

# DARE COUNTY REST AREA RENOV. US 64 MANTEO, NC

## NC DEPT. OF INSURANCE 2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 & 2 - FAMILY DWELLINGS AND DOWNHOUSES) (REPRODUCE THE FOLLOWING DATA ON THE BUILDING PLANS SHEET 1 OR 2)

# NC

Name Of Project: **DARE COUNTY REST AREA RENOVATION**  
 Address: **US 64, MANTEO, NC**  
 Zip Code: **27954**  
 Owner Or Authorized Agent: **W. S. Architects, PA** Phone: (919) 779-9797 E-mail: [ginger@wsarchitectspa.com](mailto:ginger@wsarchitectspa.com)  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  Town  County  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:	---	---	---	---	---
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  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  V-B

SPRINKLERS:  NO  PARTIAL  NFPA 13  NFPA 13R  NFPA 13D

STANDPIPES:  NO CLASS  II  III  WET  DRY

PRIMARY FIRE DISTRICT:  NO  YES FLOOD HAZARD AREA:  NO  YES

SPECIAL INSPECTIONS REQUIRED:  NO  YES

GROSS BUILDING AREA	EXISTING (SF)	NEW (SF)	SUB-TOTAL	TENANT
3RD FLOOR	---	---	---	---
2ND FLOOR	---	---	---	---
MEZZANINE	---	---	---	---
1ST FLOOR	2,239	---	2,239	---
BASEMENT	---	---	---	---
<b>TOTAL</b>	<b>2,239</b>	---	<b>2,239</b>	---

**ALLOWABLE AREA:**

PRIMARY OCCUPANCY:  A-1  A-2  A-3  A-4  A-5

BUSINESS  
 EDUCATIONAL  
 FACTORY  
 HIGH-HAZARD  
 INSTITUTIONAL

MERCANTILE  
 RESIDENTIAL  
 STORAGE

UTILITY & MISCELLANEOUS

R-1  R-2  R-3  R-4  
 S-1 Moderate  S-2 Low  HIGH-PILED  
 PARKING GARAGE  OPEN  ENCLOSED  REPAIR GARAGE

**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: \_\_\_\_\_

Actual Area of Occupancy A + Actual Area of Occupancy B  
 Allowable Area of Occupancy A + Allowable Area of Occupancy B ≤ 1.00

STORY NO.	DESCRN AND USE	(A)	(B)	(C)	(D)
		BLDG AREA PER STORY (ACTUAL)	TABLE 506.2 AREA	AREA FOR OPEN SPACE INCREASE <sup>1,5</sup>	ALLOWABLE AREA OR UNLIMITED <sup>2,3</sup>
1	---	2,239	9,000	6,750	15,750
1	S	2,239s	9,000	6,750	15,750
---	---	---	---	---	---

- Frontage Area Increases From Section 506.2 Are Completed Thus:
  - Perimeter Which Fronts A Public Way Or Open Space Having 20 Ft Min. Width = 910' (F).
  - Total Building Perimeter = 910' (P).
  - Ratio (F/P) = 1 (F/P).
  - W = Minimum Width Of Public Way = 30 (W).
- Unlimited area applicable under conditions of Section 507.
- Max. Building Area = Total No. Of Stories In The Building X D (maximum 3 stories) (506.2).
- 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.
- 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 SEPN REQ'D (FT)	RATING REQ'D	RATING PROV'D (W/ REDUCTION)	DETAIL # AND SHEET #	DES. # FOR RATED ASSY	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	---	---	---	---	---	---	---
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:  YES  NO SMOKE DETECTION SYSTEMS:  YES  NO  
 EXIT SIGNS:  YES  NO PANIC HARDWARE:  YES  NO  
 FIRE ALARM:  YES  NO

**LIFE SAFETY PLAN REQUIREMENTS** ALL EXISTING LIFE SAFETY TO REMAIN

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)  
 OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)  
 OCCUPANT LOADS FOR EACH AREA  
 EXIT ACCESS TRAVEL DISTANCES (1017)  
 COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))  
 DEAD END LENGTHS (1020.4)  
 CLEAR EXIT WIDTHS FOR EACH EXIT DOOR  
 MAXIMUM CALCULATED OCCUPANT LOAD CAPACITY EACH EXIT DOOR CAN ACCOMMODATE BASED ON EGRESS WIDTH (1005.3)  
 ACTUAL OCCUPANT LOAD FOR EACH 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)  
 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)

