

NEW RESTROOM FOR

TOWN OF DAUPHIN ISLAND

DAUPHIN ISLAND, AL

DESIGN PROFESSIONALS

ARCHITECT

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ENGINEER - MECHANICAL / PLUMBING / ELECTRICAL

JOEL DAVIS, P.E.
 CDC ENGINEERS
 4912 OAK CIRCLE DR. N.
 MOBILE, AL 36609
 251-662-5891



BUILDING DATA:

APPLICABLE CODES (SEE G-2.0 FOR FULL LIST):
 2018 INTERNATIONAL BUILDING CODE
 OCCUPANCY - BUSINESS
 CONSTRUCTION TYPE - TYPE V-B - UNPROTECTED
 ACTUAL AREA - 675 S.F.
 ALLOWABLE AREA - 9,000 S.F.

INDEX OF DRAWINGS

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**CLARK | GEER | LATHAM
AND ASSOCIATES, INC.**
3901 SPRINGHILL AVENUE | MOBILE, AL 36608 | 251-344-7073

NEW RESTROOMS FOR
TOWN OF DAUPHIN ISLAND
 661 BIENVILLE BLVD., DAUPHIN ISLAND, AL 36528

REV.	DATE	BY	DESCRIPTION

PROJECT NUMBER: 2143-02
DRAWN BY: RAD
CHECKED BY: MER
ISSUE DATE: 4/1/2024

DESCRIPTION

SHEET TITLE:
COVER SHEET

SHEET NUMBER:
G-1.0

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS - 2018 IBC

1. GENERAL INFORMATION

Name of Project: NEW RESTROOMS FOR DAUPHIN ISLAND PARK & BEACH BOARD
Address: 811 BIENVILLE BLVD., DAUPHIN ISLAND, AL 36528
Proposed Use: BUSINESS
Owner: TOM CLARK
Address: 3901 SPRING HILL AVE., MOBILE, AL 36608
Phone: 251-544-7073
Fax: 251-543-9179
E-Mail: jlanapp@cgleneg.com
Contractor: TO BE DETERMINED
Address:
Phone:
Fax:
State License No:

2. LEAD DESIGN PROFESSIONAL LINDA G. SNAPP

Table with 4 columns: Designer, Name, License#, Phone. Lists architectural, civil, electrical, fire alarm, plumbing, mechanical, and structural designers.

Letter of Supervision Provided Yes ___ No ___

2.1 Special Inspections - IBC Section 1704

Building Permit Requirements: The permit applicant shall submit a statement of Special Inspections prepared by the Registered Design Professional in charge and in accordance with IBC Section 107.1.

If no, explain: NA

2.2 STATEMENT OF SPECIAL INSPECTIONS

PROJECT NAME:
PROJECT ADDRESS:
PERMIT NUMBER:
PERMIT APPLICANT:
PERMIT APPLICANT ADDRESS:
OWNER:
OWNER ADDRESS:
REGISTERED DESIGN PROFESSIONALS:
ARCHITECT:
GEOTECHNICAL ENGINEER:
STRUCTURAL ENGINEER:
MECHANICAL ENGINEER:
ELECTRICAL ENGINEER:

A Statement of Special Inspections shall be submitted as a condition for the issuance of a permit in accordance with the International Building Code, Chapter 17, The Statement of Special Inspections shall include a Schedule of Special Inspections for the above-referenced project, as well as identify the individuals, agencies, or firms intended to be retained for conducting the Special Inspections.

Owner's Signature Date

Building Official Signature Date

2.3 SCHEDULE OF SPECIAL INSPECTIONS

SPECIAL INSPECTIONS SCHEDULE table with columns: CODE SECTION, SPECIAL INSPECTOR, INSPECTION, REQUIRED YES/NO, FREQUENCY OF INSPECTION CONTINUOUS/PERIODIC. Lists inspections for steel construction, concrete, masonry, soils, foundations, seismic resistance, fire resistant coatings, fire resistant joints, and smoke control.

3. GENERAL CODE DATA

3.1 Building and Fire Codes used in design (Check all that apply)
[X] 2018 International Building Code
[X] 2018 International Plumbing Code
[X] 2017 National Electrical Code
[X] 2018 International Mechanical Code
[X] 2018 International Fire Code
[X] 2018 International Residential Code
[X] 2018 International Energy Conservation Code
[X] ASHRAE 90.1 - 2013 (Latest Edition Code Adopted by State of Alabama)

3.2 Construction Description
[X] New Construction
Renovation (Existing Bldg) ___
Tenant Build-out ___
Alteration ___
Addition ___
Change of Occupancy ___
Scope of Work - Building: CONSTRUCTION OF NEW RESTROOMS. THE NEW BUILDING IS TO BE CONSTRUCTED ON AN ELEVATED STRUCTURAL SLAB W/ CMU WITH A WOOD TRUSS ROOF STRUCTURE WITH AN ASPHALT SHINGLE ROOF.

3.3 Existing Buildings N/A
The building will remain in operation during construction ___ Yes ___ No
If yes, add provisions for rigid safety barriers and dust barriers to protect the public during construction in accordance with the applicable provisions of IBC Chapter 33. Yellow safety tape not acceptable.

3.4 Renovations N/A
Is the work in this building or space a change of occupancy? ___ Yes ___ No
3.5 Historic buildings N/A
This building is a Historic Building ___ Yes ___ No

3.6 Compliance Alternatives- (IBC Section 3412) N/A
Provide building evaluations when existing building does not meet current codes and renovations will not meet all requirements of current building code. Provide evaluation of existing building and a second evaluation reflecting those design features chosen by the Architect/Engineer to give the building a positive score for fire safety, means of egress, and general safety. Call Chief Building Inspector if you are not sure whether evaluation is required or not. Include Summary sheet (Tables in 3412) on drawings including applicable calculations.

4. BUILDING DATA
Construction Type: IA ___ IB ___ IIA ___ IIB ___ IIC ___ IIA ___ IIB ___ IIC ___ IIA ___ IIB ___ IIC ___
Mixed construction ___ No ___ Yes
Sprinklers ___ No ___ Yes
System Type: 13 ___ 13R ___ 13D ___
Standpipes ___ No ___ Yes ___ Wet ___ Dry Class ___ Combined ___
Building Height: 20 Feet ___ Number of Stories: 1 ___ Unlimited (IBC 507) ___
Mezzanine: ___ No ___ Yes
High Rise: ___ No ___ Yes
Atrium: ___ No ___ Yes
Basement: ___ No ___ Yes

5. OCCUPANCY CLASSIFICATION
___ Assembly 303 ___ A-1 ___ A-2 ___ A-3 ___ A-4 ___ A-5 ___ A-6
___ Business 304
___ Education 305
___ Factory Industrial 306 ___ F-1 ___ F-2 ___ F-3
___ High-Hazard 307 ___ H-1 ___ H-2 ___ H-3 ___ H-4 ___ H-5
___ Institutional 308 ___ I-1 ___ I-2 ___ I-3 ___ I-4 ___ I-5
___ Mercantile 309
___ Residential 310 ___ R-1 ___ R-2 ___ R-3 ___ R-4 ___ R-5
___ Storage 311 ___ S-1 ___ S-2 ___ High-piled ___
___ Utility and Miscellaneous 312
___ Parking Garage 406.2 ___ Open 406.3 ___ Enclosed 406.4 ___ Repair 406.6

5.1 Occupant Load
Occupant Load/Occupancy Type = BUSINESS Total 6
Note: Include occupant load calculations for the following types of projects: assembly, educational, institutional, large complex projects, mixed occupancies, multi-story projects.

5.2 Special Occupancy: 406 and 508 N/A
___ Parking Garage 406.2 ___ Open 406.3 ___ Enclosed 406.4 ___ Repair 406.6
___ S-2 Enclosed Parking Garage w/ S-2 open parking above 510.3
___ Parking Beneath R 510.4 ___ R-1 ___ R-2 Construction Type ___ IIA ___ IIB ___ IIC ___ IIA ___ IIB ___ IIC ___
___ Open parking beneath A, I, B, M and R 510.7
___ S-2 enclosed parking with A, B, M or R

5.3 Mixed Occupancy ___ No ___ Yes Separation ___ Hr
Exception: Identify whether you are using the provisions of Non-Separated Uses or Separated Uses by placing an 'X' below your design choice.
N/A Non-Separated Mixed Occupancy (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.

6. ALLOWABLE BUILDING AREAS AND HEIGHTS (TABLE 503)
6.1 Allowable Area
Allowable area: 3,300 Sq. Ft. Actual area: 875 Sq. Ft.
Attach area increase calculations per Section 506, if applicable. For unlimited areas, provide applicable paragraph number in Section 507 N/A.
6.2 Allowable Height
Allowable height: 30 Ft. Actual building height: 20 Ft.
Allowable no. of stories: TWO Actual no. of stories: ONE

7. FIRE PROTECTION REQUIREMENTS
7.1 Building Element Req'd Rating UL No.*
Structural frame, columns, girders, trusses 0 0
Bearing Walls Exterior 0 0
Bearing Walls Interior 0 0
Non-bearing walls and partitions Exterior 0 0
Non-bearing walls and partitions Interior 0 0
Floor Construction: supporting beams and joists 0 0
Roof construction (including supporting beams and joists) 0 0
Sprinkler Systems ___ Yes ___ No ___ Partial
Sprinkler Type: NA ___ 13 ___ 13R ___ 13D ___
Standpipes: ___ No ___ Yes ___ Wet ___ Dry Class ___
Fire/Smoke Alarm: ___ No ___ Yes ___ No

7.2 Fire Rated Elements
Fire Element Required UL* Hourly Rating Number
Interior Walls: Bearing 0, Non-bearing 0, Ceiling-Floors 0, Beams 0, Columns 0, Ceiling-Roofs 0, Shafts-Exit 0, Shafts-Other 0, Corridor Separation 0, Occupancy Separation 0, Party/Fire Wall Separation 0, Smoke Barrier Separation 0, Tenant Separations 0.
* Or other approved agencies

7.3 Draftstopping N/A
Draftstopping in floor (718.3) ___ Yes ___ No
Draftstopping in attic (718.4) ___ Yes ___ No

7.4 Distance to Property Line from Exterior Wall (Table 602)
(Site Plan/Reference Plan required)
Fire Separation Distance ___ Ft Fire Resistance Rating ___ Hrs

7.5 Life Safety Systems
Emergency Lighting: ___ No ___ X ___ Yes
Exit Signs: ___ No ___ X ___ Yes
Fire Alarms: ___ No ___ X ___ Yes
Smoke Detection Systems: ___ No ___ X ___ Yes

8. EXIT REQUIREMENTS
8.1 Exit Access
No. of exits required: 2
No. of exits furnished: 2
8.2 Means of egress width (1005)
Units of Exit required: 12 inches
Units of Exit furnished: 64 inches
Stair width units required: 36 inches
Stair width units provided: 50 inches

8.3 Diagonal Rule (1015.1)
Meets 1015.2.1 ___ X ___ Yes ___ No

8.4 Travel Distance (Table 1016.1)
Allowable Travel Distance: 200 Ft
Actual Travel Distance (Maximum): 60 Ft

8.5 Spaces with one means of egress (1015) N/A
For buildings with one means of egress, I have checked the occupant load and the common path of travel against the requirements of IBC 1015. ___ Yes ___ No.

9. LIFE SAFETY PLAN
Provided ___ Yes ___ X ___ No (If yes, Drawing No.)

10. ACCESSIBILITY (Chapter 11)
Design conforms to IBC Chapter 11 ICC A117-1-2009 ___ X ___ Yes ___ No
If no, explain condition that will not allow building to be accessible.

10.1 ACCESSIBLE PARKING
Total Parking Spaces: ___
Total Accessible Parking Spaces: ___
Total Accessible Van Parking: ___

11. DESIGN LOADS
Ultimate Design Wind Speed Maps in accordance with 11609 Or ASCE 7-10
Risk Cat. I -150 mph ___ X ___ Risk Cat. II -160 mph ___ Risk Cat III & IV -170 mph ___
Classification of Building Category/Use Group: ___ (I, II, III, IV)
Live Load Roof: 20 PSF
Attic: NA PSF
Mezzanine: 0 PSF
Floor: 80 PSF
Exposure: C
Internal Pressure Coefficient +/- 0.18
Components & Cladding PER ASCE 7-10, FIG. 30.5-1
Building will be designed as ___ Enclosed building ___ Unenclosed Building
Wind Borne Debris Region (1609.1.2) ___
This building will use impact resistant glass per 1609.1.2 ___ Yes ___ X ___ No
This building will use wood structural panels per exception 1609.1.2 ___ Yes ___ X ___ No
This building will use shutters ___ Yes ___ X ___ No
Load-Bearing Values of Soils (1610)
Allowable soil bearing: 1500 pounds / sq. ft.
Soil Report: ___ Yes ___ X ___ No
Earthquake Design (1613)
Seismic Design Load Controls ___ Yes ___ X ___ No
If seismic design controls, furnish data required in 1603.1.5.

12. SPECIAL DETAILED REQUIREMENTS N/A
I have reviewed the special detail requirements in Chapter 4 as indicated below and incorporated the provisions into my design.
REQUIREMENT APPLICABLE (Yes or N/A)
402 Covered Mail building ___ N/A ___
403 High rise buildings ___ N/A ___
404 Atriums ___ N/A ___
405 Under Ground buildings ___ N/A ___
406 Motor-vehicle Related Occupancies ___ N/A ___
407 Group I-2 ___ N/A ___
408 Group I-3 ___ N/A ___
409 Motion Picture Projection Rooms ___ N/A ___
410 Stages & Platforms ___ N/A ___
411 Special Amusement Buildings ___ N/A ___
412 Aircraft Related Occupancies ___ N/A ___
413 Combustible Storage ___ N/A ___
414 Hazardous Materials ___ N/A ___
415 Groups H-1, H-2, H-3, H-4, & H-5 ___ N/A ___
416 Application of flammable finishes ___ N/A ___
417 Drying Rooms ___ N/A ___
418 Organic Coatings ___ N/A ___

13. FLOOD REQUIREMENTS (IBC 1612) N/A
All projects located in a Special Flood Hazard Area shall comply with the City of Mobile Storm Water Management and Flood Control Ordinance.
13.1 Special Flood Hazard Area ___ Yes ___ No ___
13.2 Flood Zone
Base Flood Elevation (BFE) ___
Minimum Finish Floor Elevation (MFFE) ___
13.3 Flood proofing Requirements ___ Yes ___ No ___
13.4 Flood Proofing Certificate provided ___ Yes ___ No ___
13.5 Flood Proofing Plan included ___ Yes ___ No ___

13. FLOOD REQUIREMENTS (IBC 1612) CONT.
13.6 Flood Openings Requirements
___ Yes ___ No
Total area of flood openings: 3.6 S.F.
No. of flood openings: 4
13.7 Comments

*14. QUALITY ASSURANCE FOR WIND REQUIREMENTS (IBC 1705.10)
I have reviewed the requirements of IBC Section 1705 and my design incorporates the requirements of this Section of the Code and is reflected on the drawings and in the specifications.
___ Yes ___ No
I have notified the Contractor of his responsibility under Section 1704.
Contractor's Signature:
At time of permitting

15. SAFETY GLAZING FOR HAZARDOUS LOCATION N/A
I have identified on drawings where tempered glass is required in hazardous locations. (2406.3)
___ Yes ___ No
16. PREFABRICATED METAL BUILDINGS N/A
Requirements for metal building erection drawings included on drawings ___

17. PRE-ENGINEERED TRUSSES SEE STRUCTURAL
Live Loads shown:
Wind Loads shown:
Certification from manufacturer (Sealed)

18. FIRE DEPARTMENT REQUIREMENTS
18.1 Required water supply ___ gpm @ 20 psi (per Architect/Engineer)
(The Insurance Service Office (ISO) method, the Iowa State University (ISU) Method, the Illinois Institute of Technology (IIT) Research Institute Method, or the 2012 International Fire Code.
18.2 Hydraulic calculations for fire hydrant systems shall be submitted to the Fire Department for review and approval prior to construction.
___ Yes ___ X ___ No
18.3 Timing of Installation, Fire apparatus access roads and a water supply for fire protection shall be installed and made serviceable prior to and during the time of construction.
___ Yes ___ X ___ No
18.4 Knox Key Box is required for all commercial occupancies with fire alarm and fire protection systems and all commercial occupancies requiring a certificate of occupancy inspection.
___ X ___ Yes ___ No ___

19. ENERGY CODE REQUIREMENTS
19.1 Energy Requirements
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design versus annual energy cost for the proposed design.
19.2 Climate Zone: 2 - Dauphin Island, Alabama N/A
19.3 Method of Compliance:
Prescriptive (International Energy Conservation Code - (Latest edition adopted by State) ___
Building Envelope Requirements ___
Building Mechanical Systems ___
Service Water Heating ___
Electrical Power & Lighting System ___
Prescriptive (ASHRAE 90.1) ___
UA Trade-Off (need signed COMcheck calculations or other approved software) ___
Performance (International Energy Conservation Code) ___
Performance (ASHRAE 90.1) ___

20. ELECTRICAL CODE REQUIREMENTS
20.1 Electrical Work ___ X ___ Yes ___ No
(If no, submit a Letter of Supervision indicating electrical is not included in scope of work.)
20.2 Riser Diagram included ___ X ___ Yes ___ No
20.3 Panel Schedules ___ X ___ Yes ___ No
20.4 Light Fixture Schedule ___ X ___ Yes ___ No
20.5 Service Location ___ X ___ Yes ___ No
20.6 Panel Location ___ X ___ Yes ___ No

21. MECHANICAL CODE REQUIREMENTS N/A
21.1 Provide complete floor plan of mechanical layout (ductwork, a/c units, air-handlers, etc.) ___ Yes ___ No ___
21.2 Manufacturer's specifications. ___ Yes ___ No ___
21.3 HVAC equipment schedules. ___ Yes ___ No ___
21.4 HVAC clearances. ___ Yes ___ No ___
21.5 EER ratings for cooling capacity. ___ Yes ___ No ___
21.6 Permanent roof access location, (if required) ___ Yes ___ No ___
21.7 Outside air ventilation calculations, (ASHRAE 62-2012) ___ Yes ___ No ___
21.8 Verify rated walls/ceilings with in building. ___ Yes ___ No ___
21.9 Printout of heating and cooling load calculations, (manual J) ___ Yes ___ No ___
21.10 Dryer vent length and location, (if applicable) ___ Yes ___ No ___

22. RESTAURANTS/BUILDINGS USING COOKING EQUIPMENT
22.1 Kitchen equipment schedule. ___ Yes ___ No ___
22.2 Ventilation calculations shown on drawings. ___ Yes ___ No ___
22.3 Cooking and ventilation equipment specifications. ___ Yes ___ No ___
22.4 Exhaust outlet discharge clearances. ___ Yes ___ No ___
22.5 Hood clearances from combustibles. ___ Yes ___ No ___
22.6 Exhaust duct materials and construction type. ___ Yes ___ No ___
22.7 Exhaust duct layout diagram shown. ___ Yes ___ No ___

23. PLUMBING REQUIREMENTS
23.1 Plumbing Work ___ X ___ Yes ___ No
(If no, submit a Letter of Supervision indicating plumbing is not included in scope of work.)
23.2 Riser Diagram included ___ X ___ Yes ___ No
23.3 Fixture Schedule included ___ X ___ Yes ___ No
23.4 Public Sewer ___ X ___ Yes ___ No

23.5 Total Number of Required Fixtures:

IBC TABLE 2002.1 TOTAL NUMBER OF REQUIRED FIXTURES table with columns: OCCUPANCY, OCCUPANT LOAD, WATER CLOSETS, LAVATORIES, DRINKING FOUNTAIN, SERVICE SINK, MISC. Rows for REQUIRED, TOTAL/REQUIRED, TOTAL/PROVIDED.

