

BASIC LAW ENFORCEMENT TRAINING

CARTERET COMMUNITY COLLEGE

3705 ARENDELL STREET

MOREHEAD CITY, NC 28557

PERMIT DRAWINGS

03/09/2022



SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
G-001	COVER SHEET
G1002	BUILDING CODE SUMMARY
G1101	FIRST FLOOR AND ATTIC LIFE SAFETY PLAN
G1201	SPECIFICATIONS
G1202	SPECIFICATIONS
ARCHITECTURAL	
A-001	ARCHITECTURAL LEGEND, NOTES AND ABBREVIATIONS
AD101	FIRST FLOOR DEMO PLAN
AE101	FIRST FLOOR AND REFLECTED CEILING PLAN
AE401	MOUNTING HEIGHTS AND CLEARANCES, ENLARGED PLANS, ELEVATIONS AND DETAILS
AE501	PARTITION TYPES, DETAILS, DOOR SCHEDULE, DOOR DETAILS, FINISH SCHEDULE AND LEGEND
PLUMBING	
PE000	PLUMBING LEGEND, SCHEDULES AND DETAILS
PE100	PLUMBING FLOOR - DEMO
PE101	PLUMBING FLOOR PLAN - NEW WORK
PE201	PLUMBING DETAILS
MECHANICAL	
MH101	FIRST FLOOR PLAN
ELECTRICAL	
E-001	ELECTRICAL LEGEND, NOTES, ABBREVIATIONS, AND LIGHTING FIXTURE SCHEDULE
ED101	ELECTRICAL DEMOLITION PLAN
EL101	ELECTRICAL LIGHTING PLAN
EP101	ELECTRICAL POWER PLAN
EP801	PANELBOARD SCHEDULES, POWER RISER DIAGRAM, AND LOAD SUMMARY

VICINITY MAP



SITE MAP



PROJECT TEAM

OWNER

CARTERET COMMUNITY COLLEGE

3505 ARENDELL STREET

MOREHEAD CITY, NC 28557

T: 252.222.6000

ARCHITECT

CLARK NEXSEN

333 FAYETTEVILLE STREET, SUITE 1000

RALEIGH, NC 27601

T: 919.876.1876

MECHANICAL, PLUMBING, AND ELECTRICAL ENGINEER

CLARK NEXSEN

333 FAYETTEVILLE STREET, SUITE 1000

RALEIGH, NC 27601

T: 919.876.1876

CARTERET COMMUNITY COLLEGE

BASIC LAW ENFORCEMENT TRAINING

3705 ARENDELL STREET

MOREHEAD CITY, NC 28557

DESIGNER



CLARK NEXSEN

333 FAYETTEVILLE STREET, SUITE 1000

RALEIGH, NORTH CAROLINA 27601

919-828-1876

CLARK NEXSEN LICENSE NUMBER: C-1028

PROFESSIONAL SEAL

SUBMITTAL

03/09/2022

PERMIT DRAWINGS

REVISIONS

KEY PLAN

SHEET

COVER SHEET

G-001

DESIGN: Designer

DRAWN: Author

REVIEW: Checker

CN 9568



2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

(Except 1 and 2-family dwellings and townhouses)  
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: BASIC LAW ENFORCEMENT TRAINING RENOVATION

Address: 3505 ARENDELL STREET, MOREHEAD CITY, NC Zip Code 28557

Owner / Authorized Agent: STEPHEN SPARKS

Phone # 252.222.6078 E-Mail: SPARKSS@CARTERET.EDU

Owned By: ☐ City / County ☐ Private ☒ State

Code Enforcement Jurisdiction: ☒ City: Morehead City ☐ County: ☐ State

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	CLARK NEXSEN	ANNA TRAYLOR	12778	919.876.2129	ATRAYLOR@CLARKNEXSEN.COM
Electrical	CLARK NEXSEN	JOHN RASH	044548	919.876.2129	JRASH@CLARKNEXSEN.COM
Fire Alarm	CLARK NEXSEN	JOHN RASH	044548	919.876.2129	JRASH@CLARKNEXSEN.COM
Plumbing	CLARK NEXSEN	ANTHONY BRANDON	023940	919.876.2129	ABRANDON@CLARKNEXSEN.COM
Mechanical	CLARK NEXSEN	WILLIAM STINGL	032874	919.876.2129	WSTINGL@CLARKNEXSEN.COM
Sprinkler-Standpipe					
Structural					

2018 NC BUILDING CODE: ☐ New Building ☐ Addition ☒ Renovation

☐ 1st Time Interior Completions

☐ Shell / Core: Contact the local inspection jurisdiction for possible additional procedures and requirements

☐ Phased Construction - Shell / Core: Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: Existing: ☒ Prescriptive ☐ Repair ☐ Chapter 14

Alteration: ☒ Level I ☒ Level II ☐ Level III

☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) 1950s CURRENT OCCUPANCY(S) (Ch 3): BUSINESS

RENOVATED: (date) PROPOSED OCCUPANCY(S) (Ch 3): BUSINESS

RISK CATEGORY (Table 1604.5): Current: ☐ I ☒ II ☐ III ☐ IV

Proposed: ☐ I ☒ II ☐ III ☐ IV

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A

(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B

Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D

Standpipes: ☒ No ☐ Yes ☐ Class I ☐ Class II ☐ Class III ☐ Wet ☐ Dry

Fire District: ☐ No ☐ Yes Flood Hazard Area: ☐ No ☐ Yes

Special Inspections Required: ☒ No ☐ Yes (Contact the local inspection jurisdiction for additional procedures and requirements)

FLOOR	EXISTING (SQ FT)	RENOVATION (SQ FT)	NEW (SQ FT)	SUB-TOTAL (SQ FT)
FIRST FLOOR	8133 SF	393 SF	0 SF	8,525 SF
ATTIC	4451 SF	0 SF	0 SF	4,451 SF
TOTAL	12583 SF	393 SF	0 SF	12,976 SF

ALLOWABLE AREA

Primary Occupancy Classification(s):

Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5

Business ☒ F-1 Moderate ☐ F-2 Low ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM

Educational ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ 1 ☐ 2

Factory ☐ I-1 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

Hazardous ☐ I-2 Condition ☐ 1 ☐ 2

Institutional ☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5

☐ I-4 Condition

Mercantile ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4

Residential ☐ S-1 Moderate ☐ S-2 Low ☐ High-piled ☐ Enclosed ☐ Repair Garage

Storage ☐ Parking Garage ☐ Open

Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): STORAGE S-1

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 Use (508.3)  
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply the entire building.

☐ Separated Use (508.3)  
See below 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.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$+ \dots = \leq 1.00$$

FLOOR (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 AREA PER STORY OR UNLIMITED (2.3)
FIRST FLOOR	BUSINESS AND STORAGE	8,525 SF	9,000 SF		
ATTIC		4,451 SF			
		12,976 SF			

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

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE <sup>1</sup>
Building Height in Feet (Table 504.3) <sup>2</sup>	40	EXISTING	
Building Height in Stories (Table 504.4) <sup>3</sup>	2	EXISTING	

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

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
		REQ'D	PROVIDED (W/ + REDUCTION)				
Structural Frame, including columns, girders, trusses		0	0				
Bearing Walls		0	0				
- Exterior							
- North							
- East							
- West							
- South							
- Interior							
Nonbearing Walls and Partitions		0	0				
- Exterior							
- North							
- East							
- West							
- South							
- Interior Walls and Partitions							
Floor Construction including supporting beams and joints		0	0				
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction including supporting beams and joints		0	0				
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant / Dwelling Unit / Sleeping Unit Separation							
Incidental Use Separation							

\*Indicate section number permitting reduction

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
EXISTING			

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☒ Yes ☐ No

Exit Signs: ☒ Yes ☐ No

Fire Alarm: ☒ Yes ☐ No

Smoke Detection Systems: ☒ Yes ☐ No ☐ Partial

Carbon Monoxide Detection: ☐ Yes ☒ No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: GI101

☐ Fire and / or smoke rated wall locations (Chapter 7)

☐ Assumed and real property line locations (if not on the site plan)

☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)

☒ Occupancy use for each area as it relates to occupant load calculation (Table 1004.1.2)

☒ Occupant loads for each area

☒ Exit access travel distances (1017)

☐ Common path of travel distances (Tables 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 (1010.1.9.9)

☐ Location of doors equipped with hold-open devices

☐ Location of emergency escape windows (1030)

☐ The square footage of each fire area (202)

☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)

☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS  
(SECTION 1107)

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

ACCESSIBLE PARKING  
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	8' ACCESS AISLE	
TOTAL	0	0	0	0	0	0

PLUMBING FIXTURE REQUIREMENTS  
(TABLE 2902.1)

USE	WATERCLOSETS			LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
EXISTING	2	2		2	2			1	
NEW	0	3		0	3		2		1
REQUIRED	3	3		2	2				1

\*Due to existing conditions and funding, the building does not have the required fixtures, but with this renovation adds an additional accessible water closet fixture and replaces the non-accessible drinking fountain with an accessible drinking fountain.

SPECIAL APPROVALS

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

ENERGY SUMMARY

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

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 (Prescriptive)  
☐ Energy Code (Performance)  
☐ ASHRAE 90.1 (Prescriptive)  
☐ ASHRAE 90.1 (Performance)  
(If "Other" specify source here: )

THERMAL ENVELOPE (Prescriptive Method Only)

Roof / Ceiling Assembly

Description of assembly: (EXISTING ROOF ASSEMBLY TO REMAIN) ASPHALT SHINGLES OVER BATT INSULATION

U-Value of total assembly:

R-Value of insulation:

Skylights in each assembly:

U-Value of skylight:

Total square footage of skylights in each assembly:

Exterior Walls

Description of assembly: (EXISTING WALL ASSEMBLY TO REMAIN) PLASTIC SIDING OVER 2X6 WOOD STUDS WITH BATT INSULATION IN BETWEEN

U-Value of total assembly:

R-Value of insulation:

Openings (windows or doors with glazing)

U-Value of assembly:

Solar heat gain coefficient:

Projection factor:

Door R-Values:

Walls below grade

Description of assembly: N/A

U-Value of total assembly:

R-Value of insulation:

Floors over unconditioned space

Description of assembly: N/A

U-Value of total assembly:

R-Value of insulation:

Floors slab on grade

Description of assembly: EXISTING TO REMAIN (4" MIN. SLAB REPLACEMENT AT RESTROOM ONLY)

U-Value of total assembly:

R-Value of insulation:

Horizontal/vertical requirement:

Slab heated:

2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

STRUCTURAL DESIGN  
(Provide on sheet 1 or 2 of the structural sheets)

DESIGN LOADS:

Importance Factors: Snow (I<sub>S</sub>) 1.0  
Seismic (I<sub>E</sub>) 1.0

Live Loads: Roof - psf  
Mezzanine - psf  
Ground Floor 100 psf

Ground Snow Load: 10 psf

Wind Load: Basic Wind Speed 143 mph (ASCE-7)  
Exposure Category D

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<sub>ss</sub> 0.119 %g S<sub>1</sub> 0.06 %g

Site Classification: (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F  
Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data

Basic structural system: (check one)

☐ Bearing Wall ☐ Dual w/ Special Moment Frame  
☐ Building Frame ☐ Dual w/ Intermediate R/C or Special Steel  
☐ Moment Frame ☐ Inverted Pendulum

Analysis Procedure: ☐ Simplified ☐ Equivalent 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 -

2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN  
(Provide on the mechanical sheets if applicable)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS, AND EQUIPMENT SYSTEM TO REMAIN AS IS

Thermal Zone

winter dry bulb:  
summer dry bulb:

Interior design conditions

winter dry bulb:  
summer dry bulb:  
relative humidity:

Building heating load:

Building cooling load:

Mechanical Spacing Conditioning System

Unitary

description of unit:

heating efficiency:

cooling efficiency:

size of category of unit:

Boiler

Size category. If oversized, state reason:

Chiller

Size category. If oversized, state reason:

List equipment efficiencies:

2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN  
(Provide on the electrical sheets if applicable)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: ☒ Energy Code (Prescriptive)  
☐ Energy Code (Performance)  
☐ ASHRAE 90.1 (Prescriptive)  
☐ ASHRAE 90.1 (Performance)

Lighting schedule (each fixture type)

lamp type required  
number of lamps in each fixture  
ballast type use in the fixture  
number of ballast in the fixture  
total wattage per fixture  
total interior wattage specified vs. allowed (whole building or space by space) 150W VS. 385W (90% OF 385W = 347W)  
total exterior wattage specified vs. allowed N/A

Additional Efficiency Package Options  
(When using the 2018 NCECC; not required for ASHRAE 90.1)

- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☒ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating

BASIC LAW  
ENFORCEMENT  
TRAINING

3705 ARENDELL STREET  
MOREHEAD CITY, NC 28557

CLARK NEXSEN

333 FAYETTEVILLE STREET, SUITE 1000  
RALEIGH, NORTH CAROLINA 27601  
919-828-1876

CLARK NEXSEN LICENSE NUMBER: C-1028  
PROFESSIONAL SEAL

03/09/2022

PERMIT DRAWINGS

BUILDING CODE SUMMARY

GI002

DESIGN: Designer  
DRAWN: Author  
REVIEW: Checker



## CARTERET COMMUNITY COLLEGE

3705 ARENDELL STREET  
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DESIGNER



CLARK NEXSEN

333 FAYETTEVILLE STREET, SUITE 1000  
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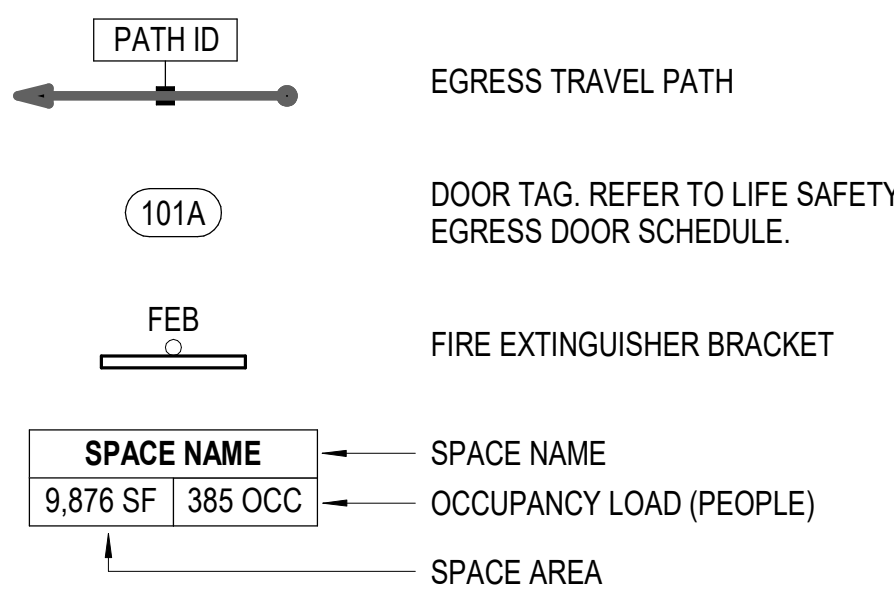
MARK	LENGTH
PATH A	95'-11"
PATH B	74'-9"
PATH C	89'-5"

CLARK NEXSEN LICENSE NUMBER: C-1028  
PROFESSIONAL SEAL

SUBMITTAL

03/09/2021

## LIFE SAFETY LEGEND



## KEY PLAN

SHEET

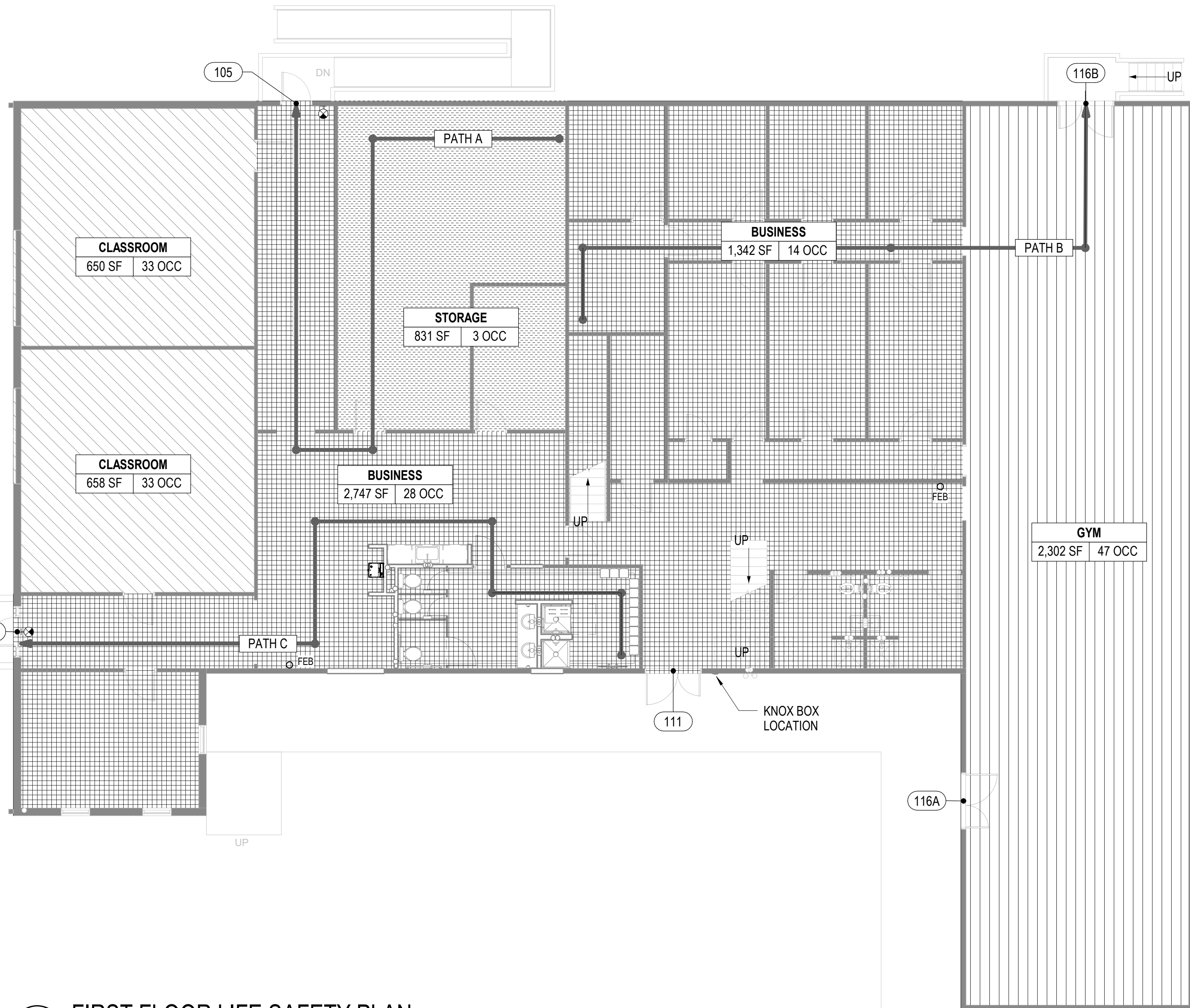
FIRST FLOOR AND ATTIC LIFE  
SAFETY PLAN

# GI101

DESIGN: Designer  
DRAWN: Author  
REVIEW: Checker





CN 9568

(D1) SCALE: 1/8" = 1'-0"



SCALE: 1/8" = 1'-0" AE101

### LIFE SAFETY - OCCUPANT CALCULATION - FIRST FLOOR

LEVEL	PATTERN	OCCUPANCY	SF PER PERSON	OCCUPANCY SF TYPE	AREA	'NUMBER OF OCCUPANTS
FIRST FLOOR		ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	300	GROSS	831 SF	3
FIRST FLOOR		BUSINESS AREAS	100	GROSS	4,089 SF	42
FIRST FLOOR		EDUCATIONAL CLASSROOM AREA	20	NET	1,309 SF	66
FIRST FLOOR		EXERCISE ROOMS WITH EXERCISE EQUIPMENT	50	GROSS	2,302 SF	47
FIRST FLOOR TOTALS:					8,530 SF	158

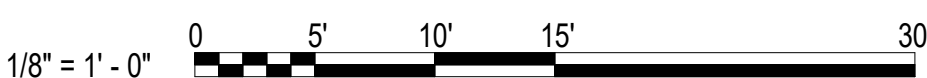
\* NUMBER OF OCCUPANTS IS AN AGGREGATE AND IS A RESULT OF ROUNDING UP INDIVIDUAL AREAS

**LIFE SAFETY - EGRESS DOOR SCHEDULE - FIRST FLOOR**

DOOR NO.	CLEAR EGRESS WIDTH PROVIDED	EGRESS WIDTH FACTOR	OCCUPANT LOAD		DELAYED EGRESS (SECONDS)	ELECTROMAGNETIC LOCK	HOLD OPEN DEVICE	PANIC HARDWARE
			MAX PROVIDED	REQUIRED				
FIRST FLOOR								
105	32"	0.2	160	37				
111	67"	0.2	334	37				
116A	67"	0.2	334	24				
116B	67"	0.2	334	24				

\*ALL DOORS AND HARDWARE ARE EXISTING TO REMAIN AND ARE SHOWN IN SCHEDULE ONLY FOR EGRESS PURPOSES

GRAPHIC SCALE(S)









A

B

C

D

E

1

2

3

4

5

6

DIVISION 10 - SPECIALTIES (cont.)

SECTION 105126 - PLASTIC LOCKERS

- 1.1 PRODUCTS
- A. Corridor Lockers: Double tier configuration.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- a. ASI Accurate Partitions
- b. Bradley Corp.
- c. Scranton Products
2. Sides, Shelves, Tops and Bottoms: HDPE polymer resin formed under high pressure to solid plastic components 3/8" thick with a homogenous color
3. Doors: HDPE polymer resin formed under high pressure to a solid plastic component 1/2" thick with a homogeneous color.
4. Hinges: Continuous.
5. Door Handle and Latch: Continuous latch with finger-slide latching mechanism capable of accepting a padlock and securely fastened to the door. Latch mechanism shall be attached to the entire length of the door, providing a continuous security latch
6. Coat Hooks: Manufacturer's standard 2-prong coat hook mounted on the back panel.
7. Base: Manufacturer's standard with closure panels of black HDPE resin.
8. Tops: Continuous, sloping.
9. Ends: Finished end panels.
10. Color: to be selected by the Architect from the manufacturer's full line of colors.
- 1.2 INSTALLATION
- A. Anchor the units to the wall studs through the locker back and to the floor. Lockers are joined side by side with non-corrosive tamper resistant fasteners.

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PERMIT DRAWINGS

REVISIONS


KEY PLAN

SHEET

SPECIFICATIONS

GI202

DESIGN: Designer  
DRAWN: Author  
REVIEW: Checker

CN 9568














## GENERAL NOTES

1. ALL ITEMS SALVAGED FOR OWNER SHALL BE PRESENTED TO THE OWNER FOR THE FIRST RIGHT OF REFUSAL. IF OWNER CHOOSES TO RETAIN ITEMS, THE CONTRACTOR WILL MOVE ITEMS TO THE LOCATION OF THE OWNERS CHOOSING ON SITE. IF OWNER CHOOSES TO NOT RETAIN ITEMS, CONTRACTOR IS TO DISPOSE OF ITEMS LEGALLY OFF SITE.
2. ALL ITEMS SALVAGED FOR REINSTALLATION SHALL BE PROTECTED FROM DAMAGE AND STORED ON SITE IN A SECURE LOCATION. ITEMS TO BE REINSTALLED WILL BE CLEANED PRIOR TO INSTALLATION. IF ITEM IS DAMAGED IN ACT OF REMOVAL FROM ITS CURRENT LOCATION, NOTIFY OWNER AND ARCHITECT IMMEDIATELY.

## # DEMO KEY NOTES

- 1 DEMOLISH EXISTING FLOOR TILE ON FLOOR AND BASE; PREP FLOOR FOR NEW WORK.
- 2 DEMOLISH EXISTING CEILING FINISH; PREP FOR NEW WORK.
- 3 PREP BRICK FOR STOOP EXTENSION
- 4 EXISTING SLAB-ON-GRADE TO REMAIN. VERIFY THICKNESS IN FIELD.
- 5 EXTENTS OF EXISTING SLAB-ON-GRADE TO BE REMOVED.
- 6 DEMOLISH EXTENTS OF BRICK ON STOOP. PREP FOR NEW BRICK WORK
- 7 PREP WALL TO RECEIVE NEW BLOCKING, COORDINATE WITH NEW FOLD DOWN BENCH
- 8 DEMOLISH DOOR AND FRAME. PREP WALL OPENING FOR NEW WALL INFILL.
- 9 DEMOLISH EXISTING FLOORING. PREP FOR NEW WORK.

## DEMOLITION LEGEND

- |   |   |
|---|---|
|  | EXISTING WALL TO REMAIN   |
|  | EXISTING WALL TO BE REMOVED IN ITS ENTIRETY   |
|  | EXISTING DOOR TO REMAIN   |
|  | EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED. PREP WALL FOR NEW WORK AS DICTATED ON THE NEW WORK PLANS |
|  | EXISTING WALL, DOOR, FRAME AND HARDWARE TO BE REMOVED IN THEIR ENTIRETY                                   |
|  | EXISTING PLUMBING FIXTURES TO BE REMOVED  |
|  | DENOTES NEW OPENING IN EXISTING FLOOR SLAB (REFER TO STRUCTURAL.)   |

GRAPHIC SCALE(S)

1/8" = 1' - 0"



A horizontal graphic scale bar with alternating black and white segments. It is marked with '0', '5'', '10'', '15'', and '30'' at regular intervals.

CARTERET COMMUNITY COLLEGE

# BASIC LAW ENFORCEMENT TRAINING

3705 ARENDELL STREET  
MOREHEAD CITY, NC 28557

DESIGNER



333 FAYETTEVILLE STREET, SUITE 1000  
RALEIGH, NORTH CAROLINA 27601  
919-828-1876

CLARK NEXSEN LICENSE NUMBER: C-1028

---

PROFESSIONAL SEAL

---

SUBMITTAL

03/09/2022

## PERMIT DRAWINGS

## REVISIONS

## KEY PLAN

SHEET

FIRST FLOOR DEMO PLAN

AD101

DESIGN: Designer  
DRAWN: Author  
REVIEW: Checker

CN 9568



**A1 FIRST FLOOR DEMO PLAN**  
SCALE: 1/8" = 1'-0" AE101

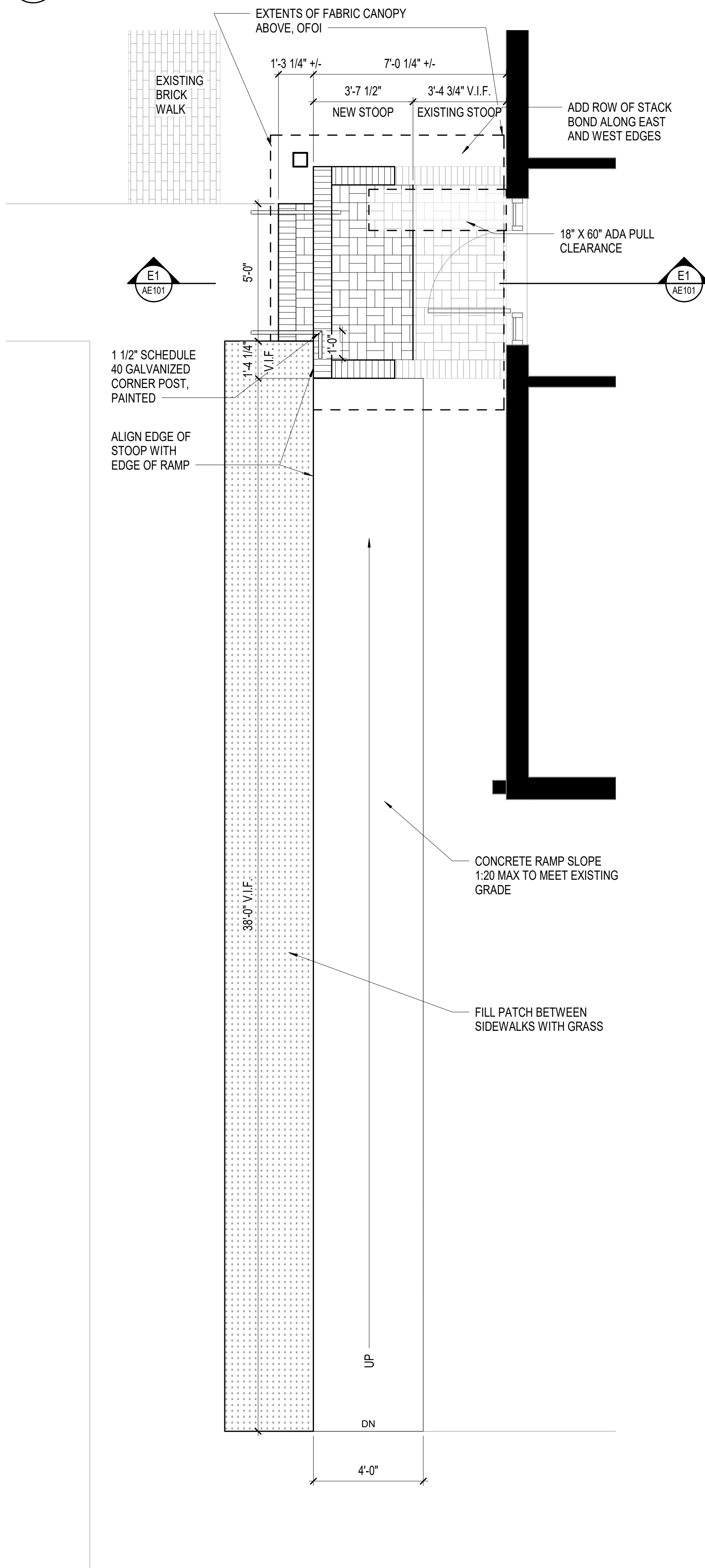
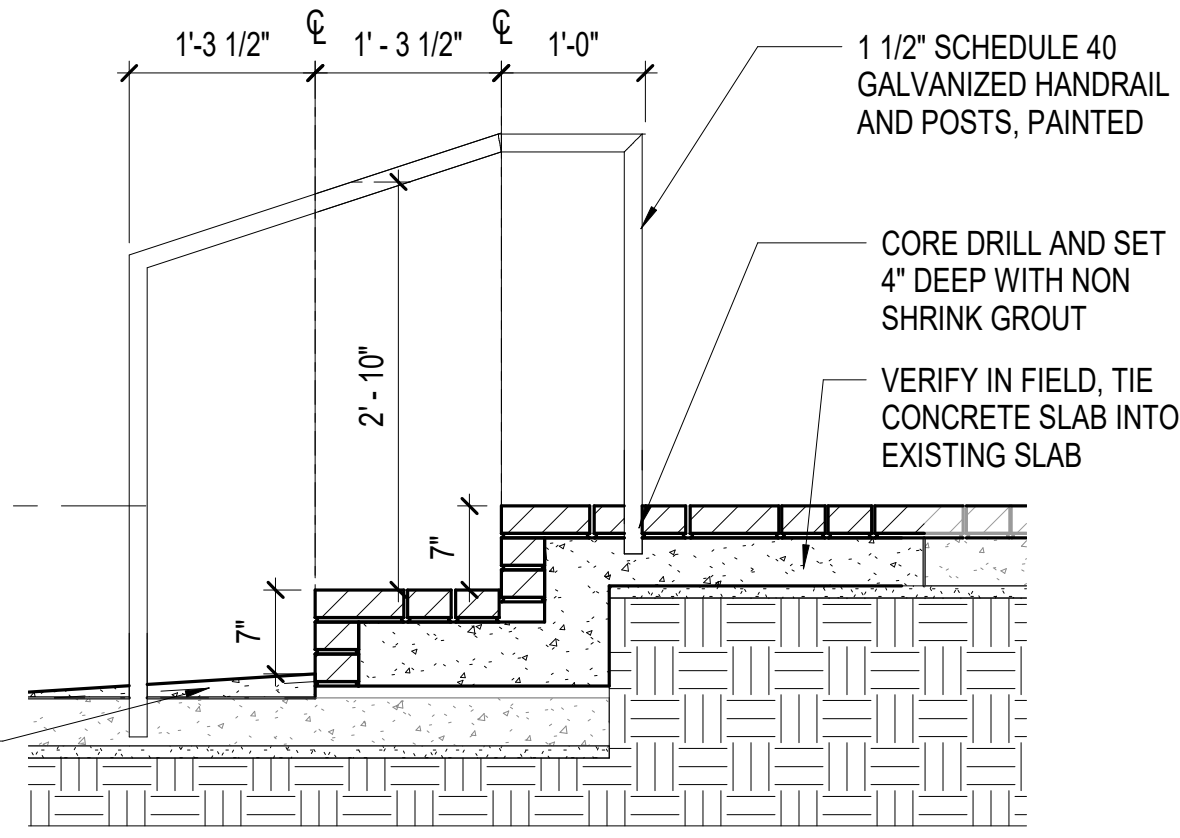


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830



**FIRST FLOOR**  
0'-0"

SLOPE EXISTING  
CONCRETE  
SIDEWALK (1:20  
MAX) TO MEET 7"  
RISERS



## GENERAL NOTES

1. PLAN DIMENSIONS SHOWN ARE TO FACE OF FRAMING MEMBERS OR FACE OF EXISTING WALL, EXCLUSIVE OF INTERIOR WALLS.
2. EXISTING GROUND FINISH FLOOR ELEVATION, VERIFY IN FIELD. REFERENCE ELEVATION = 0'-0" DATUM.
3. ALL INTERIOR DIMENSIONS ARE TO FACE OF PARTITION ASSEMBLY AS DEFINED BY THE PARTITION SCHEDULE AND IS EXCLUSIVE OF ANY APPLIED FINISH.
4. REFER TO SHEET AE501 FOR THE PARTITION SCHEDULES. ALL INTERIOR PARTITIONS ARE TO BE TYPE W4N UNLESS OTHERWISE NOTED.
5. ALL DIMENSIONS TO BE FIELD VERIFIED PRIOR TO INSTALLATION OF EQUIPMENT / SHELVING / CASEWORK.
6. VERIFY AND COORDINATE PENETRATIONS THROUGH FLOOR SLABS, ROOF DECK AND PARTITIONS WITH PM&E DRAWINGS.
7. COORDINATE ALL UNDERSLAB PIPE AND UTILITY LOCATIONS WITH MEP DRAWINGS. SEE "TYPICAL SLAB-ON-GRADE REPLACEMENT AT UNDERSLAB UTILITIES" DETAIL.
8. PROVIDE ADDITIONAL SLAB REINFORCING AT ALL UTILITY LOCATIONS. SEE TYPICAL DETAILS.
9. PROVIDE SAWED CONTROL JOINTS IN SLAB-ON-GRADE. SPACE JOINTS AS INDICATED IN THE "TYPICAL SLAB-ON-GRADE SAWED(CONTRACTION) JOINT (SJ)" DETAIL.
10. REFER TO SHEET AE501 FOR DOOR SCHEDULE.
11. HVAC & LIGHTING FIXTURES SHOWN ARE FOR GRAPHICAL PURPOSES ONLY. GC TO REFER TO PME DRAWINGS AND SHOULD NOTIFY ARCHITECT IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES.
12. GENERAL CONTRACTOR TO COORDINATE ALL SOFFIT/ BULKHEAD FRAMING WITH FINAL LIGHTING FIXTURES & HVAC DIFFUSER LOCATIONS.
13. GENERAL CONTRACTOR TO FIELD VERIFY CEILING HEIGHTS SHOWN ON RCP DRAWINGS PRIOR TO INSTALLATION OF ALL MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT, CONDUITS, ETC. ARCHITECT TO BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
14. GENERAL CONTRACTOR TO INSTALL WIRE HANGERS @ ALL CORNERS OF LIGHT FIXTURES, REGISTERS, & GRILLES.
15. ALL RECESSED LIGHTING SHALL BE CENTERED WITHIN THE SOFFIT DIMENSIONS, UON.
16. ALL DEVICES TO BE CENTERED IN ACT UNLESS OTHERWISE NOTED.