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

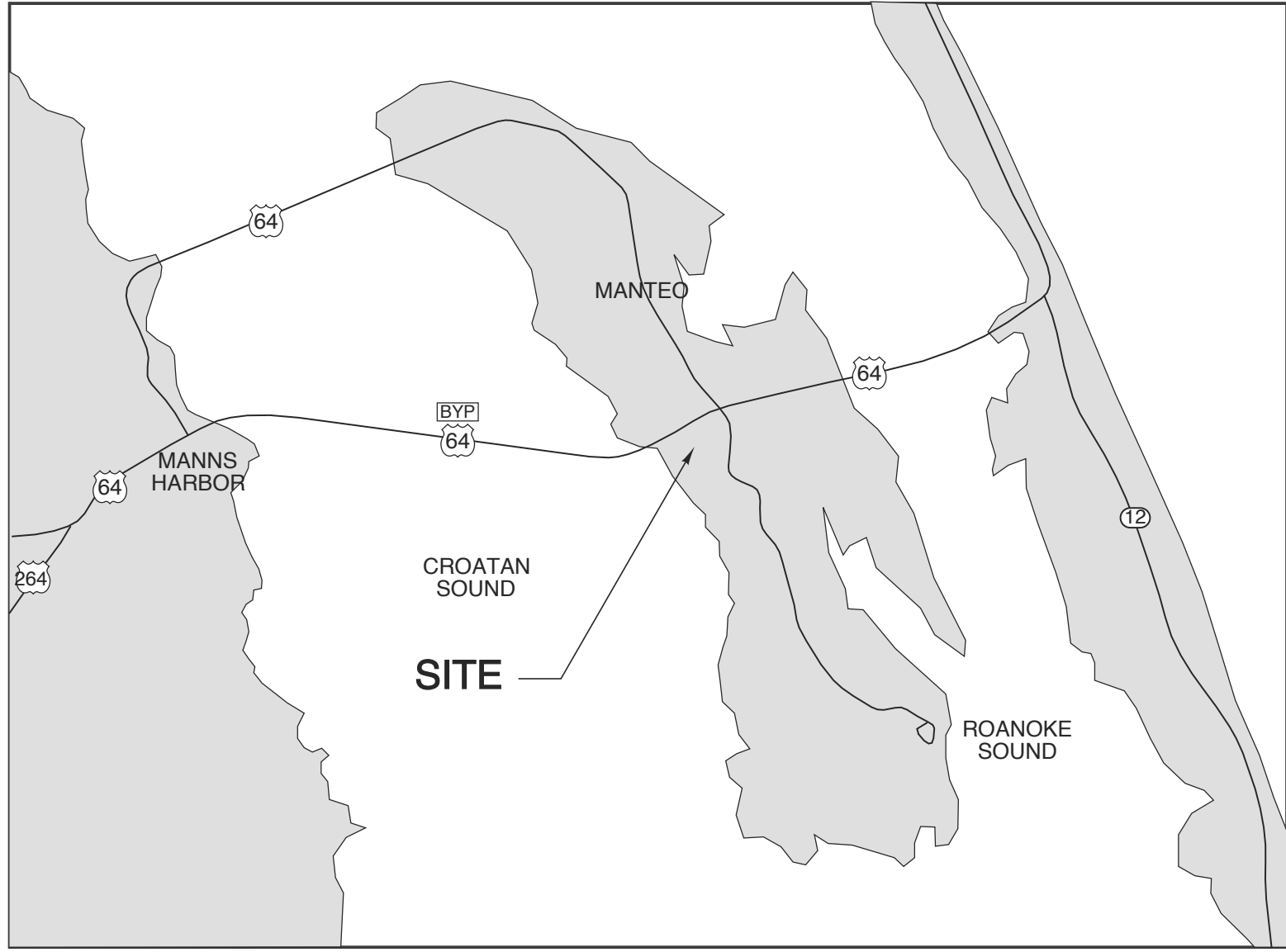
LOT OR PARKING AREA	TOTAL # OF SPACES REQ'D	# OF ACCESSIBLE SPACES PROV'D	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REG. WITH 5' ACCESS AISLE	132' ACCESS AISLE	8' ACCESS AISLE	
---	---	---	---	---	---	---
<b>TOTAL</b>	---	---	---	---	---	---