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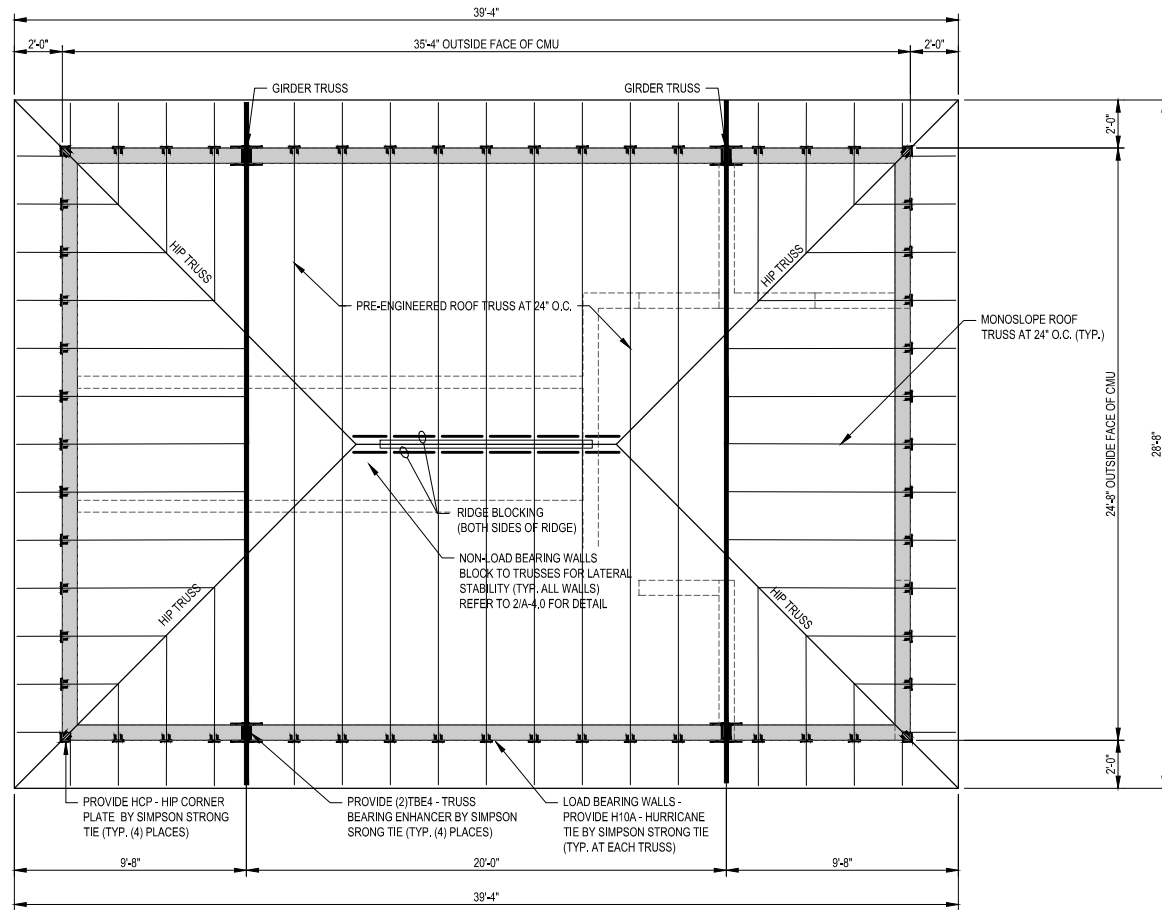
NEW RESTROOMS FOR TOWN OF DAUPHIN ISLAND 661 BIENVILLE BLVD., DAUPHIN ISLAND, AL 36528

3/22/2024 MER OWNER REQUESTED CHANGES DESCRIPTION REVISION LOG REV. DATE BY

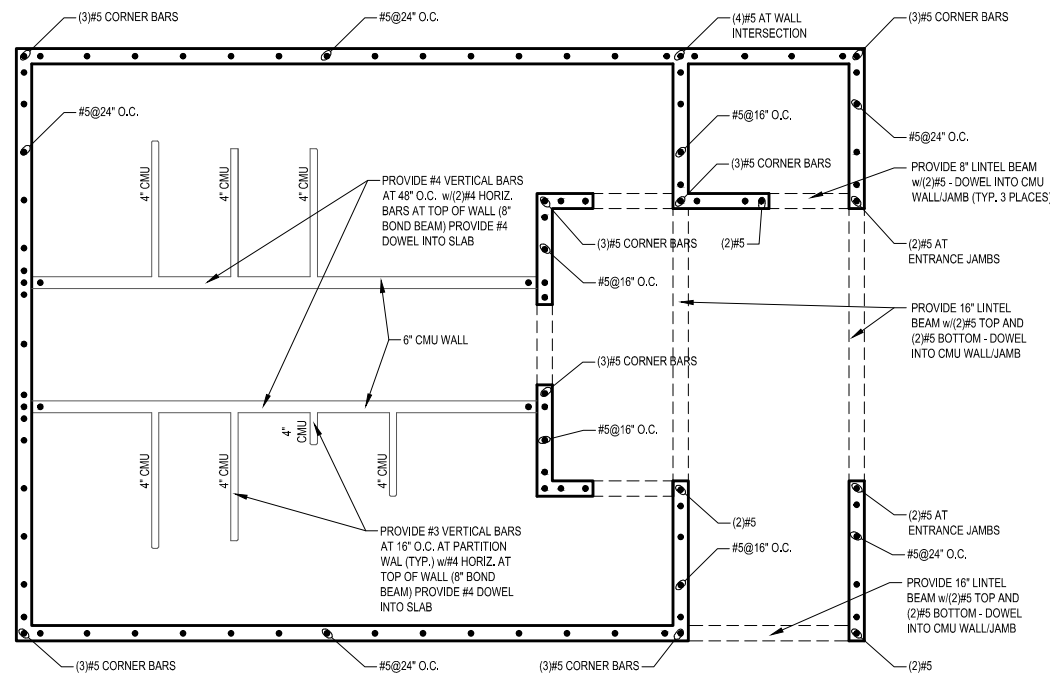
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SHEET TITLE: BUILDING CODE SUMMARY SHEET NUMBER: G-2.0

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



WALL REINFORCING PLAN
SCALE: 1/4"=1'-0" AT FINISHED FLOOR ELEVATION

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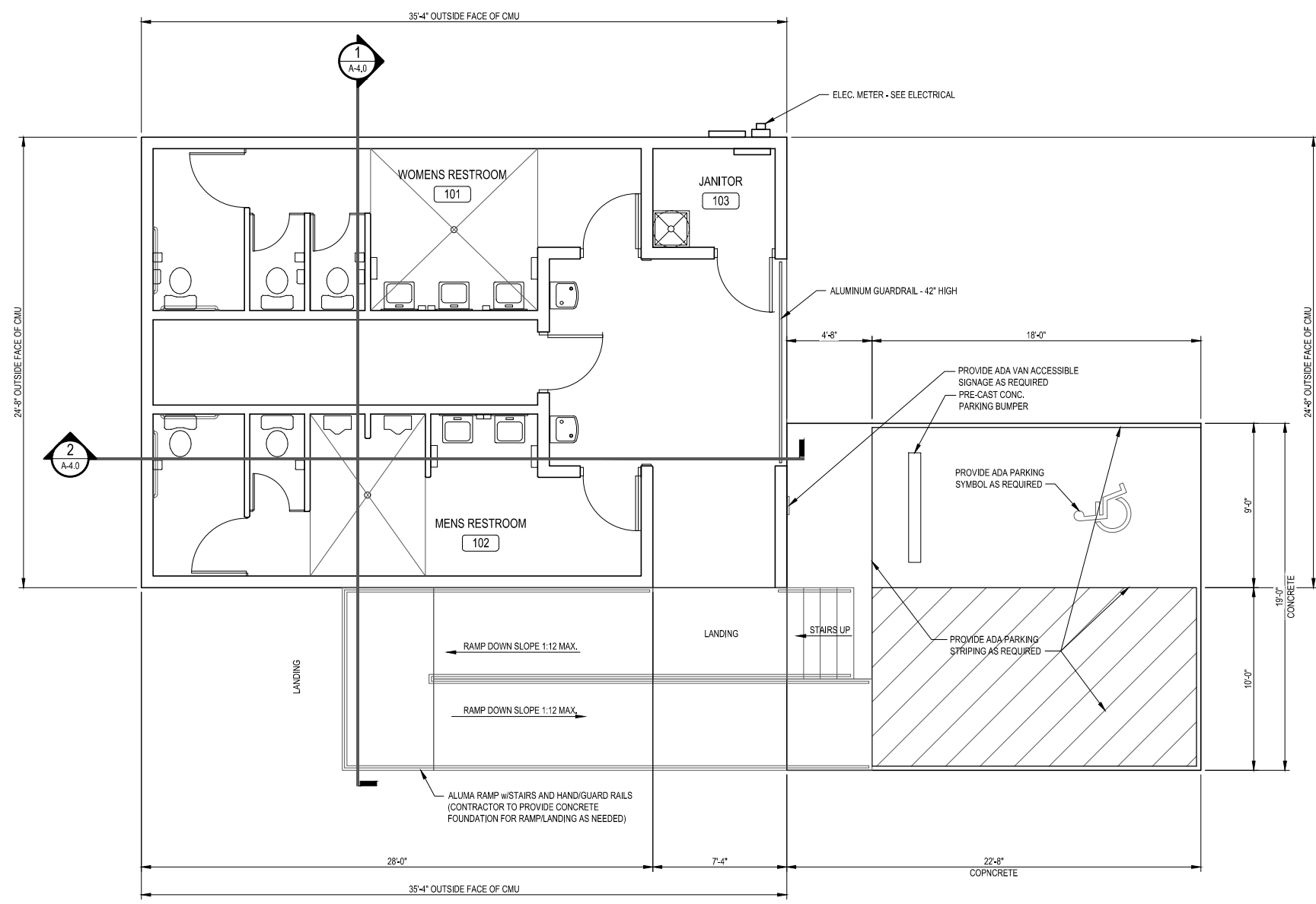
REV.	DATE	BY	DESCRIPTION
1	3/22/2024	EJA	OWNER REQUESTED CHANGES
REVISION LOG			

PROJECT NUMBER:	2143-02
DRAWN BY:	RAD
CHECKED BY:	EJA
ISSUE DATE:	4/1/2024

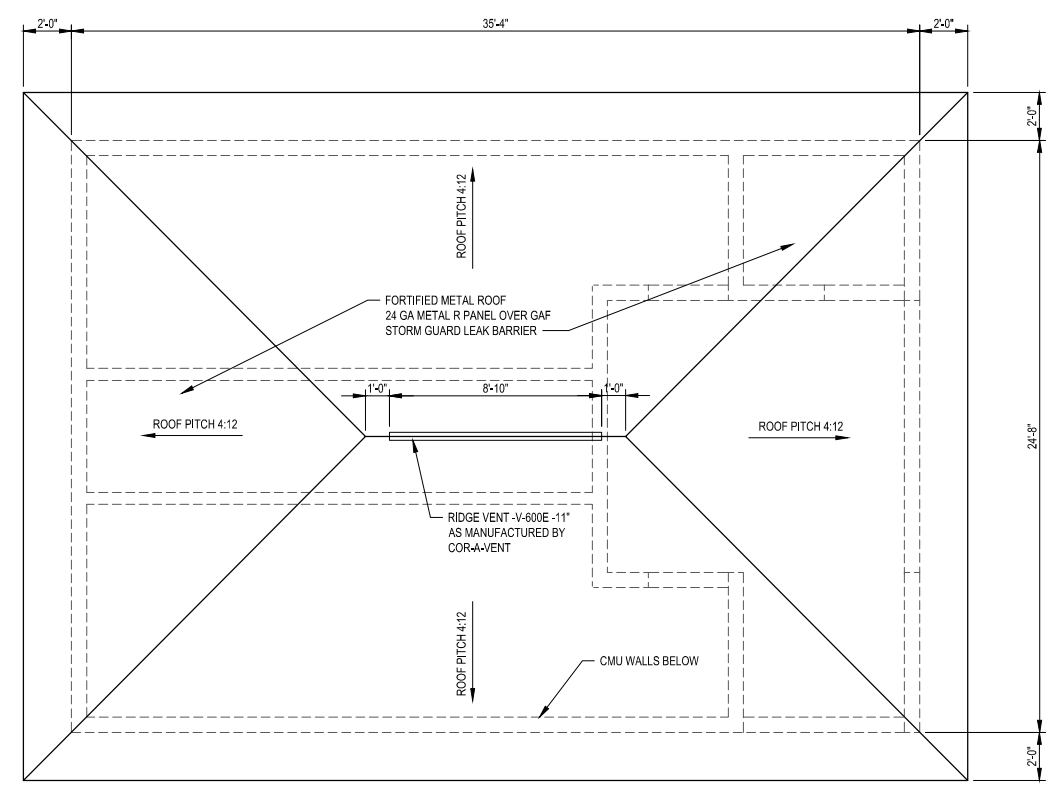


SHEET TITLE:
**WALL REINFORCING PLAN
ROOF FRAMING PLAN**

SHEET NUMBER:
S-1.1



FLOOR PLAN
SCALE: 1/4"=1'-0"
NOTE:
SEE A-3.0 FOR ENLARGED PLAN



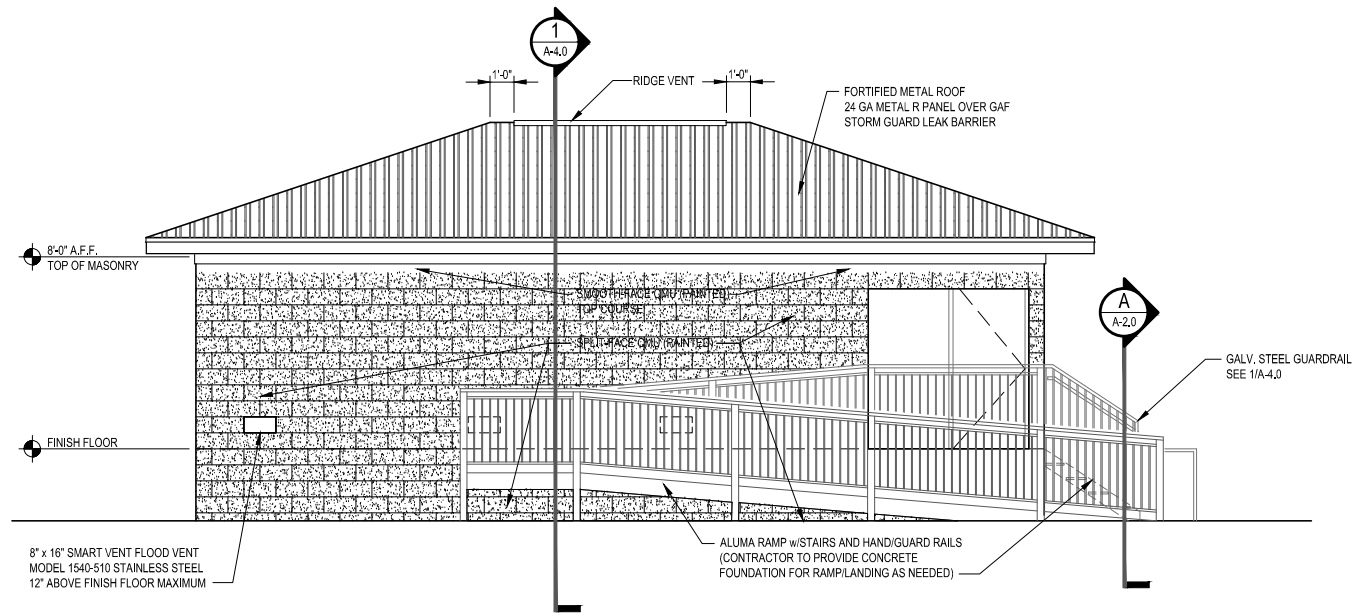
ROOF PLAN
SCALE: 1/4"=1'-0"

