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POLK COUNTY WELCOME CENTER, REST AREA & VENDING RENOV .
I-26
COLUMBUS, NC

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11075
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ENGINEER
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LysaghtAssociates.com
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NORTH CAROLINA
PROFESSIONAL
SEAL
PE046123
ENGINEER
MARK R. BLANKENSHIP

Signed by:
Mark R. Blankenship
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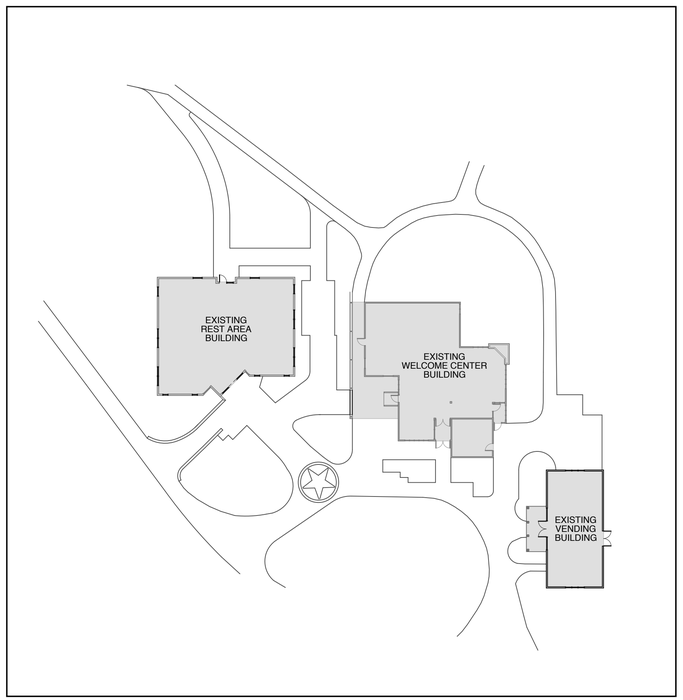
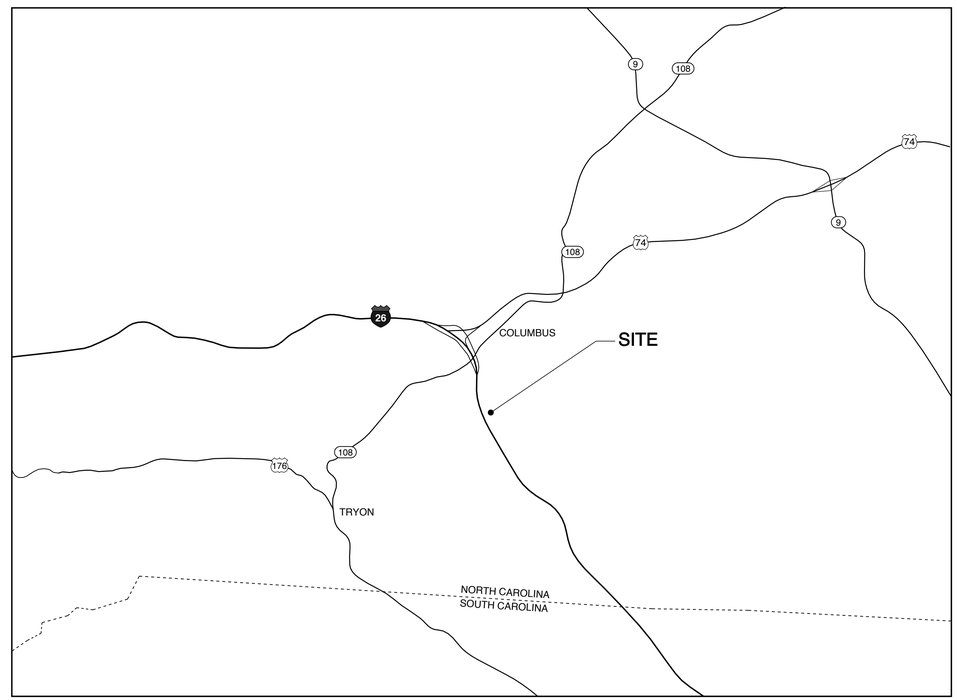
12/13/2025



2 SITE KEY PLAN
SCALE: NTS



1 VICINTY MAP
SCALE: NTS

DRAWING INDEX

G0.0	Cover Sheet
G0.1	Appendix B
G0.2	Exist. Site Plan (for reference)
G0.3	Life Safety Plan
A1.0	Rest Area Demo Plan
A1.1	R. A. Floor Plan
A1.2	R. A. Finish Plan
A1.3	R. A. RCP
A1.4	R. A. Elevations
A1.5	R. A. Int. elevations
A1.6	Porch foundation & framing
A1.7	Wall Sections & Roof Plan
A2.0	Welcome Center Demo
A2.1	W. C. Floor Plan
A2.2	W. C. Elevations
A2.3	W. C. Elevations & Roof plan
A2.4	Porch foundation & framing
A2.5	Wall sections
A3.1	Vending Plans & demo elev.
A3.2	Vending Elevations & sect.
A4	Misc. Details
A5	Window & Door details
S1.0	Porch overbuild structural notes
P1	Plumbing Notes & Schedules
P2	Demo Plumbing Plan
P3	Revised Plumbing Plan
M1	HVAC Notes & Schedules
M2	Existing HVAC Plan
M3	Revised HVAC Plan
M4	HVAC Details
E1	Electrical Details & Legend
E2	Existing Lighting Plan
E3	Revised Lighting Plan
E4	Existing Power Plan
E5	Revised Power Plan
E6	Panels & Riser
E6.1	Panels & Riser
E7	Electrical Site Plan

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
COVER SHEET

SHEET 1 OF 22

G0.0

PLOT DATE 12/13/25
REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

POLK COUNTY WELCOME CENTER, REST AREA & VENDING RENOV .

I-26

COLUMBUS, NC

NC DEPT. OF INSURANCE 2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 & 2-FAMILY DWELINGS AND TOWNHOUSES)
(REPRODUCE THE FOLLOWING DATAON THE BUILDING PLANS SHEET 1 OR 2)

NC

Name Of Project: **POLK COUNTY REST AREA RENOVATION**
Address: I-26, COLUMBUS, NC
Zip Code: ---
Owner Or Authorized Agent: W. S. Architects, PA Phone: (919) 779-9797
E-mail ginger@wsarchitectspa.com

Owned By: [ ] City/County [ ] Private [X] State
Code Enforcement Jurisdiction: [ ] Town [ ] County [X] State

LEAD DESIGN PROFESSIONAL: W. S. ARCHITECTS, PA

Designer	FIRM	NAME	LIC. #	TELEPHONE	E-MAIL
Architectural:	W. S. Architects	Ginger S. Summer	11075	(919) 779-9797	ginger@wsarchitectspa.com
Civil	---	---	---	---	---
Electrical:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Fire Alarm:	---	---	---	---	---
Plumbing:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Mechanical:	Burke Design Group	Benjamin E. Burke	22038	(919) 771-1916	benburke@nc.rr.com
Sprinkler-Standpipe:	---	---	---	---	---
Structural:	Lysaght & Assoc.	Mark R. Blankenship	46123	(919) 833-0495	markb@lysaghtassociates.com
Retaining Walls	---	---	---	---	---
>5' High:	---	---	---	---	---
Other:					

2018 NC BUILDING CODE: [ ] New Building [ ] Shell/Core [ ] 1st Time Interior Completions
[ ] Addition [ ] Phased Construction - Shell Core

2018 NC **EXISTING BUILDING CODE:** [ ] Prescriptive [ ] Alteration Level I [ ] Historic Property
[ ] Repair [X] Alteration Level II [ ] Change of Use
[ ] Chapter 14 [ ] Alteration Level III

CONSTRUCTED: (date) 2001 CURRENT OCCUPANCY(S) (Ch. 3): B
RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (Ch. 3): B
OCCUPANCY CATEGORY (Table 1604.5): Current: II Proposed:II

BASIC BUILDING DATA

CONSTRUCTION TYPE: [ ] I-A [ ] II-A [ ] III-A [ ] IV [ ] V-A
[ ] I-B [ ] II-B [ ] III-B [X] V-B
SPRINKLERS: [X] NO [ ] PARTIAL [ ] NFPA 13 [ ] NFPA 13R [ ] NFPA 13D
STANDPIPES: [X] NO CLASS [ ]I [ ] II [ ] III [ ] WET [ ] DRY
PRIMARY FIRE DISTRICT: [X] NO [ ] YES **FLOOD HAZARD AREA:** [X] NO [ ] YES
SPECIAL INSPECTIONS REQUIRED: [X] NO [ ] YES

GROSS BUILDING AREA

	EXISTING (SF)	NEW (SF)	SUB-TOTAL
REST AREA	2,614	---	2,614
WELCOME CENTER	2,828	---	2,828
VENDING	1,188	---	1,188
TOTAL	**6,630**	**---**	**---**

ALLOWABLE AREA:

PRIMARY OCCUPANCY:

[ ] ASSEMBLY [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
[X] BUSINESS
[ ] EDUCATIONAL
[ ] FACTORY [ ] F-1 Moderate [ ] F-2 Low
[ ] HIGH-HAZARD [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
[ ] INSTITUTIONAL [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-1 Condition [ ] 1 [ ] 2
I-2 Condition [ ] 1 [ ] 2
I-3 Condition [ ] 1 [ ]2 [ ] 3 [ ] 4 [ ] 5

[ ] MERCANTILE
[ ] RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
[ ] STORAGE [ ] S-1 Moderate [ ] S-2 Low [ ] HIGH-PILED
[ ] PARKING GARAGE [ ] OPEN [ ] ENCLOSED [ ] REPAIR GARAGE
[ ]UTILITY & MISCELLANEOUS

ACCESSORY OCCUPANCY CLASSIFICATION(S): _____
INCIDENTAL USES (Table 509): _____
This separation is not exempt as a Non-Separated Use (see exceptions).
SPECIAL USES (Chapter 4 - List Code Sections): _____
SPECIAL PROVISIONS (Chapter 5 - List Code Sections): _____
MIXED OCCUPANCY: Separation: NON SEPARATED MIXED USE Exception: _____

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

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} + \ldots \ldots = ____ \leq 1.00$$

STORY NO.	DESCR'N AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR OPEN SPACE INCREASE 1,5	(D) ALLOWABLE AREA OR UNLIMITED 2,3
1	B	2,828	9,000	6,750	15,750
1	S	2,828	9,000	6,750	15,750
---	---	---	---	---	---

1. Frontage Area Increases From Section 506.2 Are Competed Thus:
   A. Perimeter Which Fronts A Public Way Or Open Space Having 20 Ft Min. Width = 910' (F).
   B. Total Building Perimeter = 910' (P).
   C. Ratio (F/P) = 1 (F/P).
   D. W= Minimum Width Of Public Way = 30 (W)
2. Unlimited area applicable under conditions of Section 507.
3. Max. Building Area = Total No. Of Stories In The Building X D (maximum 3 stories) (506.2).
4. The Maximum Area Of Open Parking Garages Must Comply With 406.5.4. The Maximum Area Of Air Traffic Control Towers Must Comply With 412.3.1.
5. Frontage increase is based on the unsprinklered area value in Table 506.2

ALLOWABLE HEIGHT

	ALLOWABLE (TABLES 504.3 & 504.4)	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	40 (FT)	18 (FT)	---
BUILDING HEIGHT IN STORIES	2 (STORIES ABOVE GRADE PLANE)	1 (STORIES)	---

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

NC DEPT. OF INSURANCE
2018 APPENDIX B BUILDING CODE SUMMARY CONTINUED

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEP'N DIST. (FT)	RATING REQ'D	RATING PROV'D (W/ REDUCTION) *	DETAIL # AND SHEET #	DES. # FOR RATED ASS'Y	DES. # FOR RATED PENETN	DES. # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS GIRDERS, TRUSSES	≥ 30'	0	0	---	---	---	---
BEARING WALLS							
EXTERIOR							
NORTH	---	---	---	---	---	---	---
EAST	---	---	---	---	---	---	---
WEST	---	---	---	---	---	---	---
SOUTH	---	---	---	---	---	---	---
INTERIOR	---	---	---	---	---	---	---
NONBEARING WALLS AND PARTITIONS							
EXTERIOR							
NORTH	≥ 30'	0	0	---	---	---	---
EAST	≥ 30'	0	0	---	---	---	---
WEST	≥ 30'	0	0	---	---	---	---
SOUTH	≥ 30'	0	0	---	---	---	---
INTERIOR WALL & PARTITIONS		0	0	---	---	---	---
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		---	---	---	---	---	---
FLOOR CEILING ASSEMBLY		---	---	---	---	---	---
COLUMNS SUPPORTING FLOORS		---	---	---	---	---	---
ROOF CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS		---	---	---	---	---	---
ROOF CEILING ASSEMBLY		0	0	---	---	---	---
COLUMNS SUPPORTING ROOF		---	---	---	---	---	---
SHAFTS ENCLOSURES-EXIT		---	---	---	---	---	---
SHAFTS 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 NO. PERMITTING REDUCTION

PERCENTAGE OF WALL OPENING CALCULATIONS

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

LIFE SAFETY SYSTEM REQUIREMENTS

EMERGENCY LIGHTING: [X] YES [ ] NO SMOKE DETECTION SYSTEMS: [ ] YES [X] NO
EXIT SIGNS: [X] YES [ ] NO PANIC HARDWARE: [ ] YES [X] NO
FIRE ALARM: [ ] YES [X] NO

LIFE SAFETY PLAN REQUIREMENTS

G0.3

[ ] FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
[ ] ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON SITE PLAN)
[ ] EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
[x] OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
[x] OCCUPANT LOADS FOR EACH AREA
[x] EXIT ACCESS TRAVEL DISTANCES (1017)
[x] COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
[x] DEAD END LENGTHS (1020.4)
[x] CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
[x] MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)
[x] ACTUAL OCCUPANT LOAD FOR EACH DOOR
[ ] A SEPARATE SCHEMATIC PLAN INDICATING WHERE FIRE RATED FLOOR/CEILING AND/OR ROOF STRUCTURE IS PROVIDED FOR PURPOSES OF OCCUPANCY SEPARATION
[ ] LOCATION OF DOORS WITH PANIC HARDWARE (1010.1.10)
[ ] LOCATION OF DOORS WITH DELAYED EGRESS LOCKS AND THE AMOUNT OF THE 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)
[x] 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 ON TABLE NOTES THAT MAY HAVE BEEN UTILIZED REGARDING THE ITEMS ABOVE

ACCESSIBLE DWELLING UNITS (SECTION 1107) not applicable

TOTAL UNITS	ACCESSIBLE UNITS REQ'D	ACCESSIBLE UNITS PROV'D	TYPE A UNITS REQ'D	TYPE A UNITS PROV'D	TYPE B UNITS REQ'D	TYPE B UNITS PROV'D	TOTAL ACCESSIBLE UNITS PROV'D
---	---	---	---	---	---	---	---

ACCESSIBLE PARKING (SECTION 1106) EXISTING TO REMAIN

LOT OR PARKING AREA	TOTAL # OF SPACES REQ'D	TOTAL # OF SPACES PROV'D	# OF ACCESSIBLE SPACES PROVIDED REG. WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	TOTAL # ACCESSIBLE PROVIDED
---	---	---	---	---	---	---
---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---

PLUMBING FIXTURE REQUIREMENT (TABLE 403.1)

27 OCCUPANTS- 14 MALE/ 14 FEMALE

USE		WATERCLOSETS MALE	WATERCLOSETS FEMALE	WATERCLOSETS UNISEX	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	LAVATORIES UNISEX	SHOWERS/ TUBS	DRINKING FOUNTAINS REGULAR	DRINKING FOUNTAINS ACCESSIBILE
SPACE	EXIST'G	6	12	1	6	8	8	1	---	1	1
	NEW	---	---	---	---	---	---	---	---	---	---
	REQ'D	1	1	0	---	1	1	0	---	1	1

SPECIAL APPROVALS

Special Approval: (Local Jurisdiction, Dept of Insurance, OSC, DPI, DHHS, etc., describe below)

NC DEPT. OF INSURANCE
2018 APPENDIX B BUILDING CODE SUMMARY CONTINUED

ENERGY SUMMARY EXISTING TO REMAIN

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 cost for the proposed design.

Existing building envelope complies with code:_____

Exempt Building: _____ Provide code or statutory refrence:

Climate Zone: _____

Method of Compliance: _____
(If "Other" specify source here)_____

THERMAL ENVELOPE (Prescriptive method only)

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

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

Walls below grade (each assembly)
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____

Floors over unconditioned space (each assembly)
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____

Floors slab on grade
Description of assembly _____
U-Value of total assembly _____
R-Value of insulation _____
Horizontal/Vertical requirement _____
Slab heated _____

STRUCTURAL DESIGN (PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)

DESIGN LOADS: EXISTING TO REMAIN

IMPORTANCE FACTORS: WIND (I W) 1.0
SNOW (I S) 1.0
SEISMIC (I E) 1.0
LIVE LOADS: ROOF 20 psf
MEZZANINE --- psf
FLOOR 100 psf
GROUND SNOW LOAD: 15 psf
WIND LOAD: BASIC WIND SPEED 115 mph (ASCE-7)
EXPOSURE CATEGORY

SEISMIC DESIGN CATEGORY [ ] A [ ] B [X] C [ ] D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:
OCCUPANCY CATEGORY (TABLE 1604.5) [ ] I [X] II [ ] III [ ] IV
SPECTRAL RESPONSE ACCELERATION S_S 272 %g S_1 105 %g
SITE CLASSIFICATION (ASCE 7) [ ] A [ ] B [ ] C [ ] D
--- Field Test X Presumptive --- Historical Data

BASIC STRUCTURAL SYSTEM (check one)
------ BEARING WALL ------ DUAL W/SPECIAL MOMENT FRAME
X BUILDING FRAME ------ DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL
------ MOMENT FRAME ------ INVERTED PENDULUM
ANALYSIS PROCEDURE X SIMPLIFIED ---- EQUIVALENT LATERAL FORCE
---- DYNAMIC

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED [X] YES [ ] NO
LATERAL DISIGN CONTROL: EARTHQUAKE [ ] WIND [X]
SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) NA psf
PRESUMPTIVE BEARING CAPACITY 2,500 psf
PILE SIZE, TYPE, AND CAPACITY NA

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REGISTERED ARCHITECT
11075
NORTH CAROLINA
RALEIGH, NC

Ginger S. Summer
12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

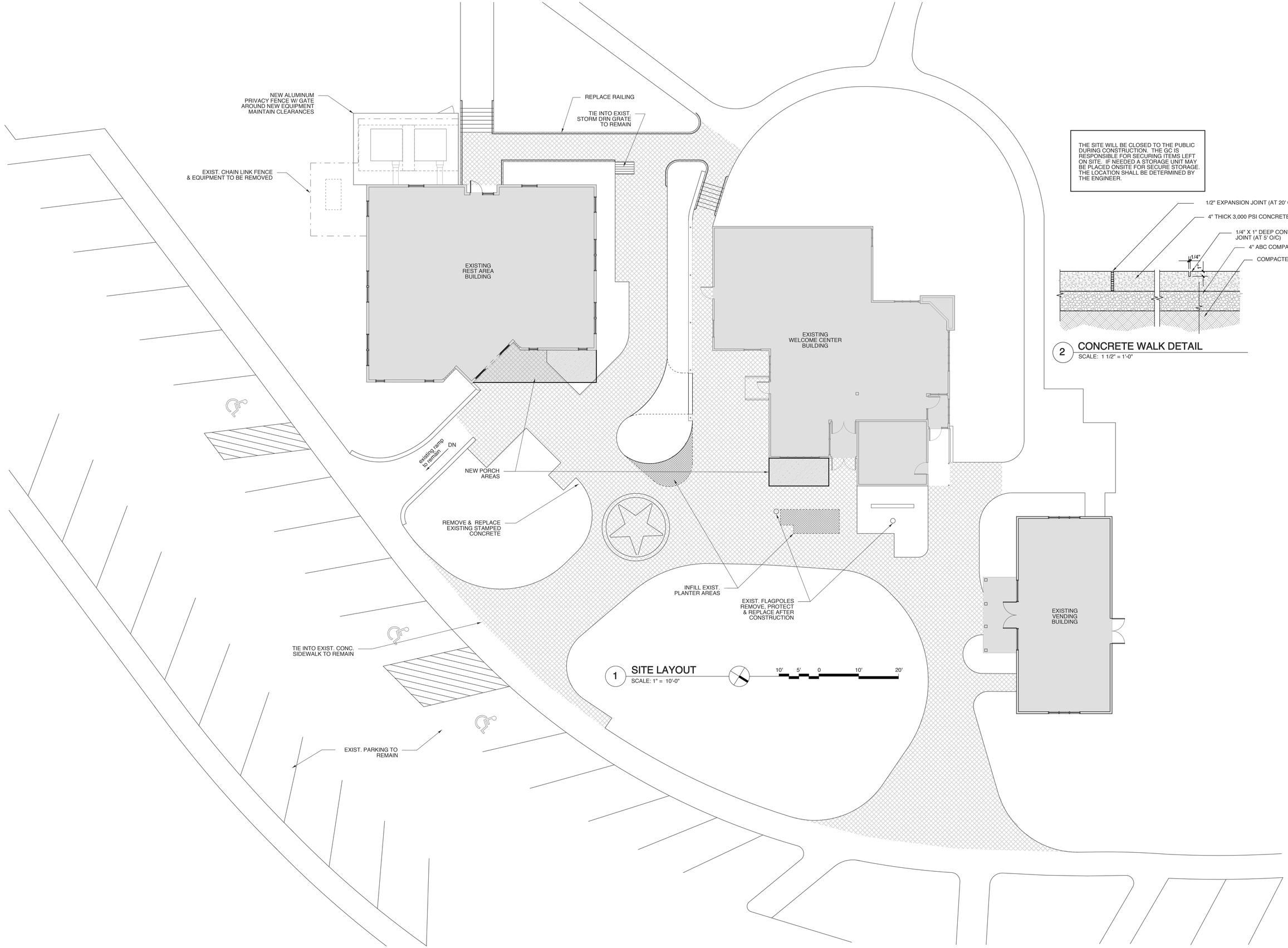
DRAWING TITLE
APPENDIX B

SHEET 2 OF 22

G0.1

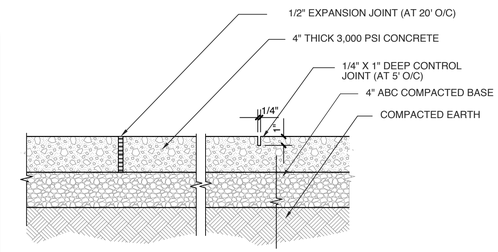
PLOT DATE 12/13/25
REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.



1 SITE LAYOUT
SCALE: 1" = 10'-0"

THE SITE WILL BE CLOSED TO THE PUBLIC DURING CONSTRUCTION. THE GC IS RESPONSIBLE FOR SECURING ITEMS LEFT ON SITE. IF NEEDED A STORAGE UNIT MAY BE PLACED ONSITE FOR SECURE STORAGE. THE LOCATION SHALL BE DETERMINED BY THE ENGINEER.



2 CONCRETE WALK DETAIL
SCALE: 1 1/2" = 1'-0"

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PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
SITE LAYOUT

SHEET 3 OF 22

G0.2

PLOT DATE

REVISION

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

EGRESS REQ. & CODE REF.

BUSINESS USE
100 SF PER PERSON

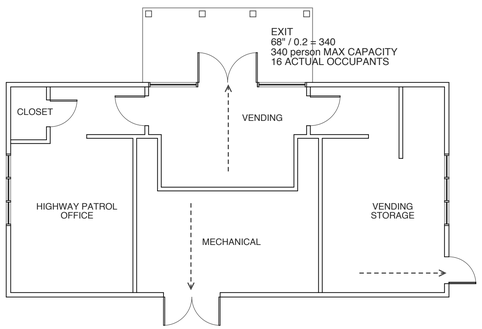
1,600 SF / 100 = 16 OCCUPANTS

16 X 0.2 = 3.2" CLR REQ.

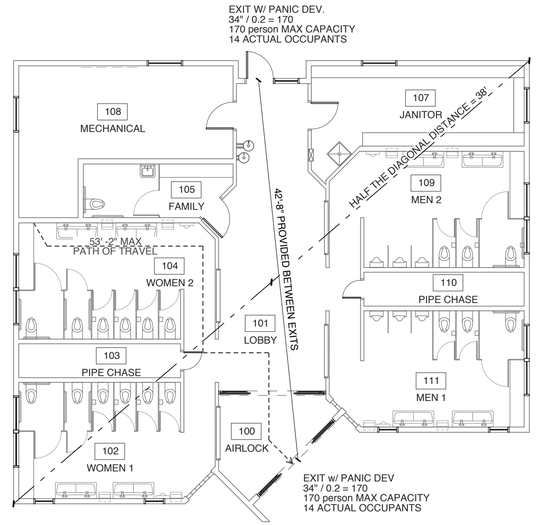
DOORS TO HAVE 32" MIN. CLR. PER 404.2.2 OF ANSI A117.1

THE CLEAR WIDTH OF INTERIOR ACCESSIBLE ROUTE IS 36" MIN. PER 403.5 OF ANSI A117.1

SINGLE EXIT SPACE MAX TRAVEL DIST = 75'



3 LIFE SAFETY - VENDING BLDG
SCALE: 1/8" = 1'-0"



1 LIFE SAFETY - REST ROOM BLDG
SCALE: 1/8" = 1'-0"

WALL LEGEND

	EXIST. EXT. WALL W/ SIDING AND WOOD FRAMING
	EXIST. INT. WALL WOOD FRAMING
	NEW EXT. WALL W/ SIDING & WOOD FRAMING

EGRESS REQ. & CODE REF.

BUSINESS USE
100 SF PER PERSON

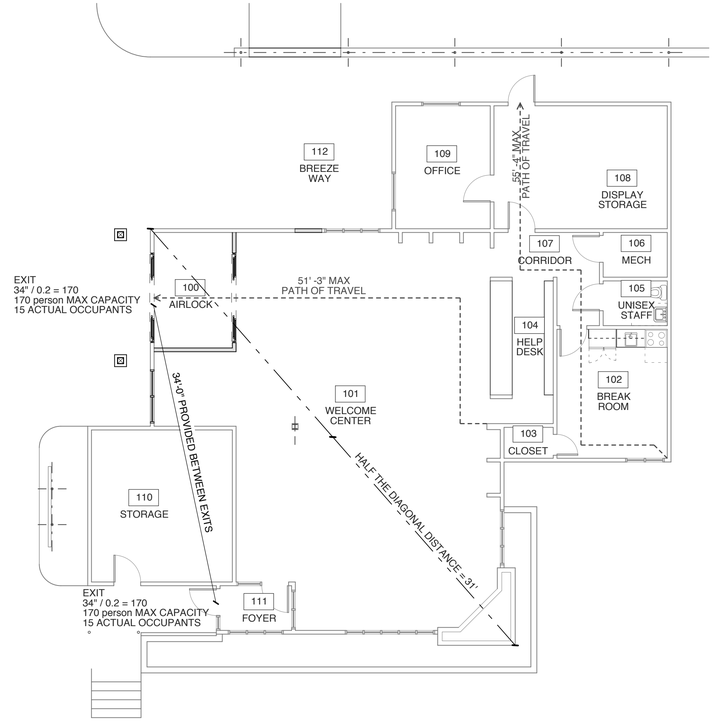
2,614 SF / 100 / 2 EXITS = 14 OCCUPANTS

14 X 0.2 = 2.8" CLR REQ.

DOORS TO HAVE 32" MIN. CLR. PER 404.2.2 OF ANSI A117.1

THE CLEAR WIDTH OF INTERIOR ACCESSIBLE ROUTE IS 36" MIN. PER 403.5 OF ANSI A117.1

MAX PATH OF TRAVEL = 200FT
COMMON PATH OF TRAVEL = 75FT



2 LIFE SAFETY WELCOME CTR. BLDG
SCALE: 1/8" = 1'-0"

EGRESS REQ. & CODE REF.

BUSINESS USE
100 SF PER PERSON

2,828 SF / 100 / 2 EXITS = 15 OCCUPANTS

15 X 0.2 = 3" CLR REQ.

DOORS TO HAVE 32" MIN. CLR. PER 404.2.2 OF ANSI A117.1

THE CLEAR WIDTH OF INTERIOR ACCESSIBLE ROUTE IS 36" MIN. PER 403.5 OF ANSI A117.1

MAX PATH OF TRAVEL = 200FT
COMMON PATH OF TRAVEL = 75FT

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12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
LIFE SAFETY

SHEET 4 OF 22

G0.3

PLOT DATE 12/13/25
REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

DEMOLITION & CONSTRUCTION NOTES

ALL MATERIALS SHALL BE NEW AND OF QUANTITY SPECIFIED, EXCEPT WHERE RECLAIMED MATERIAL IS INDICATED FOR USE. WORKMANSHIP SHALL AT ALL TIMES BE OF A GRADE ACCEPTED AS THE BEST PRACTICE OF THE PARTICULAR TRADE INVOLVED, AND AS STIPULATED IN WRITTEN STANDARDS OF RECOGNISED ORGANIZATIONS OR INSTITUTES OF THE RESPECTIVE TRADES EXCEPT AS EXCEEDED OR QUALIFIED BY THE SPECIFICATIONS.

ITEMS RESULTING FROM THE DEMOLITION AND ITEMS WHICH ARE NOT TO BE RETURNED TO THE OWNER AS NOTED IN THE CONTRACT DOCUMENTS, SHALL BE REMOVED FROM THE SITE, AS THE WORK PROGRESSES, AND DISPOSED OF IN A LEGAL MANER. .

THE CONTRACTOR SHALL REVIEW EACH PHASE OF THE WORK PRIOR TO PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS THAT WILL RESULT IN CHANGES TO THE WORK.

THE EXISTING STRUCTURE SHALL NOT BE ALTERED EXCEPT AS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT CUT, NOTCH, BLOCK OR RELOCATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.

AREA OUTSIDE OF AREA OF WORK TO REMAIN CLEAR AND CLEAN OF DEBRIS, EQUIPMENT ETC. AT ALL TIMES..

THE WELCOME CENTER BUILDING TO REMAIN OCCUPIED OUTSIDE THE AREA OF WORK. CONSTRUCTION NOT TO INTERFERE WITH DAILY OPERATIONS OF BUILDING OCCUPANTS OR VISITORS. CONSTRUCTION SHALL NOT CAUSE UNSAFE CONDITIONS FOR BUILDING OCCUPANTS OR VISITORS.

IF CONSTRUCTION REQUIRES AN INTERRUPTION OF SERVICES TO THE BUILDING, THE OWNER AND ARCHITECT SHALL BE NOTIFIED AND AN APPROPRIATE TIMING WILL BE AGREED UPON.

WALL LEGEND

- EXIST. EXT. WALL W/ SIDING AND WOOD FRAMING
- EXIST. INT. WALL WOOD FRAMING
- EXIST. TO BE REMOVED

SCOPE OF WORK NOTES

-REMOVE EXISTING WALL & FLOOR TILE, REPAIR SUBSTRATE AS NEEDED

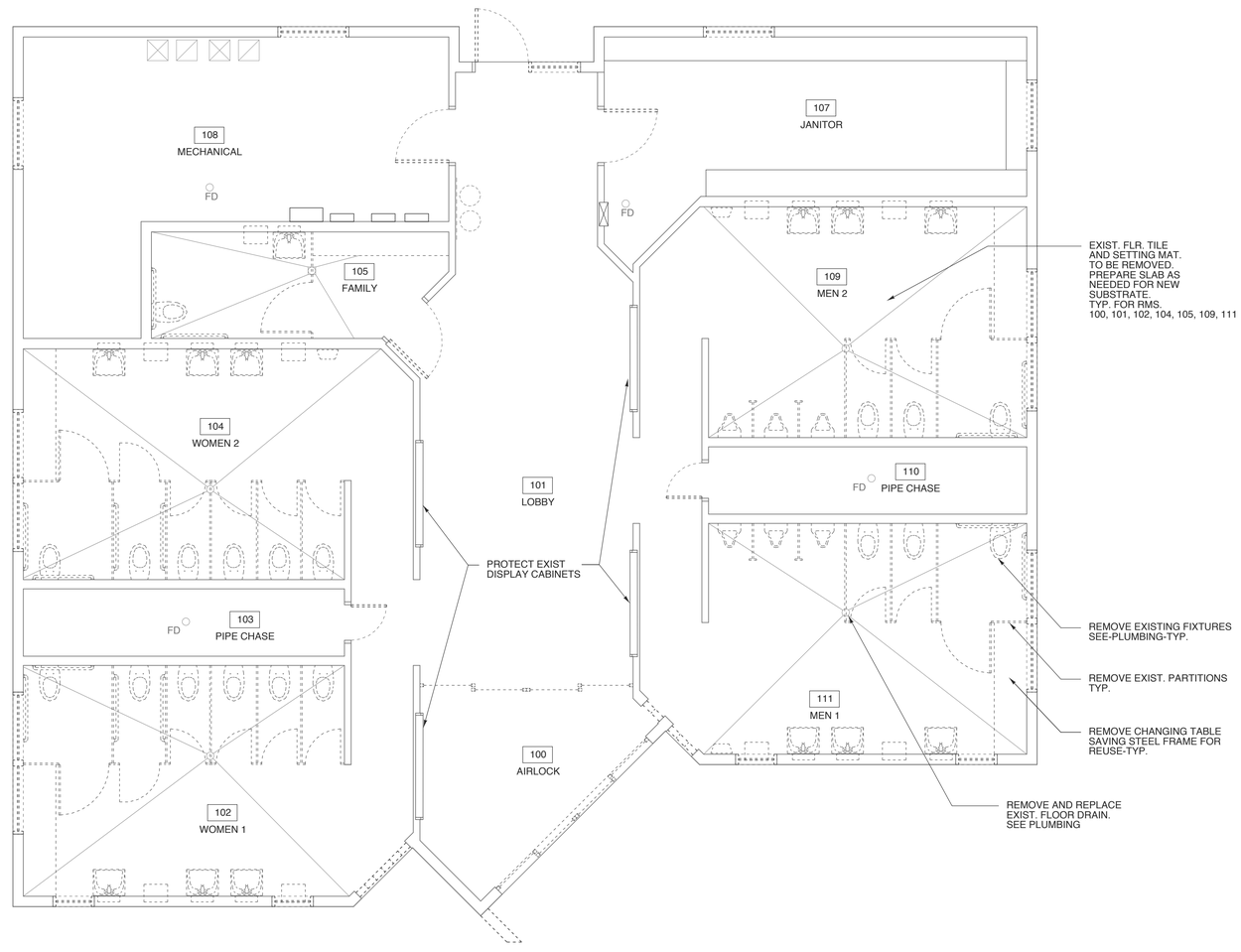
-DEMO EXISTING PLUMBING FIXTURES, INCLUDING CARRIERS

-DEMO EXISTING TOILET ACCESSORIES

-DEMO EXISTING TOILET PARTITIONS

-REMOVE EXISTING DOORS, FRAMES & HARDWARE

-REMOVE EXIST. CHANGING TABLE.



1 DEMO PLAN - REST AREA BUILDING

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

5' 4' 3' 2' 1' 0 5'

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PROJECT TITLE

POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.

2404c

DRAWING TITLE

RA DEMO PLAN

SHEET 5 OF 22

A1.0

PLOT DATE 12/13/25

REVISION ---

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DOOR SCHEDULE

MARK	DOOR SIZE	DOOR MAT'L	DOOR TYPE	FRAME TYPE	FRAME DETAILS	HDWR SET NO.	REMARKS
1	12'-0" x 7'-0" x 1-3/4"	ALUM	A	A	---	1	---
2	12'-0" x 7'-0" x 1-3/4"	ALUM	A	A	---	1	---
3	3'-0" x 7'-0" x 1-3/4"	ALUM	B	B	---	5	---
4	3'-0" x 7'-0" x 1-3/4"	SC WD	D	C	---	2	OBSCURE GLASS
5	3'-0" x 7'-0" x 1-3/4"	SC WD	C	C	---	3	---
6	3'-0" x 7'-0" x 1-3/4"	SC WD	C	C	---	3	---
7	2'-0" x 7'-0" x 1-3/4"	SC WD	E	C	---	4	---
8	2'-0" x 7'-0" x 1-3/4"	SC WD	E	C	---	4	---
	see also notes on A3.1 for an additional double door at vending						

NOTES:

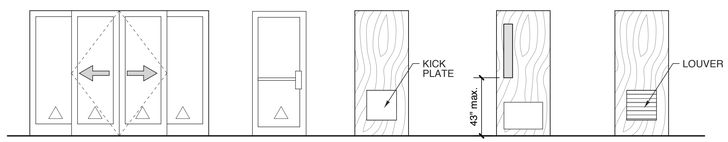
- COORDINATE KEYING OF HARDWARE WITH OWNER
- DOOR HANDLES TO BE LEVER HANDLE
- ALL DOORS TO MEET NCSBC SECTION 1609.1.2
- MATCH EXISTING FINISHES-TYP.

-NEW ENTRANCE DOORS TO MEET ENERGY REQ.
U-FACTOR = 0.77 MAX.
SHCG = 0.25 MAX.

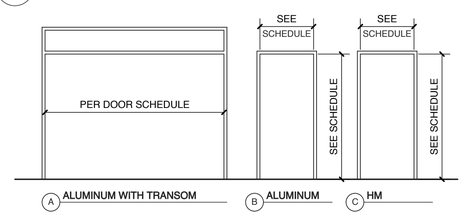
HARDWARE SETS

1. AUTOMATIC SLIDING W/EMERGENCY BREAK AWAY OPERATION-CLASSROOM FUNCTION
2. PASSAGE SET
3. STOREROOM FUNCTION LOCKSET
4. ADA CUP PULL (COL-405-15CC OR EQUAL)
5. PUSH / PULL HARDWARE

SEE SPEC FOR MORE INFORMATION



3 DOOR TYPES
SCALE: 1/4" = 1'-0"
INDICATES TEMPERED GLASS



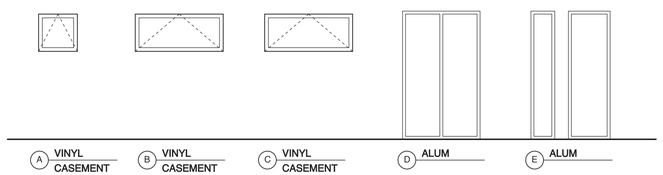
2 DOOR FRAME TYPES
SCALE: 1/4" = 1'-0"
INDICATES TEMPERED GLASS

WINDOW SCHEDULE

MARK	W SIZE H	TYPE	MATERIAL	GLASS	REMARKS
A	2'-1" x 2'-1"	A	VINYL	1" INSUL. - OBSCURE	CASEMENT-COLOR TBD
B	3'-11" x 2'-1"	B	VINYL	1" INSUL. - OBSCURE	CASEMENT-COLOR TBD
C	3'-11" x 2'-1"	C	VINYL	1" INSUL. - CLEAR	CASEMENT-COLOR TBD
D	4'-0" x 7'-2"	D	ALUM	ARCH. RESIN PANELS	ALUMINUM FRAME
E	2' & 1'-4" x 7'-2"	E	ALUM	ARCH. RESIN PANELS	ALUMINUM FRAME

NOTES:
-SEE WINDOW TYPE ELEVATIONS AND DETAILS.
-DIMENSIONS ARE NOMINAL.
-GLASS TO MEET NC ENERGY CODE-SEE COVER
-ALL WINDOWS TO MEET NCSBC SECTION 1609.1.2

-PROVIDE CONTINUOUS BEAD OF SILICONE CAULK BEHIND ALL NAIL FINS BEFORE INSTALLING NEW WINDOWS PER MANF. SPEC.