**PLUMBING FIXTURE REQUIREMENT** (TABLE 403.1)  
 23 OCCUPANTS- 12 MALE/ 12 FEMALE

USE	WATERCLOSETS			URINALS		LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX	MALE	FEMALE	MALE	FEMALE	UNISEX	REGULAR	ACCESSIBLE
EXIST'G	4	8	1	2	4	4	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)



**1 VICINITY MAP**  
 SCALE: NTS

## 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 reference: \_\_\_\_\_  
 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 (1 W) --- SNOW (1 S) --- SEISMIC (1 E) ---  
 LIVE LOADS: ROOF --- psf MEZZANINE --- psf FLOOR --- psf  
 GROUND SNOW LOAD: --- psf  
 WIND LOAD: BASIC WIND SPEED --- mph (ASCE-7) EXPOSURE CATEGORY ---  
 SEISMIC DESIGN CATEGORY  A  B  C  D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:  
 OCCUPANCY CATEGORY (TABLE 1604.5)  I  II  III  IV  
 SPECTRAL RESPONSE ACCELERATION  A  B  C  D  
 SITE CLASSIFICATION (ASCE 7)  A  B  C  D  
 --- Field Test --- Presumptive --- Historical Data

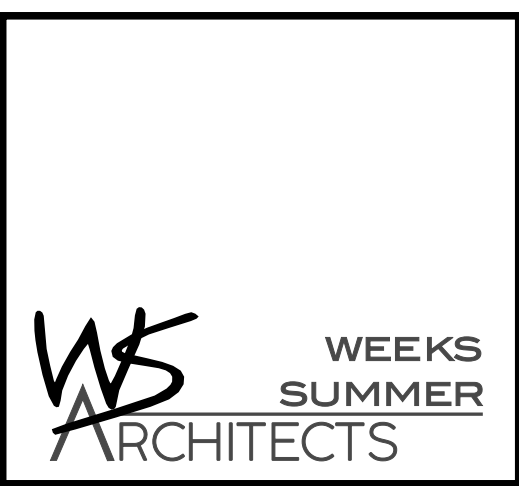
**BASIC STRUCTURAL SYSTEM** (check one)  
 --- BEARING WALL --- DUAL W/SPECIAL MOMENT FRAME  
 --- BUILDING FRAME --- DUAL W/INTERMEDIATE R/C OR SPECIAL STEEL  
 --- MOMENT FRAME --- INVERTED PENDULUM  
 ANALYSIS PROCEDURE --- SIMPLIFIED --- EQUIVALENT LATERAL FORCE --- DYNAMIC

ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED  YES  NO  
 LATERAL DISGN CONTROL: EARTHQUAKE  WIND

SOIL BEARING CAPACITIES:  
 FIELD TEST (PROVIDE COPY OF TEST REPORT) --- psf  
 PRESUMPTIVE BEARING CAPACITY --- psf  
 PILE SIZE, TYPE, AND CAPACITY ---

## DRAWING INDEX

A0.1	Cover Sheet
A0.2	Life Safety Plan
L1	Exist. Site Plan (for reference)
A1.1	Demo Plan
A1.2	Floor Plan
A1.3	Finish Plan
A1.4	Roof Plan & RCP
A2	Elevations
A3.1	Int. Elevations
A3.3	Details
A4	Details & Partial Section
P1	Plumbing Notes & Schedules
P2	Existing Plumbing Plan
P3	Revised Plumbing Plan
M1	HVAC Notes & Schedules
M2	Existing HVAC Plan
M3	Revised HVAC Plan
E1	Electrical Details & Legend
E2	Existing Lighting Plan
E3	Revised Lighting Plan
E4	Existing Power Plan
E5	Revised Power Plan
E6	Panels & Riser



W. S. ARCHITECTS, PA  
 3305-109 Durham Drive  
 Raleigh, North Carolina 27603  
 919.779.9797  
 www.wsarchitectspa.com



**BID SET 8.12.25**

## SCO # 25-29818-01A

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
 VISITORS CENTER CIRCLE  
 MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**

