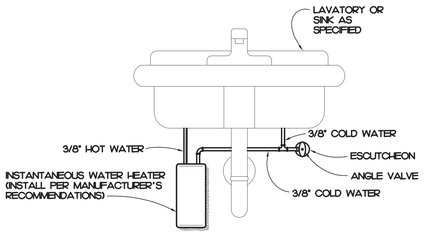
575 ASSEMBLY COURT | FAYETTEVILLE NC 28306

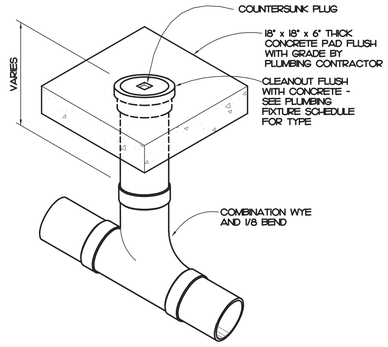
PLOT DATE: 11/2/2023
ISSUED: 11/2/2023 FOR PERMIT

DRAWN BY: BR | APPROVED: SS/EG
PROJECT NO.: C230704 | RECORD:
CONTENTS: SECTIONS AND DETAILS

SHEET: S201

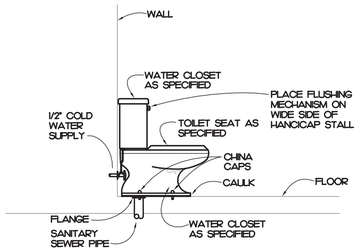


5 WATER HEATER DETAIL
NOT TO SCALE

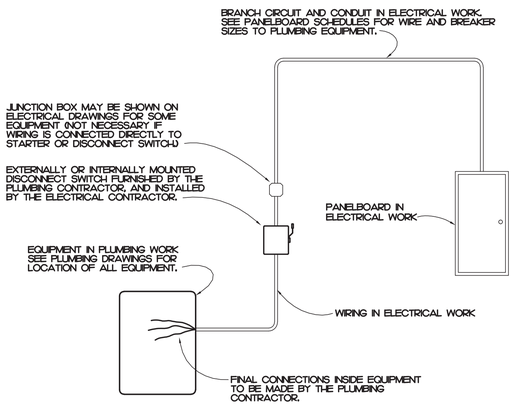


NOTE: SEE SITE AND/OR UTILITY PLAN FOR LOCATION AND FINISH GRADE ELEVATION

6 CLEANOUT DETAIL
NOT TO SCALE



4 WATER CLOSET DETAIL
NOT TO SCALE



3 TYPICAL WIRING DETAIL
NOT TO SCALE

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
7. ALL PIPE, FITTINGS, FIXTURES, AND SOLDER TO BE LEAD FREE.
8. WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER. SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR ONE HOUR AT 50 PSI. TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
9. WATER PIPING LOCATED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
10. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE F FIBERGLASS. EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
11. DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
12. IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
13. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
14. WATER HEATERS SHALL HAVE AND EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
15. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT.
16. SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC. CELLULAR CORE (FOAM CORE) IS NOT ALLOWED. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
17. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
18. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
19. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC.) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
20. ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 5'-0" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-0" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS. VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
21. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING MINIMUM FACILITY CALCULATIONS.
22. THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MANHOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
23. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	COLD WATER PIPING
	COLD WATER PIPING BELOW FINISHED FLOOR
	WATER PIPING TURNED DOWN
	WATER PIPING TURNED UP
	PIPING SIDE CONNECTION
	SANITARY SEWER / WASTE PIPING
	SANITARY SEWER / WASTE PIPING DIRECTION OF FLOW
	VENT PIPING
	VENT PIPE UP
	PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
	FLOOR CLEANOUT
V.T.R.	VENT THRU ROOF