## KEY NOTES

- 1 KNOX BOX

CARTERET COMMUNITY COLLEGE

## BASIC LAW ENFORCEMENT TRAINING

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DESIGNER

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919-828-1876

CLARK NEXSEN LICENSE NUMBER: C-1028  
PROFESSIONAL SEAL

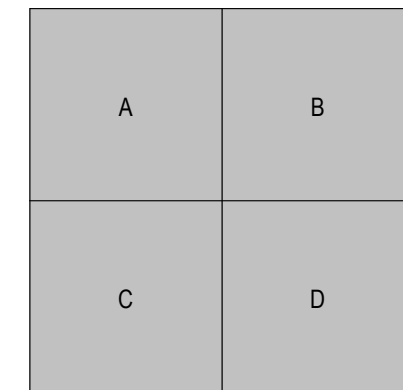
SUBMITTAL

03/09/2022

## PERMIT DRAWINGS

REVISIONS

KEY PLAN



SHEET

## FIRST FLOOR AND REFLECTED CEILING PLAN

# AE101

DESIGN: Designer  
DRAWN: Author  
REVIEW: Checker

CN 9568

## GRAPHIC SCALE(S)





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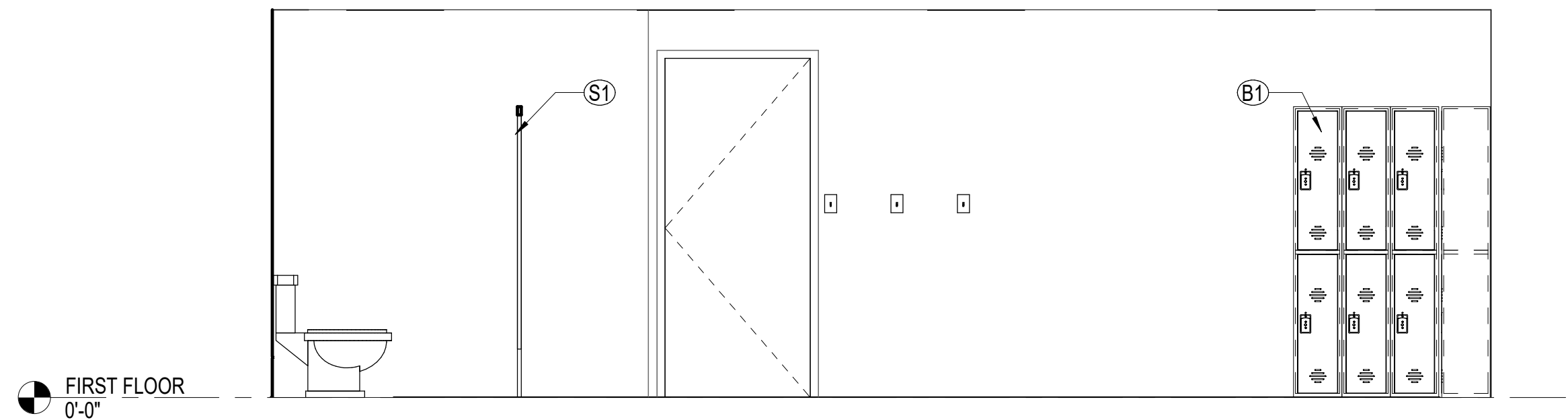
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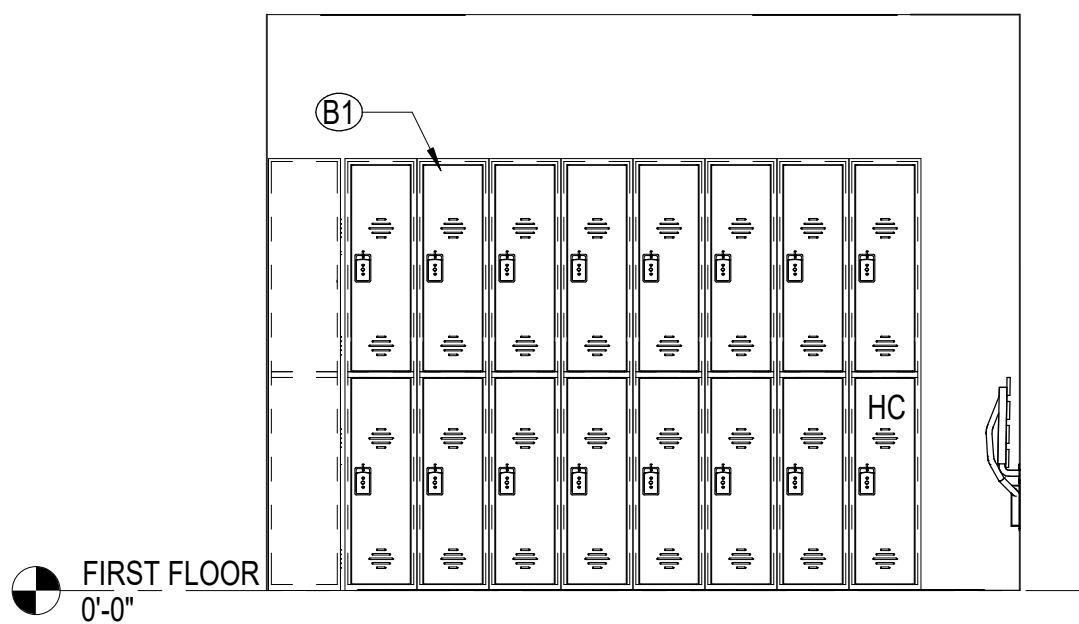
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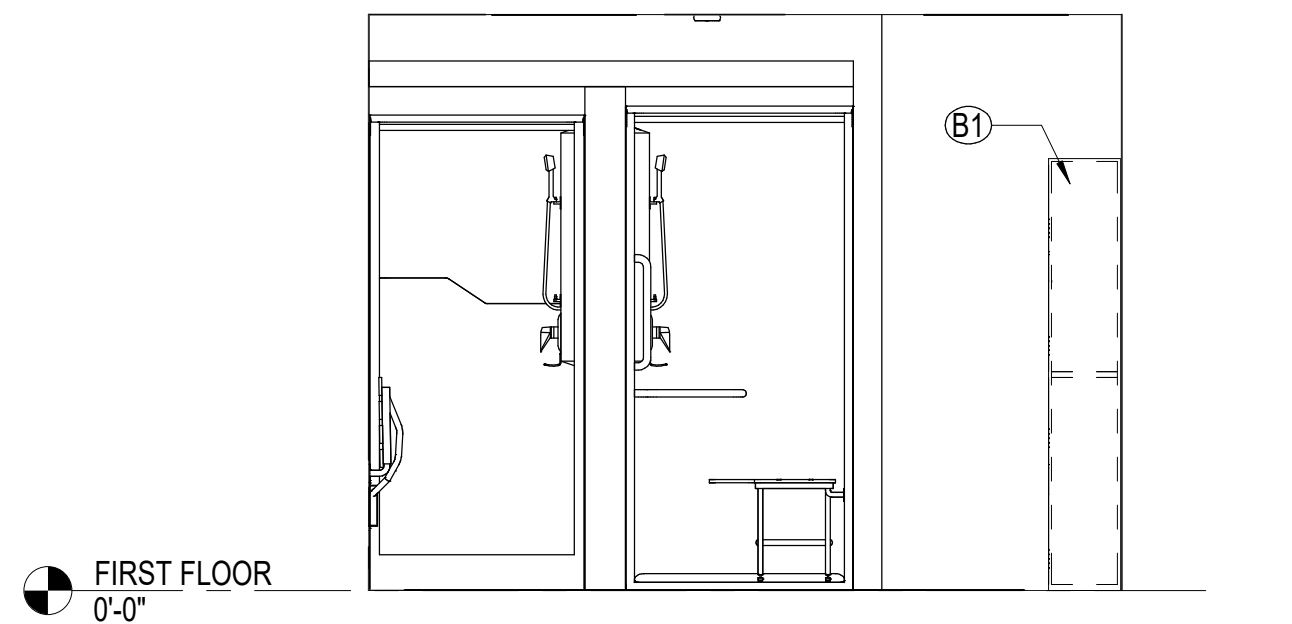
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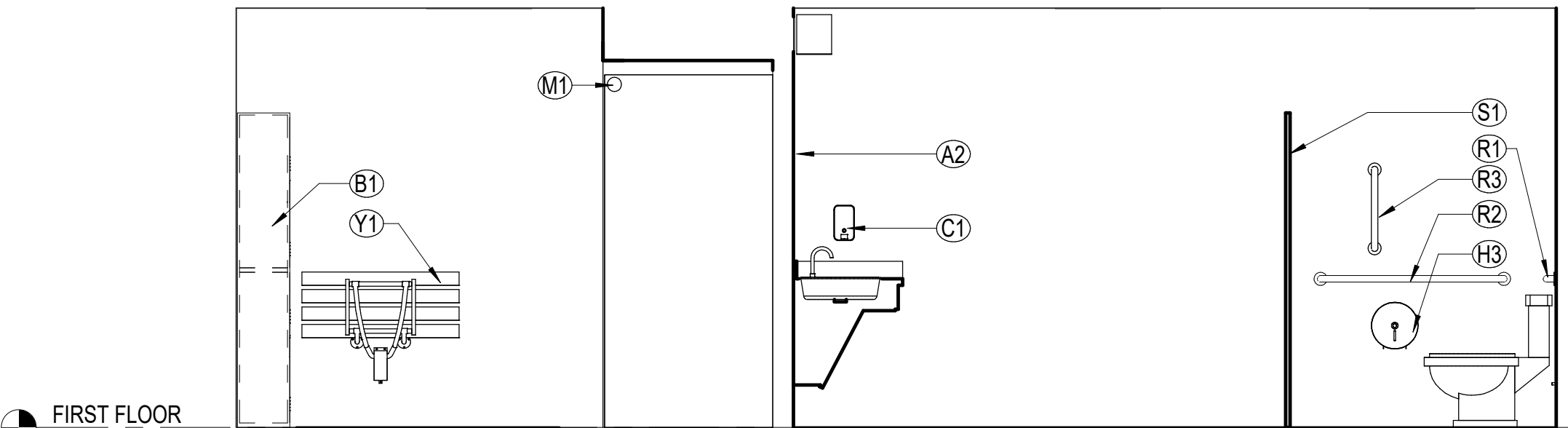
E1 ELEVATION  
SCALE: 3/8" = 1'-0" AE401



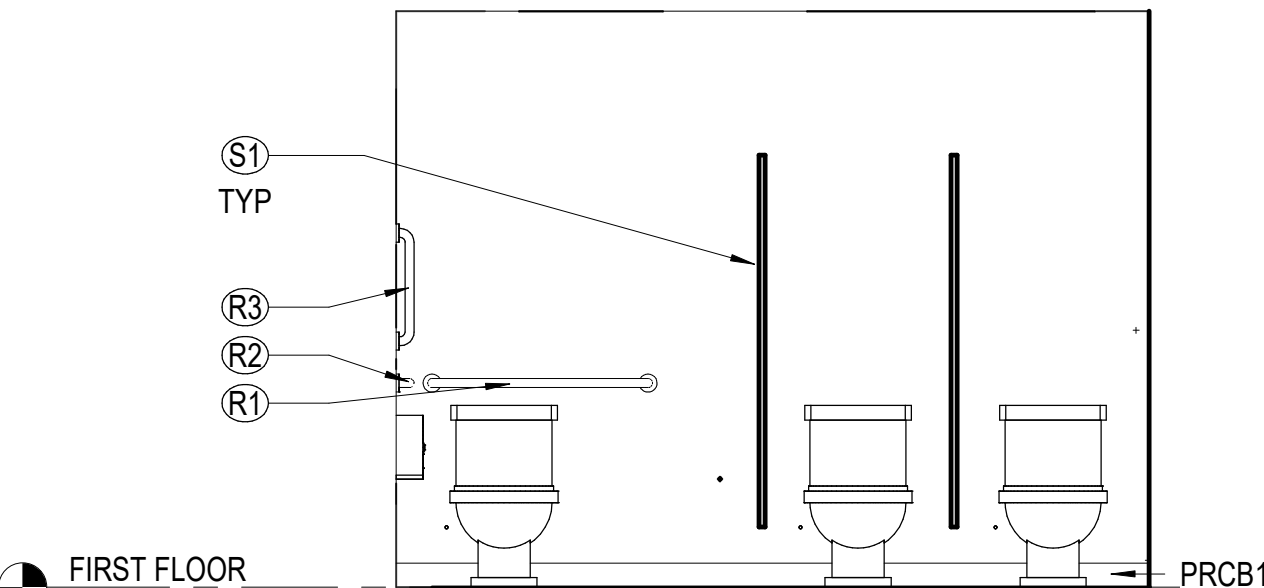
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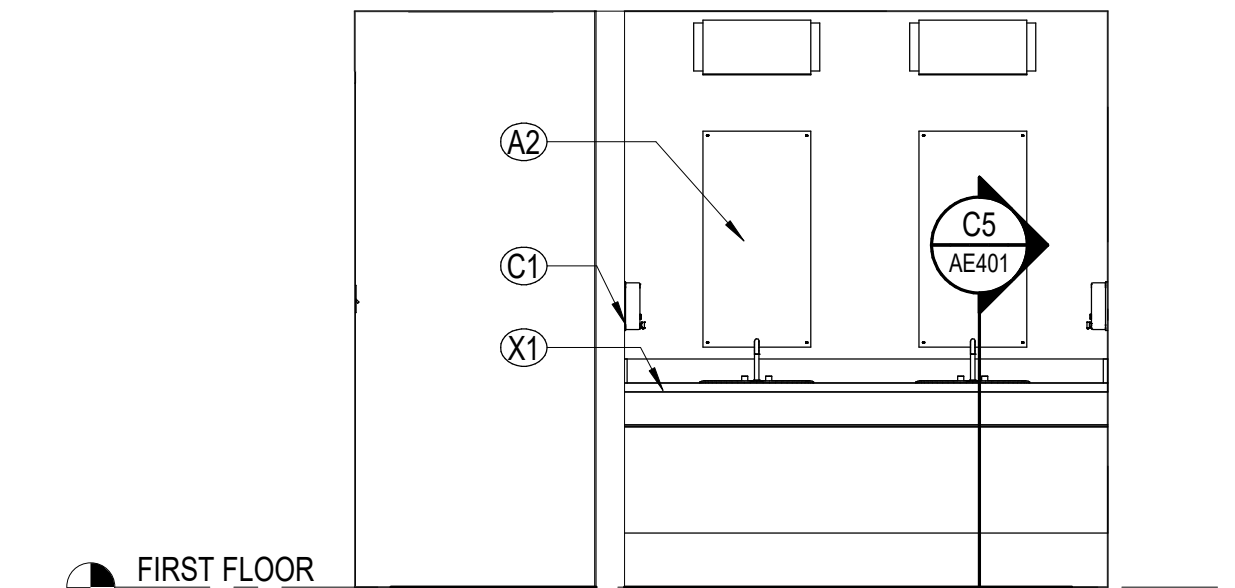
E4 ELEVATION  
SCALE: 3/8" = 1'-0" AE401



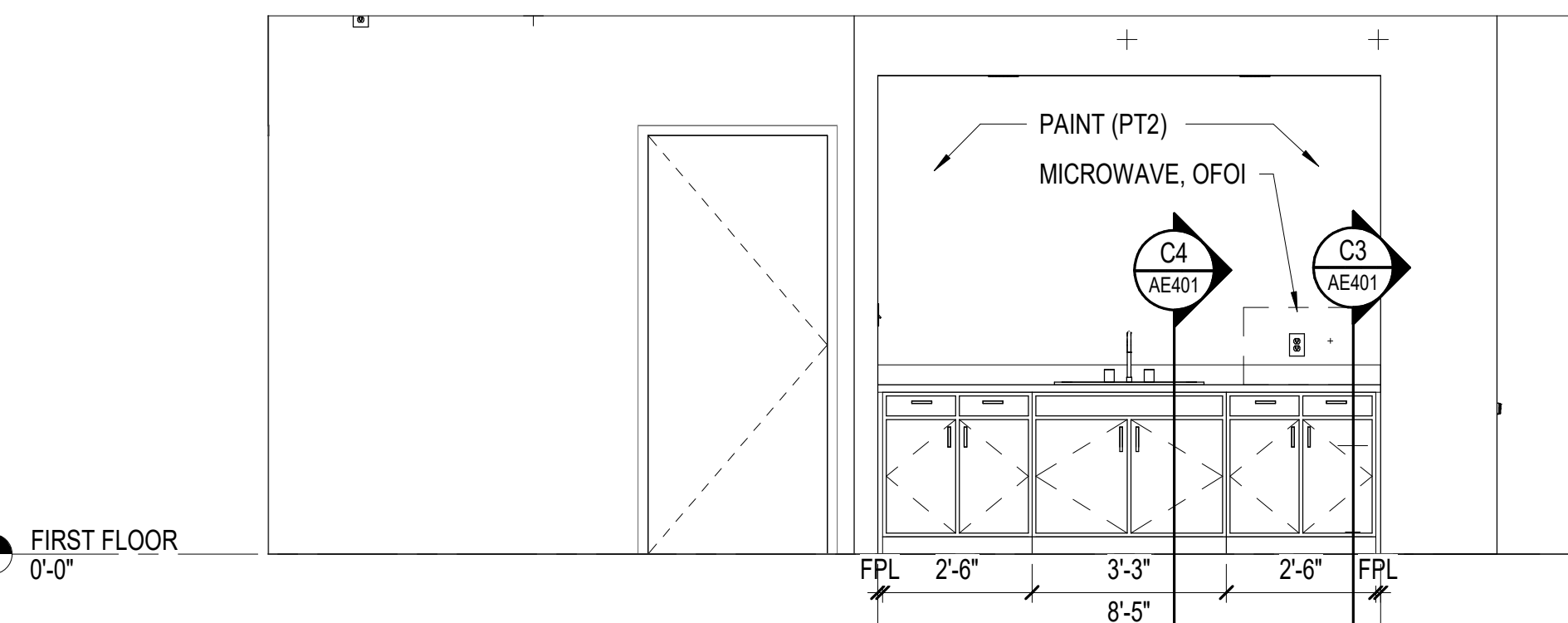
D1 ELEVATION  
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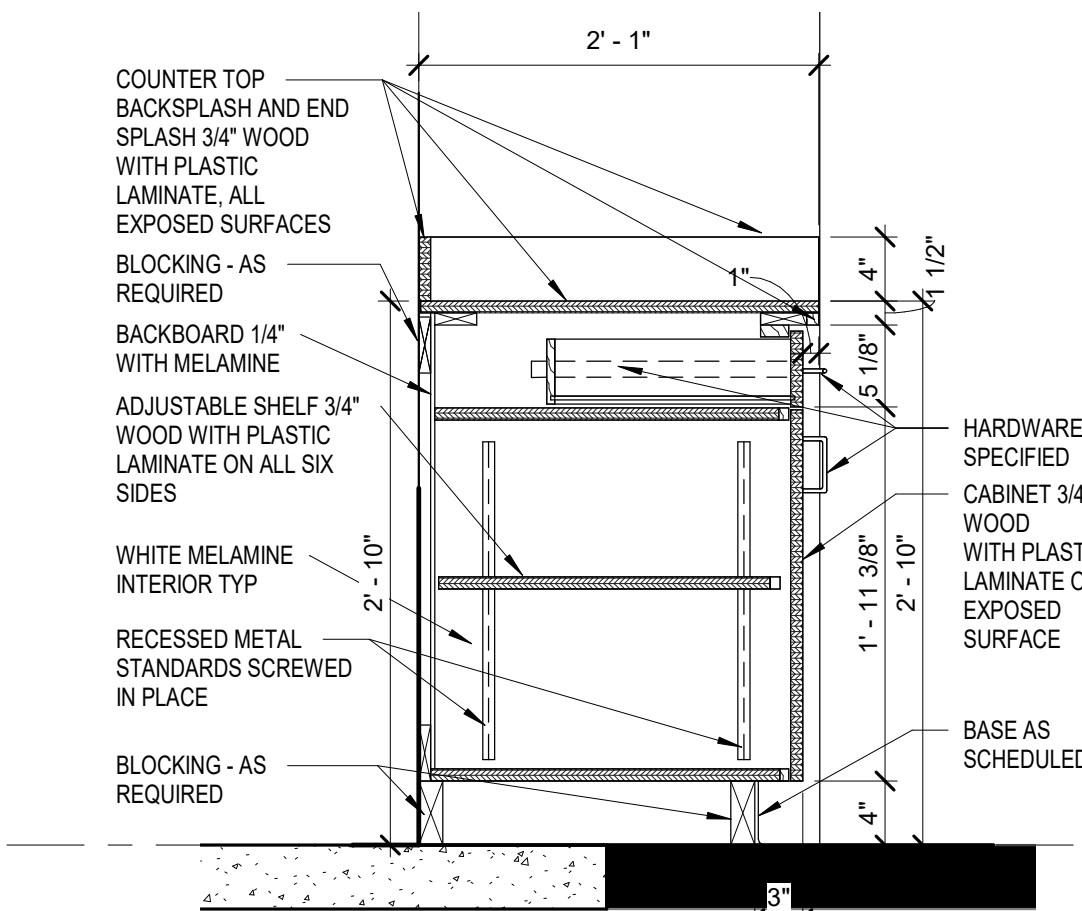
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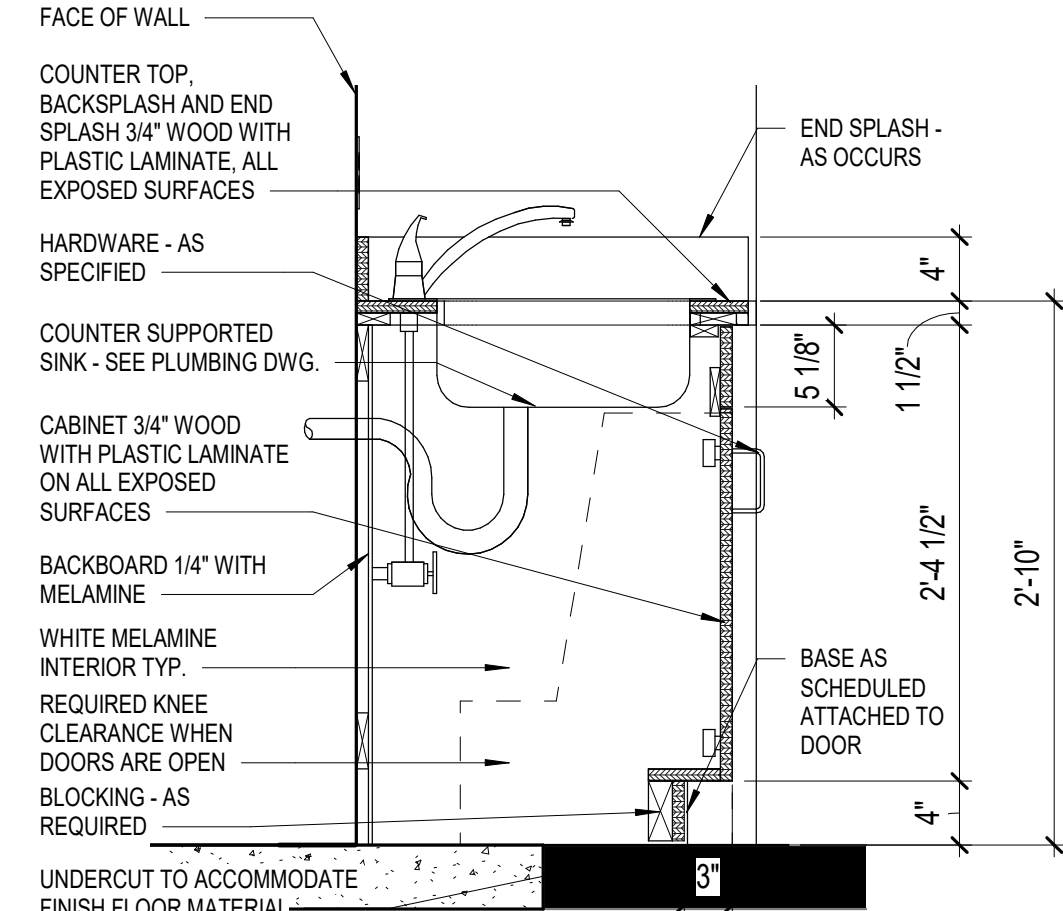
D4 ELEVATION  
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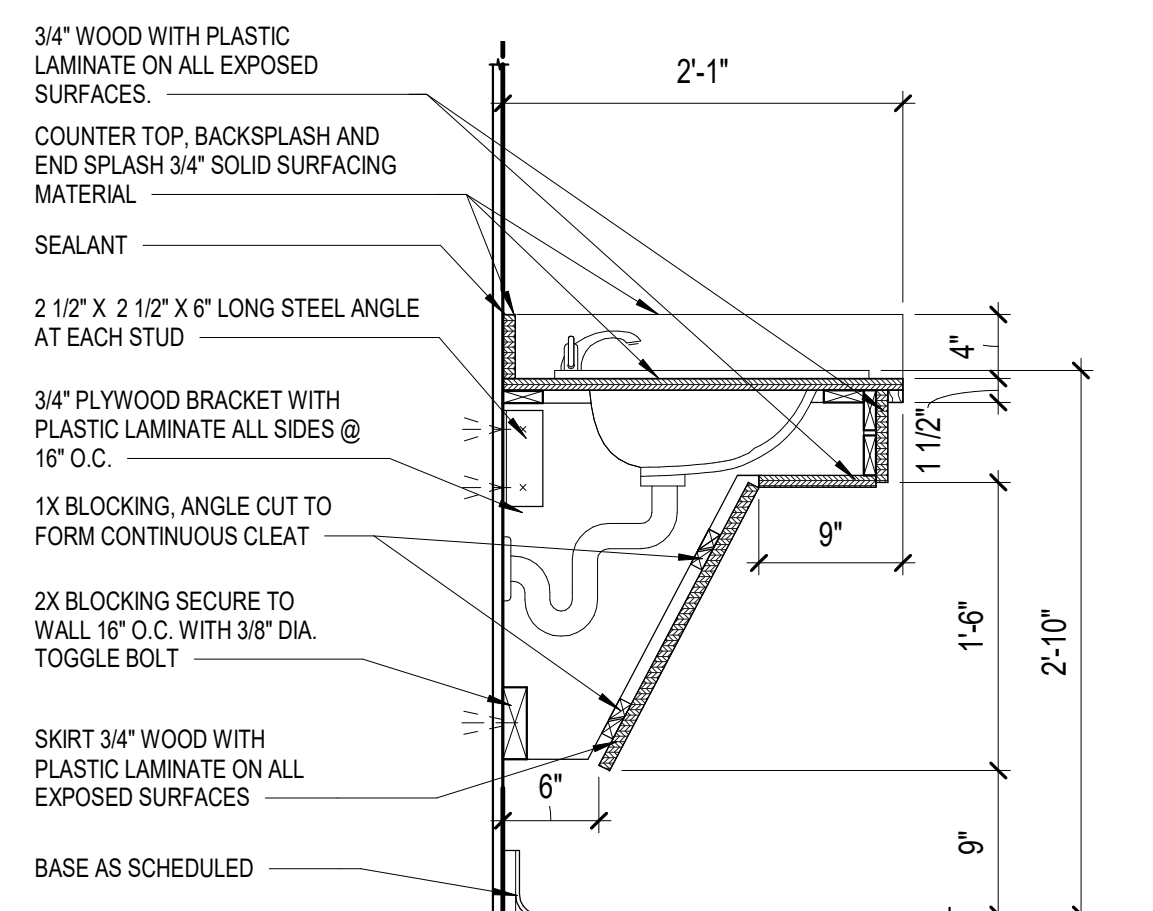
C1 KITCHENETTE ELEVATION  
SCALE: 3/8" = 1'-0" AE401



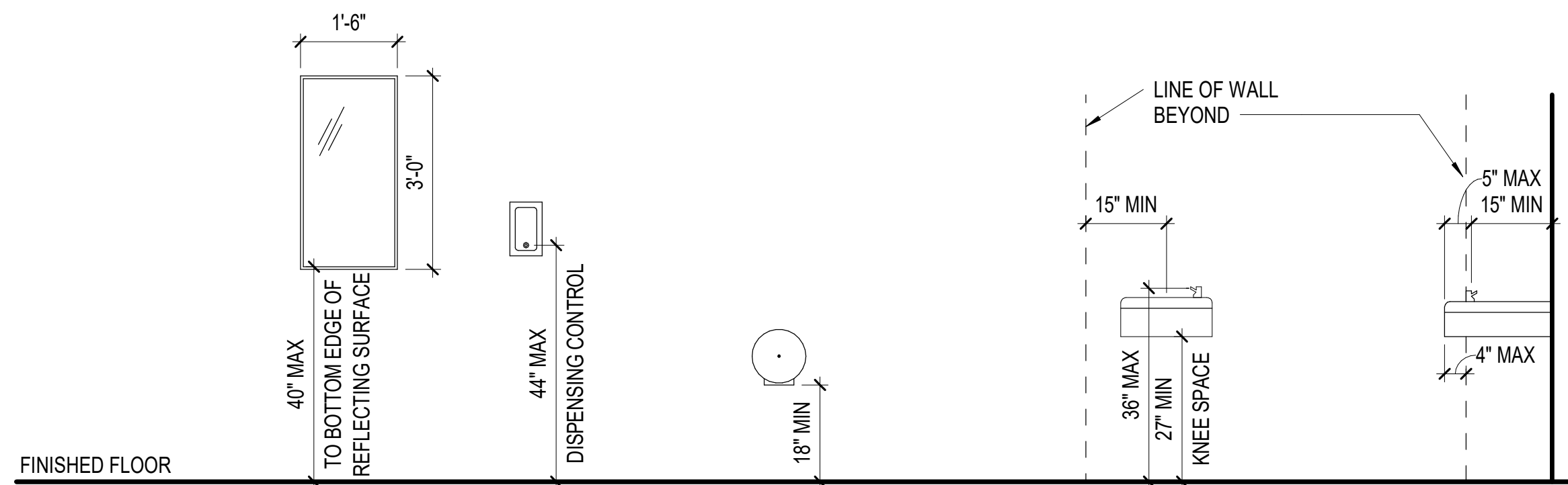
C3 CASEWORK SECTION  
SCALE: 1" = 1'-0" AE401