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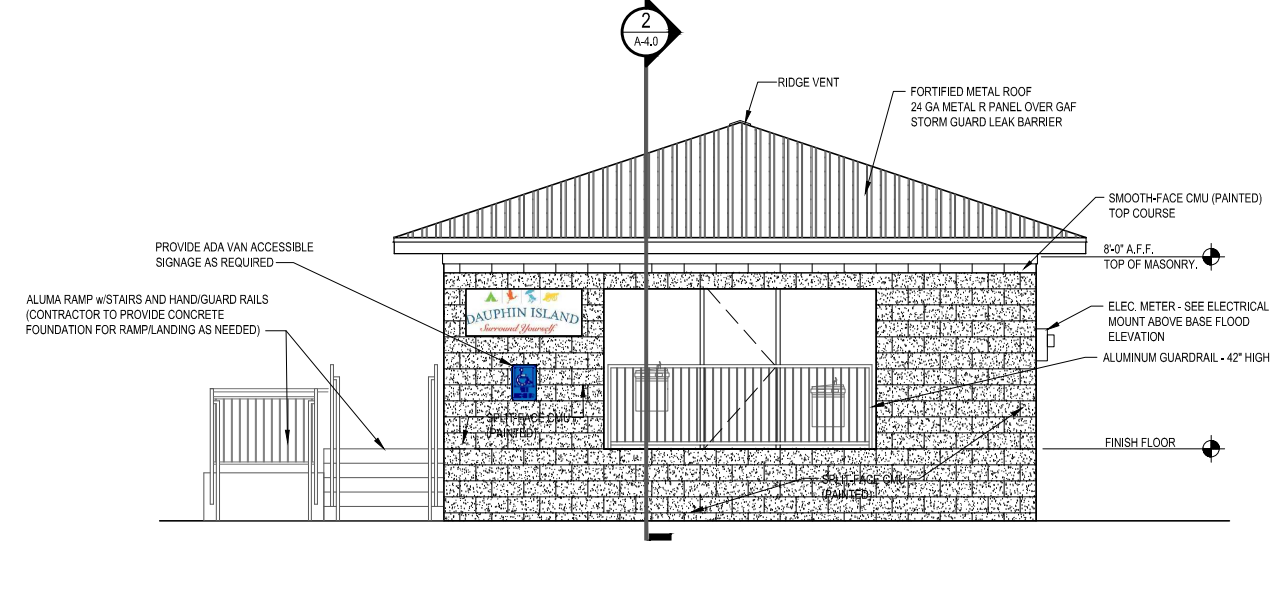
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1	3/22/2024	MER	OWNER REQUESTED CHANGES
			REVISION LOG

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CHECKED BY:	MER
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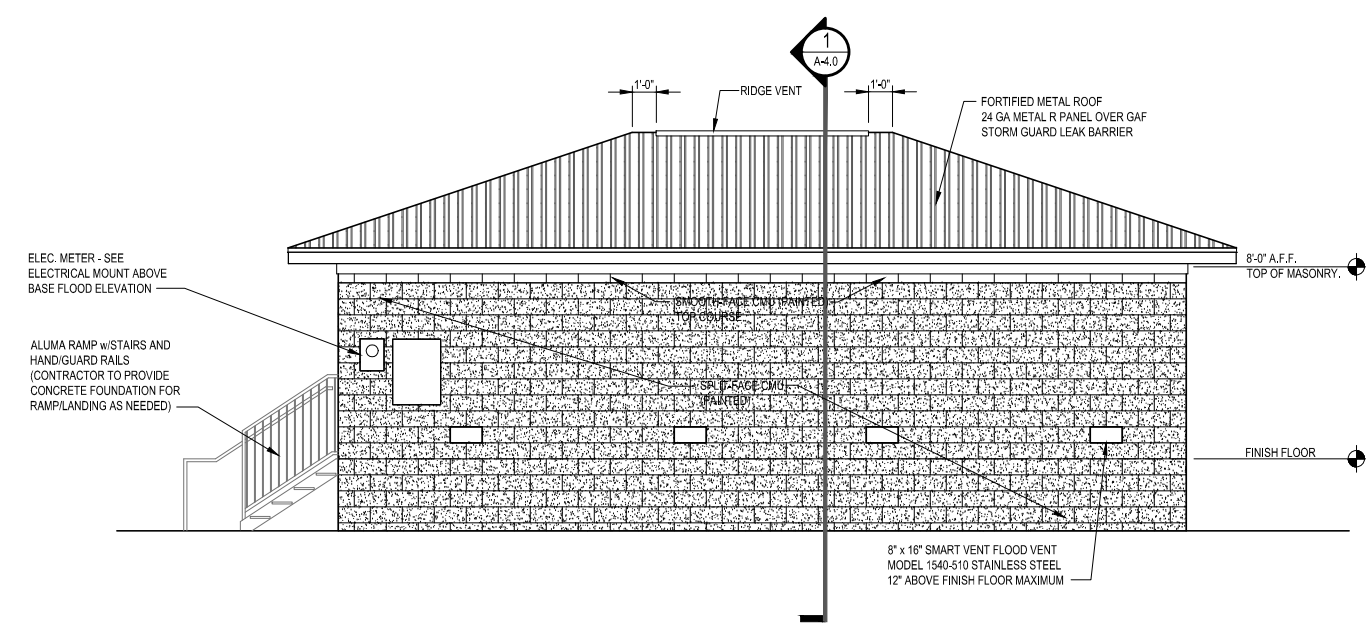




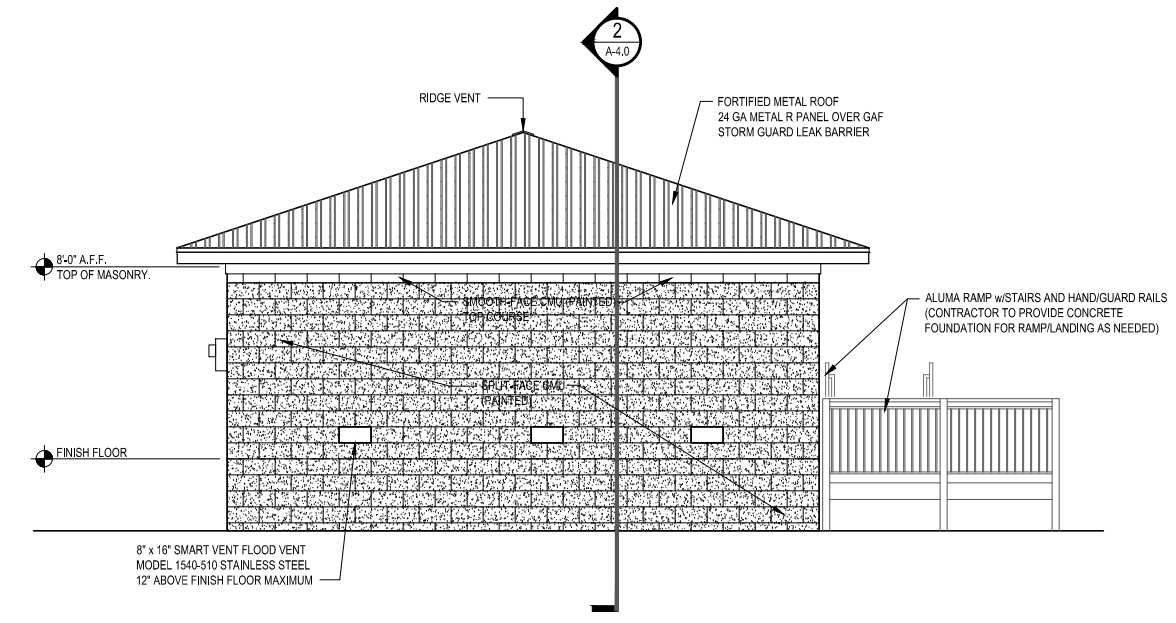
1 SOUTH ELEVATION
SCALE: 1/4"=1'-0"



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



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



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

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NEW RESTROOMS FOR
TOWN OF DAUPHIN ISLAND
661 BIENVILLE BLVD., DAUPHIN ISLAND, AL 36528

REV.	DATE	BY	DESCRIPTION
1	3/22/2024	MER	OWNER REQUESTED CHANGES
2			
3			
4			

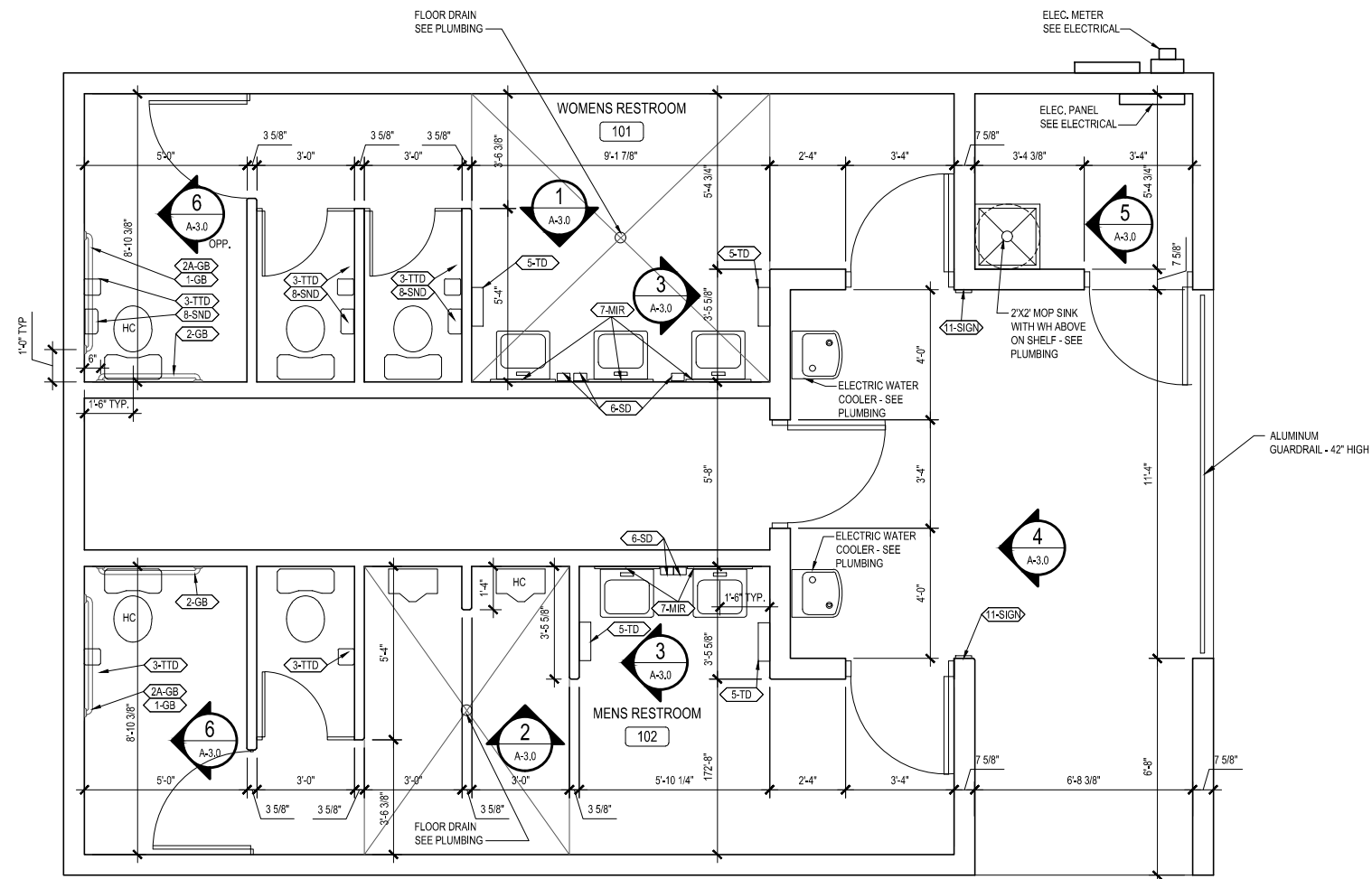
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ISSUE DATE:	4/1/2024



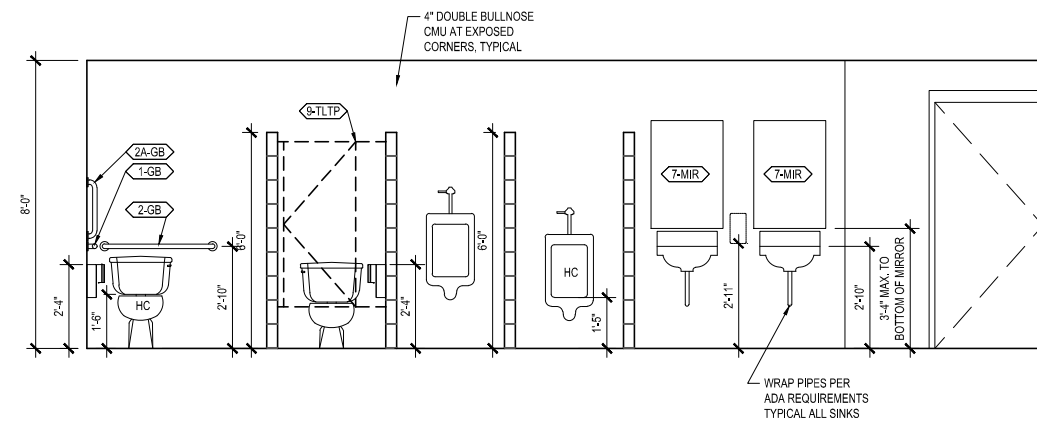
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ELEVATIONS

SHEET NUMBER:
A-2.0

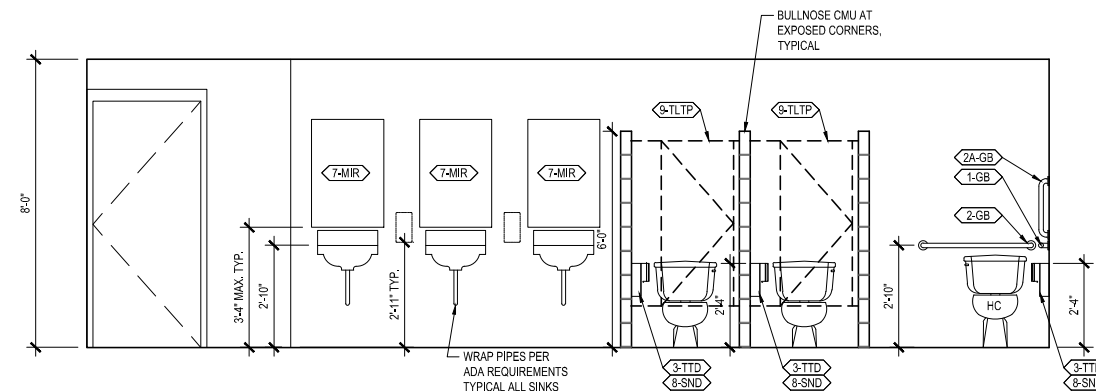
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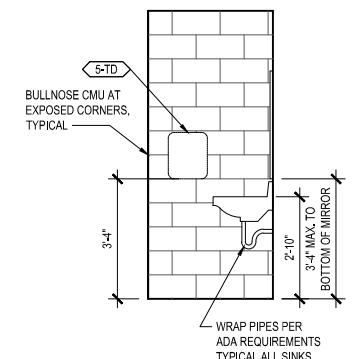
ENLARGED FLOOR PLAN
SCALE: 3/8"=1'-0"



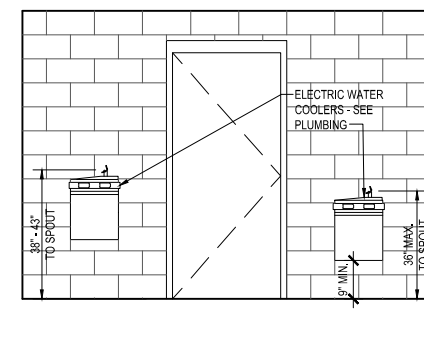
MENS RESTROOM ELEVATION 1
SCALE: 3/8"=1'-0" A-3.0



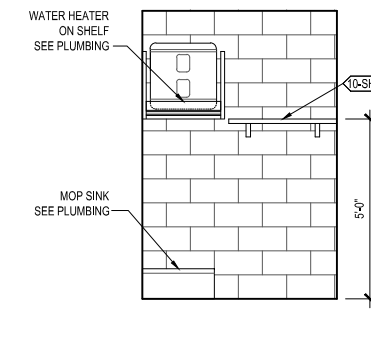
WOMENS RESTROOM ELEVATION 2
SCALE: 3/8"=1'-0" A-3.0



TOWEL DISPENSER 3
SCALE: 3/8"=1'-0" A-3.0



DRINKING FOUNTAINS 4
SCALE: 3/8"=1'-0" A-3.0



JANITOR 5
SCALE: 3/8"=1'-0" A-3.0

TOILET ACCESSORY LEGEND

KEYNOTE	DESCRIPTION	MANUFACTURER	MODEL
1-GB	GRAB BAR 42"	BOBRICK	B-5806.99X42
2-GB	GRAB BAR 36"	BOBRICK	B-5806.99X36
2A-GB	GRAB BAR 18"	BOBRICK	B-5806.99X18
3-TTD	TOILET TISSUE DISPENSER	BOBRICK	B-4288
5-TD	TOWEL DISPENSER	BOBRICK	B-4262
6-SD	SOAP DISPENSER	BOBRICK	B-4112
7-MIR	MIRROR	BOBRICK	B-1651836
8-SND	SANITARY NAPKIN DISPOSAL	BOBRICK	B-270
9-TLTP	TOILET PARTITIONS	BOBRICK	PLASTIC LAMINATE
D-SHLF	MOP SHELF	BOBRICK	B-224X36
1-SIGN	MOP SHELF	BEST SIGN SYSTEMS	6"X8" SIGN @ 5'-0" AFF