PLUMBING FIXTURE SCHEDULE

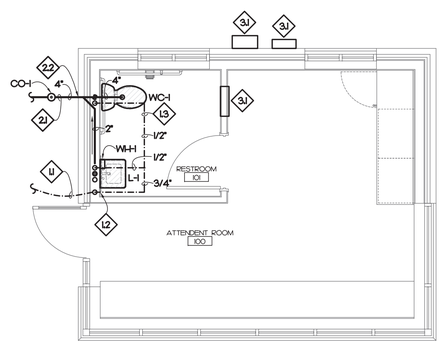
SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
CO-1	EXTERIOR CLEANOUT	ZURN	Z-1449-BP	WATTS	CO-380-3418	JR SMITH	4283	-	-	SEE PLUMB. DRAWINGS
	CLEANOUT FERRULE WITH CAST IRON BODY, WITH GAS AND WATERTIGHT BRONZE PLUG, MOUNT IN CONCRETE.									
L-1	LAVATORY	KOHLER	K-2861-0	AMERICAN STANDARD	0355.012	ZURN	Z5834			
	FAUCET	DELTA	523LF-HGMHDF	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	DEARBORN BRASS	7021	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R1912AC	KOHLER	K-7605-P-CP	1/2"	1/2"	
	WALL HUNG LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. DECK MOUNTED FAUCET SHALL BE CHROME FINISH, SINGLE LEVER, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN, TRUEBRO LAV SHIELD, AND WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.									
WC-1	WATER CLOSET	KOHLER	K-3979	TOTO	CST744SL	AMERICAN STANDARD	2514A.004.020			4"
	SEAT	BEMIS	1655SSC	KOHLER	K-4670-C-0	CHURCH				
	SUPPLY	BRASSCRAFT	CSA0DLC	KOHLER	K-7638	McGUIRE	155	1/2"	-	
	1.6 GPF TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 12" ROUGH-IN. TOILET SHALL INCLUDE POLISHED CHROME TRIP LEVER, SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS, FULL TURN BRASS STEM AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. THE FLUSHING LEVER MECHANISM SHALL BE ON THE WIDE SIDE OF THE STALL.									
WH	WATER HEATER	EEMAX	SP2412					3/8"	3/8"	
	ELECTRIC INSTANTANEOUS WATER HEATER SHALL HAVE AN ELECTRIC INPUT OF 2.4 KW AT 120 VOLT, SINGLE PHASE. WIRING BY LICENSED ELECTRICAL CONTRACTOR.									

PLUMBING SCHEDULE NOTES AND LEGEND:
1. THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
2. SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
3. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
4. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.

ADA COMPLIANT
ELECTRICAL POWER
GAS FIRED

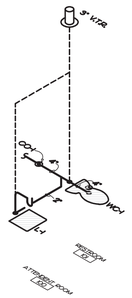
PLUMBING KEY NOTES

1. 3/4" COLD WATER PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK BEGINS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION. SEE SITE PLAN FOR BACKFLOW.
2. MAIN SHUT OFF VALVE IN WALL. PROVIDE WITH ACCESS PANEL.
3. WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S.
2. 4" SANITARY SEWER PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
2. INVERT ELEVATION IS TO BE 1.75' BELOW FINISHED FLOOR.
3. ELECTRICAL EQUIPMENT BY ELECTRICAL CONTRACTOR.



1 PLUMBING PLAN
SCALE: 1/4" = 1'-0"

ALL VENT PIPING IS TO BE 2" UNLESS NOTED OTHERWISE.



2 WASTE RISER PLAN
NOT TO SCALE

GONTRAM ARCHITECTURE, INC.
5100 UNICON DRIVE, SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

ATLANTEC ENGINEERS, PA
323 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
(919) 571-111 23922

NORTH CAROLINA PROFESSIONAL CORPORATION
ATLANTEC ENGINEERS PA No. C-961

NORTH CAROLINA PROFESSIONAL SEAL 025036 ENGINEER BRADLEY W. FILES
9/7/23

ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE NC 28306

PLOT DATE: 09/08/2023	
ISSUED: 09/08/2023 FOR CONSTRUCTION	
REVISION:	
DRAWN BY: NGB	APPROVED: BWF
PROJECT NO.: 22003	RECORD:
CONTENTS: PLUMBING PLAN	