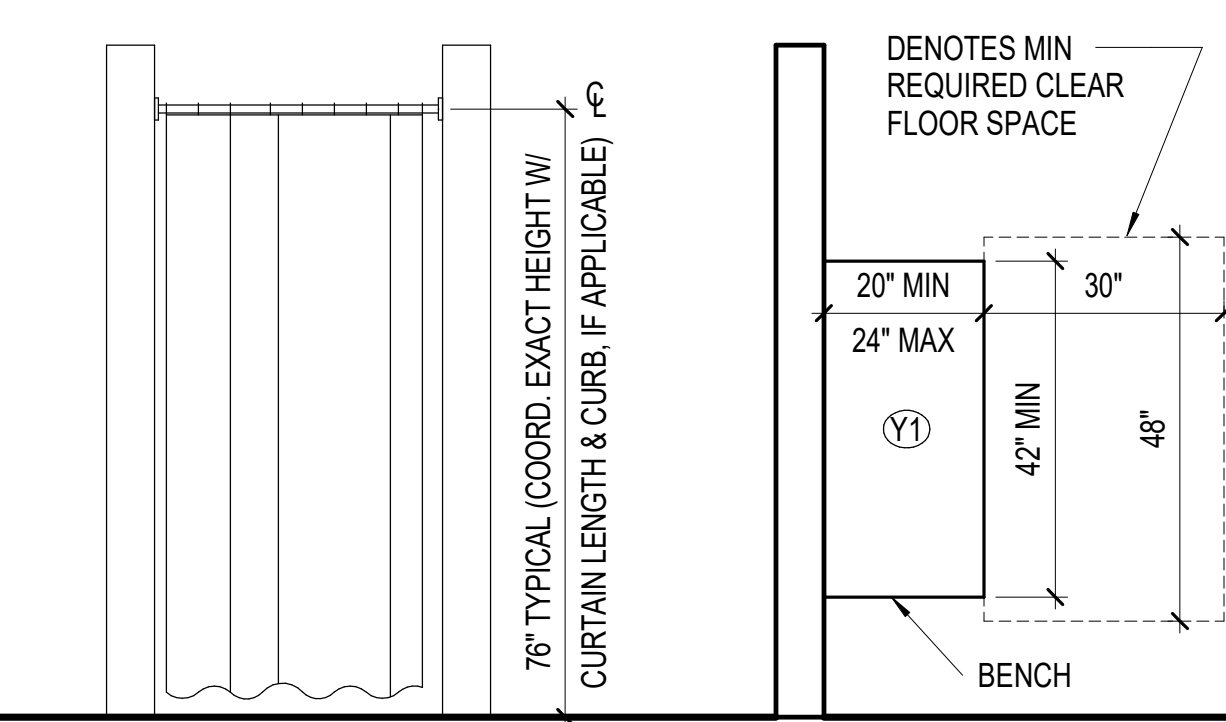
C4 CASEWORK SECTION  
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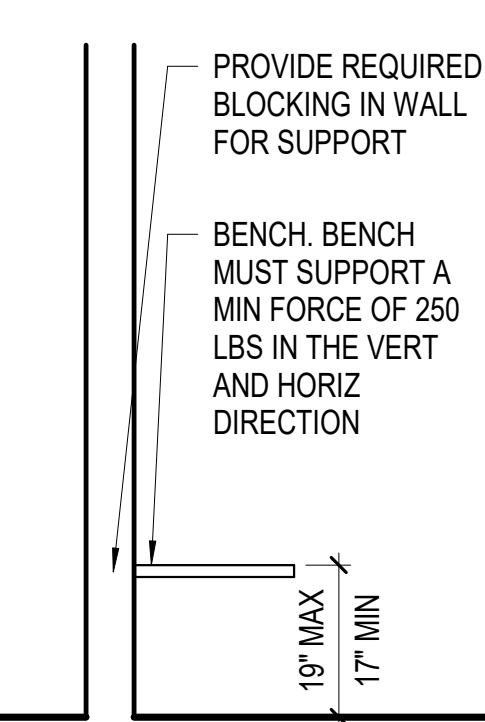
C5 SINK SECTION  
SCALE: 1" = 1'-0" AE401



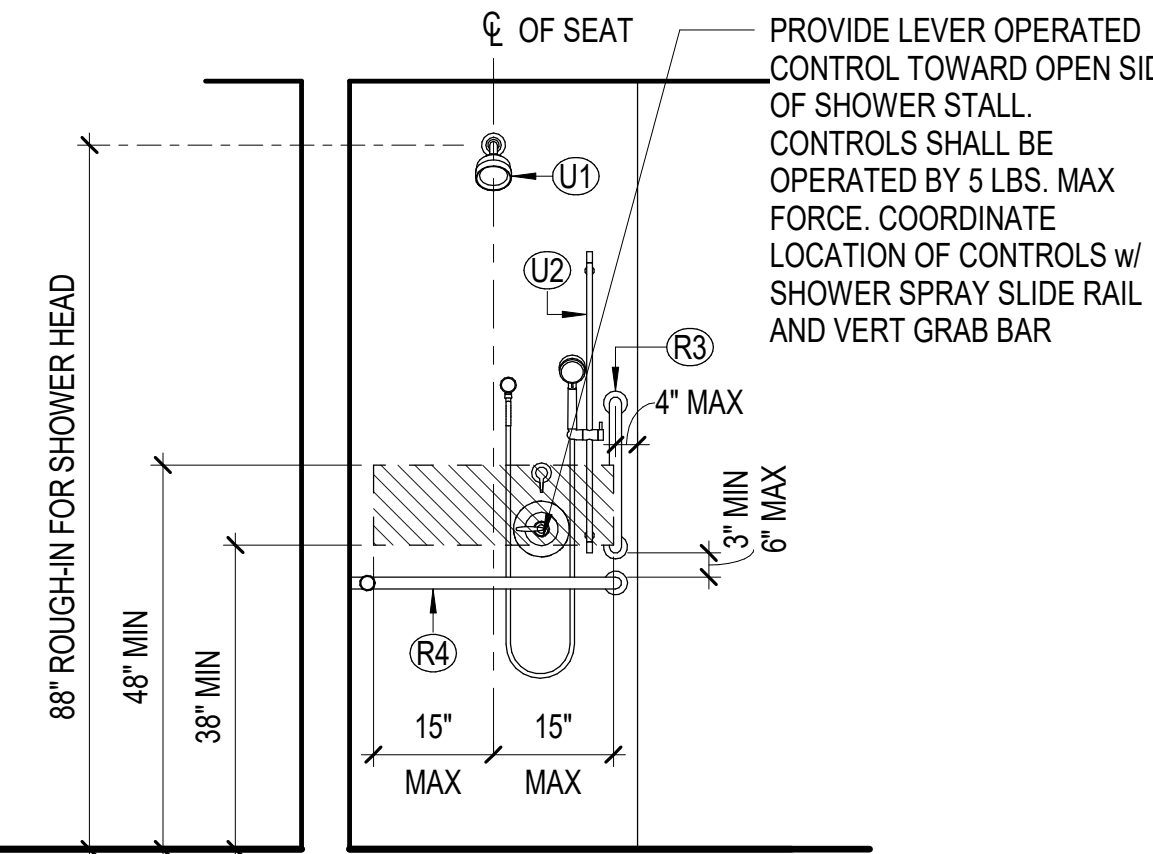
A2 MIRROR w/ FRAME, ABOVE COUNTER  
SCALE: 1/4" = 1'-0" AE101



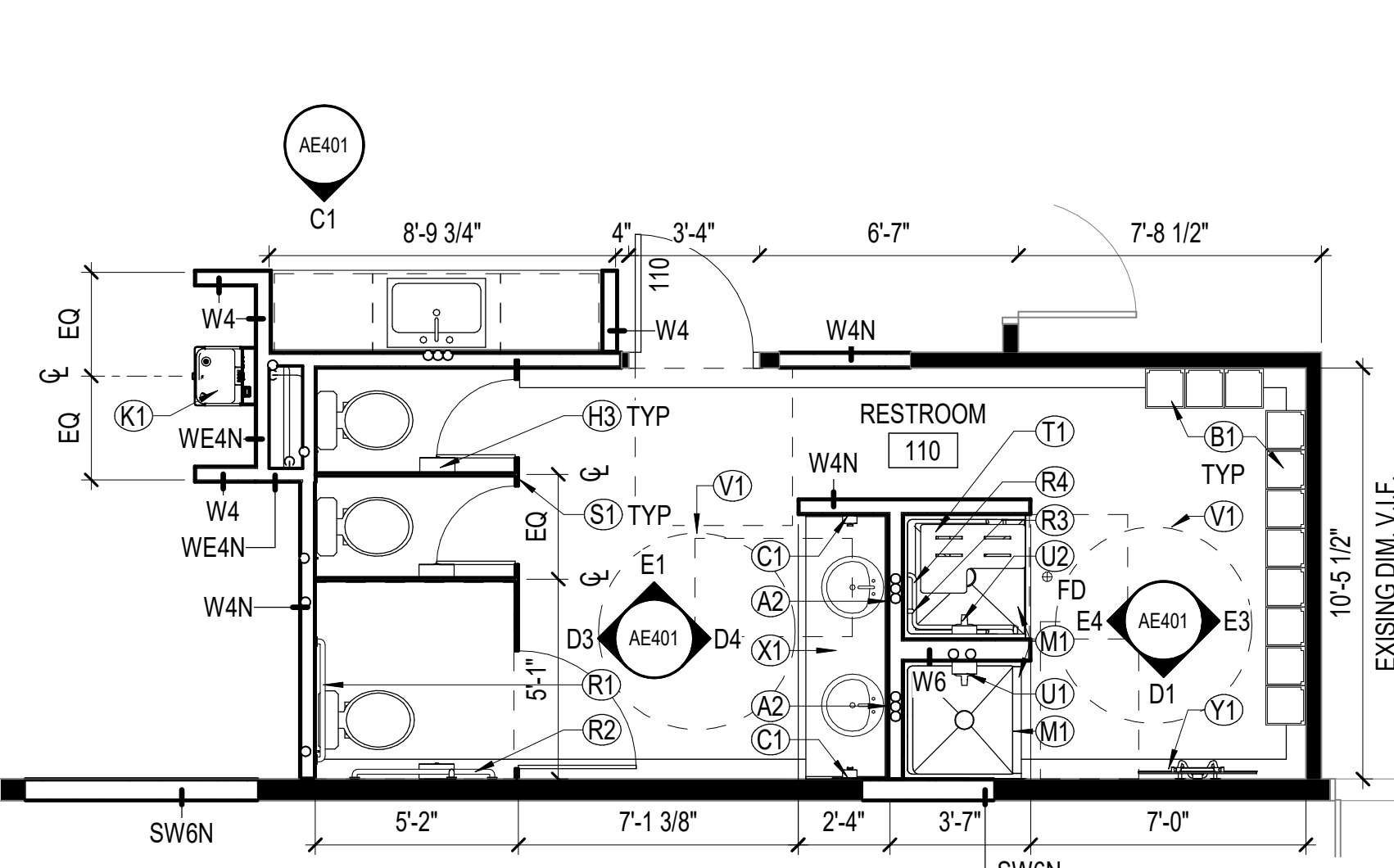
A3 SHOWER CURTAIN ROD w/ HOOKLESS SHOWER CURTAIN  
SCALE: 1/2" = 1'-0" AE101



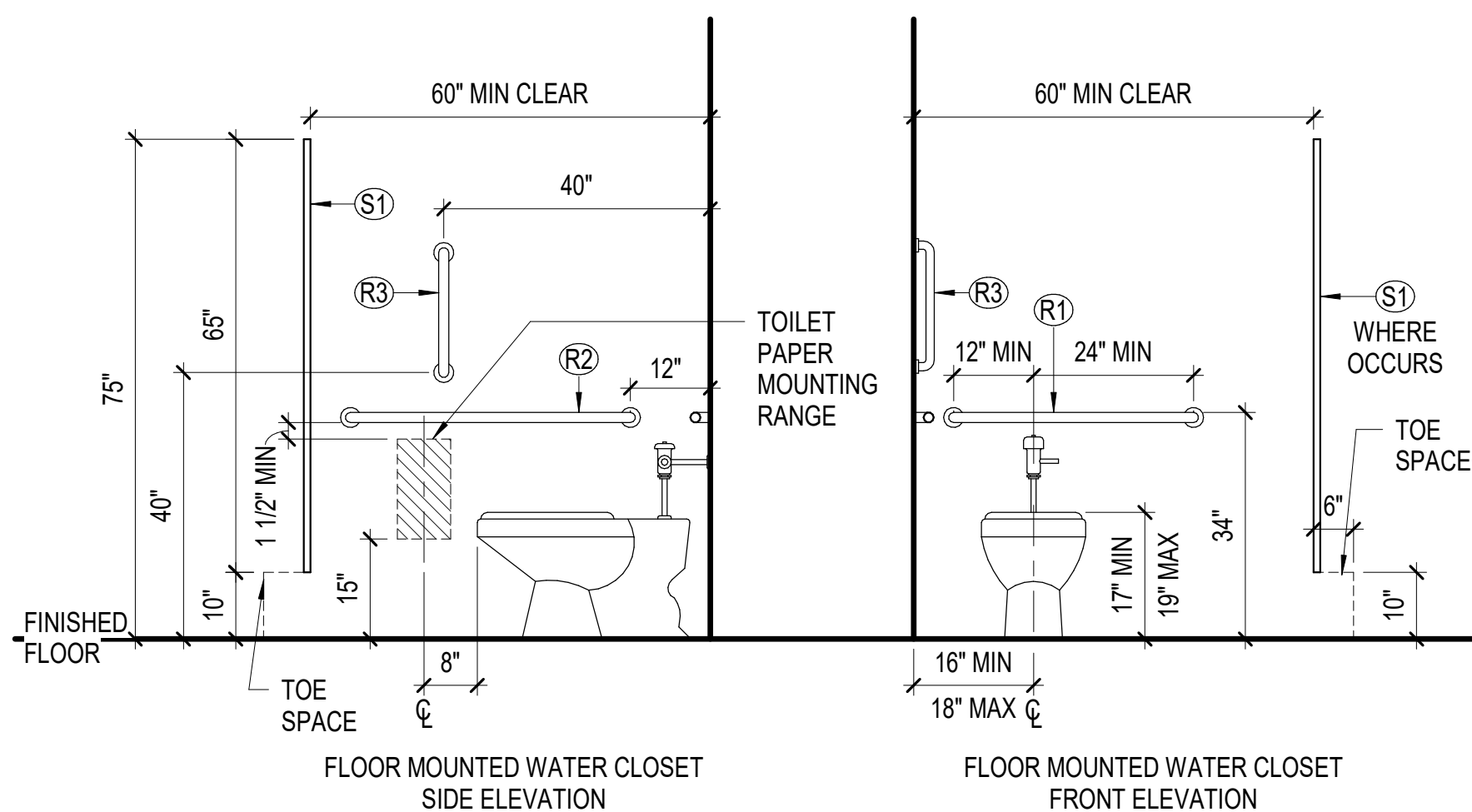
A4 BENCH  
SCALE: 1/2" = 1'-0" AE101



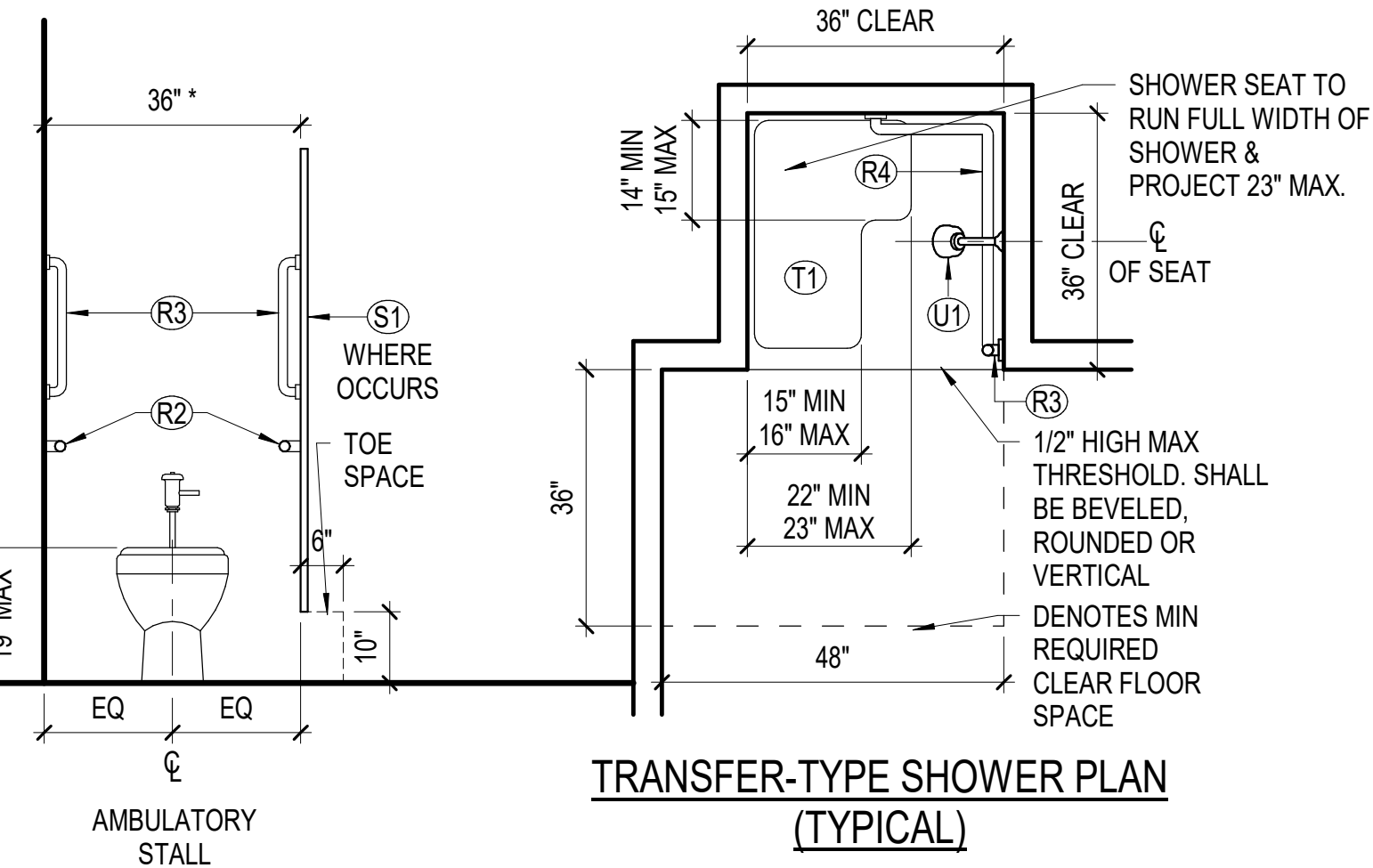
A5 TRANSFER-TYPE SHOWER ELEVATION  
SCALE: 1/2" = 1'-0" AE101



A1 WOMEN'S RESTROOM  
SCALE: 1/4" = 1'-0" AE101



A2 SPECIALTIES AND PLUMBING FIXTURES - MOUNTING HEIGHTS AND CLEARANCES  
SCALE: 1/2" = 1'-0" AE101



A3 TRANSFER-TYPE SHOWER PLAN  
SCALE: 1/2" = 1'-0" AE101

## GENERAL NOTES

- SEE SPECIFICATIONS FOR SPECIALTY MODELS & SHEET AE401 FOR TYPICAL MOUNTING HEIGHTS AND CLEARANCES.
- ALL PARTITIONS ARE TYPE W4N UNLESS OTHERWISE NOTED. REFER TO SHEET AE501 FOR PARTITION TYPE DESCRIPTIONS.
- REFER TO PLUMBING DRAWINGS FOR LOCATION OF HOSE BIBS.
- REFER TO RCP SHEETS FOR ALL CEILING HEIGHT & MATERIAL DESIGNATIONS IN TOILET ROOMS.
- GC TO PROVIDE & INSTALL ALL BLOCKING IN WALLS.
- \* = DENOTES AN ABSOLUTE DIMENSION AND IS INCLUSIVE OF ANY APPLIED FINISHES.
- SPECIALTIES AND FIXTURE MOUNTING HEIGHTS ARE BASED UPON 2010 ADAAG, ANSI A117.1 - 2009 AND 2012 NC BUILDING CODE. IT WILL BE THE RESPONSIBILITY OF THE GC TO ENSURE THAT ALL PLUMBING FIXTURES AND SPECIALTIES ARE INSTALLED IN ACCORDANCE WITH THESE GUIDELINES AND CODES.
- HORIZONTAL GRAB BARS IN TOILET & SHOWERS TO BE MOUNTED SO THAT THE TOP OF THE GRIPPING SURFACE IS AT 33" MIN / 36" MAX AFF.
- FLUSH CONTROLS SHALL BE LOCATED AT 44" MAX ABOVE FINISHED FLOOR ELEVATION AT WIDE SIDE OF WATER CLOSET.
- HIGHEST CONTROL, OPERATING MECHANISM OR DISPENSING SLOT OF ALL SPECIALTIES SHALL BE 48" MAX ABOVE FINISHED FLOOR.
- ALL OPERATING MECHANISMS SHALL REQUIRE 5 LB. MAX OPERATING FORCE.
- OBJECTS WITH LEADING EDGES MORE THAN 27" ABOVE FINISHED FLOOR AND NOT MORE THAN 80" ABOVE FINISHED FLOOR SHALL PROTRUDE 4" MAX HORIZONTALLY INTO THE CIRCULATION PATH.
- DIAMETER OF THE GRIPPING SURFACE OF A HANDRAIL MUST BE 1 1/4" - 1 1/2". THE SPACE BETWEEN A WALL AND A GRAB BAR MUST BE 1 1/2".

## # SHEET KEYNOTES

- A2 18"x36" PLATE GLASS MIRROR
- B1 12X12 PLASTIC LOCKERS
- C1 SURFACE MOUNTED SOAP DISPENSER, OFCI
- H3 SURFACE / PARTITION MOUNTED TOILET PAPER HOLDER, OFCI
- K1 ADA HEIGHT ELECTRIC WATER COOLER
- M1 SHOWER CURTAIN ROD w/ HOOKLESS SHOWER CURTAIN
- R1 36" GRAB BAR
- R2 42" GRAB BAR
- R3 18" VERTICAL GRAB BAR
- R4 TWO-WALL SHOWER GRAB BAR
- S1 FLOOR MOUNTED, OVERHEAD BRACED TOILET PARTITIONS
- T1 FOLDING SHOWER SEAT (TOP OF SEAT TO BE AT 17" MIN / 19" MAX AFF AND PROVIDE 250 LBS. MIN LOAD SUPPORT)
- U1 WALL MOUNTED SHOWER HEAD
- U2 FLEXIBLE HAND HELD SHOWER SPRAY w/ 59" MIN LENGTH, PER ADA
- V1 60" DIA. CLEAR FLOOR SPACE
- X1 SOLID SURFACE COUNTER TOP w/ FIELD APPLIED BACKSPLASH AND SIDESPLASHES (REFER TO DETAIL C5/AE401)
- Y1 42"W x 24"D x 18"H FOLD DOWN WOOD BENCH

CARTERET COMMUNITY COLLEGE

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DESIGNER

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CLARK NEXSEN LICENSE NUMBER: C-1028  
PROFESSIONAL SEAL

SUBMITTAL

03/09/2022

## PERMIT DRAWINGS

REVISIONS

KEY PLAN

SHEET

MOUNTING HEIGHTS AND CLEARANCES, ENLARGED PLANS, ELEVATIONS AND DETAILS

## AE401

## GRAPHIC SCALE(S)

3/16" = 1' - 0"

DESIGN: Designer  
DRAWN: Author  
REVIEW: Checker

CN 9568



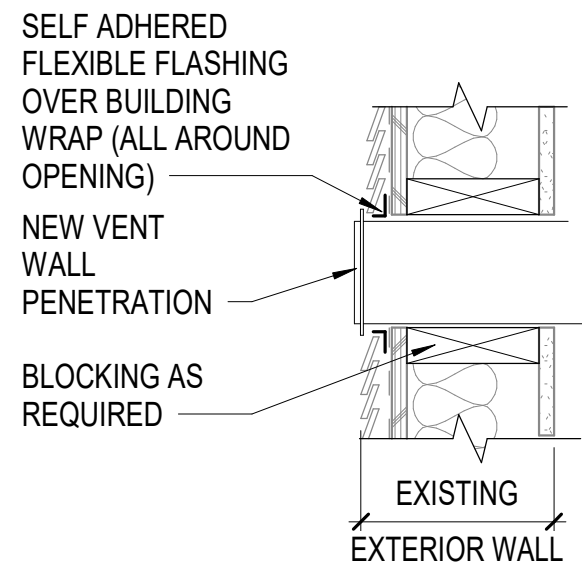
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PARTITION TYPES			
TYPE	SYMBOL	TAG	DESCRIPTION
W - WOOD STUD		W4	2X4 WOOD STUDS WITH 5/8" GWB (EACH SIDE)
WN - WOOD STUD - INSULATED		W4N	2X4 WOOD STUDS WITH 5/8" GWB (EACH SIDE) AND 3 1/2" SOUND ATTENUATION BLANKETS
WE - WOOD STUD ENCLOSURE		WE4	2X4 WOOD STUDS WITH 5/8" GWB (ONE SIDE)
SWN - SIDING OVER WOOD STUD ENCLOSURE		SW6N	PLASTIC SIDING TOOTHED IN OVER SHEATHING (MATCH EXISTING) OVER BUILDING WRAP OVER 2X6 WOOD STUDS OVER 3 1/2" FIBERGLASS BATTS WITH 5/8" GWB

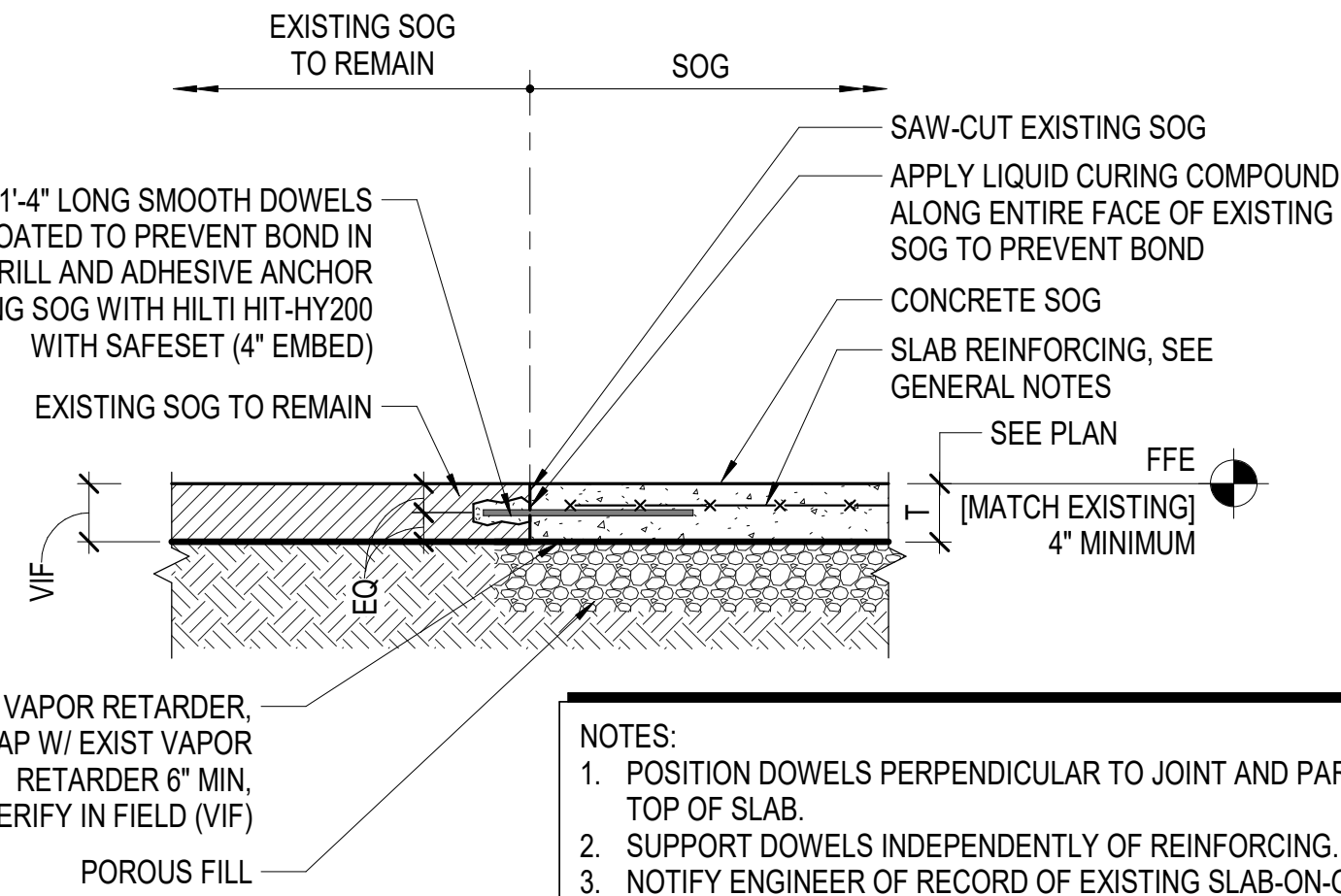
#### GENERAL PARTITION NOTES:

- ALL INTERIOR WALLS SHALL BE W4N, UON.
- PARTITION DIMENSIONING AND PARTITION TYPE DESIGNATIONS ARE INDEPENDENT OF APPLIED FINISHES. REFER TO FINISH SCHEDULE FOR INFORMATION REGARDING APPLIED FINISHES.
- ALL PARTITIONS TO RUN FROM FINISH FLOOR TO UNDERSIDE OF DECK, UON.
- PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING FOR MOUNTING FIXTURES, MILLWORK, SHELVING, HARDWARE, DOOR STOPS AND OTHER EQUIPMENT.
- PROVIDE WATER RESISTANT GWB FULL LENGTH OF TOILET / URINAL WALLS AND WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF SINKS, LAVATORIES AND JANITORS CLOSETS AND ARE NOT SCHEDULED TO RECEIVE TILE OR SHOWER / TUB SURROUNDS.
- ON NON-RATED WALLS SCHEDULED TO RECEIVE TILE OR SHOWER / TUB SURROUNDS, PROVIDE CEMENTITIOUS BACKER BOARD IN LIEU OF GWB.
- DESIGN LOAD CRITERIA:
  - A. PARTITION ALLOWANCE 15 PSF
  - B. COMMONS 100 PSF



#### C1 WALL PENETRATION DETAIL

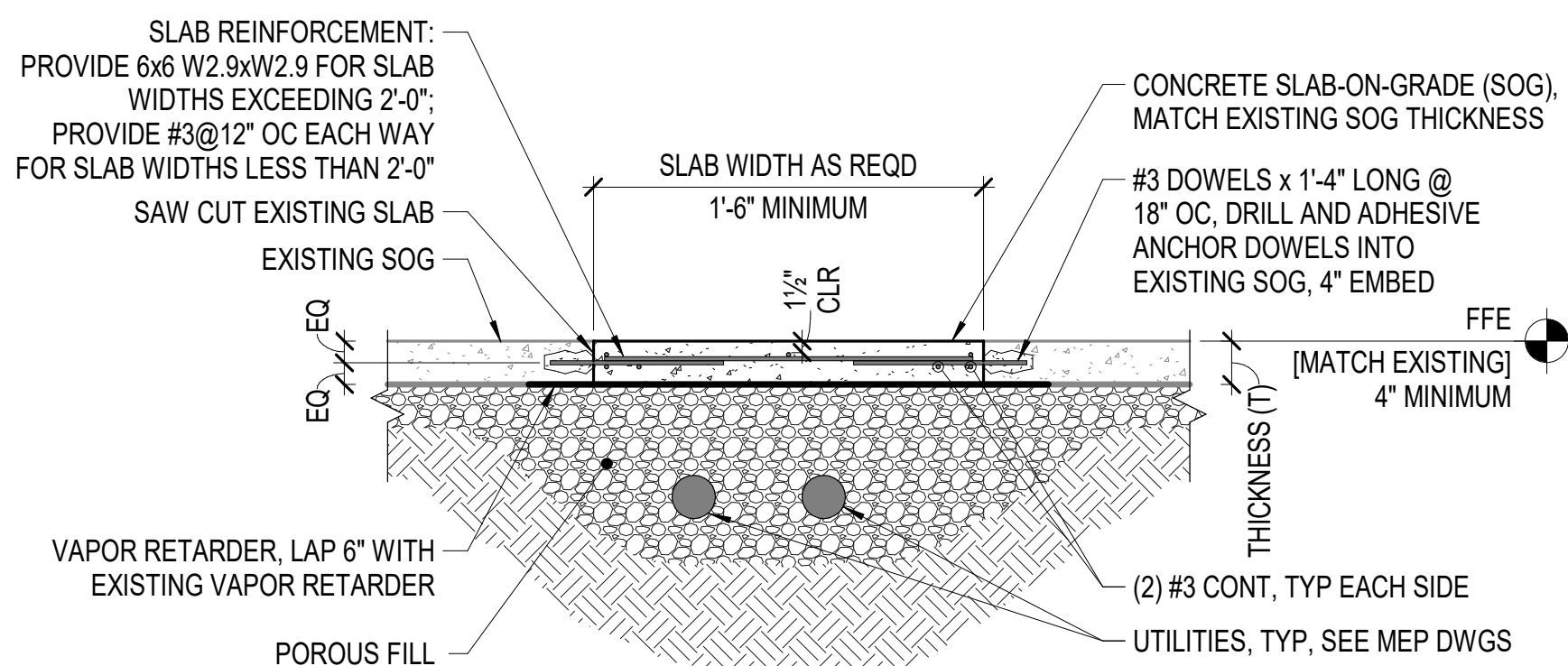
SCALE: 1 1/2" = 1'-0"