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

KEYED NOTES

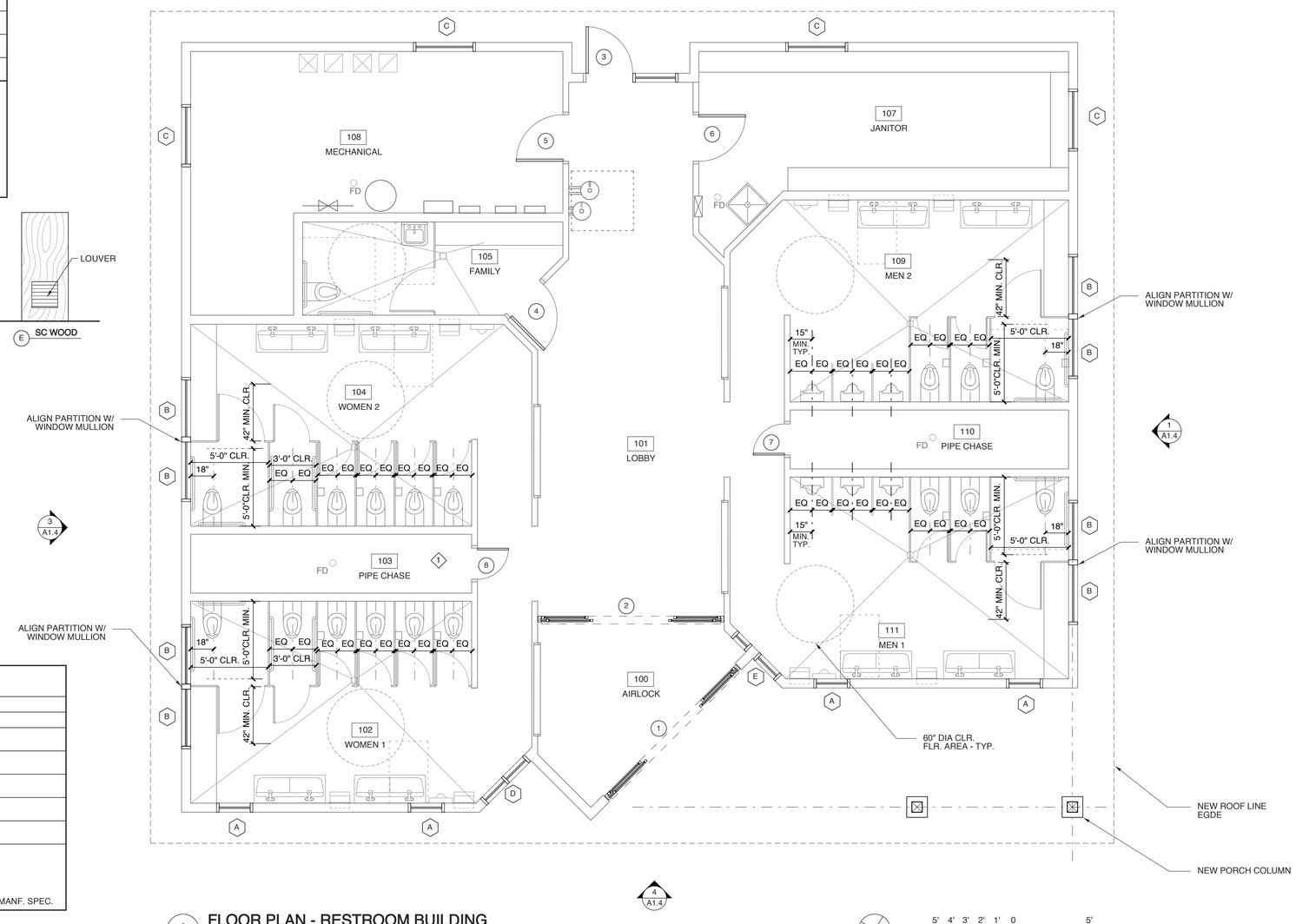
1. PC & EC TO COORDINATE HEIGHTS OF VALVES & SENSOR POWER BOX FOR SERVICABILITY. ELECTRICAL BOX TO HAVE REMOVABLE COVER FOR SERVICABILITY FROM CHASE SIDE.

NOTES

1. CONTRACTOR TO SUPPLY ALL BLOCKING NEEDED TO SUPPORT REQUIRED RESTROOM ITEMS UNLESS OTHERWISE NOTED OR STATED PER MANF.
2. VERIFY ALL ROUGH OPENING DIMENSIONS WITH MANUFACTURERS REQUIREMENTS
3. SEE SHEET A1.3 FOR FINISH INFORMATION

SCOPE OF WORK NOTES

-REMOVE AND REPLACE EXISTING WALL TILE
-REMOVE AND REPLACE EXISTING FLOOR TILE & VCT
-REMOVE AND REPLACE EXISTING TOILET PARTITIONS AND ACCESSORIES.
-REMOVE AND REPLACE EXISTING LIGHTING WITH NEW LED FIXTUES. SEE ELECTRICAL
-RETAPE & POINT UP EXIST. DW. PAINT ALL INTERIOR WALLS, & CEILINGS
-REPLACE EXISTING WOOD DOORS AND REPLACE HANDLESETS SEE DOOR SCHEDULE
-REMOVE AND REPLACE ALL BUILDING SIGNAGE
-REMOVE AND REPLACE ALL PLUMBING FIXTURES. SEE PLUMBING DWGS.
-REMOVE AND REPLACE ALL WINDOWS & TRIM



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

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12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
REST AREA PLAN

SHEET 6 OF 22

A1.1

PLOT DATE 12/13/25
REVISION ---

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ROOM FINISH SCHEDULE

MARK	ROOM NAME	FLOOR	BASE	WALL N	WALL E	WALL S	WALL W	WAINSCOT	CEILING MATERIAL	REMARKS / NOTES
100	AIRLOCK	POR. TILE	POR. TILE	PAINT EXIST.				---	REPAIR CRACKS PAINT EXIST.	---
101	LOBBY	POR. TILE	POR. TILE	PAINT EXIST.				---	REPAIR CRACKS PAINT EXIST.	---
102	WOMEN 1	POR. TILE	POR. TILE	PAINT EXIST.				PANEL SINK WALL	REPAIR CRACKS PAINT EXIST.	---
103	PIPE CHASE	---	---	PAINT EXIST				---	---	---
104	WOMEN 2	POR. TILE	POR. TILE	PAINT EXIST.				PANEL SINK WALL	REPAIR CRACKS PAINT EXIST.	---
105	FAMILY	POR. TILE	POR. TILE	PAINT EXIST.				PANEL SINK WALL	REPAIR CRACKS PAINT EXIST.	---
106	---	---	---	---				---	---	---
107	STORAGE / JANITOR	LVT	RUBBER	PAINT EXIST.				FRP @ MOP SINK	REPAIR CRACKS PAINT EXIST.	---
108	ELECTRICAL / MECHANICAL	existing	existing	PAINT EXIST.				---	REPAIR CRACKS PAINT EXIST.	---
109	MEN 2	POR. TILE	POR. TILE	PAINT EXIST				PANEL SINK WALL	REPAIR CRACKS PAINT EXIST.	---
110	PIPE CHASE	---	---	PAINT EXIST.				---	---	---
111	MEN 1	POR. TILE	POR. TILE	PAINT EXIST				PANEL SINK WALL	REPAIR CRACKS PAINT EXIST.	---

SIGNAGE LEGEND

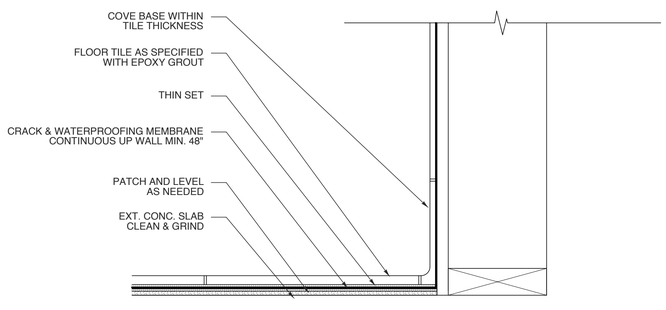
A	WOMEN-1 PC. MILLED ALUM PER 2/A3
B	MEN-1 PC. MILLED ALUM PER 3/A3
C	FAMILY-1 PC. MILLED ALUM PER 1/A3
D	WOMEN-INDIVIDUAL LETTERS (6")
E	MEN-INDIVIDUAL LETTERS (6")
F	JANITOR-1 PC. MILLED ALUM PER 8/A3
G	ELECTRICAL-1 PC. MILLED ALUM SIM TO 6/A3
H	NO SMOKING-1 PC. MILLED ALUM SIM TO 6/A3

TOILET ACCESSORY SCHEDULE

MARK	ITEM	MOUNT	MARK	ITEM	MOUNT
A	SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER (B-4288)	28" MIN. 48" MAX. A.F.S.	H	RECESSED PAPER TOWEL DISP. AND WASTE RECEPTACLE (B-3944)	RE: ELEV.
B	AUTOMATIC HANDS FREE LIQUID SOAP DISPENSER (MAC FAUCETS-ASD-13SS)	42" MAX. A.F.S.	J	WELDED FRAME MIRROR (B-2908-1828)	RE: ELEV.
C	36" HORIZONTAL GRAB BAR (B-6806.99 X 36)	33"-36" A.F.S.	K	WELDED FRAME MIRROR (B-2908-1860)	RE: ELEV.
D	42" HORIZONTAL GRAB BAR (B-6806.99 X 42)	33"-36" A.F.S.	L	AUTOMATIC HAND DRYER EXCEL XLERATOR XL-SB	48" A.F.S.
E	18" VERTICAL GRAB BAR (B-6806.99 X 18)	RE: ELEV.	M	SS MOP & BROOM HOLDER (B-223 X 24)	60"-72" A.F.S.
F	RECESSED SANITARY NAPKIN DISPOSAL (B-4353)	25"-30" A.F.S.	N	RECESSED FOLDED PAPER TOWEL DISP. AND WASTE RECEPTACLE (B-43944) (ALTERNATE FOR FAMILY)	RE: ELEV.
G	PARTITION MOUNTED SANITARY NAPKIN DISPOSAL (B-4354)	25"-30" A.F.S.			

MANUFACTURER: BOBRICK WASHROOM EQUIPMENT U.N.O. OR APPROVED EQUAL-SEE SPECIFICATION
FINISH: SATIN STAINLESS STEEL

NOTE: GC TO INSTALL BLOCKING FOR ALL TOILET ACCESSORIES AND TOILET PARTITIONS AS REQ'D



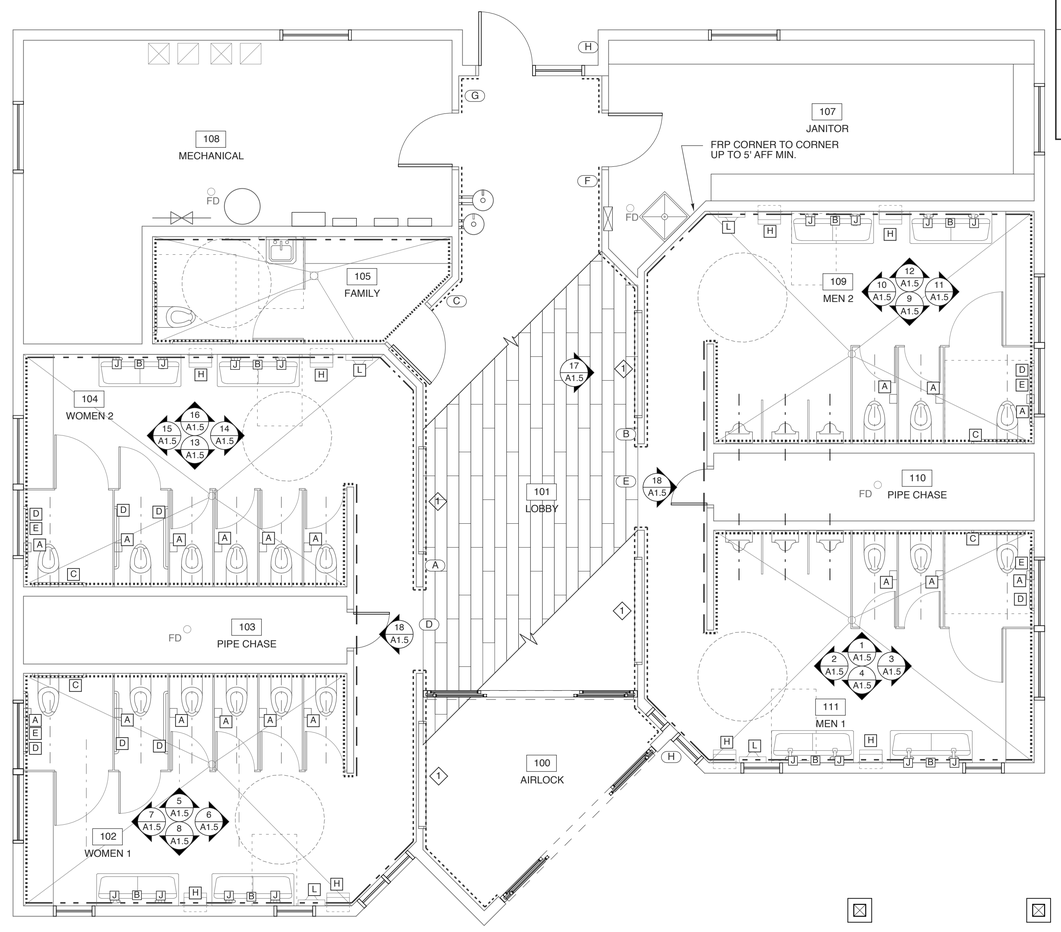
2 FLOOR TILE DETAIL
SCALE: 3" = 1'-0"

TILE NOTES

1. WALL TILE TO BE APPLIED TO CEMENT BOARD AS RECOMMENDED BY MANUFACTURER
2. GROUT JOINTS TO BE 1/8".
3. ALL GROUT TO BE EPOXY. CLEAN RESIDUE IN SMALL AREAS CLEAN SUCH THAT NO HAZE TO REMAIN.
4. CAULK ALL INSIDE CORNERS AT TILE
5. MAINTAIN EXIST. CONTROL JTS. IN TILE.
6. STAGGER TILE PATTERN AT 1/3 TILE LENGTH.
7. PLAN LAYOUT TO MINIMIZE TILES LESS THAN 1" LAYOUT ON PLAN FOR REFERENCE ONLY
8. LIPPAGE TOLERANCE IS 1/32". KEEP TO MINIMUM.

KEYED NOTES

1. REFINISH EXIST. DISPLAY CASES



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

5' 4' 3' 2' 1' 0 5'

FINISH LEGEND

WALL

DEKTON BY COSENTINO PANELS
VERTICAL FLOOR TO CEILING
COLOR: ENTZO 22 NATURAL

VERMONT
HORIZONTAL STACK 12X24
COLOR: CREAM
UP TO 72" AFF
ABOVE: AGROB BUCHTAL
CRAFT AMBER FLAMED (9025-2120)
VERTICAL STACK-2 COURSES (2.5X10)

COVENTRY 3X16
HERRINGBONE PATTERN
COLOR: PINE GREEN

COCOON BY CAESAR
VERTICAL PLUS HORZ. BAND
COLOR: BLISS 8X48

FLOOR

OAK LANE
1/3 STAGGER
COLOR: NOCE 8X48

COVE TRANSITION WHERE WALL TILE/PANELS MEET FLOOR TILE EQUAL TO SCHLUTER DILEX-AHK SATIN ALUMINUM-TYP.

WHERE WALL TILE DOES NOT EXTEND TO CEILING, A QUARTER-ROUND TRANSITION TO BE USED AS EDGE PROTECTION EQUAL TO SCHLUTER RONDOEC-DB SATIN ALUMINUM-TYP.

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12/13/2025

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PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
REST AREA FINISH PLAN

SHEET 7 OF 22

A1.2

PLOT DATE 12/13/25
REVISION ---

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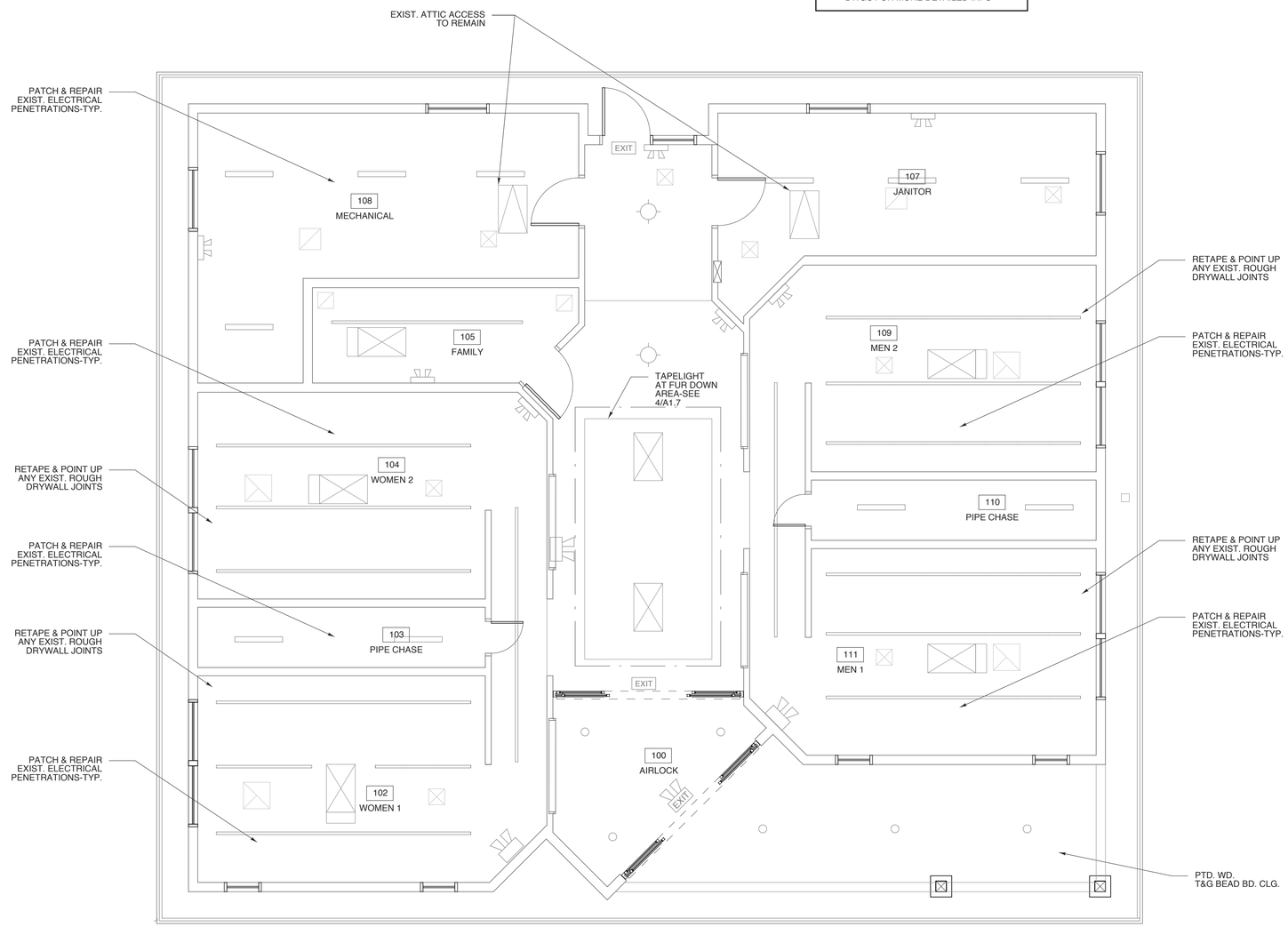
RCP LEGEND

- LED LIGHT
- SKYLIGHT
- CAN LIGHT
- HVAC
- EMER. LIGHT

SEE ELECTRICAL & MECHANICAL DWGS FOR MORE DETAILED INFO



1 REFLECTED CEILING PLAN - RESTROOM BUILDING

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

5' 4' 3' 2' 1' 0 5'

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I-26
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PROJECT NO.
2404c

DRAWING TITLE

REST AREA REFLECTED CEILING PLAN

SHEET 8 OF 22

A1.3

PLOT DATE 12/13/25
REVISION ---

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KEYED NOTES

1. REMOVE EXISTING SHINGLES & UNDERLAYMENT. REPLACE ANY DAMAGED SUBSTRATE WITH LIKE MATERIALS.
2. REMOVE EXISTING SIDING & HOUSEWRAP. REPLACE ANY DAMAGED SUBSTRATE WITH LIKE MATERIALS.
3. REMOVE EXISTING WINDOWS, EXTERIOR DOORS & GABLE VENTS ALONG WITH FLASHING. PROTECT OPENINGS AS NEEDED
4. REMOVE EXISTING GUTTERS & DOWNSPOUTS ALSO REMOVE EXISTING FASCIA & SOFFIT

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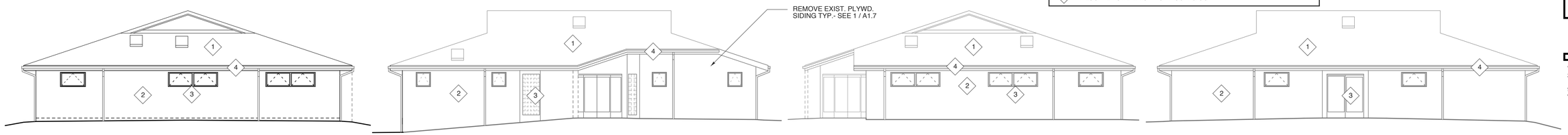
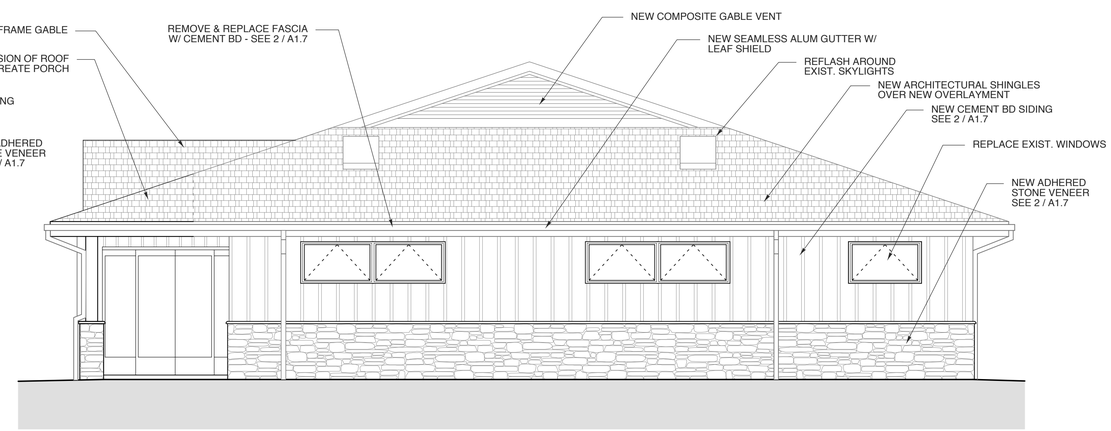
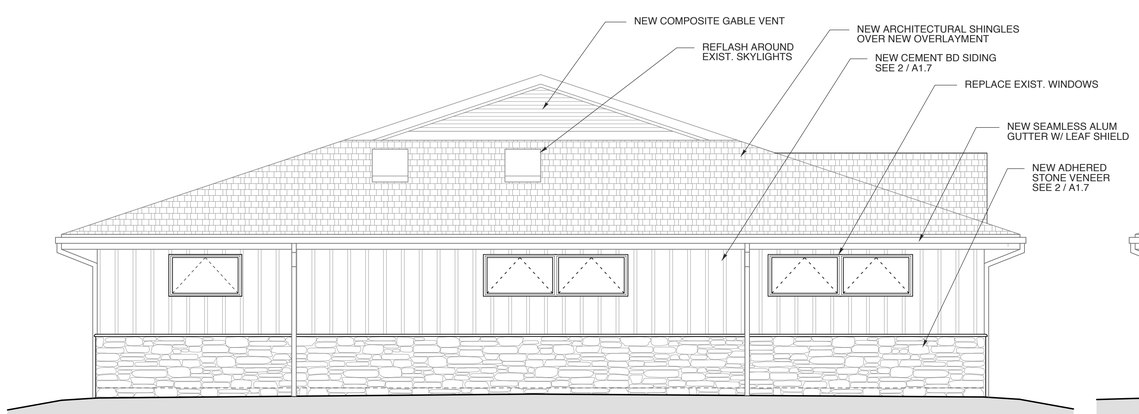


5 EXIST. ELEVATIONS-DEMO
SCALE: 1/8" = 1'-0"

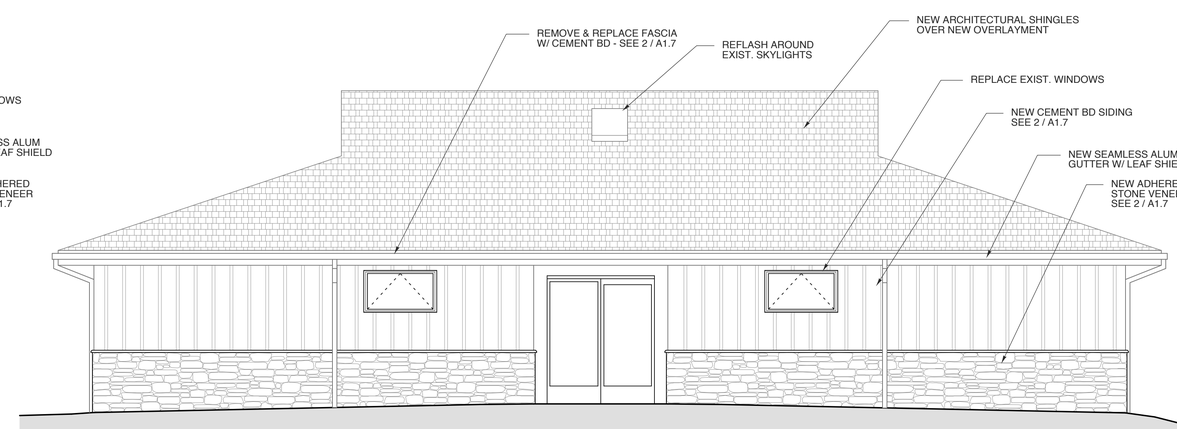
4 EAST ELEVATION
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'



1 NORTH ELEVATION
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'



3 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'



2 WEST ELEVATION
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'

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DRAWING TITLE
REST AREA ELEVATIONS

SHEET 9 OF 22

A1.4

PLOT DATE 12/13/25
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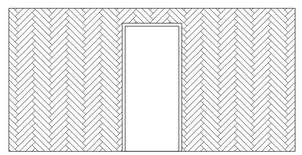
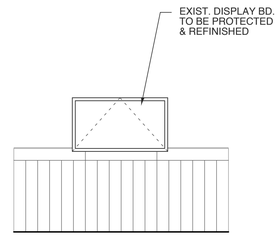
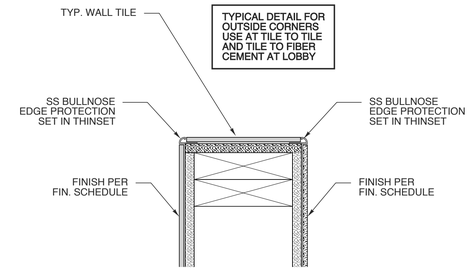


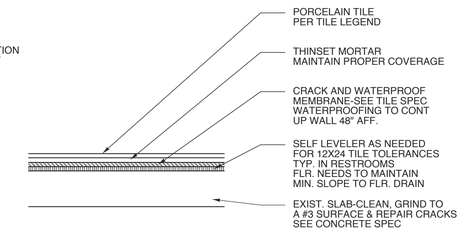
18 TYP. TILE LAYOUT @ CHASE DOOR
SCALE: 1/4" = 1'-0"



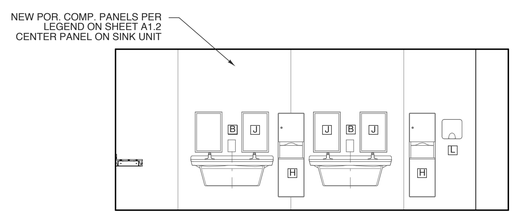
17 LOBBY WALLS-TYP. WAINSCOT
SCALE: 1/4" = 1'-0"



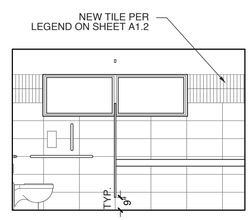
19 OUTSIDE CORNER/END WALL
SCALE: 3"= 1'-0"



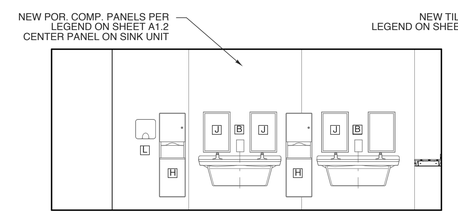
20 SLAB REPAIR/PREP
SCALE: NTS



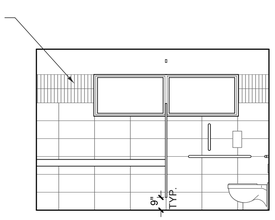
16 ELEVATION - 104 WOMEN 2
SCALE: 1/4" = 1'-0"



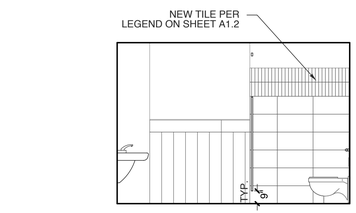
15 RM. 104 WOMEN 2
SCALE: 1/4" = 1'-0"



12 RM 109 MEN 2 - ELEV
SCALE: 1/4" = 1'-0"



11 RM. 109 MEN 2
SCALE: 1/4" = 1'-0"



14 RM. 104 WOMEN 2
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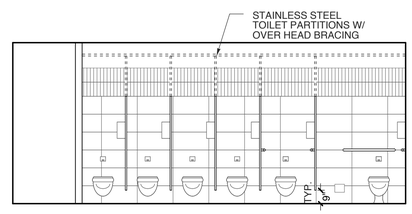
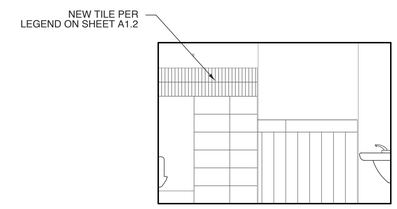


13 RM 104 WOMEN 2 ELEV
SCALE: 1/4" = 1'-0"



10 RM. 109 MEN 2
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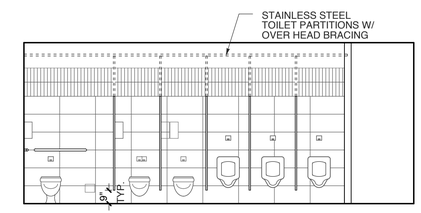
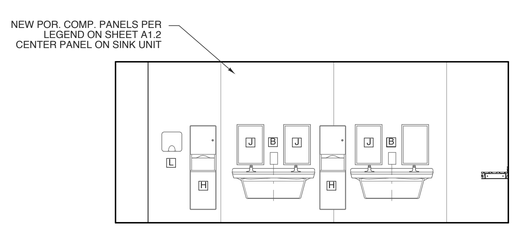
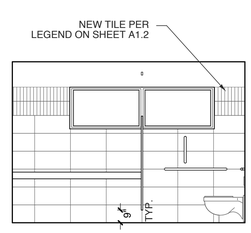


9 RM 109 MEN ELEV
SCALE: 1/4" = 1'-0"



8 RM 102 WOMEN ELEV
SCALE: 1/4" = 1'-0"



7 RM. 102 WOMEN
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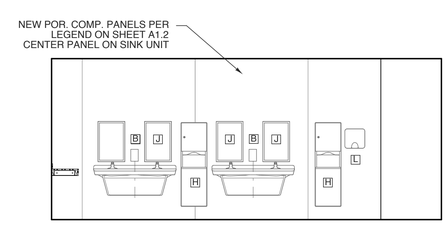
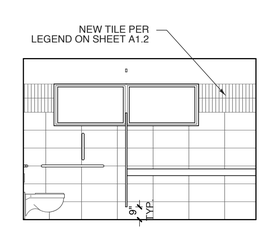
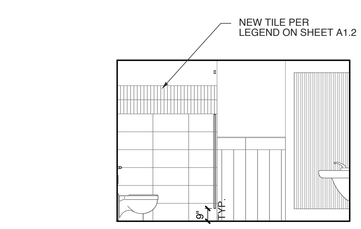


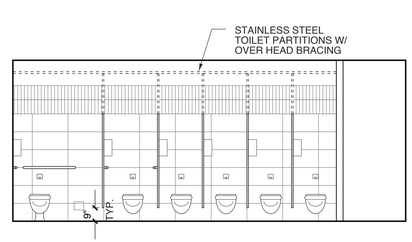
4 RM 111 MEN - ELEV
SCALE: 1/4" = 1'-0"



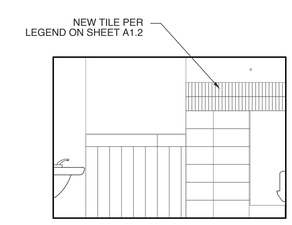
3 RM. 111 MEN
SCALE: 1/4" = 1'-0"



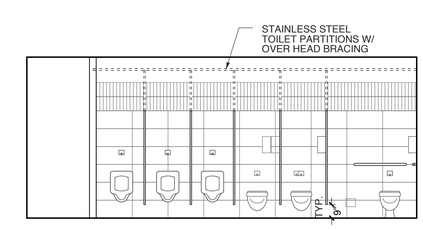
6 RM. 102 WOMEN
SCALE: 1/4" = 1'-0"



5 RM 102 WOMEN ELEV
SCALE: 1/4" = 1'-0"



2 RM. 111 MEN
SCALE: 1/4" = 1'-0"



1 RM 111 MEN ELEV
SCALE: 1/4" = 1'-0"

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12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY
WELCOME CENTER
& REST AREA
I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

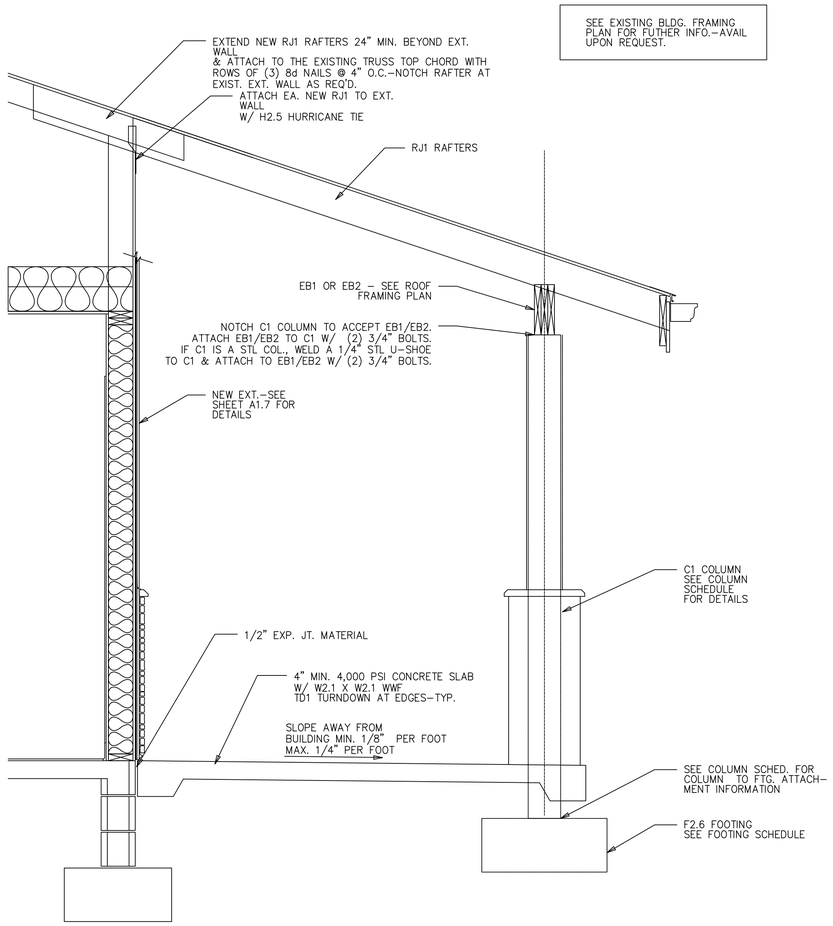
DRAWING TITLE
REST AREA
int. elevations

SHEET 10 OF 22

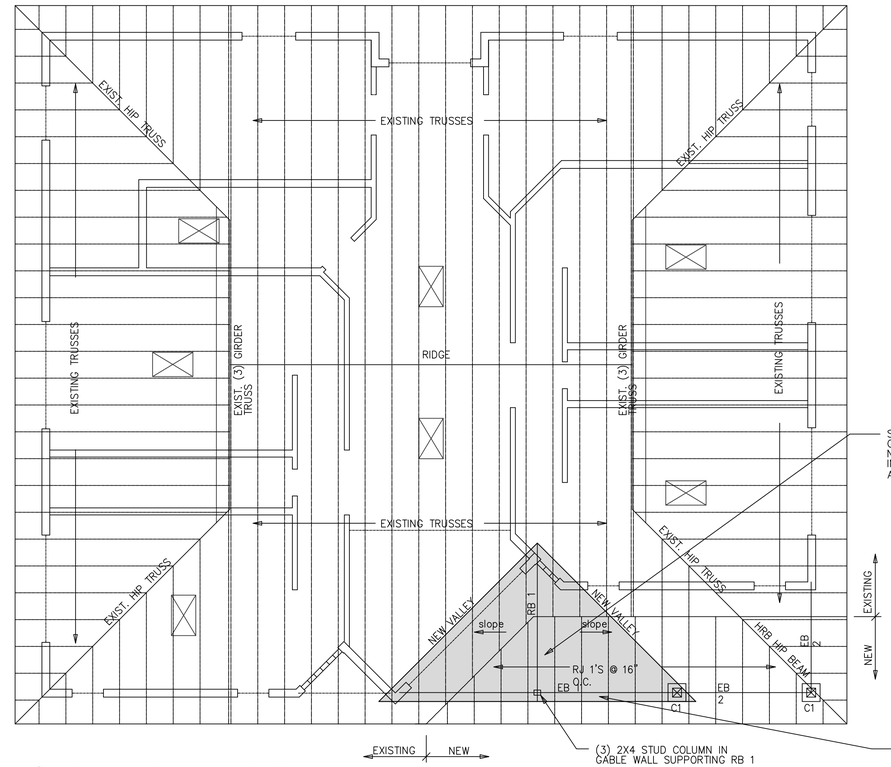
A1.5

PLOT DATE 12/13/25
REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.



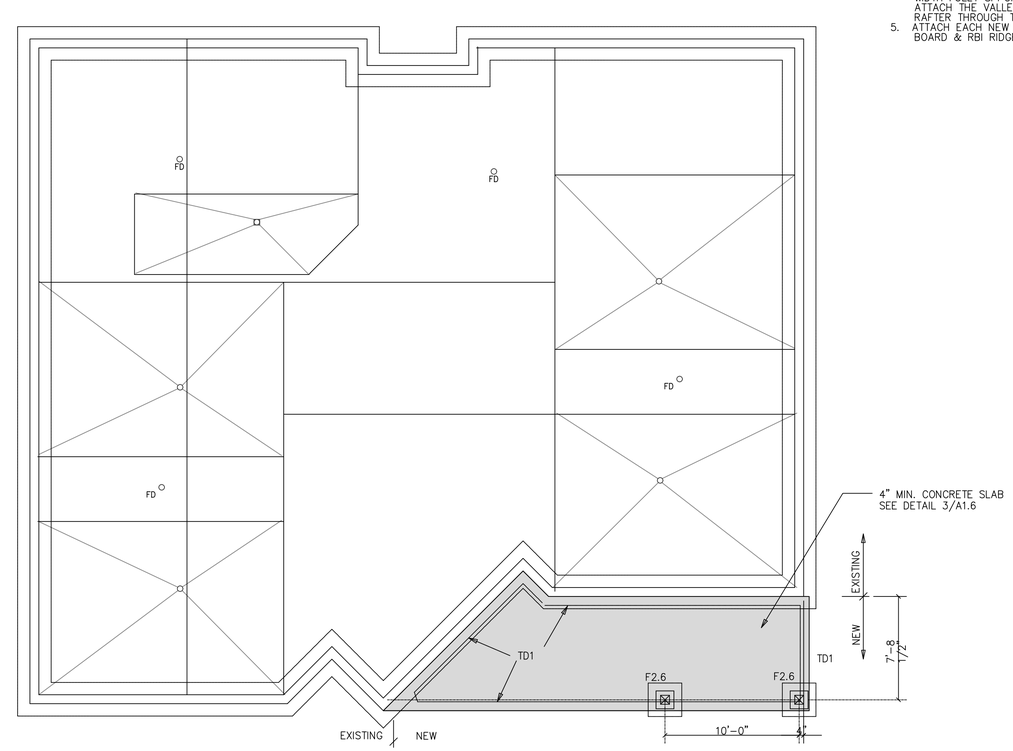
3 PROPOSED SECTION
SCALE: 3/4" = 1'–0"



2 FRAMING PLAN – RESTROOM BUILDING
SCALE: 3/16" = 1'–0"

ROOF OVERBUILD NOTES:

1. REMOVE EXIST. SHINGLES IN THE OVERBUILD AREA
2. REPAIR ANY DAMAGED SHEATHING. EXIST. SHEATHING REMAINS IN PLACE.
3. NEW RBW RIDGE BEAM IS SUPPORTED BY THE NEW STUD COLUMN AS SHOWN.
4. INSTALL 2X VALLEY BOARDS SUCH THAT THE WIDTH FULLY SPPORTS THE NEW RGJ RAFTERS. ATTACH THE VALLEY BOARDS TO EACH EXIST. RAFTER THROUGH THE SHEATHING.
5. ATTACH EACH NEW RGJ RAFTER TO THE VALLEY BOARD & RBI RIDGE BEAM PER CODE



1 FOUNDATION PLAN – RESTROOM BUILDING
SCALE: 3/16" = 1'–0"

FOOTING SCHEDULE

MK#	SIZE	REINFORCING	NOTE
TD1	8" WIDE X 8" DEEP	(2) #4 CONTINUOUS	TURN DOWN
F2.6	2'–6" X 2'–6" X 12"	(4) #4 EACH WAY	C1 COLUMN & PIER FTG.

NOTES:
1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FTG.

ROOF FRAMING SCHEDULE

MK#	SIZE	MATERIAL	GRADE	RXN SMALL	RXN LARGE	NOTE
RB1	(2) 2x10	SPF	No. 1/No. 2	1.3	1.3	1
GRJ	2x6	SPF	No. 1/No. 2	0.2	0.2	1
HRB	2x6	SPF	No. 1/No. 2	0.3	0.3	1
RJ1	2x6	SPF	No. 1/No. 2	0.1	0.1	1
EB1	5.25"x11.88"	LVL	---	2.4	2.5	2
EB2	(3) 2x12	SPF	No. 1/No. 2	0.8	0.8	1

NOTES:
1. SIZES ARE NOMINAL
2. SIZES ARE ACTUAL (IE: 5.25" X 11.875" LVL – 3PLY 1.75" X 11.875" LVL)

COLUMN SCHEDULE

MK#	SIZE	MATERIAL	NOTES
C1	PT 8X8	WOOD	1, 2, 3

NOTES:
1. THE COLUMN MAY ALSO BE A STEEL COLUMN (4" DIA) MIN.
2. ATTACH PT 8X8 WOOD COLUMN TO FOOTING WITH ABU88 POST BASE
3. IF A 4" DIA. STEEL COLUMN IS USED , ATTACH BASE PLATE WELDED TO COLUMN & BOLTED TO FOOTING WITH (4) 3/4" X 8" LONG ANCHOR BOLTS. BASE PLATE SHALL BE 1/2" X 12" X12" W/ 8" ANCHOR BOLT SPREAD.