SHEET: P-01 OF 1

2322

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

PRESCRIPTIVE ☒ ENERGY COST BUDGET ☐

THERMAL ZONE 3A

EXTERIOR DESIGN CONDITIONS
winter dry bulb: 16°F
summer dry bulb: 93°F
relative humidity: 46%

INTERIOR DESIGN CONDITIONS
winter dry bulb: 70°F
summer dry bulb: 74°F
relative humidity: 50%

BUILDING HEATING LOAD: BLOCK LOAD = 10.2 MBH
BUILDING COOLING LOAD: BLOCK LOAD = 14.0 MBH (1.2 TONS)

MECHANICAL SPACING CONDITIONING SYSTEM

Unitary:
- description of unit:
- heating efficiency:
- cooling efficiency:
- heat output of unit:
- cooling output of unit:

} SEE SCHEDULES ON THIS SHEET

Boiler: NA
total boiler capacity. If oversized state reason.

Chiller: NA
total chiller capacity. If oversized state reason.

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON THIS SHEET

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)
- motor horsepower:
- number of phases:
- minimum efficiency:
- motor type:
- # of poles:

} SEE SCHEDULES ON THIS SHEET

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code.

SIGNED: _____

NAME: Bradley W. Felts, PE

TITLE: Professional Engineer

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SHEET METAL DUCT
	EXHAUST FAN
T	THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR

NATURAL VENTILATION SUMMARY

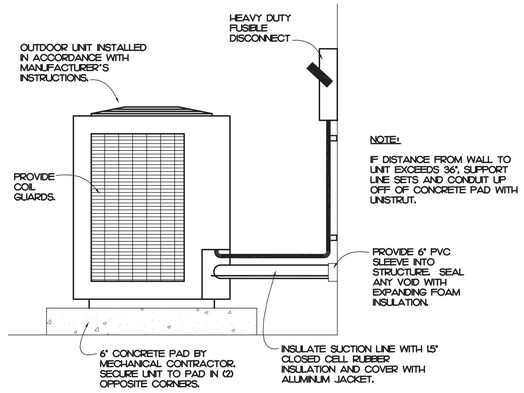
REQUIRED:

TOTAL REQUIRED = 220 SQFT * 0.04 = 9 SQFT

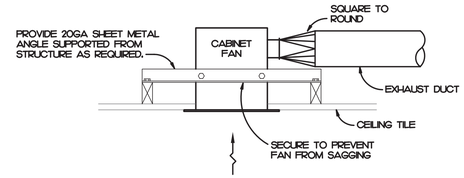
PROVIDED:

TOTAL PROVIDED = 21 SQFT (NEW DOOR)

NOTE: NATURAL VENTILTION FROM NEW DOOR IS IN EXCESS OF THE REQUIRED 4% OF SQFT PER NCMC 402.2



2 OUTDOOR UNIT DETAIL
NOT TO SCALE



3 CABINET FAN DETAIL
NOT TO SCALE

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C.).
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO HIS EQUIPMENT.
7. ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
8. THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER HIS CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
9. THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
10. ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8.
11. MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
12. THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
13. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
14. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
15. PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
16. LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING. WITH EQUIPMENT IDENTIFIER. ALSO LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

MECHANICAL KEY NOTES

1. ROUTE 6"ø EXHAUST DUCT TO EXTERIOR. TERMINATE IN SOFFIT VENT.

EXHAUST FAN SCHEDULE

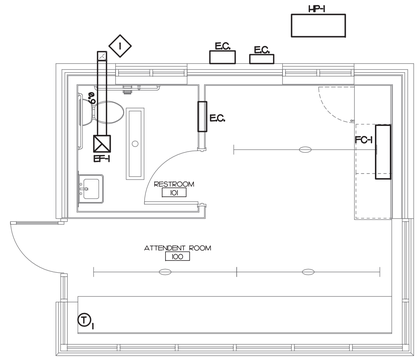
MARK	BASIS OF DESIGN	SERVICE	TYPE	CFM	RPM	HP/AMPS	S.P.	POWER	NOTES
EF-	COOK GC-140		CABINET FAN	105	1500	67 Watts	0.25"	120/1	1-3

NOTES:
1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. CONTROL VIA LIGHT SWITCH BY E.C.