- NOTES:
- POSITION DOWELS PERPENDICULAR TO JOINT AND PARALLEL TO TOP OF SLAB.
  - SUPPORT DOWELS INDEPENDENTLY OF REINFORCING.
  - NOTIFY ENGINEER OF RECORD OF EXISTING SLAB-ON-GRADE THICKNESS ONCE VERIFIED.
  - ADHESIVE INSTALLATION MUST FOLLOW STRICT CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

#### B1 TYPICAL SLAB-ON-GRADE CONNECTION TO EXISTING

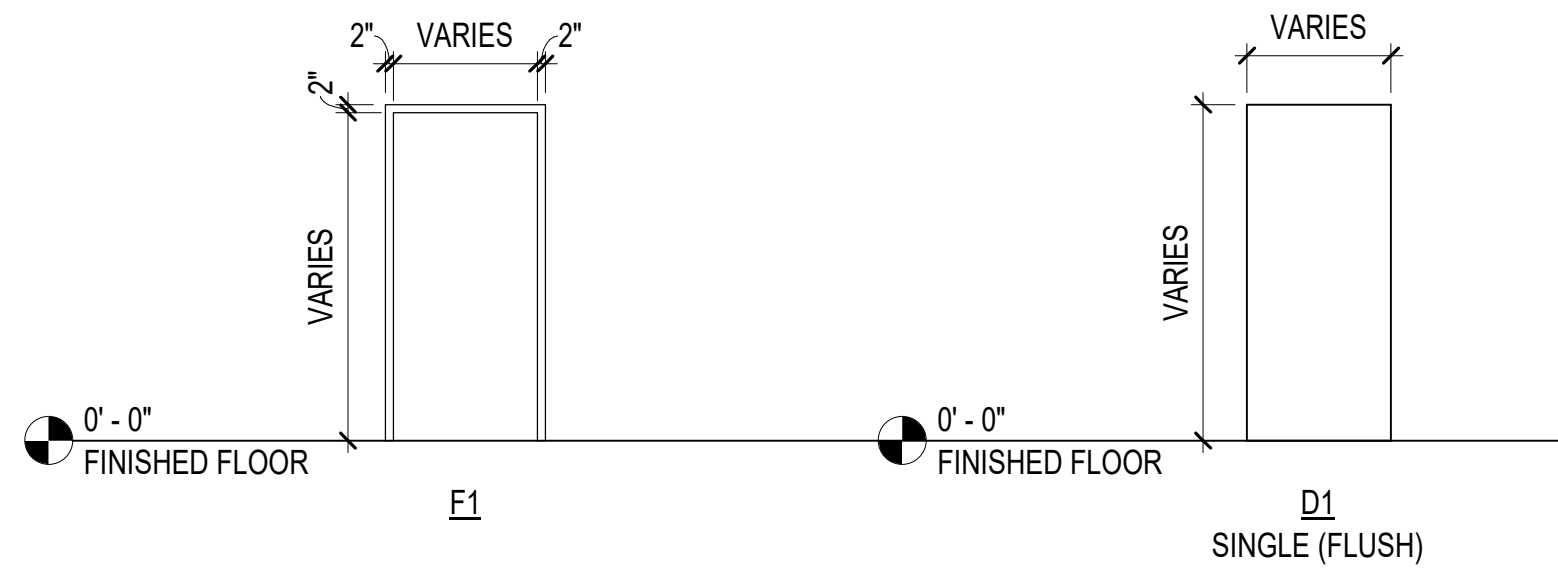
SCALE: 3/4" = 1'-0"



#### A1 TYPICAL SLAB-ON-GRADE REPLACEMENT AT UNDERSLAB UTILITIES

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

DOOR SCHEDULE															
DOOR NO.	ROOM NAME	DOOR					FRAME					FIRE RATING	HARDWARE	COMMENTS	
		TOTAL WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	TYPE	MATERIAL	HEAD	JAMB	SILL				
FIRST FLOOR															
110	RESTROOM	3'-0"	7'-0"	1 3/4"	D1	WD	F1	HM	H1	J1	S1	-	01		



#### DOOR AND FRAME TYPES

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

FINISH SCHEDULE										
ROOM		FLOOR		BASE		WALLS		CEILING		REMARKS
NO.	NAME	MATERIAL	CODE	MATERIAL	CODE	MATERIAL	CODE	MATERIAL	CODE	
110	RESTROOM	PORCELAIN	PRC1	PORCELAIN TILE BASE	PRCB1	PAINT	PT1	ACOUSTICAL CEILING PANEL	APC1	REFER TO ELEVATIONS FOR TILE LOCATION AND HEIGHT
100	COMMONS	EXISTING	EXISTING	RUBBER BASE	RB1	PAINT	PT1, PT2	EXISTING, GWB	GYPSUM WALLBOARD	REFER TO ELEVATION FOR ACCENT PAINT LOCATION

#### FINISH MATERIAL LIST

DESCRIPTION	MANUFACTURER
-------------	--------------

WALL BASE  
RB1 TARKETT: 4" RUBBER COVE BASE, COLOR: MATCH EXISTING  
\*ACCEPTABLE MANUFACTURERS:  
1. ROPPE  
2. MANNINGTON COMMERCIAL

PRCB1 DAL TILE: TBS  
\*ACCEPTABLE MANUFACTURERS:  
1. AMERICAN OLEAN  
2. MOSAIC TILE

PAINT  
PT1 SHERWIN WILLIAMS, COLOR: TBS  
PT2 (ACCENT) SHERWIN WILLIAMS, COLOR: TBS  
PT3 (CEILING) SHERWIN WILLIAMS, COLOR: TBS

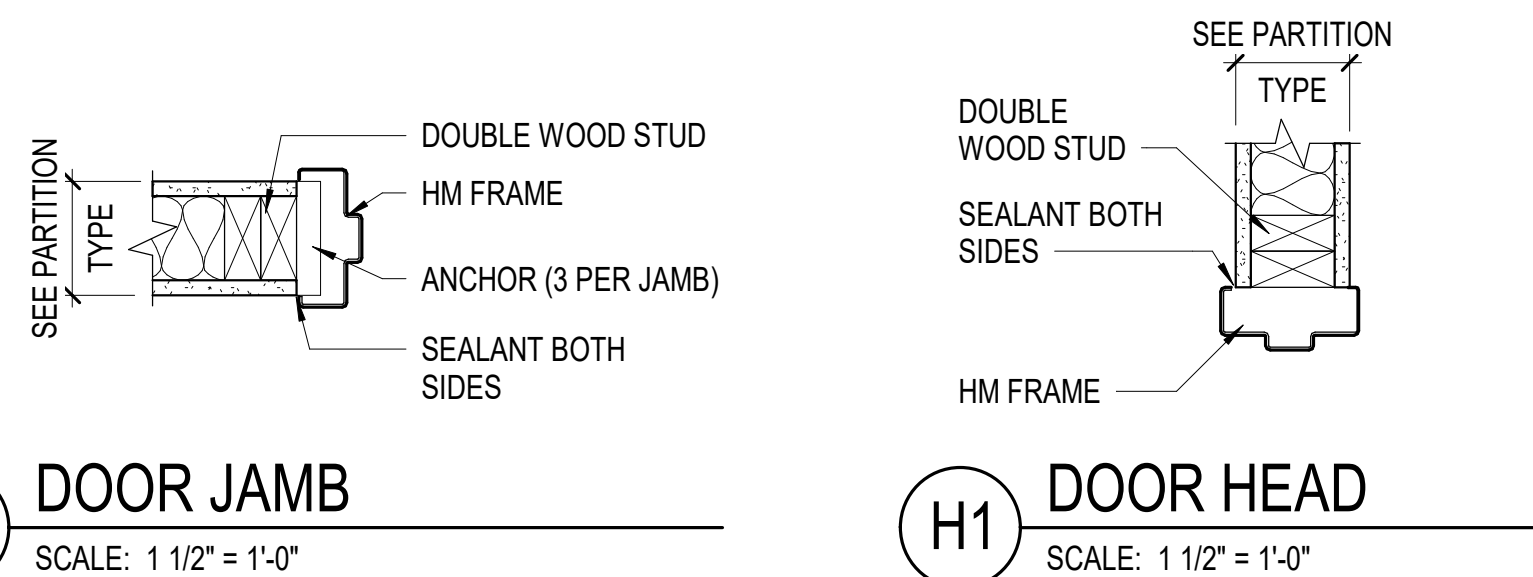
PLASTIC LAMINATE  
PL1 PIONITE, COLOR: TBS  
\*ACCEPTABLE MANUFACTURERS:  
1. FORMICA  
2. WILSONART

SOLID SURFACE  
SSM1 WILSONART CORIAN, COLOR: TBS  
\*ACCEPTABLE MANUFACTURERS:  
1. DUPONT  
2. FORMICA

CEILING TILES  
ACT1 ARMSTRONG: TBS  
\*ACCEPTABLE MANUFACTURERS:  
1. USG  
2. ROCKFON

FLOOR TILE  
PRC1 DAL TILE: TBS  
\*ACCEPTABLE MANUFACTURERS:  
1. AMERICAN OLEAN  
2. MOSAIC TILE

PLASTIC TOILET PARTITIONS:  
GENERAL PARTITIONS, COLOR: TBS

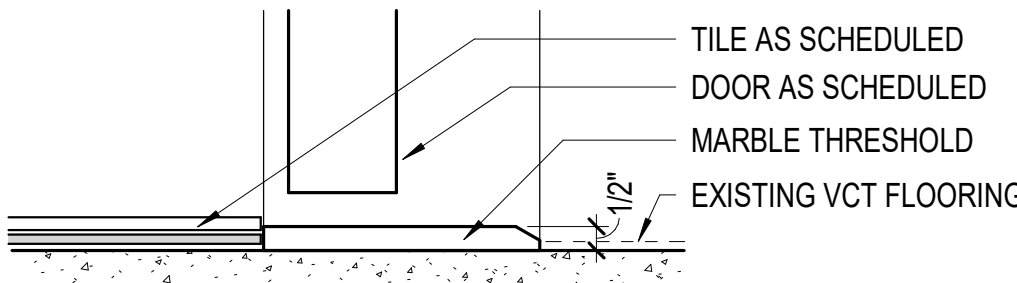


#### J1 DOOR JAMB

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

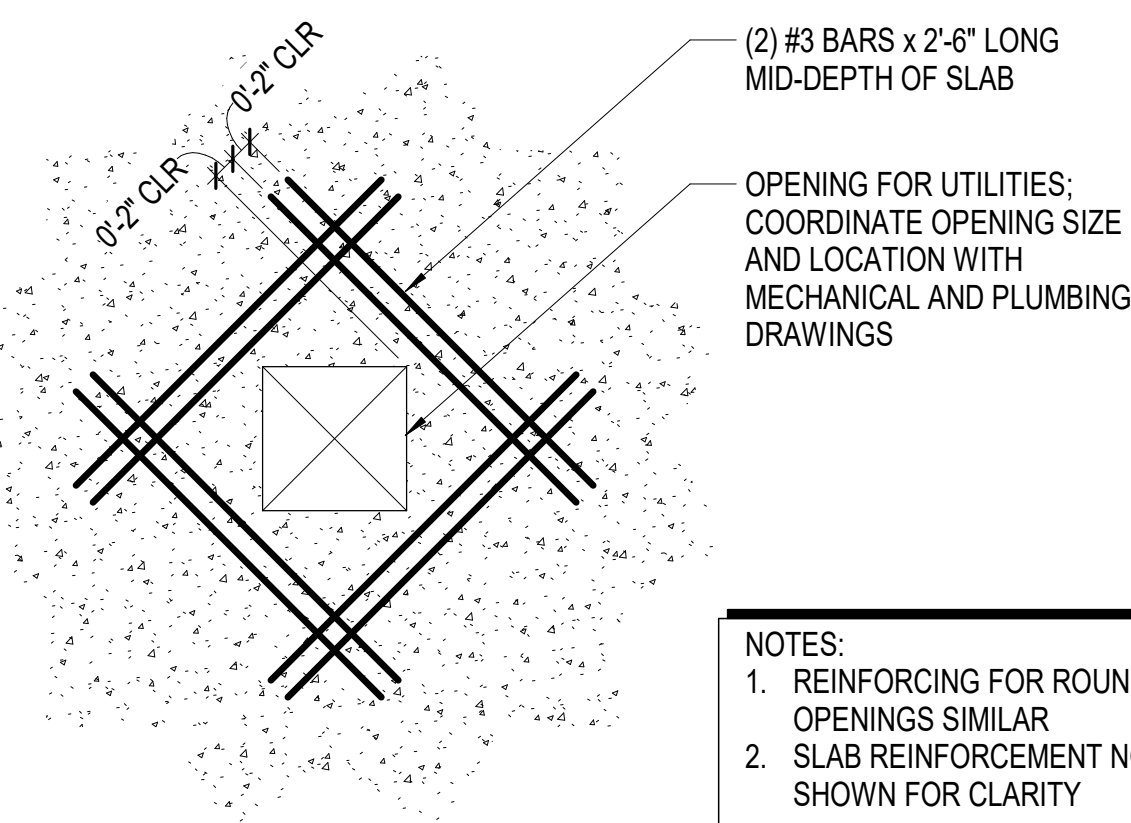
#### H1 DOOR HEAD

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



#### S1 TRANSITION VCT TO TILE

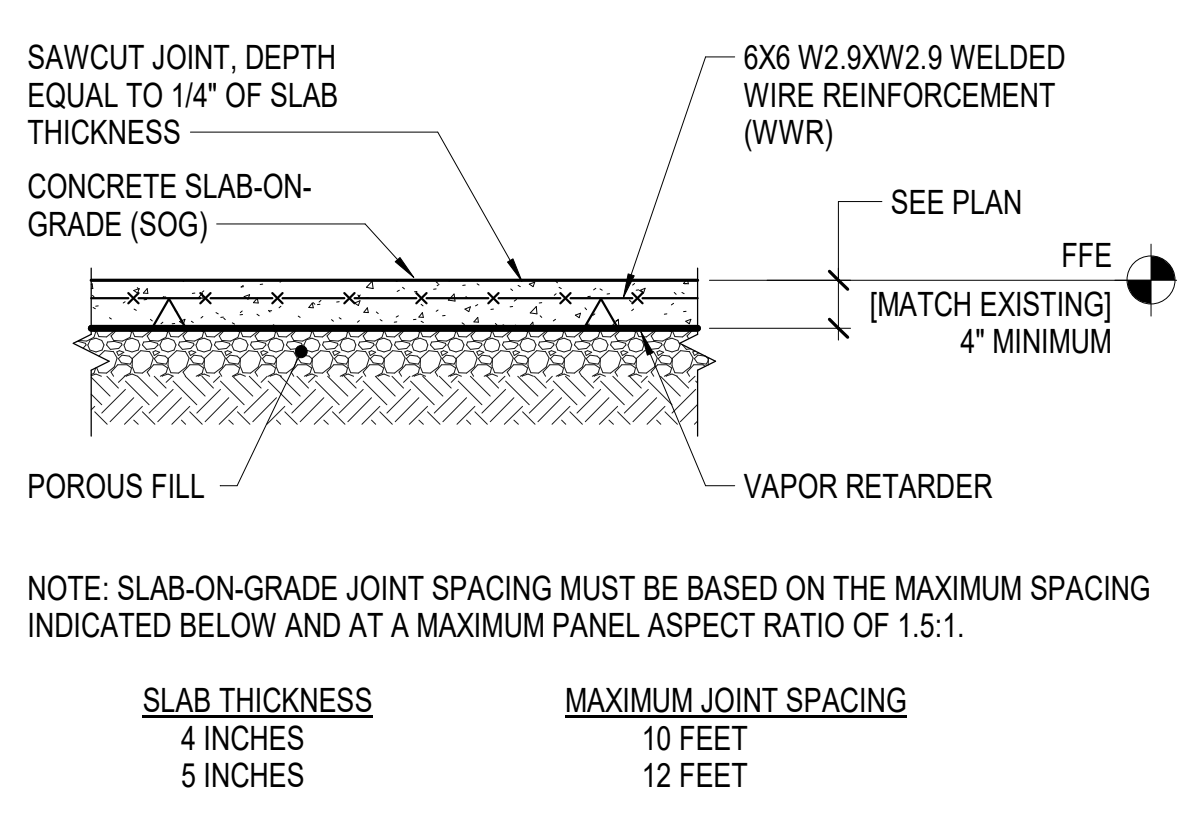
SCALE: 3" = 1'-0"



- NOTES:
- REINFORCING FOR ROUND OPENINGS SIMILAR
  - SLAB REINFORCEMENT NOT SHOWN FOR CLARITY

#### A2 TYPICAL REINFORCING AROUND UTILITY OPENING

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

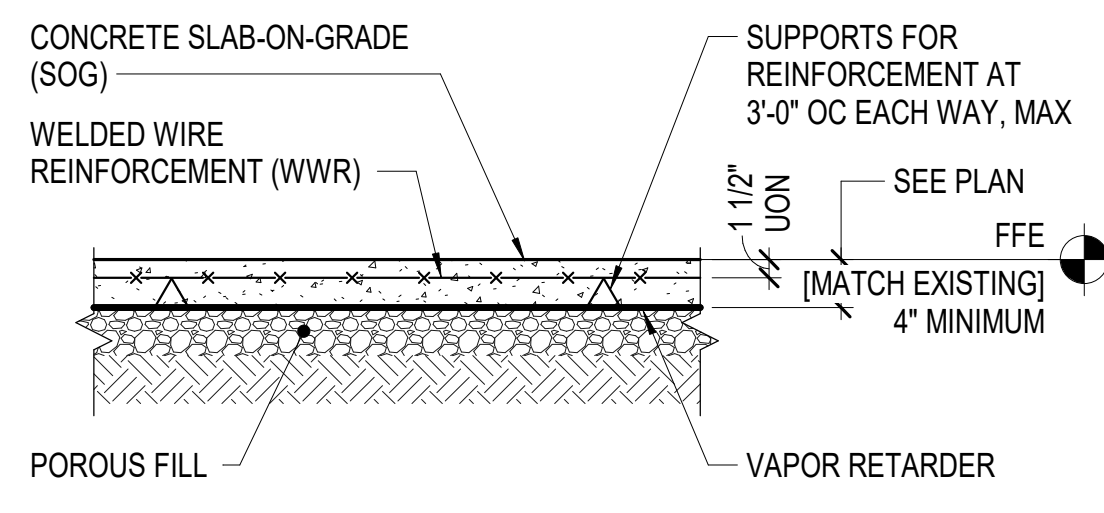


NOTE: SLAB-ON-GRADE JOINT SPACING MUST BE BASED ON THE MAXIMUM SPACING INDICATED BELOW AND AT A MAXIMUM PANEL ASPECT RATIO OF 1.5:1.

SLAB THICKNESS	MAXIMUM JOINT SPACING
4 INCHES	10 FEET
5 INCHES	12 FEET

#### A4 TYPICAL SLAB-ON-GRADE SAWED (CONTRACTION) JOINT (SOG)

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



#### A5 TYPICAL SLAB-ON-GRADE (SOG)

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

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## PERMIT DRAWINGS

REVISIONS

KEY PLAN

SHEET

PARTITION TYPES, DETAILS,  
DOOR SCHEDULE, DOOR  
DETAILS, FINISH SCHEDULE  
AND LEGEND

# AE501

DESIGN: Designer  
DRAWN: Author  
REVIEW: Checker

CN 9568



A

B

C

D

E

1

PLUMBING SPECIFICATIONS

1. GENERAL NOTES WITHIN THESE DOCUMENTS ARE APPLICABLE TO EACH PLUMBING DRAWING OF THIS SET. NOTES SPECIFIC TO INDIVIDUAL PLUMBING DRAWINGS WILL BE SHOWN ON THAT RESPECTIVE DRAWING.
2. CONTRACTOR SHALL NOT ALLOW ON-SITE ACCUMULATION OF DEBRIS OR DEMOLISHED MATERIALS. PROMPTLY AND LEGALLY TRANSPORT AND DISPOSE OF MATERIALS OFF-SITE. DO NOT BURN DEBRIS OR DEMOLISHED MATERIALS. ALL DISPOSAL COSTS TO BE BORNE BY CONTRACTOR.
3. OPENINGS THRU WALLS, FLOORS AND ROOFS SHALL BE FLASHED AND SEALED WATER TIGHT. PENETRATIONS THROUGH SMOKE OR FIRE-RATED WALLS AND/OR PARTITIONS SHALL BE SEALED TO MAINTAIN RATING PER ASTM E-814 AND BUILDING CODE REQUIREMENTS. DO NOT CUT STRUCTURAL ELEMENTS WITHOUT PRIOR APPROVAL OF THE ENGINEER AND THE OWNER.
4. UNLESS OTHERWISE INDICATED, ALL PIPING SHALL BE RUN IN CONCEALED SPACES IN WALLS, IN CHASES OR BETWEEN CEILINGS AND INSULATION ABOVE. PIPES SHALL BE RUN AT RIGHT ANGLES OR PARALLEL LINES WITH BUILDING WALLS AND ROUTED WITH STRUCTURAL MEMBERS IN EXPOSED AREAS. PLUMBING SHALL COORDINATE WITH MECHANICAL DUCTWORK IN ALL CHASES. SUPPORT ALL INTERIOR PIPING FROM BUILDING STRUCTURE BY MEANS OF PIPE STANDS, HANGERS OR INSERTS TO MAINTAIN REQUIRED GRADING AND PITCHING OF LINES TO PREVENT VIBRATION AND TO SECURE PIPING IN PLACE. SOIL WASTE AND VENT STACKS SHALL BE SUPPORTED AT THE BASE BY MEANS OF PIERS OR HEAVY-DUTY HANGERS CLOSE TO THE BOTTOM OF RISERS AND SECURED AT EACH FLOOR BY MEANS OF HEAVY-DUTY IRON RISER CLAMPS. PROTECT COPPER PIPING AGAINST CONTACT WITH MASONRY OR DISSIMILAR METALS. HANGERS, SUPPORTS, ANCHORS AND CLIPS SHALL BE COPPER OR COPPER PLATED.
5. FLAT WALL CLEANOUT COVERS SHALL BE FLUSH WITH FINISHED WALL SURFACE. DEEP COVERS ARE NOT ACCEPTABLE. EXPOSED PIPING CONNECTIONS IN OCCUPIED SPACES SHALL BE CHROME PLATED. PAINTING OF PIPING AND PIPING SUPPORTS SHALL BE INCLUDED PER ARCHITECT'S SPECIFICATIONS AND COLORS. HANGER SPACING SHALL BE IN ACCORDANCE WITH MSS STANDARDS AND PIPE MANUFACTURERS' WRITTEN INSTRUCTIONS.
6. CONTRACTOR SHALL PROVIDE INSULATION ON ALL ABOVEGROUND WATER PIPING. INSULATION SHALL BE 1" FOR COLD WATER, HOT WATER, HOT WATER RETURN AND GRAVITY DRAINAGE. INSULATION SHALL BE HIGH-DENSITY FIBERGLASS WITH ALL-SERVICE JACKET, OR EQUIVALENT SELF-ADHERING CELLULAR (FOAM) GLASS TUBE INSULATION. EXPOSED PIPING SHALL HAVE A PVC JACKET. PIPE SHELDS/SADDLES SHALL BE PROVIDED AT ALL HANGERS & PIPE STANDS.
7. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THAT OF OTHER TRADES. COORDINATE WITH MECHANICAL DUCTWORK IN CHASES. INTERRUPTIONS OF SERVICES SHALL BE COORDINATED WITH THE OWNER AT LEAST 48 HOURS IN ADVANCE OF THE WORK BEING PERFORMED. DISRUPTION TIME SHALL BE KEPT TO A MINIMUM.
8. WORK SHALL BE PERFORMED BY SKILLED WORKERS IN ACCORDANCE WITH REQUIREMENTS AND PROVISIONS OF OSHA, THE STATE LABOR BOARD, BUILDING CODES AND GENERALLY ACCEPTED GOOD PRACTICE. KEEP SITE ORDERLY AND CLEAN AT ALL TIMES. WHEN COMPLETE, CLEAN AND REPAIR THE ENTIRE WORK AREA TO RESTORE TO ORIGINAL CONDITIONS, OR BETTER.
9. THE DRAWINGS ARE INTENDED TO COVER THE COMPLETE PLUMBING SYSTEMS. HOWEVER, THE DRAWINGS MAY NOT SHOW COMPLETE OR ACCURATE DETAILS OF THE BUILDING OR SYSTEMS IN EVERY RESPECT. MAKE PROPER PIPING CONNECTIONS TO FIXTURES AND EQUIPMENT EVEN THOUGH BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING SERVICES AND CONNECTION POINTS. CONTRACTOR SHALL FIELD CONFIRM ALL PIPE SIZES AND LOCATIONS, AND ALL DIMENSIONS AND ELEVATIONS, AND OBTAIN ANY ADDITIONAL INFORMATION AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND PAYING ALL FEES FOR UTILITY LOCATOR SERVICE TO LOCATE PUBLIC AND PRIVATE UTILITIES AND UNDERGROUND STRUCTURES BEFORE DIGGING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES INCURRED AS A RESULT OF THIS WORK. ALL DISCOVERIES SHALL BE ACCURATELY SHOWN ON THE RECORD DRAWINGS.
11. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY THE CONTRACTOR OR OF THE SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL TO THE WORK OF THE CONTRACTOR TO PERFORM THE CONSTRUCTION WORK IN ACCORDANCE WITH OSHA, APPLICABLE CODES, THE DRAWINGS AND SPECIFICATIONS.
12. SANITARY TIE-INS SHALL BE MADE WITH SANITARY TEES IN THE VERTICAL AND WYES IN THE HORIZONTAL. THE BRANCH CONNECTIONS TO SEWER MAINS IN UPPER HALF OF MAIN, UNLESS NOTED OTHERWISE ON THE DRAWINGS. SANITARY PIPE CONNECTIONS SHALL NOT BE REDUCED IN SIZE WITHOUT PRIOR APPROVAL OF THE ENGINEER. WATER PIPING CONNECTIONS SHALL BE MADE WITH ALL COPPER FITTINGS OF THE SIZES INDICATED. IF EXISTING IS FOUND TO BE OF DISSIMILAR METALS, PROVIDE DIELECTRIC UNIONS OR OTHER NON-CONDUCTIVE MEANS TO PREVENT ELECTROLYSIS.
13. CONTRACTOR SHALL INSTALL FIXTURES, EQUIPMENT AND MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, AND APPLICABLE CODES. INSTALL ADA FIXTURES AT THE HEIGHTS PRESCRIBED BY THE CODE HAVING JURISDICTION. MAKE PROPER PIPING CONNECTIONS TO FIXTURES AND EQUIPMENT EVEN THOUGH BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN. COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHINGS-IN PLUMBING FIXTURES. PROVIDE STOPS ON ALL PLUMBING FIXTURE WATER SUPPLIES.
14. INSTALL PIPING SO ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER COMPONENTS REQUIRING ACCESS ARE ACCESSIBLE. LOCATE ALL VALVES ABOVE ACCESSIBLE CEILINGS WHERE POSSIBLE. PROVIDE ACCESS DOORS FOR ALL CONCEALED VALVES IN INACCESSIBLE LOCATIONS.
15. PIPE SUPPORTS/HANGERS SHALL BE FURNISHED AND INSTALLED BY THE PLUMBING CONTRACTOR FOR ALL PIPING ON PLUMBING PLANS.
16. REQUIRED PIPE TESTING, INCLUDING SANITARY/VENT, STORM AND PRESSURE PIPING TESTS, SHALL BE WITNESSED BY REPRESENTATIVES OF THE OWNER AND APPLICABLE JURISDICTIONAL AUTHORITIES (PROVIDE 48-HOUR ADVANCE NOTICE TO ALL PARTIES.)
- A. DIVVY PIPING SHALL BE PRESSURE TESTED. FOR PRESSURE TEST, FILL EACH OPENING WITH WATER AND TEST SYSTEM WITH MIN. 10-FT. HEAD OF WATER FOR 15 MINUTES BEFORE CHECKING FOR LEAKS. INSTALL ALL FIXTURES AND SEAL.
- B. FOR WATER SYSTEMS, BLANK-OFF ALL FIXTURES AND PLACE SYSTEMS UNDER 150 PSI PRESSURE TEST FOR TWO HOURS WITHOUT LOSS OF PRESSURE.
- C. TEST ALL VALVES, SERVICE FITTINGS, EQUIPMENT, BACKFLOW PREVENTERS, AND SAFETY EQUIPMENT TO ENSURE PROPER OPERATION PER MANUFACTURER'S REQUIREMENTS. REPORT ANY DEFECTS IMMEDIATELY TO THE A/E.
17. PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED OR SHOWN.
18. SPACE FOR ALL MECHANICAL AND ELECTRICAL SERVICES IS VERY RESTRICTED. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL WORK WITH OTHER TRADES BEFORE PROCEEDING WITH THE PLUMBING CONTRACT. SHOULD FIELD CONDITIONS DICTATE THAT CHANGES BE MADE, THE CONTRACTOR SHALL CONSULT THE GC. MAINTAIN A MINIMUM OF 8'-0" CLEARANCE TO UNDERSIDE OF PIPING THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS. FULL COORDINATION DRAWINGS SHOWING MEP SERVICES SHALL BE PREPARED.
19. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO PROVIDE COMPLETE AND OPERABLE PLUMBING SYSTEMS, INCLUDING ALL NECESSARY APPURTENANCES AND ACCESSORIES IF NOT SPECIFICALLY CALLED OUT.
20. CONTRACTOR SHALL HAVE PROPER STATE AND LOCAL CONTRACTOR AND BUSINESS LICENSES AND SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS INsofar AS THEY APPLY FOR INSTALLATION AND TESTING: NORTH CAROLINA PLUMBING CODE, NORTH CAROLINA BUILDING CODE, AND ALL LOCAL ORDINANCES AND CODES, INCLUDING LOCAL AMENDMENTS.
21. SANITARY PIPE SHALL BE LAID IN CLASS "B" BEDDING WITH CLASS I OR CLASS II MATERIALS. BEDDING MATERIALS SHALL BE GRANULAR BEDDING MATERIALS AND SHALL BE LAID TO THE BOTTOM OF THE PIPE 2" (MIN) ABOVE THE BOTTOM OF THE PIPE. 2" (MIN) ABOVE THE TRENCH. LAYING OF PIPE SHALL BE DONE PER ANSI/ASTM D-2321. TAMPING SHALL BE DONE IN 8" LAYERS WITH UP TO 95% COMPACTION PER ASTM 698. TOP 18" SHALL BE 100% COMPACTION.
22. REMOVE ROCK, ROOTS AND OTHER QUESTIONABLE MATERIALS WITHIN THE LIMITS OF WORK. ROOTS AND MATTED ROOTS SHALL BE GRUBBED OUT AT LEAST 18" BELOW EXISTING SURFACE. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF UNSUITABLE SOILS OR EXCESS EXCAVATION AND/OR BACKFILL MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL.
23. CONTRACTOR SHALL PREPARE AND MAINTAIN AT THE PROJECT SITE ACCURATE RECORD (AS BUILT) DRAWINGS DURING CONSTRUCTION PROGRESS. THESE DRAWINGS SHALL BE CONSOLIDATED INTO ONE (1) COMPLETE SET OF DRAWINGS, WHICH SHALL BE KEPT NEAT, IN ORDER AND LEGIBLE. DRAWINGS SHALL BE TURNED OVER TO THE ENGINEER AT THE PROJECT CONCLUSION, AFTER OWNER ACCEPTANCE.
24. ALL WALL HUNG FIXTURES SHALL BE SECURELY MOUNTED AND SEALED BETWEEN WALL AND FIXTURES WITH WHITE OR CLEAR SILICONE CAULKING. COUNTER MOUNTED FIXTURES SHALL BE SEALED WITH CLEAR SILICONE CAULKING.
25. ALL POTABLE WATER SYSTEMS SHALL BE DISINFECTED PRIOR TO USE IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION STANDARD, AWWA C-651. FLUSH ENTIRE SYSTEM WITH WATER UNTIL ALL ENTRAINED DIRT AND MUD HAVE BEEN REMOVED. THE ENTIRE WATER PIPING SYSTEM SHALL BE STERILIZED TO CONFORM TO THE REQUIREMENTS OF THE LOCAL AUTHORITY OR WATER PURVEYOR AND SHALL BE TESTED BY AN INDEPENDENT CERTIFIED LAB.
26. THE CONTRACTOR SHALL GUARANTEE ALL WORK PERFORMED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF SUCH WORK BY THE OWNER.
27. THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EQUIPMENT, FIXTURES AND SYSTEMS BEFORE PLACING IN OPERATION. RESTORE FINISHED SURFACES IF DAMAGED AND DELIVER THE ENTIRE INSTALLATION IN AN APPROVED CONDITION.
28. CONTRACTOR SHALL MAKE A PERSONAL INSPECTION OF THE SITE AND INCLUDE PERFORMING ALL WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS. FIELD VERIFY INFORMATION PROVIDED ON THE DRAWINGS AND EXISTING CONDITIONS, INCLUDING: LOCATIONS, ELEVATIONS, DIMENSIONS AND QUANTITIES REQUIRED FOR THE WORK. NOTIFY THE ENGINEER IN WRITING OF ANY ADDITIONAL WORK THAT MAY BE REQUIRED TO ACCOMPLISH THE SCOPE OF WORK AND/OR ACCOMMODATE FIELD INCONSISTENCIES WITH OR IN THE DRAWINGS AND/OR SPECIFICATIONS PRIOR TO COMMENCING THE SCOPE OF WORK.
29. CONTRACTOR CONSTRUCTION PLANS WILL NOT BE APPROVED WITHOUT PRIOR REVIEW AND APPROVAL OF THE PLUMBING PLANS BY DURHAM COUNTY.
30. ALL PENETRATIONS THROUGH FLOOR WATER PROOFING MEMBRANES SHALL BE COORDINATED TO LIMIT PENETRATIONS, COMBINED WITH OTHER TRADES WHEN POSSIBLE, AND SEALED WATERTIGHT PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
31. INSTALL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. AS MUCH AS PRACTICAL, CONNECT EQUIPMENT FOR EASE OF DISCONNECTING, WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. PIPING SHALL NOT INTERFERE WITH COMPONENT CLEARANCES. UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS.
32. DO NOT INSTALL EQUIPMENT OR PIPING OVER ANY ELECTRICAL EQUIPMENT, PANELS OR SERVICE SPACE.
33. ALL EQUIPMENT SHALL BE PROVIDED WITH PERMANENT METAL NAMEPLATES WITH MANUFACTURER, MODEL NO., SERIAL NO., CAPACITY, OPERATING CHARACTERISTICS, COMPLIANCE AND OTHER ESSENTIAL DATA. PIPING SHALL BE LABELED WITH SERVICE AND DIRECTION OF FLOW EVERY 20 FEET, AND IN EACH ROOM, WITH SNAP-ON SEMIRIGID, PREPRINTED PLASTIC MARKERS INCLUDING PROPER COLOR-CODING. ALL VALVES SHALL BE TAGGED WITH ALUMINUM OR TAGS STAMPED OR ENGRAVED WITH SERVICE AND SEQUENCED NUMBER, HUNG FROM VALVE. PROVIDE A FRAMED, TYPED VALVE TAG SCHEDULE IN THE BASEMENT MECHANICAL ROOM.