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NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP
12/12/25

SCO#: 25–30577–01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I–26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
REST AREA PORCH FRAMING

SHEET 11 OF 22

A 1.6

PLOT DATE 12/11/25
REVISION ---

This original sheet is 24" x 36";other dimensions indicate it has been altered.

ROOF DRAINAGE LEGEND

▫	3" x 4" VERTICAL LEADER
—— - - ——	6" EAVE GUTTER @ 1:16 SLOPE

ALL ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF.

ROOF DRAINAGE CALCULATIONS
PER 2018 NC PLUMBING CODE

TABLE 1106.2 (2) RECTANGULAR VERTICAL LEADERS

3X4 @ 4"/HR 3,300 SF MAX AREA

TABLE 1106.6 SIZE OF SEMI-CIRCULAR ROOF GUTTERS

6" DIA. @4"/HR 690 SF MAX AREA

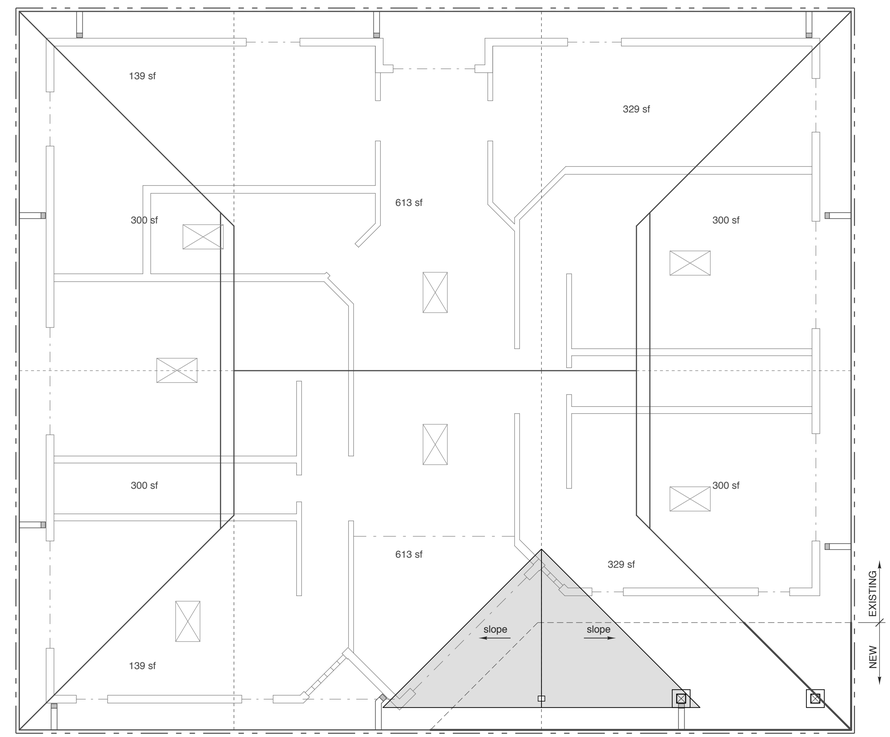
@ 1/16: 12 (1/2%) SLOPE

ATTIC VENTILATION

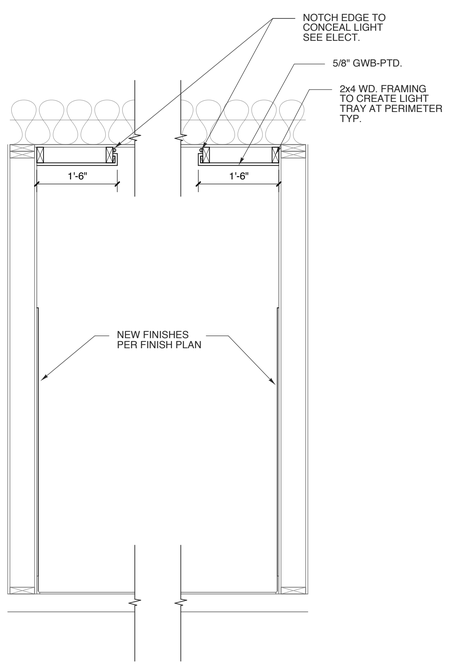
3,250 SF OF ATTIC AREA

3,250/300 = 10.8 SF FREE VENT. AREA REQ'D

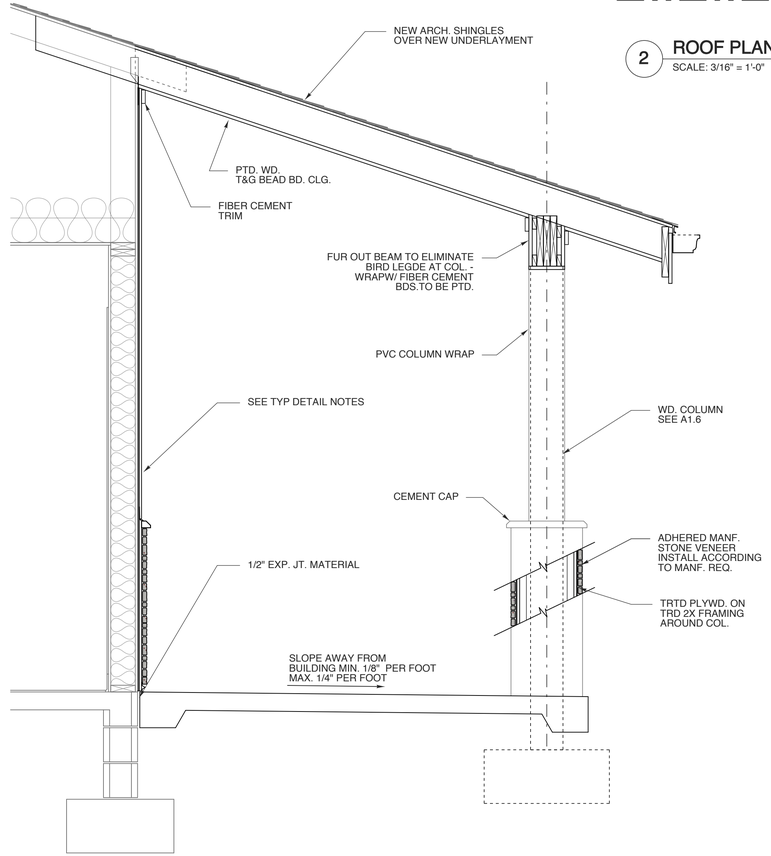
50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY THE EAVE OR CORNICE VENTS.



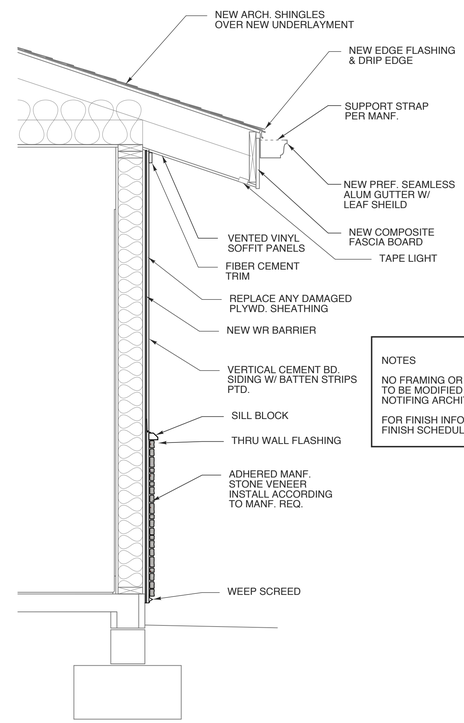
2 ROOF PLAN - RESTROOM BUILDING
SCALE: 3/16" = 1'-0"



4 SECTION @ LOBBY
SCALE: 3/4" = 1'-0"



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

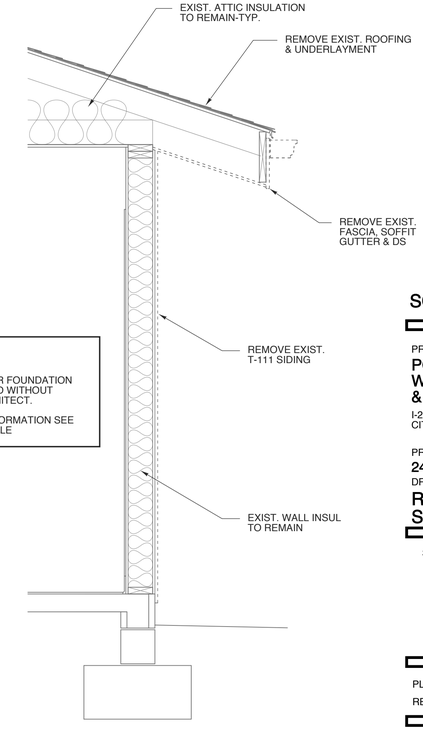


NOTES

NO FRAMING OR FOUNDATION TO BE MODIFIED WITHOUT NOTIFING ARCHITECT.

FOR FINISH INFORMATION SEE FINISH SCHEDULE

2 NEW TYP. WALL SECTION
SCALE: 3/4" = 1'-0"



1 EXIST. WALL SECT-DEMO
SCALE: 3/4" = 1'-0"

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NORTH CAROLINA
RALEIGH, N.C.

Ginger S. Summer
12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
REST AREA SECTIONS

SHEET 12 OF 22

A1.7

PLOT DATE 12/13/25
REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

DEMOLITION & CONSTRUCTION NOTES

ALL MATERIALS SHALL BE NEW AND OF QUANTITY SPECIFIED, EXCEPT WHERE RECLAIMED MATERIAL IS INDICATED FOR USE. WORKMANSHIP SHALL AT ALL TIMES BE OF A GRADE ACCEPTED AS THE BEST PRACTICE OF THE PARTICULAR TRADE INVOLVED, AND AS STIPULATED IN WRITTEN STANDARDS OF RECOGNISED ORGANIZATIONS OR INSTITUTES OF THE RESPECTIVE TRADES EXCEPT AS EXCEEDED OR QUALIFIED BY THE SPECIFICATIONS.

ITEMS RESULTING FROM THE DEMOLITION AND ITEMS WHICH ARE NOT TO BE RETURNED TO THE OWNER AS NOTED IN THE CONTRACT DOCUMENTS, SHALL BE REMOVED FROM THE SITE, AS THE WORK PROGRESSES, AND DISPOSED OF IN A LEGAL MANER. .

THE CONTRACTOR SHALL REVIEW EACH PHASE OF THE WORK PRIOR TO PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS THAT WILL RESULT IN CHANGES TO THE WORK.

THE EXISTING STRUCTURE SHALL NOT BE ALTERED EXCEPT AS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT CUT, NOTCH, BLOCK OR RELOCATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.

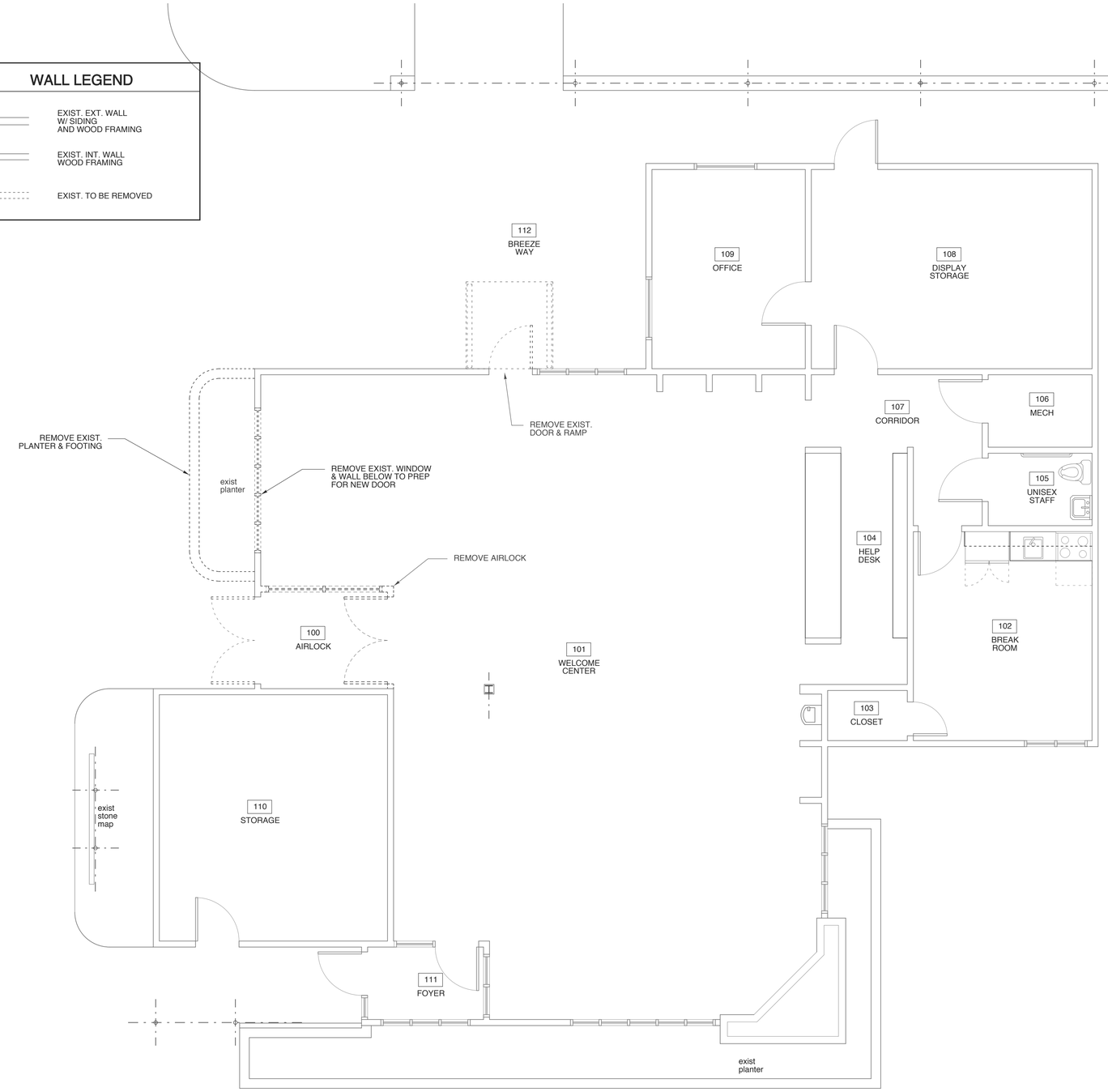
AREA OUTSIDE OF AREA OF WORK TO REMAIN CLEAR AND CLEAN OF DEBRIS, EQUIPMENT ETC. AT ALL TIMES..

THE WELCOME CENTER BUILDING TO REMAIN OCCUPIED OUTSIDE THE AREA OF WORK. CONSTRUCTION NOT TO INTERFERE WITH DAILY OPERATIONS OF BUILDING OCCUPANTS OR VISITORS. CONSTRUCTION SHALL NOT CAUSE UNSAFE CONDITIONS FOR BUILDING OCCUPANTS OR VISITORS.

IF CONSTRUCTION REQUIRES AN INTERRUPTION OF SERVICES TO THE BUILDING, THE OWNER AND ARCHITECT SHALL BE NOTIFIED AND AN APPROPRIATE TIMING WILL BE AGREED UPON.

WALL LEGEND

- EXIST. EXT. WALL W/ SIDING AND WOOD FRAMING
- EXIST. INT. WALL WOOD FRAMING
- EXIST. TO BE REMOVED



1 DEMO PLAN - WELCOME CENTER

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

5' 4' 3' 2' 1' 0 5'

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GINGER S. SUMMER REGISTERED ARCHITECT 11075 NORTH CAROLINA RALEIGH, NC

Ginger S. Summer

12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE

POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.

2404c

DRAWING TITLE

WELCOME CTR PLAN DEMO

SHEET 13 OF 22

A2.0

PLOT DATE 12/13/25

REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

DOOR SCHEDULE

MARK	DOOR SIZE	DOOR MAT'L	DOOR TYPE	FRAME TYPE	FRAME DETAILS	HDWR SET NO.	REMARKS
1	10'-0" x 7'-0" x 1-3/4"	ALUM	A	A	---	1	---
2	10'-0" x 7'-0" x 1-3/4"	ALUM	A	A	---	1	---

NOTES:

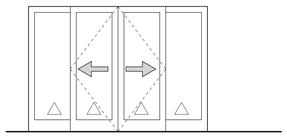
- COORDINATE KEYING OF HARDWARE WITH OWNER
- DOOR HANDLES TO BE LEVER HANDLE
- ALL DOORS TO MEET NCSBC SECTION 1609.1.2
- MATCH EXISTING FINISHES-TYP.

-NEW ENTRANCE DOORS TO MEET ENERGY REQ.
U-FACTOR = 0.77 MAX.
SHCG = 0.25 MAX.

HARDWARE SETS

1. AUTOMATIC SLIDING W/EMERGENCY BREAK AWAY OPERATION-CLASSROOM FUNCTION

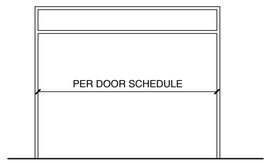
SEE SPEC FOR MORE INFORMATION



A AUTOMATIC SLIDING-ALUM.

3 DOOR TYPES — △ INDICATES TEMPERED GLASS

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



A ALUMINUM WITH TRANSOM

2 DOOR FRAME TYPES

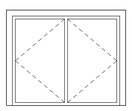
SCALE: 1/4" = 1'-0"

WINDOW SCHEDULE

MARK	W SIZE H	TYPE	MATERIAL	GLASS	REMARKS
A	2'-1" x 2'-1"	A	VINYL	1" INSUL.	ALUMINUM FRAME

NOTES:
-SEE WINDOW TYPE ELEVATIONS AND DETAILS.
-DIMENSIONS ARE NOMINAL
-GLASS TO MEET NC ENERGY CODE-SEE COVER
-ALL WINDOWS TO MEET NCSBC SECTION 1609.1.2

-PROVIDE CONTINUOUS BEAD OF SILICONE CAULK BEHIND ALL NAIL FINS BEFORE INSTALLING NEW WINDOWS PER MANF. SPEC.



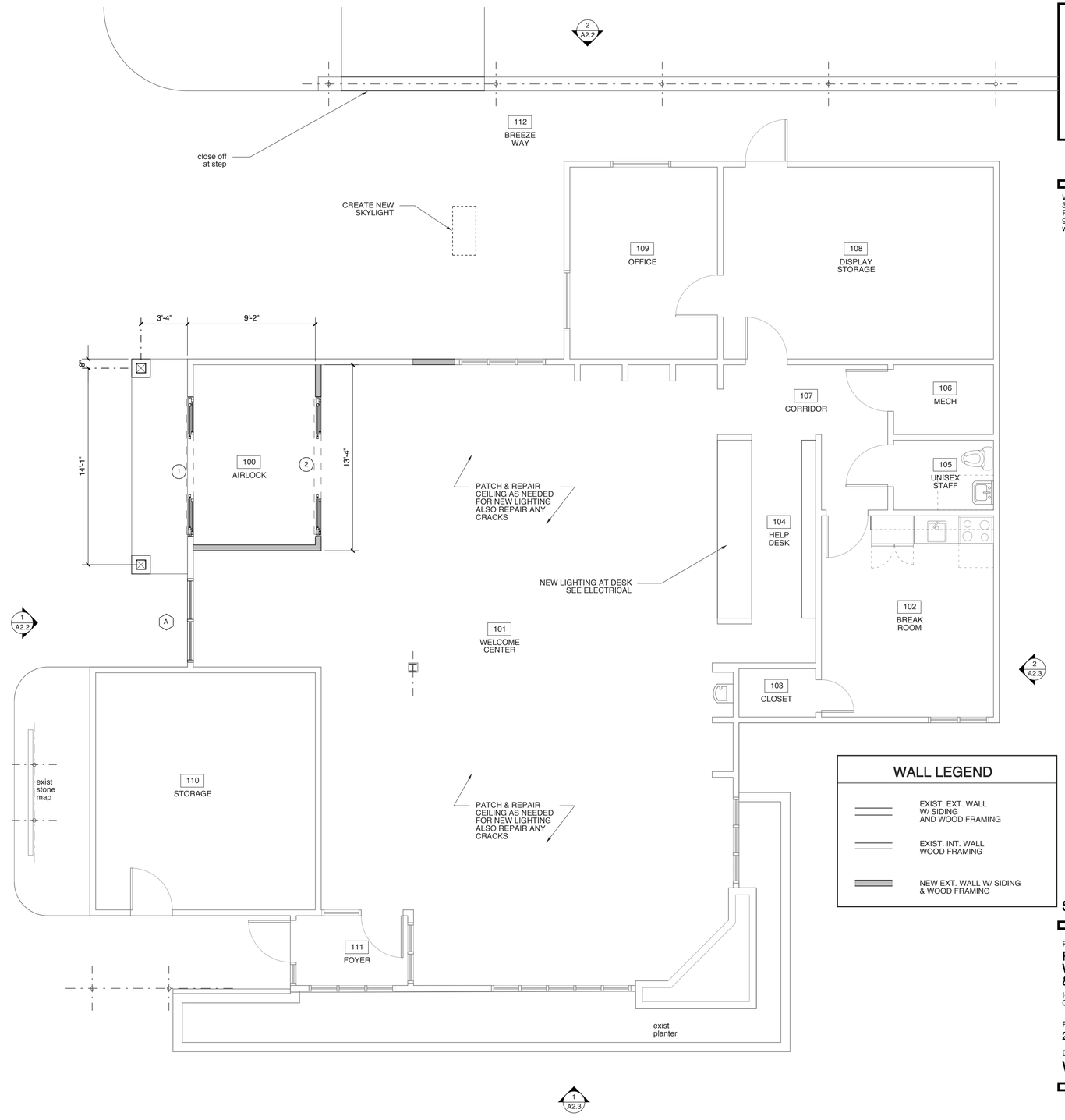
A VINYL CASEMENT

4 WINDOW TYPES

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

ROOM FINISH SCHEDULE

MARK	ROOM NAME	FLOOR	BASE	WALL N	WALL E	WALL S	WALL W	WAINSCOT	CEILING MATERIAL	REMARKS / NOTES
100	AIRLOCK	POR. TILE	POR. TILE	PAINT				---	REPAIR CRACKS PAINT EXIST.	---
101	WELCOME CENTER	CARPET TILE	PTD. WD.	PAINT				---	REPAIR CRACKS PAINT EXIST.	---
102	BREAK ROOM	existing	existing	PAINT EXIST.				---	REPAIR CRACKS PAINT EXIST.	---
103	CLOSET	existing	existing	PAINT EXIST				---	---	---
104	HELP DESK	existing	existing	PAINT EXIST.				---	REPAIR CRACKS PAINT EXIST.	---
105	UNISEX STAFF	existing	existing	PAINT EXIST.				---		---
106	MECHANICAL	existing	existing	PAINT EXIST.				---	---	---
107	CORRIDOR	existing	existing	PAINT EXIST.				---	REPAIR CRACKS PAINT EXIST.	---
108	DISPLAY STORAGE	existing	existing	PAINT EXIST.				---	---	---
109	OFFICE	existing	existing	PAINT EXIST				---	---	---
110	STORAGE	existing	existing	PAINT EXIST.					---	---
111	FOYER	POR. TILE	POR. TILE	PAINT EXIST				---	REPAIR CRACKS PAINT EXIST.	---
111	BREEZEWAY	NEW CONC	SEE WALL SECT	PAINT NEW				---	PAINT EXIST.	---



1 FLOOR PLAN - WELCOME CENTER

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

5' 4' 3' 2' 1' 0 5'

WALL LEGEND

- EXIST. EXT. WALL W/ SIDING AND WOOD FRAMING
- EXIST. INT. WALL WOOD FRAMING
- NEW EXT. WALL W/ SIDING & WOOD FRAMING

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GINGER S. SUMMER REGISTERED ARCHITECT 11075 NORTH CAROLINA RALEIGH, NC

12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
WELCOME CTR PLAN

SHEET 14 OF 22

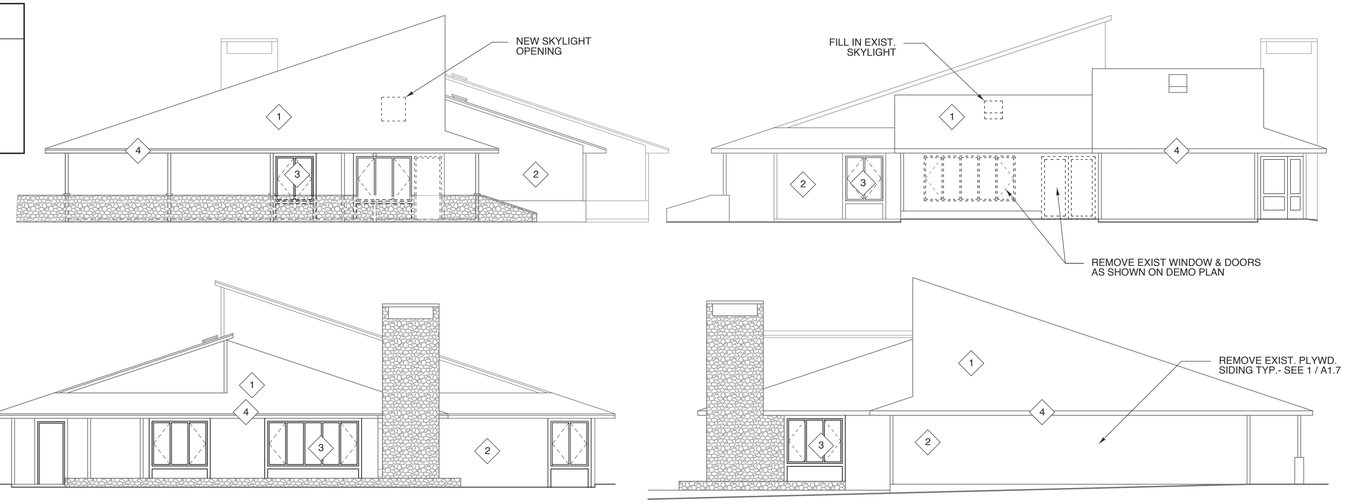
A2.1

PLOT DATE 12/13/25
REVISION ---

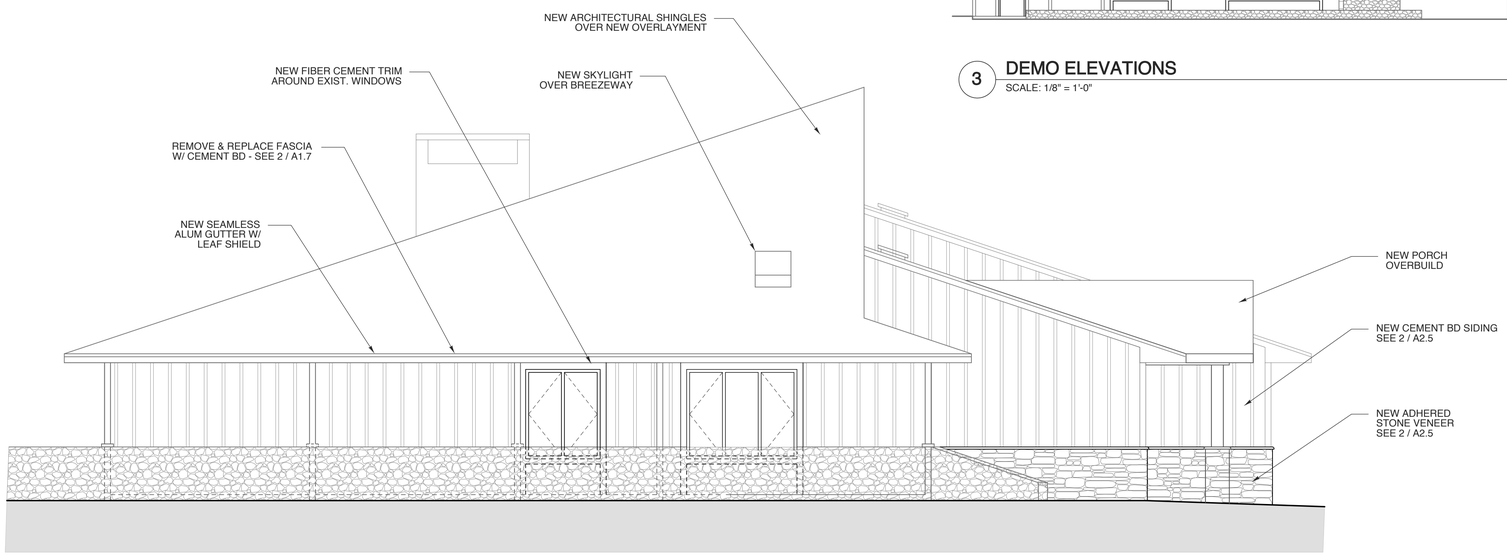
This original sheet is 24" x 36"; other dimensions indicate it has been altered.

KEYED NOTES

1. REMOVE EXISTING SHINGLES & UNDERLAYMENT. REPLACE ANY DAMAGED SUBSTRATE WITH LIKE MATERIALS.
2. REMOVE EXISTING SIDING & HOUSEWRAP. REPLACE ANY DAMAGED SUBSTRATE WITH LIKE MATERIALS.
3. REMOVE EXISTING WINDOW & DOOR TRIM. PROTECT OPENINGS AS NEEDED
4. REMOVE EXISTING GUTTERS & DOWNSPOUTS ALSO REMOVE EXISTING FASCIA & SOFFIT



3 DEMO ELEVATIONS
SCALE: 1/8" = 1'-0"



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

5' 4' 3' 2' 1' 0 5'

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

5' 4' 3' 2' 1' 0 5'

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PROJECT TITLE
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I-26
CITY, NORTH CAROLINA

PROJECT NO.
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DRAWING TITLE
WELCOME CENTER ELEVATIONS

SHEET 15 OF 22

A 2.2

PLOT DATE 12/13/25
REVISION ---

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ATTIC VENTILATION

2,264 SF OF ATTIC AREA

2,264/300 = 7.55 SF FREE VENT. AREA REQ'D

50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY THE EAVE OR CORNICE VENTS.

ROOF DRAINAGE LEGEND

▭	3" x 4" VERTICAL LEADER
—— - - ——	6" EAVE GUTTER @ 1:16 SLOPE

ALL ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF.

ROOF DRAINAGE CALCULATIONS

PER 2018 NC PLUMBING CODE

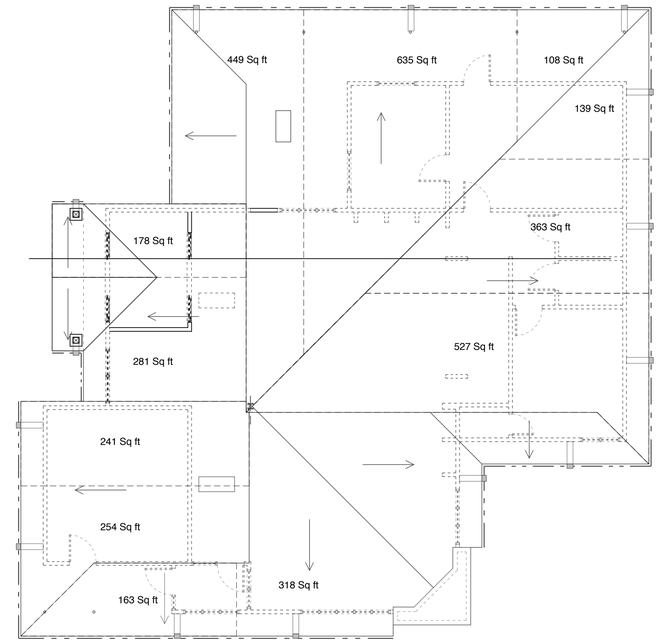
TABLE 1106.2 (2) RECTANGULAR VERTICAL LEADERS

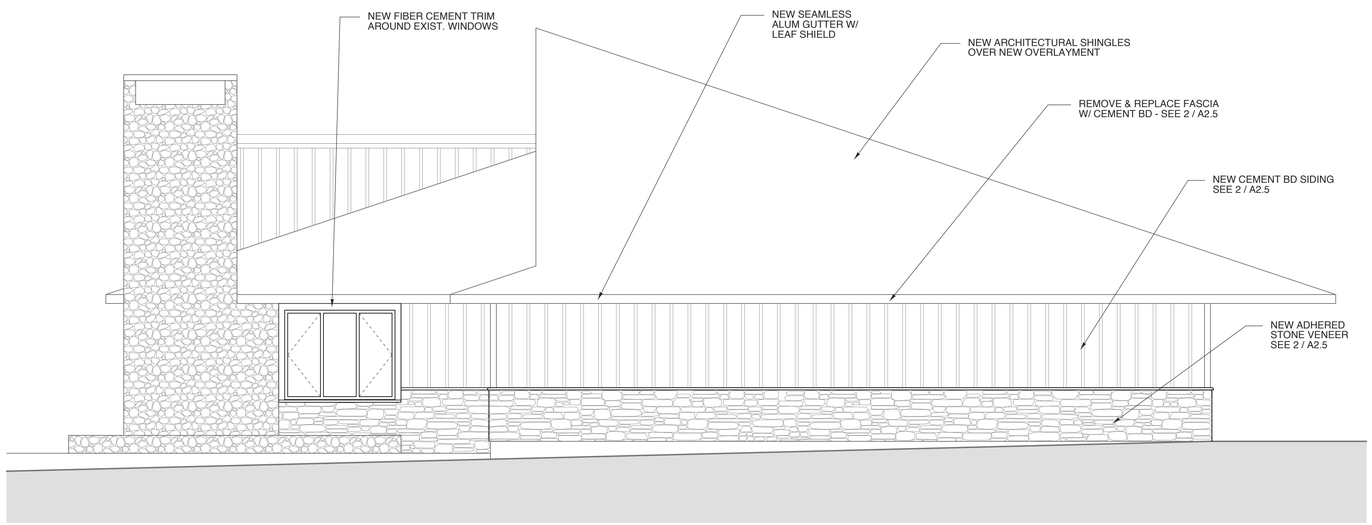
3X4 @ 4"/HR 3,300 SF MAX AREA

TABLE 1106.6 SIZE OF SEMI-CIRCULAR ROOF GUTTERS

6" DIA. @4"/HR 690 SF MAX AREA

@ 1/16: 12 (1/2%) SLOPE

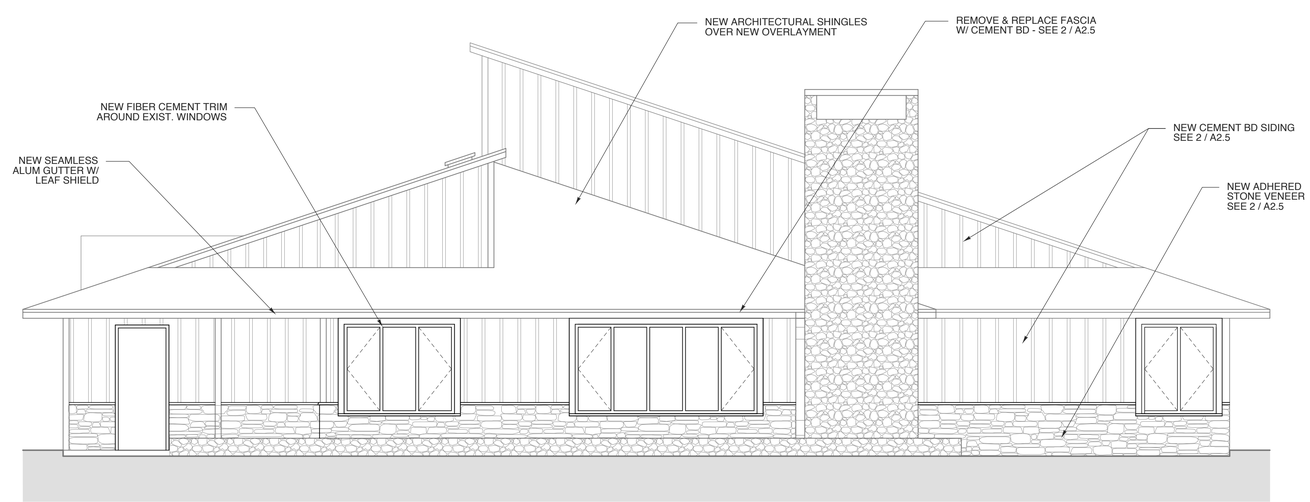




2 WEST ELEVATION

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

5' 4' 3' 2' 1' 0 5'



1 NORTH ELEVATION

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

5' 4' 3' 2' 1' 0 5'

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11075
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RALEIGH, NC

Ginger S. Summer

12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE

POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.

2404c

DRAWING TITLE

WELCOME CENTER ELEVATIONS

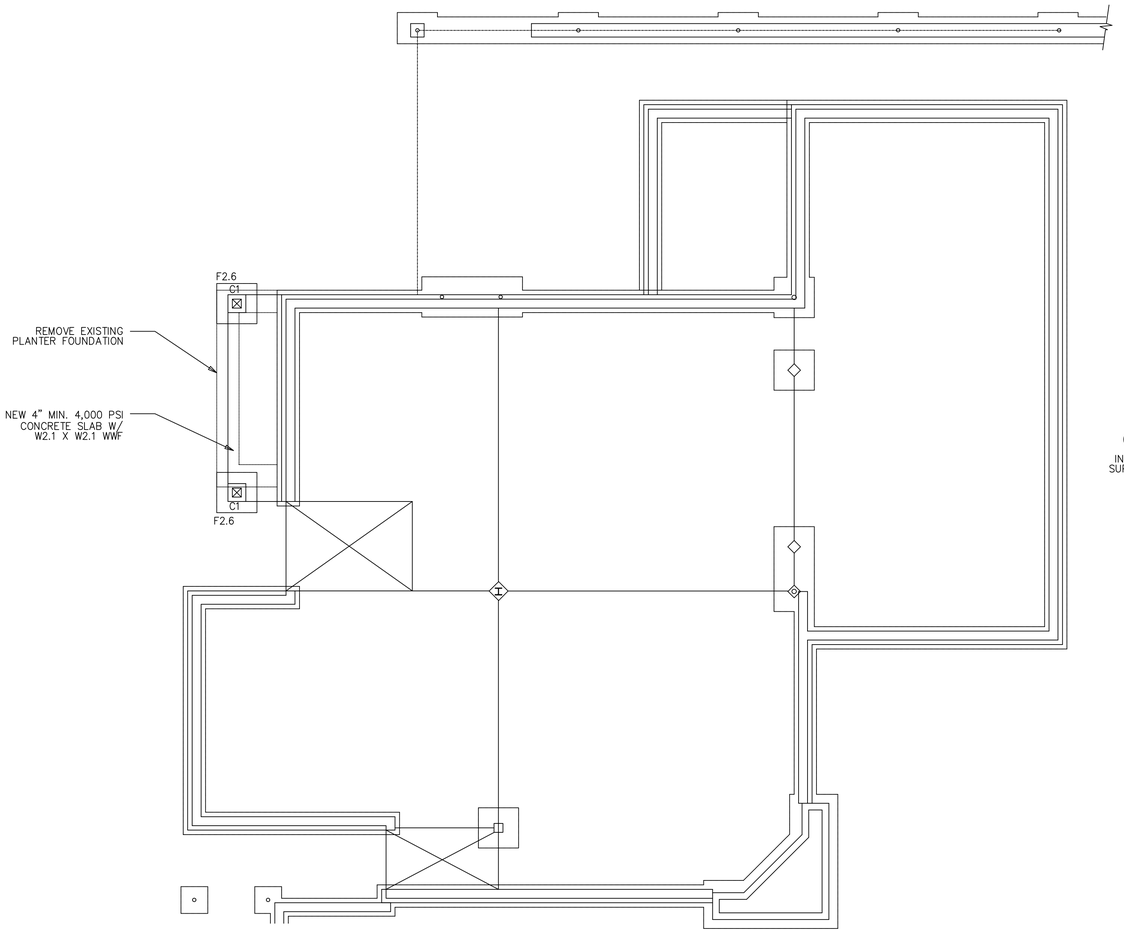
SHEET 16 OF 22

A2.3

PLOT DATE 12/13/25

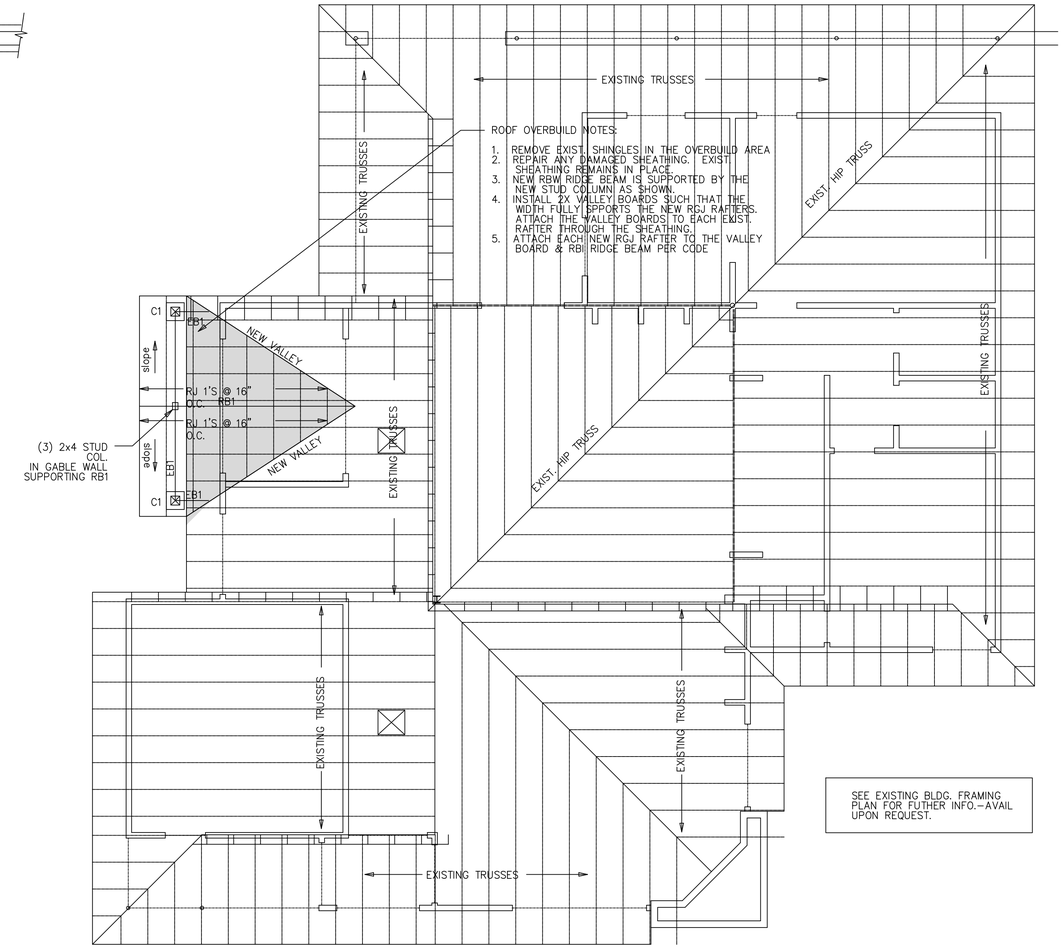
REVISION ---

This original sheet is 24" x 36"; other dimensions indicate it has been altered.