SPLIT SYSTEM HEAT PUMP SCHEDULE

INSIDE UNIT				OUTSIDE UNIT								
MARK	BASIS OF DESIGN	FAN CFM	FAN F.L.A.	MARK	BASIS OF DESIGN	COOLING / HEATING CAPACITY	ELECTRICAL POWER	ELECTRICAL MCA	ELECTRICAL MOCP	EFFICIENCY COOLING	EFFICIENCY HEATING	NOTES
FC-1	MITSUBISHI PKA-A18LA	425	0.19	HP-1	MITSUBISHI PUZ-A18NKA7	18.0/19.0 MBH	230/1	11	15	19.8 SEER	11.2 HSPF	1-5

NOTES:
1. PROVIDE FUSIBLE DISCONNECT ON OUTDOOR UNIT.
2. PROVIDE MOTOR RATED SWITCH FOR INDOOR UNIT.
3. ROUTE CONDENSATE TO EXTERIOR SPLASH BLOCK.
4. PROVIDE WITH WIRED THERMOSTAT.
5. PROVIDE WITH LOW AMBIENT CONTROLS DOWN TO 0°F.



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

GONTRAM ARCHITECTURE, INC.
5100 UNICON DRIVE, SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

ATLANTEC ENGINEERS, PA
323 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
(919) 571-111 2322

NORTH CAROLINA PROFESSIONAL CORPORATION
ATLANTEC ENGINEERS PA No. C-981
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025036 BRADLEY W. FELTS
9/7/23

ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE NC 28306

PLOT DATE: 09/08/2023	
ISSUED: 09/08/2023 FOR CONSTRUCTION	
REVISION:	
DRAWN BY: NGB	APPROVED: BWF
PROJECT NO.: 22003	RECORD:
CONTENTS: MECHANICAL PLAN	

SHEET: M-01 OF 1

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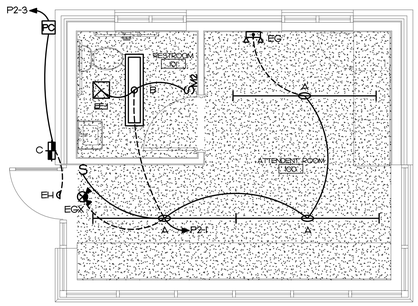
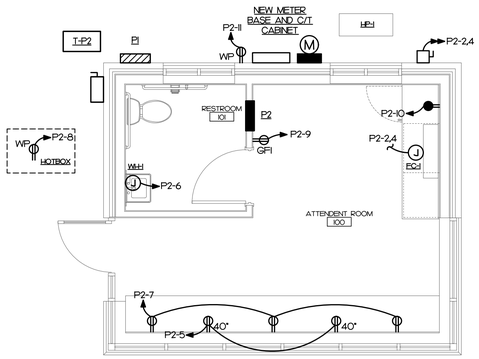


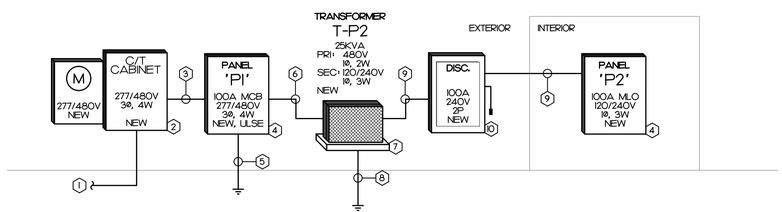
1 LIGHTING PLAN
SCALE: 1/4" = 1'-0"