CLARK | GEER | LATHAM AND ASSOCIATES, INC.
3901 SPRING HILL AVENUE | MOBILE, AL 36608 | 251-844-7078

NEW RESTROOMS FOR
TOWN OF DAUPHIN ISLAND
661 BIENVILLE BLVD., DAUPHIN ISLAND, AL 36628

REVISION LOG

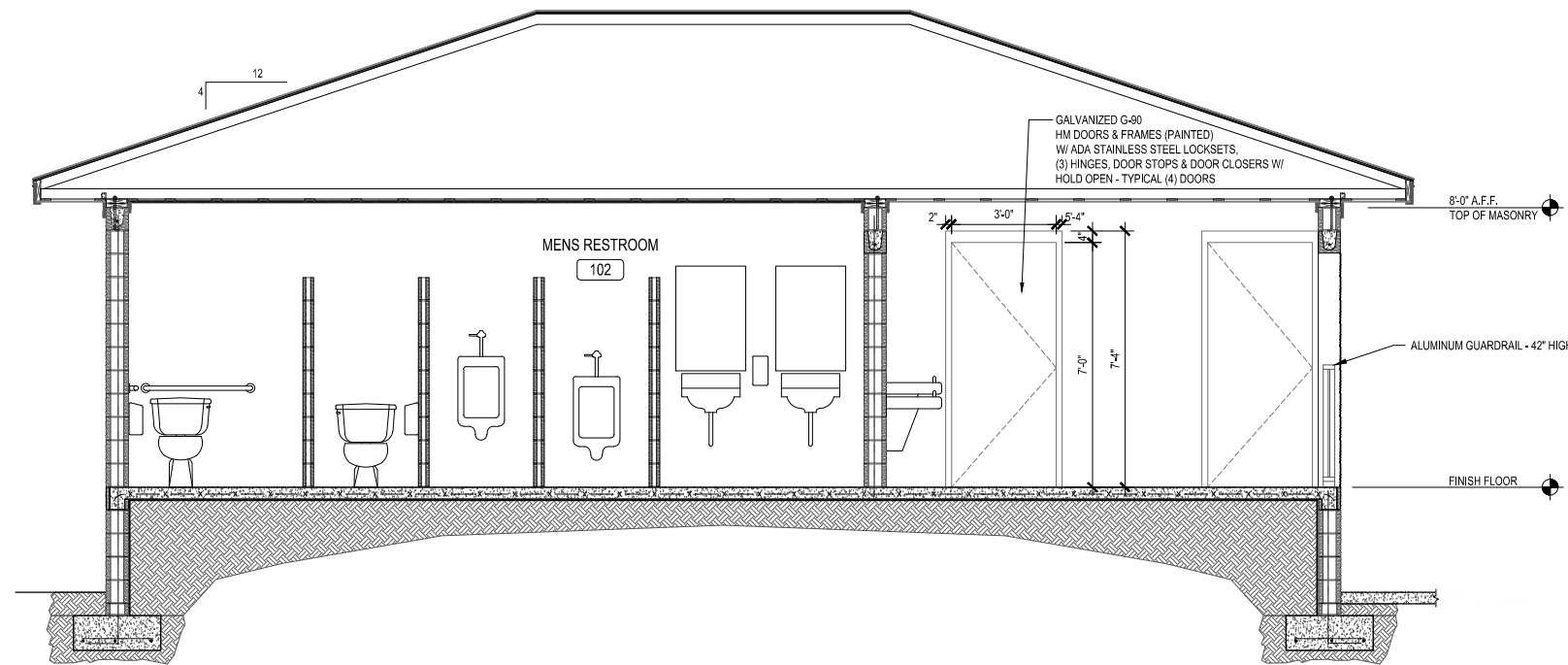
REV.	DATE	BY	DESCRIPTION
1	3/22/2024	MER	OWNER REQUESTED CHANGES

PROJECT NUMBER: 2143-02
DRAWN BY: MER
CHECKED BY: MER
ISSUE DATE: 4/1/2024

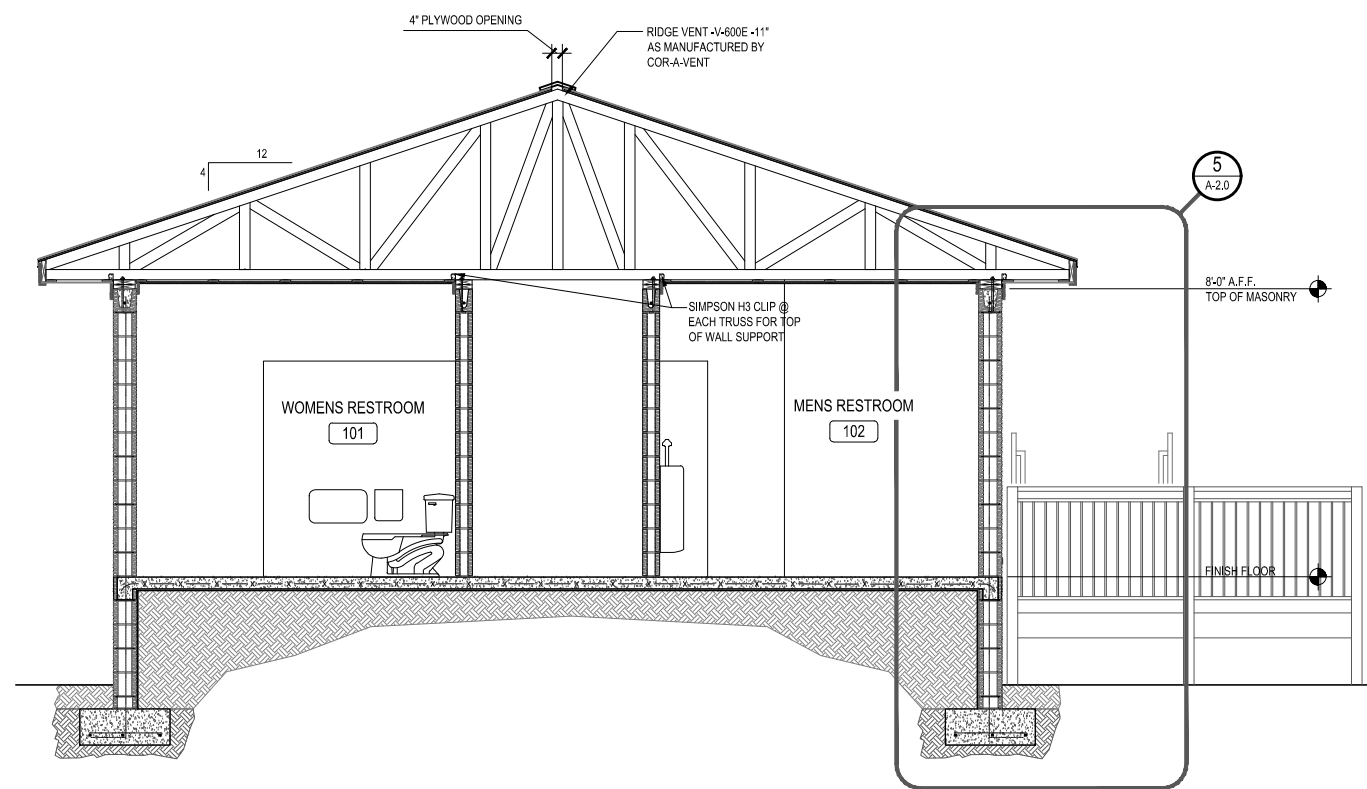
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SHEET TITLE:
ENLARGED TOILET PLAN AND DETAILS

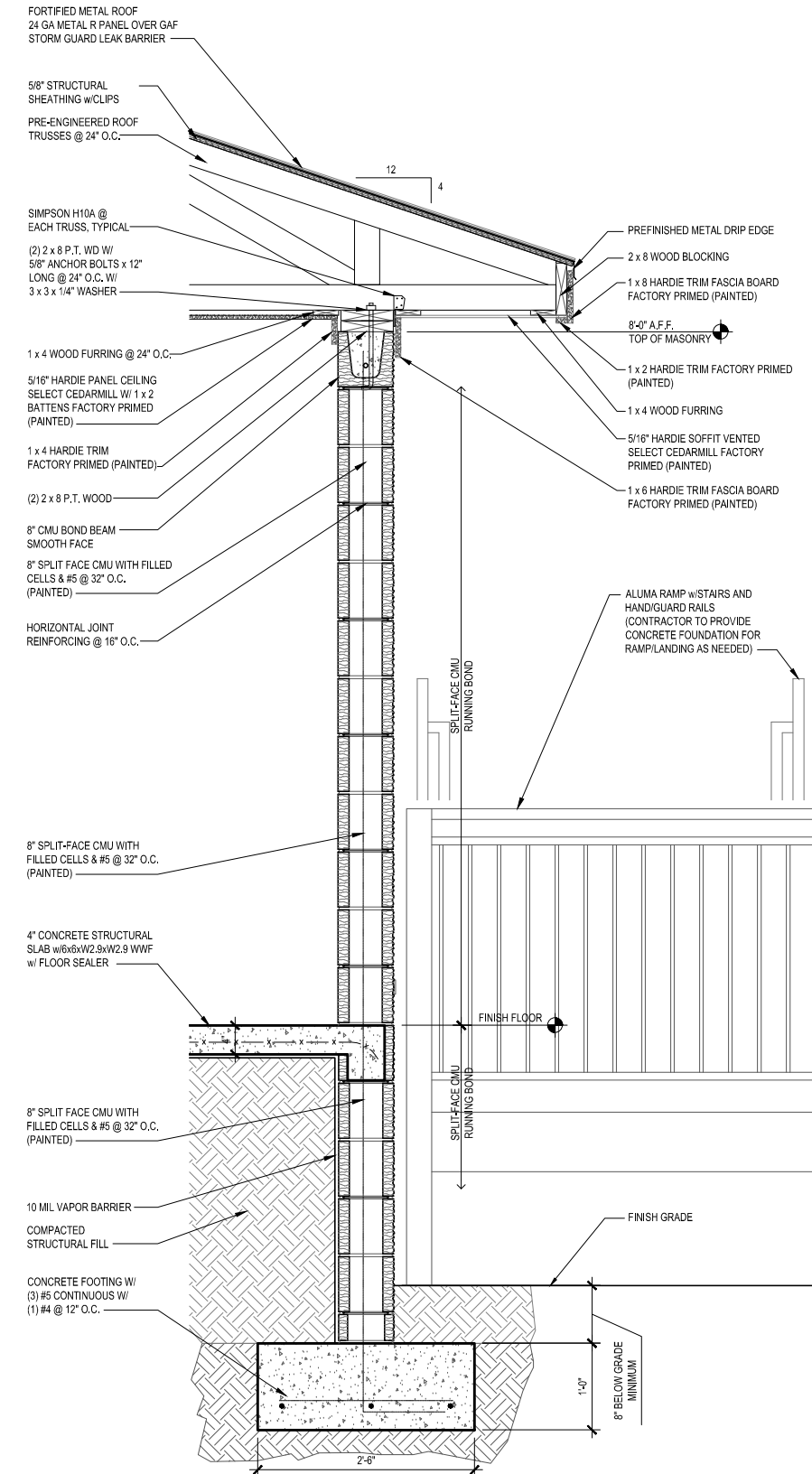
SHEET NUMBER:
A-3.0



1 BUILDING SECTION
A-4.0 SCALE: 3/8"=1'-0"



2 BUILDING SECTION
A-4.0 SCALE: 3/8"=1'-0"



3 WALL SECTION
A-4.0 SCALE: 1"=1'-0"

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REV.	DATE	BY	DESCRIPTION
1	3/22/2024	MER	OWNER REQUESTED CHANGES
2			
3			

PROJECT NUMBER:	2143-02
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GRAVITY VENTILATOR SCHEDULE						
MARK	USE	CFM	THROAT AREA	MAX. PRESSURE DROP (in w.c.)	BASIS OF DESIGN	REMARKS
EAH	EXHAUST AIR EF-1 THRU 3	610	1.0 SF	0.06	GREENHECK FGR 12X12	① ②

- PROVIDE MINIMUM 12" HIGH SLOPED ROOF CURB. ROOF CURB SHALL BE PROVIDED WITH MINIMUM 5" FLANGE. PROVIDE TIE-DOWN POINTS. COORDINATE SLOPE AND TYPE OF ROOF WITH ARCHITECTURAL DRAWINGS. GRAVITY VENTILATOR AND ASSOCIATED ROOF CURB SHALL BE INSTALLED IN COMPLIANCE WITH WIND LOAD REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE. PROVIDE SUBMITTAL INDICATING MANUFACTURER REQUIREMENTS FOR ATTACHMENT.
- PROVIDE WITH INTEGRAL BIRDSCREEN.

AIR DISTRIBUTION DEVICE SCHEDULE										
MARK	TYPE	USE	MOUNTING TYPE	MATERIAL TYPE	PANEL SIZE	NECK SIZE	MAX NC	DAMPER REQUIRED	BASIS OF DESIGN	REMARKS
A	3/4" BLADE SPACING-45° DEFLECTION GRILLE		SURFACE	STAINLESS	18X18	18X18	25	NO	TITUS 350RL-SS	③
B	3/4" BLADE SPACING-45° DEFLECTION GRILLE		SURFACE	STAINLESS	12X12	12X12	25	NO	TITUS 350RL-SS	③
C	3/4" BLADE SPACING-45° DEFLECTION GRILLE		SURFACE	STAINLESS	8X8	8X8	25	NO	TITUS 350RL-SS	③

AIR DISTRIBUTION DEVICE NOTES:

- S=SUPPLY; R=RETURN; E=EXHAUST; T=TRANSFER
- PROVIDE OPPOSED BLADE DAMPER AT DIFFUSER NECK OPERABLE FROM FACE OF DIFFUSER.

FAN SCHEDULE										
MARK	FAN TYPE	CFM	E.S.P. IN W.C.	MOTOR DATA		DAMPER SIZE	REMARKS	CONTROL SEQUENCE	BASIS OF DESIGN	REMARKS
				WATTS	VOLTS/Ø					
EF-1	CEF	280	0.3	135	115/1	③	④	A	GREENHECK SP-A390	
EF-2	CEF	280	0.3	135	115/1	③	④	A	GREENHECK SP-A390	
EF-3	CEF	50	0.3	11	115/1	③	④	A	GREENHECK SP-A90	

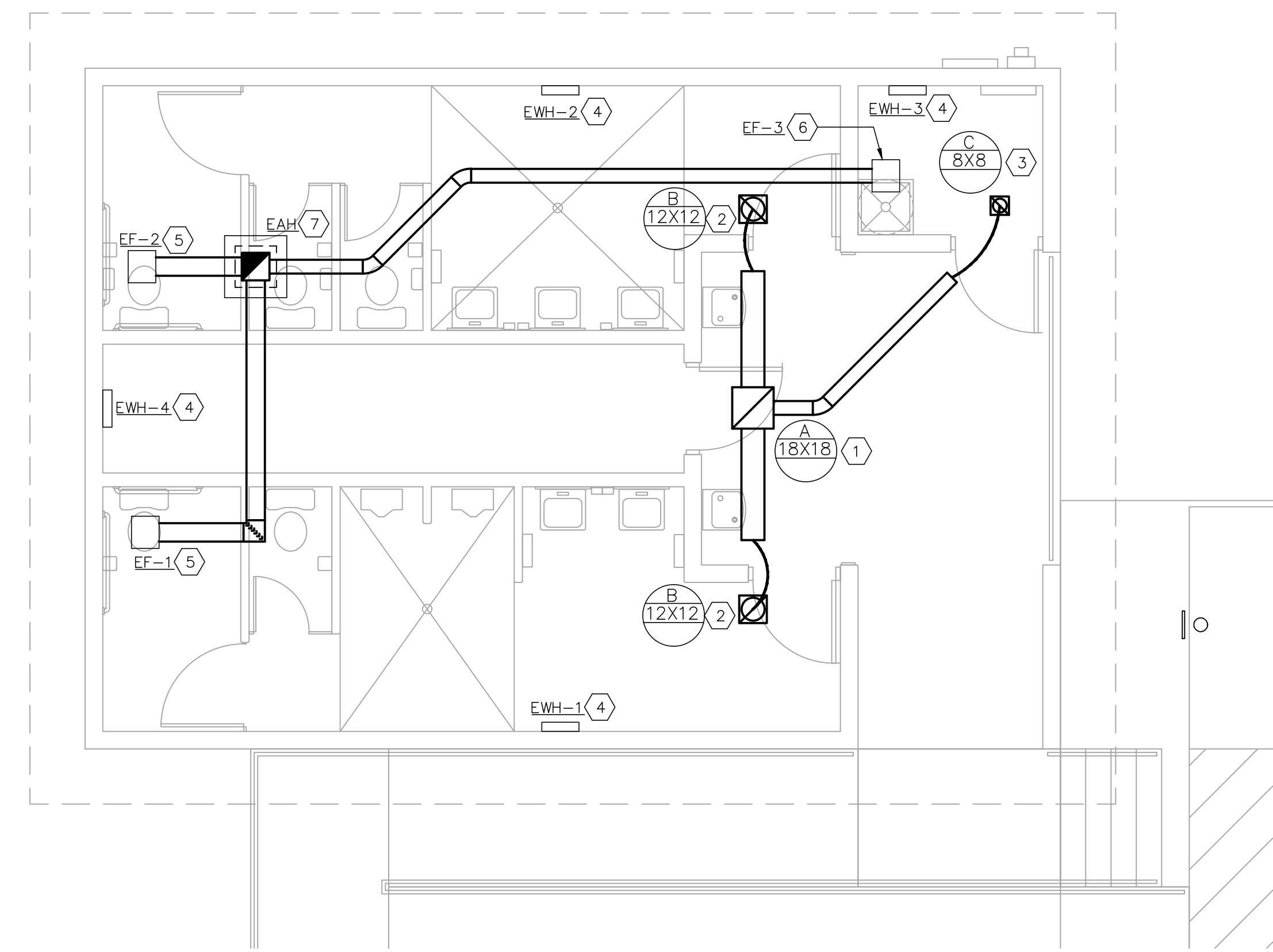
- CEF-CEILING EXHAUST FAN
- PROVIDE GREENHECK MODEL SPECIFIED OR EQUIVALENT BY TWIN CITY, PENN OR COOK.
- BACKDRAFT DAMPER PROVIDED AS PART OF FAN PACKAGE.
- PROVIDE GRILLE WITH WHITE ENAMEL FINISH AND BACKDRAFT DAMPER. EXTERNAL STATIC PRESSURE LOSS INCLUDES LOSS THRU GRILLE AND BACKDRAFT DAMPER. PROVIDE SOLID STATE SPEED CONTROLLER. PROVIDE INTERNAL PLUG-IN DISCONNECT. PROVIDE FLEXIBLE CONNECTION AT FAN OUTLET.
- EXHAUST FAN SHALL BE INTERLOCKED WITH LIGHTS IN ROOM SERVED. INTERLOCK BY ELECTRICAL CONTRACTOR.