2 FOUNDATION PLAN – WELCOME CENTER
SCALE: 3/16" = 1'-0"

5' 4' 3' 2' 1' 0 5'



SEE EXISTING BLDG. FRAMING PLAN FOR FUTHER INFO.–AVAIL UPON REQUEST.

1 FRAMING PLAN – WELCOME CENTER
SCALE: 3/16" = 1'-0"

5' 4' 3' 2' 1' 0 5'

FOOTING SCHEDULE			
MK#	SIZE	REINFORCING	NOTE
TD1	8" WIDE X 8" DEEP	(2) #4 CONTINUOUS	TURN DOWN
F2.6	2'-6" X 2'-6" X 12"	(4) #4 EACH WAY	C1 COLUMN & PIER FTG.

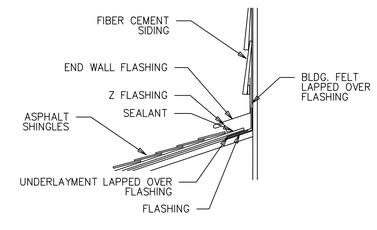
NOTES:
1. REINFORCING TO BE LOCATED 3" CLEAR FROM BOTTOM OF FTG.

COLUMN SCHEDULE			
MK#	SIZE	MATERIAL	NOTES
C1	PT 8X8	WOOD	1, 2, 3

NOTES:
1. THE COLUMN MAY ALSO BE A STEEL COLUMN (4" DIA) MIN.
2. ATTACH PT 8X8 WOOD COLUMN TO FOOTING WITH ABU88 POST BASE
3. IF A 4" DIA. STEEL COLUMN IS USED , ATTACH BASE PLATE WELDED TO COLUMN & BOLTED TO FOOTING WITH (4) 3/4" X 8" LONG ANCHOR BOLTS. BASE PLATE SHALL BE 1/2" X 12" X12" W/ 8" ANCHOR BOLT SPREAD.

ROOF FRAMING SCHEDULE						
MK#	SIZE	MATERIAL	GRADE	RXN SMALL	RXN LARGE	NOTE
RB1	(2) 2x10	SPF	No. 1/No. 2	1.3	1.3	1
RJ1	2x6	SPF	No. 1/No. 2	0.1	0.1	1
EB1	(3) 2x12	SPF	No. 1/No. 2	1.0	1.1	1

NOTES:
1. SIZES ARE NOMINAL



ALL ELEMENTS TO BE INSTALLED PER MANF. REQ.

3 FLASHING @ transition
SCALE: 1 1/2" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP
12/12/25

SCO#: 25-30577-01

PROJECT TITLE
POLK COUNTY
WELCOME CENTER
& REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
WELCOME CTR
PORCH OVERBUILD

SHEET 17 OF 22

A 2.4

PLOT DATE 12/12/25
REVISION ---

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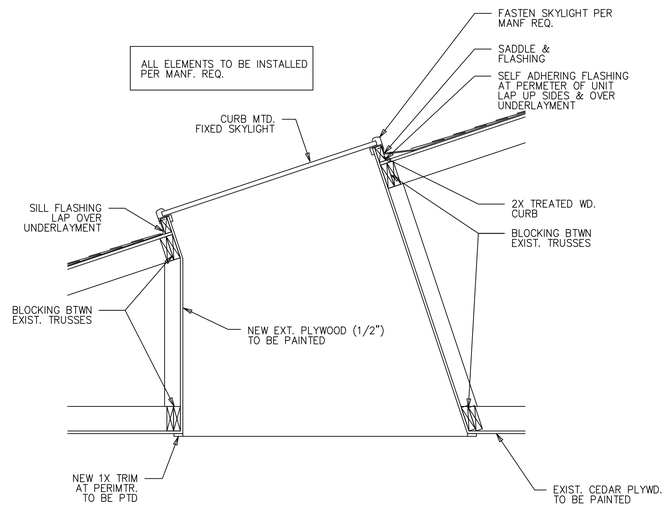
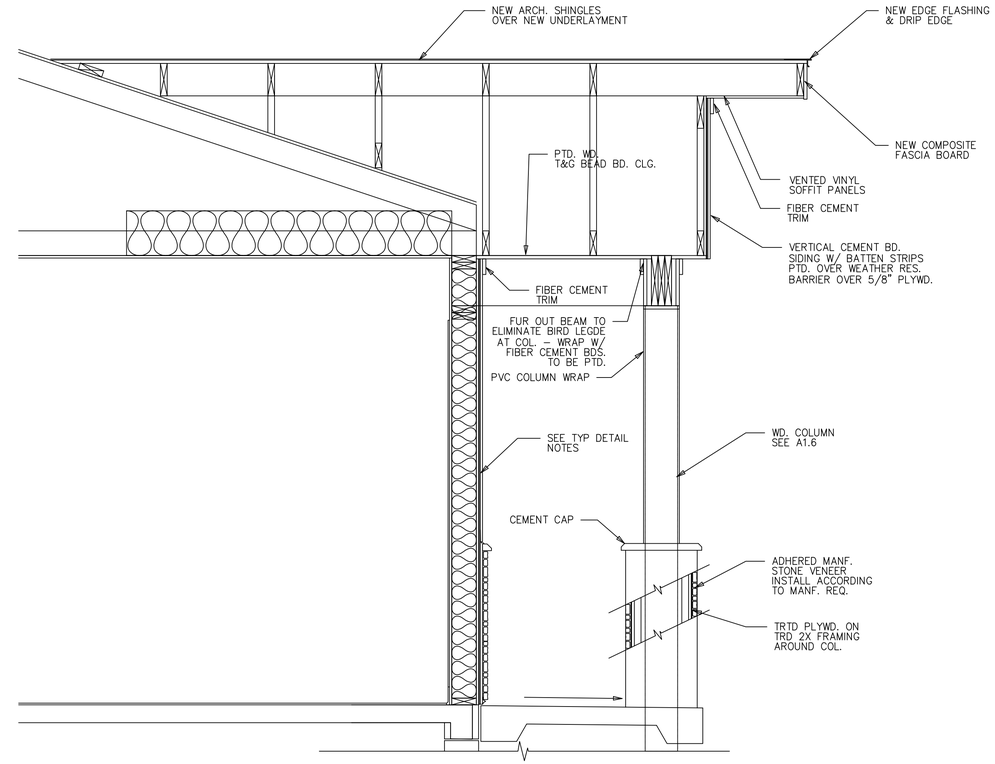
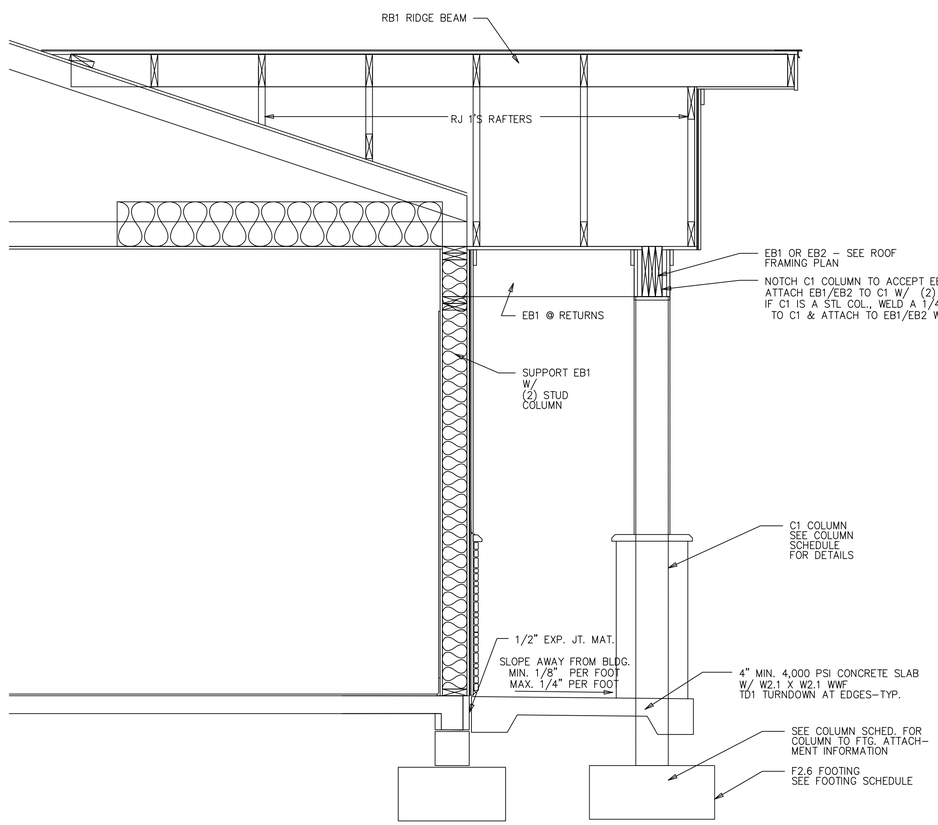


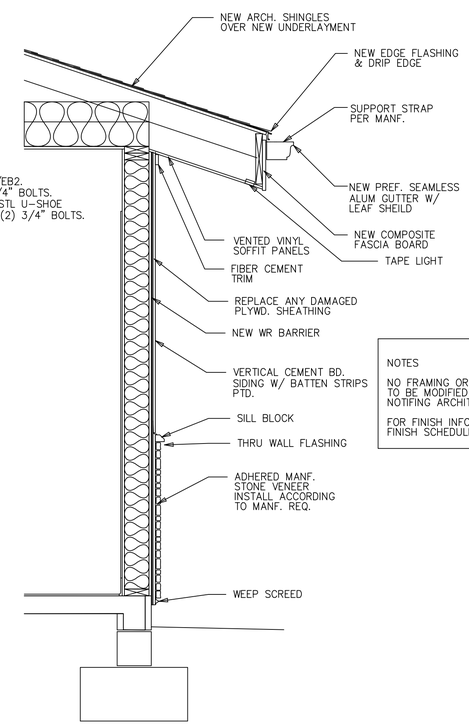
5 NEW SKYLIGHT
SCALE: 3/4" = 1'-0"



6 NEW WALL SECTION–architectural notes
SCALE: 3/4" = 1'-0"



3 NEW WALL SECT–structural notes
SCALE: 3/4" = 1'-0"



NOTES

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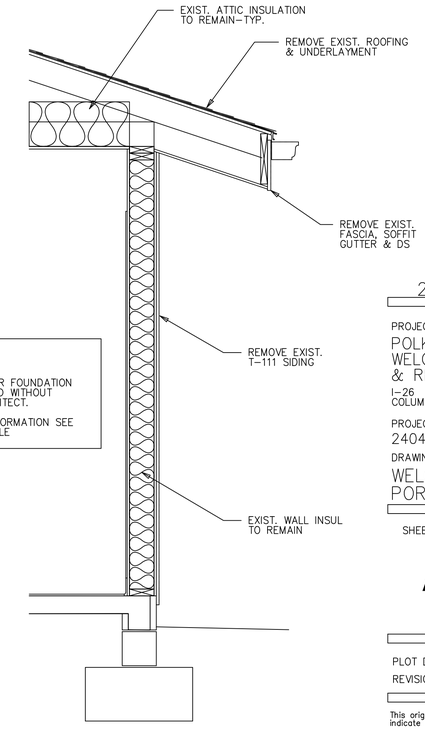
FOR FINISH INFORMATION SEE FINISH SCHEDULE

2 NEW TYP. WALL SECTION
SCALE: 3/4" = 1'-0"



1 EXIST. WALL SECT–DEMO
SCALE: 3/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP
12/12/25

SCO#:
25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
WELCOME CTR PORCH OVERBUILD

SHEET 18 OF 22

A 2.5

PLOT DATE 12/12/25
REVISION ---

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3 DEMO ELEVATIONS
SCALE: 1/8" = 1'-0"

DEMOLITION & CONSTRUCTION NOTES

ALL MATERIALS SHALL BE NEW AND OF QUANTITY SPECIFIED, EXCEPT WHERE RECLAIMED MATERIAL IS INDICATED FOR USE. WORKMANSHIP SHALL AT ALL TIMES BE OF A GRADE ACCEPTED AS THE BEST PRACTICE OF THE PARTICULAR TRADE INVOLVED, AND AS STIPULATED IN WRITTEN STANDARDS OF RECOGNISED ORGANIZATIONS OR INSTITUTES OF THE RESPECTIVE TRADES EXCEPT AS EXCEEDED OR QUALIFIED BY THE SPECIFICATIONS.

ITEMS RESULTING FROM THE DEMOLITION AND ITEMS WHICH ARE NOT TO BE RETURNED TO THE OWNER AS NOTED IN THE CONTRACT DOCUMENTS, SHALL BE REMOVED FROM THE SITE, AS THE WORK PROGRESSES, AND DISPOSED OF IN A LEGAL MANER. .

THE CONTRACTOR SHALL REVIEW EACH PHASE OF THE WORK PRIOR TO PROCEEDING WITH THE WORK AND SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES IN THE CONTRACT DOCUMENTS THAT WILL RESULT IN CHANGES TO THE WORK.

THE EXISTING STRUCTURE SHALL NOT BE ALTERED EXCEPT AS INDICATED IN THE CONTRACT DOCUMENTS. DO NOT CUT, NOTCH, BLOCK OR RELOCATE STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER OR ARCHITECT.

AREA OUTSIDE OF AREA OF WORK TO REMAIN CLEAR AND CLEAN OF DEBRIS, EQUIPMENT ETC. AT ALL TIMES..

THE WELCOME CENTER BUILDING TO REMAIN OCCUPIED OUTSIDE THE AREA OF WORK. CONSTRUCTION NOT TO INTERFERE WITH DAILY OPERATIONS OF BUILDING OCCUPANTS OR VISITORS. CONSTRUCTION SHALL NOT CAUSE UNSAFE CONDITIONS FOR BUILDING OCCUPANTS OR VISITORS.

IF CONSTRUCTION REQUIRES AN INTERRUPTION OF SERVICES TO THE BUILDING, THE OWNER AND ARCHITECT SHALL BE NOTIFIED AND AN APPROPRIATE TIMING WILL BE AGREED UPON.

KEYED NOTES

1. REMOVE EXISTING SHINGLES & UNDERLAYMENT. REPLACE ANY DAMAGED SUBSTRATE WITH LIKE MATERIALS.
2. REMOVE EXISTING SIDING & HOUSEWRAP. REPLACE ANY DAMAGED SUBSTRATE WITH LIKE MATERIALS.
3. REMOVE EXISTING WINDOW & DOOR TRIM. PROTECT OPENINGS AS NEEDED
4. REMOVE EXISTING GUTTERS & DOWNSPOUTS ALSO REMOVE EXISTING FASCIA & SOFFIT

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ATTIC VENTILATION

1,065 SF OF ATTIC AREA

1,065/300 = 3.55 SF FREE VENT. AREA REQ'D

50 PERCENT OF THE REQUIRED VENTILATING AREA PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION PROVIDED BY THE EAVE OR CORNICE VENTS.

ROOF DRAINAGE LEGEND

3" x 4" VERTICAL LEADER

6" EAVE GUTTER @ 1:16 SLOPE

ALL ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF.

ROOF DRAINAGE CALCULATIONS
PER 2018 NC PLUMBING CODE

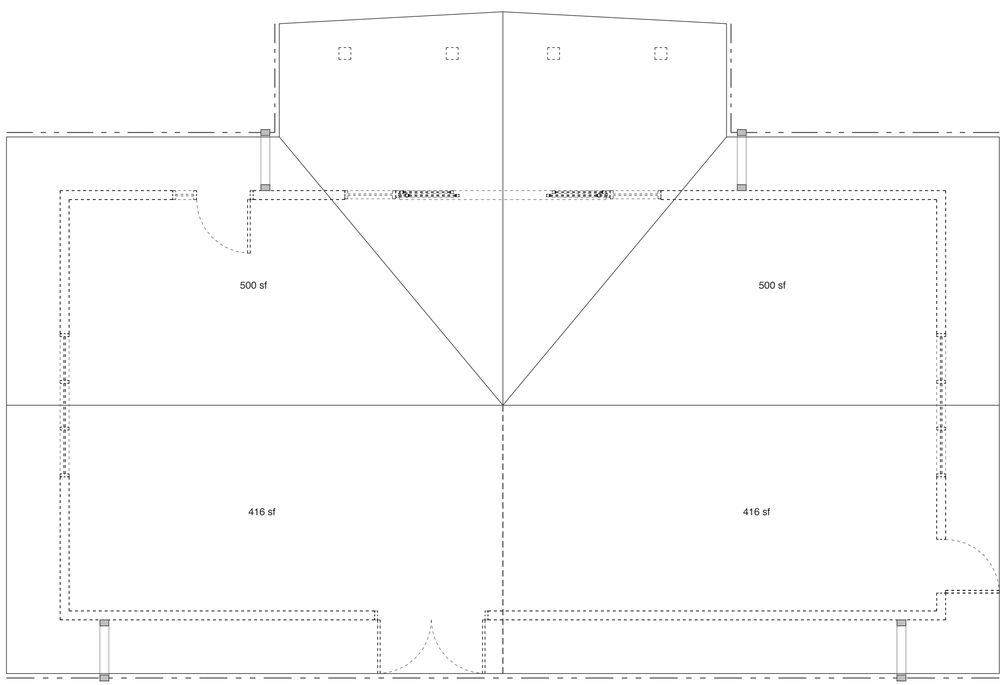
TABLE 1106.2 (2) RECTANGULAR VERTICAL LEADERS

3X4 @ 4"/HR 3,300 SF MAX AREA

TABLE 1106.6 SIZE OF SEMI-CIRCULAR ROOF GUTTERS

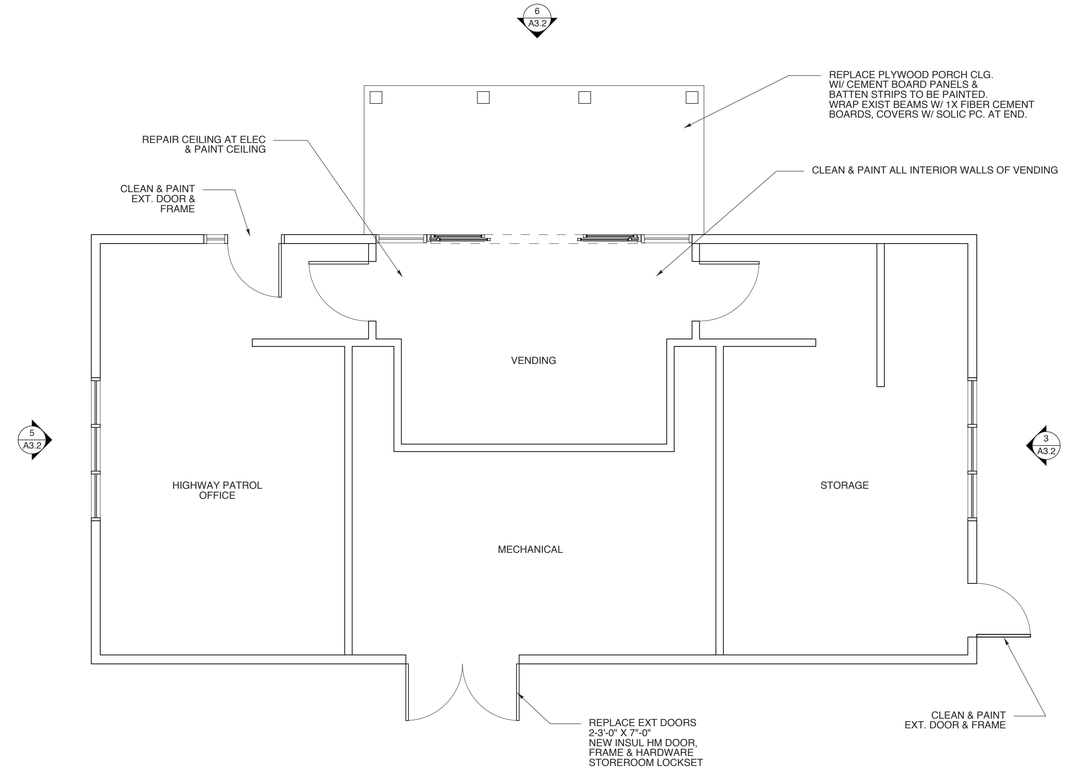
6" DIA. @4"/HR 690 SF MAX AREA

@ 1/16: 12 (1/2%) SLOPE



2 ROOF PLAN - VENDING BLDG.
SCALE: 1/4" = 1'-0"

5' 4' 3' 2' 1' 0 5'



1 FLOOR PLAN - VENDING BLDG.
SCALE: 1/4" = 1'-0"

5' 4' 3' 2' 1' 0 5'

GINGER S. SUMMER
REGISTERED ARCHITECT
11075
NORTH CAROLINA
RALEIGH, N.C.

12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
VENDING BUILDING

SHEET 19 OF 22

A3.1

PLOT DATE 12/13/25
REVISION ---

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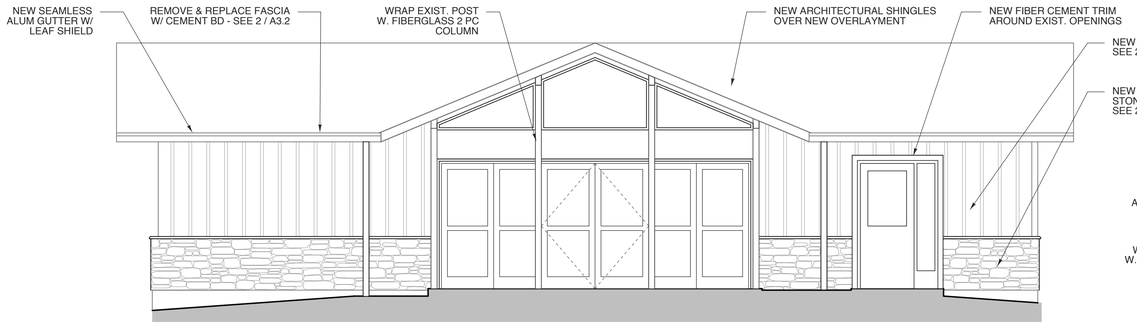
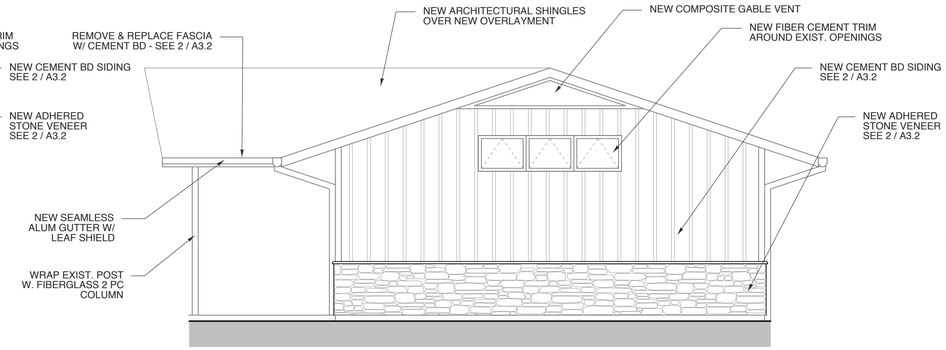
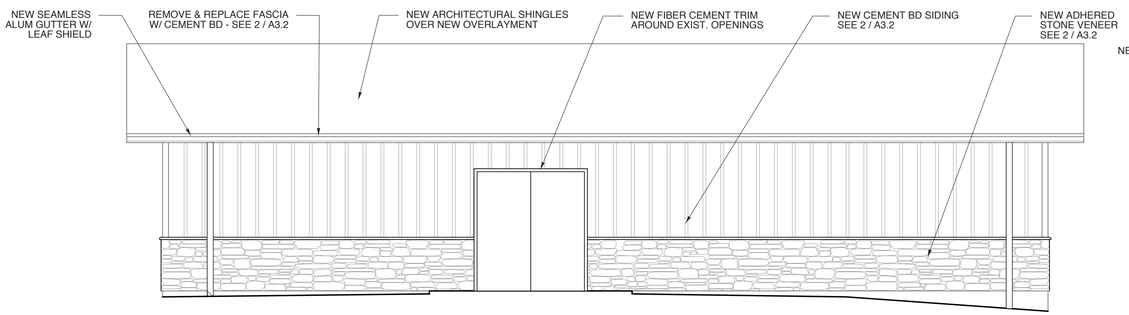


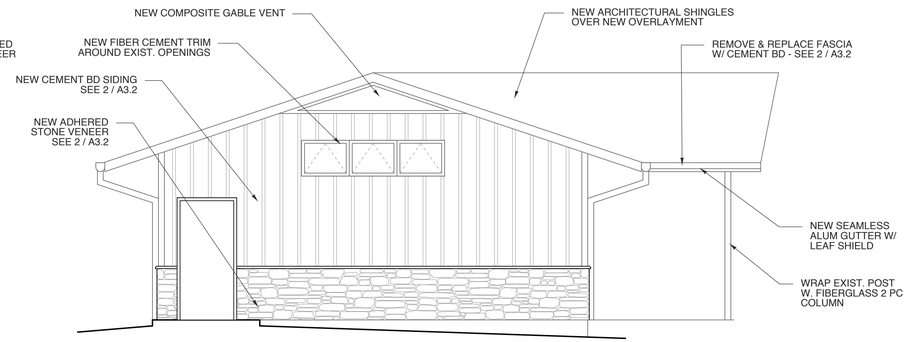
6 SOUTH ELEVATION
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'



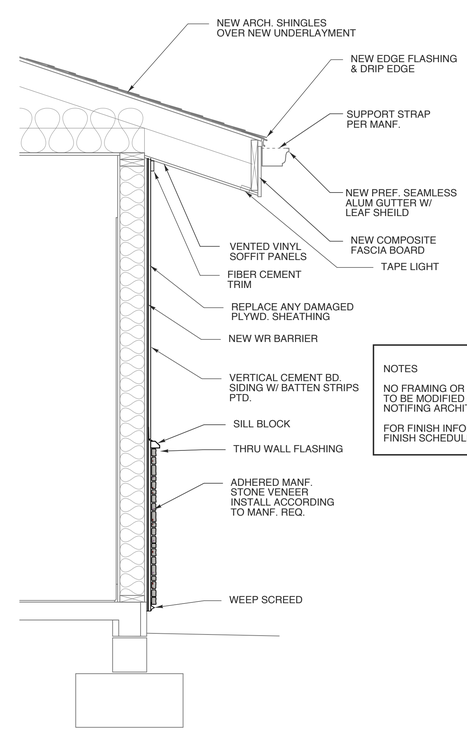
5 EAST ELEVATION
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'



4 NORTH ELEVATION
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'



3 WEST ELEVATION
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'



NOTES

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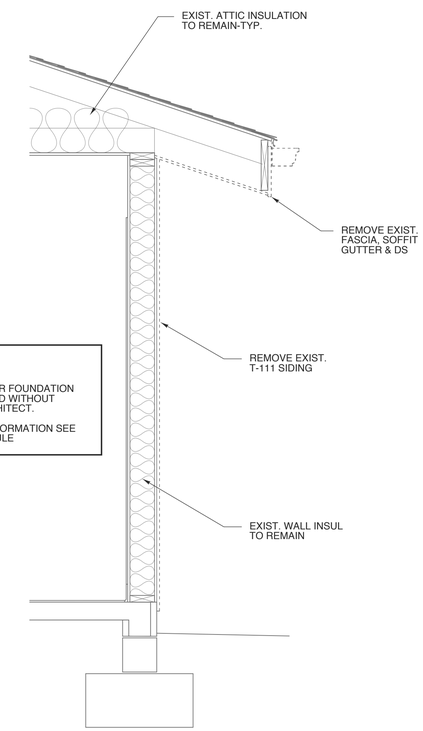
FOR FINISH INFORMATION SEE FINISH SCHEDULE

2 NEW TYP. WALL SECTION
SCALE: 3/4" = 1'-0"



1 EXIST. WALL SECT-DEMO
SCALE: 3/4" = 1'-0"

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I-26
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PROJECT NO.
2404c

DRAWING TITLE
VENDING BUILDING

SHEET 20 OF 22

A3.2

PLOT DATE 12/13/25
REVISION ---

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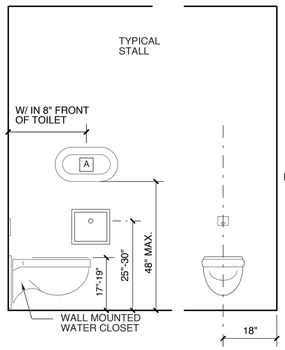
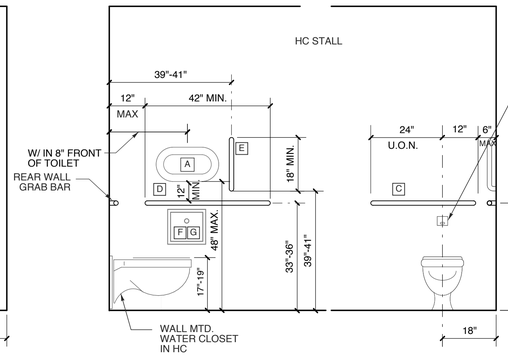
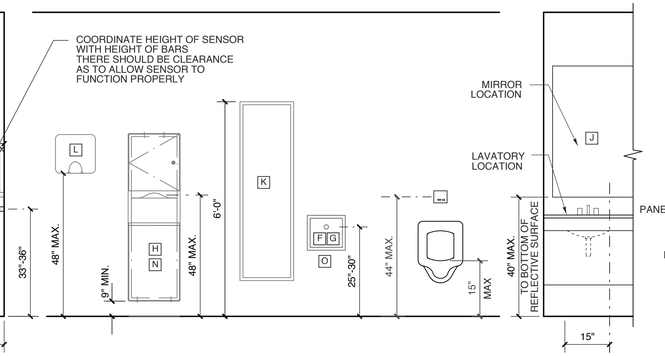
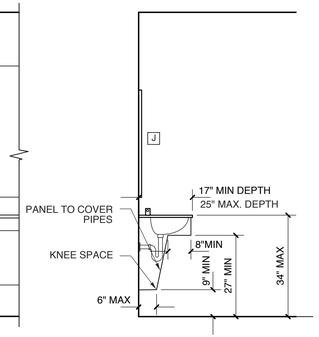


17 TYPICAL HEIGHTS



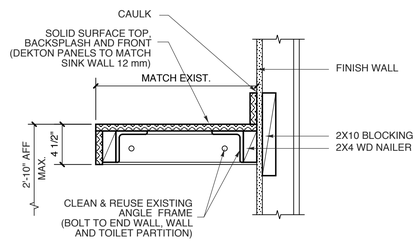


16 TYPICAL HEIGHTS

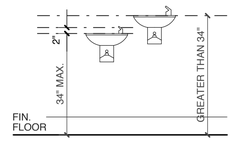


15 LAV. SECTION
SCALE: 1/2"= 1'-0"

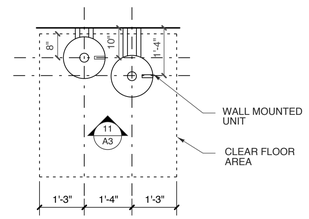
14 ANTI-GRIP HEADRAIL
SCALE: NTS



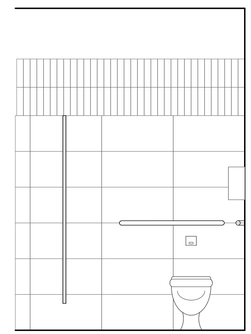
13 CHANGING TABLE
SCALE: 1 1/2" = 1'-0"



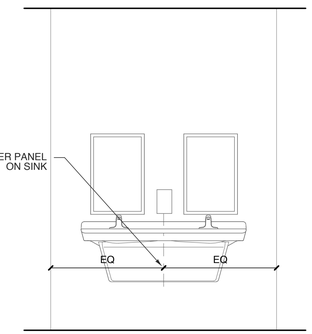
12 HC DF ELEVATION
SCALE: 1/2" = 1'-0"



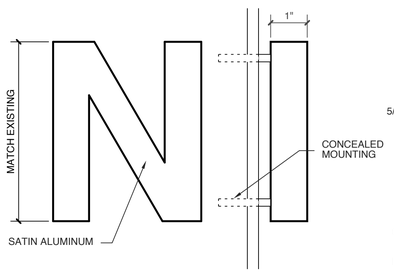
11 HC DF PLAN
SCALE: 1/2" = 1'-0"



10 W. C. ELEV. TILE
SCALE: 1/2"= 1'-0"

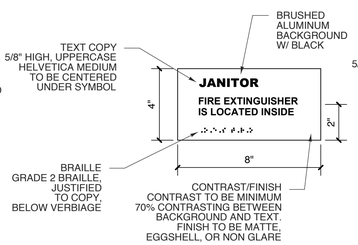


9 LAV. ELEV. -PANELS
SCALE: 1/2"= 1'-0"

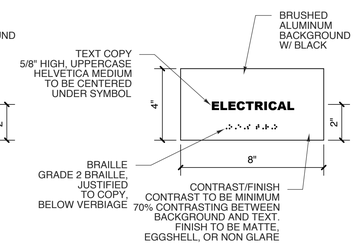


TYPE: HELVETICA BOLD

7 DIM. LETTERS
SCALE: 3" = 1'-0"



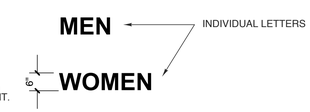
6 JANITOR SIGNAGE
SCALE: 3" = 1'-0"



5 TYP. SIGNAGE
SCALE: 3" = 1'-0"

SIGNAGE NOTES

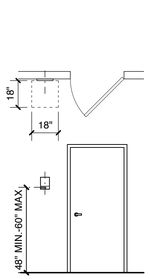
1. SIGNS TO BE CAST ALUMINUM
2. RAISED METAL BEAD BRAILE
3. BLACK SILK SCREENED LETTERING HELVETICA BOLD FONT, 3/8" TEXT HT.
4. INDIVIDUAL METAL LETTERS TO BE 1/4" THICK MILLED BRUSHED ALUMINUM PLATE
5. SIGNAGE SHALL COMPLY WITH ICC A117.1-2009, CH. 7
6. BOTTOM OF SIGN TO BE PER 4/A3



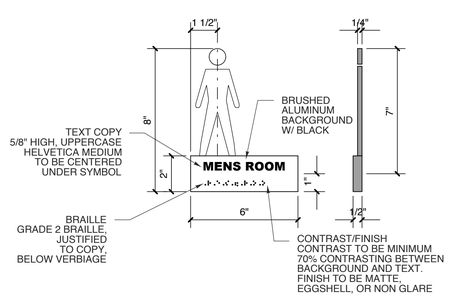
SIGNAGE NOTES

1. SIGNS TO BE CAST ALUMINUM
2. INDIVIDUAL METAL LETTERS TO BE 1/4" THICK MILLED BRUSHED ALUMINUM PLATE
3. MOUNTED OVER OPENING TO DUAL RESTROOMS

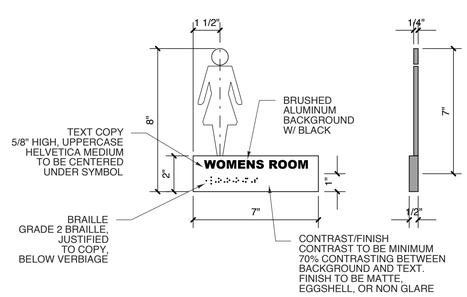
8 INT. INDIV. LETTERS
SCALE: 3" = 1'-0"



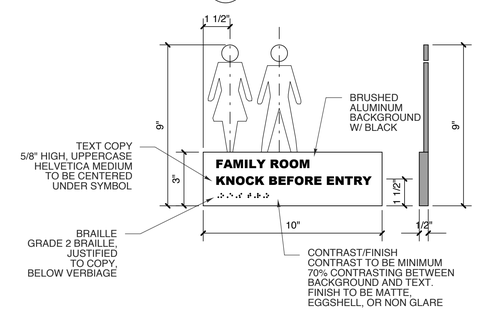
4 SIGNAGE PLACEMENT
SCALE: 1/4" = 1'-0"



3 MEN'S ROOM SIGNAGE
SCALE: 3" = 1'-0"



2 WOMEN'S ROOM SIGNAGE
SCALE: 3" = 1'-0"



1 FAMILY ROOM SIGNAGE
SCALE: 3" = 1'-0"

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REGISTERED ARCHITECT
11075
NORTH CAROLINA
RALEIGH, NC

12/13/2025

SCO#: 25-30577-01A

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
DETAILS

SHEET 21 OF 22

A4

PLOT DATE 12/13/25
REVISION ---

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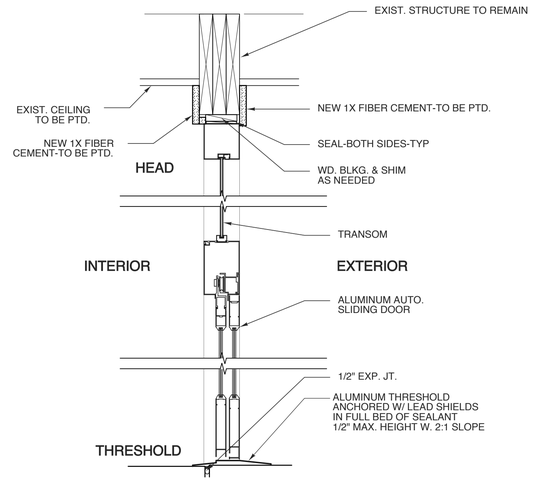
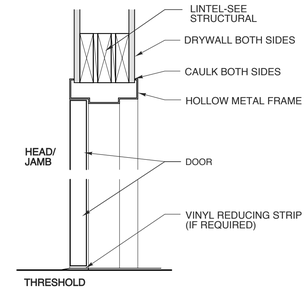
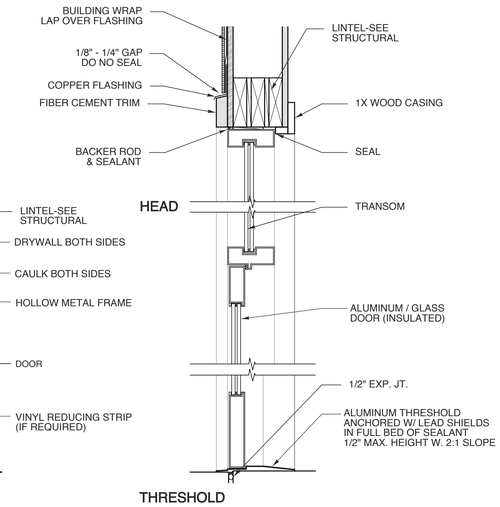


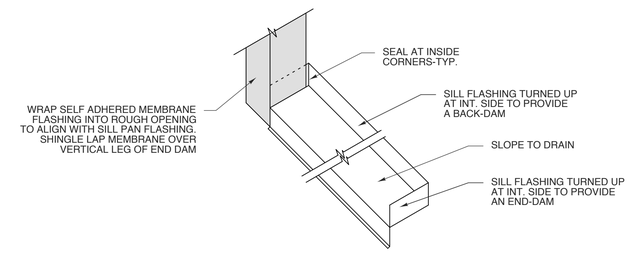
8 SLIDING DOOR-EXT.
SCALE: 1-1/2" = 1'-0"



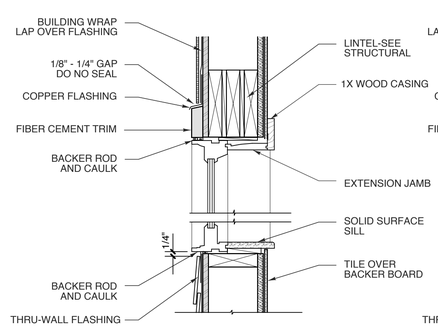
7 INT. HM FRAME
SCALE: 1 1/2" = 1'-0"



6 STOREFRONT DOOR
SCALE: 1-1/2" = 1'-0"

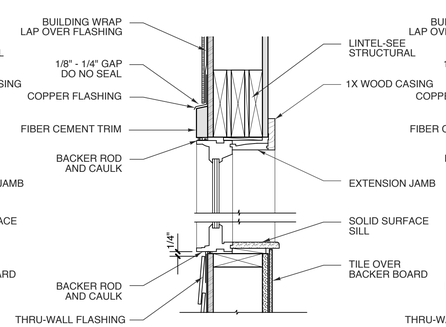


5 TYP. SILL FLASHING
SCALE: NTS



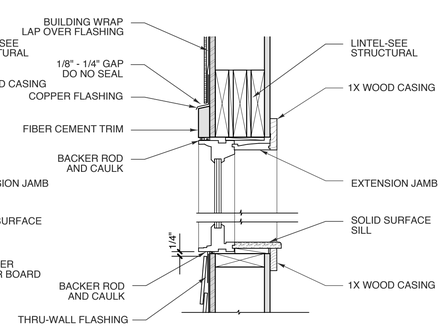
HEAD/SILL AT TILE

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



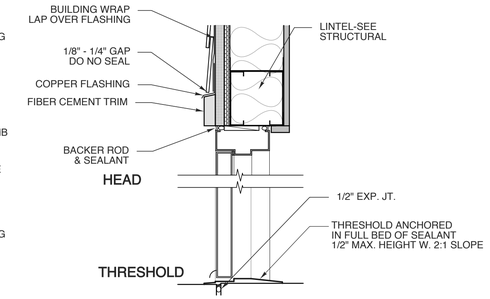
HEAD/SILL AT TILE WAINSCOT

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



HEAD/SILL AT DRYWALL

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



1 INSUL. HM DOOR (SIDING)
SCALE: 1-1/2" = 1'-0"

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TYP. DETAILS

SHEET 22 OF 22

A5

PLOT DATE 12/13/25
REVISION ---

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GENERAL STRUCTURAL NOTES

GENERAL

THESE DRAWINGS, AS INSTRUMENTS OF PROFESSIONAL SERVICE, ARE THE PROPERTY OF LYSAGHT & ASSOCIATES, P.A., FOR USE SOLELY WITH THIS PROJECT AND SHALL NOT BE REPRODUCED FOR OTHER PURPOSES.

THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE PROJECT STRUCTURAL ENGINEER-OF-RECORD (SER) WHO BEARS LEGAL RESPONSIBILITY FOR THE PERFORMANCE OF THE STRUCTURAL FRAMING RELATING TO PUBLIC HEALTH, SAFETY, AND WELFARE. NO OTHER PARTY, WHETHER OR NOT A PROFESSIONAL ENGINEER, MAY COMPLETE, CORRECT, REVISE, DELETE, OR ADD TO THESE CONSTRUCTION DOCUMENTS OR PERFORM INSPECTIONS OF THE WORK WITHOUT THE WRITTEN PERMISSION OF THE SER.

USE STRUCTURAL DRAWINGS IN CONJUNCTION WITH JOB SPECIFICATIONS, AND OTHER DRAWINGS.

SECTIONS AND DETAILS SHOWN SHALL BE CONSIDERED TYPICAL FOR ALL SIMILAR CONDITIONS.

ALL NON-STRUCTURAL ELEMENTS INDICATED ON THE STRUCTURAL DRAWINGS HAVE BEEN SHOWN IN GENERAL RELATIONSHIP TO THE STRUCTURAL ELEMENTS. THEY SHALL NOT BE ASSUMED TO BE ACCURATE AND REFERENCE MUST BE MADE TO THE APPROPRIATE CONSULTANT(S) PLANS AND SPECIFICATIONS.

CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD AND TAKE ALL NECESSARY FIELD MEASUREMENTS.

CONTRACTOR SHALL TAKE SUCH ACTION AS NECESSARY TO PREVENT MOVEMENT OF OR DAMAGE TO THE ADJACENT STRUCTURE DURING CONSTRUCTION.

THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BRACING TO STABILIZE THE BUILDING DURING CONSTRUCTION.

WHENEVER EXISTING CONSTRUCTION IS RENOVATED, THERE IS LIKELY SOME COSMETIC DEFECTS DUE TO THE AGE OF THE BUILDING THAT WILL NOT BE CORRECTED DURING THE RENOVATION. THESE DEFECTS INCLUDE SAGGING FLOORS, MINOR CRACKS IN MASONRY WALLS, CRACKS IN SHEETROCK OR PLASTER THAT IS LEFT IN PLACE, ETC. THIS IS TO BE EXPECTED BY THE OWNER, UNLESS NOTED OTHERWISE ON THE DRAWINGS.

SCOPE OF STRUCTURAL ENGINEERING SERVICES

LYSAGHT & ASSOCIATES, P.A. HAS PERFORMED THE STRUCTURAL DESIGN AND PREPARED THE STRUCTURAL WORKING DRAWINGS FOR THIS PROJECT. "CONSTRUCTION REVIEW" SERVICES ARE NOT A PART OF OUR CONTRACT.

PORTIONS OF THE STRUCTURAL DESIGN (AS NOTED ON THE DRAWINGS AND IN THESE NOTES) ARE THE RESPONSIBILITY OF THE MATERIAL SUPPLIERS. SHOP DRAWINGS FOR EACH OF THE STRUCTURAL COMPONENTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION AND ERECTION.

THE STRUCTURAL ENGINEER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, EXCEPT FOR THE COMPONENTS NOTED ABOVE. RESPONSIBILITY FOR ANY SECONDARY STRUCTURAL AND NON-STRUCTURAL SYSTEMS NOT SHOWN ON THE STRUCTURAL PLANS RESTS WITH SOMEONE OTHER THAN THE STRUCTURAL ENGINEER.

THE STRUCTURAL ENGINEER HAS NOT DONE A SUBSURFACE INVESTIGATION (HE IS NOT A SOILS SPECIALIST). THE FOUNDATION DESIGN IS BASED UPON AN ASSUMED ALLOWABLE BEARING PRESSURE AS SHOWN IN THE "FOUNDATION" STRUCTURAL NOTES. THIS ALLOWABLE BEARING PRESSURE MUST BE VERIFIED BY THE CONTRACTOR OR OWNER. IF PROBLEMS ARE ENCOUNTERED, A SOILS ENGINEER SHOULD BE RETAINED TO EVALUATE THE CONDITIONS AND RECOMMEND THE APPROPRIATE FOUNDATION SYSTEM.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURAL SLAB CONSTRUCTION FOR CONCENTRATED LOADS DUE TO VEHICULAR OR FORKLIFT TRAFFIC. THE SLAB IS DESIGNED FOR UNIFORM LOADING AS NOTED IN THE "DESIGN LOADS" PORTION OF THE STRUCTURAL NOTES AND CONCENTRATED LOADS IN ACCORDANCE WITH REQUIREMENTS OF THE BUILDING CODE.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE FOR SPECIFIC VIBRATION LIMITS. VIBRATION LIMITATIONS ARE BASED ON STANDARD ENGINEERING PRACTICES AND PAST EXPERIENCE WITH SIMILAR CONSTRUCTION.

THE STRUCTURAL ENGINEER HAS NOT DESIGNED THE STRUCTURE TO SUPPORT DYNAMIC LOADS FROM VIBRATING MACHINERY OR EQUIPMENT. ALL VIBRATING EQUIPMENT AND MACHINERY MUST BE ISOLATED FROM THE STRUCTURE.

THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK; NOR WILL HE BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

FIELD MEASUREMENTS AND THE VERIFICATION OF FIELD DIMENSIONS ARE NOT PART OF THE STRUCTURAL ENGINEER'S RESPONSIBILITY. THE CONTRACTOR MUST CHECK ALL (ASSUMED) EXISTING CONDITIONS SHOWN ON THESE DRAWINGS FOR ACCURACY AND NOTIFY THE STRUCTURAL ENGINEER OF ANY DISCREPANCIES.

ABBREVIATIONS

AB	ANCHOR BOLT	NTS	NOT TO SCALE
AFF	ABOVE FINISH FLOOR	O.C.	ON CENTER
B/B	BACK TO BACK	P.A.F.	POWDER-ACTUATED FASTENER
BOX	BOTTOM CHORD EXTENSION	P.T.	PRESSURE-TREATED
C/C	CENTER TO CENTER	SER	STRUCT. ENGINEER OF RECORD
C.J	CONTROL / CONSTR. JOINT IN SLAB	S.P.F.	SPRUCE-PINE-FIR
D.J	DOUBLE JOIST	S.Y.P.	SOUTHERN YELLOW PINE
E.J	EXPANSION JOINT	T.O.F.	TOP OF FOOTING
EOS	EDGE OF SLAB	T.O.S.	TOP OF STEEL
E.W.	EACH WAY	T.O.J.	TOP OF JOIST
JBE	JOIST BEARING ELEVATION	U.N.O.	UNLESS NOTED OTHERWISE
M.C.J	MASONRY CONTROL JOINT	W.W.F.	WELDED WIRE FABRIC

CODE

NORTH CAROLINA STATE BUILDING CODE - 2018 EDITION (IBC 2015)
STRUCTURAL LOADING PER ASCE 7-2010

BLDG RISK CATEGORY (NCSBC TABLE 1604.5) II

DESIGN LOADS

ROOF DEAD LOAD	20	PSF
ROOF LIVE LOAD	20	PSF
FLOOR DEAD LOAD	50	PSF
FLOOR LIVE LOAD (Uniform)	100	PSF
FLOOR LIVE LOAD (Concentrated)	2000	LBS
SNOW LOAD DATA :		
GROUND SNOW LOAD	15	PSF
SNOW EXPOSURE FACTOR	1.0	
SNOW LOAD IMPORTANCE FACTOR	1.0	
THERMAL FACTOR	1.1	
FLAT ROOF SNOW LOAD	15	PSF
WIND LOAD DATA :		
ULTIMATE DESIGN WIND SPEED, Vult	115	MPH
WIND EXPOSURE	B	
INTERNAL PRESSURE COEFFICIENTS	+0.18, -0.18	
WIND PRESSURE FOR COMPONENTS / CLADDING	PER ASCE 7-10	

SEISMIC LOAD DATA :		
SEISMIC IMPORTANCE FACTOR	I	1.00
MAPPED SPECTRAL RESPONSE ACCELERATION	Ss	0.212
MAPPED SPECTRAL RESPONSE ACCELERATION	S1	0.105
SITE CLASS		D
SPECTRAL RESPONSE COEFFICIENT	SDS	0.287
SPECTRAL RESPONSE COEFFICIENT	SD1	0.166
SEISMIC DESIGN CATEGORY		C

FOUNDATIONS

ALL FOOTINGS SHALL REST ON SOIL CAPABLE OF SAFELY SUPPORTING 2500 PSF. CONTACT STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED.

FOOTINGS SHALL BE CARRIED TO A LOWER ELEVATION THAN THOSE INDICATED ON THESE DRAWINGS IF NECESSARY TO REACH FIRM UNDISTURBED SOIL, AND SHALL BE COORDINATED WITH GEOTECHNICAL REPORT, IF REPORT IS PROVIDED FOR PROJECT. ANY INFORMATION IN THE GEOTECHNICAL REPORT SHALL CONTROL.

THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 16" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.

SLAB ON GRADE SHALL BE FOUNDED ON STABLE NATURAL SOIL OR CONTROLLED COMPACTED FILL. UNLESS NOTED OTHERWISE IN GEOTECHNICAL REPORT, THE MINIMUM BEARING CAPACITY OF THE SUBGRADE SHALL BE 2500 PSF.

ALL FILL SHALL BE PLACED IN 8" MAXIMUM LOOSE LIFTS AND SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM D-698 (STANDARD PROCTOR METHOD). THIS REQUIREMENT SHOULD BE INCREASED TO 98 PERCENT OF ASTM D-698 IN THE FINAL FOOT BENEATH FOOTINGS, FLOOR SLABS, AND PAVEMENTS.

CONCRETE

CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", AND ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE". ANY ADMIXTURES MUST BE APPROVED BY THE STRUCTURAL ENGINEER.

ADMIXTURES CONTAINING CHLORIDE SALTS ARE NOT PERMITTED.

MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE:

FOOTINGS	3000 PSI
SLABS ON GRADE	4,000 PSI

USE NORMAL WEIGHT CONCRETE FOR FOOTINGS AND SLABS ON GRADE. SEE SLAB ON GRADE NOTES FOR ADDITIONAL REQUIREMENTS.

CONCRETE EXPOSED TO EXTERIOR CONDITIONS SHALL BE AIR-ENTRAINED WITH A TOTAL AIR CONTENT OF 6 PERCENT (+/- 1.5%).

SLAB-ON-GRADE CONSTRUCTION

PLACE FLOOR SLAB ON A WELL COMPACTED BASE. THE SUBGRADE SHALL BE GRANULAR, NON-EXPANSIVE SOIL (THAT IS, WITHOUT CLAY), WHICH HAS BEEN COMPACTED TO AT LEAST 95%, EXCEPT 98% FOR FINAL FOOT, AND VERIFIED BY ON-SITE TESTING.

TYPICAL SLAB ON GRADE SHALL BE 4" THICK, NORMAL WEIGHT CONCRETE. REINFORCE SLAB ON GRADE WITH WELDED WIRE FABRIC (W.W.F.) PER DETAILS IN SHEETS, NOT ROLLS. PLACE W.W.F. 1.5" BELOW TOP OF SLAB, TO LIMIT THE RISK OF BEING CUT BY THE SAW JOINTS, WHICH ARE USUALLY 1/4 THE DEPTH OF THE SLAB.

CONCRETE STRENGTH SHALL BE THE STRENGTH, AS NOTED IN GENERAL NOTES, AT 28 DAYS. GENERAL CONTRACTOR SHALL USE WATER REDUCING ADMIXTURES TO REDUCE WATER, IF NECESSARY, TO INCREASE WORKABILITY AND DECREASE SHRINKAGE CRACKS.

USE 6% AIR ENTRAINMENT ON EXTERIOR SLABS. DO NOT USE AIR ENTRAINMENT ON INTERIOR SLABS (3% MAXIMUM AIR ENTRAINMENT).

CRACK CONTROL JOINTS SHALL BE PLACED IN SLABS ON GRADE AT A MAXIMUM SPACING OF 12'-0" O.C. FOR 4" THICK SLAB, UNLESS NOTED OTHERWISE. THESE CONTROL JOINTS SHALL BE BY THE GENERAL CONTRACTOR, IN ACCORDANCE WITH ACI 318. ACI STANDARD PRACTICE IS TO PLACE JOINTS 4 - 8 HOURS AFTER CONCRETE POUR.

LIGHTLY DAMPEN THE SUB-GRADE BEFORE PLACING CONCRETE TO PREVENT THE SUB-GRADE FROM ABSORBING WATER FROM CONCRETE MIX. APPLY WATER AT NEARLY THE SAME RATE IT SOAKS INTO THE SUB-GRADE SURFACE.

STEEL TROWEL THE CONCRETE TO A SHINY FINISH WHICH RESULTS IN A HARD, DENSE SURFACE. SEE ARCHITECTURAL SPECIFICATIONS FOR ALL FINISH REQUIREMENTS.

DURING HOT WEATHER, USE A FOG SPRAY TO KEEP THE SURFACE DAMP BEFORE APPLYING CURING COMPOUND.

START CURING AS SOON AS THE FINISHERS ARE DONE. APPLY THE CURING COMPOUND IN TWO COATS AT RIGHT ANGLES TO EACH OTHER AND NOT MORE THAN 300 SQUARE FEET PER GALLON, ABOUT 15 MINUTES APART.

REINFORCING STEEL

ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315.

REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. CLEAR CONCRETE COVER OVER BARS SHALL BE 3" FOR FOOTINGS.

PROVIDE CORNER BARS AT ALL FOOTING STEPS AND CORNERS. BARS SHALL BE A MINIMUM OF 2'-6" LONG AND SHALL HAVE THE SAME SIZE AND SPACING AS HORIZONTAL REINFORCING.

LAP ALL SPLICES IN CAST-IN-PLACE CONCRETE AS SPECIFICALLY CALLED FOR, BUT AT LEAST 50 BAR DIAMETERS.

PROVIDE DOWELS IN WALL FOOTINGS EQUIVALENT IN SIZE AND NUMBER TO VERTICAL STEEL EXTENDING 24 BAR DIAMETERS INTO FOOTING (UNLESS A HOOKED BAR IS PROVIDED) AND 72 BAR DIAMETERS INTO WALL, UNLESS NOTED OTHERWISE.

SUBMIT SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

STRUCTURAL STEEL

FABRICATE AND ERECT ALL STRUCTURAL STEEL IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" (ANSI/AISC 360-10)".

GENERAL CONTRACTOR TO COORDINATE SHOP COATS OF RUST-INHIBITIVE PAINT. STEEL COLUMNS BELOW GRADE THAT ARE NOT ENCASED IN CONCRETE SHALL BE FIELD PAINTED WITH A WATERPROOF MASTIC COMPOUND TO PREVENT CORROSION.

THE STEEL USED SHALL HAVE THE FOLLOWING MINIMUM YIELD STRESS:

WIDE FLANGE SHAPES ("W" SHAPES)	50 KSI (A992)
CHANNELS, ANGLES, PLATES, MISC. SHAPES	36 KSI (A36)
STRUCTURAL PIPE SHAPES	35 KSI (A53, B)
HSS TUBE SHAPES	46 KSI (A500, B or C)

USE 3/4" DIAMETER ASTM F3125 GRADE A325 BOLTS FOR ALL STEEL TO STEEL CONNECTIONS U.N.O. DESIGN FOR THREADS INCLUDED (TYPE N) CONDITIONS, U.N.O. BOLTS SHALL BE TIGHTENED TO THE SNUG TIGHT CONDITION UNLESS NOTED OTHERWISE. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PLIES IN A JOINT ARE IN FIRM CONTACT.

USE F1554 (GRADE 36) BOLTS FOR ALL ANCHOR BOLTS U.N.O.
HEADED WELD STUDS SHALL BE MADE OF MATERIAL CONFORMING TO ASTM A108.
USE E-70 ELECTRODES FOR ALL SHOP AND FIELD WELDING.

THE STEEL SUPPLIER SHALL DESIGN ALL STEEL STAIRS AND LADDERS IN ACCORDANCE WITH THE N.C. STATE BUILDING CODE. STAIR SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN NORTH CAROLINA.

FOR MISCELLANEOUS STEEL NOT SHOWN ON THESE DRAWINGS, SEE ARCHITECTURAL AND OTHER ENGINEERING DRAWINGS.

CONNECTIONS BETWEEN STRUCTURAL STEEL MEMBERS SHALL BE AS SHOWN ON STRUCTURAL DRAWING DETAILS. ALTERNATE CONNECTION DETAILS MUST BE APPROVED IN WRITING, BY THE STRUCTURAL ENGINEER OF RECORD, PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS.

SUBMIT ERECTION AND SHOP DRAWINGS TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO FABRICATION.

SOLID WOOD FRAMING, HEADERS AND PLYWOOD

ALL SOLID WOOD FRAMING SHALL COMPLY WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."

ALL SOLID FRAMING SHALL BE SPRUCE-PINE-FIR #1 (NLGA grading rules) UNLESS NOTED OTHERWISE ON THE PLANS.

PLYWOOD SHALL CONFORM TO THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION." PLYWOOD SHALL BE CDX (UNO). PLYWOOD CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APA "DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL".

ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE NORTH CAROLINA STATE BUILDING CODE.

WHEN WOOD JOISTS ARE CLOSER THAN 18", OR WOOD GIRDERS ARE CLOSER THAN 12", TO EXPOSED GROUND IN THE CRAWLSPACE, THEY SHALL BE PRESERVATIVE TREATED.

ALL JOINTS OF SOLID WOOD GIRDERS AND THE OUTSIDE MEMBERS OF BUILT-UP GIRDERS SHALL BE MADE OVER PIER OR COLUMN SUPPORTS.

MICROLLAM HEADERS (LVL'S) ARE MANUFACTURED BY Weyerhauser Level True Joist. (THE CONTRACTOR MAY SUBSTITUTE EQUIVALENT HEADERS IF PROPERLY DESIGNED BY THE MANUFACTURER.) MICRO=LAM HEADERS ARE ALWAYS DOUBLED AND MUST BE NAILED TOGETHER WITH 2 ROWS OF 10d NAILS @ 12" O.C. STAGGERED. PROVIDE CONTINUOUS LATERAL SUPPORT FOR TOP OF HEADER.

BUILT-UP STUD COLUMNS MUST BE SECURELY BOLTED AND NAILED TOGETHER TO ACT AS A COMPOSITE MEMBER. MAXIMUM BOLT SPACING IS 3'-0" WITH BOLTS AT BOTH ENDS.

WOOD SILLS SHALL BE ATTACHED TO CONTINUOUS FOUNDATION WALLS WITH 1/2" DIAMTER BOLTS SPACED NOT MORE THAN 6' APART AND WHICH ARE EMBEDDED AT LEAST 6" IN CONCRETE OR 15" IN MASONRY UNITS. ALTERNATE ATTACHMENT SYSTEMS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.

THE HEIGHT OF STUD BEARING WALLS IS LIMITED TO 10' BETWEEN LATERAL BRACING UNLESS NOTED OTHERWISE BY STRUCTURAL ENGINEER.

ALL WOOD IN CONTACT WITH MASONRY OR EXPOSED TO THE WEATHER SHALL BE PRESSURE PRESERVATIVE TREATED TO THE RETENTIONS REQUIRED BY SECTION 2303 OF THE BUILDING CODE.

NAIL SIZES SPECIFIED ON PLANS AND DETAILS ARE "STANDARD COMMON NAILS".

ALL WOOD FRAMING SHALL BE FASTENED IN ACCORDANCE WITH TABLE 2304.10.1 OF THE BUILDING CODE.

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NORTH CAROLINA PROFESSIONAL SEAL PE046123 ENGINEER MARK R. BLANKENSHIP
12/12/25

SCO#: 25-30577-01

PROJECT TITLE
POLK COUNTY
WELCOME CENTER
& REST AREA
I-26
COLUMBUS, NORTH CAROLINA

PROJECT NO.

DRAWING TITLE
WELCOME CTR
PORCH OVERBUILD

S1.0

PLOT DATE 12/12/25

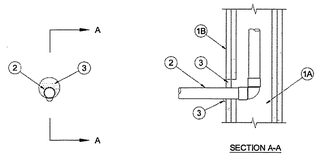
This original sheet is 24" x 36";other dimensions indicate it has been altered.

Docusign Envelope ID: A78AC5AE-3D45-4653-9A06-D6D00CA7CDAD

System No. W-L-1527

August 24, 2016

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings — 1 and 2 Hr (See Item 1)	F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 1 and 2 Hr (See Item 1)	FT Ratings — 1 and 2 Hr (See Item 1)
L Rating At Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Item 1)
L Rating At 400 F — Less Than 1 CFM/sq ft	FTH Ratings — 1 and 2 Hr (See Item 1)
	L Rating At Ambient — Less Than 5.1 L/s/m^2
	L Rating At 400 F — Less Than 5.1 L/s/m^2



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. **Studs** — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. **Gypsum Board*** — One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm).

The hourly F, T, FT, FH and FTH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Metallic Penetrant — One metallic pipe, conduit or tube to be installed either concentrically or eccentrically. penetrating wall assembly on one side of wall. The annular space between the pipe, conduit or tubing and the periphery of opening shall be min 0 in. (point contact) to max 7/8 in. (22 mm). Pipe, conduit or tubing shall be rigidly supported within the wall and on the penetrated side of the wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. **Steel Pipe** — Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe.

B. **Iron Pipe** — Nom 3 in. (76 mm) diam (or smaller) cast or ductile iron pipe.

C. **Conduit** — Nom 3 in. (76 mm) diam (or smaller) steel electrical metallic tubing (EMT), nom 3 in. (76 mm) diam steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.

D. **Copper Tubing** — Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing.

E. **Copper Pipe** — Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier) copper pipe.

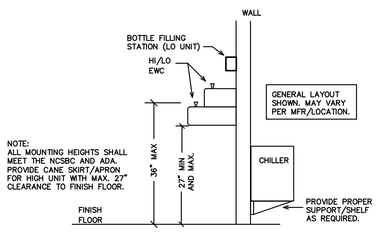
3. Fill, Void or Cavity Material* — **Sealant** — Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with surface of wall assembly. At point contact location, min 3/8 in. (10 mm) diam bead of fill material to be applied at the penetrant/gypsum board interface.
SPECIFIED TECHNOLOGIES INC — SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

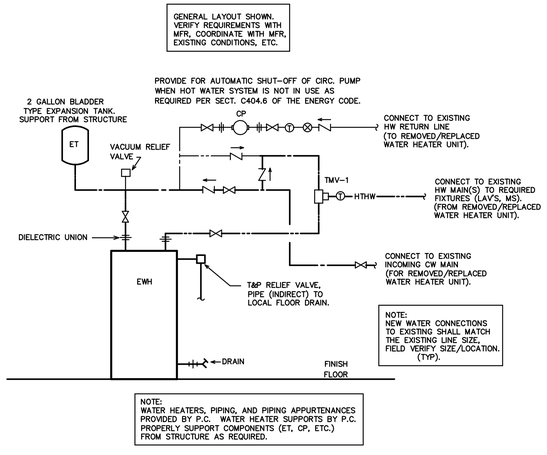
Last Updated on 2016-08-24

SYMBOL LEGEND – PLUMBING

SYMBOL	DESCRIPTION (U.O.N.)
	WASTE PIPING (W)
	VENT PIPING (V)
G	NATURAL GAS PIPING (G)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
HTHW	HIGH TEMPERATURE HW PIPING (HTHW) 125 DEG. F
LTHW	LOW TEMPERATURE HW PIPING (LTHW) 110 DEG. F
HWR	HW RETURN PIPING (HWR)
	CHECK VALVE
	BALANCING VALVE
	CIRCULATION PUMP
	SHUT-OFF VALVE
	DIELECTRIC UNION
COFF	CLEANOUT FINISH FLOOR
WCO/HCO	WALL/HORIZONTAL CLEANOUT
COFG	CLEANOUT FINISH GRADE –PROVIDE FLUSH CONCRETE COLLAR AND BRONZE COVER
	VENT THRU ROOF (VTR)
	FREEZE PROOF, HOSE BIBB (FPHB/HB)
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED
T	THERMOMETER/TEMPERATURE GAUGE (T) MOUNT IN READABLE ORIENTATION
	1 HOUR FIRE BARRIER



1 EWC DETAIL
SCALE: NOT TO SCALE



2 EWH DETAIL
SCALE: NOT TO SCALE

GENERAL NOTES – PLUMBING

1. PRE-PLAN ALL WORK PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY PART OF THE WORK DESCRIBED BY THIS DRAWING.

2. IMMEDIATELY NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING FIELD CONDITIONS OR THE WORK OF OTHER TRADES.

3. RESOLVE ALL CONFLICTS PRIOR TO INCURRING ANY MATERIAL OR LABOR EXPENSES.

4. COMPLY WITH THE MANUFACTURER'S TECHNICAL INSTRUCTIONS WHEN INSTALLING PLUMBING FIXTURES, MATERIALS, AND DEVICES.

5. LOCATE FIXTURES AND EQUIPMENT GENERALLY AS SHOWN ON THE PLANS; HOWEVER, COORDINATE LOCATIONS WITH ACTUAL FIELD CONDITIONS TO PRESERVE ALL CODE-REQUIRED AND MANUFACTURER-REQUESTED SERVICE CLEARANCES.

6. COORDINATE ROUTING OF ALL PIPING WITH BUILDING STRUCTURE AND WITH THE WORK OF OTHER TRADES. OFFSET VENT PIPING AROUND BEAMS AND JOISTS AS NECESSARY.

7. ALL HANDICAP FIXTURES AND INSTALLATION OF HANDICAP FIXTURES SHALL CONFORM TO ADA REQUIREMENTS.

8. AT EXTERIOR WALLS, INSTALL WATER PIPING ON HEATED SIDE OF WALL INSULATION.

9. PROVIDE WATER HAMMER ARRESTORS AT THE END OF EACH COLD AND HOT WATER BRANCH RISER IF REQUIRED. SIZE ARRESTOR APPROPRIATELY.

10. PROVIDE CONCRETE RING FOR ANY/ALL EXTERIOR CLEAN-OUTS.

11. REVIEW SITE PLAN FOR UTILITIES AND ORIENTATION AND VERIFY EXISTING CONDITIONS AS NEEDED PRIOR TO START OF WORK.

12. G.C. TO PROVIDE ANY/ALL ROOF PENETRATIONS.

13. VERIFY/PROVIDE HOT WATER STORAGE (EWH) TEMPERATURE AT 140 DEGREES (F). PROVIDE/VERIFY HIGH TEMPERATURE HOT WATER (HTHW) AT 125 DEGREES (MAX.) F, PROVIDE/VERIFY LOW TEMPERATURE HOT WATER (LTHW) AT 110 DEGREES (MAX.) F TO ALL LAVATORY FAUCETS AT 110 DEGREES (MAX.) F. VERIFY ALL EXISTING HW SYSTEM COMPONENTS TO REMAIN (SHUT-OFF/RELIEF/MIXING/CHECK VALVES, CIRC. PUMPS, TEMPERATURE GAUGES, ETC.), ARE IN PROPER/WORKING CONDITION. REPLACE/PROVIDE ANY ITEMS IF/AS REQUIRED FOR THE HW (EWH) CIRC. SYSTEM. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE (TMV) FOR EACH LAV FAUCET FOR LTHW OUTLFOW (ONLY). TMV'S MAY BE INTEGRATED WITH FIXTURE/FAUCET OR LOCATE TMV'S IN A MAINTENANCE (ONLY) ACCESSIBLE AREA BELOW LAV, ABOVE CEILING, OR AS REQUIRED. PROVIDE LOCKABLE ACCESS DOOR IF/AS REQUIRED PER OWNER/ARCH. VERIFY LTHW FROM ALL LAVATORY FAUCETS. ANY OTHER REQUIRED FIXTURES (VERIFY). PROVIDE/VERIFY ASSE 1070 THERMOSTATIC MIXING VALVE WHERE REQUIRED, ASSE 1017 WHERE REQUIRED, AND PER CODE WHETHER OR NOT SHOWN OR NOTED ON PLANS.

14. PROPERLY SEAL ALL PIPING PENETRATIONS PER APPLICABLE PENETRATION SYSTEM DETAIL (THIS SHEET) THROUGH FIRE BARRIER WALLS/FLOORS/CEILINGS– ALL MAY NOT BE SHOWN. VERIFY RATINGS/BARRIERS W/ARCH. PROVIDE CAST IRON FOR ALL DWV PIPING THROUGH FIRE BARRIERS.

PLUMBING FIXTURE SCHEDULE *

MARK	DESCRIPTION	ALTERNATE MANUFACTURER/MODEL	ALTERNATE MANUFACTURER/MODEL
CP	CIRCULATING PUMP BELL & GOSSET, SERIES NBF-22 IN-LINE CIRCULATOR PUMP, 1/12 HP, 115 VAC, FLA=0.8 1 Ph., 3/4" CONN., WITH A MAXIMUM OF 22 GPM AND 15' TDH. PUMP TO BE ALL BRONZE CONSTRUCTION, COORDINATE WITH ELEC. CONTRACTOR FOR POWER FEED. PROVIDE DISCONNECT SWITCH, AQUASTAT CONTROL, THERMOMETER/TEMPERATURE GAUGES.	TACO MODEL #110.	ARMSTRONG MODEL #S-25.
EWC	ELECTRIC WATER COOLER W/SENSOR BOTTLE FILLER (HI-LO ADA, HIGH UNIT CANE SKIRT) HAWS ADA COMPLIANT CHILLED VANDAL-RESISTANT FOUNTAIN AND MOTION-ACTIVATED BOTTLE FILLER, MODEL H1119.BP. PROVIDE SK1 CANE SKIRT. PROVIDE CHILLER, ALL REQUIRED OPTIONS/COMPONENTS– VERIFY MODEL FOR HI/LO LOCATIONS (1-LOW/ADA HEIGHT, 1-HIGH) AND FACE PLATE CONFIGURATION (PER CHILLER LOCATION)– COORDINATE W/ARCHITECT FOR HI/LO LOCATIONS AND MOUNTING HEIGHTS.	ELKAY MODEL #LZVRSM-EDPFVM217D1LK, PROVIDE REMOTE CHILLER.	OASIS MODEL #M8CREBQ. STNLS. STL. ACCESSORY APRON.
EWH	ELECTRIC WATER HEATER AO SMITH WATER HEATER MODEL #DEN-52, 50 GALLONS, 4500 WATT, 240 VOLT, 1 PHASE, NON-SIMULTANEOUS DUAL ELEMENTS, 3/4" INLET/OUTLET, AO SMITH MODEL #PMC-2 EXPANSION TANK.	BRADFORD WHITE #LD-50R3-3. AMTROL ST-5-C EXPANSION TANK.	STATE #ES6-50-DORT. STATE ETC-2X EXPANSION TANK.
HB	HOSE BIBB WOODFORD MODEL 24 ANTI-SIPHON HOSE BIBB W/VACUUM BREAKER. VERIFY OUTLET CONNECTION SIZE, MOUNTING LOCATION.	ZURN #Z1341XL.	PRIER #C-158.
L1	LAVATORY (ACCESSIBLE, WALL HUNG) AMERICAN STANDARD "LUCERNE" # 0356.421 WHITE WITH CONCEALED ARM CARRIER AND DRAIN ASSEMBLY (7723.018). ADA COMPLIANT. FURNISH WITH SLOAN OPTIMA EAF-275 SOLAR POWERED SENSOR FAUCET WITH ASSE 1070 INTEGRATED THERMOSTATIC MIXER, AERATED 0.5 GPM, VERIFY FINISH, OPTIONS WITH ARCHITECT.	KOHLER GREENWICH #K-2032 WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	ELJER MURRAY II #051-0244 WITH TOTO TEL3GS10 SOLAR SENSOR FAUCET.
L2	TWO STATION LAVATORY (ACCESSIBLE) WILLOUGHBY MODEL WAW-2322-DMF TWO STATION LAVATORY. ADA COMPLIANT. PROVIDE TWO DRAINS W/GRID STRAINERS, VERIFY COLOR, ALL OPTIONS (FAUCET HOLE DRILLING, ETC.) WITH ARCHITECT. PROVIDE SLOAN EAF-275 SOLAR SENSOR FAUCETS (2 PER STATION UNIT) WITH ASSE 1070 INTEGRATED THERMOSTATIC MIXER, AERATED 0.5 GPM, VERIFY FINISH, ALL OPTIONS WITH ARCHITECT.	SLOAN SLOANSTONE #ELS-72000 WITH HYDROTEK 7000SLE SOLAR SENSOR FAUCET.	BRADLEY EXPRESS #ELX-2 WITH TOTO TEL3GS10 SOLAR SENSOR FAUCETS.
MS	TERRAZZO MOP SINK BASIN W/FAUCET BASIN- FLORESTONE MODEL 81, 24" X 24" X 6" TERRAZZO MOP RECEPTOR, 3" DRAIN SIZE- VERIFY MATCHES EXISTING CONNECTION SIZE. INTEGRAL DRAIN MAY REQUIRE A MINIMUM 6" DIAMETER X 1 1/2" DEEP RECESS IN SUBFLOOR. LEVEL AS NEEDED, USE WEDGE-LOCK SEAL PER MFR'S INSTRUCTIONS. USE WATER TO CHECK FOR PROPER DRAINAGE UPON CONNECTION TO EXISTING PIPING AND PRIOR TO WALL FINISHING. VERIFY SIZE PRIOR TO ORDERING. PROVIDE NEW WALL SPLASHGUARDS IF REQUIRED PER ARCH. FAUCET- SPEAKMAN MODEL MR-371 FAUCET WITH VACUUM BREAKER. PROVIDE 5' HOSE WITH HANGER BRACKET AND MOP HANGER IF REQUIRED, VERIFY WITH OWNER AND ARCHITECT.	ZURN Z1996-24 BASIN WITH Z1996-24-SF FAUCET	MUSTEE 63M BASIN WITH 63.600A FAUCET.
TMV-1	THERMOSTATIC MIXING VALVE #1 (ASSE 1017) WATTS SERIES LFMMV MIXING VALVE WITH CHECK VALVES. INSTALL IN MAINTENANCE ACCESSIBLE LOCATION AS REQUIRED. SET HW OUTFLOW TO SPECIFIED TEMPERATURE FOR HTHW- 125 DEG. F (MAX.).	TACO 5000 SERIES.	LEONARD TM SERIES.
TMV-2 ◊	THERMOSTATIC MIXING VALVE #2 (ASSE 1070) WATTS LFUSG-9 'LEAD FREE' GUARDIAN. INSTALL IN MAINTENANCE ACCESSIBLE ONLY LOCATION BELOW LAV/SINK OR AS REQUIRED. SET HW OUTFLOW TO SPECIFIED TEMPERATURE FOR LTHW- 110 DEG. F (MAX.).	TACO 5120 SERIES.	LEONARD LF170 SERIES.
UR **	URINAL (HIGH EFFICIENCY) AMERICAN STANDARD "DECORUM" #6043.001EC, 0.125 GPF, VITREOUS CHINA, 3/4" BACK SPUD. PROVIDE SLOAN #195-0.125-ES-S-OR AC POWERED SENSOR FLUSH VALVE W/MANUAL OVERRIDE, ADA COMPLIANT. PROVIDE VANDAL-RESISTANT STAINLESS STEEL STRAINER #7381755-200.0020A. INSTALL AT PROPER MOUNTING HEIGHT FOR ADA AND NON-ADA LOCATIONS, COORDINATE WITH ARCHITECT. PROVIDE ZURN #Z1222 CARRIER WITH OPTIONS AS REQUIRED, VERIFY CARRIER COMPATABILITY WITH EXISTING CONDITIONS, REPLACE PIPING AS NEEDED.	KOHLER DEXTER K-5452-ER WITH HYDROTEK HS-DIB-0125 FLUSH VALVE. WATTS CA-321 CARRIER.	TOTO #105UVG WITH AMERICAN STANDARD SELECTRONIC #6062.301.007 FLUSH VALVE. JAY R. SMITH 0637 CARRIER.
WC1 **	WATER CLOSET (FLOOR MOUNT REAR OUTLET W/BACK SPUD) AMERICAN STANDARD "PRIOLO FLOWISE" #3697.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, WITH 1-1/2" BACK SPUD. ADA COMPLIANT. PROVIDE OPEN FRONT SEAT. PROVIDE SLOAN OPTIMA MODEL #140-1.28-ES-S (AC POWERED) SENSOR FLUSH VALVE WITH MANUAL OVERRIDE. PROVIDE ZURN #Z1202-N4-FMBO FIXTURE CARRIER WITH VANDAL-PROOF TRIM. VERIFY CARRIER COMPATABILITY WITH EXISTING CONDITIONS, REPLACE PIPING AS NEEDED.	ZURN Z5647-BWL FIXTURE, ZURN #ZEMS6152AV-HET, 1.28 GPF VALVE. WATTS ISCA-121-BF CARRIER.	SLOAN ST-2539-LR FIXTURE, HYDROTEK H-8CB-128, 1.28 GPF VALVE. JAY R. SMITH 0675 CARRIER.
WC2 **	WATER CLOSET (WALL MOUNT BACK SPUD) W/HEAVY DUTY RATED (500 LB.) FIXTURE CARRIER AMERICAN STANDARD "AFWALL FLOWISE" #3353.128, ELONGATED BOWL, 1.28 GPF, ADA COMPLIANT, VITREOUS CHINA, WITH 1-1/2" BACK SPUD. PROVIDE OPEN FRONT SEAT. PROVIDE SLOAN OPTIMA MODEL #152-1.28-ES-S (AC POWERED) SENSOR FLUSH VALVE WITH MANUAL OVERRIDE. PROVIDE ZURN #Z1204-N4-X , 4" ADJUSTABLE VERTICAL NO HUB FIXTURE CARRIER, W/HEAVY-DUTY 500 LB. REAR ANCHOR, VANDAL-PROOF TRIM. VERIFY CARRIER COMPATABILITY WITH EXISTING CONDITIONS, REPLACE PIPING AS NEEDED. PROVIDE ADA COMPLIANT INSTALL WHERE REQUIRED (FAMILY ROOM 105).	ZURN #Z5617 FIXTURE. ZURN #ZEMS6140AV FLUSH VALVE. WATTS ISCA-121 CARRIER.	KOHLER KINGSTON #K-4329 FIXTURE. HYDROTEK H-8000C-CB FLUSH VALVE. JAY R. SMITH 230Y CARRIER.

* OR APPROVED EQUAL. VERIFY ALL NEW FIXTURE REPLACEMENTS PROPERLY COVER ANY EXISTING/REUSED OPENINGS, MOUNTING LOCATIONS, ETC. VERIFY FINAL FINISHES AND REQUIREMENTS W/ARCHITECT, AND BLDG. OWNER.

** VERIFY FLUSH VALVE SENSOR WALL PLATE COVERS ANY NEW OR EXISTING TILE/OPENINGS IN WALL FOR EACH UNIT. COORDINATE W/EXISTING CONDITIONS, ARCHITECT, G.C., BLDG. OWNER. PROVIDE FINAL FINISHES AS REQUIRED.