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

KEY NOTES

1. NEW 277/480V, 3Ø, 4W UNDERGROUND SERVICE CONDUCTORS:
   - TO BE PROVIDED BY LOCAL UTILITY
2. NEW C/T CABINET AND METER BASE IN ACCORDANCE WITH LOCAL UTILITY
3. NEW SERVICE ENTRANCE CONDUCTORS:
   - (4) #3 IN 1-1/4" CONDUIT
4. NEW PANELBOARD. SEE PANEL SCHEDULE FOR DETAILS
5. NEW GROUNDING ELECTRODE CONDUCTORS PER NEC 250:
   - (1) #8G IN 1/2" CONDUIT TO BUILDING STEEL, COLD WATER MAIN
   - (1) #6G IN 1/2" CONDUIT TO 2 DRIVEN RODS
   - (1) #4G IN 1/2" CONDUIT TO REINFORCED STEEL AT CONCRETE FOOTING
6. NEW FEEDER. SEE PANEL SCHEDULE FOR DETAILS
7. NEW 25KVA, 480V PRIMARY, 120/240V SECONDARY NEMA 3R TRANSFORMER. CONTRACTOR TO PROVIDE CONCRETE MOUNTING PAD AS REQUIRED
8. NEW SUPPLY SIDE BONDING JUMPER PER NEC 250:
   - (1) #8G IN 1/2" CONDUIT TO 2 DRIVEN RODS
9. NEW FEEDER:
   - (3) #3, (1) #8G IN 1-1/4" CONDUIT
10. PROVIDE A 100A, 240 VOLT, 2-POLE, NEMA 3R FUSED DISCONNECT. FUSE AT 100 AMPS WITH MINIMUM 100KAIC RATED CURRENT LIMITING FUSES. E.C. SHALL FIELD VERIFY AVAILABLE MAXIMUM FAULT CURRENT WITH UTILITY AND PROVIDE LABEL INDICATING THE CURRENT ON DISCONNECT PER NEC 110.24(A)



3 POWER RISER
NOT TO SCALE

PANEL P1 — 277/480V, 3 PHASE, 4 WIRE

CKT	DESCRIPTION	KVA	C	G	W	CB	CKT	CKT	CB	W	G	C	KVA	DESCRIPTION	CKT
1	COMPACTOR	3.9	3/4	10	10	30	1	2	30	10	10	3/4	3.9	COMPACTOR	2
3		3.9	--	--	10	3P	3	4	3P	10	--	--	3.9		4
5		3.9	--	--	10	--	5	6	--	10	--	--	3.9		6
7	COMPACTOR	3.9	3/4	10	10	30	7	8	30	10	10	3/4	3.9	COMPACTOR	8
9		3.9	--	--	10	3P	9	10	3P	10	--	--	3.9		10
11		3.9	--	--	10	--	11	12	--	10	--	--	3.9		12
13	T-P2	5.5	1	10	6	60	13	14	20	10	10	3/4	1.0	SITE LIGHTING	14
15	TO PANEL P2	2.6	--	--	6	2P	15	16	--	--	--	--	0.0	SPACE ONLY	16
17	SPACE ONLY	0.0	--	--	--	--	17	18	--	--	--	--	0.0	SPACE ONLY	18
19	SPACE ONLY	0.0	--	--	--	--	19	20	--	--	--	--	0.0	SPACE ONLY	20
21	SPACE ONLY	0.0	--	--	--	--	21	22	--	--	--	--	0.0	SPACE ONLY	22
23	SPACE ONLY	0.0	--	--	--	--	23	24	--	--	--	--	0.0	SPACE ONLY	24
25	SPACE ONLY	0.0	--	--	--	--	25	26	--	--	--	--	0.0	SPACE ONLY	26
27	SPACE ONLY	0.0	--	--	--	--	27	28	--	--	--	--	0.0	SPACE ONLY	28
29	SPACE ONLY	0.0	--	--	--	--	29	30	--	--	--	--	0.0	SPACE ONLY	30
31	SPACE ONLY	0.0	--	--	--	--	31	32	--	--	--	--	0.0	SPACE ONLY	32
33	SPACE ONLY	0.0	--	--	--	--	33	34	--	--	--	--	0.0	SPACE ONLY	34
35	SPACE ONLY	0.0	--	--	--	--	35	36	--	--	--	--	0.0	SPACE ONLY	36
37	SPACE ONLY	0.0	--	--	--	--	37	38	--	--	--	--	0.0	SPACE ONLY	38
39	SPACE ONLY	0.0	--	--	--	--	39	40	--	--	--	--	0.0	SPACE ONLY	40
41	SPACE ONLY	0.0	--	--	--	--	41	42	--	--	--	--	0.0	SPACE ONLY	42