ELECTRIC WALL HEATER							
MARK	KW	ELECTRICAL DATA			REMARKS	MOUNTING HEIGHT	BASIS OF DESIGN
		VOLTS	PHASE	Hz			
EWH-1	4	240	1	60	① ② ③ ④ ⑤ ⑥	2'-0"	QMARK SERIES AWH
EWH-2	4	240	1	60	① ② ③ ④ ⑤ ⑥	2'-0"	QMARK SERIES AWH
EWH-3	1.8	120	1	60	① ② ③ ④ ⑤ ⑥	2'-0"	QMARK SERIES AWH
EWH-4	1.8	120	1	60	① ② ③ ④ ⑤ ⑥	2'-0"	QMARK SERIES AWH

- ARCHITECTURAL HEAVY DUTY WALL HEATER
- HEATER SHALL BE SURFACE MOUNTED
- PROVIDE 14 GAUGE SECURITY FRONT COVER
- TAMPER RESISTANT INTEGRAL THERMOSTAT TO MAINTAIN ROOM AT 60°F.
- THERMAL HEAT PROTECTOR, INTEGRAL DISCONNECT SWITCH, AND BUILT-IN FAN DELAY
- STEEL BAR GRILLE WITH BAKED ENAMEL FINISH AND SATIN FINISHED ALUMINUM FRAME
- MOUNT BOTTOM OF HEATER AT ELEVATION INDICATED. COORDINATE REQUIREMENTS WITH ELECTRICAL CONTRACTOR.

MECHANICAL LEGEND

- TRANSFER GRILLE
- RECTANGULAR GALVANIZED STEEL DUCTWORK, UNLESS NOTED OTHERWISE. SIZES AS SHOWN ARE CLEAR INSIDE DIMENSIONS: "A"-WIDTH, "B"-DEPTH.
- SQUARE THROAT ELBOW IN RECTANGULAR DUCT WITH DOUBLE WALL TURNING VANES
- DUCTWORK UP THRU ROOF
- LONG RADIUS ELBOW IN ROUND SNAPLOCK DUCT, ADJUSTABLE TYPE.
- FACTORY FABRICATED/INSULATED METALLIC FLEXIBLE ROUND DUCT, SIZE SHOWN IS INSIDE DIAMETER. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 8 FEET.



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

- PROVIDE INSECT SCREEN FOR TRANSFER AIR GRILLE. INSECT SCREEN OPENING SHALL BE LARGER THAN 1/4" BUT NOT GREATER THAN 1/2". PROVIDE PLENUM FULL SIZE OF TRANSFER GRILLE IN ORDER TO ROUTE TRANSFER DUCTS TO TOILETS AND JANITOR CLOSET.
- PROVIDE PLENUM FULL SIZE OF GRILLE FOR CONNECTION BY 10"Ø FLEXIBLE DUCTWORK.
- PROVIDE PLENUM FULL SIZE OF GRILLE FOR CONNECTION BY 6"Ø FLEXIBLE DUCTWORK.
- SURFACE MOUNTED ELECTRIC WALL HEATER INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. REFER TO SCHEDULE FOR MOUNTING HEIGHT.
- CEILING MOUNTED EXHAUST FAN SUSPENDED FROM STRUCTURE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE FLEXIBLE CONNECTION TO UNIT AND ROUTE 8"x8" FROM FAN TO DUCTWORK SERVING EXHAUST AIR HOOD AS INDICATED.
- CEILING MOUNTED EXHAUST FAN SUSPENDED FROM STRUCTURE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE FLEXIBLE CONNECTION TO UNIT AND ROUTE 6"Ø FROM FAN TO DUCTWORK SERVING EXHAUST AIR HOOD AS INDICATED.
- 12"x12" EXHAUST AIR DUCT UP TO GRAVITY VENTILATOR ON ROOF. GRAVITY VENTILATOR AND CURB SHALL BE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS SUCH THAT WIND LOAD REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE ARE MET. SUBMIT ANCHOR DETAIL WITH SUBMITTAL FOR VENTILATOR.

GENERAL NOTES

- MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EQUIPMENT, AS SHOWN ON THESE DRAWINGS, WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, ETC.
- ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. COORDINATE PITCH AND TYPE OF ROOF WITH ARCHITECTURAL DRAWINGS.
- ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM ANY EXHAUST FAN, GAS VENT OR PLUMBING VENT. COORDINATE WITH PLUMBING CONTRACTOR.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ADMINISTERING ALL WARRANTIES ON EQUIPMENT WHICH HE INSTALLS. THIS INCLUDES ALL CONDENSERS, REFRIGERANT LINES, AND OTHER ITEMS FURNISHED BY OTHERS AS WELL AS THOSE FURNISHED BY HIM.
- MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL CLEARANCES PRIOR TO FABRICATION OF DUCTWORK.
- PROVIDE VIBRATION ISOLATION DEVICES AND FLEXIBLE CONNECTIONS TO ALL MOVING MACHINERY.
- ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCT AND DIFFUSER LOCATIONS WITH LIGHTING LAYOUTS AS REQUIRED.
- MECHANICAL CONTRACTOR SHALL PROVIDE COMPLETE INFORMATION AND COOPERATION TO THE OTHER CONTRACTORS AND TRADES AS REQUIRED FOR COMPLETION AND COORDINATION OF THE COMPLETE PROJECT.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES, ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- TRANSITION ALL DUCTS AS REQUIRED TO ATTACH EQUIPMENT.
- MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE EIGHT FEET. FLEXIBLE DUCTWORK SHALL BE SUPPORTED FROM STRUCTURE AND SHALL BE INSTALLED FREE OF KINKS AND SAGS.
- PROVIDE BACKDRAFT DAMPERS FOR ALL EXHAUST FANS.
- PROVIDE TURNING VANES AT ALL DUCTWORK ELBOWS, UNLESS NOTED OTHERWISE.
- MANUFACTURER'S LISTED AS BASIS OF DESIGN ARE FOR COORDINATION OF SPECIAL PERFORMANCE, SPACE REQUIREMENTS, CLEARANCES, AND ELECTRICAL REQUIREMENTS ONLY. IF ANOTHER PRODUCT, MAKE OR MODEL IS USED IT SHALL BE THE RESPONSIBILITY OF MECHANICAL CONTRACTOR TO MAKE SURE THAT ANY CHANGES REQUIRED TO ACCOMMODATE EITHER THIS DISCIPLINE OR ANY OTHER IS TAKEN INTO CONSIDERATION AND APPROVED PRIOR TO BID. ANY COST DIFFERENCES ASSOCIATED WITH SUCH CHANGES SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- THESE DRAWINGS ARE CONSIDERED TO BE DIAGRAMMATIC ONLY, AND ARE NOT INTENDED TO INDICATE ALL CHANGES IN DIRECTION AND NECESSARY FITTINGS TO BE PROVIDED BY THIS SUBCONTRACTOR. CONDUIT, PIPING AND/OR DUCTWORK MAY BE RELOCATED OR OFFSET FOR PROPER CLEARANCES. DEVIATIONS FROM DRAWINGS MUST HAVE ARCHITECT'S APPROVAL. THE DESIGN INTENT I.E., PITCHES, VELOCITIES, PRESSURE DROPS CANNOT BE GREATLY ALTERED WITHOUT THE APPROVAL OF THE ARCHITECT. COST OF THESE DEVIATIONS TO AVOID INTERFERENCES SHALL BE PART OF THE ORIGINAL CONTRACT.
- SEAL ALL DUCT JOINTS AND INSULATED JOINTS WITH MASTIC.
- TEST AND BALANCE CONTRACTOR SHALL BALANCE ALL SYSTEM COMPONENTS TO FLOW RATES SCHEDULED OR SPECIFIED. EXHAUST AIR QUANTITIES INDICATED ON FLOOR PLANS FOR TOILETS ARE MINIMUM VALUES. EXHAUST AIRFLOW DEVICES, FANS, ETC. SHALL BE BALANCED BETWEEN MINIMUM VALUE AND 10 PERCENT OVER VALUE INDICATED.

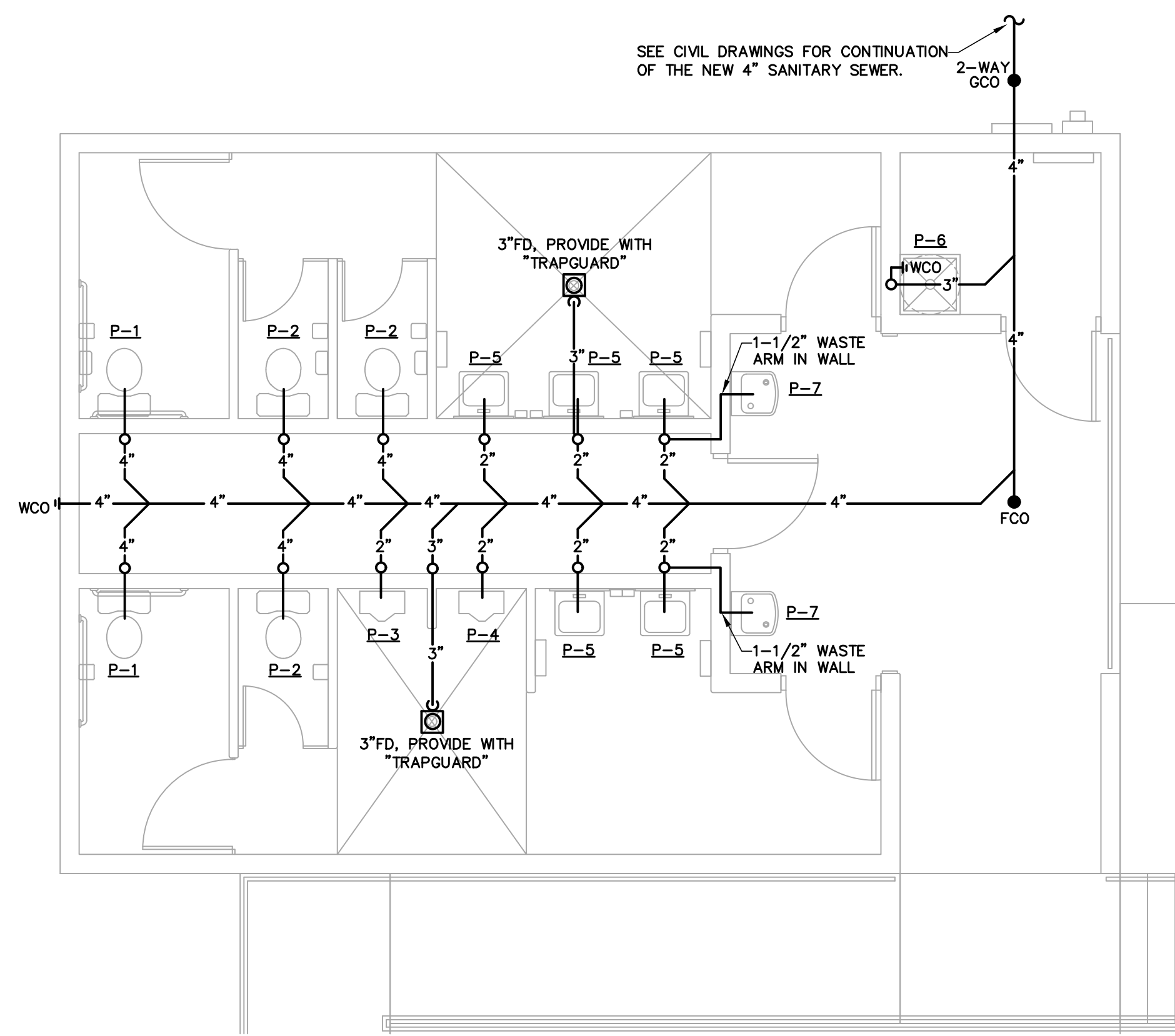
REV.	DATE	BY	DESCRIPTION

PROJECT NUMBER: 2143-02
DRAWN BY: AWV
CHECKED BY: AWV
ISSUE DATE: 3-22-24

DESCRIPTION

04-02-2024

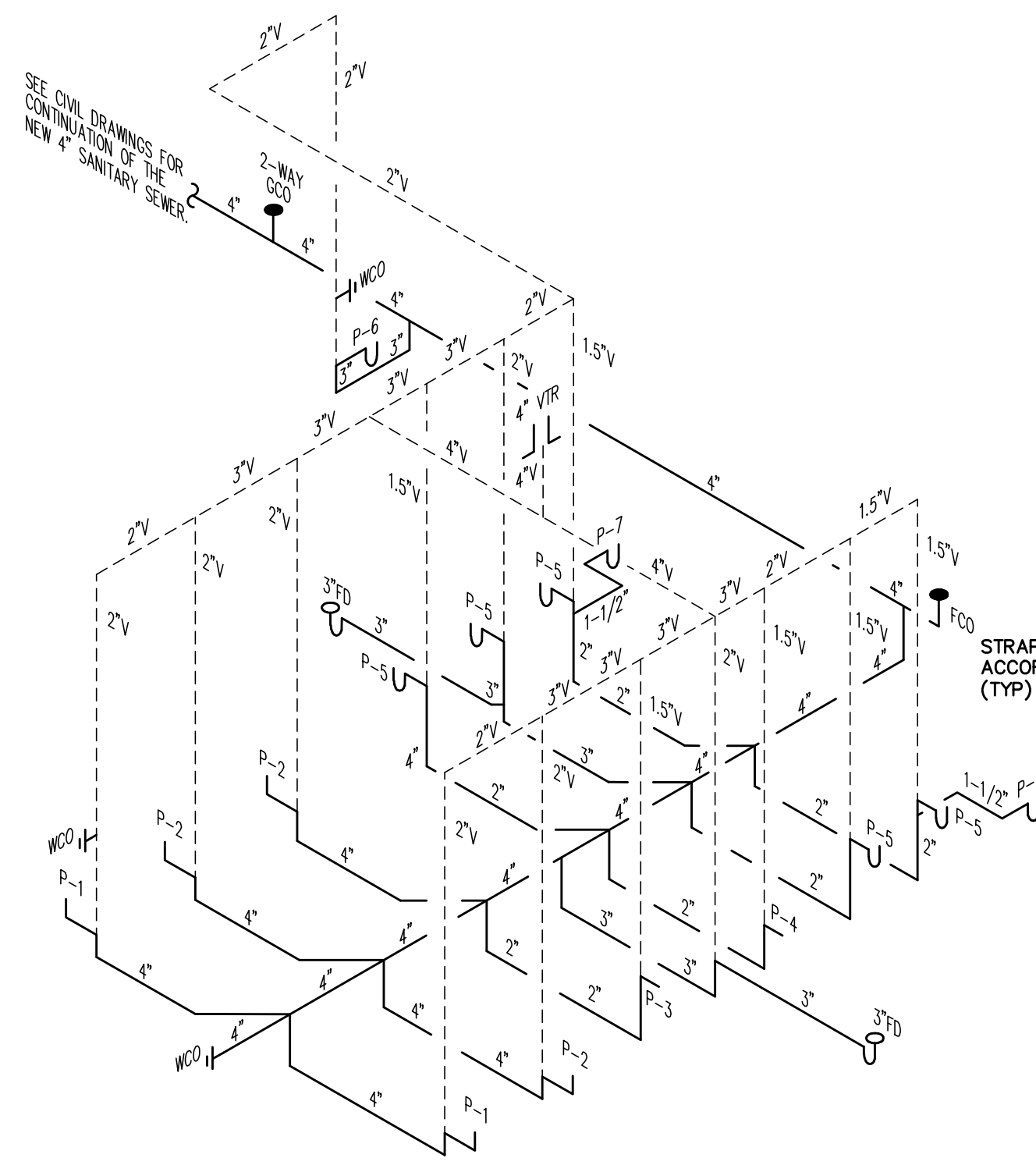
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PLUMBING WASTE PLAN

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

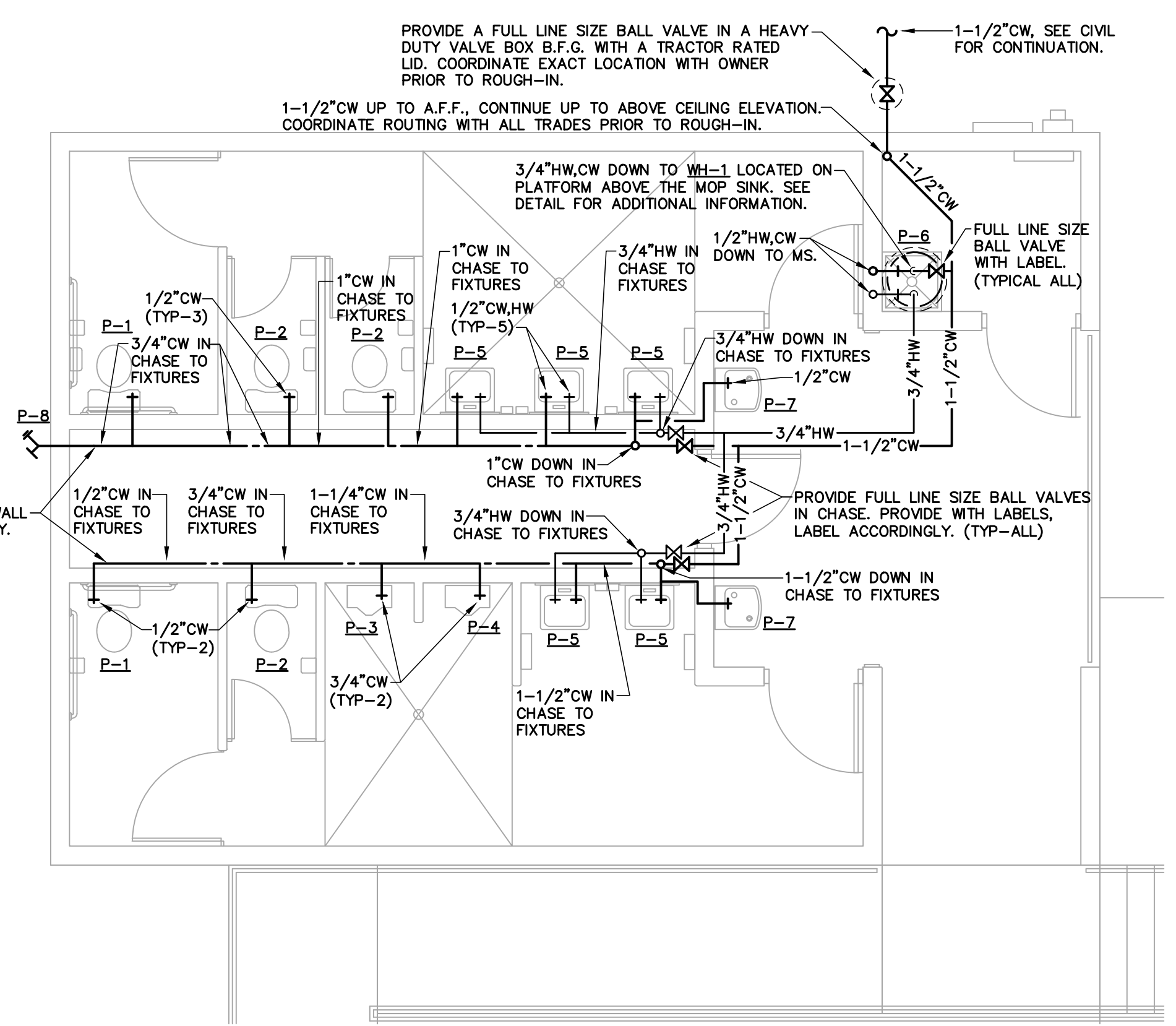
NOTE:
ALL PLUMBING WORK PERFORMED SHALL COMPLY WITH THE LOCAL APPLICABLE CODES.