◊ NOT REQUIRED FOR FAUCET MODELS WITH INTEGRAL ASSE 1070 MIXING VALVES INCLUDED.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE

DocuSigned by: C0376151B0F3405...
12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404C

DRAWING TITLE
PLUMBING SPECIFICATIONS

P1

PLOT DATE 11/18/2025

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KEY NOTES FOR SHEET P2

1. WATER CLOSET TO BE REMOVED.
2. LAVATORY TO BE REMOVED.
3. URINAL TO BE REMOVED.
4. ELECTRIC WATER HEATER TO BE REMOVED. EXISTING CIRCULATION PUMP, TEMPERING VALVE, EXPANSION TANK (ALL NOT SHOWN) TO BE REMOVED. EXISTING HW CIRCULATION SYSTEM TO BE REPIPED PER EWH DETAIL (SHEET P1) AND PLBG. PLAN (SHEET P3).
5. MOP SINK W/WALL FAUCET TO BE REMOVED.
6. ELECTRIC WATER COOLER TO BE REMOVED.
7. EXISTING BUILDING CW METER/BACKFLOW PREVENTER (RPZ) TO REMAIN.
8. EXISTING ROUND FLOOR DRAIN STRAINER TO BE REMOVED (REPLACED – SEE P3).
9. EXISTING HVAC (NATURAL) GAS PACKAGE UNIT (GPU) TO BE REMOVED.
10. EXISTING 2 PSI GAS METER TO REMAIN. REMOVE ALL EXISTING NAT. GAS PIPING (NOT SHOWN) TO GPU'S.

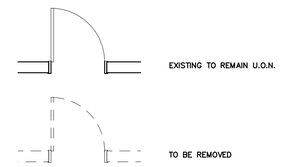
NOTE:
ANY EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS–

REMOVE EXISTING FIXTURES IN WORK AREA AS SHOWN. PROVIDE CLEANOUTS ON UNUSED DRAIN LINES AT FINAL FINISHES TO PREVENT DEAD–ENDS PER CODE. REMOVE UNUSED VENT LINES TO ABOVE CEILING AND CAP AT MAIN. REMOVE ALL UNUSED CW & HW LINES/STUB–OUTS, ETC., AND CAP LINES BEHIND FINAL FINISHES. REMOVE ALL UNUSED NATURAL GAS LINES, STUB–OUTS, ETC., CAP LINES AT MAINS/ BEHIND FINAL FINISHES. REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILINGS AS REQUIRED TO LOCATE EXISTING LINES/INSTALL NEW LINES. COORDINATE WITH NEW PLANS FOR LINES TO BE REUSED. ALL REQUIRED PLUMBING DEMO ITEMS MAY NOT BE INDICATED. VERIFY ITEMS TO BE REMOVED.

IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK, THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C. THE PLUMBING CONTRACTOR SHALL LOCATE, TRACE, AND INSPECT FOR PROPER DRAINAGE AND CONDITION, ANY/ALL EXISTING BUILDING DRAINAGE LINES AND SYSTEMS (SANITARY, GREASE, ETC.) THAT ARE TO BE UTILIZED BY THE OCCUPANT/NEW CONNECTIONS PER DESIGN DRAWINGS THROUGH USE OF CAMERA, DYES, AND/OR ANY MEANS NECESSARY– PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL REMEDY ANY ISSUES IN ORDER TO ENSURE A PROPER FUNCTIONING, CODE COMPLIANT SYSTEM, WHICH INCLUDES BUT IS NOT LIMITED TO, JETTING OF LINES, REMOVAL OF DEBRIS, REPLACEMENT OF ANY IMPROPER OR DAMAGED PIPING. VERIFY AVAILABLE DEPTH/INVERT REQUIREMENTS, FLOW DIRECTION OF EXISTING LINES, PROVIDE DOCUMENTATION TO THE ENGINEER FOR REVIEW. THE EXISTING AND NEW DRAINAGE SYSTEMS/CONNECTIONS SHALL BE TESTED FOR PROPER OPERATION UPON COMPLETION OF WORK. ALL ISSUES AND SOLUTION OPTIONS ARE TO BE COORDINATED WITH THE DRAINAGE SYSTEM/BUILDING OWNER, G.C., ARCHITECT, AND ENGINEER. PROVIDE AS–BUILT DRAWINGS FOR ENGINEER REVIEW.

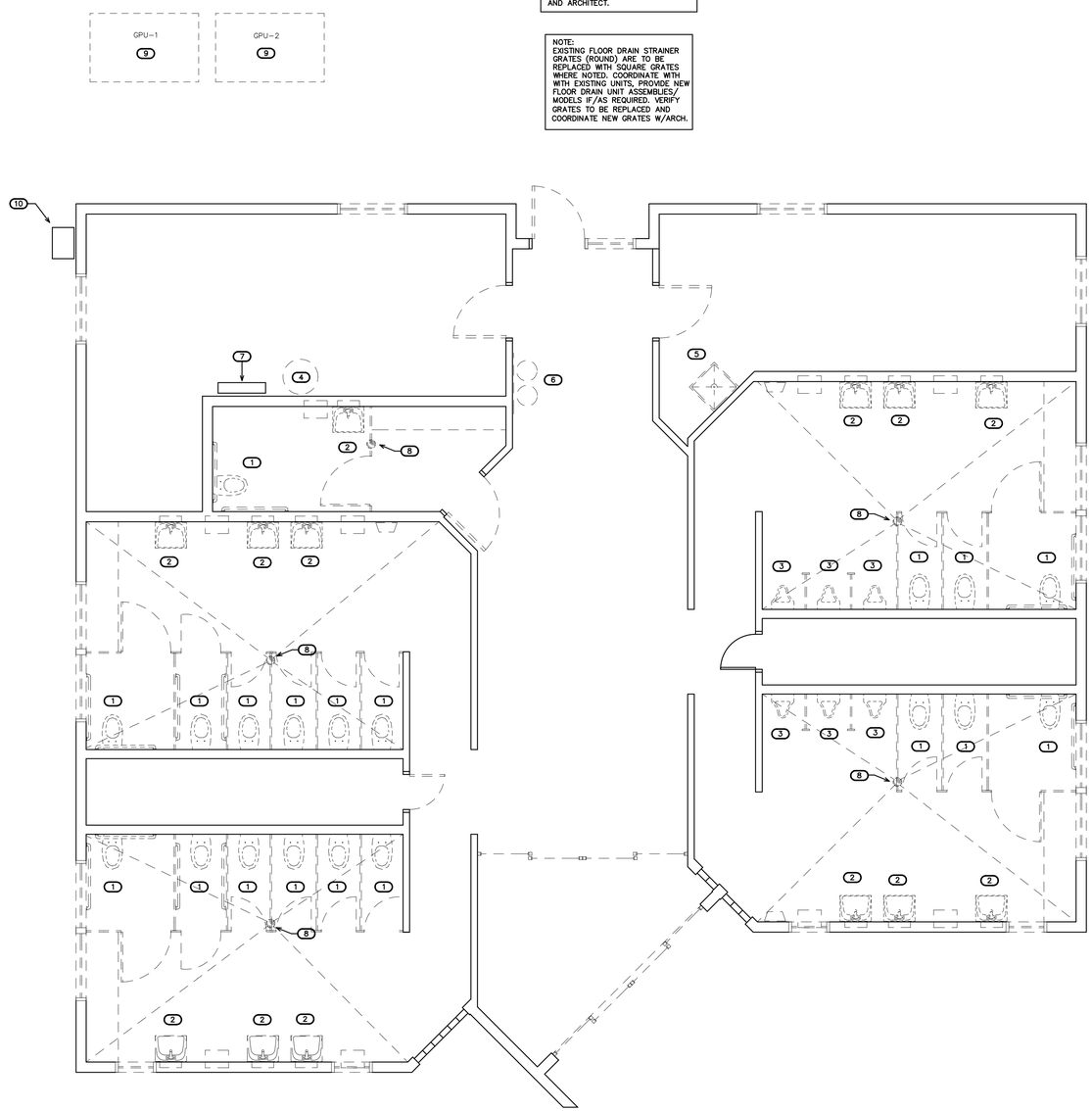
COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.



NOTE:
ALL PLUMBING FIXTURES (PIPING, ETC.) TO REMAIN OR TO BE REMOVED MAY NOT BE SHOWN. COORDINATE WITH DEMO/NEW PLANS, FIELD CONDITIONS. VERIFY ITEMS/LINES TO BE REMOVED. SALVAGE ALL PLUMBING FIXTURES DEMO'D AND TURN OVER TO THE OWNER. COORDINATE WITH OWNER, ARCHITECT, FOR ANY ITEMS TO BE RELOCATED. REPLACE UNUSABLE ITEMS, ETC., IF/AS REQUIRED.

NOTE:
EXISTING FLOOR DRAINS TO REMAIN ARE NOT ALL SHOWN. COORDINATE W/NEW PLANS. REPAIR/REPLACE ANY ITEMS (STRAINER GRATES, ETC.) IF REQUIRED, COORDINATE WITH OWNER AND ARCHITECT.

NOTE:
EXISTING FLOOR DRAIN STRAINER GRATES (ROUND) ARE TO BE REPLACED WITH SQUARE GRATES WHERE NOTED. COORDINATE WITH WITH EXISTING UNITS, PROVIDE NEW FLOOR DRAIN UNIT ASSEMBLIES/ MODELS IF/AS REQUIRED. VERIFY GRATES TO BE REPLACED AND COORDINATE NEW GRATES W/ARCH.



1 DEMO PLAN - RESTROOM BUILDING
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE

DocuSigned by:
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12/13/2025

SCO#25–30577–01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I–26
CITY, NORTH CAROLINA

PROJECT NO.
2404C

DRAWING TITLE
RESTROOM BUILDING DEMOLITION PLAN

P2

PLOT DATE 11/18/2025

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(VERIFY ALL EQUIPMENT REQUIREMENTS PRIOR TO ROUGH-IN)

PIPE SIZING SCHEDULE

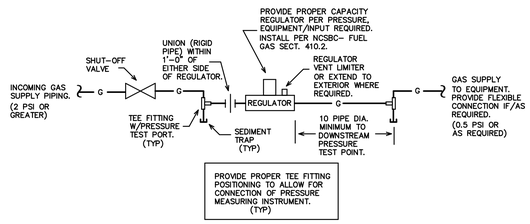
FIXTURE TYPE	DRAIN	VENT	CW	HW
(EWC) ELECTRIC WATER COOLER	1 1/4"	1 1/4"	1/2"*	–
(HB) HOSE BIBB	–	–	1/2"	–
(L) LAVATORY/LAV STATION	1 1/2"	1 1/4"	1/2"	1/2"
(MS) MOP SINK	3"	1 1/2"	1/2"	1/2"
(UR) URINAL	2"	1 1/4"	3/4"	–
(WC) FLUSH VALVE WATER CLOSET	3"	1 1/2"	1"	–

* PROVIDE BACKFLOW PREVENTER PER NCSBC-PLUMBING SECT. 608.3, EX: ASSE 1024 (WATTS SERIES 7 OR EQUAL) ASSE 1022 (WATTS SERIES SD-3 EQUAL) ETC., WHERE REQUIRED IF NOT AN INTEGRAL PART OF THE EQUIPMENT.

PIPE SIZING NOTES:

REPRESENTATIVE SIZES ARE GIVEN FOR EACH TYPE OF FIXTURE. SEE PIPE SIZING SCHEDULE.
MINIMUM 2" DRAIN LINE SIZE UNDER SLAB.
MAINTAIN PIPE SIZES SHOWN UNTIL LARGER SIZE IS REACHED.
PIPE SIZES ARE MINIMUMS FOR INDIVIDUAL FIXTURES U.O.N.

GENERAL FUEL GAS EQUIPMENT AND/OR LINE CONNECTION W/REGULATOR. VERIFY REQUIREMENTS, COORDINATE WITH ANY/ ALL EQUIPMENT. INSTALL CONNECTION PER 2018 NCSBC- FUEL GAS CODE.



3 NAT. GAS EQUIPMENT CONNECTION DETAIL
SCALE: NOT TO SCALE

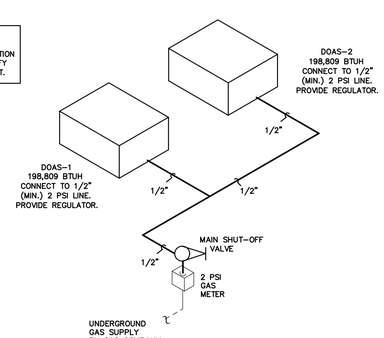
2018 NCSBC, FUEL GAS CODE- TABLE 402.4(5)

NOTE:
GAS PIPE SIZES BASED UPON AN INITIAL PRESSURE OF 2 PSI AND A PRESSURE DROP OF 1 PSI AT 40 FEET IN DEVELOPED LENGTH. PIPE SIZES SHOWN ARE NOMINAL INSIDE DIAMETER.
TOTAL CONNECTED LOAD (OVERALL) = 397.6 BTUH

NOTE:
GAS PIPING SHALL BE BLACK STEEL, SCHEDULE 40 WITH SCREWED (LESS THAN 2-1/2" DIA. PIPING) OR WELDED (GREATER THAN OR EQUAL TO 2-1/2" DIA. PIPING) FITTINGS. TEST, LABEL AND INSTALL ALL PIPING PER THE NCSBC.

NOTE:
NATURAL GAS PRESSURE TO TENANT SPACE IS TO BE AT 2 PSI. PROVIDE PROPER REGULATORS AT EACH PIECE OF GAS EQUIPMENT. VENT REGULATORS TO EXTERIOR IF REQUIRED. PROVIDE PROPER LABELING ON 2 PSI PIPING. PROVIDE REGULATOR/CONNECTION PER NCSBC- FUEL GAS SECT. 410.2 AND ALL OTHER APPLICABLE SECTIONS. EQUIPMENT CONNECTIONS/REGULATORS NOT SHOWN ON RISER- SEE CONNECTION DETAIL THIS SHEET.

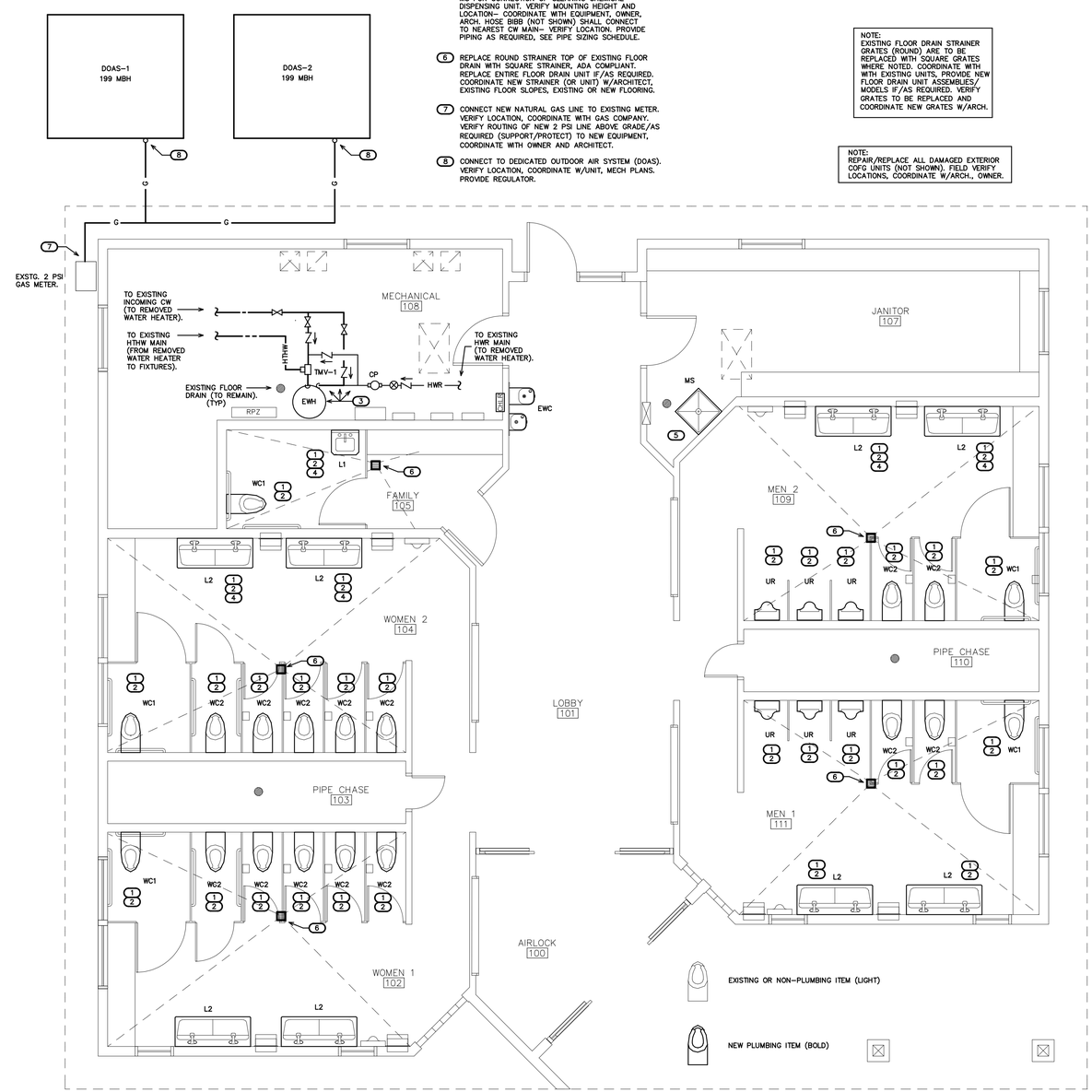
NOTE:
PROVIDE REGULATOR, SHUT-OFF VALVE, DIRTLEG, UNION, AND FLEXIBLE CONNECTION OR AS REQUIRED TO DOAS UNITS. VERIFY CONNECTION TYPE/SIZE WITH EQUIPMENT.



2 NATURAL GAS RISER
SCALE: NOT TO SCALE

NOTE:
NATURAL GAS SERVICE IS TO BE AT 2 PSI. PROVIDE PROPER LABELING ON ALL GAS PIPING. PROVIDE PROPER REGULATORS AT ALL EQUIPMENT CONNECTIONS. PAINT ANY INTERIOR OR EXTERIOR EXPOSED GAS LINES PER CODE AND THE BUILDING STANDARD. PROPER STAND-OFFS/SUPPORTS FOR GAS LINES ON ROOF/EXTERIOR WALLS, BELOW ROOF, ETC. PROVIDE PROPER BRANCH LINE SHUT-OFF VALVES. VALVES/REGULATORS MAY NOT BE SHOWN. VERIFY ALL GAS LINE ROUTING- ABOVE GRADE PIPING SHOWN, BELOW GRADE MAY BE NEEDED, COORDINATE WITH ARCHITECT, OWNER, EXISTING/NEW CONDITIONS, ALL TRADES.

UNDERGROUND STEEL GAS PIPING CORROSION PROTECTION:
PIPE SHALL HAVE A FACTORY-APPLIED, ELECTRICALLY-INSULATING COATING. FITTINGS AND JOINTS BETWEEN SECTIONS OF COATED PIPE SHALL BE COATED IN ACCORDANCE WITH THE COATING MFR SPECS. UNDERGROUND PIPING SYSTEMS SHALL BE INSTALLED A MIN. DEPTH OF 12 INCHES BELOW GRADE, AND SHALL BE REPUBLIC STEEL X-TRU-COAT (OR EQUAL), PLASTIC COATED SCHEDULE 40 ASTM A-53 STEEL PIPE W/WELDED JOINTS, USING X-TRU-TAPE AND PRIMER AT EACH JOINT. WRAP JOINTS SPIRALLY WITH A MINIMUM OVERLAP OF 1/2 TAPE WIDTH. EXTEND WRAP NOT LESS THAN 3" ABOVE GRADE. PROVIDE HIGH VOLTAGE HOLIDAY DETECTOR TEST OF COATING TO CHECK FOR HOLIDAYS. PROVIDE CATHODIC PROTECTION TO MEET REQUIREMENTS OF NACE STANDARD RP0169. ALL UNDERGROUND GAS PIPING PROTECTION SHALL COMPLY WITH NCSBC FUEL GAS SECT. 404.



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

KEY NOTES FOR SHEET P3

1. CONNECT NEW FIXTURE TO EXISTING HW AND/OR CW IN AREA OF REMOVED UNIT. EXTEND/PROVIDE PIPING AS REQUIRED. VERIFY EXISTING LINE SIZE REQUIRED PER PIPE SIZING SCHEDULE (THIS SHEET), REPIPE NEW FIXTURE WATER SUPPLY TO NEAREST EXISTING HW AND/OR CW MAIN IF NECESSARY/AS REQUIRED.
2. CONNECT NEW FIXTURE TO EXISTING DWV IN AREA OF REMOVED UNIT. EXTEND/PROVIDE PIPING AS REQUIRED. VERIFY EXISTING LINE SIZES REQUIRED PER PIPE SIZING SCHEDULE (THIS SHEET), REPIPE NEW FIXTURE DWV TO NEAREST EXISTING MAINS IF NECESSARY/AS REQUIRED.
3. REPLACE EXISTING UNIT AND CONNECT NEW EWH TO EXISTING HW/CW/HWR IN AREA OF REMOVED UNIT. REPLACE EXISTING HW CIRCULATION PUMP, TMV, AND ASSOCIATED SYSTEM COMPONENTS- ALL VALVES, ETC., NOT SHOWN FOR CLARITY. ALL NEW CONNECTIONS TO EXISTING MAINS (CW, HW, HWR) TO PREVIOUS WATER HEATER UNIT ARE NOT SHOWN, MATCH EXISTING SIZES- PROVIDE ALL SYSTEM COMPONENTS, REPIPE PER EWH DETAIL ON SHEET P1. EXTEND/PROVIDE NEW PIPING AS REQUIRED, FIELD VERIFY EXTENT OF NEW WORK AND INSTALLATION CLEARANCES REQUIRED.
4. VERIFY/PROVIDE ASSE 1070 TMV-2 AT LAVATORY FOR 110 DEG. F (MAX) LTHW ONLY TO SENSOR FAUCET, LOCATE (NOT SHOWN) IN A PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED. PROVIDE TMV FOR EACH FAUCET IN L2 AS REQUIRED. TMV-2 ADDITION NOT REQUIRED IF ASSE 1070 MIXING VALVE FOR LTHW IS PROVIDED WITH FAUCET MODEL.
5. PROVIDE WALL-MOUNTED HOSE BIBB (HB) ABOVE MS FOR CONNECTION OF CLEANING CHEMICAL DISPENSING UNIT. VERIFY MOUNTING HEIGHT AND LOCATION- COORDINATE WITH EQUIPMENT, OWNER, ARCH. HOSE BIBB (NOT SHOWN) SHALL CONNECT TO NEAREST CW MAIN- VERIFY LOCATION. PROVIDE PIPING AS REQUIRED, SEE PIPE SIZING SCHEDULE.
6. REPLACE ROUND STRAINER TOP OF EXISTING FLOOR DRAIN WITH SQUARE STRAINER, ADA COMPLIANT. REPLACE ENTIRE FLOOR DRAIN UNIT IF/AS REQUIRED. COORDINATE NEW STRAINER (OR UNIT) W/ARCHITECT, EXISTING FLOOR SLOPES, EXISTING OR NEW FLOORING.
7. CONNECT NEW NATURAL GAS LINE TO EXISTING METER. VERIFY LOCATION, COORDINATE WITH GAS COMPANY. VERIFY ROUTING OF NEW 2 PSI LINE ABOVE GRADE/AS REQUIRED (SUPPORT/PROTECT) TO NEW EQUIPMENT, COORDINATE WITH OWNER AND ARCHITECT.
8. CONNECT TO DEDICATED OUTDOOR AIR SYSTEM (DOAS). VERIFY LOCATION, COORDINATE W/UNIT, MECH PLANS. PROVIDE REGULATOR.

NOTE:
ANY EXISTING INFORMATION SHOWN ON THIS SHEET IS FROM FIELD INVESTIGATION. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION. THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES NOTED.

REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILINGS, ETC., AS REQUIRED TO LOCATE EXISTING LINES AND INSTALL NEW LINES.

IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO LOCATE ANY AND ALL EXISTING BUILDING SYSTEMS IN CONCRETE, FLOORS, WALLS, CEILINGS, ETC., PRIOR TO START OF WORK, THAT MAY BE ENCOUNTERED DURING CONSTRUCTION TO DETERMINE METHODS REQUIRED TO AVOID AND/OR MAINTAIN EXISTING SYSTEMS OPERATION. COORDINATE WITH BLDG. OWNER, ARCH., G.C. THE PLUMBING CONTRACTOR SHALL LOCATE, TRACE, AND INSPECT FOR PROPER DRAINAGE AND CONDITION, ANY/ALL EXISTING BUILDING DRAINAGE LINES AND SYSTEMS (SANITARY, GREASE, ETC.) THAT ARE TO BE UTILIZED BY THE OCCUPANT/NEW CONNECTIONS PER DESIGN DRAWINGS THROUGH USE OF CAMERA, DYES, AND/OR ANY MEANS NECESSARY- PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL REMEDY ANY ISSUES IN ORDER TO ENSURE A PROPER FUNCTIONING, CODE COMPLIANT SYSTEM, WHICH INCLUDES BUT IS NOT LIMITED TO, JETTING OF LINES, REMOVAL OF DEBRIS, REPLACEMENT OF ANY IMPROPER OR DAMAGED PIPING. VERIFY AVAILABLE DEPTH/INVERT REQUIREMENTS, FLOW DIRECTION OF EXISTING LINES, PROVIDE DOCUMENTATION TO THE ENGINEER FOR REVIEW. THE EXISTING AND NEW DRAINAGE SYSTEMS/CONNECTIONS SHALL BE TESTED FOR PROPER OPERATION UPON COMPLETION OF WORK. ALL ISSUES AND SOLUTION OPTIONS ARE TO BE COORDINATED WITH THE DRAINAGE SYSTEM/BUILDING OWNER, G.C., ARCHITECT, AND ENGINEER. PROVIDE AS-BUILT DRAWINGS FOR ENGINEER REVIEW.

COORDINATE WORK WITH BUILDING OWNER SO AS NOT TO IMPACT OPERATION OF ANY ADJACENT SPACES/LEVELS. NIGHT AND WEEKEND WORK MAY BE REQUIRED.

NOTE:
EXTEND/SHIFT ANY DWV OR WATER SUPPLY PIPING AS NEEDED DUE TO ANY DEMO OR NEW WORK. COORDINATE WITH ARCH., G.C., OWNER, AND ALL TRADES.

NOTE:
EXISTING FLOOR DRAIN STRAINER GRATES (ROUND) ARE TO BE REPLACED WITH SQUARE GRATES WHERE NOTED. COORDINATE WITH WITH EXISTING UNITS, PROVIDE NEW FLOOR DRAIN UNIT ASSEMBLIES/ MODELS IF/AS REQUIRED. VERIFY GRATES TO BE REPLACED AND COORDINATE NEW GRATES W/ARCH.

NOTE:
REPAIR/REPLACE ALL DAMAGED EXTERIOR COFG UNITS (NOT SHOWN). FIELD VERIFY LOCATIONS, COORDINATE W/ARCH., OWNER.

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Developed by:
C-0278 11-18-09 SAD5...
12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404C

DRAWING TITLE
RESTROOM BUILDING PLUMBING PLAN

P3

PLOT DATE 11/18/2025

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HVAC EQUIPMENT SCHEDULE (100% OUTSIDE AIR DOAS UNIT)

FAN INFORMATION									ELECTRICAL INFORMATION					COOLING INFORMATION									HOT GAS REHEAT INFORMATION					GAS HEAT INFORMATION			
TAG	QTY	DOAS MODEL #	MANUFACTURER	RETURN AIR CFM	OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	SUPPLY FAN HP	PHASE	VOLT	MCA	MOCP	OUTSIDE AIR		MIXED AIR		LEAVING AIR COIL		CAPACITY		IEER	DISCHARGE		RELATIVE HUMIDITY	HEATING CAPACITY	MOISTURE REMOVAL RATE	GAS TYPE	INPUT BTUH	OUTPUT BTUH	TEMP RISE
														DB	WB	DB	WB	DB	WB	TOTAL	SENS.		DB	WB							
DOAS-1	1	CAS-HVAC3-I.200-15-12.5T-DOAS	CAPTIVE AIRE *	0	1760	1760	2439	0.750	1.5	1	230	103.2A	110A	95.0F	78F	---	---	51.4F	51.1F	149.4 MBH	77.7 MBH	21.3	70.0F	58.5F	47.5%	101 MBH	66.3 LBS/HR	NATURAL	198,809	161,035	80 F
DOAS-2	1	CAS-HVAC3-I.200-15-12.5T-DOAS	CAPTIVE AIRE *	0	1650	1650	2439	0.750	1.5	1	230	103.2A	110A	95.0F	78F	---	---	48.7F	48.7F	149.4 MBH	77.7 MBH	21.3	70.0F	58.5F	47.5%	101 MBH	66.8 LBS/HOUR	NATURAL	198,809	161,035	80 F

NOTES:

1. INVERTER SCROLL COMPRESSOR WITH INTEGRATED OIL SENSOR. DIGITAL OR STAGED SCROLL NOT AN APPROVED EQUAL
2. DIRECT DRIVE PLENUM BLOWER. BELT DRIVEN BLOWERS ARE NOT ACCEPTABLE
3. INTEGRATED MONITORING VIA CELLULAR CONNECTION BY MANUFACTURER
4. REFRIGEATION PRESSURE MONITORING ON HIGH AND LOW PRESSURE SIDE OF SYSTEM INCLUDED THROUGH DIGITAL INTERFACE
5. EC MOTOR CONDENSING FANS
6. ELECTRONIC EXPANSION VALVE. TXV NOT ACCEPTABLE
7. SUCTION LINE ACCUMULATOR
8. FACTORY COMMISSIONING WITH 5 YEAR PARTS ARRANTY, 25 YEAR WARRANTY ON STAINLESS STEEL HEAT EXCHANGER
9. AVERAGING INTAKE, EVAP AND DISCHARGE TEMPERATURE SENSORS (DISCHARGE SENSOR TO BE FACTORY MOUNTED WITHIN UNIT)
10. 2" EXTERIOR DUAL-WALL CONSTRUCTION W/ R-13 INSULATION-MINIMUM 20GA EXTERIOR / 14GA BASE
11. 81% EFFICIENT FURNACE, WITH MODULATING INDUCER TO MAINTAIN CONSTANT COMBUSTION EFFICIENCY ACROSS FIRING RANGE. 16:1 TURNDOWN WITH NG AND 13:1 TURNDOWN WITH LP
12. SUPPLY CFM MONITORING INTEGRAL TO UNIT WITH CFM MEASUREMENT INCLUDED THROUH DIGITAL INTERFACE
13. FULLY MODULATING HOT GAS REHEAT
14. 15 DEGREE LOW AMBIENT OPERATION
15. HAIL GUARD FOR CONDENSING COIL
16. FACTORY INSTALLED COMPRESSOR SOUND BLANKET
17. SIDE DISCHARGE/NO RETURN
18. MINIMUM ROOM AREA ASSUMED 7.2' SUPPLY DIFFUSER HEIGHT AND IS CALCULATED PER UL60335-2-40 4TH ED. VALUES BASED ON FACTORY CHARGE. ACTUAL SITE CHARGE MAY DIFFER.
19. SCCR RATING OF 10kAMP

SYSTEM NOTES:

PROVIDE ALL SENSORS AND CONTROLS REQUIRED TO PROVIDE A COMPLETE AND OPERATING SYSTEM. ENTIRE INSTALLATION SHALL BE PER MANUFACTURER'S INSTRUCTIONS. PROVIDE MANUFACTURER'S START-UP OF SYSTEM AND OWNER TRAINING FOR SYSTEM OPERATION. UNIT SHALL RUN CONTINUOUSLY WHEN BUILDING IS OCCUPIED. INTERLOCK CONTROLS FOR DOAS UNIT EXHAUST FANS EF-1 AND EF-2 SO THAT EXHAUST FANS RUN AT ALL TIMES WHEN DOAS UNITS ARE RUNNING.

* OR APPROVED EQUAL BY ADDISON OR AAON

EXHAUST FAN SCHEDULE

Polk County Rest Area MI

EXHAUST FAN #1 (EF-1)	* CAPTIVE AIRE MODEL# SIF15DD IN-LINE DIRECT DRIVE EXHAUST FAN, 1760 CFM @ 0.75" SP, 1210 RPM, 1 HP, 11.6 115V. SINGLE PHASE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, GRAVITY BACKDRAFT DAMPER, AND VIBRATION ISOLATION ON HANGING RODS. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES. PROVIDE FACTORY SPEED CONTROLLER FOR BALANCING FAN.
EXHAUST FAN #2 (EF-2)	* CAPTIVE AIRE MODEL# SIF15DD IN-LINE DIRECT DRIVE EXHAUST FAN, 1650 CFM @ 0.75" SP, 1171 RPM, 1 HP, 11.6 115V. SINGLE PHASE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE SWITCH AND WIRE THE UNIT. THE HVAC CONTRACTOR SHALL PROVIDE UNIT, GRAVITY BACKDRAFT DAMPER, AND VIBRATION ISOLATION ON HANGING RODS. LOCATE EXHAUST TERMINATION A MINIMUM OF 10'-0" FROM ANY INTAKES. PROVIDE FACTORY SPEED CONTROLLER FOR BALANCING FAN.

* OR APPROVED EQUAL

NOTE: INTERLOCK THE CONTROLS FOR BOTH EXHAUST FANS SO THAT WHEN DOAS-1 IS RUNNING EXHAUST FAN EF-1 IS RUNNING.
INTERLOCK THE CONTROLS FOR BOTH EXHAUST FANS SO THAT WHEN DOAS-2 IS RUNNING EXHAUST FAN EF-2 IS RUNNING.

AIR DISTRIBUTION SCHEDULE

MARK	* MANUFACTURER	MODEL NO.	NECK SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
A	CARNES	SKSA40	12" DIA.	18" X 18"	STEEL	SUPPLY	GYPSOM BOARD CEILING, WHITE 4-WAY BLOW
B	CARNES	SKSA40	8" DIA.	12" X 12"	STEEL	SUPPLY	GYPSOM BOARD CEILING, WHITE 4-WAY BLOW
EA	CARNES	RSABH	16" X 16"	18" X 18"	STEEL	EXHAUST	SIDE WALL MOUNTED, WHITE
EB	CARNES	RATAF	12" X 12" 8" DIA **	14" X 14"	ALUMINUM	EXHAUST	GYPSUM BOARD CEILING, WHITE

* OR APPROVED EQUAL BY TITUS OR PRICE
** PROVIDE RECTANGULAR TO ROUND DUCT TRANSION ON TOP GRILLE.
COORDINATE BORDER TYPE WITH THE CEILING TYPE. SEE ARCH SHEETS
PROVIDE CUT SHEETS TO OWNER/ARCH. PRIOR TO ORDERING.

FLEXIBLE DUCTWORK SIZES

MAXIMUM CFM'S

SIZES	SUPPLY	RETURN
6"	100	100
8"	175	175
10"	250	250
12"	400	350
14"	550	500
16"	NA	900

(CHANGE OUT EXISTING FLEX DUCTS AND COLLARS AS REQUIRED TO GET NEW CFM'S SHOWN)

FLEXIBLE DUCTWORK NOTES

1) INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE.
2) DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS.
3) DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
4) DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SMALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 15% OF ORIGINAL VOLUME.
5) USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK BECOMES DISTORTED.
6) EXTREME CARE SHALL BE TAKEN TO ELIMINATE ANY REDUCTION IN FLOW WITHIN THE FLEXIBLE DUCTS. THE MECH. CONTRACTOR WILL BE REQUIRED TO REPLACE THE FLEXIBLE DUCT WITH RIGID IF PROPER FLOW IS NOT OBTAINED.
7) SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFM'S GIVEN IN TABLE.
8) MAXIMUM OF 5 FEET FOR ALL FLEXIBLE DUCT RUNS

REFRIGERANT SAFETY NOTES

UTILIZING ASHRAE 15-2022 IS USED AS THE MEANS OF COMPLIANCE. ALL REFRIGERANT SYSTEMS INSTALLATIONS SHALL COMPLY WITH ALL REQUIRMENTS OF ASHRAE 15-2022.

1. REFRIGERANT TYPE IS R-454B, AN A2L CLASSIFICATION REFRIGERANT.
2. ALL REFRIGERANT PIPING SHALL BE PROTECTED IN ACCORDANCE WITH ASHRAE 15-2024 9.12.1.2
3. ALL REFRIGERANT PIPING SHALL HAVE IDENTIFICATION AS BEING REFRIGERANT AND TYPE OF REFRIGERANT.
4. ALL PIPING THAT PENETRATES RATED ASSEMBLIES SHALL BE FIRE SEALED WITH APPROVED DETAILS.
5. ALL AIR HANDLING UNITS SHALL HAVE LEAK DETECTION PROVIDED FROM THE UNIT MANUFACTURER AND INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. LEAK DETECTION SHALL SHUT OFF THE COMPRESSOR AND RUN FAN TO DILUTE REFRIGERANT.
6. PATH OF REFRIGERANT PIPING IS INDICATED ON THE PLANS.

GENERAL NOTES – MECHANICAL

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMEN. THE MC SHALL COORDINATE ALL OF HIS WORK WITH THE GENERAL CONTRACTOR (GC) AND OTHER TRADES.
4. THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
6. THE MC SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS INTERLOCKS, CONTROL WIRING CONDUIT AND POWER WIRING FROM DISCONNECTS TO HIS EQUIPMENT, USING A LICENSED ELECTRICIAN.
7. THE MC SHALL USE FIRE DAMPERS FOR PROTECTION OF THE OPENING IN ACCORDANCE WITH STATE AND LOCAL CODES IN ALL LOCATIONS WHERE PENETRATIONS OF RATED WALLS AND FLOORS OCCUR. SEE ARCHITECTURAL PLANS FOR RATED WALL AND FLOOR LOCATIONS. PROVIDE ACCESS DOORS AT ALL DAMPER LOCATIONS. LOCATE DOORS FOR EASY ACCESS.
8. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
9. INSTALL TURNING VANES IN SUPPLY DUCTS AT ALL ELBOWS AND SPLITTER DAMPERS. PROVIDE BALANCING DAMPERS IN ALL DUCTS WHERE SHOWN OR REQUIRED FOR SYSTEM BALANCING.
10. DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
11. THE MC SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM HIS WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF HIS WORK. HE SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN HIS CONTRACT.
12. PROVIDE ALL REQUIRED ROOF PENETRATIONS FOR THE INSTALLATION OF THE NEW EQUIPMENT. ALL FLASHINGS ARE BY THE MECHANICAL CONTRACTOR. ALL ROOFING WORK SHALL BE DONE BY A LICENSED ROOFING CONTRACTOR SO AS TO MAINTAIN ORIGINAL WARRANTY.
13. THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
14. PROPERLY SUPPORT ALL DUCT WORK, AND EQUIP FROM STRUCTURE. PROVIDE ALL STRUCTURAL SUPPORTS FOR THE LOADS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.

OA SCHEDULE

OUTDOOR VENTILATION AIR PROVIDED PER TABLE 403.3.1.1 NCSBC MECHANICAL CODE

APPLICATION	SQUARE FOOTAGE (SF)	AREA OUTDOOR AIR FLOW RATE (CFM/SF)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	OCCUPANCY DENSITY RATE (# PEOPLE/ 1000SF)	OCCUPNCY (# PEOPLE)	AREA OUTDOOR AIR FLOW (CFM)	PEOPLE OUTDOOR AIR FLOW (CFM)	TOTAL (CFM)
CORRIDOR	675	0.06	–	–	–	41	–	41
STORAGE	300	0.12	–	–	–	36	–	36
TOTAL REQUIRED								77

OUTDOOR AIR PROVIDED FROM EACH HVAC UNIT

HVAC UNIT	OUTDOOR AIR (CFM)
DOAS-1	1760 CFM
DOAS-2	1650 CFM
TOTAL PROVIDED	3410 CFM *

APPLICATION	CFM
TOILETS	70 CFM/FLUSHING FIXTURE

25 FLUSHING FIXTURE X 70 CFM = 1750 CFM

3075 CFM EXHAUST PROVIDED BY TWO EXHAUST FANS, MAKE UP AIR BY TRANSFER AIR

* OUTSIDE AIR QUANTITY PROVIDED FOR MAKE-UP AIR FOR TOILET EXHAUST AND BUILDING PRESSURIZATION.

LEGEND – MECHANICAL

- 12 X 8 — RECTANGULAR DUCTWORK. INSIDE CLEAR DIMENSION INDICATED (WIDTH X HEIGHT)
- FLEXIBLE DUCTWORK
- 12" DIA. — ROUND GALVANIZED STEEL DUCT INSIDE CLEAR DIMENSION INDICATED.
- T — WALL MOUNTED CONTROL PANEL FOR DOAS UNIT. MOUNT AT 48" AFF.
- TS — WALL MOUNTED REMOTE TEMPERATURE/HUMIDITY SENSOR. MOUNT AT 72" AFF.
- X / XXX — GRILLE TYPE / MIN. CFM
- SUPPLY DIFFUSER
- EXHAUST GRILLE
- ITEMS TO BE REMOVED

APPENDIX B

2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)
MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEM AND EQUIPMENT

Thermal Zone 4A

winter dry bulb 16F
summer dry bulb 93F

Interior Design Conditions

winter dry bulb 72F
summer dry bulb 75F
relative humidity 50%

Building Heating Load 140,200 BTU/hr

Building Cooling Load 233,800 BTU/hr

Mechanical Spacing Conditioning System

Unitary – The tenant space is served the following systems:
(1) 1760 CFM, 12.5 Ton, 100% Outside air DOAS unit. DX Cooling with natural gas heating.
(1) 1650 CFM, 12.5 Ton, 100% Outside air DOAS unit. DX Cooling with natural gas heating.

Boiler – Not applicable to this project.

Chiller – Not applicable to this project.