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
CONT. LOAD	1.32	125%	1.64
RECEPTACLE	1.26	100%/50%	1.26
MTRS/COOLS	49.18	100%	49.18
HEATS	0.00	100%	0.00
WATER HEATER	2.40	100%	2.40
EQUIPMENT	1.50	100%	1.50
KITCHEN EQUIP.	0.00	65%	0.00
SPECIAL EQ.	0.00	100%	0.00
25% OF LARGEST HVAC/MOTOR			2.93
TOTAL DEMAND			58.90

100 A MINIMUM BUS SIZE
100 A MAIN CIRCUIT BREAKER
25 K MINIMUM AIC RATING

SURFACE MOUNTING
NEMA 3R ENCLOSURE
GROUND BAR
UL LISTED FOR USE AS SERVICE EQUIPMENT

NOTES
1. SQUARE D: NF
2.
3.
4.
5.

CONNECTED LOADS	
PHASE A:	22 KVA
PHASE B:	18.1 KVA
PHASE C:	15.5 KVA
TOTAL:	55.7 KVA
DEMAND	71 AMP

PANEL P2 — 120/240V, 1 PHASE, 3 WIRE

CKT	DESCRIPTION	KVA	C	G	W	CB	CKT	CKT	CB	W	G	C	KVA	DESCRIPTION	CKT
1	LIGHTS	0.2	1/2	12	12	20	1	2	15	12	12	1/2	1.3	HP-1	2
3	EXTERIOR LIGHTS	0.1	1/2	12	12	20	3	4	2P	12	--	--	1.3		4
5	REC 100	0.4	1/2	12	12	20	5	6	30	10	10	3/4	2.4	NOTE 3 WH	6
7	REC 100	0.5	1/2	12	12	20	7	8	20	12	12	1/2	0.5	NOTE 4 HOTBOX	8
9	REC 100	0.2	1/2	12	12	20	9	10	20	12	12	1/2	1.0	NOTE 2 REFRIGERATOR	10
11	REC EXTERIOR	0.2	1/2	12	12	20	11	12	20	--	--	--	0.0	SPARE	12
13	SPARE	0.0	--	--	--	20	13	14	20	--	--	--	0.0	SPARE	14
15	SPARE	0.0	--	--	--	20	15	16	20	--	--	--	0.0	SPARE	16
17	SPACE ONLY	0.0	--	--	--	--	17	18	--	--	--	--	0.0	SPACE ONLY	18
19	SPACE ONLY	0.0	--	--	--	--	19	20	--	--	--	--	0.0	SPACE ONLY	20
21	SPACE ONLY	0.0	--	--	--	--	21	22	--	--	--	--	0.0	SPACE ONLY	22
23	SPACE ONLY	0.0	--	--	--	--	23	24	--	--	--	--	0.0	SPACE ONLY	24
25	SPACE ONLY	0.0	--	--	--	--	25	26	--	--	--	--	0.0	SPACE ONLY	26
27	SPACE ONLY	0.0	--	--	--	--	27	28	--	--	--	--	0.0	SPACE ONLY	28
29	SPACE ONLY	0.0	--	--	--	--	29	30	--	--	--	--	0.0	SPACE ONLY	30
31	SPACE ONLY	0.0	--	--	--	--	31	32	--	--	--	--	0.0	SPACE ONLY	32
33	SPACE ONLY	0.0	--	--	--	--	33	34	--	--	--	--	0.0	SPACE ONLY	34
35	SPACE ONLY	0.0	--	--	--	--	35	36	--	--	--	--	0.0	SPACE ONLY	36
37	SPACE ONLY	0.0	--	--	--	--	37	38	--	--	--	--	0.0	SPACE ONLY	38
39	SPACE ONLY	0.0	--	--	--	--	39	40	--	--	--	--	0.0	SPACE ONLY	40
41	SPACE ONLY	0.0	--	--	--	--	41	42	--	--	--	--	0.0	SPACE ONLY	42