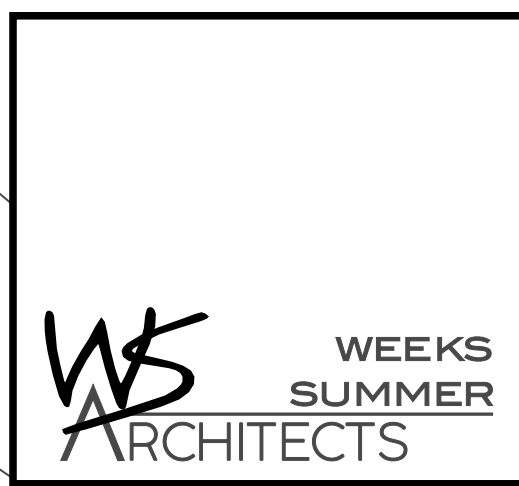
DRAWING TITLE  
**COVER SHEET**

SHEET 1 OF 10

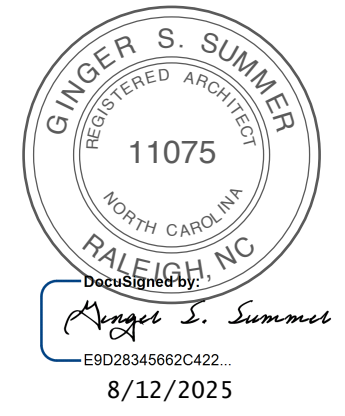
# A0.1

PLOT DATE 8/12/25  
 REVISION ---

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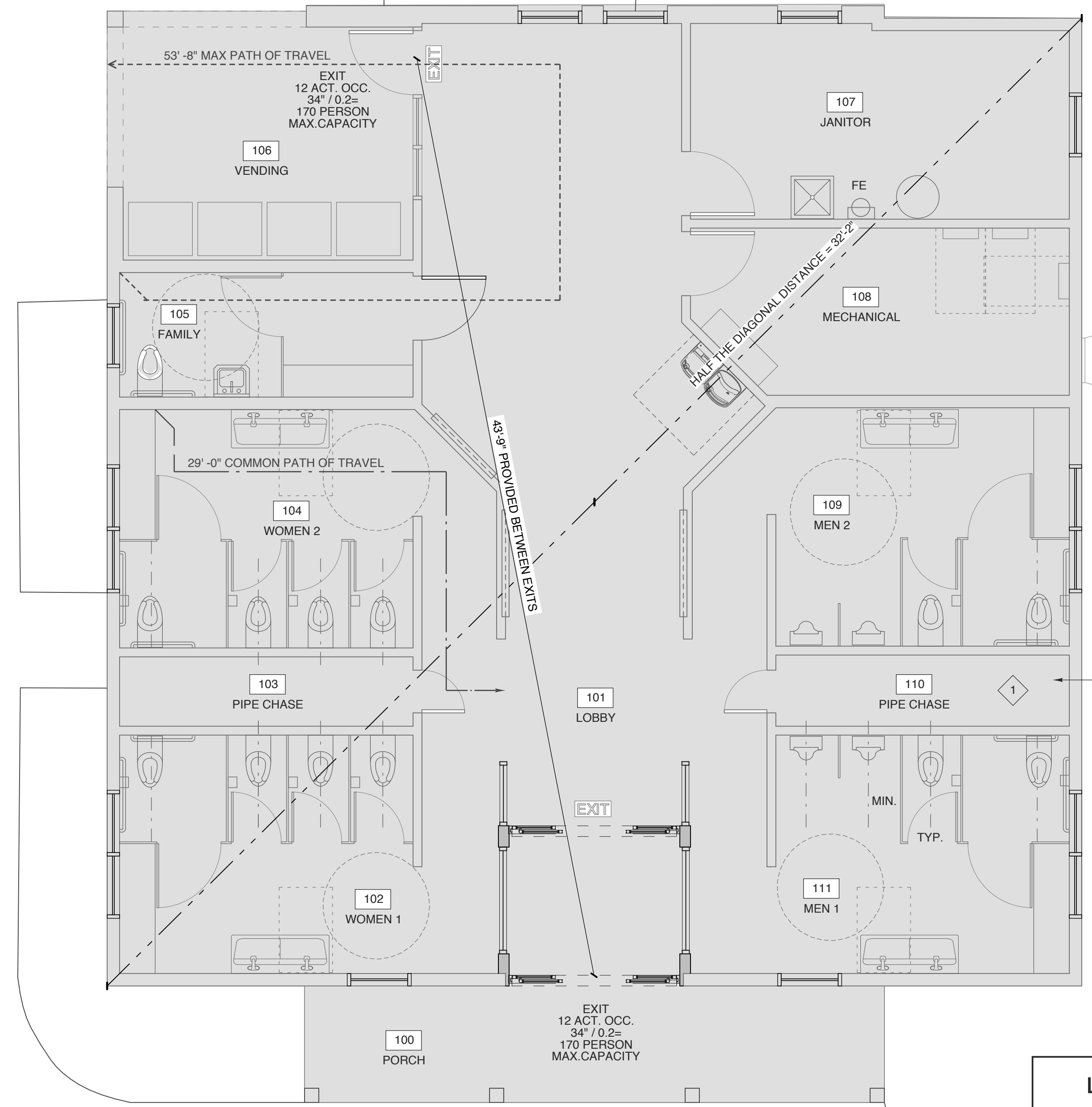