Equipment efficiencies

Efficiencies and outputs are listed on equipment schedules – See drawings.

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12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
POLK COUNTY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
HVAC SCHEDULES

M1

PLOT DATE 11/18/2025

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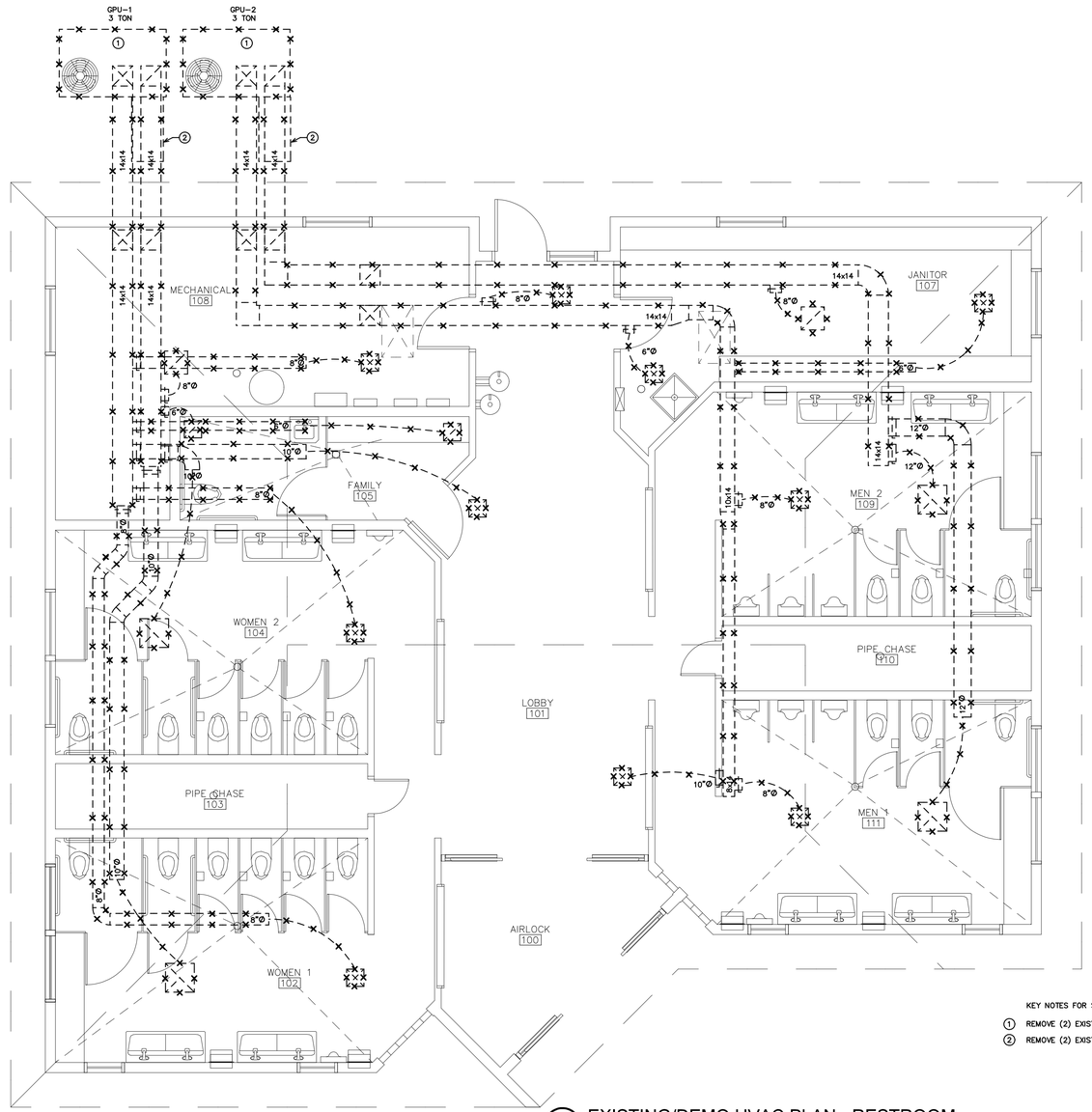

KEY NOTES FOR SHEET M2

1. REMOVE (2) EXISTING GAS PACKAGE UNITS AND ASSOCIATED PIPING, CONTROLS, AND WIRING.
2. REMOVE (2) EXISTING ERVS AND ASSOCIATED CONTROLS, WIRING.

1 EXISTING/DEMO HVAC PLAN - RESTROOM

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

DEMOLITION NOTES:

1. REMOVE ALL EXISTING SUPPLY, RETURN, AND EXHAUST DUCTWORK.
2. REMOVE ALL EXISTING SUPPLY, RETURN, AND EXHAUST GRILLES AND DIFFUSERS.
3. REMOVE EXISTING GAS PACKAGE UNITS, AND ENERGY RECOVERY VENTILATORS (ERV) AND ALL ASSOCIATED CONTROLS, PIPING, AND WIRING.

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SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
EXISTING/DEMO HVAC PLAN - RESTROOM

M2

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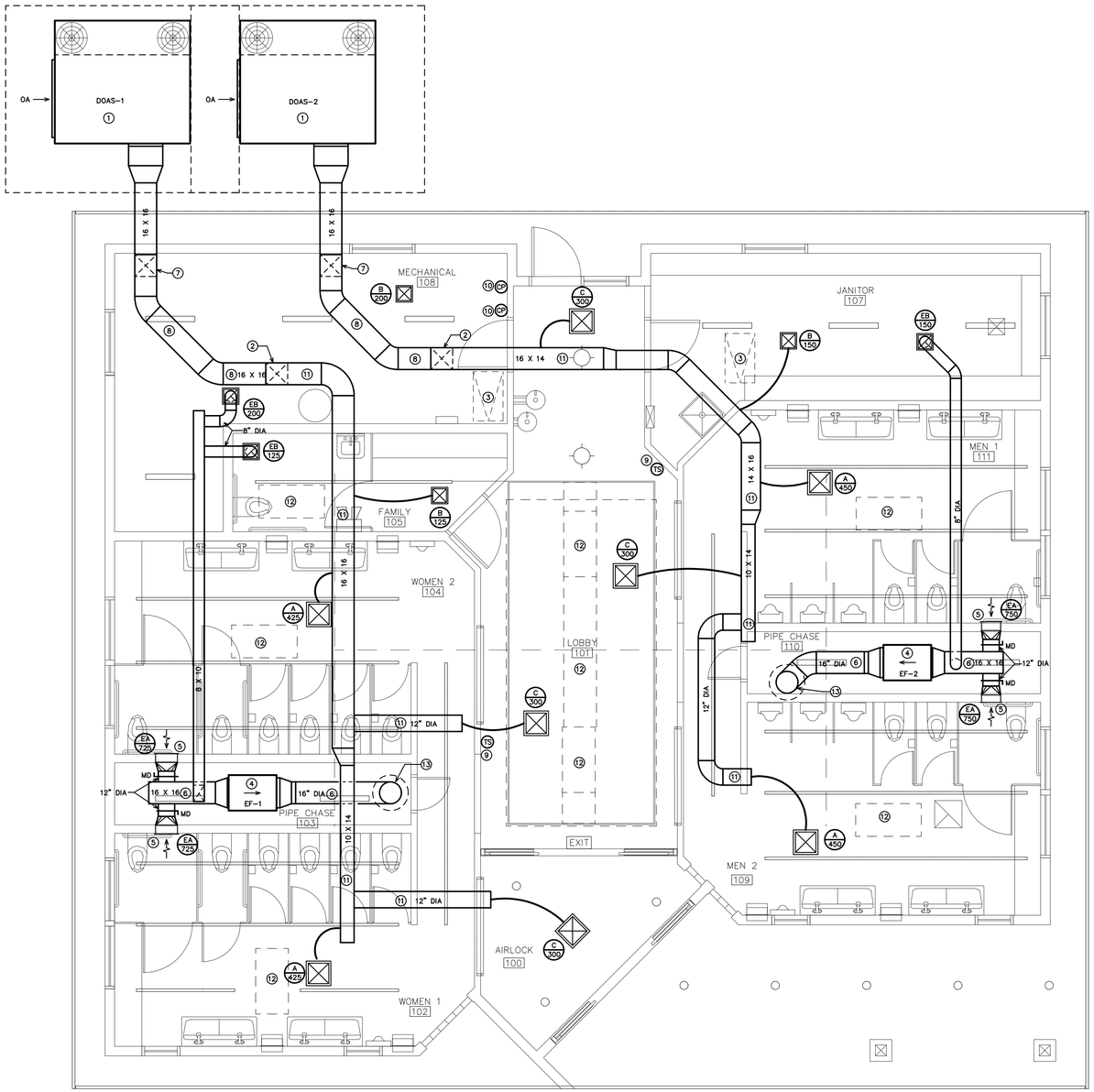

1 HVAC NEW WORK PLAN
SCALE: 1/4" = 1'-0"

KEY NOTES FOR 1/M3

1. 100% OUTSIDE AIR DOAS UNIT MOUNTED ON 4" THICK CONCRETE PAD. SEE DETAIL 1/M4. PROVIDE ALL MANUFACTURER'S REQUIRED CLEARANCES AROUND UNIT.
2. DUCT SHALL RISE AT THIS LOCATION INTO ATTIC SPACE.
3. ATTIC ACCESS PANEL.
4. IN-LINE EXHAUST FAN. MOUNT FAN OVERHEAD IN PIPE CHASE AS CLOSE TO CEILING AS POSSIBLE. SUSPEND FROM STRUCTURE ABOVE WITH (4) ALL THREADED STEEL RODS WITH VIBRATION ISOLATION ON EACH ROD.
5. HIGH SIDE WALL MOUNTED EXHAUST GRILLE MOUNTED ABOVE WALL TILE.
6. RUN EXHAUST DUCTWORK OVERHEAD AS CLOSE TO CEILING AS POSSIBLE IN PIPE CHASE.
7. RUN SUPPLY AIR DUCTWORK UP, TIGHT AGAINST WALL.
8. RUN DUCTWORK TIGHT TO CEILING.
9. REMOTE TEMPERATURE/HUMIDITY SENSOR FOR DOAS UNIT CONTROL.
10. CONTROL PANEL FOR DOAS UNIT.
11. RUN DUCTWORK IN ATTIC SPACE, THROUGH WEBS OF ROOF TRUSSES, AND BETWEEN AND PARALLEL TO ROOF TRUSSES AS REQUIRED.
12. EXISTING SKYLIGHT WELL.
13. 16" DIA. EXHAUST DUCT UP TO NEW ROOF MOUNTED EXHAUST HOOD. EXHAUST HOOD SHALL BE EQUAL TO CARNES MODEL GSAA, SIZE 16". PROVIDE ROOF CURB FOR ROOF PITCH AS REQUIRED.

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12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
POLK COUNTY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
NEW WORK HVAC PLAN - RESTROOM

M3

PLOT DATE 11/18/2025

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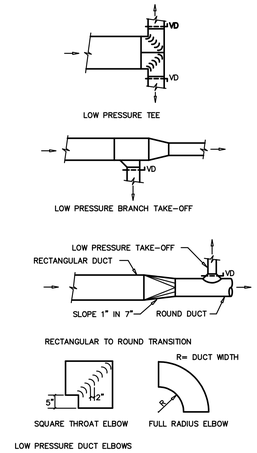
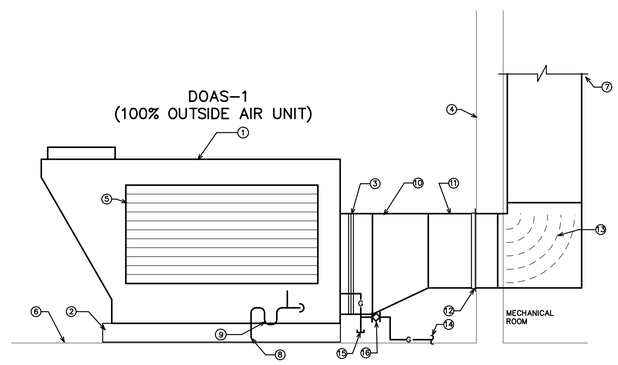


2 DUCT CONSTRUCTION DETAIL

SCALE: NOT TO SCALE



KEY NOTES FOR 1/M4

1. 100% OUTSIDE AIR DOAS UNIT MOUNTED AT GRADE.
2. 4" THICK CONCRETE PAD.
3. FLEXIBLE CONNECTION.
4. EXTERIOR WALL.
5. OUTSIDE AIR INTAKE HOOD.
6. GRADE.
7. SUPPLY AIR DUCTWORK TO DUCTWORK IN BUILDING.
8. CONDENSATE DRAIN. RUN TO GRADE.
9. PROVIDE CONDENSATE DRAIN TRAP. SIZE PER MANUFACTURERS RECOMMENDATIONS.
10. TRANSITION FROM UNIT CONNECTION SIZED TO DUCT SIZES ON PLAN.
11. OUTDOOR DUCTWORK SHALL BE SEALED WATERTIGHT AND HAVE INTERNAL INSULATION.
12. CUT NEW OPENING IN EXTERIOR WALL AND FRAME FOR NEW DUCT. PROVIDE FLASHING AROUND OPENING AND SEAL WATERTIGHT.
13. TURNING VANES IN ELBOW.
14. GAS LINE TO UNIT PROVIDED BY PLUMBING CONTRACTOR. FINAL CONNECTION AND START UP BY MECH. CONTRACTOR.
15. 6" DIRT LEG.
16. GAS SHUT-OFF VALVE, UNION AND LISTED AND LABELED OUTDOOR APPLIANCE CONNECTOR PER NCFGC 411.1

1 100% AIR DOAS UNIT DETAIL

SCALE: NOT TO SCALE

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12/13/2025

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PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
POLK COUNTY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
HVAC DETAILS

M4

PLOT DATE 11/18/2025

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GENERAL NOTES

1 ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.

2 ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTERS AND CONDUIT PER NEC.)

3 ALL CIRCUITS TO BE 2 #12, 1 #12 GND IN 1/2" EMT CONDUIT AS A MINIMUM. PROVIDE WIRING FOR LARGER CIRCUITS AS REQUIRED BY NEC. RIGID CONDUIT IS REQUIRED WHERE EXPOSED BELOW 8'-0" A.F.F.

4 ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/CORD.

5 CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.

6 ALL BRANCH CIRCUIT CONDUCTORS FROM THE PANEL TO THE FIRST OUTLET SHALL BE INCREASED TO THE NEXT LARGER SIZE WHERE THE LENGTH OF THE HOME RUN EXCEEDS 120 FEET ON 120V AND 208V CIRCUITS.

7 THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.

8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.

9 THE ELECTRICAL CONTRACTOR SHALL VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR TO INSURE THAT ALL LIGHTING FIXTURES ARE COMPATIBLE WITH THE CEILING SYSTEM BEING INSTALLED. LIGHTING FIXTURES SHOULD NOT BE ORDERED UNTIL TYPE OF CEILING HAS BEEN VERIFIED.

10 ELECTRICAL REQUIREMENTS INDICATED ON DRAWINGS MAY DIFFER FROM ACTUAL EQUIPMENT FURNISHED. IF FURNISHED EQUIPMENT DIFFERS FROM RATINGS ON DRAWINGS CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER FOR APPROPRIATE ACTION TO BE TAKEN.

11 IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE EXACT BREAKER REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO ORDERING PANEL. ADJUST BREAKER AND WIRE SIZES AS REQUIRED.

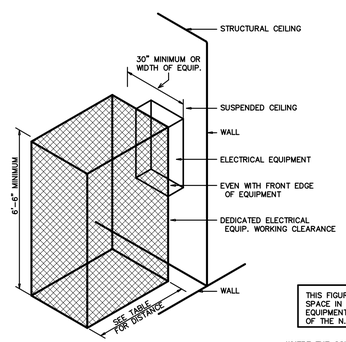
12 PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.

13 ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURES RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.

14 THE EC SHALL MEET WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLING OUTLET BOXES TO VERIFY LOCATIONS AND MOUNTING HEIGHTS OF RECEPTACLES AND TELEPHONE OUTLETS.

ELECTRICAL LEGEND

X / X / X	LIGHT FIXTURE: LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE). NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)
U / WP/GFI	DUPLEX RECEPTACLE – 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE; 'WP' INDICATES WEATHER PROOF, 'GFI' INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED. 'U' INDICATES RECEPTACLE WITH (2) USB PORTS.
	QUADRAPLEX RECEPTACLE – 120V
	FLOOR OR CEILING OUTLET (AS NOTED) – 120V
	SPECIAL PURPOSE RECEPTACLE – REFER TO POWER PLAN AND PANEL SCHEDULE
S	LIGHT SWITCH
S_M	SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.
S_D	DIMMABLE LIGHT SWITCH
S	MOTOR RATED SWITCH
J	JUNCTION BOX
	TELE/DATA OUTLET – PROVIDE JUNCTION BOX WITH CONDUIT BACK TO MTP. PROVIDE (1) TELEPHONE JACK AND (1) CAT 5 DATA JACK
	SINGLE-POLE HOMERUN TO PANELBOARD
	TWO-POLE OR 3-POLE HOMERUN TO PANELBOARD
EXIT	EXIT LIGHT
	EMERGENCY EGRESS FIXTURE
PC	PHOTOCELL (LED COMPLIANT)
	BRANCH CIRCUIT WIRING
	SWITCH LEG
	GROUND CONNECTION
PANEL A	DISTRIBUTION PANELBOARD
	DISCONNECTING MEANS AS REQUIRED BY CODE



ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110-26 OF N.E.C.

WORKING CLEARANCES			
VOLTAGE TO GROUND NOMINAL	MIN. CLEAR DISTANCE IN FEET		
	CONDITION: 1	2	3
0-150	3	3	3
151-600	3	3-1/2	4

THIS FIGURE ILLUSTRATES THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT REQUIRED BY SECTION 110-16 OF THE N.E.C.

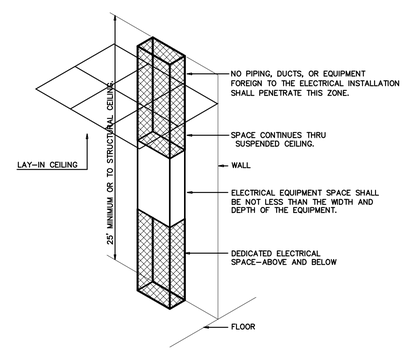
WHERE THE CONDITIONS ARE AS FOLLOWS:

1 EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.

2 EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.

3 EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

1 ELECTRICAL CLEARANCES
SCALE: NTS



ELECTRICAL EQUIPMENT DEDICATED SPACE PER ARTICLE 110.26.F.1 OF N.E.C.

2 DEDICATED SPACE
SCALE: NTS

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PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
ELECTRICAL SPECIFICATIONS

E1

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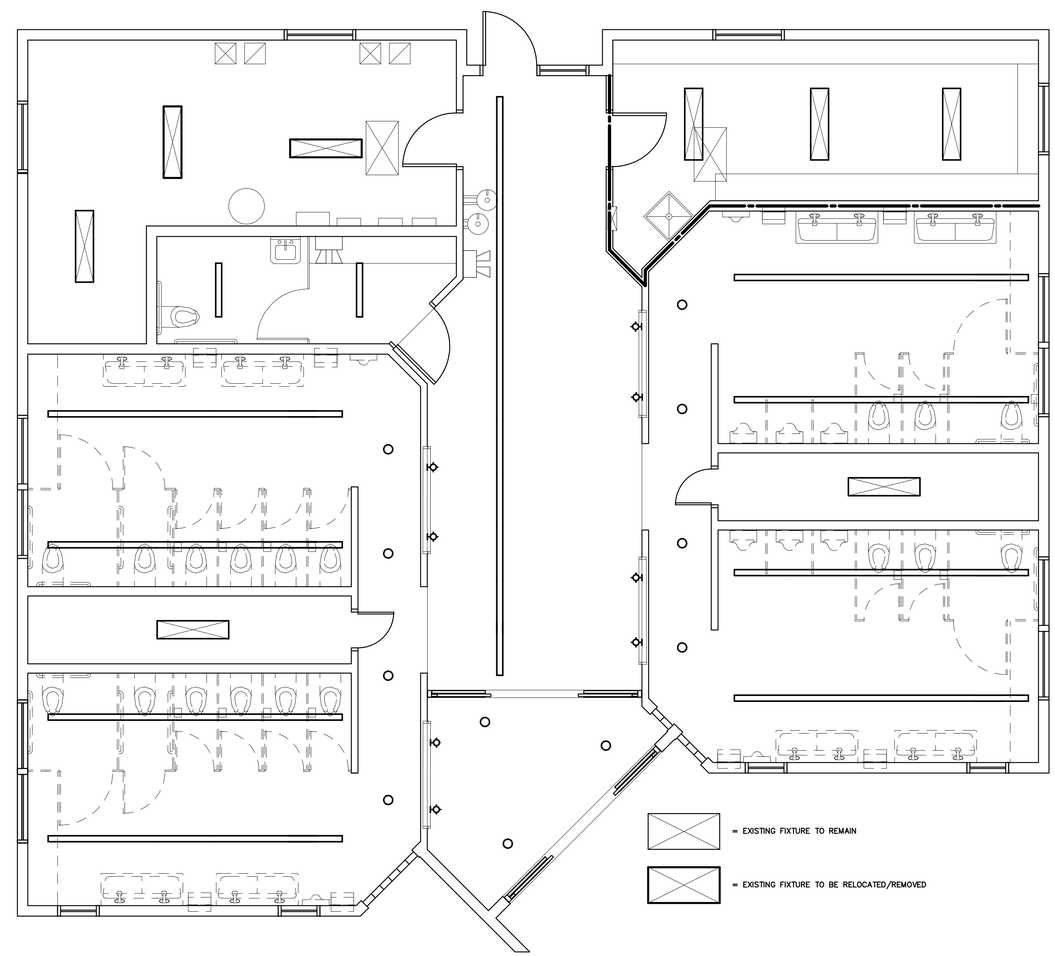
REMOVE ALL LIGHTING AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED.

NOTE:
THE DISPOSAL OF SPENT FLUORESCENT LIGHTS AND THERMOSTATS THAT CONTAIN MERCURY GENERATED IN PUBLIC BUILDINGS MUST FOLLOW AN APPROVED RECYCLING PROGRAM REQUIRED BY NC GENERAL STATUTES, G.S. SECTION 130A–310.60.



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

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PROJECT TITLE
POLK COUNTY
WELCOME CENTER
& REST AREA

I–26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
EXISTING LIGHTING PLAN
RESTROOM BUILDING

E2.0

PLOT DATE 11/18/2025

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

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Polk County Rest Area E2.1

LIGHTING SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMPS TYPE	LAMPS W	BALLAST TYPE	W/ FIXTURE	REMARKS	
A1	FINELITE	HP-4-R-D-48"-B-830-F-SSLG-120	ALCON	12100-40-R	DALS	LNR48-CC-BK	120	–	LED	–	–	48	LINEAR RECESSED STRIP LIGHT	*
A2	JESCO	DL-FLEX2-NPXCC-HE-WET	DAZUMA	L1001573-12B-WL	VAKKER	VKC-2411122-07-WL	120	–	LED	–	–	5.5/FT	LINEAR OUTDOOR LED STRIP LIGHT	*
B1	LITHONIA	MNSSL-485500LM- VOLTGZ	COLUMBIA	LXEM4-35HL-RFA-EU	UTILITECH	LSHOP-4X2-840	120	–	LED	–	–	47	4' STRIP LED LIGHT	*
B2	LITHONIA	MNSLL-962LL-40K-80CRI	PLT	PLT-90415	METALUX	8ST2L8040R	120	–	LED	–	–	94	8' STRIP LED LIGHT	*
C	JUNO	IC22LED-G4-14LM-35K	SUNCO	DL-BFDR4-11W-27K-5K-20PK	HALO	SMD-6R-69SWH	120	–	LED	–	–	30	6" LED RECESSED CAN FIXTURE	*
E	COMPASS	CUSO	TRACELITE	SLW-15-4K-EM	NICOR	EOF1MV3KBZPS	120	–	LED	–	–	17	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE W/ INTEGRAL PHOTOCELL	*
P1	AFX	AFX-10064	JUSTICE	CER-9620-BIS-CROM-RIGID	SUNDIAL	SDHP-OGGE-BZ/B-YB7C	120	–	LED	–	–	30	LARGE PENDANT LED LIGHT	*
P2	DAZUMA	HA104748-01B	DAZUMA	LI003123-03B	ALOM	EQ-P-LCA24-B	120	–	LED	–	–	20	SMALL PENDANT LED LIGHT	*
S	GE	93131739	FEIT	UCL24FP-SCCTCA	UTILITECH	UC1419-CCT-12LF1-U	120	–	LED	–	–	10/FT	CABNIET LED LIGHTING STRIP	*
EXIT	COMPASS	CER	MULE	PVT-1-B-R-U-BA-SD	LITHONIA	LHQM	120	–	LED	–	–	2	LED EXIT SIGN, COLOR BY ARCH	*
EXIT	COMPASS	CCR	MULE	AL-1-R-WW-SD	LITHONIA	ECRG-RD	120	–	LED	–	–	4	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT	*
	COMPASS	CU2HL	MULE	ELW-BB-10L3-DG	LITHONIA	EU2C-M6	120	–	LED	–	–	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH	*

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

NOTE:
PROVIDE LABELING ON EACH SWITCH NOTING CIRCUIT SERVED.

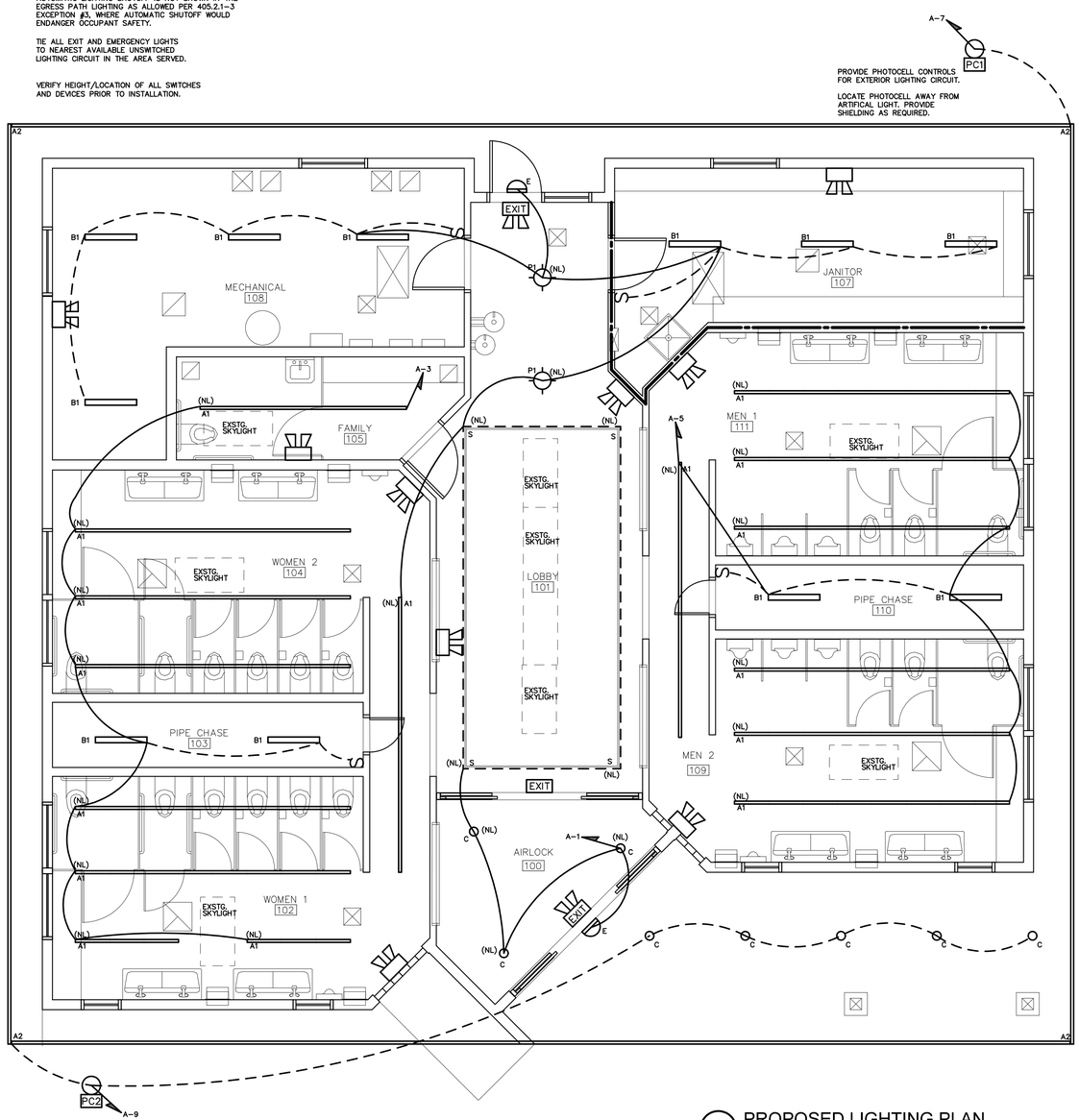
AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE EGRESS PATH LIGHTING AS ALLOWED PER 405.2.1-3 EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY.

TIE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.

PROVIDE PHOTOCELL CONTROLS FOR EXTERIOR LIGHTING CIRCUIT.

LOCATE PHOTOCELL AWAY FROM ARTIFICAL LIGHT. PROVIDE SHIELDING AS REQUIRED.



= EXISTING FIXTURE TO REMAIN

= NEW/RELOCATED FIXTURE

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

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NORTH CAROLINA PROFESSIONAL SEAL 22038 ENGINEER BENJAMIN E. BURKE
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C337E1B80F3420...
12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
LIGHTING PLAN – RESTROOM

E2.1

PLOT DATE 11/18/2025

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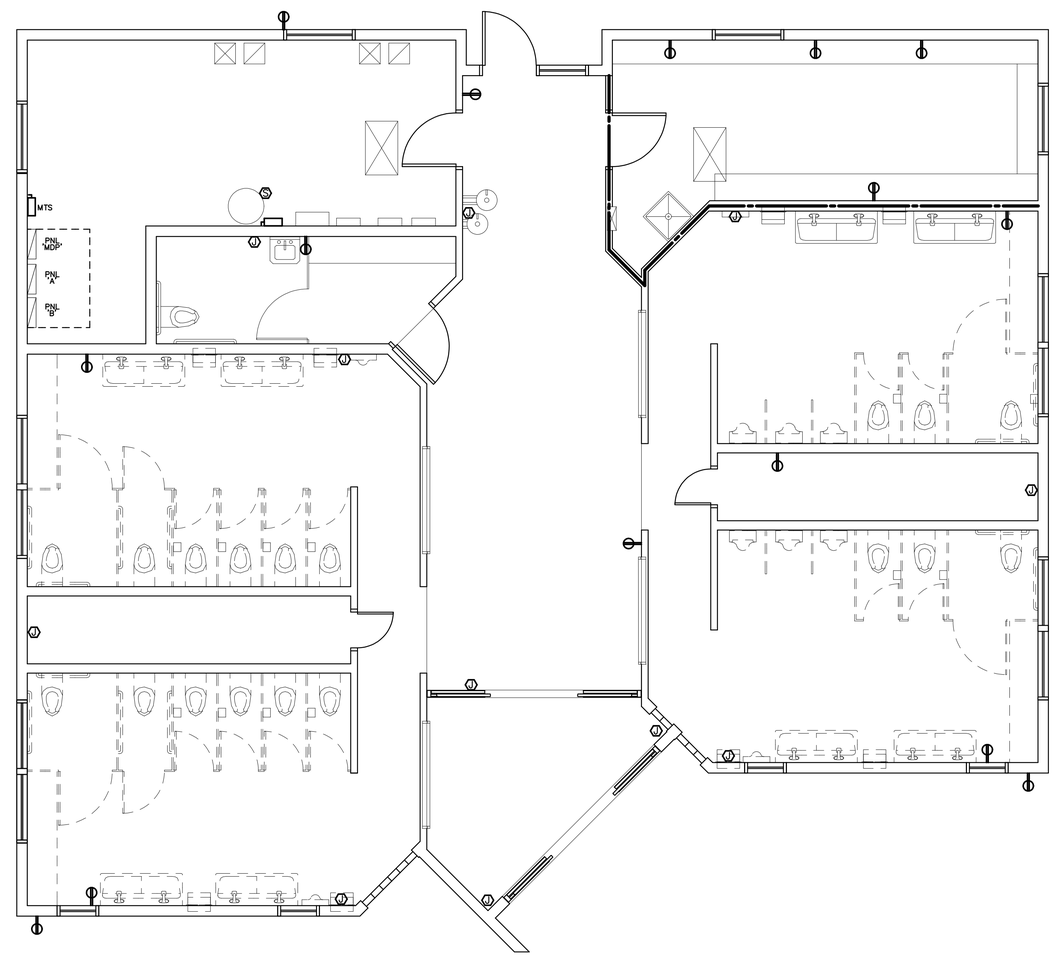
NOTE:
THE INFORMATION SHOWN ON THIS DRAWING IS FROM A FIELD INVESTIGATION.
THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.
THE SUBMISSION OF A BID INDICATES ACCEPTANCE OF EXISTING CONDITIONS. NOTIFY THE ENGINEER
OF ANY DISCREPANCIES NOTED.

THE SCOPE OF DEMOLITION IS AS FOLLOWS–
REMOVE ALL DEVICES AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED.
REMOVE ALL DEVICES AS SHOWN. REFEED ANY DEVICES REMAINING DOWN LINE FROM REMOVED DEVICE.
REMOVE ALL WIRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.



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

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12/13/2025

SCO#25–30577–01

PROJECT TITLE
POLK COUNTY
WELCOME CENTER
& REST AREA

I–26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
EXISTING LIGHTING PLAN
RESTROOM BUILDING

E3.0

PLOT DATE 11/18/2025

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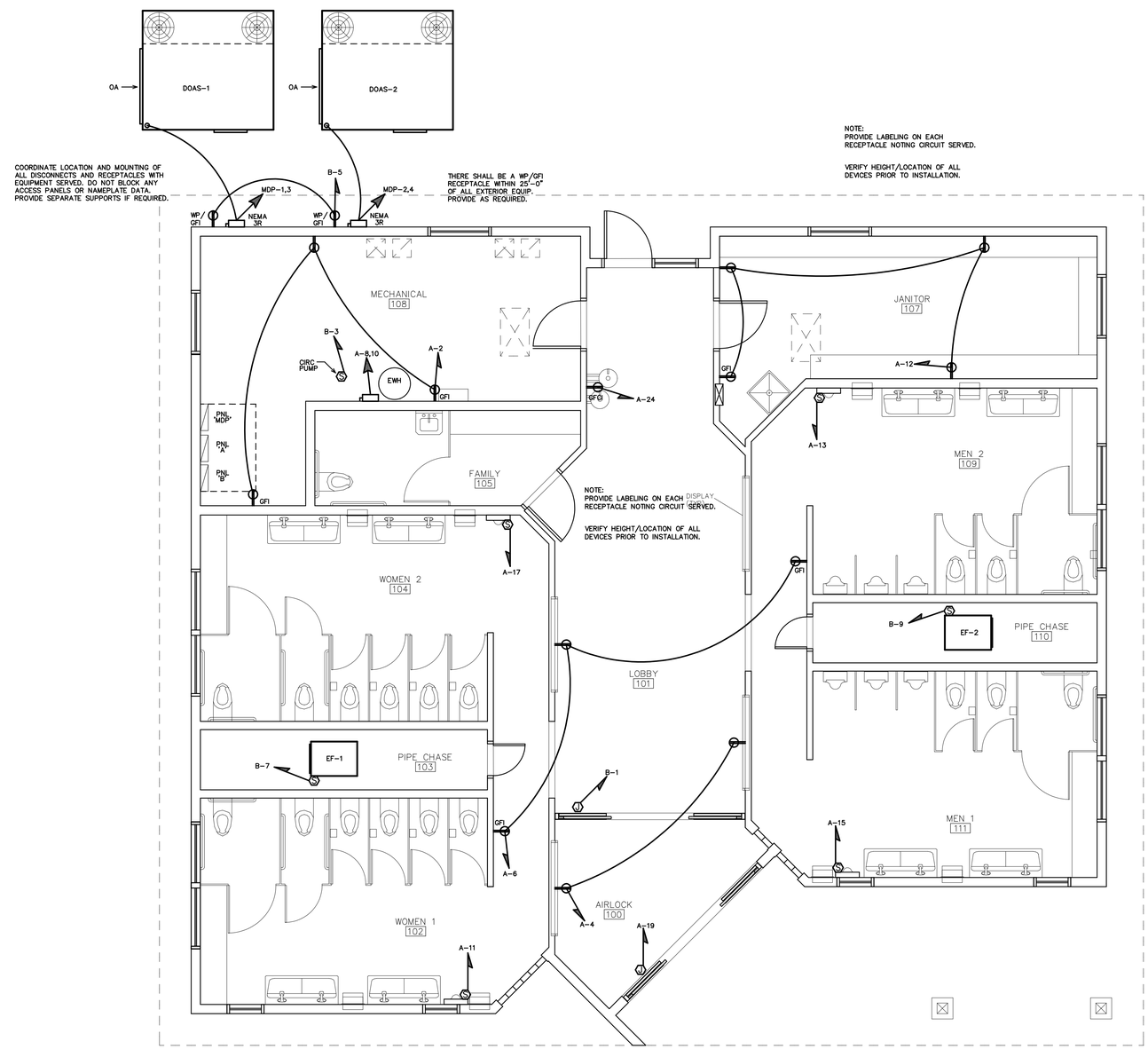

1 PROPOSED POWER PLAN
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA REGISTERED PROFESSIONAL ENGINEER SEAL 22038 BENJAMIN E. BURKE

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12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
POWER PLAN

E3.1

PLOT DATE 11/18/2025

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Polk County Rest Area E4.0

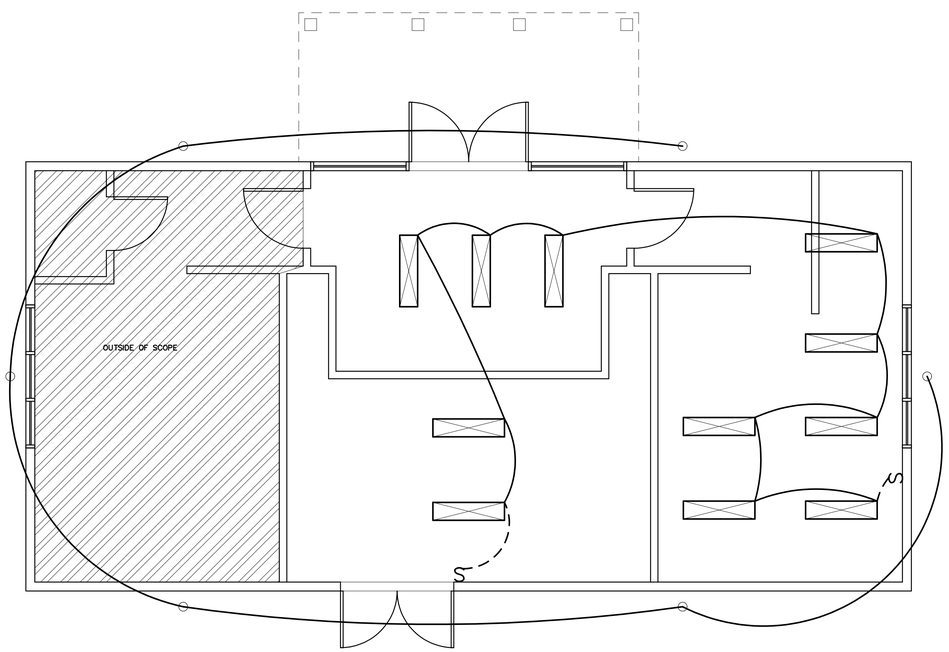
LIGHTING SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMPS TYPE	LAMPS W	BALLAST TYPE	W/ FIXTURE	REMARKS	
A1	FINELITE	HP-4-R-D-48"-B-830-F-SSLG-120	ALCON	12100-40-R	DALS	LNR48-CC-BK	120	–	LED	–	–	48	LINEAR RECESSED STRIP LIGHT	*
A2	JESCO	DL-FLEX2-NPXCC-HE-WET	DAZUMA	L1001573-12B-WL	VAKKER	VKC-2411122-07-WL	120	–	LED	–	–	5.5/FT	LINEAR OUTDOOR LED STRIP LIGHT	*
B1	LITHONIA	MNSSL-485500LM- VOLTGZ	COLUMBIA	LXEM4-35HL-RFA-EU	UTILITECH	LSHOP-4X2-840	120	–	LED	–	–	47	4' STRIP LED LIGHT	*
B2	LITHONIA	MNSLL-962LL-40K-80CRI	PLT	PLT-90415	METALUX	85T2L8040R	120	–	LED	–	–	94	8' STRIP LED LIGHT	*
C	JUNO	IC22LED-G4-14LM-35K	SUNCO	DL-BFDR4-11W-27K-5K-20PK	HALO	SMD-6R-69SWH	120	–	LED	–	–	30	6" LED RECESSED CAN FIXTURE	*
E	COMPASS	CUSO	TRACELITE	SLW-15-4K-EM	NICOR	EOF1MV3KB2PS	120	–	LED	–	–	17	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE W/ INTEGRAL PHOTOCELL	*
P1	AFX	AFX-10064	JUSTICE	CER-9620-BIS-CROM-RIGID	SUNDIAL	SDHP-OGGE-BZ/B-YB7C	120	–	LED	–	–	30	LARGE PENDANT LED LIGHT	*
P2	DAZUMA	HA104748-01B	DAZUMA	LI003123-03B	ALOM	EQ-P-LCA24-B	120	–	LED	–	–	20	SMALL PENDANT LED LIGHT	*
S	GE	93131739	FEIT	UCL24FP-SCCTCA	UTILITECH	UC1419-CCT-12LF1-U	120	–	LED	–	–	10/FT	CABNIET LED LIGHTING STRIP	*
EXIT	COMPASS	CER	MULE	PVT-1-B-R-U-BA-SD	LITHONIA	LHQM	120	–	LED	–	–	2	LED EXIT SIGN, COLOR BY ARCH	*
EXIT	COMPASS	CCR	MULE	AL-1-R-WW-SD	LITHONIA	ECRG-RD	120	–	LED	–	–	4	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT	*
	COMPASS	CU2HL	MULE	ELW-BB-10L3-DG	LITHONIA	EU2C-M6	120	–	LED	–	–	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH	*

* OR APPROVED EQUAL. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY.