SERVICE	ID	COLOR	CODING
COLD WATER	GREEN		
HOT WATER	LIGHT GREEN		
DRAINS	GRAY		

2

3

4

PLUMBING FIXTURE SCHEDULE										
Symbol	Description	CW	HW	SAN	VENT	CW FU	HW FU	SAN FU	FIXTURE COUNT	Comments
P-1	WATER CLOSET	1"				13.2	0	2.4	6	
P-1a	WATER CLOSET	1"		4"	2"	2.2	0	4	1	
P-2	COUNTERTOP LAVATORY	1/2"	1/2"	2"	2"	1.4	1	2	2	
P-3	COUNTERTOP SINK	1/2"	1/2"	2"	2"	1.4	1	2	1	
P-4	EZ ADA	1/2"				0.25	0	0.5	1	
P-5	HOSE BIB	1/2"				2	0	0	2	
P-6	SHOWER	1/2"	1/2"	3"	2"	1.4	1	2	1	
P-6a	SHOWER - ADA	1/2"	1/2"	3"	2"	1.4	1	2	1	
Grand total						23.25	4	36.5		

SYMBOL	DESCRIPTION	TYPE	COMPONENT	DESCRIPTION	COMMENTS
P-1	WATER CLOSET	FLOOR MOUNTED	CLOSET	AMERICAN STANDARD MODEL 215CA 104, 1.28 GPF, ELONGATED, "WHITE", FLOOR MOUNTED TANK, VITREOUS CHINA WATER CLOSET, SIPHON JET FLUSHING ACTION, 2-1/8" DIAMETER, FULLY GLAZED TRAPWAY, ASME 112.19.2/CSA B45.1.	SUPPORT SUPPLY PIPE THRU WALL WITH CHLORITE #107-26 COPPER BONDED STEEL BRACKET PIPE SUPPORT.
			SEAT	BEMIS "COMMERCIAL" MODEL 3155SSCT ELONGATED WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING S.S. CHECK HINGE	
			CLOSET	AMERICAN STANDARD MODEL 215AA 104, 1.28 GPF, ELONGATED, "WHITE", FLOOR MOUNTED TANK, VITREOUS CHINA WATER CLOSET, SIPHON JET FLUSHING ACTION, 2-1/8" DIAMETER, FULLY GLAZED TRAPWAY, ASME 112.19.2/CSA B45.1.	
P-1a	WATER CLOSET	FLOOR MOUNTED	SEAT	BEMIS "COMMERCIAL" MODEL 3155SSCT ELONGATED WHITE OPEN FRONT SEAT LESS COVER WITH SELF SUSTAINING S.S. CHECK HINGE	
P-2	LAVATORY	COUNTERTOP	LAVATORY	AMERICAN STANDARD MODEL 0496 300 (19.25"x16.25"), UNDER MOUNTED, WHITE VITREOUS CHINA LAVATORY WITH FRONT OVERFLOW, ADA COMPLIANT	
			FAUCET	T&S BRASS MODEL B-2711-VF05, 4" FIXED CENTERS, INTEGRAL CAST BRASS SPOUT, 0.5 GPM, VANDAL PROOF PRESSURE COMPENSATING NON-AERATING SPRAY, CERAMIC CARTRIDGE WITH ADJUSTABLE TEMPERATURE LIMIT STOP, SINGLE LEVEL HANDLE, 1/2" NPSM MALE INLETS WITH COUPLING NUTS	
			SUPPLY	MCGUIRE MLF175LK (1/2" x 3/8") SWEAT LAVATORY SUPPLY KIT WITH LOOSE KEY STOP, CHROME PLATED RISERS, BRASS FLANGE WITH SET SCREW.	
P-3	SINGLE BOWL SINK	COUNTERTOP	DRAIN	MCGUIRE GRID DRAIN MODEL 155AECO 1-1/4" TAILPIECE - OPEN GRID P.O. PLUG & MCGUIRE M8872CBECO (1-1/4") - CHROME PLATED P-TRAP SHALL BE CAST BRASS BODY WITH CLEANOUT WITH 17 GAUGE SEAMLESS TUBULAR WALL BEND AND FLANGE.	PROVIDE PRECISION PLUMBING PRODUCTS BAC-2-BAC MANIFOLD WHERE APPLICABLE.
			INSULATION	PLUMBEREX TRAP-GEAR MODEL 396 WHITE, ASTM-E 84-07 CLASS A INSULATION MATERIAL.	
			SINK	ELKAY MFG. ELUHAD191655PD, ADA COMPLAINT SINGLE BOWL, UNDERMOUNT SINK, TYPE 304 18-8 STAINLESS STEEL SINK 21.5 x 18.5" x 5-3/8" DEEP, DRAIN: CENTER-REAR, LKPD1 CUP STRAINER AND 1-1/2" TAILPIECE	
P-4	ELECTRIC WATER COOLER	WALL MOUNTED	FAUCET	ELKAY MODEL LK1001 WITH DEDICATED SPRAY NOZZLE, 1.5 GPM, SINGLE HANDLE, REMOVABLE CERAMIC DISC CARTRIDGE, 1/2" IPS SUPPLY INLETS, QUICK CONNECT SIDE SPRAY FITTING, CHROME PLATE FINISH	
			SUPPLY	MCGUIRE MLF175LK (1/2" x 3/8") SWEAT LAVATORY SUPPLY KIT WITH LOOSE KEY STOP, CHROME PLATED RISERS, BRASS FLANGE WITH SET SCREW.	
			DRAIN	MCGUIRE GRID DRAIN MODEL 151AECO 1-1/4" TAILPIECE - STAINLESS STEEL BASKET P.O. PLUG & MCGUIRE M8912CBECO (1-1/4") - CHROME PLATED P-TRAP SHALL BE CAST BRASS BODY WITH CLEANOUT WITH 17 GAUGE SEAMLESS TUBULAR WALL BEND AND FLANGE.	
P-5	HOSE BIB			PLUMBEREX TRAP-GEAR MODEL 396 WHITE, ASTM-E 84-07 CLASS A INSULATION MATERIAL.	
P-6	SHOWER			ELKAY MODEL EZS8WSVRLK "NO-LEAD" SINGLE LEVEL "EZ2HO", BARRIER-FREE, NON-FILTERED, REFRIGERATED DRINKING FOUNTAIN WITH ELECTRONIC SENSOR BOTTLE FILLING STATION, WALL MOUNTED, STAINLESS STEEL CONSTRUCTION WITH ABS ALCOVE, CERTIFIED TO NSF/ANSI 42 AND 53, FLEXIBLE BUBBLER GUARD. LEAD-FREE IN MATERIALS AND CONSTRUCTION, SHALL COMPLY WITH ANSI 117.1 AND ADA. SHALL COMPLY WITH NSF/ANSI 61 & 372, SHALL COMPLY WITH 100 MICRON STRAINER	
				115 VOLT, 6 AMP, 370 WATTS	
				WOODFORD 24 INTERIOR HOSE BIBB W/ VACUUM BREAKER AND LOOSE TEE HANDLE, CHROME PLATED, MOUNT 12" A.F.F.	
P-6a	SHOWER	ADA COMPLIANT		THE SHOWER IS SPECIFIED ON THE ARCHITECTURAL DRAWINGS AND IS FURNISHED COMPLETE WITH ALL SHOWER SUPPLY HARDWARE AND DRAIN.	
				THE SHOWER SUPPLY ROUGH-IN AND FINAL UTILITY INSTALLATION IS BY THE PLUMBING CONTRACTOR.	

PIPING SERVICE	SYMBOL	APPLICATION		TEST		INSUL.	PIPE			FITTINGS			VALVES AND ACCESSORIES				NOTES
		MAX. PRESS. PSIG	MAX. TEMP °F	TEST PRESS. PSIG	TYPE		DIA.	SCH.	DESCRIPTION	DIA.	RATING OR SCH.	DESCRIPTION	EQUIP.	DIA.	PRESS. RATING CLASS	DESCRIPTION	
HOT WATER	HW	75	140	100	H	SEE SPEC.	ALL SIZES	NA	COPPER TYPE L HARD, COLD DRAWN (SJ) ASTM B-88	125#	WROUGHT COPPER, SJ 95-5 SOLDER NON-LEAD FLUX ANSI B16.22	BALL	ALL SIZES	125	TE BRONZE BODY, FULL PORT, QUARTER-TURN, DOUBLE SEAL	BARE COPPER PIPES MAY NOT BE PLACED ON BARE STEEL SUPPORTS. USE COPPER HANGERS.	
COLD WATER	CW	75	80	100	H												ALL SIZES
SANITARY VENT	SAN V	10 FT	100	10 FT	HP	NONE	2" & LGR.	NA	CAST IRON	2" & LGR.	NA	HUB & SPIGOT BELOW SLAB NO HUB ABOVE SLAB	N/A			HUB & SPIGOT CONNECTIONS: SHALL BE RUBBER GASKETS NO HUB COUPLINGS: SHALL BE "MG" OR "CLAMP-ALL"	

PLUMBING GENERAL NOTES

NO.	DESCRIPTION
1	ALL OPENINGS FOR PIPING PENETRATIONS ARE GENERALLY PROVIDED BY THE PLUMBING CONTRACTOR. EXCEPTIONS ARE COVERED BY NOTES AND DETAILS. THE LOCATION AND SIZE OF EACH OPENING SHALL BE FURNISHED TO THE GENERAL CONTRACTOR BY THE PLUMBING CONTRACTOR. COORDINATE ALL SLAB PENETRATIONS FOR NEW WORK WITH STRUCTURAL DRAWINGS TO CONFIRM LOCATION IS ACCEPTABLE AND IF SLAB REINFORCEMENT IS REQUIRED.
2	PIPE HANGERS AND CONCRETE INSERTS UTILIZED FOR THIS PROJECT SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR. THIS INCLUDES ALL SUPPLEMENTAL STEEL, ETC
3	ALL LINTELS REQUIRED IN MASONRY AND STUD WALLS FOR PIPING PENETRATIONS SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
4	COORDINATE VERTICAL PIPING WITH ARCHITECTURAL PLANS FOR EXACT LOCATION OF RISER.
5	CUTTING OF OPENINGS ASSOCIATED WITH THE PIPING SYSTEMS NOT SPECIFICALLY INDICATED ON ARCHITECTURAL SHEETS TO BE PROVIDED BY THE GENERAL CONTRACTOR, SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR.
6	UNLESS APPROVED BY THE ENGINEER, NO HORIZONTAL PIPING IN THE MECHANICAL ROOM SHALL BE INSTALLED WITH A BOTTOM OF PIPE ELEVATION BELOW 8'-0" AFF.
7	INSTALL ALL HANDICAP TOILET FLUSH HANDLES ON THE WIDE SIDE OF THE TOILET.
8	ALL MATERIALS INSTALLED WITHIN THE AIR PLENUM SHALL MEET THE NORTH CAROLINA MECHANICAL CODE SECTION 602.
9	ALL INDIRECT WASTE MUST DISCHARGE THROUGH AN AIR GAP WHICH IS AT LEAST TWICE THE DIAMETER OF THE INDIRECT WASTE PIPE PER THE NORTH CAROLINA PLUMBING CODE.
10	VENTS SHALL RISE VERTICALLY 6" ABOVE THE FLOOD RIM BEFORE TURNING HORIZONTALLY AND PROVIDED WITH A CLEANOUT ON THE VERTICAL.
11	PROVIDE A WALL CLEANOUT OR FLOOR CLEANOUT AT THE BASE OF ALL SANITARY AND STORM DRAINAGE VERTICAL RISERS. SANITARY WALL CLEANOUTS SHALL BE INSTALLED AT A LEVEL 18" ABOVE THE FINISHED FLOOR.
12	THE PLUMBING SUB-CONTRACTOR SHALL COORDINATE THE LOCATION OF THE MECHANICAL EQUIPMENT FLOOR DRAINS WITH THE MECHANICAL SUB-CONTRACTOR AND THE PROPOSED MECHANICAL EQUIPMENT.
13	THE ISOMETRIC AND PIPING SECTIONS ARE SCHEMATIC IN NATURE AND PROVIDED FOR GENERAL ROUTING CLARIFICATION OF PIPE SIZES. THE ISOMETRIC AND PIPING SECTIONS SHALL NOT BE USED FOR A SPECIFIC ESTIMATE TAKE-OFF OF VALVES, PIPE LENGTHS AND FITTINGS.
14	COORDINATE THE INVERT ELEVATIONS WITH THE SITE UTILITY DRAWINGS. THE INVERT INDICATED ON THE PLUMBING DRAWINGS IS THE MINIMUM INVERT TO EXIT THE BUILDING. THE PLUMBING CONTRACTOR SHALL COORDINATE, VERIFY AND PROVIDE THE INVERT ELEVATIONS ON THE COORDINATION DRAWINGS.
15	THE PLUMBING CONTRACTORS' WORK SHALL BE COORDINATED IN SUCH A MANNER AS TO NEVER BLOCK SERVICE PATHWAYS TO AND FROM THIS BUILDING.
16	THE PLUMBING CONTRACTOR IS REQUIRED TO ROD-OUT, CLEAN AND CAMERA ALL OF THE UNDERGROUND SANITARY AND STORM PIPING AFFECTED BY THE NEW SCOPE OF WORK TO THE FIRST MANHOLE. ANY PIPE CRACKS, OR OBSTRUCTIONS UNABLE TO BE REMOVED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND OWNER.
17	THE SCHEDULED PLUMBING FIXTURE COUNTS SHALL NOT BE USED FOR ESTIMATE TAKE-OFFS.
18	ALL CLEANOUT ACCESS LOCATIONS SHALL BE COORDINATED WITH CASEWORK, WALLS AND EQUIPMENT. ALL FLOOR DRAINS AND CLEANOUTS NEED TO BE ACCESSIBLE. NO FLOOR DRAINS OR CLEANOUTS SHALL BE INSTALLED UNDER EQUIPMENT.