DESCRIPTION	CONNECTED KVA	DEMAND FACTOR	DEMAND KVA
CONT. LOAD	0.29	125%	0.36
RECEPTACLE	1.26	100%/50%	1.26
MTRS/COOLS	2.64	100%	2.64
HEATS	0.00	100%	0.00
WATER HEATER	2.40	100%	2.40
EQUIPMENT	1.50	100%	1.50
KITCHEN EQUIP.	0.00	65%	0.00
SPECIAL EQ.	0.00	100%	0.00
25% OF LARGEST HVAC/MOTOR			0.66
TOTAL DEMAND			8.82

100 A MINIMUM BUS SIZE
MAIN LUGS ONLY
10 K MINIMUM AIC RATING

FLUSH MOUNTING
NEMA 1 ENCLOSURE
GROUND BAR

NOTES
1. SQUARE D: NQ
2. E.C. TO PROVIDE GFCI BREAKER
3. E.C. TO PROVIDE LOCK-OFF PROVISION
4. E.C. TO PROVIDE GFPE BREAKER
5.

CONNECTED LOADS	
PHASE A:	5.5 KVA
PHASE B:	2.6 KVA
TOTAL:	8.1 KVA
DEMAND	37 AMP

4 PANEL SCHEDULES
NOT TO SCALE

GONTRAM ARCHITECTURE, INC.
5100 UNICON DRIVE, SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

ATLANTEC ENGINEERS, PA
322I BLUE RIDGE ROAD, SUITE II3
RALEIGH, NC 2762
(9I9) 57I-III
2322

NORTH CAROLINA PROFESSIONAL CORPORATION — ATLANTEC ENGINEERS PA No. C-961

NORTH CAROLINA PROFESSIONAL SEAL 17382 ENGINEER DAVID J. WHITNEY

2/12/25

ATTENDANT BUILDING
ASSEMBLY COURT SOLID WASTE CONVENIENCE CENTER
575 ASSEMBLY COURT | FAYETTEVILLE NC 28306

PLOT DATE: 03/12/2025
ISSUED: 03/12/2025 FOR CONSTRUCTION
REVISION:

DRAWN BY: SWM | APPROVED: DJW
PROJECT NO.: 22003 | RECORD:

CONTENTS:
ELECTRICAL PLANS
POWER RISER
PANEL SCHEDULE

SHEET: E1.1 OF 3

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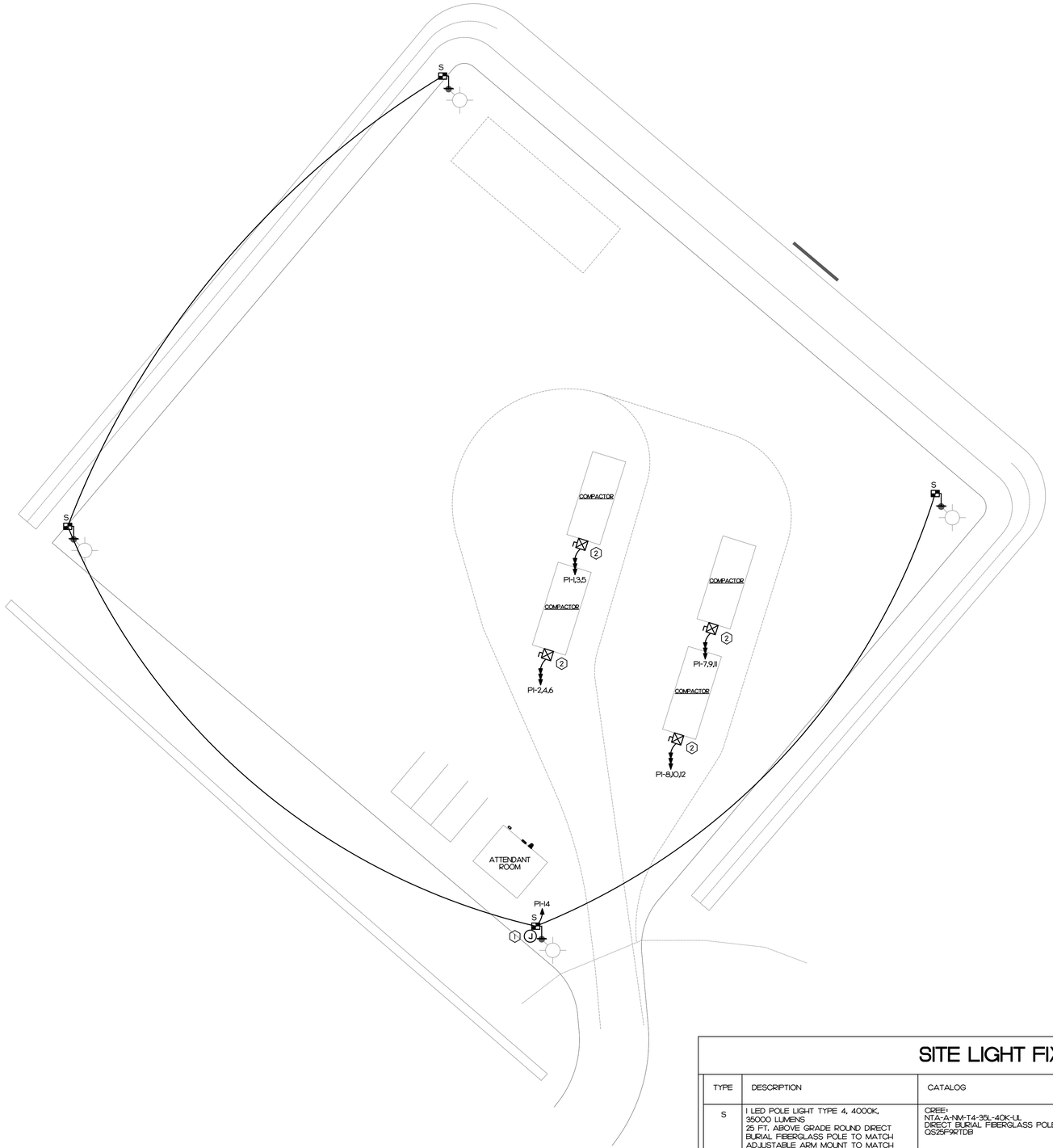
KEY NOTES

1. TYPICAL PULLBOX TO BE AT EACH LIGHT POLE LOCATION FOR CONDUIT CONNECTIONS
2. E.C. TO PROVIDE DISCONNECT AND MOTOR STARTER WITH HAND OFF AND AUTO SWITCH



SITE LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
S	1 LED POLE LIGHT TYPE 4, 4000K, 35000 LUMENS 25 FT. ABOVE GRADE ROUND DIRECT BURIAL FIBERGLASS POLE TO MATCH ADJUSTABLE ARM MOUNT TO MATCH	CREE: NTA-A-NM-T4-35L-40K-UL DIRECT BURIAL FIBERGLASS POLE: QS25F9RTDB	35000 LUMEN LED, 4000K ELECTRONIC DRIVER 230 WATTS - 256 VA, 120-277V	ALL TYPE "S" FIXTURES TO BE MOUNTED AT 25' POLE TO HAVE AT LEAST 7' EMBEDMENT WITH 25' ABOVE GRADE

1 SITE POWER PLAN
SCALE: 1" = 20'-0"

2322

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5100 UNICON DRIVE, SUITE 103
WAKE FOREST, NC 27587
PHONE: 919.876.5331
eddie@gontramarchitecture.com
www.gontramarchitecture.com

ATLANTEC ENGINEERS, PA
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
(919) 571-1111 2322

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3/17/25

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PROJECT NO.: 22003	RECORD:
CONTENTS: SITE POWER PLAN	

SHEET: E1.2
OF 3