PLUMBING WASTE RISER

NOT TO SCALE

NOTE:
ALL VENT THROUGH ROOF (VTR) PENETRATIONS SHALL MAINTAIN A MINIMUM OF 10'-0" CLEARANCE FROM ANY MECHANICAL HVAC OUTSIDE AIR INTAKE DEVICE. COORDINATE ALL VTR LOCATIONS WITH THE HVAC CONTRACTOR PRIOR TO INSTALLATION, COORDINATE WITH ALL TRADES THROUGH OUT THE ENTIRE LENGTH OF THE PROJECT.

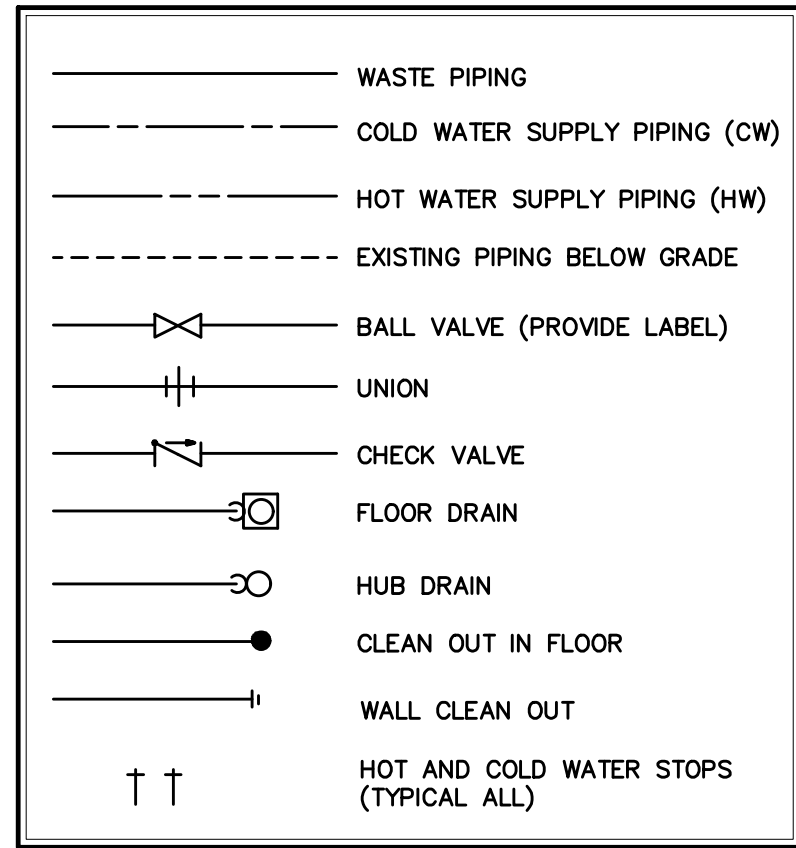


PLUMBING WATER PLAN

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

NOTE:
ALL PLUMBING WORK PERFORMED SHALL COMPLY WITH THE LOCAL APPLICABLE CODES.

- IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FIELD VERIFY ALL SITE CONDITIONS PRIOR TO STARTING ANY PHASE OF CONSTRUCTION. ANY CHANGES OR COST NOT SHOWN ON THESE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ENGINEER PRIOR TO BID. ANY CHANGE ORDERS BROUGHT UP AFTER THE ACCEPTED BID THAT DIRECTLY RELATES TO FAILURE OF A SITE VISIT SHALL BE SOLELY THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. THE OWNER WILL NOT PAY FOR CHANGE ORDERS DUE TO THE CONTRACTOR'S FAILURE TO PERFORM A THOROUGH SITE VISIT. COORDINATE WITH ALL TRADES, FIELD VERIFY ALL EXISTING CONDITIONS.
- ALL EXISTING UTILITY LOCATIONS SHOWN ON THIS PLAN ARE ASSUMED TO BE CORRECT. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROPERLY VERIFY ALL UNDER GROUND AND ABOVE GROUND UTILITIES PRIOR TO BID AND CONSTRUCTION.
- COORDINATE DEMOLITION AND NEW CONSTRUCTION WITH ALL TRADES THROUGHOUT THE ENTIRE LENGTH OF THIS PROJECT. ANY QUESTIONS ABOUT EXISTING SITE CONDITIONS CAN BE OBTAINED FROM THE ARCHITECT.
- KEEP ALL CUTTING AND PATCHING TO A MINIMUM.
- IT IS RECOMMENDED THAT THE SUBCONTRACTOR ARRANGE A PRE-JOB CONFERENCE WITH THE CONSTRUCTION SUPERVISOR FOR REVIEW & CLARIFICATION PRIOR TO STARTING ANY WORK.



PLUMBING LEGEND

NOT TO SCALE

SEWER/WASTE PIPING NOTE:
ALL SEWER/WASTE PIPING LOCATED BELOW DRIVEWAYS AND PARKING AREAS SHALL BE SDR-26, SCHEDULE 40 D2265 OR STRONGER. TYPICAL ALL.

ALL SEWER/WASTE PIPING BELOW THE BUILDING SLAB SHALL BE SCHEDULE 40, PVC, SOLID WALL. SCHEDULE 40, PVC, "FOAM CORE" WILL NOT BE ALLOWED BELOW SLAB. SCHEDULE 40, PVC, "FOAM CORE" SHALL BE ALLOWED FOR VENT PIPING ONLY.

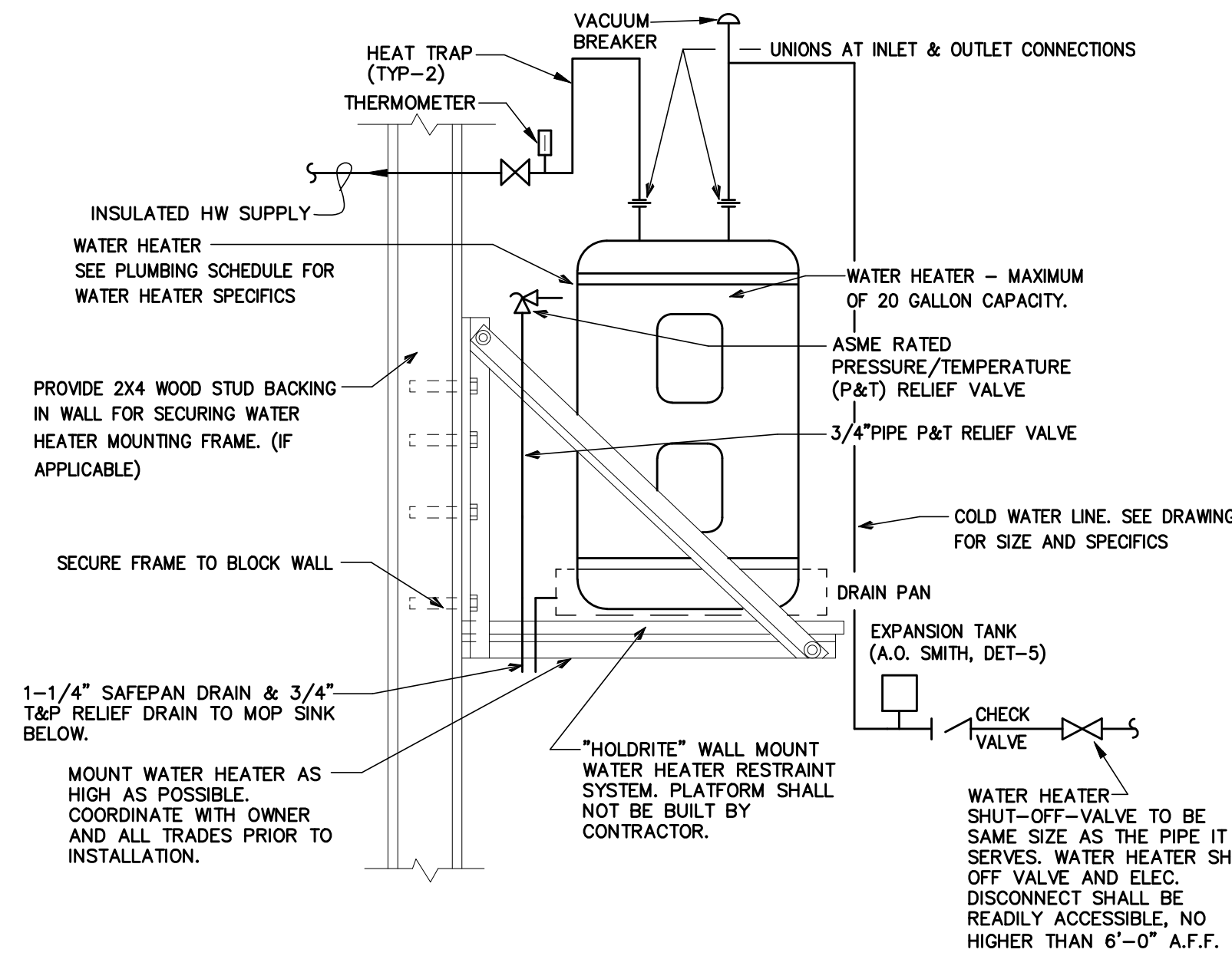
- THIS CONTRACTOR SHALL EXECUTE ALL WORK SO THAT IT PROCEEDS WITH A MINIMUM OF INTERFERENCE WITH OTHER TRADES AND NORMAL FUNCTIONING OF EXISTING FACILITIES AND SERVICES.
- VERIFY EXACT ROUGH-IN AND FINAL EQUIPMENT REQUIREMENTS IN FIELD.
- THE CONTRACTOR SHALL VERIFY THAT ALL PIPING, AS SHOWN ON THESE DRAWINGS WILL NOT CONFLICT WITH ANY DRAINS, SCUTTLES, JOINTS, VENTS, EQUIPMENT, ETC.
- COORDINATE ROUTING AND LOCATIONS OF WASTE AND VENT PIPING WITH ALL OTHER TRADES.
- THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR AND OTHER TRADES. ALL REQUIRED OPENINGS AND EXCAVATIONS. ALL REQUIRED OPENINGS IN FOUNDATIONS, FLOORS, WALLS, AND ROOFS SHALL BE DESIGNED INTO THE STRUCTURE INITIALLY BY THE USE OF SLEEVES, CURBS, ETC. CUTTING AND PATCHING SHALL BE HELD TO A MINIMUM.
- ALL ITEMS PROJECTING THROUGH THE ROOF SHALL BE FLASHED A MINIMUM OF 12" ABOVE THE ROOF. ALL VENTS SHALL BE A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE DEVICE.
- ALL FLOOR DRAINS ARE TO HAVE 4" DEEP SEAL TRAPS AND TRAP PRIMERS.
- PROVIDE STOPS AND SHOCK ABSORBERS AT EACH FIXTURE OR GROUP OF FIXTURES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDENSATE DRAIN PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" "ARMAFLEX" PIPE INSULATION.
- PROVIDE VACUUM BREAKERS AT FIXTURES WITH HOSE THREAD CONNECTIONS AND APPLIANCES WITH DIRECT CONNECTIONS TO DOMESTIC WATER.
- PROVIDE DI-ELECTRIC UNIONS AT ALL DISSIMILAR METAL PIPE CONNECTIONS.
- ALL WATER LINES INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED INSIDE OF WALL INSULATION AND INSULATED INDIVIDUALLY TO PROTECT FROM FREEZING. PIPING AND FITTINGS. INSULATE ALL CONDENSATE DRAIN PIPING AND FITTINGS WITH 1/2" "ARMAFLEX" PIPE INSULATION.
- ALL PLUMBING FIXTURES SHALL BE WHITE.
- INSTALL TRAP PRIMERS FLOOR DRAINS FOR BATHROOM, RESTROOM, JANITOR, MECHANICAL ROOMS. (NO EXCEPTIONS).
- PROVIDE APPROVAL BACKFLOW PREVENTION AT ALL EQUIPMENT DIRECTLY CONNECTED TO WATER SYSTEM.
- PROVIDE CLEANOUTS EVERY 75' OR AT EACH CHANGE IN DIRECTION MORE THAN 45° AS REQUIRED BY CODE.
- PROVIDE A PRESSURE REDUCING VALVE IF THE INCOMING PRESSURE EXCEEDS 80 PSI. IF A PRV IS UTILIZED THEN IT SHALL BE SET TO 80 PSI. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO DETERMINE IF REQUIRED.

GENERAL PLUMBING NOTES

NOT TO SCALE

POTABLE WATER SUPPLY PIPING MATERIAL NOTE:
COPPER TUBING SHALL BE USED FOR ALL PIPING. TYPE "L" TUBE SHALL BE USED ABOVE SLAB AND TYPE "K" TUBE SHALL BE USED BELOW SLAB ON GRADE. SWEAT FITTINGS SHALL BE EITHER CAST BRASS OR WROUGHT COPPER. SOLDER JOINTS SHALL BE CLEANED WITH STEEL WOOL OR EMERY CLOTH BEFORE APPLYING SOLDERING PASTE (FLUX) USING SOLDER FOR DOMESTIC WATER TUBING. IF ACCEPTABLE TO THE OWNER AND THE "AHJ", "PEX" OR "UPONOR" MAY BE UTILIZED IN LIEU OF COPPER.

POTABLE WATER SUPPLY INSULATION MATERIAL NOTE:
ALL WATER PIPING AS FOLLOWS SHALL BE COVERED WITH 1-INCH THICK HEAVY DENSITY FIBERGLASS SECTIONAL PIPE INSULATION EQUAL TO OWENS-CORNING FIBERGLASS 25 ASJ/SSL:
ALL HOT WATER PIPING ABOVE 1-1/4" SHALL BE INSULATED WITH 1-1/2" #4 DENSITY FIBERGLASS INSULATION WITH JOINTS AND ELBOWS TAPED.
1. DOMESTIC COLD WATER
2. DOMESTIC HOT WATER
FITTINGS FOR THE ABOVE SHALL BE INSULATED WITH PREMOULDED FITTING INSULATION OF THE SAME MATERIAL AND THICKNESS AS THE ADJACENT INSULATION AND SHALL BE COVERED WITH A PREMOULDED PLASTIC (PVC) VAPOR BARRIER AND SEALED WITH VAPOR BARRIER LAGGING ADHESIVE. ADHERE 3-INCH WIDE BUTT JOINT STRIPS OVER ALL END JOINTS WITH VAPOR BARRIER ADHESIVE. COVERING ADJACENT TO UNIONS AND OTHER POINTS OF TERMINATION SHALL BE FINISHED WITH THE PLASTIC MATERIAL NEATLY BEVELED. INSULATE FITTINGS ON ARMAFLEX INSULATION WITH FLEXIBLE FOAM SPLIT AND JOINTS SEALED WITH APPROVED MASTIC. NO ADDITIONAL FINISH IS REQUIRED ON ARMAFLEX INSULATION INSIDE THE BUILDING WALLS.



NOTE:
INSTALL WATER HEATER AND EXPANSION TANK IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS.

NOTE:
WATER HEATER IS MOUNTED ON WALL PLATFORM. INSTALL AS HIGH AS POSSIBLE. COORDINATE EXACT LOCATION WITH OWNER AND ALL TRADES PRIOR TO INSTALLATION.