PLUMBING ABBREVIATIONS

SYMBOL	DESCRIPTION
AD	AREA DRAIN
FS	FLOOR SINK
FD	FLOOR DRAIN
FCO	FLOOR CLEANOUT
WC	WATER CLOSET
LAV	LAVATORY

PLUMBING LEGEND

SYMBOL	DESCRIPTION
==SAN==	SANITARY SEWER
==V==	SANITARY VENT
==CW==	COLD WATER
==HW==	HOT WATER
==HWR==	HOT WATER RETURN
==D==	DRAIN PIPING
==>==	FLOW ARROW
==>==>==	NEW PIPING
==>==>==>==	EXISTING PIPING TO REMAIN
~~~~~	DEMOLITION - PIPING TO BE REMOVED
	VALVE IN RISER
	BALL VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER
	SHOCK ABSORBER
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
C.O.T.G.	CLEANOUT TO GRADE
VTR	VENT THROUGH THE ROOF
	NEW PIPING TO EXISTING CONNECTION POINT
	EXISTING PIPING DEMOLITION POINT
	INVERT ELEVATION
	PIPE SIZE PIPE SYSTEM ABBREVIATION UTILITY RISER IDENTIFICATION

CARTERET COMMUNITY COLLEGE

BASIC LAW ENFORCEMENT TRAINING

3705 ARENDELL STREET  
MOREHEAD CITY, NC 28557

DESIGNER

CLARK NEXSEN

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CLARK NEXSEN LICENSE NUMBER: C-1028  
PROFESSIONAL SEAL

SUBMITTAL

03/09/2022

PERMIT DRAWINGS

REVISIONS

SHEET

PLUMBING LEGEND, SCHEDULES AND DETAILS

PE000

DESIGN: AWB  
DRAWN: AWB  
REVIEW: CN

CN 9568



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PLUMBING KEYED NOTES

NO.	DESCRIPTION
01	PIPING ROUTED BELOW THE FINISHED FLOOR SLAB OR THE FINISHED GRADE.
02	PIPING ROUTED EXPOSED AT THE STRUCTURE ABOVE OR CONCEALED ABOVE THE CEILING WITHIN THE FINISHED CEILING CAVITY.

BASEMENT AND FIRST FLOOR DEMOLITION NOTES:

- HORIZONTAL SANITARY AND VENT PIPE MAINS:
- EXISTING PIPING LOCATED WITHIN THE FIRST FLOOR ENVELOPE
  - REMOVE THE FIRST FLOOR PIPING LOCATED BELOW THE SLAB
  - VENT PIPING ROUTING IS BASED ON AIR ADMITTANCE VALVES
  - LEAVE THE MINIMUM PIPING TO MAKE A NEW CONNECTION

- HORIZONTAL WATER PIPE MAINS:
- EXISTING PIPING LOCATED WITHIN THE FIRST FLOOR ENVELOPE
  - REMOVE THE BRANCH PIPING BACK TO THE WATER MAINS
  - LEAVE THE MINIMUM PIPING TO MAKE A NEW CONNECTION

- PLUMBING FIXTURES:
- EXISTING PLUMBING FIXTURES LOCATED WITHIN THE FIRST FLOOR ENVELOPE
  - REMOVE ALL ASSOCIATED SANITARY, VENT AND WATER PIPING

- SPECIFIC DEMOLITION POINTS:
- REFER TO THE DRAWINGS AND DETAILS FOR SPECIFIC DEMOLITION POINTS

- UNKNOWN PIPING:
- THE AS-BUILT DRAWINGS WERE NOT AVAILABLE.
  - EXISTING PIPING WAS BASED ON SITE OBSERVATION.
  - THE EXISTING PIPING COULD NOT BE COMPLETELY FIELD VERIFIED DUE TO LIMITED ACCESS TO WALL AND CEILING CAVITIES

- MISC:
- REMOVE EXISTING PIPING DEMOLISHED FROM THE PROJECT SITE
  - CAP THE OPEN ENDS OF REMOVED PIPING THAT IS SCHEDULED TO REMAIN

CARTERET COMMUNITY COLLEGE

BASIC LAW  
ENFORCEMENT  
TRAINING

3705 ARENDELL STREET  
MOREHEAD CITY, NC 28557

DESIGNER

CLARK NEXSEN

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919-828-1876

CLARK NEXSEN LICENSE NUMBER: C-1028  
PROFESSIONAL SEAL

SUBMITTAL

03/09/2022

PERMIT DRAWINGS

REVISIONS

KEY PLAN

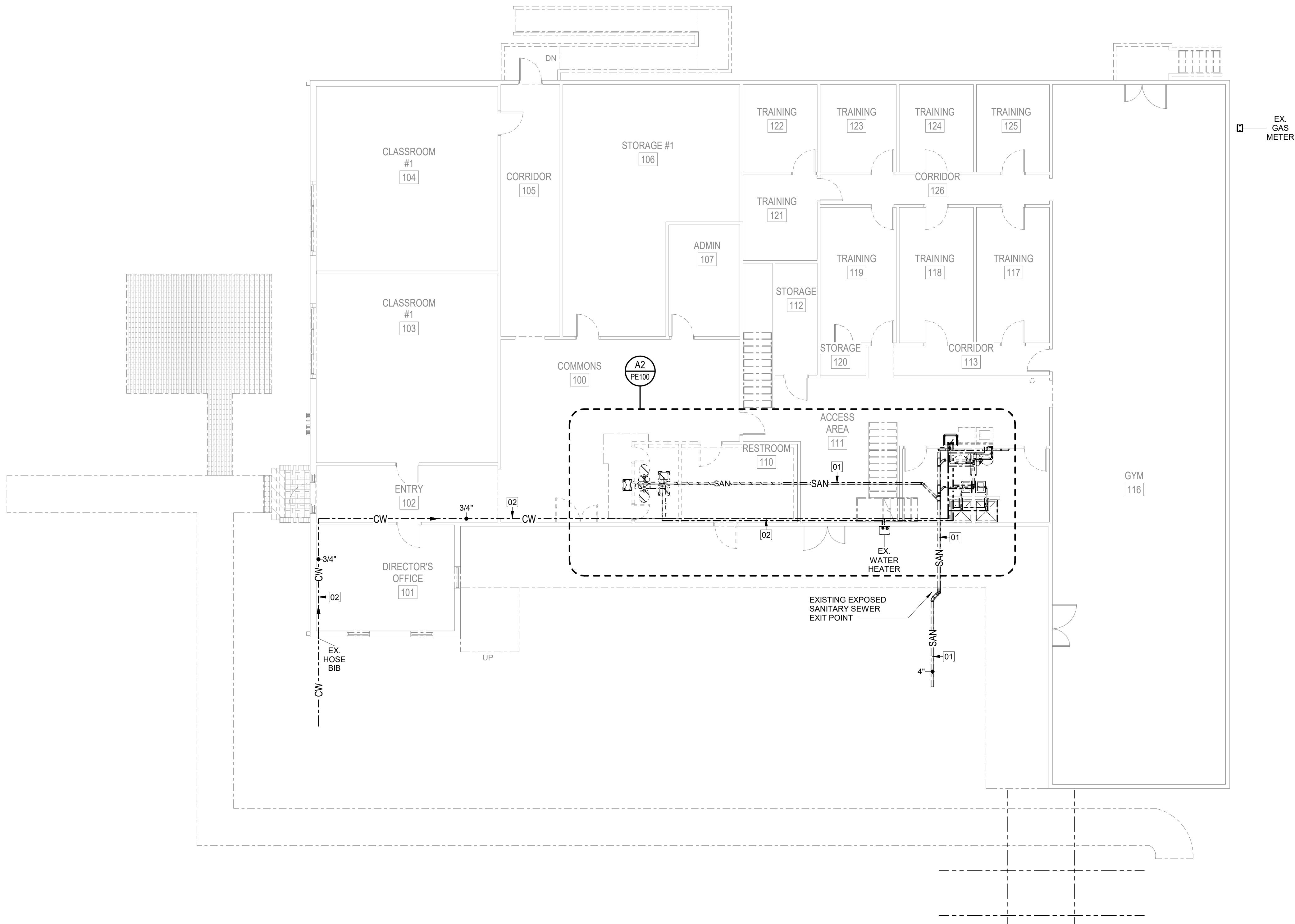
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PLUMBING FLOOR - DEMO

PE100

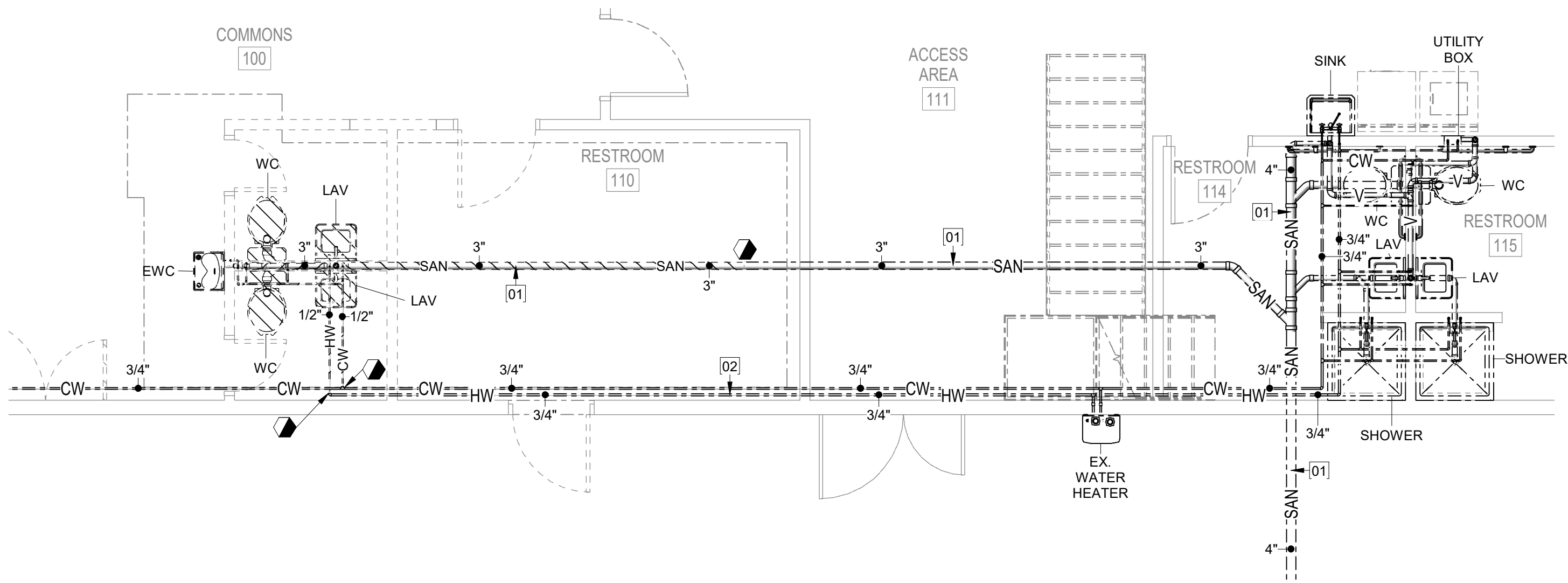
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DRAWN: Author  
REVIEW: Checker

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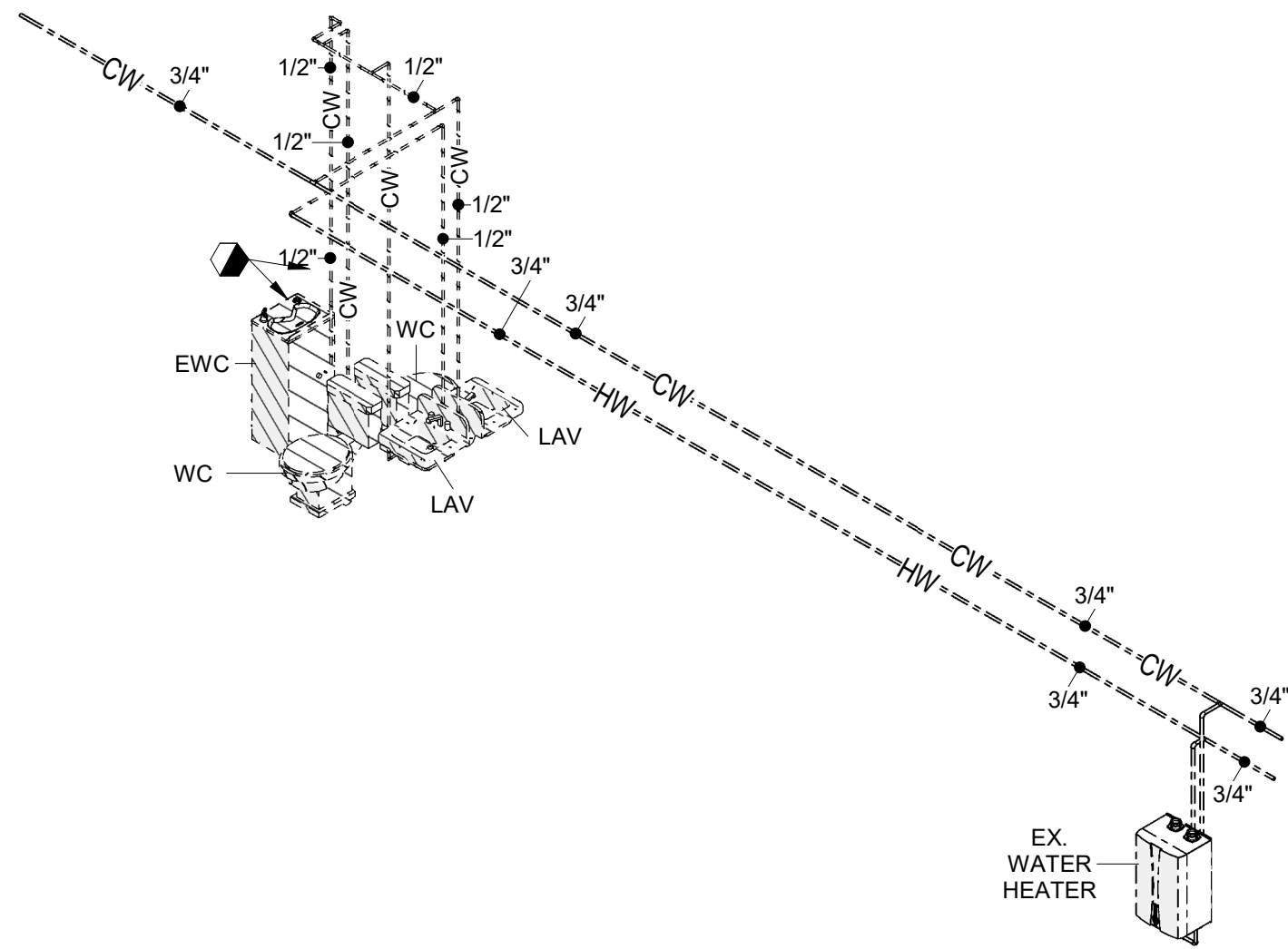


C2 PLUMBING FLOOR PLAN - DEMO  
SCALE: 1/8" = 1'-0"

C6 SAN/VENT PIPING ISOMETRIC - DEMO  
NO SCALE

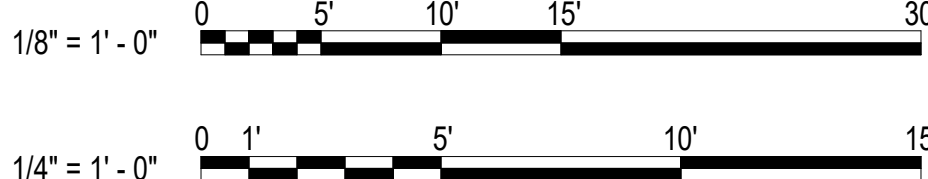


A2 PLUMBING FLOOR PLAN - ENLARGED - DEMO  
SCALE: 1/4" = 1'-0"



A6 CW/HW PIPING ISOMETRIC - DEMO  
NO SCALE

GRAPHIC SCALE(S)





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## PLUMBING KEYED NOTES

NO.	DESCRIPTION
01	PIPING ROUTED BELOW THE FINISHED FLOOR SLAB OR THE FINISHED GRADE.
02	PIPING ROUTED EXPOSED AT THE STRUCTURE ABOVE OR CONCEALED ABOVE THE CEILING WITHIN THE FINISHED CEILING CAVITY.
03	AIR ADMITTANCE VALVE: 2" OATEY SURE VENT OR EQUIVALENT. PROVIDE THE AIR ADMITTANCE VALVE WITH A LOUVERED ACCESS PANEL.

### NEW WORK NOTES:

#### HORIZONTAL SANITARY AND VENT PIPE MAINS:

1. NEW PIPING LOCATED WITHIN THE FIRST FLOOR ENVELOPE
2. CONNECT TO THE EXISTING SANITARY CONNECTION REMAINING AFTER DEMOLITION

#### HORIZONTAL WATER PIPE MAINS:

1. NEW PIPING LOCATED WITHIN THE FIRST FLOOR ENVELOPE
2. CONNECT TO THE EXISTING BRANCH CONNECTIONS REMAINING AFTER DEMOLITION

#### PLUMBING FIXTURES:

1. NEW PLUMBING FIXTURES LOCATED WITHIN THE FIRST FLOOR ENVELOPE
2. PROVIDE ALL NEW ASSOCIATED SANITARY, VENT AND WATER PIPING

#### SPECIFIC NEW WORK POINTS:

1. REFER TO THE DRAWINGS AND DETAILS FOR SPECIFIC NEW WORK CONNECTION POINTS

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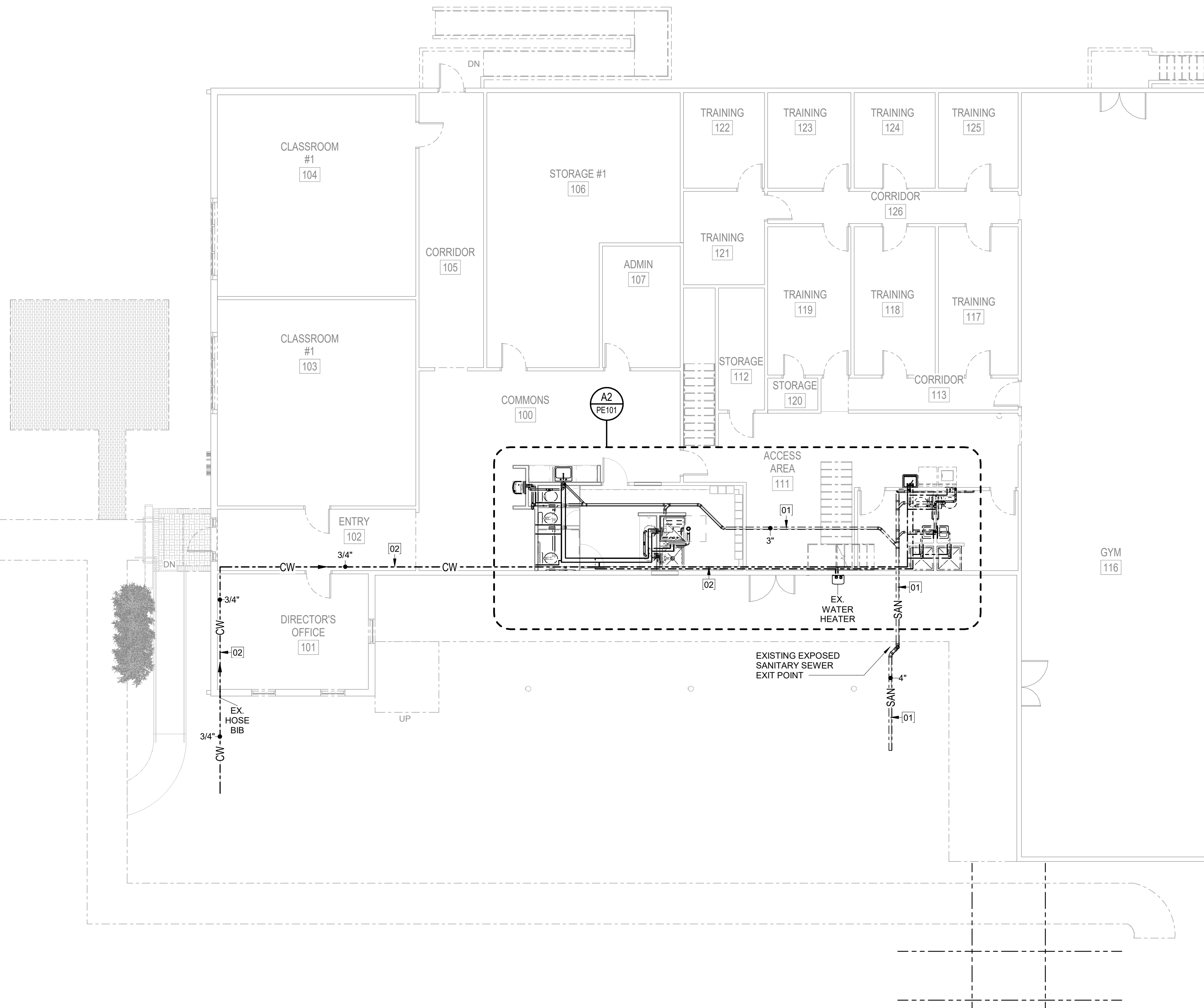
KEY PLAN

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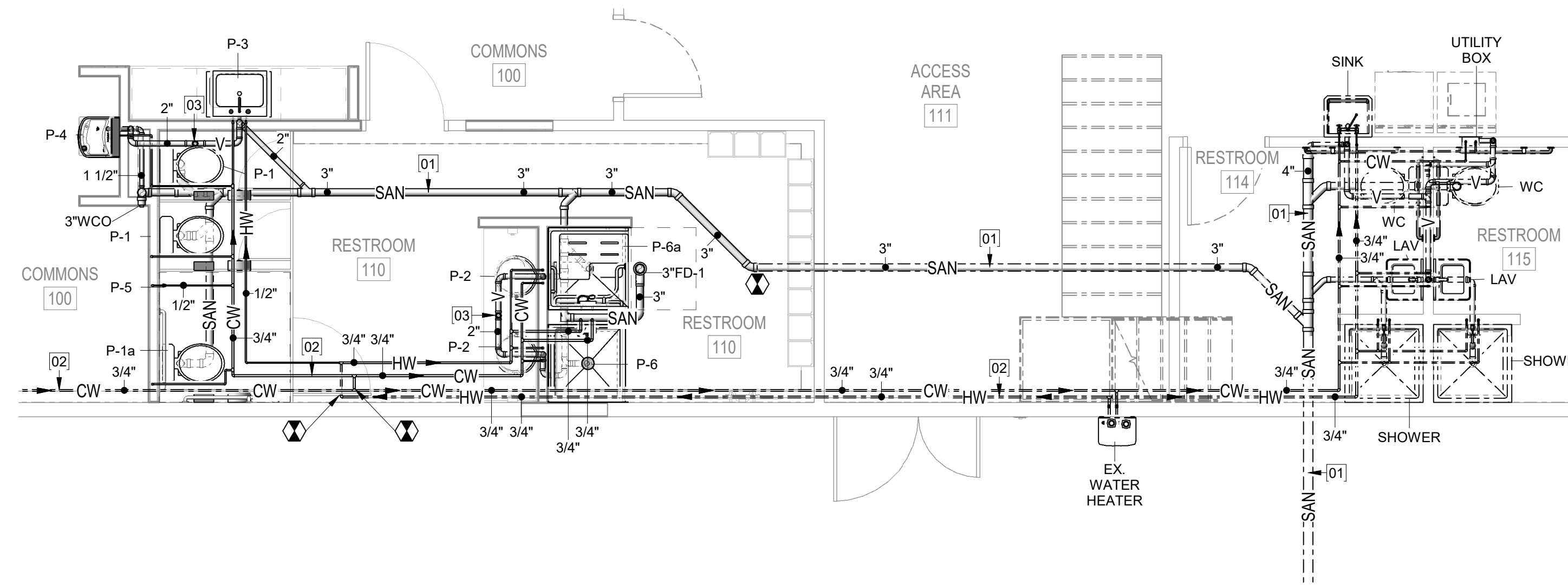
PLUMBING FLOOR PLAN - NEW  
WORK

DESIGN: Designer  
DRAWN: Author  
REVIEW: Checker

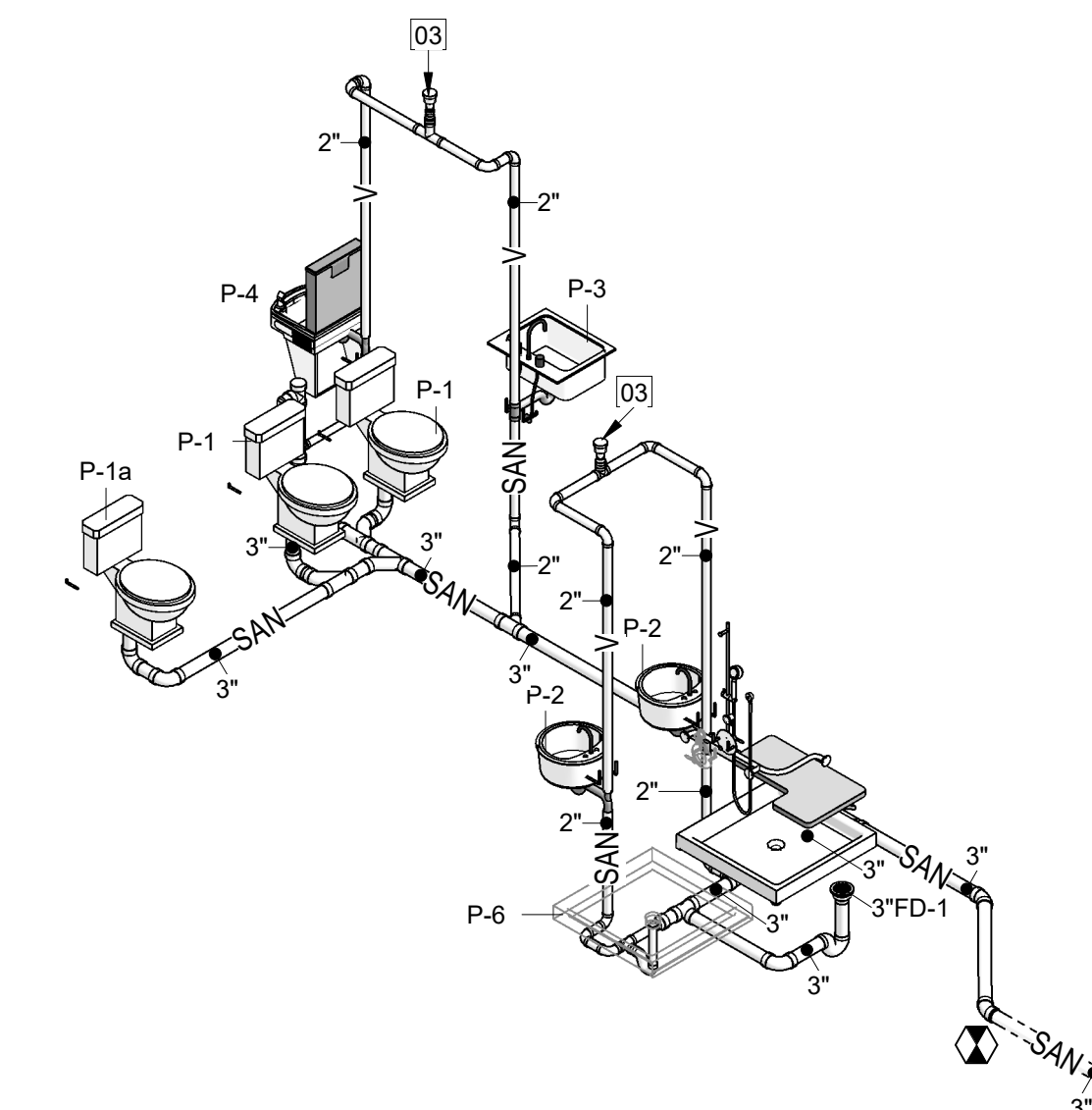
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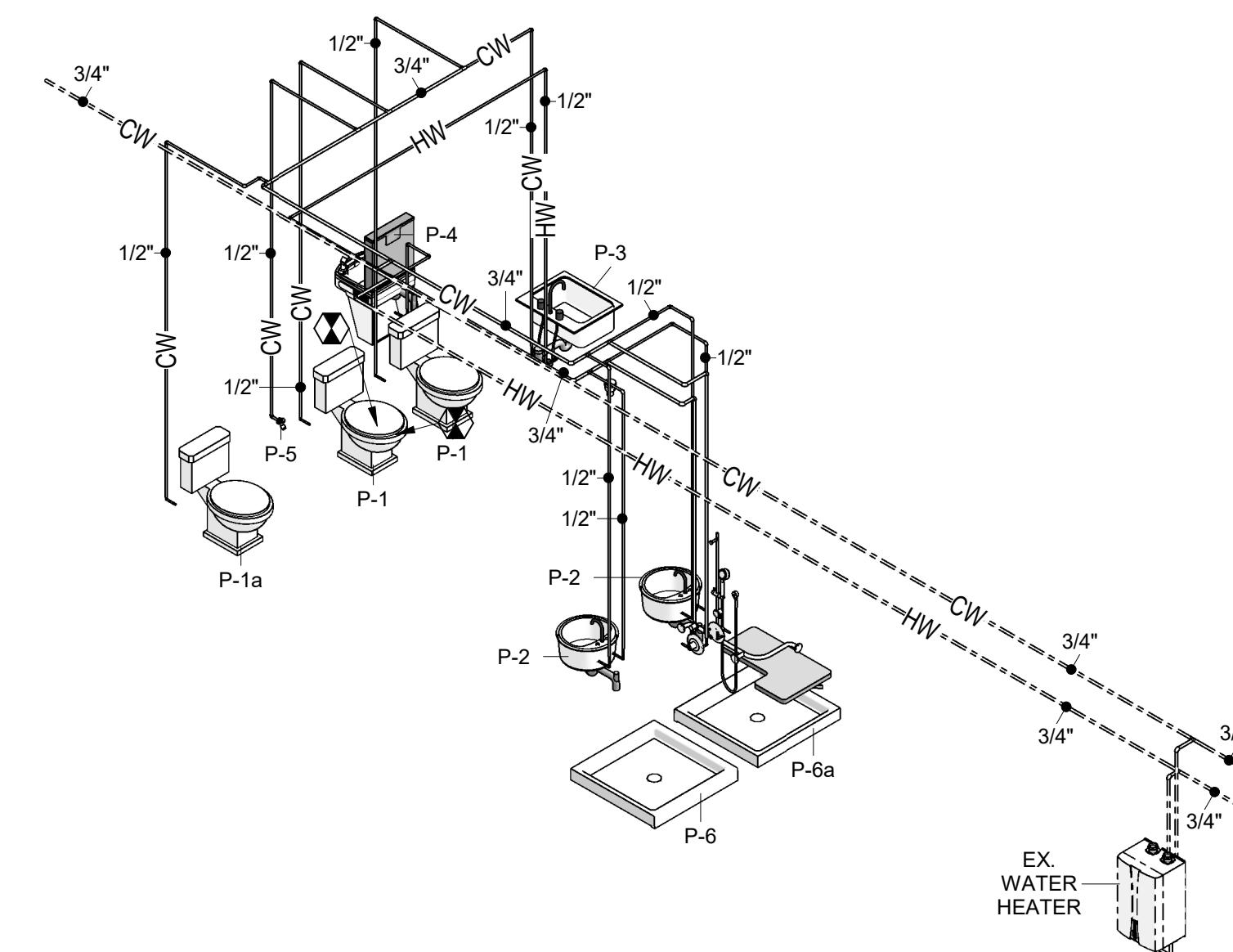
**C2** PLUMBING FLOOR PLAN - NEW WORK  
SCALE: 1/8" = 1'-0"



**A2** PLUMBING FLOOR PLAN - ENLARGED - NEW WORK  
SCALE: 1/4" = 1'-0"



**C6** SAN/VENT PIPING ISOMETRIC - NEW WORK  
NO SCALE



**A6** CW/HW PIPING ISOMETRIC - NEW WORK  
NO SCALE

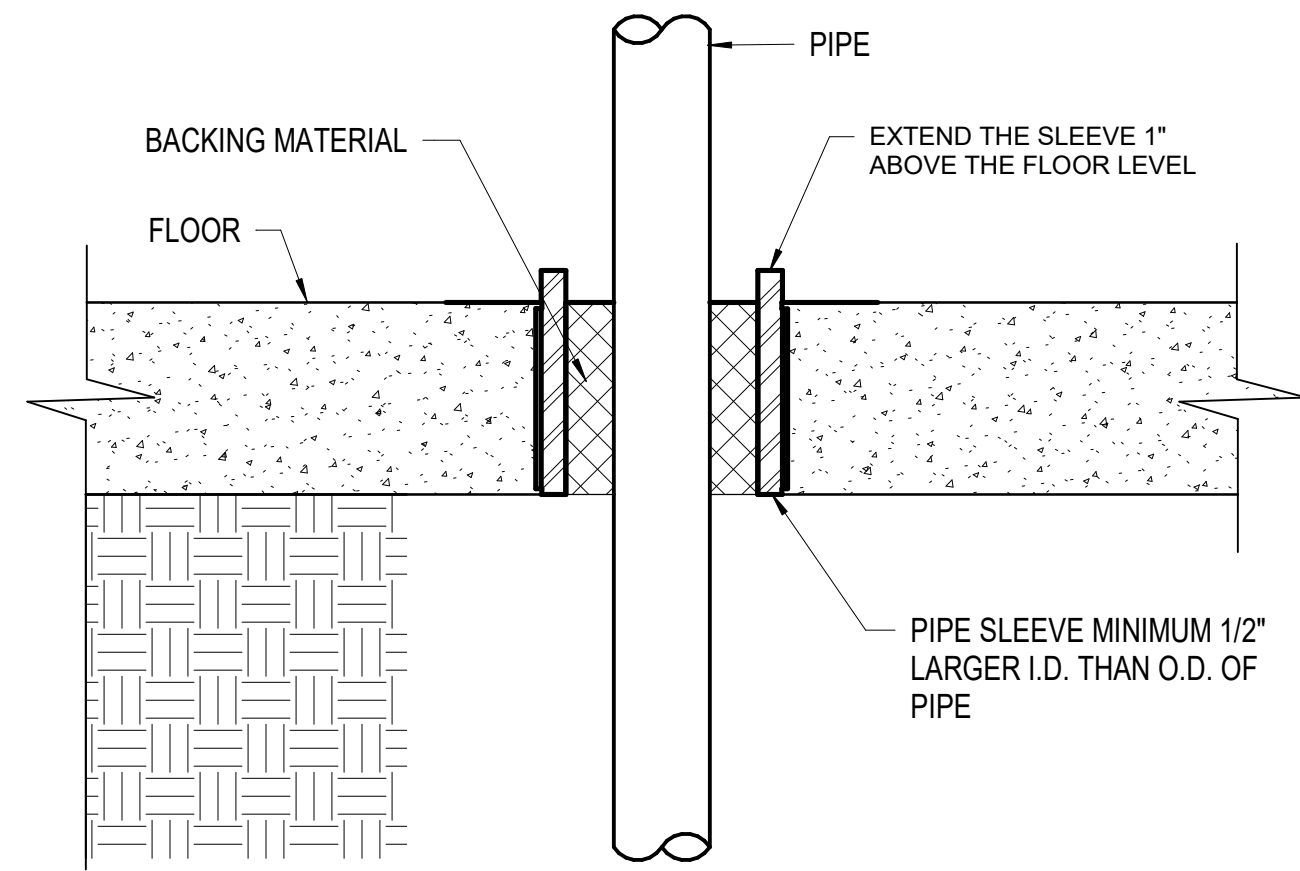
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1/8" = 1' - 0" 0 5' 10' 15' 30'

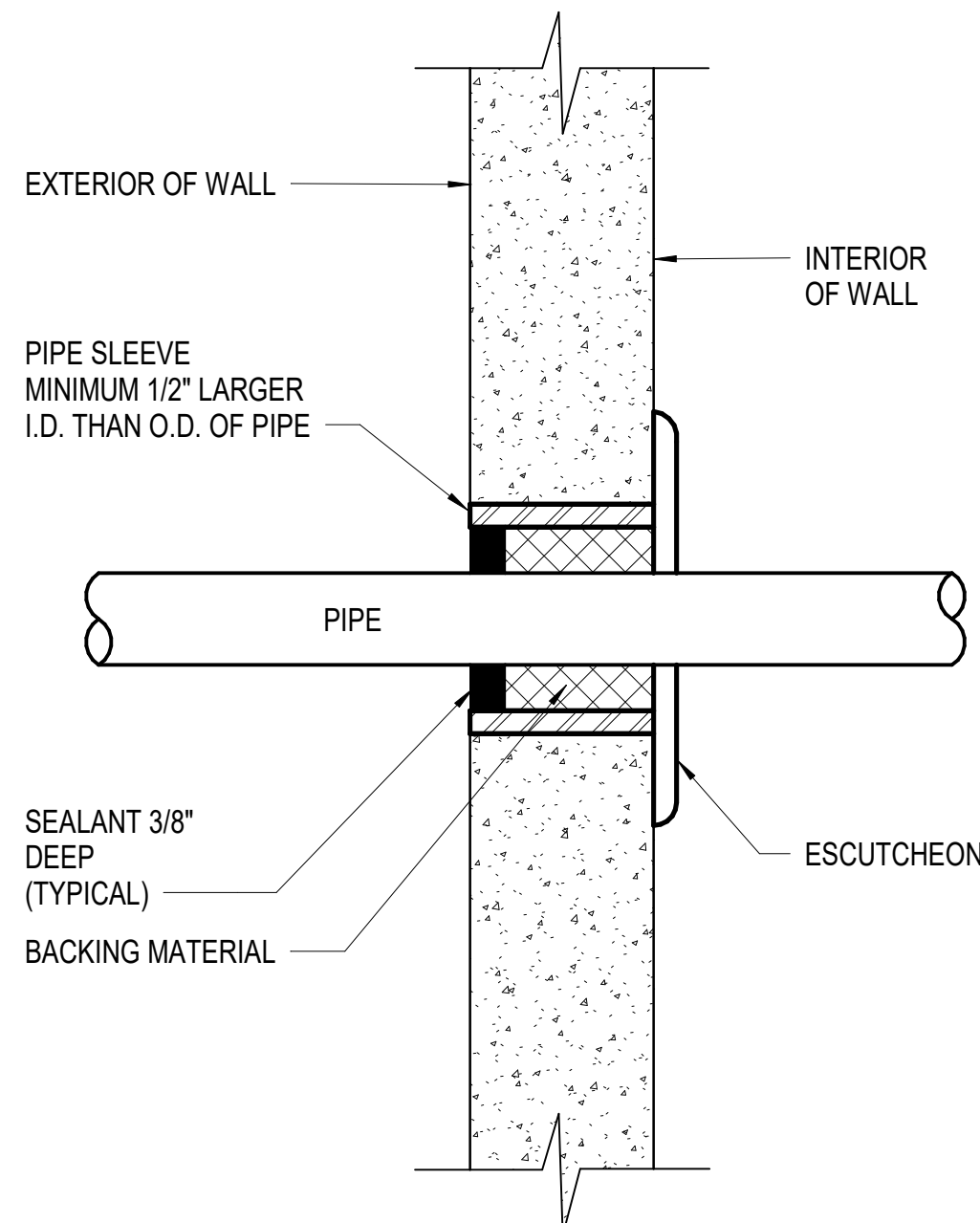
1/4" = 1' - 0" 0 1' 5' 10' 15'



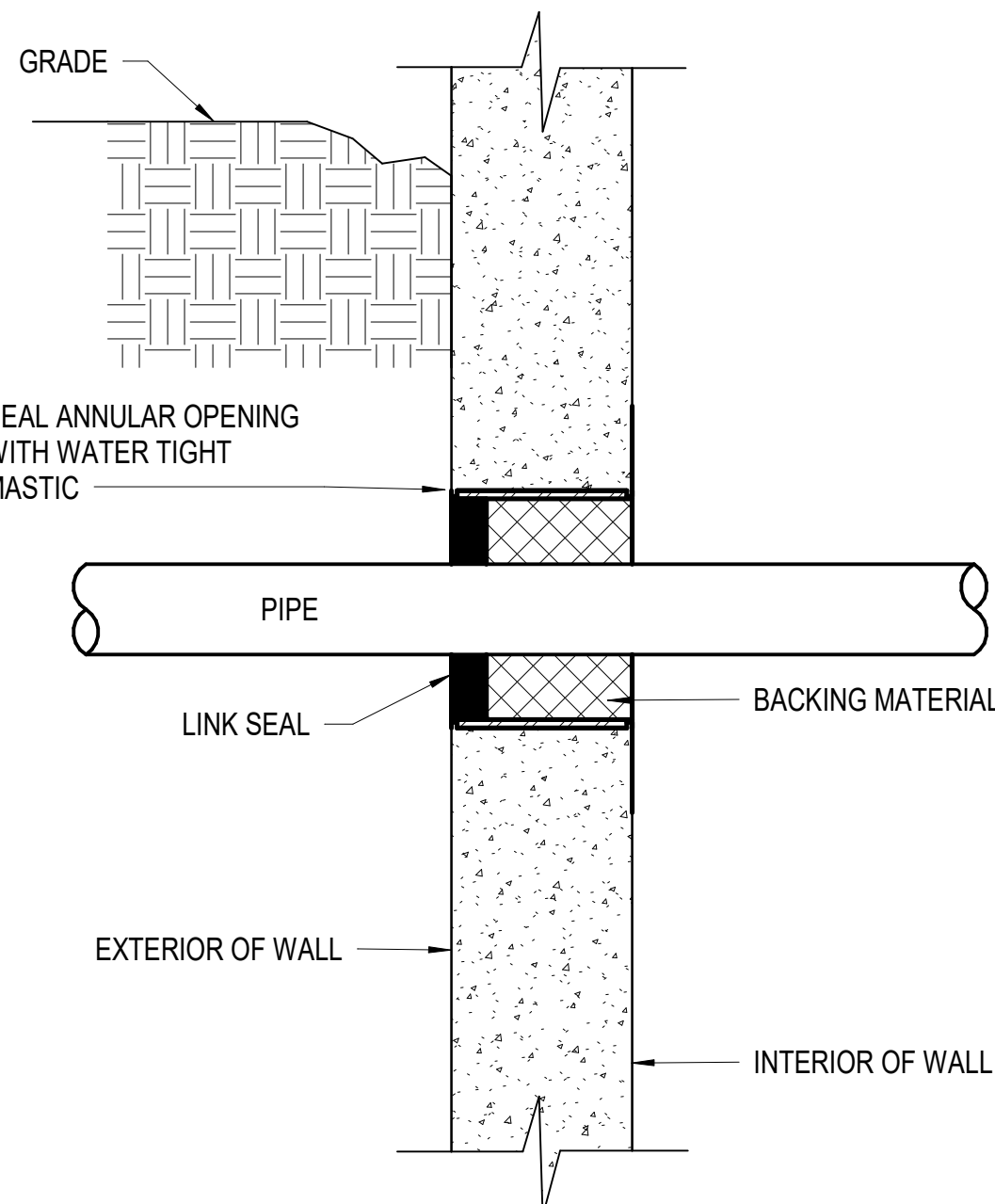
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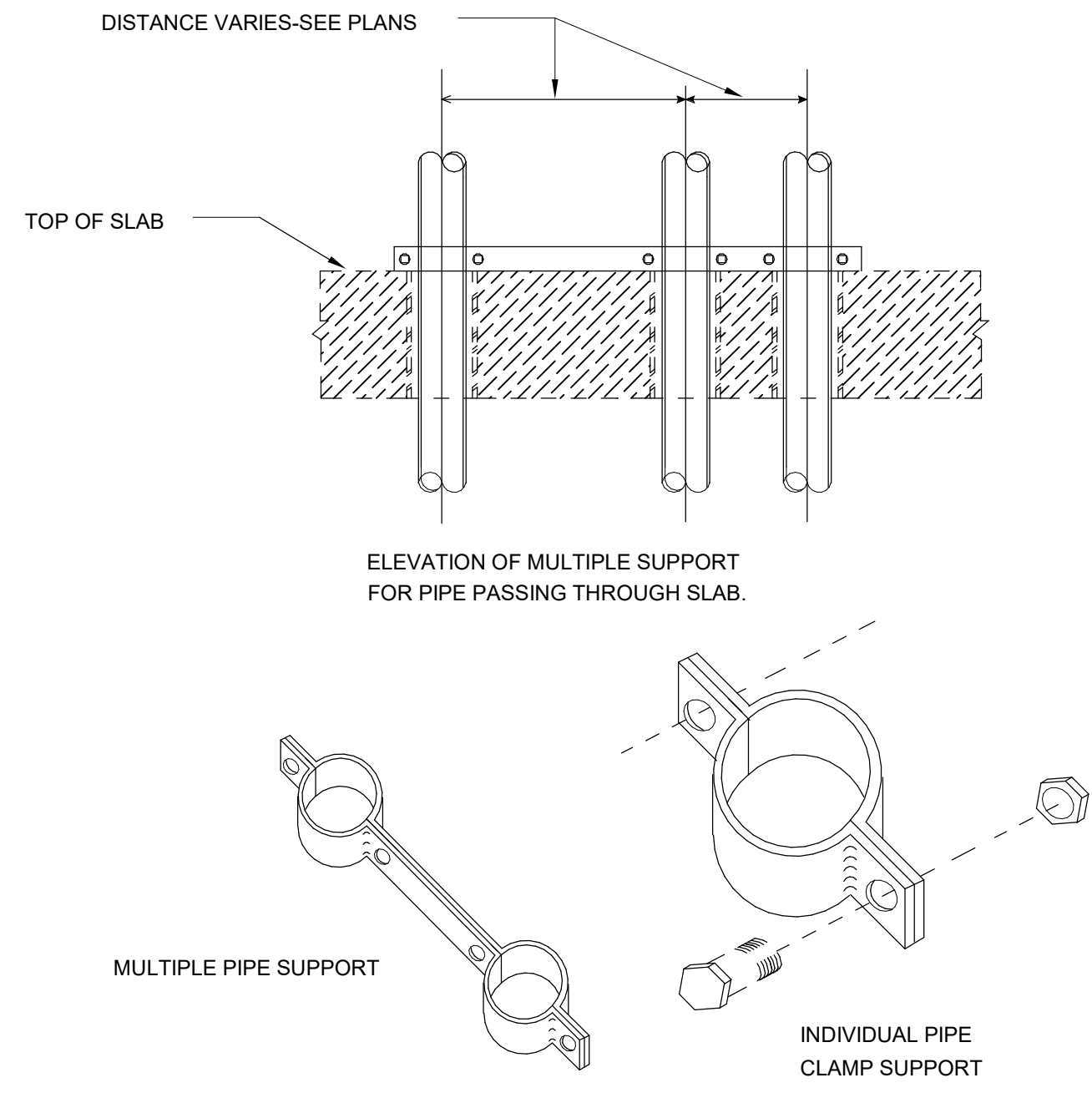
**D2 FLOOR PIPE PENETRATION**  
NO SCALE



**D4 ABOVE GRADE PIPE PENETRATION**  
NO SCALE



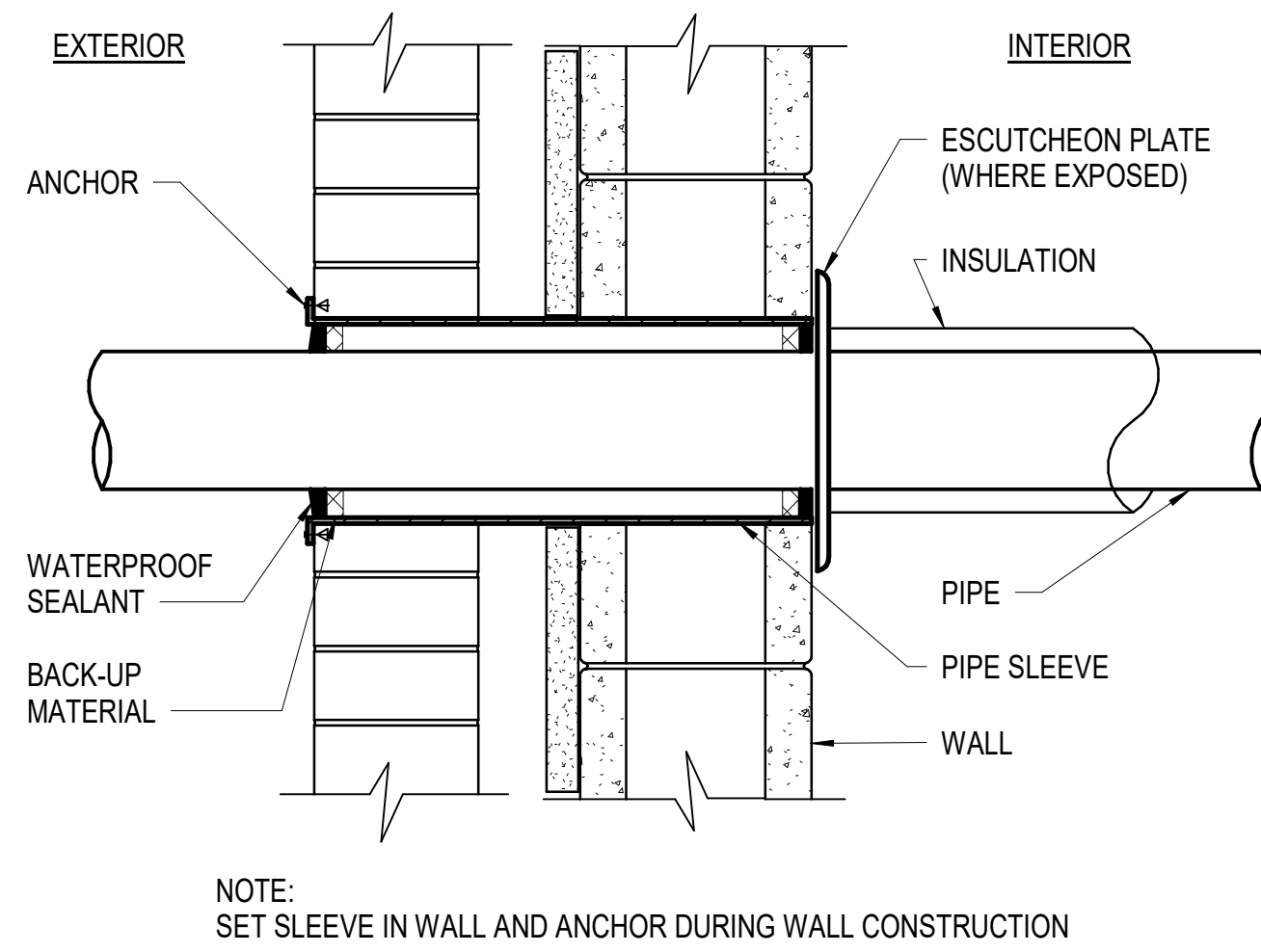
**D5 BELOW GRADE PIPE PENETRATION**  
NO SCALE



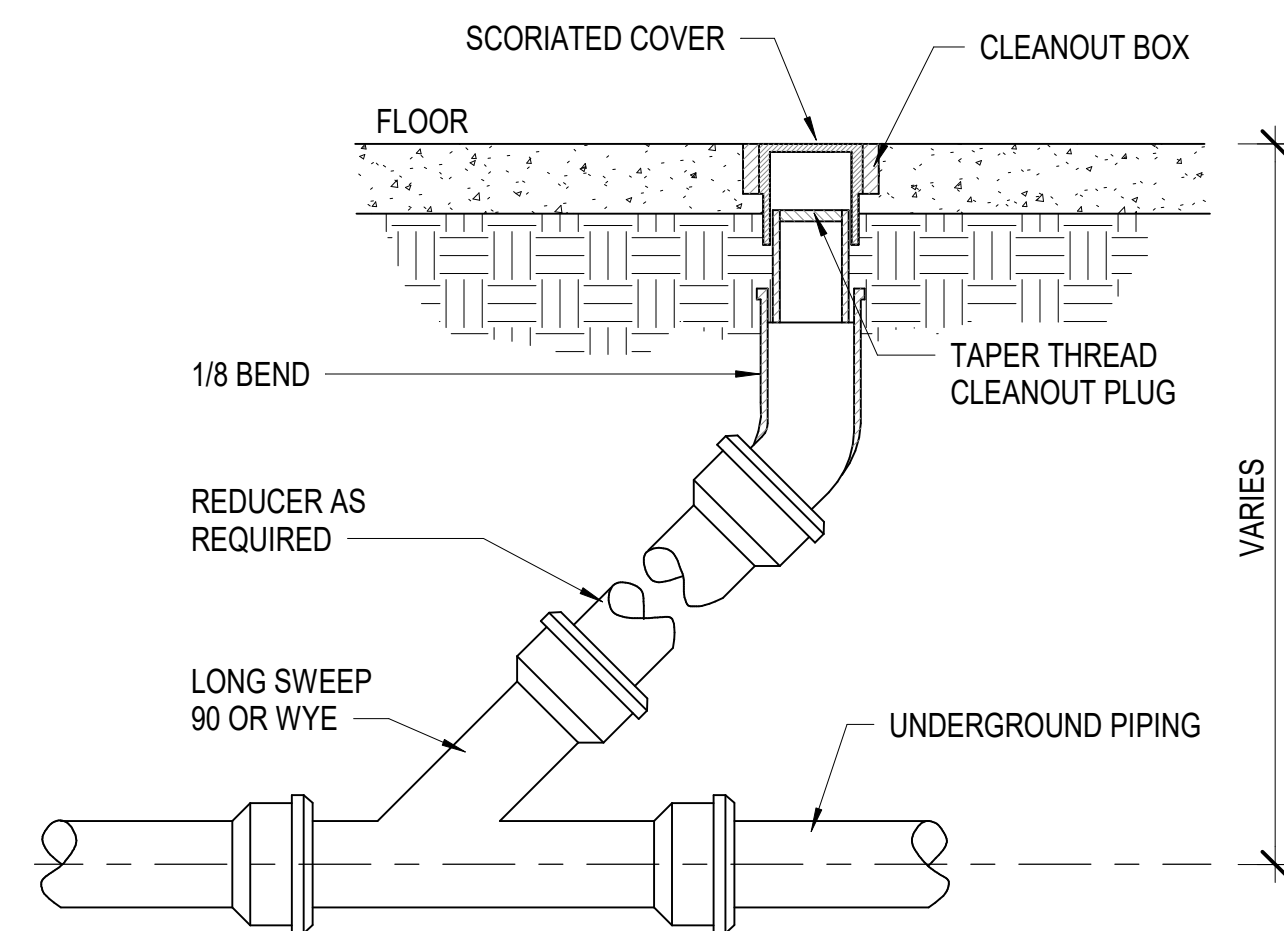
**D6 VERTICAL PIPE SUPPORT DETAIL**  
NO SCALE

- NOTE:  
1. REFER TO THE DRAWINGS FOR THE LOCATION OF THE VERTICAL PIPE SUPPORT MOUNTED TO THE BOTTOM OF THE SLAB.  
2. PIPE SUPPORTS SHALL BE GALVANIZED STEEL OR COPPER PLATED WHEN IN CONTACT WITH COPPER PIPING.

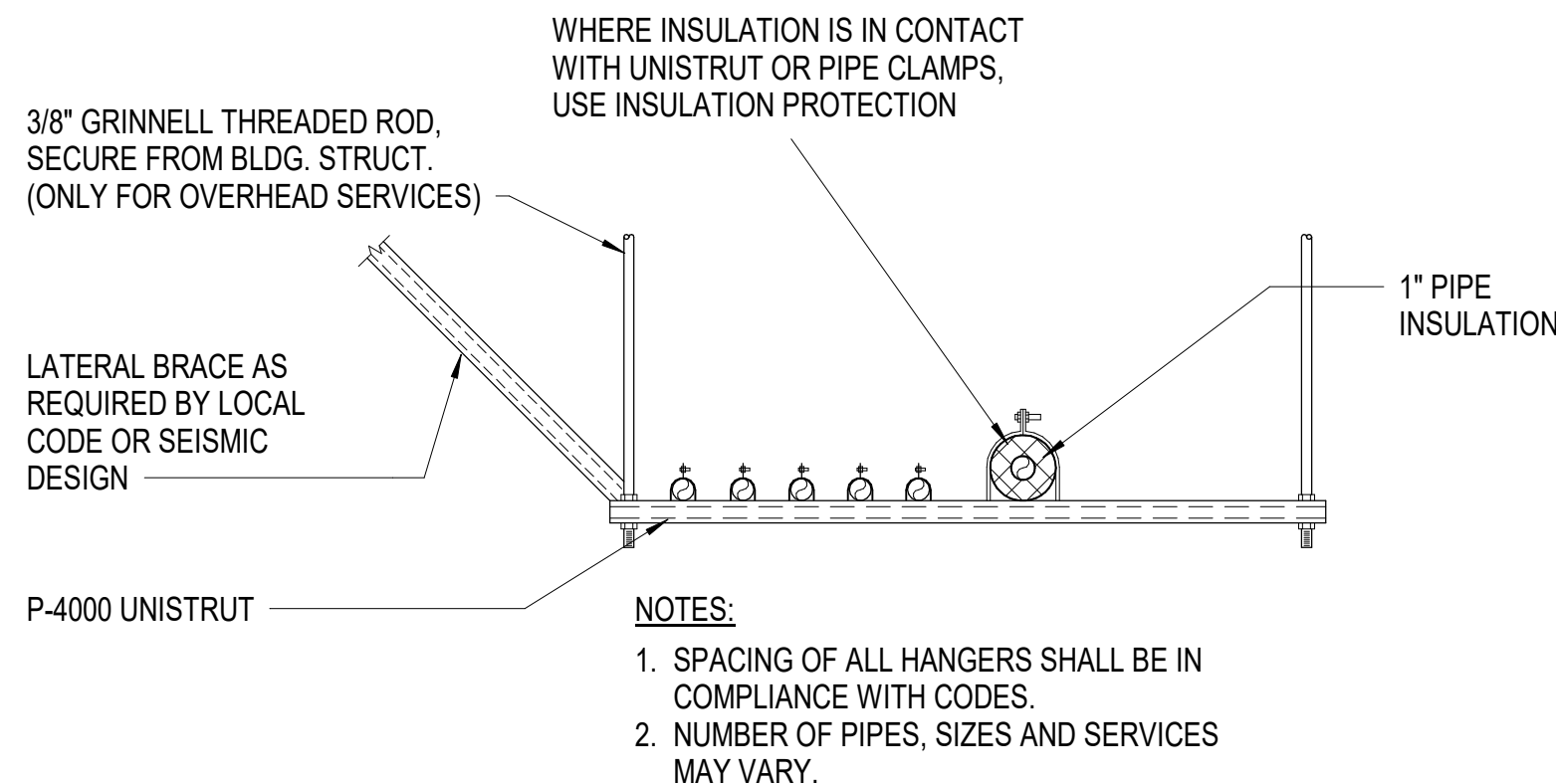
RATED ASSEMBLIES SCHEDULE			
PENETRATING ITEM	CONCRETE BLOCK	GYPSUM WALL	CONCRETE FLOOR
SINGLE METAL PIPE	C-AJ 1226 (3 HR F RATING)	W-L 1054 (2 HR F RATING)	F-A 1016 (2 HR F RATING)
	C-AJ 1278 (3 HR F RATING)	W-L 1164 (2 HR F RATING)	F-A 1105 (2 HR F & T RATING)
	C-AJ 1597 (3 HR F & 2.75 HR T RATING)	W-L 1410 (2 HR F RATING)	
	C-AJ 1610 (2 HR F & T RATING)		
MULTIPLE METAL PIPES	C-AJ 5044 (3 HR F RATING)	W-L 1389 (2 HR F RATING)	F-A 1127 (2 HR F & T RATING)
		W-L 1408 (2 HR F RATING)	F-A 1066 (3 HR F RATING)
INSULATED METAL PIPE	C-AJ 5091 (2 HR F RATING, 1 HR T RATING)	W-L 5096 (2 HR F RATING)	F-A 5015 (2 HR F RATING)
	C-AJ 5096 (2 HR F RATING)	W-L 5027 (2 HR F RATING)	F-A 5016 (3 HR F & T RATING)
PVC, CPVC PIPE	C-AJ 2109 (3 HR F & T RATING)	W-L 2078 (2 HR F & T RATING)	F-A 2053* (2 HR F RATING)
	C-AJ 5096 (2 HR F RATING)	W-L 2084 (2 HR F RATING)	F-A 2054* (3 HR F & T RATING)
PP PIPING	C-AJ 2285 (2 HR F & T RATING)	W-L 2473 (2 HR F, 1 HR T RATING)	F-A 2141 (2 HR F & T RATING)
INSULATED PP PIPING		W-L 2043 (2 HR F & T RATING)	



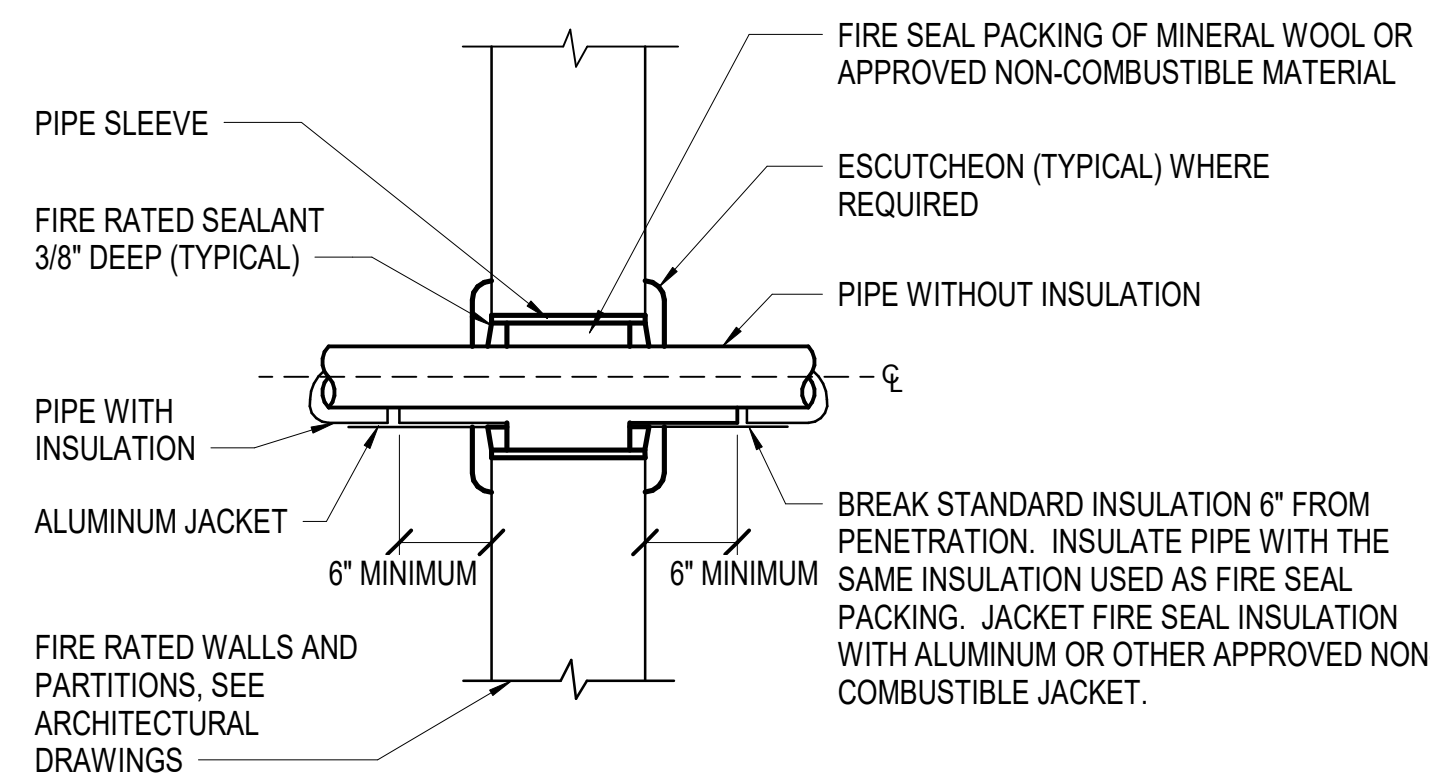
**C4 PIPE SLEEVE THRU EXTERIOR WALL**  
NO SCALE



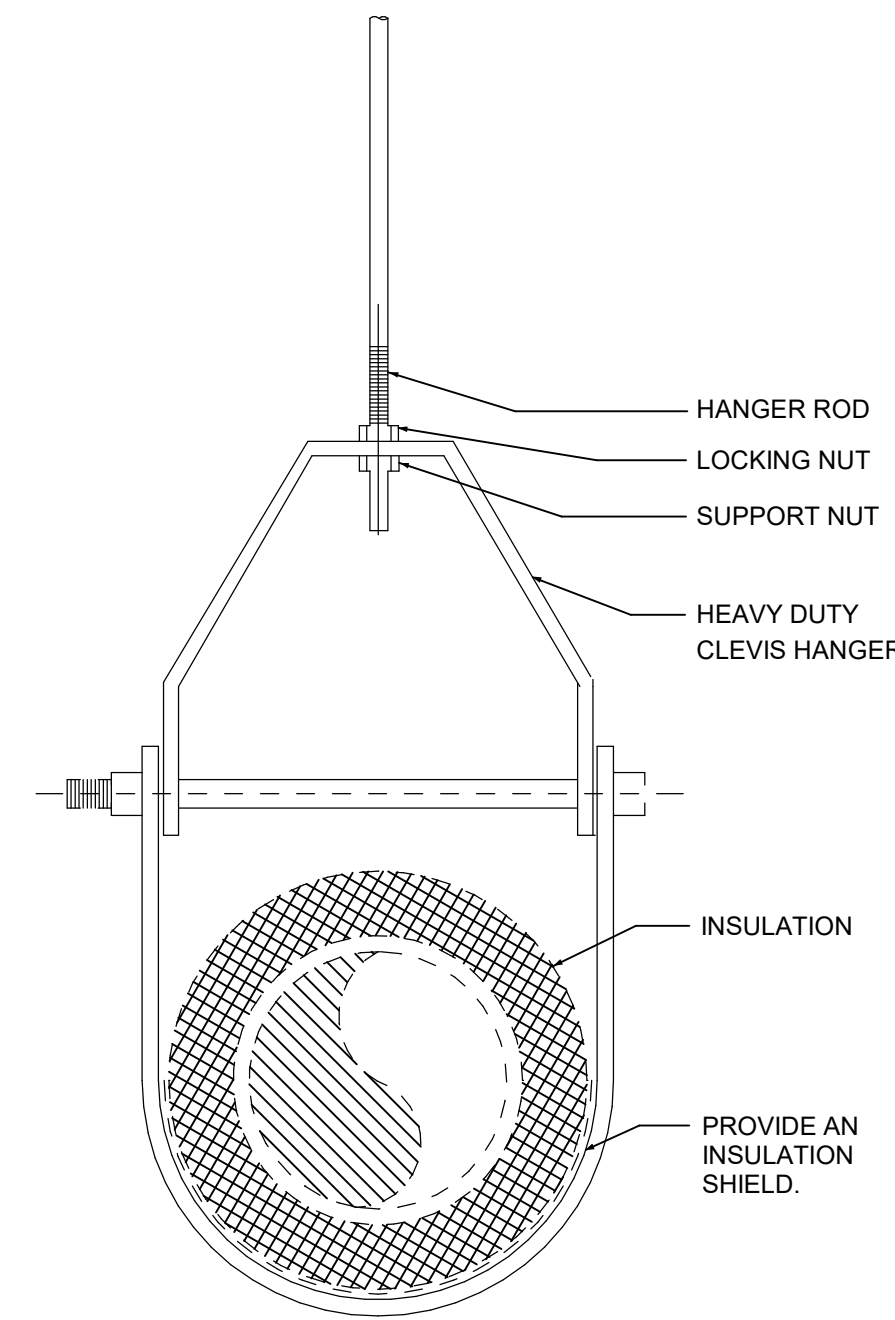
**C5 FLOOR CLEANOUT DETAIL**  
NO SCALE



**A4 OVERHEAD TRAPEZE PIPING SUPPORT**  
NO SCALE



**A5 PIPE SLEEVE THRU FIRE RATED WALL OR FLOOR**  
NO SCALE



**A6 CLEVIS HANGER DETAIL**  
NO SCALE

MAXIMUM PIPE SUPPORT SPACING			
PIPE SIZE	HORIZONTAL		
	1"	1 1/4"	1 1/2" AND LARGER
COPPER PIPING	6 FT	10 FT	10 FT
PIPE SIZE	ALL PIPE SIZES		
	ALL PIPE SIZES		
CAST IRON PIPING	5 FT (10 FT WHERE 10 FOOT LENGTH OF PIPE ARE USED)	10 FT	15 FT

NOTE:  
FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE ON TRAPEZE.  
PIPE SUPPORTS SHALL BE GALVANIZED STEEL OR COPPER PLATED WHEN IN CONTACT WITH COPPER PIPING.

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PERMIT DRAWINGS

REVISIONS

KEY PLAN

SHEET

PLUMBING DETAILS

**PE201**

DESIGN: AWB  
DRAWN: AWB  
REVIEW: CN

CN 9568







ELECTRICAL SYMBOLS

SYMBOL			DESCRIPTION
EXISTING	DEMO	PROVIDE	LIGHTING
			LIGHTING FIXTURE. (→ INDICATES BRACKET, WALL MOUNTED FIXTURES). "A" INDICATES FIXTURE TYPE PER LIGHTING FIXTURE SCHEDULE.
			EMERGENCY LIGHTING FIXTURE (→ INDICATES BRACKET, WALL MOUNTED FIXTURES).
			EXIT LIGHTING FIXTURE. ARROW, WHEN USED, INDICATES DIRECTION. (→ INDICATES BRACKET, WALL MOUNTED FIXTURES). FILLED IN QUADRANT(S) OF SYMBOL INDICATES NUMBER AND ORIENTATION OF ILLUMINATED FACES. (SEE LEGEND NOTE 2)
S	S	S <sup>a</sup>	SINGLE POLE SWITCH, 20 A, 120/277 V. MOUNT 48" AFF UON. <sup>a</sup> TO INDICATE SWITCH GROUP.
			DUAL TECHNOLOGY OCCUPANCY SENSOR CONTROLLER, CEILING MOUNTED.
			POWER DEVICES
			DUPLEX CONVENIENCE RECEPTACLE, 20 A, 125 VAC, MOUNT + 18" AFF UON. "WP" INDICATES WEATHERPROOF OUTLET. "GFI" INDICATES RECEPTACLE WITH INTERNAL GROUND FAULT PROTECTION.
			RECEPTACLE AS NOTED ABOVE BUT, MOUNT 48" AFF OR 6" ABOVE BACKSPLASH OR COUNTER TOP WHERE COUNTER IS INDICATED.
			EQUIPMENT CONNECTIONS
			EQUIPMENT CONNECTION. FOR MECHANICAL / PLUMBING EQUIPMENT; DISCONNECT SWITCHES, STARTERS, VFD'S, AND OTHER REQUIRED COMPONENTS FOR THE OPERATION OF THE EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL / PLUMBING CONTRACTOR. PROVIDE CONDUIT AND WIRING FROM THE POWER SOURCE TO THE DISCONNECT SWITCH, FROM THE DISCONNECT SWITCH TO THE STARTER / VFD, AND FROM THE STARTER / VFD TO THE FINAL EQUIPMENT CONNECTION.
			JUNCTION BOX
		AHU-1	EQUIPMENT TAG.
			DISCONNECT SWITCH. PROVIDE 600 V IN NEMA 1 ENCLOSURE UON. 3P = NO. OF POLES, 60 = SWITCH RATING, 40 = FUSE RATING (NF INDICATES NON-FUSIBLE) (SEE LEGEND NOTE 3)
			DISCONNECT SWITCH PROVIDED INTEGRAL WITH EQUIPMENT.

SYMBOL			DESCRIPTION