= EXISTING FIXTURE TO REMAIN

= EXISTING FIXTURE TO BE RELOCATED/REMOVED



1 EXISTING LIGHTING PLAN - VENDING BLDG.
SCALE: 1/4" = 1'-0"

= EXISTING FIXTURE TO REMAIN

= NEW/RELOCATED FIXTURE

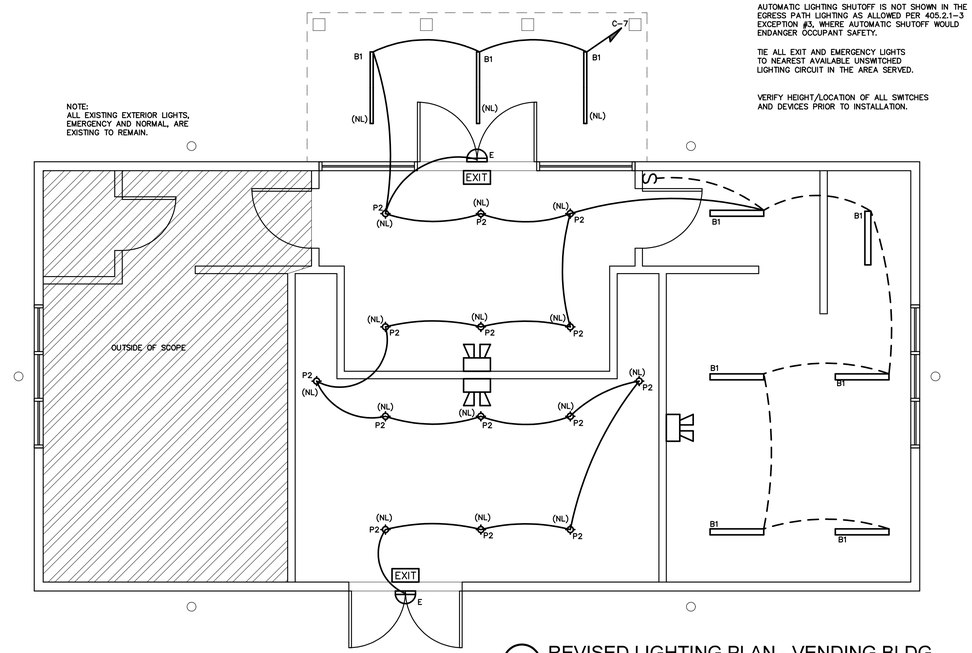
NOTE:
PROVIDE LABELING ON EACH SWITCH NOTING CIRCUIT SERVED.

AUTOMATIC LIGHTING SHUTOFF IS NOT SHOWN IN THE EGRESS PATH LIGHTING AS ALLOWED PER 405.2.1-3 EXCEPTION #3, WHERE AUTOMATIC SHUTOFF WOULD ENDANGER OCCUPANT SAFETY.

TIE ALL EXIT AND EMERGENCY LIGHTS TO NEAREST AVAILABLE UNSWITCHED LIGHTING CIRCUIT IN THE AREA SERVED.

VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.

NOTE:
ALL EXISTING EXTERIOR LIGHTS, EMERGENCY AND NORMAL, ARE EXISTING TO REMAIN.



2 REVISED LIGHTING PLAN - VENDING BLDG.
SCALE: 1/4" = 1'-0"

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NORTH CAROLINA PROFESSIONAL SEAL 22038 ENGINEER BENJAMIN E. BURKE

DocuSigned by:
12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
LIGHTING PLAN-VENDING

E4.0

PLOT DATE 11/18/2025

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Polk County Rest Area ESO

LIGHTING SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMPS TYPE	LAMPS W	BALLAST TYPE	W/ FIXTURE	REMARKS	
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E	COMPASS	CUSO	TRACELITE	SLW-15-4K-EM	NICOR	EOF1MV3KBZPS	120	–	LED	–	–	17	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE W/ INTEGRAL PHOTOCELL	*
P1	AFX	AFX-10064	JUSTICE	CER-9620-BIS-CROM-RIGID	SUNDIAL	SDHP-OGGE-BZ/B-YB7C	120	–	LED	–	–	30	LARGE PENDANT LED LIGHT	*
P2	DAZUMA	HA104748-01B	DAZUMA	LI003123-03B	ALOM	EQ-P-LCA24-B	120	–	LED	–	–	20	SMALL PENDANT LED LIGHT	*
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EXIT	COMPASS	CER	MULE	PVT-1-B-R-U-BA-SD	LITHONIA	LHQM	120	–	LED	–	–	2	LED EXIT SIGN, COLOR BY ARCH	*
EXIT	COMPASS	CCR	MULE	AL-1-R-WW-SD	LITHONIA	ECRG-RD	120	–	LED	–	–	4	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT	*
	COMPASS	CU2HL	MULE	ELW-BB-10L3-DG	LITHONIA	EU2C-M6	120	–	LED	–	–	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH	*

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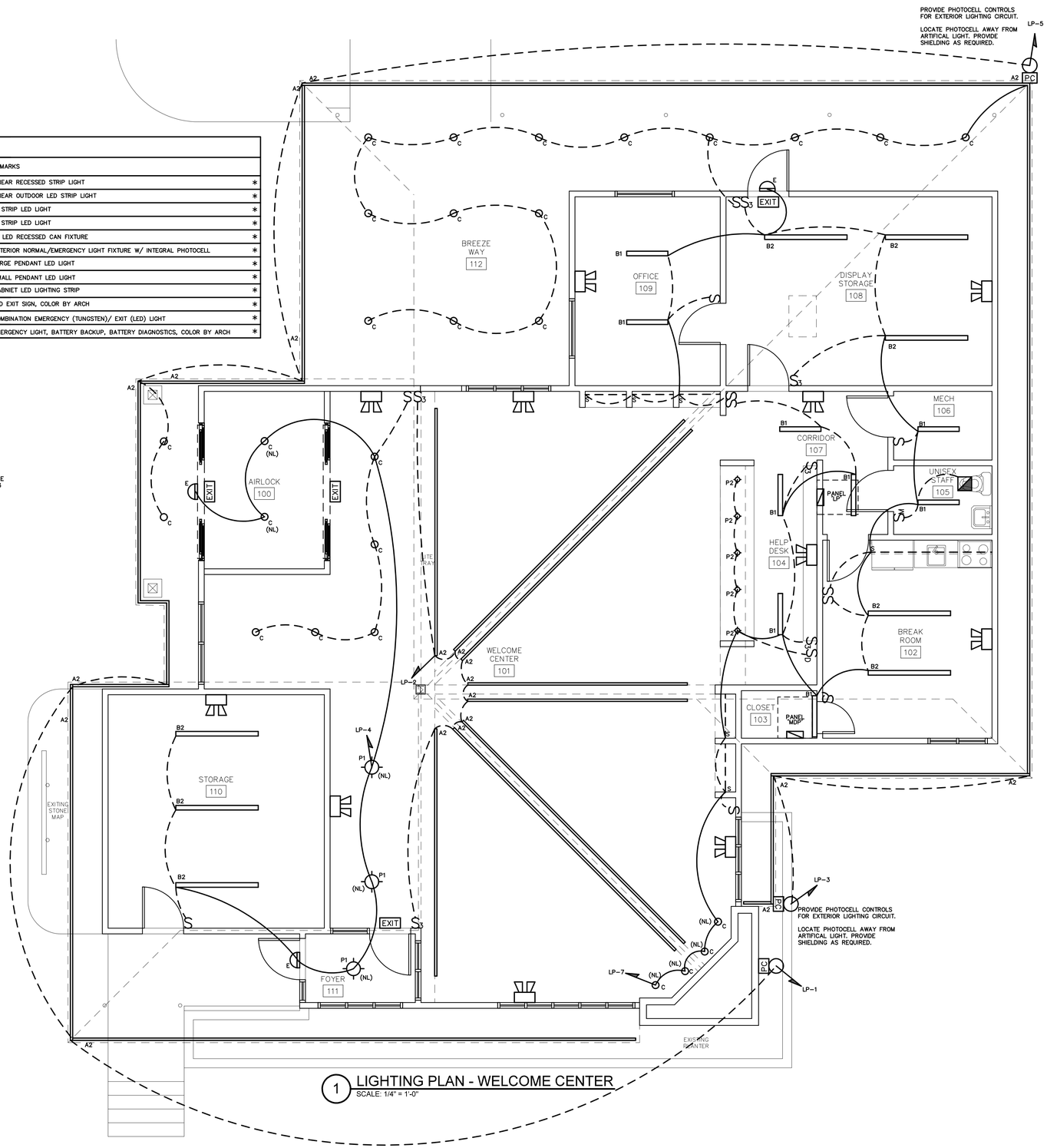
VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.



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

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C93761FB0F34D5...
12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
ELECTRICAL SPECIFICATIONS

E5

PLOT DATE 11/18/2025

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Polk County Rest Area E6.0

EXISTING PANEL- 'MDP'

MAKE: CUTLER HAMMER
TYPE: PRL3a
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
SPACE		---		1		2	---			SPACE
SPACE			---	3		4		---		SPACE
SPACE		---		5		6	---			SPACE
SPACE			---	7		8		---		SPACE
PANEL 'A'	225A	---		9		10	---			SPACE
.			---	11		12		---		SPACE
SPACE		---		13		14	---		225A	PANEL 'B'
SPACE			---	15		16		---		.
NOTES / SUB-TOTALS 'B'		---	---		400A BUS		---	---		SUB-TOTALS 'A'
					400A LUGS		---	---		SUB-TOTALS 'B'
					400A FEED		---	---		GRAND TOTAL
					VERIFY SIZE		--A	--A		AMPS/PHASE

TOTAL CONNECTED LOAD

Polk County Rest Area E6.0

EXISTING PANEL- 'A'

MAKE: CUTLER HAMMER
TYPE: PRL1a
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
AUTO SUIDING DOOR	20A	---		1		2	---		20A	SOFFIT LIGHTS
AUTO SUIDING DOOR	20A		---	3		4		---	20A	LTS- 105, 109, 111
HAND DRYER	20A	---		5		6	---		20A	LTS- 104, 110, CORR 2, DISPLAY
FLUSH VALVE CONTROLS WOMENS	20A		---	7		8		---	30A	EWH
PHONE BOARD	20A	---		9		10	---			.
HAND DRYER	20A		---	11		12		---	20A	SPARE
HAND DRYER	20A	---		13		14	---		40A	GP1
EWC	20A		---	15		16		---		.
REC	20A	---		17		18	---		20A	GP1 SUPPLY RET FANS
SMOKE DETECTORS	20A		---	19		20		---		.
RECIRC PUMP	20A	---		21		22	---			SPACE
.			---	23		24		---	15A	LTS- 101 MAIN HALL
SPACE		---		25		26	---			SPACE
SPACE			---	27		28		---		SPACE
SPACE		---		29		30	---			SPACE
SPACE			---	31		32		---		SPACE
SPACE		---		33		34	---			SPACE
SPACE			---	35		36		---		SPACE
SPACE		---		37		38	---			SPACE
SPACE			---	39		40		---		SPACE
SPACE		---		41		42	---			SPACE
NOTES / SUB-TOTALS 'B'		---	---		225A BUS		---	---		SUB-TOTALS 'A'
					225A LUGS		---	---		SUB-TOTALS 'B'
					225A FEED		---	---		GRAND TOTAL
					VERIFY SIZE		--A	--A		AMPS/PHASE

TOTAL CONNECTED LOAD

Polk County Rest Area E6.0

EXISTING PANEL- 'B'

MAKE: CUTLER HAMMER
TYPE: PRL1a
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
AIR CURTAIN	20A	---		1		2	---		20A	SOFFIT LTS
HAND DRYER	20A		---	3		4		---	20A	LTS 106, 107, 109
FLUSH VALVE CONTROLS MENS	20A	---		5		6	---		20A	LTS- 113, CORR 3, DISPLAY
HAND DRYER	20A		---	7		8		---	20A	SPARE
REC	20A	---		9		10	---			.
REC	20A		---	11		12		---	40A	SPARE
GEN. BAT. CHARGER	20A	---		13		14	---			.
GEN. COOL. JACKET HEATER	20A		---	15		16		---	20A	SPARE
SPACE		---		17		18	---			SPACE
SPACE			---	19		20		---		SPACE
SPACE		---		21		22	---			SPACE
SPACE			---	23		24		---		SPACE
SPACE		---		25		26	---			SPACE
SPACE			---	27		28		---		SPACE
SPACE		---		29		30	---			SPACE
SPACE			---	31		32		---		SPACE
SPACE		---		33		34	---			SPACE
SPACE			---	35		36		---		SPACE
SPACE		---		37		38	---			SPACE
SPACE			---	39		40		---		SPACE
SPACE		---		41		42	---			SPACE
NOTES / SUB-TOTALS 'B'		---	---		225A BUS		---	---		SUB-TOTALS 'A'
					225A LUGS		---	---		SUB-TOTALS 'B'
					225A FEED		---	---		GRAND TOTAL
					VERIFY SIZE		--A	--A		AMPS/PHASE

TOTAL CONNECTED LOAD

WEEKS SUMMER ARCHITECTS

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DocuSigned by: C6375FFB8FF34D5... 12/13/2025

Polk County Rest Area E6.0

REVISED PANEL- 'MDP'

MAKE: CUTLER HAMMER
TYPE: PRL3a
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
DOAS-1	110A	12384		1		2	12384		110A	DOAS-2
.			12384	3		4		12384		.
SPACE		---		5		6	---			SPACE
SPACE			---	7		8		---		SPACE
PANEL 'A'	225A	11131		9		10	---			SPACE
.			11316	11		12		---		SPACE
SPACE		---		13		14	2255		225A	PANEL 'B'
SPACE			---	15		16		1491		.
NOTES / SUB-TOTALS 'B'		23515	23700		400A BUS		14639	13875		SUB-TOTALS 'A'
EXISTING BREAKER/CIRCUIT TO REMAIN					400A LUGS		23515	23700		SUB-TOTALS 'B'
NEW OR REVISED BREAKER/CIRCUIT					400A FEED		38154	37575		GRAND TOTAL
					VERIFY SIZE		318A	313A		AMPS/PHASE

TOTAL CONNECTED LOAD

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR(6)	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING (2)		125%	3361	3448	6809
TRACK LIGHTING		125%	---	---	---
GENERAL USE		≤10KVA@100%	1440	1080	2520
RECEPTACLES		>10KVA@50%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	15480	15480	30960
	ALL OTHERS	100%	19391	18215	37606
WATER HEATERS		125%	2813	2813	5626
KITCHEN EQUIPMENT (3)		100%	---	---	---
FIX. ELEC. SPACE HEAT. (4)		100%	---	---	---
SHOW WINDOW LIGHTS (5)		125%	---	---	---
SIGN		125%	---	---	---
MISC		100%	---	888	888
PHASE (TOTAL VA)			42485	41924	84409
TOTAL AMPS			354A	349A	VOLT AMPS / VOLTS = 352A TOTAL AMPS

Polk County Rest Area E6.0

REVISED PANEL- 'A'

MAKE: CUTLER HAMMER
TYPE: PRL1a
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

	LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
(S)	LTS- GENERAL	20A	1251		1		2	540		20A	REC- MECHANICAL
(S)	LTS- WOMENS	20A		1390	3		4		360	20A	REC- AIRLOCK/LOBBY
(S)	LTS- MENS	20A	1438		5		6	540		20A	REC- LOBBY
(S)	LTS- EXTERIOR	20A		1368	7		8		2250	30A	EWH
(S)	LTS- EXTERIOR	20A	1272		9		10	2250			.
	HAND DRYER	20A		1920	11		12		720	20A	REC- JANITOR
	HAND DRYER	20A	1920		13		14	---		40A	SPARE
	HAND DRYER	20A		1920	15		16		---		.
	HAND DRYER	20A	1920		17		18	---		20A	SPARE
	MOTORIZED DOOR	20A		500	19		20		---		.
	SPARE	20A	---		21		22	---			SPACE (E)
	.			---	23		24		888	15A	EWC (G)
	SPACE (E)		---		25		26	---			SPACE (E)
	SPACE (E)			---	27		28		---		SPACE (E)
	SPACE (E)		---		29		30	---			SPACE (E)
	SPACE (E)			---	31		32		---		SPACE (E)
	SPACE (E)		---		33		34	---			SPACE (E)
	SPACE (E)			---	35		36		---		SPACE (E)
	SPACE (E)		---		37		38	---			SPACE (E)
	SPACE (E)			---	39		40		---		SPACE (E)
	SPACE (E)		---		41		42	---			SPACE (E)
	NOTES / SUB-TOTALS 'B'		7801	7098		225A BUS		3330	4218		SUB-TOTALS 'A'
	EXISTING BREAKER/CIRCUIT TO REMAIN					225A LUGS		7801	7098		SUB-TOTALS 'B'
	NEW OR REVISED BREAKER/CIRCUIT					225A FEED		11131	11316		GRAND TOTAL
(G)	GFCI BREAKER (S) SWITCH RATED BREAKER					VERIFY SIZE		93A	94A		AMPS/PHASE
(E)	EXISTING CIRCUIT										

TOTAL CONNECTED LOAD

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR(6)	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING (2)		125%	3361	3448	6809
TRACK LIGHTING		125%	---	---	---
GENERAL USE		≤10KVA@100%	1080	1080	2160
RECEPTACLES		>10KVA@50%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	2400	2400	4800
	ALL OTHERS	100%	3192	2420	5612
WATER HEATERS		125%	2813	2813	5626
KITCHEN EQUIPMENT (3)		100%	---	---	---
FIX. ELEC. SPACE HEAT. (4)		100%	---	---	---
SHOW WINDOW LIGHTS (5)		125%	---	---	---
SIGN		125%	---	---	---
MISC		100%	---	888	888
PHASE (TOTAL VA)			12848	13049	25895
TOTAL AMPS			107A	109A	VOLT AMPS / VOLTS = 108A TOTAL AMPS

Polk County Rest Area E6.0

REVISED PANEL- 'B'

MAKE: CUTLER HAMMER
TYPE: PRL1a
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
MOTORIZED DOOR	20A	500		1		2	---		20A	SPARE
CIRC PUMP	20A		96	3		4		---	20A	SPARE
REC- EXTERIOR	20A	360		5		6	---		20A	SPARE
EF-1	20A		1395	7		8		---	20A	SPACE (E)
EF-2	20A	1395		9		10	---			.
SPARE	20A		---	11		12		---	40A	SPACE (E)
SPARE	20A	---		13		14	---			.
SPARE	20A		---	15		16		---	20A	SPACE (E)
SPACE (E)		---		17		18	---			SPACE (E)
SPACE (E)			---	19		20		---		SPACE (E)
SPACE (E)		---		21		22	---			SPACE (E)
SPACE (E)			---	23		24		---		SPACE (E)
SPACE (E)		---		25		26	---			SPACE (E)
SPACE (E)			---	27		28		---		SPACE (E)
SPACE (E)		---		29		30	---			SPACE (E)
SPACE (E)			---	31		32		---		SPACE (E)
SPACE (E)		---		33		34	---			SPACE (E)
SPACE (E)			---	35		36		---		SPACE (E)
SPACE (E)		---		37		38	---			SPACE (E)
SPACE (E)			---	39		40		---		SPACE (E)
SPACE (E)		---		41		42	---			SPACE (E)
NOTES / SUB-TOTALS 'B'		2255	1491		225A BUS		---	---		SUB-TOTALS 'A'
EXISTING BREAKER/CIRCUIT TO REMAIN					225A LUGS		2255	1491		SUB-TOTALS 'B'
NEW OR REVISED BREAKER/CIRCUIT					225A FEED		2255	1491		GRAND TOTAL
(E) EXISTING CIRCUIT					VERIFY SIZE		19A	12A		AMPS/PHASE

TOTAL CONNECTED LOAD

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

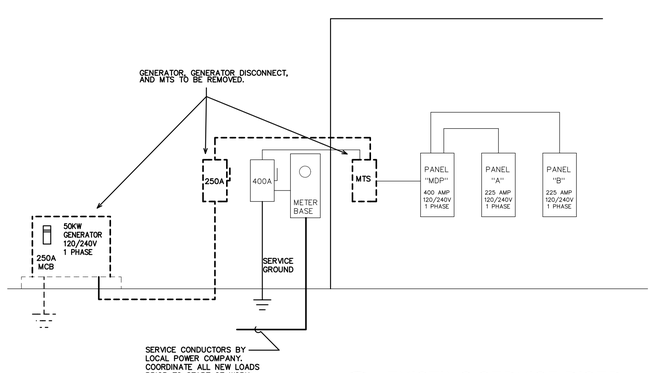
LOAD TYPE		DEMAND FACTOR(6)	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING (2)		125%	---	---	---
TRACK LIGHTING		125%	---	---	---
GENERAL USE		≤10KVA@100%	360	---	360
RECEPTACLES		>10KVA@50%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	1744	1744	3488
	ALL OTHERS	100%	500	96	596
WATER HEATERS		125%	---	---	---
KITCHEN EQUIPMENT (3)		100%	---	---	---
FIX. ELEC. SPACE HEAT. (4)		100%	---	---	---
SHOW WINDOW LIGHTS (5)		125%	---	---	---
SIGN		125%	---	---	---
MISC		100%	---	---	---
PHASE (TOTAL VA)			2604	1840	4444
TOTAL AMPS			22A	15A	VOLT AMPS / VOLTS = 19A TOTAL AMPS

Polk County Rest Area E6.0

EQUIPMENT WIRING SCHEDULE

EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
DOAS-1	103.2A	110A	240V	1	3-#2, 1-#6 GND IN 1 1/4" CONDUIT
DOAS-2	103.2A	110A	240V	1	3-#2, 1-#6 GND IN 1 1/4" CONDUIT
EWH	(4.5KW)	30A	240V	1	2-#10, 1-#10 GND IN 1/2" CONDUIT

NOTE:
THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN AND RELEASING GEAR. ADJUST BREAKER, WIRE SIZES, ETC. AS REQUIRED.



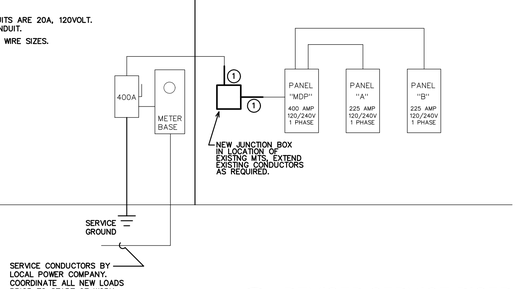
1 EXISTING SERVICE RISER
SCALE: NOT TO SCALE

RISER WIRING SCHEDULE

1. 400A: 3-#500MCM, 1-#3 CU GND, IN 3" CONDUIT

NOTE:
UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT. PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT.
SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING.
EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.



2 REVISED SERVICE RISER
SCALE: NOT TO SCALE

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
PANELS AND RISER- REST AREA

E6.0

PLOT DATE 11/18/2025

This original sheet is 24" x 36"; other dimensions indicate it has been altered.

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Polk County Rest Area E6.1

EXISTING PANEL- 'W'

WELCOME CENTER

MAKE: SQUARE D
TYPE: VERIFY
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☒YES ☐NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
SPACE		---		1		2	---			SPACE
			---	3		4		---		
SPARE	60A	---		5		6	---		60A	AIR HANDLER-1
			---	7		8		---		
AIR HANDLER-2	60A	---		9		10	---		60A	OUTDOOR AC
			---	11		12		---		
SPACE		---		13		14	---		150A	PANEL 'LP'
			---	15		16		---		
NOTES	SUB-TOTALS 'B'	---	---		400A	BUS	---	---	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
					400A	LUGS	---	---	SUB-TOTALS 'B'	
					400A	FEED	---	---	GRAND TOTAL	
					VERIFY	SIZE	--A	--A	AMPS/PHASE	

Polk County Rest Area E6.1

REVISED PANEL- 'W'

WELCOME CENTER

MAKE: SQUARE D
TYPE: VERIFY
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☒YES ☐NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
SPACE		---		1		2	---			SPACE
			---	3		4		---		
SPARE	60A	---		5		6	5760		60A	AIR HANDLER-1
			---	7		8		5760		
AIR HANDLER-2	60A	5760		9		10	5760		60A	OUTDOOR AC
			5760	11		12		5760		
SPACE		---		13		14	14448		150A	PANEL 'LP'
			---	15		16		13149		
NOTES	SUB-TOTALS 'B'	5760	5760		400A	BUS	25968	24669	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
EXISTING BREAKER/CIRCUIT TO REMAIN NEW OR REVISED BREAKER/CIRCUIT					400A	LUGS	5760	5760	SUB-TOTALS 'B'	
					400A	FEED	31728	30429	GRAND TOTAL	
					VERIFY	SIZE	264A	254A	AMPS/PHASE	

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR(1)	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING (2)		125%	3843	3449	7292
TRACK LIGHTING		125%	---	---	---
GENERAL USE		≤10KVA@100%	2340	2340	4680
RECEPTACLES		>10KVA@50%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	7200	7200	14400
	ALL OTHERS	100%	11520	11520	23040
WATER HEATERS		125%	2813	2813	5626
KITCHEN EQUIPMENT (3)		100%	4696	5800	10496
FIX. ELEC. SPACE HEAT. (4)		100%	---	---	---
SHOW WINDOW LIGHTS (5)		125%	---	---	---
SIGN		125%	1500	---	1500
MISC		100%	888	---	888
PHASE (TOTAL VA)			34800	33122	67922
TOTAL AMPS			290A	276A	VOLT AMPS / VOLTS = 283A TOTAL AMPS

Polk County Rest Area E6.1

EXISTING PANEL- 'LP'

WELCOME CENTER

MAKE: SQUARE D
TYPE: VERIFY
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: FLUSH
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
LTS - OFFICE & DISPLAY	20A	---		1		2	---		20A	LTS - SERVICE AREA
LTS - WALL WASH	20A		---	3		4		---	20A	LTS - STORAGE & FOYER
LTS - RECEPTION & VALANCE	20A	---		5		6	---		20A	SPARE
LTS - TERRACE	20A		---	7		8		---	20A	SPARE
LTS - BROCHURE RACKS	20A	---		9		10	---		20A	REC - SUN & SERVICE AREA
REC - OFFICE	20A		---	11		12		---	20A	REC - DISPLAY & STORAGE
REC - OFFICE & FIRE PLACE	20A	---		13		14	---		20A	EWC
REC - OFFICE & STORAGE	20A		---	15		16		---	20A	SPARE
RANGE EXHAUST FAN	20A	---		17		18	---		20A	SIGN FLOOD LTS
REFRIGERATOR	20A		---	19		20		---	20A	SPARE
SPARE	20A	---		21		22	---		20A	SPARE
WATER HEATER	30A		---	23		24		---	20A	REC - COUNTER
		---		25		26	---		20A	REC- GALLERY
RANGE	50A		---	27		28		---	20A	SPARE
		---		29		30	---		20A	CARD DISPLAY & REC
NOTES	SUB-TOTALS 'B'	---	---		225A	BUS	---	---	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
					225A	LUGS	---	---	SUB-TOTALS 'B'	
					150A	FEED	---	---	GRAND TOTAL	
					VERIFY	SIZE	--A	--A	AMPS/PHASE	

Polk County Rest Area E6.1

REVISED PANEL- 'LP'

WELCOME CENTER

MAKE: SQUARE D
TYPE: VERIFY
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: FLUSH
MINIMUM AIC: VERIFY
MLO MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
LTS - EXTERIOR	20A	1152		1		2	902		20A	LTS - WELCOME CENTER
LTS - EXTERIOR	20A		960	3		4		582	20A	LTS - WELCOME, STORAGE, AIRLOCK
LTS - EXTERIOR	20A	1020		5		6	---		20A	SPARE
LTS - HELP, BREAK, STORAGE	20A		1217	7		8		---	20A	SPARE
SPARE	20A	---		9		10	540		20A	REC - SUN & SERVICE AREA
REC - OFFICE	20A		540	11		12		540	20A	REC - DISPLAY & STORAGE
REC - OFFICE & FIRE PLACE	20A	540		13		14	888		20A	EWC
REC - OFFICE & STORAGE	20A		540	15		16		---	20A	SPARE
RANGE EXHAUST FAN	20A	696		17		18	1200		20A	SIGN FLOOD LTS
REFRIGERATOR	20A		1800	19		20		---	20A	SPARE
SPARE	20A	---		21		22	---		20A	SPARE
WATER HEATER	30A		2250	23		24		720	20A	REC - COUNTER
		2250		25		26	720		20A	REC- GALLERY
RANGE	50A		4000	27		28		---	20A	SPARE
		4000		29		30	540		20A	CARD DISPLAY & REC
NOTES	SUB-TOTALS 'B'	9658	11307		225A	BUS	4790	1842	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
EXISTING BREAKER/CIRCUIT TO REMAIN NEW OR REVISED BREAKER/CIRCUIT					225A	LUGS	9658	11307	SUB-TOTALS 'B'	
					150A	FEED	14448	13149	GRAND TOTAL	
					VERIFY	SIZE	120A	110A	AMPS/PHASE	

NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR(1)	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING (2)		125%	3843	3449	7292
TRACK LIGHTING		125%	---	---	---
GENERAL USE		≤10KVA@100%	2340	2340	4680
RECEPTACLES		>10KVA@50%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	---	---	---
	ALL OTHERS	100%	---	---	---
WATER HEATERS		125%	2813	2813	5626
KITCHEN EQUIPMENT (3)		100%	4696	5800	10496
FIX. ELEC. SPACE HEAT. (4)		100%	---	---	---
SHOW WINDOW LIGHTS (5)		125%	---	---	---
SIGN		125%	1500	---	1500
MISC		100%	888	---	888
PHASE (TOTAL VA)			16080	14402	30482
TOTAL AMPS			134A	120A	VOLT AMPS / VOLTS = 127A TOTAL AMPS

Polk County Rest Area E6.1

EXISTING PANEL- 'C'

VENDING BLDG

MAKE: EATON
TYPE: PRL1A
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
400A MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☒YES ☐NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
REC- PHONE BOARD	20A	540		1		2	2000		30A	SITE LIGHTING
REC- V102,V103,V104	20A		1080	3		4		2000		
REC- V105, AUTOMATIC DOOR	20A	720		5		6	2000		30A	SITE LIGHTING
LTS - INTERIOR	20A		868	7		8		2000		
VENDING- V101	20A	1800		9		10	100		20A	SITE LIGHTING CONTACTOR
VENDING- V101	30A		1800	11		12		1800	20A	VENDING- V101
SPARE	30A	---		13		14	1800		20A	VENDING- V101
			---	15		16		1800	20A	VENDING- V101
SPARE	30A	---		17		18	1800		20A	VENDING- V101
			---	19		20		1800	20A	VENDING- V101
SMALL VEND. SHED	100A	4000		21		22	1800		20A	VENDING- V101
			4000	23		24		1800	20A	VENDING- V101
SPACE		---		25		26	1800		20A	VENDING- V101
SPACE			---	27		28		---	20A	SPARE
SPACE		---		29		30	---		20A	SPARE
SPACE			---	31		32		6372	60A	AHU
SPACE		---		33		34	6372			
SPACE			---	35		36		3024	40A	CU
SPACE		---		37		38	3024			
SPACE			---	39		40		---		SPACE
SPACE		---		41		42	---			SPACE
NOTES	SUB-TOTALS 'B'	7060	7748		400A	BUS	20696	20596	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
					400A	LUGS	7060	7748	SUB-TOTALS 'B'	
					400A	FEED	27756	28344	GRAND TOTAL	
					VERIFY	SIZE	231A	236A	AMPS/PHASE	

Polk County Rest Area E6.1

REVISED PANEL- 'C'

VENDING BLDG

MAKE: EATON
TYPE: PRL1A
RATING: 120/240V 1 PHASE 3 WIRE
MOUNTING: SURFACE
MINIMUM AIC: VERIFY
400A MAIN CIRCUIT BREAKER
EQUIPMENT GROUND BUS ☒YES ☐NO
SERVICE ENTRY RATED ☒YES ☐NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
REC- PHONE BOARD	20A	540		1		2	2000		30A	SITE LIGHTING
REC- V102,V103,V104	20A		1080	3		4		2000		
REC- V105, AUTOMATIC DOOR	20A	720		5		6	2000		30A	SITE LIGHTING
LTS - INTERIOR	20A		1237	7		8		2000		
VENDING- V101	20A	1800		9		10	100		20A	SITE LIGHTING CONTACTOR
VENDING- V101	30A		1800	11		12		1800	20A	VENDING- V101
SPARE	30A	---		13		14	1800		20A	VENDING- V101
			---	15		16		1800	20A	VENDING- V101
SPARE	30A	---		17		18	1800		20A	VENDING- V101
			---	19		20		1800	20A	VENDING- V101
SMALL VEND. SHED	100A	4000		21		22	1800		20A	VENDING- V101
			4000	23		24		1800	20A	VENDING- V101
SPACE		---		25		26	1800		20A	VENDING- V101
SPACE			---	27		28		---	20A	SPARE
SPACE		---		29		30	---		20A	SPARE
SPACE			---	31		32		6372	60A	AHU
SPACE		---		33		34	6372			
SPACE			---	35		36		3024	40A	CU
SPACE		---		37		38	3024			
SPACE			---	39		40		---		SPACE
SPACE		---		41		42	---			SPACE
NOTES	SUB-TOTALS 'B'	7060	8117		400A	BUS	20696	20596	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
EXISTING BREAKER/CIRCUIT TO REMAIN NEW OR REVISED BREAKER/CIRCUIT					400A	LUGS	7060	8117	SUB-TOTALS 'B'	
					400A	FEED	27756	28713	GRAND TOTAL	
					VERIFY	SIZE	231A	239A	AMPS/PHASE	

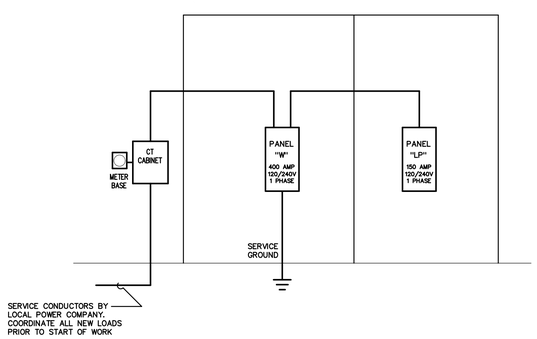
NEC ALLOWABLE DEMAND FACTORS

1. DEMAND FACTORS PER NEC 220
2. LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD
3. NEC TABLE 220.56
4. NEC 220.51
5. NEC 220.43A, 200 VA/LINEAR FT
6. NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED

DIVERSIFIED LOAD SUMMARY

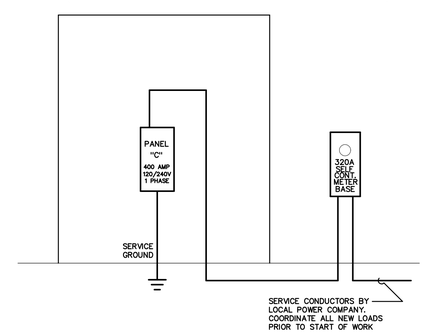
LOAD TYPE		DEMAND FACTOR(1)	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING (2)		125%	5900	6546	12446
TRACK LIGHTING		125%	---	---	---
GENERAL USE		≤10KVA@100%	540	1080	1620
RECEPTACLES		>10KVA@50%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	7965	7965	15930
	ALL OTHERS	100%	12124	12024	24148
WATER HEATERS		125%	---	---	---
KITCHEN EQUIPMENT (3)		100%	---	---	---
FIX. ELEC. SPACE HEAT. (4)		100%	---	---	---
SHOW WINDOW LIGHTS (5)		125%	---	---	---
SIGN		125%	---	---	---
MISC		100%	4000	4000	8000
PHASE (TOTAL VA)			30529	31615	62144
TOTAL AMPS			254A	263A	VOLT AMPS / VOLTS = 259A TOTAL AMPS

NOTE:
THE ELECTRICAL SERVICE IS EXISTING AND SHOWN FOR REFERENCE ONLY.
NO NEW WORK IS REQUIRED.



1 ELECTRICAL SERVICE RISER - WELCOME CNTR
SCALE: NOT TO SCALE

NOTE:
THE ELECTRICAL SERVICE IS EXISTING AND SHOWN FOR REFERENCE ONLY.
NO NEW WORK IS REQUIRED.



1 ELECTRICAL SERVICE RISER - VENDING BLDG.
SCALE: NOT TO SCALE

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12/13/2025

SCO#25-30577-01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I-26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
PANELS AND RISER- VENDING, WELCOME

E6.1

PLOT DATE 11/18/2025

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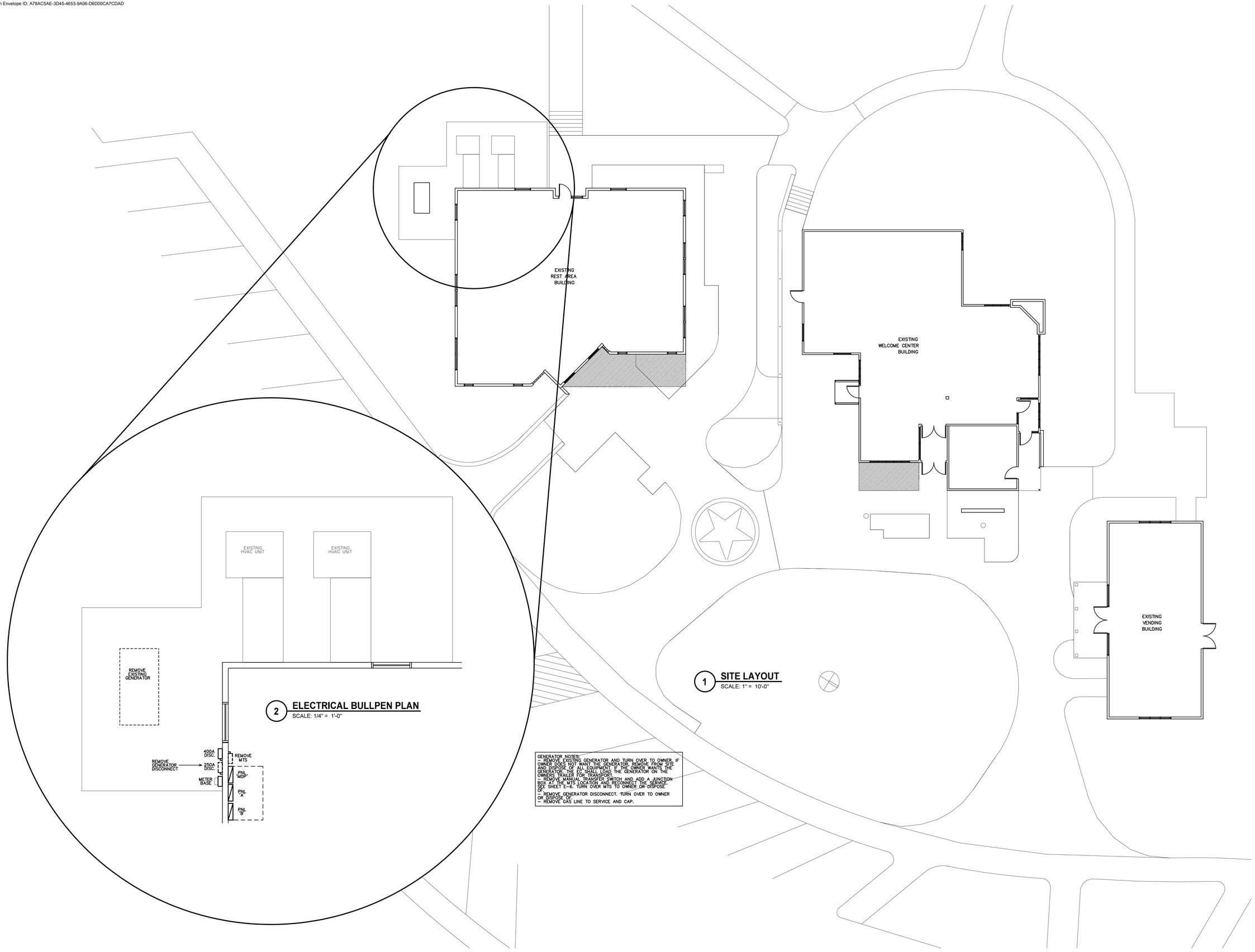

1 **SITE LAYOUT**
SCALE: 1" = 10'-0"

2 **ELECTRICAL BULLPEN PLAN**
SCALE: 1/4" = 1'-0"

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12/13/2025

SCO#25–30577–01

PROJECT TITLE
POLK COUNTY WELCOME CENTER & REST AREA

I–26
CITY, NORTH CAROLINA

PROJECT NO.
2404c

DRAWING TITLE
ELECTRICAL SITE PLAN

E7.0

PLOT DATE 11/18/2025

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