WALL MOUNTED WATER HEATER DETAIL

NOT TO SCALE

PLUMBING SITE NOTES

NOT TO SCALE

MARK	FIXTURE	CONN.			MANUFAC. & MODEL	DESCRIPTION
		W	CW	HW		
P-1	WATER CLOSET (HANDICAP)	4"	1/2"	-	Am. Std. 2467.016	FLOOR MOUNTED BOTTOM OUTLET, PRESSURE ASSIST, ELONGATED TOILET, 1.6 GAL. FLUSH TANK TYPE WITH REGULAR ELONGATED OPEN FRONT SEAT (ADA COMPLIANT).
P-2	WATER CLOSET	4"	1/2"	-	Am. Std. 2462.016	FLOOR MOUNTED BOTTOM OUTLET, PRESSURE ASSIST, ELONGATED TOILET, 1.6 GAL. FLUSH TANK TYPE WITH REGULAR ELONGATED OPEN FRONT SEAT.
P-3	URINAL	2"	3/4"	-	Am. Std. 6590.001	WALL HUNG WASHOUT 0.5 GAL FLUSH WITH SLOAN REGAL 186-0.5-(YK-BRACE) FLUSH VALVE. ZURN Z1222 CARRIER. INSTALL Ø 24" FROM FINISH FLOOR TO TOP OF RIM. (REGULAR)
P-4	URINAL (HANDICAP)	2"	3/4"	-	Am. Std. 6590.001	WALL HUNG WASHOUT 0.5 GAL FLUSH WITH SLOAN REGAL 180-YB FLUSH VALVE. JR SMITH ZURN Z1222 CARRIER. INSTALL Ø 17" FROM FINISH FLOOR TO TOP OF RIM. (ADA)
P-5	LAVATORY	1 1/4"	1/2"	1/2"	Am. Std. 0355.012	WALL HUNG VITREOUS CHINA, 4"Ø, FAUCET HOLES, SYMMONS S-20-2-G SINGLE HANDLE FAUCET, TRAP AND STRAINER. ZURN Z1223 CONCEALED ARM CARRIER. SEE ARCHITECTURAL INTERIOR ELEVATIONS FOR EXACT ADA COMPLIANT LOCATIONS AND MOUNTING HEIGHTS. INSULATE WATER SUPPLY AND WASTE PIPING UNDER HANDICAPPED LAVATORIES WITH "HANDI-LAV GUARD" JACKET BY TRUEBRO (203) 875-2968. PROVIDE EACH FAUCET WITH A ASSE 1070 MIXING VALVE SET LEAVING TEMPERATURE @ 110° F.
P-6	MOP SINK	3"	1/2"	1/2"	Flot MSB-2424	FLOOR MOUNTED MOLDED STONE BASIN WITH FIAT 830-AA FAUCET, 832-AA HOSE, 889-CC MOP BRACKET, 1453-BB ALTERNATE STRAINER.
P-7	WATER COOLER	1 1/2"	1/2"	-	Elkay VRCBS	ADA COMPLIANT WALL MOUNTED, VANDAL RESISTANT, BARRIER FREE, NON-FILTERED WATER COOLER. COORDINATE MOUNTING HEIGHT & LOCATION WITH ARCHITECTURAL DRAWINGS. PROVIDE WITH ELKAY MLP100 WALL CARRIER AND 98324C CANE APRON.
P-8	EXTERIOR HOSE BIBB	-	3/4"	-	Zurn Z-1320	ZURN Z-1320, ECOLOTROL WALL HYDRANT WITH CERAMIC DISC. ENCASED, NON-FREEZE, ANTI-SIPHON, AUTO DRAIN. S.S. BOX & HINGED COVER W/ OPERATING KEY LOCK AND "WATER" STAMPED ON COVER. ALL BRONZE INTERIOR PARTS.
WH-1	WATER HEATER	3/4"	3/4"	3/4"	A.O. Smith DEL-20	A.O. SMITH, 20 GALLON, 120V, 1.5kW, ELECTRIC WATER HEATER. PROVIDE WITH DRAIN PAN. SEE DETAIL FOR ADDITIONAL INFORMATION. ROUTE T&P AND DRAIN PAN TO MOP SINK BELOW. SET LEAVING TEMP @ 120°F.

NOTE: PROVIDE ALL SINKS WITH OVERFLOW HOLES. LOCATED IN FRONT. (TYPICAL ALL LAVATORIES)

PLUMBING FIXTURE SCHEDULE

NOT TO SCALE

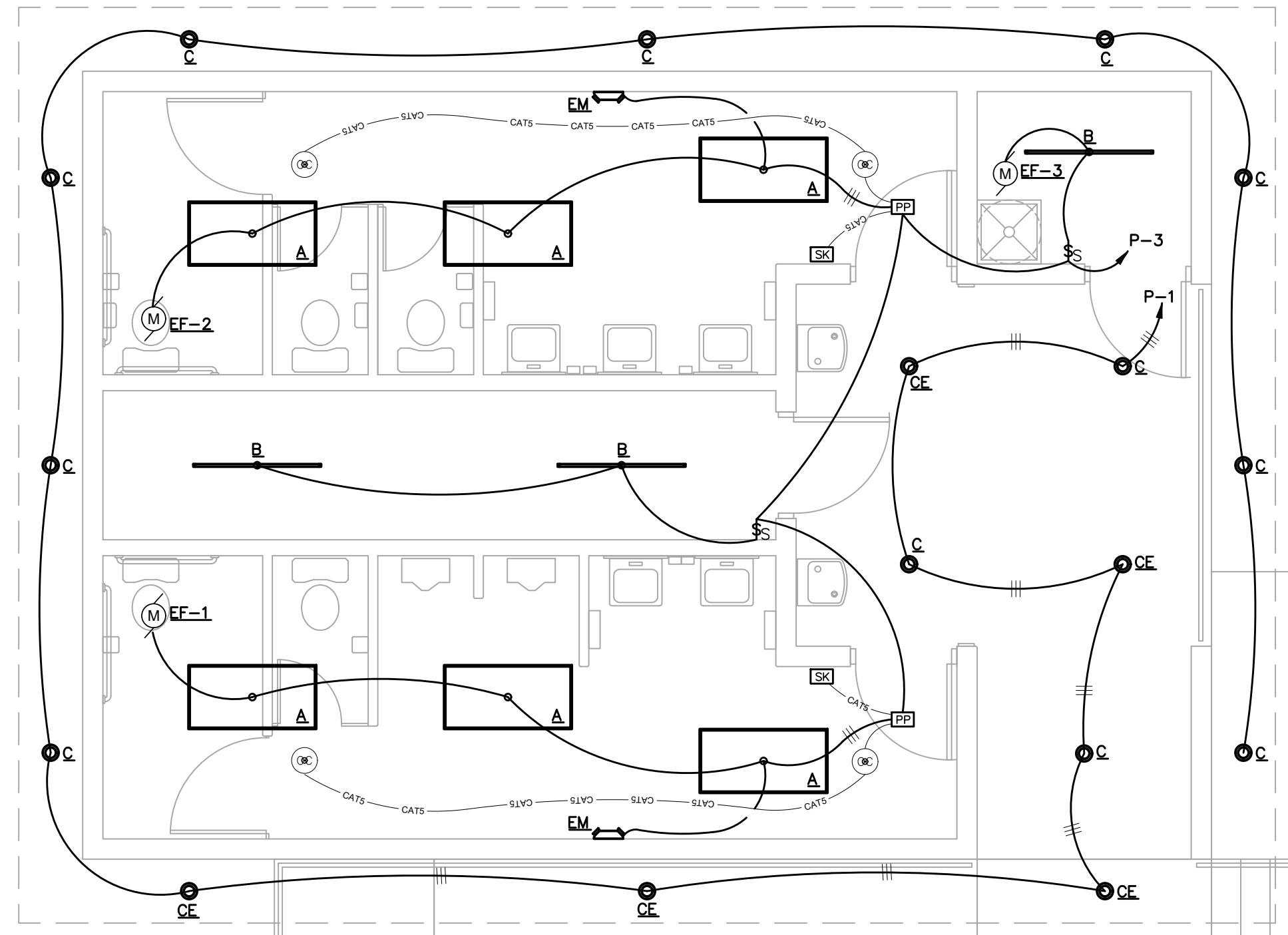
NO.	DATE	DESCRIPTION	BY
1	4/2/24	OWNER REQUESTED CHANGES	NTH

PROJECT NUMBER: 2143-02
DRAWN BY: NTH
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ISSUE DATE: 3-22-24

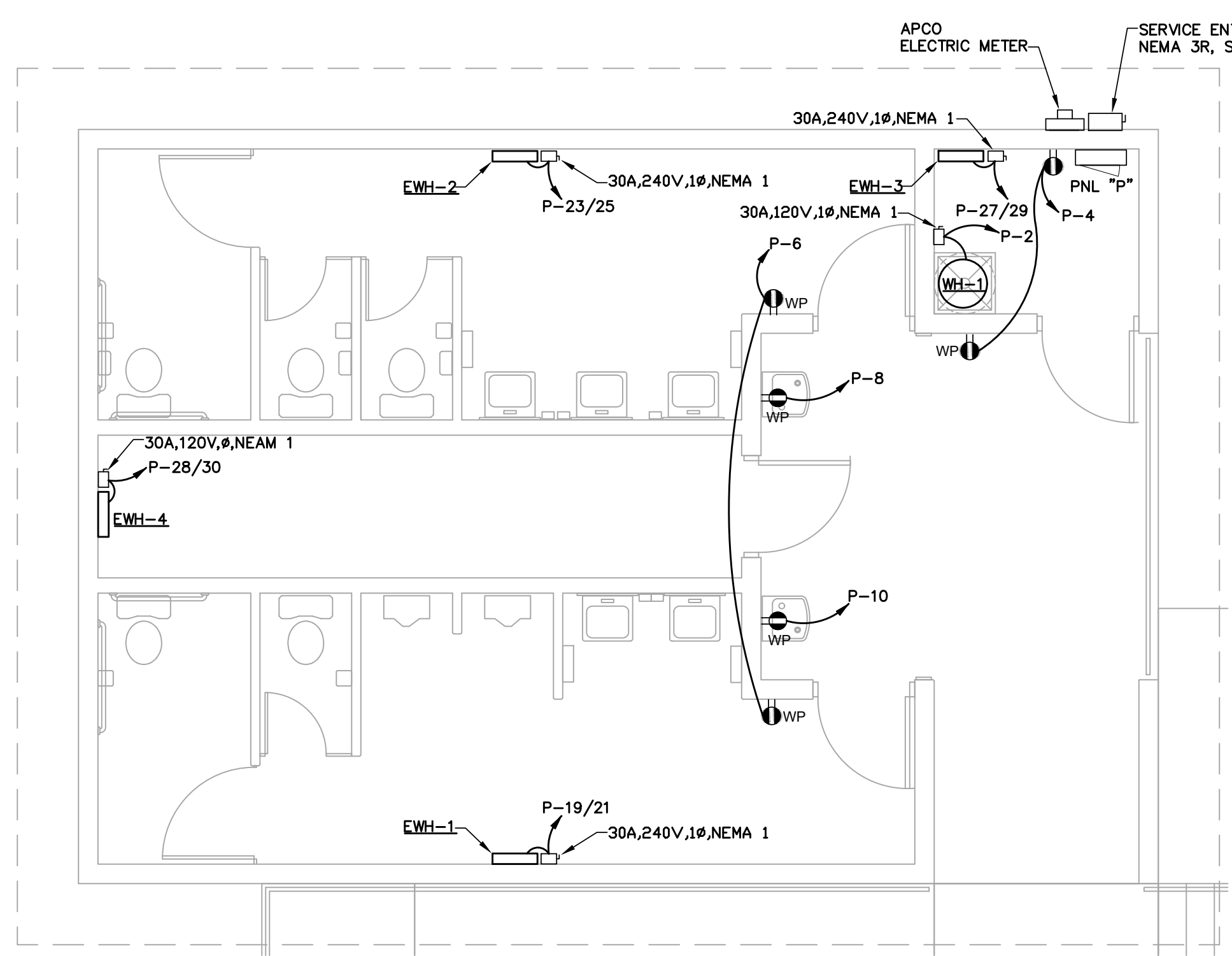
DESCRIPTION

ALABAMA PROFESSIONAL ENGINEER
DAVID W. VAILLO
04-02-2024

LAST SAVED/PRINTED BY: NTH/ML 4/22/24 10:34:37 AM 1/2024 Project: Files/2024/018/DWG/2024/018-PL.rvt



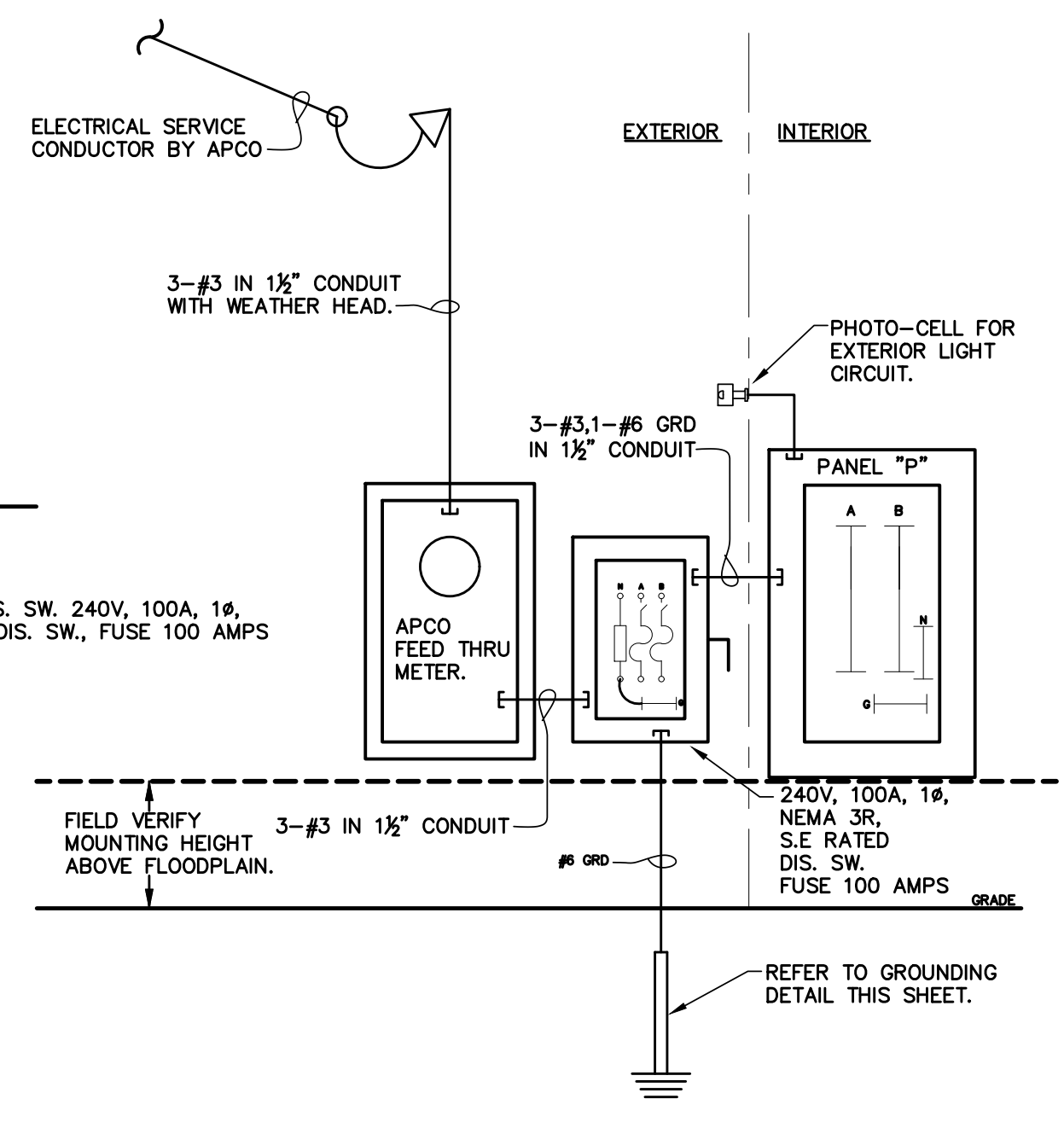
ELECTRICAL LIGHTING PLAN
SCALE: 1/4" = 1'-0"



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

CONDUIT AND CONDUCTOR

MARK	DESCRIPTION:
⎓	CIRCUIT HOMERUN ABOVE CEILING OR IN WALLS. TICK MARKS INDICATE NUMBER OF CONDUCTORS IF MORE THAN TWO. GROUND CONDUCTOR NOT SHOWN.
⎓	CIRCUIT HOMERUN BELOW GROUND. TICK MARKS INDICATE NUMBER OF CONDUCTORS IF MORE THAN TWO. GROUND CONDUCTOR NOT SHOWN.
⎓	20 AMP, 120 VOLT DUPLEX GROUND FAULT CIRCUIT INTERRUPTING TAMPER-RESISTANT DUPLEX RECEPTACLE WITH MATCHING FACE PLATE. MOUNT AT 18" A.F.F. UNLESS OTHER WISE NOTED. COLOR BY OWNER.
⎓	20 AMP, 120 VOLT DUPLEX GROUND FAULT CIRCUIT INTERRUPTING TAMPER-RESISTANT DUPLEX RECEPTACLE WITH WATER PROOF COVER. MOUNT AT 18" A.F.F. UNLESS OTHER WISE NOTED.
⎓	ELECTRICAL PANEL BOARD. SEE PANEL SCHEDULE FOR SPECIFICATION.
⊕	JUNCTION BOX
Ⓜ	ELECTRICAL MOTOR, SEE MECHANICAL PLANS.
⎓	DISCONNECT SWITCH, SIZE AS NOTED. FUSE PER EQUIPMENT NAME PLATE DATA.



ELECTRICAL RISER DIAGRAM
SCALE: NOT TO SCALE

LIGHT FIXTURES

MARK	LAMPS	VOLTS	WATTS	MANUF. & CATALOG No.	MOUNTING	DESCRIPTION:	NOTES
A	LED	120	36/45/55	LITHONIA LIGHTING CPANL-2X4-AL06-SWW7-M2	SURFACE	LED 2X4 FLAT PANEL. SELECTABLE LUMEN OUTPUT, 4000/5000/6000 LUMES.	-
B	LED	120	27/36/43	LITHONIA LIGHTING CSS-L48-AL03-MVOLT-SWW3-80CRI	SURFACE	LED STRIP FIXTURE. SELECTABLE LUMEN OUTPUT, 3000/4000/5000 LUMES.	-
C	LED	120	19.7	GOHAM LIGHTING EV06R-40/20-AR-LSS-WD-PCL-MVOLT-EZ1	RECESSED	6" LED CAN LIGHT	-
CE	LED	120	19.7	GOHAM LIGHTING EV06R-40/20-AR-LSS-WD-PCL-MVOLT-EZ1-ELR	RECESSED	6" LED CAN LIGHT WITH EMERGENCY BATTERY PACK	CIRCUIT EMERGENCY BATTERY PACK AHEAD OF LOCAL SWITCH.
EM	LED	120	10.6	LITHONIA LIGHTING ELM6L	SURFACE	EMERGENCY FIXTURE	CIRCUIT EMERGENCY BATTERY PACK AHEAD OF LOCAL SWITCH.