EXISTING	DEMO	PROVIDE	DISTRIBUTION
			PANELBOARD - 240/120V
			WIRE, CONDUIT AND RACEWAY
			BRANCH CIRCUIT OR FEEDER WIRING IN CONDUIT. NO LABEL INDICATES 2 #12 CONDUCTORS & 1 #12 GND IN 1/2" CONDUIT. CONDUIT LARGER THAN 1/2", CONDUCTOR QUANTITY MORE THAN 3, OR WIRE LARGER THAN #12 SHALL BE AS INDICATED. (SEE LEGEND NOTE 1)
			L2A-1,3 HOMERUNS TO PANEL. PANEL AND CIRCUIT DESIGNATIONS AS INDICATED.
			INDICATES A CONDUIT RUN CONCEALED IN CEILING, WALL, FLOOR, OR ABOVE SUSPENDED CEILING UON. (SEE LEGEND NOTES 1 & 4)
EXISTING	DEMO	PROVIDE	GENERAL
		#	NOTE REFERENCE - TYPICALLY LOCATED ON SAME SHEET WHERE SYMBOL IS USED, UON.
		101	ROOM NUMBER.

ELECTRICAL ABBREVIATIONS

A	AMPERE	MLO	MAIN LUG ONLY
AF	AMPERE FRAME	MOCP	MAXIMUM OVERCURRENT PROTECTION
AFF	ABOVE FINISHED FLOOR	MT	MOUNT
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
AT	AMPERE TRIP	MTG HT	MOUNTING HEIGHT
ATC	AUTOMATIC TEMPERATURE CONTROL	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAUGE	NESC	NATIONAL ELECTRICAL SAFETY CODE
BLDG	BUILDING	NEU	NEUTRAL
BRKR	BREAKER	NF	NON FUSIBLE
C	CONDUIT	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCT	CORRELATED COLOR TEMPERATURE	NTS	NOT TO SCALE
CKT	CIRCUIT	OS	OCCUPANCY SENSOR
CRI	COLOR RENDERING INDEX	PH	PHASE
DISC SW	DISCONNECT SWITCH	PNL	PANEL
DWG	DRAWING	PVC	RIGID POLYVINYL CHLORIDE CONDUIT
EA	EACH	QTY	QUANTITY
EF	EXHAUST FAN	RCPT,	RECEPTACLE
ELEC	ELECTRICAL	REQ'D	REQUIRED
EMT	ELECTRICAL METALLIC TUBING	RM	ROOM
EQUIP	EQUIPMENT	RMC	RIGID METAL CONDUIT
EWC	ELECTRIC WATER COOLER	S.E.	SERVICE ENTRANCE
EXST	EXISTING	SIN	SOLID NEUTRAL
FLA	FULL LOAD AMPS	SBB	SECONDARY BONDING BUSBAR (FORMERLY TELECOMMUNICATIONS GROUND BUSBAR - TGB)
FMC	FLEXIBLE METAL CONDUIT	SC	SPLIT CIRCUIT (SEE LEGEND NOTE 2)
FT	FEET	SF	SUPPLY FAN
GFI	GROUND FAULT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE
GND	GROUND	SW	SWITCH
GRS	GALVANIZED RIGID METAL CONDUIT	TYP	TYPICAL
IMC	INTERMEDIATE METAL CONDUIT	UON	UNLESS OTHERWISE NOTED
KAIC	THOUSAND AMP CAPACITY, RMS SYMMETRICAL	V	VOLTAGE OR VOLTS
KVA	KILOVOLT AMPERE	VAC	VOLTS ALTERNATING CURRENT
LED	LIGHT EMITTING DIODE	W	WIRE
LTG	LIGHTING	WP	WEATHERPROOF
LTS	LUMINAIRE	XFMR	TRANSFORMER
MC	METAL-CLAD CABLE		
MCA	MINIMUM CIRCUIT AMPACITY		
MCB	MAIN CIRCUIT BREAKER		
MIN	MINIMUM		

GENERAL NOTES

- A. WIRING IN CONDUIT, MINIMUM SIZE ONE-HALF (1/2) INCH WITH LARGER SIZES AS INDICATED OR REQUIRED BY NEC.  
B. WIRE AND CABLE MUST BE #12 AWG MINIMUM.  
C. OPENINGS CREATED IN A FIRE OR SMOKE RATED WALL OR FLOOR BY PROVISION OF ANY ELECTRICAL DEVICE OR CONDUIT, MUST BE SEALED AFTER THE WORK IS COMPLETED WITH A UL APPROVED FIRE/SMOKE SEALANT TO RE-ESTABLISH THE PREVIOUS RATING OF THE WALL OR FLOOR.  
D. COORDINATE EXACT LOCATION OF CEILING MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL REFLECTED CEILING PLANS.  
E. DRAWINGS WERE CREATED FROM NON-INVASIVE VISUAL INSPECTIONS AND CONTRACTOR TO VISIT THE SITE AND BECOME FAMILIAR WITH THE SCOPE OF THESE DRAWINGS. CONTRACTOR TO VERIFY FIELD CONDITIONS MATCH THOSE OF THE DRAWINGS PRIOR TO ACCOMPLISHING WORK. IF FIELD CONDITIONS DO NOT MATCH WHAT IS SHOWN ON DRAWINGS, NOTIFY ENGINEER AS SOON AS POSSIBLE.

LEGEND NOTES

1. WIRE AND CONDUIT FOR MOTOR AND EQUIPMENT LOADS MUST BE CONTINUOUS IN SIZE AND COUNT FROM SOURCE TO FINAL CONNECTION. SIZE AND COUNT AS INDICATED ON THE CIRCUIT HOMERUN UNLESS OTHERWISE NOTED.  
2. BRANCH CIRCUIT WIRING TO EXIT LIGHT FIXTURES AND TO THE BATTERY INVERTERS WITHIN FIXTURES WITH INTEGRAL BATTERY UNITS MUST BE UNSWITCHED, CONNECTED AHEAD OF ANY CONTROL SWITCHES.  
3. A (\*) IN THE FUSE RATING OR TRIP RATING POSITION FOR THIS SYMBOL INDICATES TO PROVIDE FUSE OR BREAKER TRIP RATING IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION.  
4. WHERE EQUIPMENT OR DEVICES ARE NOTED AS "REMOVE", REMOVE CONDUCTORS ASSOCIATED WITH THESE ITEMS TO THE LAST ACTIVE ITEM ON THE CIRCUIT, OR TO THE BRANCH CIRCUIT BREAKER IF ALL ITEMS ON THE CIRCUIT ARE REMOVED. REMOVE CONDUITS FOR THESE CIRCUITS WHERE THEY RUN EXPOSED OR IN CEILING OR FLOOR PLENUMS. CONDUITS RUN CONCEALED IN WALLS OR FLOOR SLABS SHALL BE CUT OFF FLUSH WITH SURFACE AND ABANDONED. VOIDS IN WALLS OR FLOOR SLABS LEFT BY THE REMOVAL OF ELECTRICAL EQUIPMENT OR CONDUITS MUST BE FILLED WITH NON-SHRINK GROUT AND FINISHED TO MATCH ADJACENT SURFACES.

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL NO.	SOURCE		CCT	CRI	LUMEN OUTPUT	MOUNTING
				NO.	TYPE				
A1	2X2 LED FLAT PANEL, 3500K CCT, UNIVERSAL DRIVER, 3300 LUMEN (SWITCHABLE) OUTPUT, RECESSED, WHITE FINISH.	COLUMBIA	CBT22-LS35	1	LED	3500 K	80	3300 lm	RECESSED
A1E	SAME AS A1 EXCEPT SUPPLIED WITH EMERGENCY EGRESS BATTERY PACK.				LED				
A2	2X4 LED FLAT PANEL, 3500K CCT, UNIVERSAL DRIVER, 3300 LUMEN (SWITCHABLE) OUTPUT, RECESSED, WHITE FINISH.	COLUMBIA	CBT24-LS35	1	LED	3500 K	80	3300 lm	RECESSED
D1	4" LED DOWNLIGHT, 80CRI, 1000 LUMENS (MINIMUM), 4000K CCT, 120V DRIVER.	WILLIAMS	4DR-TL-L10-8-40-DIM-UNV-L-W-CS-N	1	LED	4000 K	80	1000 lm	RECESSED
D2	SAME AS D1 EXCEPT WET LOCATION RATED.	WILLIAMS	4DR-TL-L10-8-40-DIM-UNV-L-W-CS-WET	1	LED	4000 K	80	1000 lm	RECESSED
V1	20" LED VANITY, 90CRI, 1190 LUMENS (MINIMUM), 3000K CCT, TO BE MOUNTED HORIZONTALLY ABOVE MIRROR, CENTER BETWEEN TOP OF MIRROR AND BOTTOM OF CEILING, LUMEN OUTPUT PER FOOT, 120V DRIVER.	WAC	WS-40720-3000-AL	1	LED	3000 K	90	1190 lm	SURFACE (WALL)
X1	MINI ARCHITECTURAL LED WALL PACK, 1,700 LUMENS (MINIMUM), GRAY COLOR FINISH, 80CRI, 4000K CCT, 120V DRIVER.	WILLIAMS	VMMV-L17-840-T3.**-SDGL-UNV	1	LED	4000 K	80	1700 lm	SURFACE (WALL) 8'-0" ABOVE FINISHED GRADE

LIGHTING FIXTURE SCHEDULE NOTES:

1. CONTRACTOR SHALL PROVIDE SUITABLE TRIM AND APPURTENANCES TO MOUNT FIXTURES IN TYPE OF CEILING OR WALL AS SPECIFIED IN ARCHITECTURAL FINISH SCHEDULES REGARDLESS OF CATALOG NUMBER GIVEN. CONTRACTOR SHALL VERIFY TYPE OF CEILING OR WALL PER ARCHITECTURAL FINISH SCHEDULES PRIOR TO PROCUREMENT OF LIGHT FIXTURES.  
2. LIGHTING FIXTURES SHALL HAVE A RATED LIFE OF NOT LESS THAN 24,000 HOURS.  
3. EGRESS FIXTURES PROVIDED WITH INDIVIDUAL MEANS OF DISCONNECT PER NEC ARTICLE 410.130(G), AS REQUIRED.

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GENERAL NOTES

1. HALF-TONE DENOTES EXISTING TO REMAIN, DASHED DENOTES DEMOLISH.
2. OCCUPANCY SENSOR WITHIN WOMEN'S [108] TO CONTROL FIXTURES WITHIN ITS RESPECTIVE AREA.

DEMO KEY NOTES

1. REMOVE DEVICES AND WIRING BACK TO LAST ACTIVE DEVICE, JUNCTION BOX, OR PANEL IN THIS AREA.
2. RECEPTACLE AND WIRING FOR WATER COOLER TO BE DEMOLISHED BACK TO LAST ACTIVE DEVICE, JUNCTION BOX, OR PANEL.
3. FIXTURES IN THIS AREA ARE EXISTING TO REMAIN.

GRAPHIC SCALE(S)



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REVISIONS


KEY PLAN

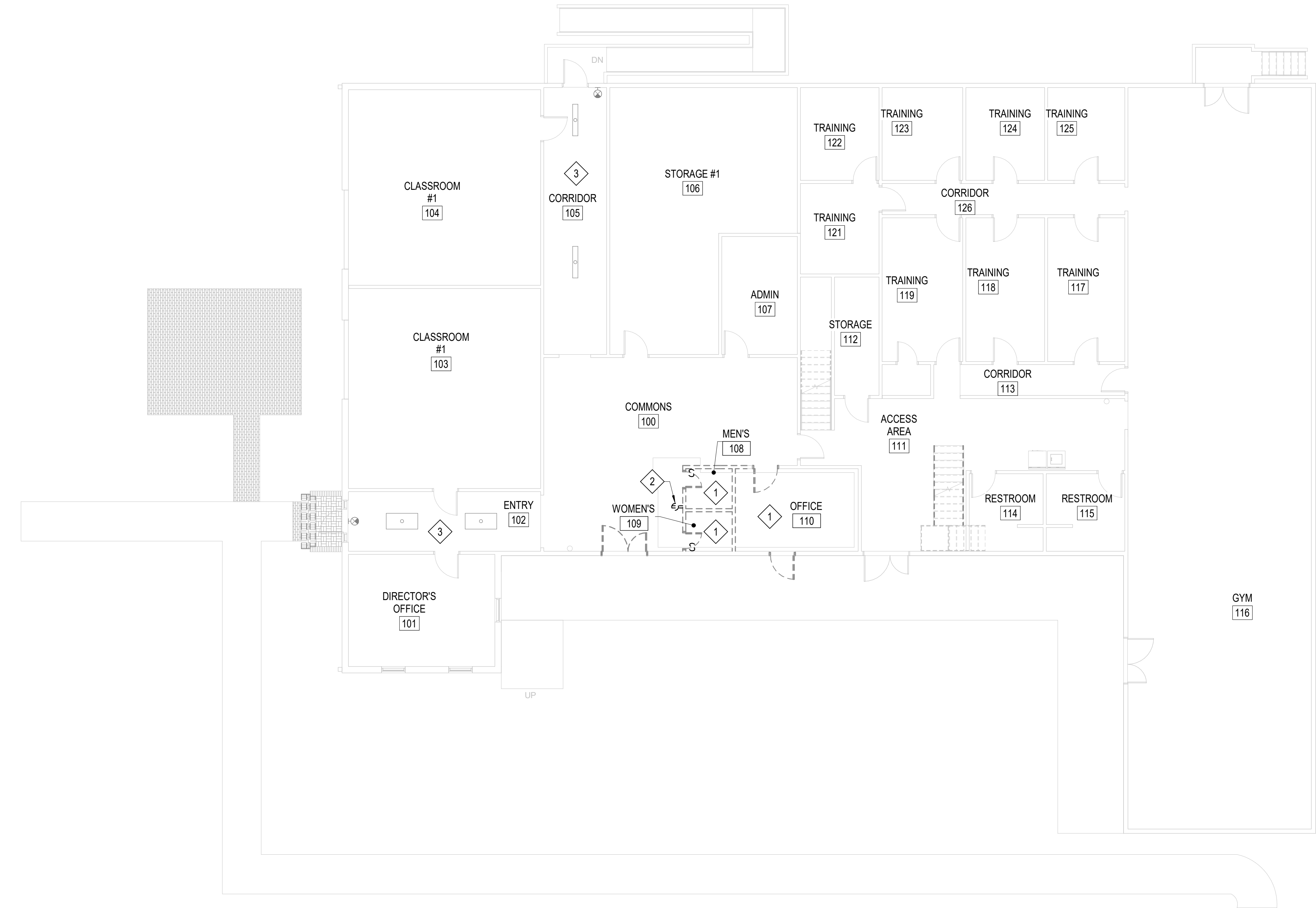
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ELECTRICAL DEMOLITION PLAN

ED101

DESIGN: JAR  
DRAWN: JAR  
REVIEW: JAR/PJR

CN 9568



A1 ELECTRICAL DEMOLITION PLAN

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



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GENERAL NOTES

1. SEE E-001 FOR GENERAL NOTES.

# KEY NOTES

- 1 INSTALL WALL PACK AT 8'-0" ABOVE FINISHED GRADE.  
2 FIXTURES IN THIS AREA ARE EXISTING TO REMAIN.

GRAPHIC SCALE(S)



CARTERET COMMUNITY COLLEGE

BASIC LAW  
ENFORCEMENT  
TRAINING

3705 ARENDELL STREET  
MOREHEAD CITY, NC 28557

DESIGNER



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CLARK NEXSEN LICENSE NUMBER: C-1028  
PROFESSIONAL SEAL

SUBMITTAL

03/09/2022

PERMIT DRAWINGS

REVISIONS

KEY PLAN

SHEET

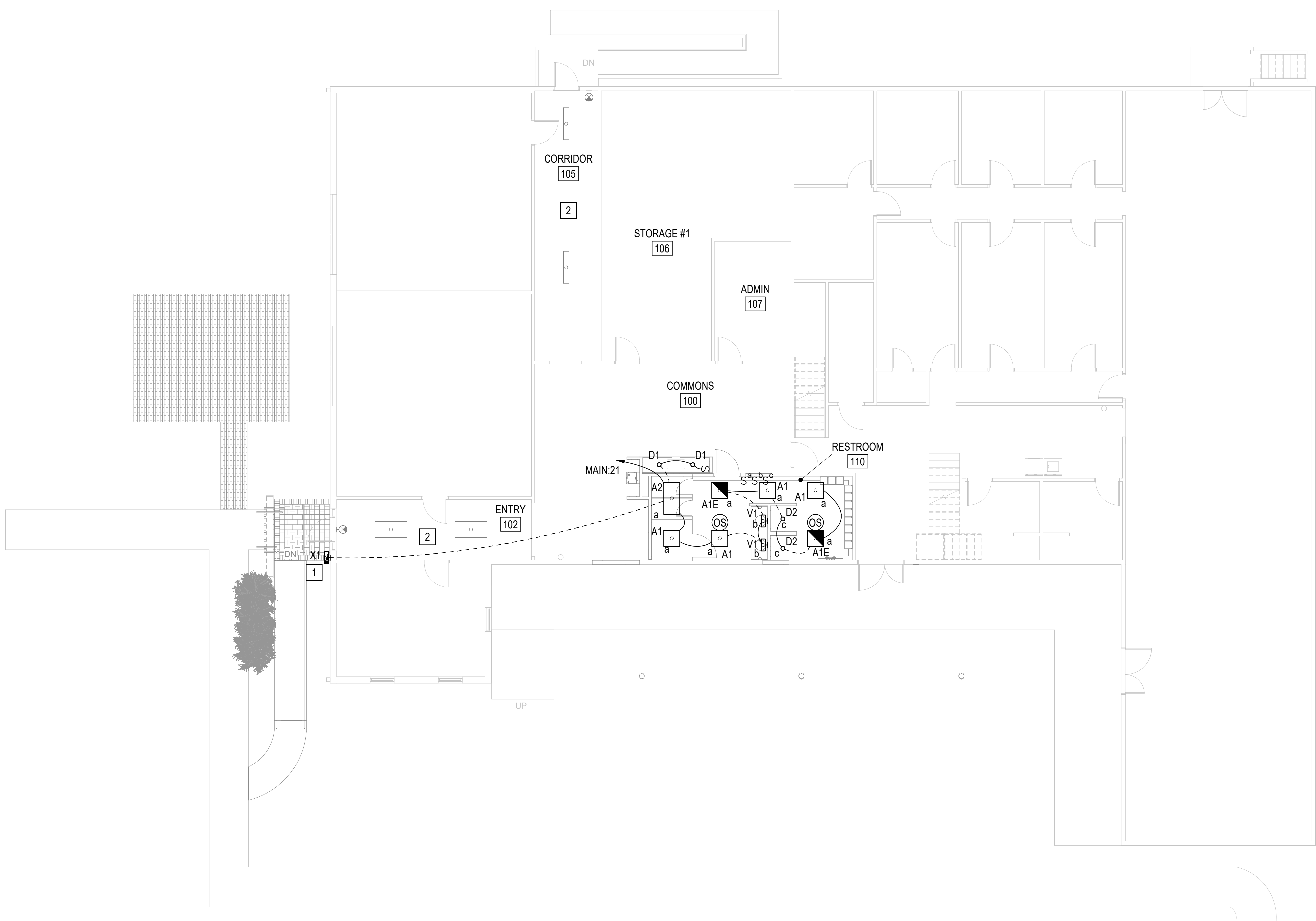
ELECTRICAL LIGHTING PLAN

DESIGN: JAR  
DRAWN: JAR  
REVIEW: JAR/PJR

CN 9568

A1 ELECTRICAL LIGHTING PLAN

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





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1  
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A

2

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4

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6

GENERAL NOTES

1. RECEPTACLES TO BE 120V, 20A RATED, WHITE COLOR FINISH. COVER PLATE TO BE PLASTIC, WHITE IN COLOR.

# KEY NOTES

- 1 CONNECTION FOR EDH-1 AND RECEPTACLE FOR ERV-1 TO BE INSTALLED IN PROXIMITY OF EQUIPMENT IN ATTIC ABOVE. SEE MECHANICAL SHEETS FOR EXACT LOCATIONS AND ADDITIONAL INFORMATION.
- 2 RECEPTACLE FOR MICROWAVE. COORDINATE WITH EXACT LOCATION PRIOR TO INSTALLATION.

GRAPHIC SCALE(S)



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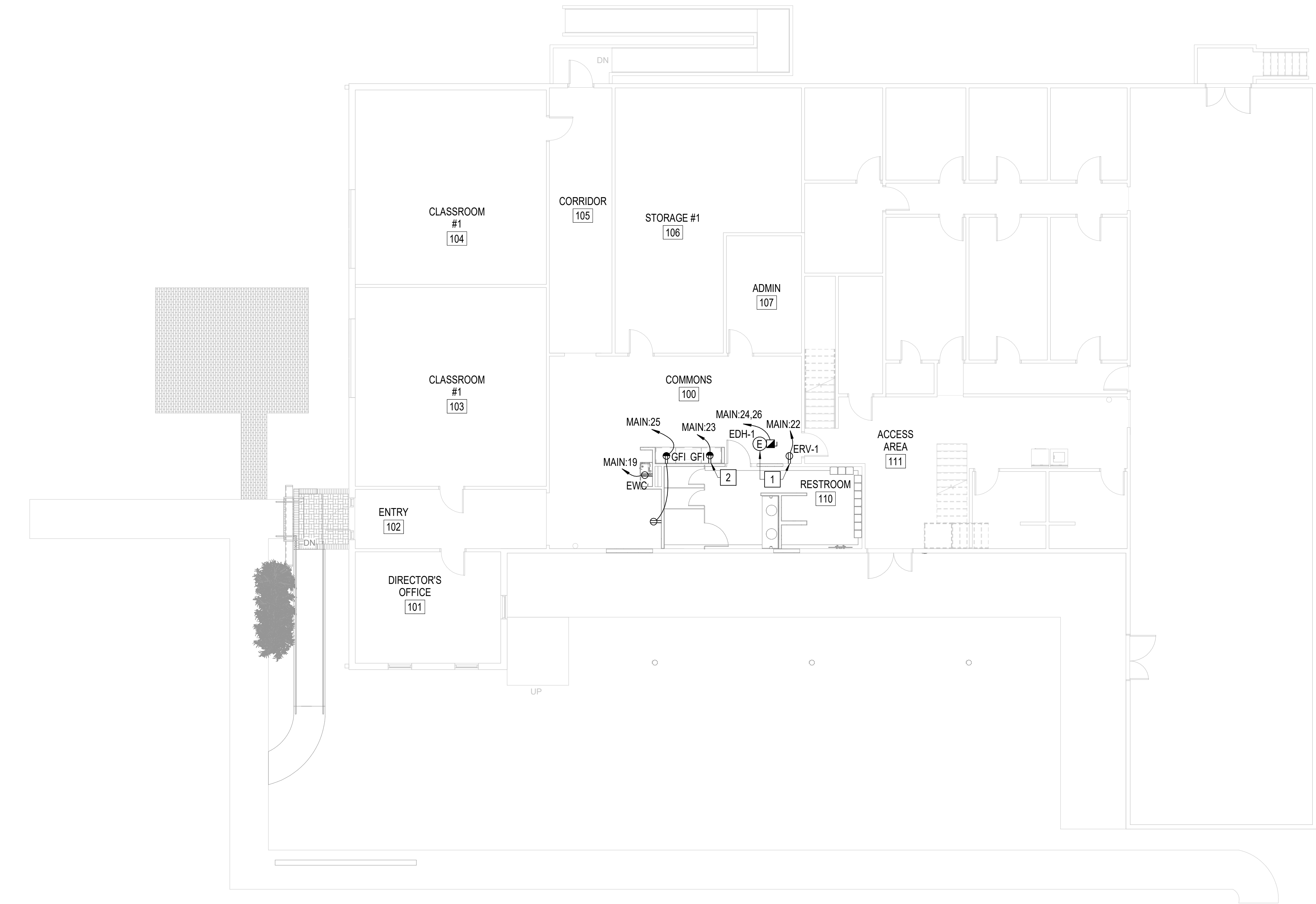
SHEET

ELECTRICAL POWER PLAN

**EP101**

DESIGN: JAR  
DRAWN: JAR  
REVIEW: JAR/PJR

CN 9568



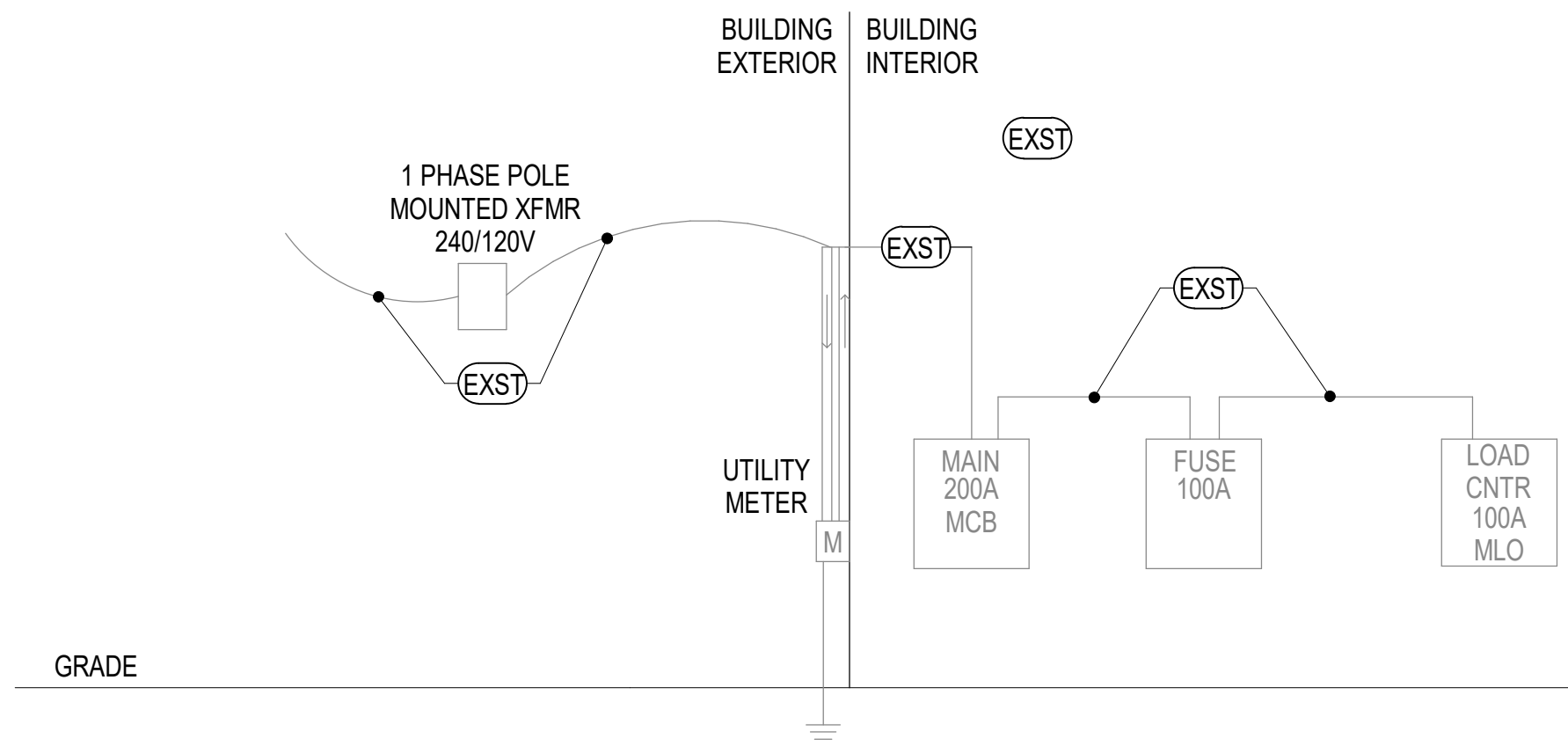
**A1 ELECTRICAL POWER PLAN**  
SCALE: 1/8" = 1'-0"



A1

## POWER RISER DIAGRAM

NOT TO SCALE



A3

## ELECTRICAL SPECIFICATIONS

NOT TO SCALE

### SECTION 260000 - ELECTRICAL SPECIFICATIONS

#### PART 1 - GENERAL REQUIREMENTS

A. THE SCOPE OF WORK DESCRIBED IN THIS SPECIFICATION SHALL INCLUDE THE FURNISHING OF ALL MATERIALS, EQUIPMENT, APPURTENANCES, ACCESSORIES, CONNECTIONS, LABOR, TRANSPORTATION, TOOLS, SUPERVISION, ETC. REQUIRED AND/OR NECESSARY TO COMPLETELY INSTALL AND LEAVE IN SAFE AND PROPER OPERATING CONDITION ALL ELECTRICAL SYSTEMS, ALL ITEMS NOT SPECIFICALLY MENTIONED HEREIN, WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE WORKING INSTALLATION, SHALL BE PROVIDED.

B. ELECTRICAL COMPONENTS INCLUDING BUT NOT LIMITED TO CONDUCTOR SIZE, OVERCURRENT PROTECTIVE DEVICE, AND DISCONNECT SWITCHES ARE BASED ON POWER REQUIREMENTS AS SHOWN ON THE CONTRACT DOCUMENTS. ALL COSTS (INCLUDING ADDITIONAL DESIGN FEES IF REQUIRED) ASSOCIATED WITH CHANGES TO THESE POWER REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR MAKING THE CHANGE.

#### C. CODES AND STANDARDS:

1. THE ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL CODES AND GUIDELINES, INCLUDING BUT NOT LIMITED TO THE:
  2. INTERNATIONAL BUILDING CODE
  3. AMERICAN WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES
  4. NFPA 70 - 2017 EDITION, NATIONAL ELECTRICAL CODE WITH NORTH CAROLINA AMENDMENTS.
  5. ASHRAE 90.1 - ENERGY EFFICIENT DESIGN
  6. NFPA 70E - NATIONAL ELECTRICAL SAFETY CODE
  7. ANSI/IEEE/ISA STANDARDS
  8. IESNA LIGHTING HANDBOOK
  9. 2018 NORTH CAROLINA ENERGY CONSERVATION CODE
- D. WARRANTY:
- ELECTRICAL SYSTEMS INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF FIVE YEAR FROM DATE OF FINAL ACCEPTANCE AGAINST ANY DEFECTS IN WORKMANSHIP OR MATERIAL.

#### 1.1 SUBMITTALS

A. LIGHTING CONTROL DEVICES, WIRING DEVICES, CIRCUIT BREAKERS, INTERIOR LIGHTING, TEST REPORTS, PERFORMANCE DATA, AND CERTIFICATIONS, AND OTHER INFORMATION AS REQUIRED TO PERMIT DETERMINATION BY THE ENGINEER/ARCHITECT AND OWNER WHETHER PROPOSED EQUIPMENT IS EQUAL TO SPECIFIED STANDARD.

### SECTION 260500 - COMMON WORK RESULTS FOR ELECTRICAL

#### 1.1 SUMMARY

A. ELECTRICAL EQUIPMENT COORDINATION, SLEEVES AND SLEEVE SEALS FOR RACEWAYS AND CABLES, AND COMMON ELECTRICAL INSTALLATION REQUIREMENTS.

#### 1.2 MATERIALS

##### A. SLEEVES FOR RACEWAYS AND CABLES:

1. STEEL PIPE SLEEVES.
  2. CAST-IRON PIPE SLEEVES.
  3. SLEEVES FOR RECTANGULAR OPENINGS.
- B. SLEEVE SEALS: MODULAR SEALING DEVICES WITH EPDM SEALING ELEMENTS, STAINLESS-STEEL PRESSURE PLATES, AND STAINLESS-STEEL CONNECTING BOLTS AND NUTS.
- C. APPLY FIRESTOPPING TO PENETRATIONS OF FIRE-RATED FLOOR AND WALL ASSEMBLIES FOR ELECTRICAL INSTALLATIONS TO RESTORE ORIGINAL FIRE-RESISTANCE RATING OF ASSEMBLY.
- D. INTERIOR PENETRATIONS OF NON-FIRE-RATED WALLS AND FLOORS: SEAL ANNULAR SPACE BETWEEN SLEEVE AND RACEWAY OR CABLE, USING JOINT SEALANT APPROPRIATE FOR SIZE, DEPTH, AND LOCATION OF JOINT.
- E. ROOF-PENETRATION SLEEVES: SEAL PENETRATION OF INDIVIDUAL RACEWAYS AND CABLES WITH FLEXIBLE BOOT-TYPE FLASHING UNITS APPLIED IN COORDINATION WITH ROOFING WORK.

### SECTION 260519 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES

#### 1.1 SUMMARY

A. BUILDING WIRES, CABLES, CONNECTORS, SPLICES, AND TERMINATIONS FOR WIRING SYSTEMS RATED 600 V AND LESS; AND SLEEVES AND SLEEVE SEALS FOR CABLES.

#### 1.2 QUALITY ASSURANCE

##### A. QUALITY STANDARD: NFPA 70.

#### 1.3 MATERIALS

- A. CONDUCTORS AND CABLES:
1. CONDUCTORS: COPPER.
  2. CONDUCTOR INSULATION: TYPES THHN-THWN.
- B. CONNECTORS AND SPLICES: FACTORY FABRICATED.

#### 1.4 CONDUCTOR MATERIAL APPLICATIONS

- A. FEEDERS: COPPER SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.
- B. BRANCH CIRCUITS: COPPER, SOLID FOR NO. 10 AWG AND SMALLER; STRANDED FOR NO. 8 AWG AND LARGER.

#### 1.5 CONDUCTOR AND INSULATION APPLICATIONS

- A. EXPOSED BRANCH CIRCUITS, TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
- B. BRANCH CIRCUITS CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN-THWN, SINGLE CONDUCTORS IN RACEWAY.
- F. CLASS 1 CONTROL CIRCUITS: TYPE THHN-THWN, IN RACEWAY.
- G. CLASS 2 CONTROL CIRCUITS: TYPE THHN-THWN, IN RACEWAY.
- H. CORD DROPS AND PORTABLE APPLIANCE CONNECTIONS: TYPE SO, HARD SERVICE CORD WITH STAINLESS STEEL, WIRE-MESH, STRAIN RELIEF DEVICE AT TERMINATIONS TO SUIT APPLICATION.

### SECTION 260526 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

#### 1.1 SUMMARY

A. METHODS AND MATERIALS FOR GROUNDING ELECTRICAL SYSTEMS AND EQUIPMENT.

#### 1.2 QUALITY ASSURANCE

A. QUALITY STANDARD FOR GROUNDING MATERIALS AND EQUIPMENT: UL 467.

#### 1.3 PRODUCTS

- A. INSULATED CONDUCTORS: COPPER WIRE AND CABLE.
- B. BARE COPPER CONDUCTORS:

1. SOLID CONDUCTORS.
2. STRANDED CONDUCTORS.
3. TINNED CONDUCTORS.
4. STRANDED BONDING CONDUCTORS.
5. COPPER TAPE BRAIDED BONDING JUMPERS.

C. CONNECTORS: BOLTED AND EXOTHERMIC-WELDED TYPE.

D. GROUNDING ELECTRODES:

1. GROUND RODS: COPPER-CLAD STEEL, 3/4 INCH BY 10 FEET IN DIAMETER.

#### 1.4 GROUNDING APPLICATIONS

- A. CONDUCTORS: SOLID FOR NO. 8 AWG AND SMALLER; STRANDED FOR NO. 6 AWG AND LARGER.
- B. UNDERGROUND GROUNDING CONDUCTORS: BARE TINNED-COPPER CONDUCTOR, NO. 3/0 AWG MINIMUM. BURY AT LEAST 36 INCHES BELOW GRADE.
- C. GROUNDING BUS.
- D. CONDUCTOR TERMINATIONS AND CONNECTIONS: BOLTED AND WELDED.
- E. INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH CIRCUIT CONDUCTORS FOR THE FOLLOWING:
1. FEEDERS AND BRANCH CIRCUITS.
  2. LIGHTING CIRCUITS.
  3. RECEPTACLE CIRCUITS.
  4. SINGLE-PHASE MOTOR AND APPLIANCE BRANCH CIRCUITS.
  5. FLEXIBLE RACEWAY RUNS.
- F. SIGNAL AND COMMUNICATION EQUIPMENT.
- G. SERVICE AND CENTRAL EQUIPMENT LOCATIONS AND WIRING CLOSETS.
- H. TERMINAL CABINETS.
- I. GROUND RESISTANCE TESTING: BY CONTRACTOR, USE CLAMP ON TESTING.

### SECTION 260529 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS

#### 1.1 PERFORMANCE REQUIREMENTS

A. RATED STRENGTH: MINIMUM STRUCTURAL SAFETY FACTOR OF FIVE TIMES THE APPLIED FORCE.

#### 1.2 PRODUCTS

##### A. SUPPORT, ANCHORAGE, AND ATTACHMENT COMPONENTS:

1. STEEL SLOTTED SUPPORT SYSTEMS WITH METALLIC COATINGS.
2. RACEWAY AND CABLE SUPPORTS.
3. STEEL AND MALLEABLE-IRON CONDUIT AND CABLE HANGERS, CLAMPS, AND ASSOCIATED ACCESSORIES.
4. SUPPORT FOR NON-ARMORED CONDUCTORS AND CABLES IN VERTICAL CONDUIT RISERS.
5. STRUCTURAL STEEL FOR FABRICATED SUPPORTS AND RESTRAINTS.
6. MOUNTING, ANCHORING, AND ATTACHMENT COMPONENTS: a. POWDER-ACTUATED FASTENERS. b. MECHANICAL EXPANSION ANCHORS. c. FABRICATED METAL EQUIPMENT SUPPORT ASSEMBLIES: WELDED OR BOLTED STEEL SHAPES. d. CONCRETE BASES: 3000-PSI, 28-DAY COMPRESSIVE-STRENGTH CONCRETE.

### SECTION 260553 - IDENTIFICATION FOR ELECTRICAL SYSTEMS

#### 1.1 SUMMARY

- A. ELECTRICAL IDENTIFICATION MATERIALS AND DEVICES:
1. IDENTIFICATION FOR RACEWAY.
  2. IDENTIFICATION FOR CONDUCTORS AND COMMUNICATION AND CONTROL CABLE.
  3. WARNING LABELS AND SIGNS.
  4. INSTRUCTION SIGNS.
  5. EQUIPMENT IDENTIFICATION LABELS.
  6. MISCELLANEOUS IDENTIFICATION PRODUCTS.
- 1.2 QUALITY ASSURANCE
- A. COMPLY WITH ANSI A13.1 AND ANSI C2.

- A. CONDUCTOR AND CABLE IDENTIFICATION: MARKER TAPE.
- B. EQUIPMENT LABELS: ENGRAVED PLASTIC.
- C. WARNING SIGNS: BAKED ENAMEL.
- D. INSTRUCTION SIGNS: ENGRAVED, LAMINATED ACRYLIC OR MELAMINE PLASTIC.

### SECTION 262726 - WIRING DEVICES

#### 1.1 PRODUCTS

- A. RECEPTACLES: DUPLEX, 125 V, 20 A.
1. STRAIGHT BLADE: CONVENIENCE RECEPTACLES, COMPLY WITH NEMA WD1, NEMA WD6, AND UL 498.
  2. GFCI: FEED THROUGH-TYPE. INCLUDE INDICATOR LIGHT THAT IS LIGHTED WHEN DEVICE IS TRIPPED.
- B. CORD AND PLUG SETS.
- C. SNAP SWITCHES: 120/277 V, 20 A.
- D. WALL PLATES:
1. WALL PLATE COLOR TO BE WHITE
- E. FINISHES:
1. AS SELECTED BY ARCHITECT, UNLESS OTHERWISE INDICATED OR REQUIRED BY NFPA 70 OR DEVICE LISTING.

### SECTION 265119 - LED INTERIOR LIGHTING

1. WARRANTY
2. Materials and Workmanship for Luminaires: 10 years.
3. Listing to be per minimum of one of the following:
  - A. LED Lighting Facts Website
  - B. Energy Star Website
  - C. Design Light Consortium Website
4. LUMINAIRE REQUIREMENTS
5. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70.
6. Factory-Applied Labels: Comply with UL 1508.
7. Recessed luminaires shall comply with NEMA LE 4.
8. Luminaires shall be provided with integral disconnects, except where remote switch control is provided for a single luminaire. Switches must be reusable after driver replacement.
9. LED drivers shall have Total Harmonic Distortion (THD) not exceeding 20%.
10. Luminaires shall have a power factor greater than 90%.
11. Indoor luminaires shall be provided with 2kV (minimum) surge suppression integral with driver.
12. Neutral is not to be shared on LED lighting circuits.

#### 1.4 MATERIALS

- A. Lighting Diffusers: Frosted, UV-stabilized acrylic.
- B. Luminaire Support:
1. Single-Stem Hangers: Steel tubing with swivel ball fittings and ceiling canopy.
  2. Wires: Soft temper, zinc-coated steel, 12 gage.
  3. Rod Hangers: Cadmium-plated, threaded steel rod.
  4. Hook Hangers: Integrated assembly matched to luminaire, line voltage, and equipment with threaded attachment, cord, and locking-type plug.

END OF SECTION 265119

### SECTION 260533 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS

#### 1.1 SUMMARY

A. RACEWAYS, FITTINGS, BOXES, ENCLOSURES, AND CABINETS FOR ELECTRICAL WIRING.

#### 1.2 MATERIALS

##### A. METAL CONDUIT AND TUBING:

1. CONDUIT: RIGID STEEL.
2. IMC.
3. EMT.
4. FMC: ZINC-COATED STEEL.
5. LFMC.

##### B. NONMETALLIC CONDUIT AND TUBING: RNC.

- C. METAL WIREWAYS: SHEET METAL, NEMA TYPE 1 FOR INSIDE AND TYPE 3R FOR DAMP OR WET LOCATIONS, UNLESS OTHERWISE INDICATED.
1. WIREWAY COVERS: SCREW-COVER TYPE.
- D. BOXES, ENCLOSURES, AND CABINETS:
1. OUTLET AND DEVICE BOXES: CAST METAL AND NONMETALLIC.
  2. PULL AND JUNCTION BOXES: CAST METAL.
  3. HINGED-COVER ENCLOSURES: METAL.
  4. CABINETS: GALVANIZED STEEL.
  5. SURFACE RACEWAY: ALUMINUM.

#### PART 3 - INSTALLATION

##### A. RACEWAY APPLICATIONS:

1. OUTDOORS:
  - a. EXPOSED: RIGID STEEL OR IMC.
  - b. CONCEALED, ABOVEGROUND: RIGID STEEL OR IMC.
  - c. UNDERGROUND: RNC, TYPE EPC-40-PVC; DIRECT BURIED, TYPE EPC-80. PVC FOR DUCTS CROSSING DRIVEWAYS AND ROADWAYS.
  - d. CONNECTION TO VIBRATING EQUIPMENT: LFMC.
  - e. BOXES AND ENCLOSURES, ABOVEGROUND: NEMA TYPE 3R.
2. INDOORS:
  - a. EXPOSED: NOT SUBJECT TO PHYSICAL DAMAGE AND WHERE INSTALLED EIGHT FEET AFF: EMT.
  - b. EXPOSED AND SUBJECT TO SEVERE DAMAGE: RIGID STEEL OR IMC.
  - c. CONCEALED: EMT.
  - d. CONNECTION TO VIBRATING EQUIPMENT: FMC, EXCEPT LFMC IN DAMP OR WET LOCATIONS.
  - e. DAMP OR WET LOCATIONS: RIGID STEEL OR IMC.
  - f. BOXES AND ENCLOSURES: NEMA TYPE 1, EXCEPT NEMA TYPE 4 IN DAMP OR WET LOCATIONS.

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PERMIT DRAWINGS

REVISIONS

KEY PLAN

SHEET

PANELBOARD SCHEDULES,  
POWER RISER DIAGRAM, AND  
LOAD SUMMARY

EP601

DESIGN: JAR  
DRAWN: JAR  
REVIEW: JAR/PJR

CN 9568