LIGHTING CONTROLS

MARK	MANUF. & CATALOG No.	DESCRIPTION:
Ⓢ	SENSOR SWITCH WSX PDT	WALL BOX, LINE VOLTAGE, DUAL TECHNOLOGY OCCUPANCY SENSOR.
Ⓜ	nLIGHT nPP-16	nLIGHT SYSTEM POWER PACK.
Ⓜ	nLIGHT nPODM KEY MNTN	nLIGHT SYSTEM ON/OFF KEY WALL STATION FOR ONE ZONE. COLOR BY ARCHITECT.
Ⓜ	nLIGHT nCM PDT 9	nLIGHT SYSTEM STANDARD RANGE 360° SENSOR, CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY (PDT).
Ⓜ	(INDUSTRY STANDARD)	CAT5e CABLE BETWEEN nLIGHT DEVICES. CAT5e CABLE TO BE PER MANUFACTURE SPECIFICATIONS.

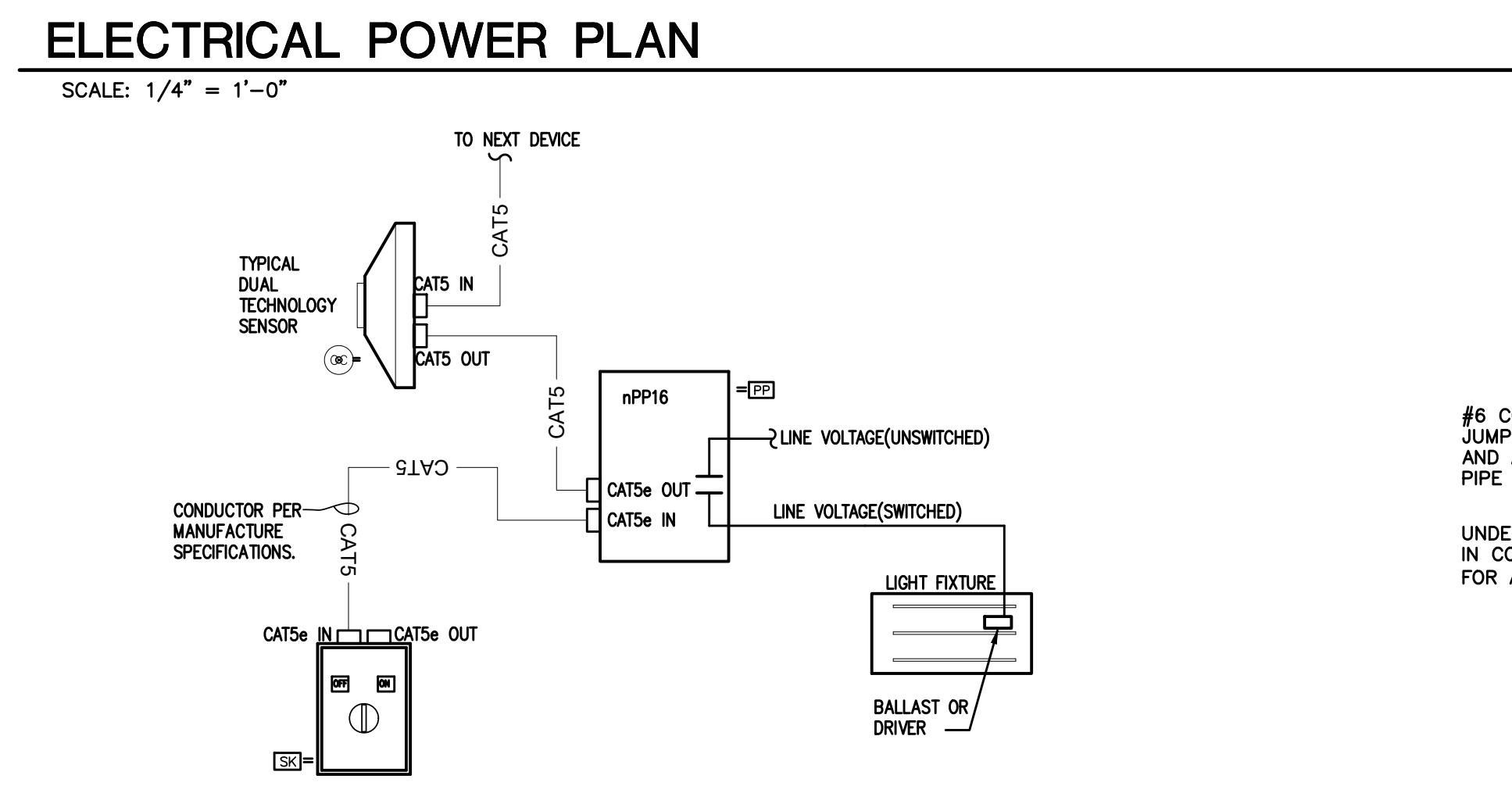
NOTES:

- ALL LIGHTING CONTROL DEVICES THAT ARE LOCATED ABOVE CEILING ARE TO BE LOCATED ABOVE LAY-IN CEILING OR PROVIDE CEILING HATCH IN HARD CEILING BELOW DEVICE. NO LIGHT CONTROL DEVICES ARE TO BE LOCATED IN A LOCATION THAT NOT CAN BE ACCESSED FOR MAINTENANCE.
- ALL LIGHTING CONTROL DEVICES ARE TO BE SET TO OCCUPANCY CONTROL.
- ALL LIGHTING CONTROL WIRING SHOWN ON THIS SET OF PLANS IS DIAGRAMMATIC ONLY. LIGHTING CONTROL SUPPLIER TO PROVIDE SHOP DRAWINGS DETAILING ALL LIGHTING CONTROL DEVICES, WIRING AND CONNECTIONS.

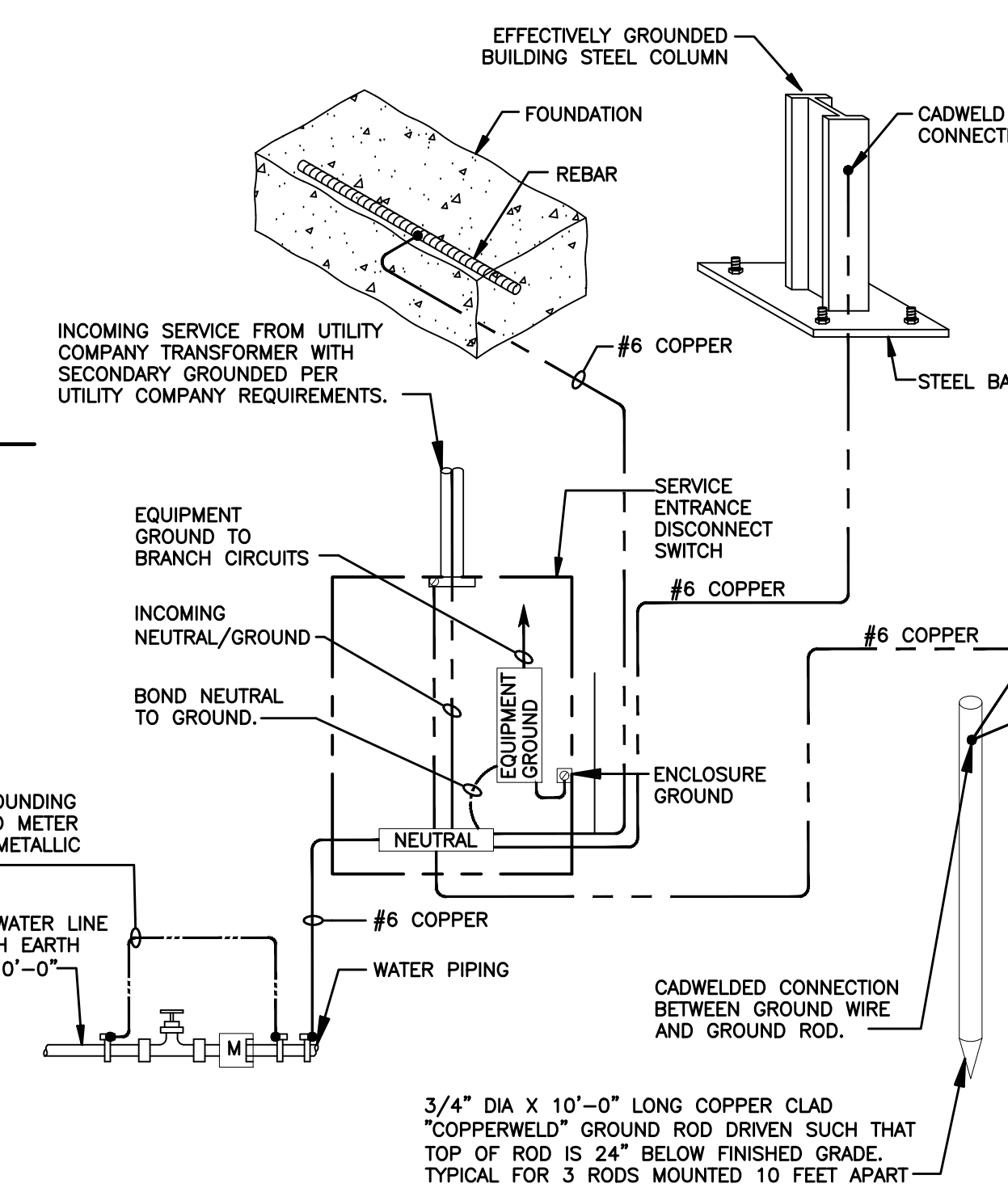
BID NOTES:

- SCHEDULED LIGHTING CONTROL DEVICES ARE THE BASIS OF DESIGN FOR THIS PROJECT. EQUAL CONTROL DEVICES SHALL BE EQUAL IN ALL RESPECTS TO THE BASIS OF DESIGN.

- GENERAL ELECTRICAL NOTES**
- ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ACCEPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES.
 - CONDUIT ROUTINGS AND DEVICE/EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTOR SHALL FIELD ROUTE AND LOCATE AS REQUIRED.
 - ALL ELECTRICAL EQUIPMENT AND DEVICES SHALL BE PROVIDED WITH SUITABLE PHENOLIC NAMEPLATES.
 - CATALOG NUMBERS AND MANUFACTURERS SHOWN ARE TO INDICATE FIXTURES, QUALITY, AND TYPE OF ITEM DESIRED ONLY, EQUALS WILL BE ACCEPTED.
 - THE CONDUIT MATERIAL SHALL BE AS FOLLOWS:
 - A) BELOW GRADE - RIGID NON-METALLIC.
 - B) EXPOSED RISER FROM 36" BELOW GRADE - RIGID GALVANIZED STEEL.
 - C) CONCEALED RISER FROM 36" BELOW GRADE - RIGID NON-METALLIC.
 - D) ABOVE GRADE SUBJECT TO PHYSICAL ABUSE OR WEATHER - RIGID GALVANIZED STEEL OR INTERMEDIATE.
 - E) ABOVE GRADE NOT SUBJECT TO PHYSICAL ABUSE OR WEATHER - ELECTRICAL METALLIC TUBING.
 - F) INDOORS NOT SUBJECT TO PHYSICAL ABUSE ELECTRICAL METALLIC TUBING.
 - THE LOADS SHOWN FOR APPLIANCES AND EQUIPMENT ARE BASED ON DESIGN INFORMATION. THE CONTRACTOR SHALL VERIFY ALL APPLIANCE LOADS PRIOR TO RUNNING THE CIRCUIT. THE MINIMUM CIRCUIT REQUIREMENTS SHALL BE BASED ON THE APPLIANCE NAMEPLATE VALUE OR CODE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. ADDITIONAL COMPENSATION SHALL NOT BE ALLOWED FOR APPLIANCE MODIFICATIONS BY THE CONTRACTOR.
 - COORDINATE LOCATIONS OF ELECTRICAL EQUIPMENT, DEVICES, OUTLETS, FIXTURES, ETC., WITH ARCHITECTURAL PLANS, ELEVATIONS AND REFLECTED CEILING PLANS PRIOR TO ROUGH-IN WORK.
 - CONTRACTOR SHALL SUPPLY ALL NECESSARY ELECTRICAL DEVICES IN THE CABINETS, INCLUDING BUT NOT LIMITED TO: RECEPTACLES; CONDUIT; JUNCTION BOXES; CONDUCTORS; DEVICE PLATES.
 - PROVIDE A 6"-0" MAXIMUM FLEXIBLE CONNECTION FROM EACH RECESSED LIGHTING FIXTURE TO JUNCTION BOX ABOVE CEILING.
 - ALL CONDUITS NOT LOCATED UNDER SLAB SHALL HAVE A MINIMUM BURIAL DEPTH OF 36" UNLESS NOTED OTHERWISE.
 - ALL SAFETY SWITCH DISCONNECTS LOCATIONS SHALL HAVE 3'-0" MIN. OF WORKING SPACE IN FRONT OF DISCONNECT; COORDINATE WITH MECHANICAL CONTRACTOR AND EQUIPMENT LOCATIONS.
 - FINAL CONDUIT CONNECTIONS TO HEAT PUMPS, AIR HANDLERS, EXHAUST FANS, AND WATER HEATERS SHALL BE FLEXIBLE METAL (LIQUID TIGHT IN FLAMMABLE, OUTSIDE AND OTHER DAMP AND WET LOCATIONS).
 - CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION AND SIZE OF EQUIPMENT WHICH ARE PROVIDED BY OTHERS AND CONNECTED BY ELECTRICAL.
 - RECEPTACLES, SWITCHES AND COVER PLATES COLOR SHALL BE SELECTED BY THE ARCHITECT FROM STANDARD COLORS.
 - VERIFY ALL DOOR SWINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGHING IN FOR SWITCHES.
 - CONDUITS LEAVING OR ENTERING BUILDING SHALL BE SEALED PER N.E.C. TO PREVENT ENTRANCE OF MOISTURE.
 - ALL EXHAUST FAN DISCONNECTS AND OVERLOADS ARE SCHEDULED TO BE PROVIDED UNDER DIVISION 15.
 - COORDINATE MOUNTING HEIGHT OF ALL RECEPTACLES AND DATA OUTLETS WITH OWNERS FURNITURE LAYOUT.
 - ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR FIRE STOPPING ALL CONDUIT PENETRATIONS THROUGH FIRE RATED WALLS, CEILING AND FLOORS PER UL APPROVED METHOD.
 - ELECTRICAL CONTRACTOR TO COORDINATE MOUNTING HEIGHTS OF ALL NON-CEILING MOUNTED LIGHT FIXTURE WITH ARCHITECTURAL PLANS.
 - ELECTRICAL CONTRACTOR TO COORDINATE ALL WALL MOUNTED ELECTRICAL DEVICES, SWITCHES, DIMMERS, RECEPTACLES, FIRE ALARM HORN/STROBE, FIRE ALARM PULL STATIONS, ACCESS CONTROL CARD READERS, ETC. WITH ARCHITECTURAL PLANS AND OWNER PROVIDE DEVICES PRIOR TO ROUGH-IN.
 - ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION ALL ELECTRICAL JUNCTION BOXES IN FIRE WALLS PER ALL REQUIRED CODES. THIS TO INCLUDE BUT NOT LIMITED TO HORIZONTAL DISTANCES, SOLID FIRE-BLOCKING OR BY OTHER LISTED MATERIAL AND METHODS.



LIGHTING CONTROL DETAIL
SCALE: NOT TO SCALE



ELECTRICAL GROUNDING DETAIL
SCALE: NOT TO SCALE

CIRCUIT SCHEDULE PANEL "P"

PHASE: 1
WIRE: 3, SOLID

MAIN: LUGS ONLY
VOLTS: 240 / 120
AMP: 100
AIC RATING: 22,000

BUSS: COPPER
BREAKERS: BOLT ON
ENCLOSURE: NEMA 1
MOUNTING: SURFACE

NOTES	LOAD DESCRIPTION	COND. SIZE	PH	N	GND	CKT. NO.	PH. "A"	PH. "B"	CKT. NO.	COND. SIZE	PH	N	GND	LOAD DESCRIPTION	NOTES
1	EXTERIOR LLTS	1/2"	12	12	12	20/1	1	0.4 / 1.4	2	30/1	10	10	10	3/4"	WATER HEATER
	INTERIOR LTS	1/2"	12	12	12	20/1	3	0.5 / 0.4	4	20/1	12	12	12	1/2"	REC-JAN/PORCH
	SPARE					20/1	5	/ 0.4	6	20/1	12	12	12	1/2"	REC-MENS, WOMENS
	SPARE					20/1	7	/ / 0.5	8	20/1	12	12	12	1/2"	REC-EWC
	SPARE					20/1	9	/ 0.5	10	20/1	12	12	12	1/2"	REC-EWC
	SPARE					20/1	11	/ /	12	20/1	12	12	12		SPARE
	SPARE					20/1	13	/ /	14	20/1	12	12	12		SPARE
	SPARE					20/1	15	/ /	16	20/1	12	12	12		SPARE
						17	/ /	/ /	18						
	EW-1	3/4"	10	10	10	30/2	19	2.0 /	20						
						21	2.0 /	2.0 /	22						
	EW-2	3/4"	10	10	10	30/2	23	2.0 /	24						
						25	2.0 /	0.9 / 0.9	26						
						27	0.9 /	0.9 /	28						
	EW-3	3/4"	10	10	10	30/2	29	0.9 / 0.9	30	30/2	10	10	10	3/4"	EW-4
						TOTAL (KVA)	8.43	7.86							
						TOTAL (AMPS)		67.9							

NOTES:

- CIRCUIT THROUGH PHOTO-CELL.
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NEW RESTROOMS FOR
TOWN OF DAUPHIN ISLAND
661 BIENVILLE BLVD., DAUPHIN ISLAND, AL 36528

REV	DATE	BY	DESCRIPTION
1	4/2/24	JWM	OWNER REQUESTED CHANGES

PROJECT NUMBER: 2143-02
DRAWN BY: JWM
CHECKED BY: JBD
ISSUE DATE: 3-22-24

DESCRIPTION

ALABAMA REGISTERED PROFESSIONAL ENGINEER
JAMES B. DAVIS
04-02-2024

SHEET TITLE:
ELECTRICAL PLANS

SHEET NUMBER:
E1

LAST SAVED: BUCKID BUCKID PRINTED BY: BUCKID 4/2/2024 10:38:55 AM 1/2024 Project File: 2024.01.BID.WG.02.01.16-E1.dwg