W. S. ARCHITECTS, PA  
3305-109 Durham Drive  
Raleigh, North Carolina 27603  
919.773.9797  
www.wsarchitectspa.com



BID SET  
8.12.25

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



EXIST. PICNIC SHELTER

TOTAL OCCUPANCY BUSINESS 2,239 SF/100 = 23 OCCUPANTS

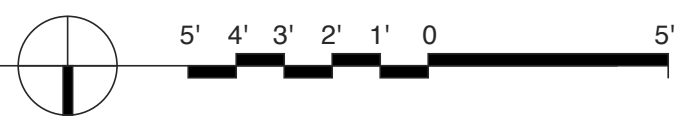
EXISTING WELCOME CENTER TO REMAIN NO WORK INCLUDED IN CONTRACT

EXISTING PAVING TO REMAIN

TO PARKING SEE SITE PLAN INCLUDED FOR REFERENCE

LEGEND	
	EGRESS PATH
	FIRE EXTINGUISHER

**1 LIFE SAFETY**  
SCALE: 1/4" = 1'-0"



SCO # 25-29818-01A

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**  
DRAWING TITLE  
**LIFE SAFETY**

SHEET 2 OF 10

**A0.2**

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**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 MANNER.

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.

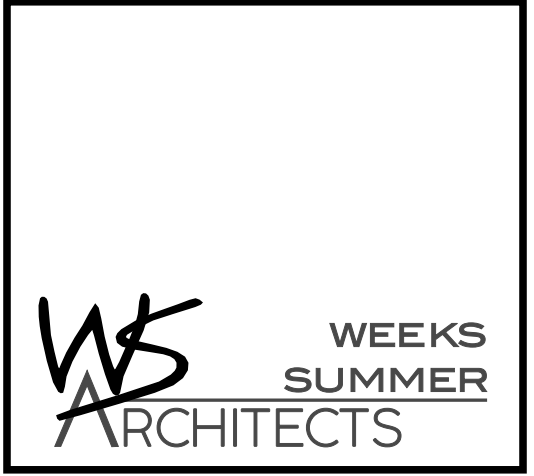
IF CONSTRUCTION REQUIRES AN INTERRUPTION OF SERVICES TO THE BUILDING, THE OWNER AND ARCHITECT SHALL BE NOTIFIED AND AN APPROPRIATE TIMING WILL BE AGREED UPON.

**WALL LEGEND**

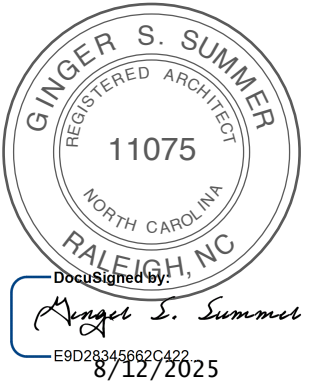
	EXIST. EXT. WALL W/ SIDING AND WOOD FRAMING
	EXIST. INT. WALL WOOD FRAMING
	EXIST. TO BE REMOVED

**SCOPE OF WORK NOTES**

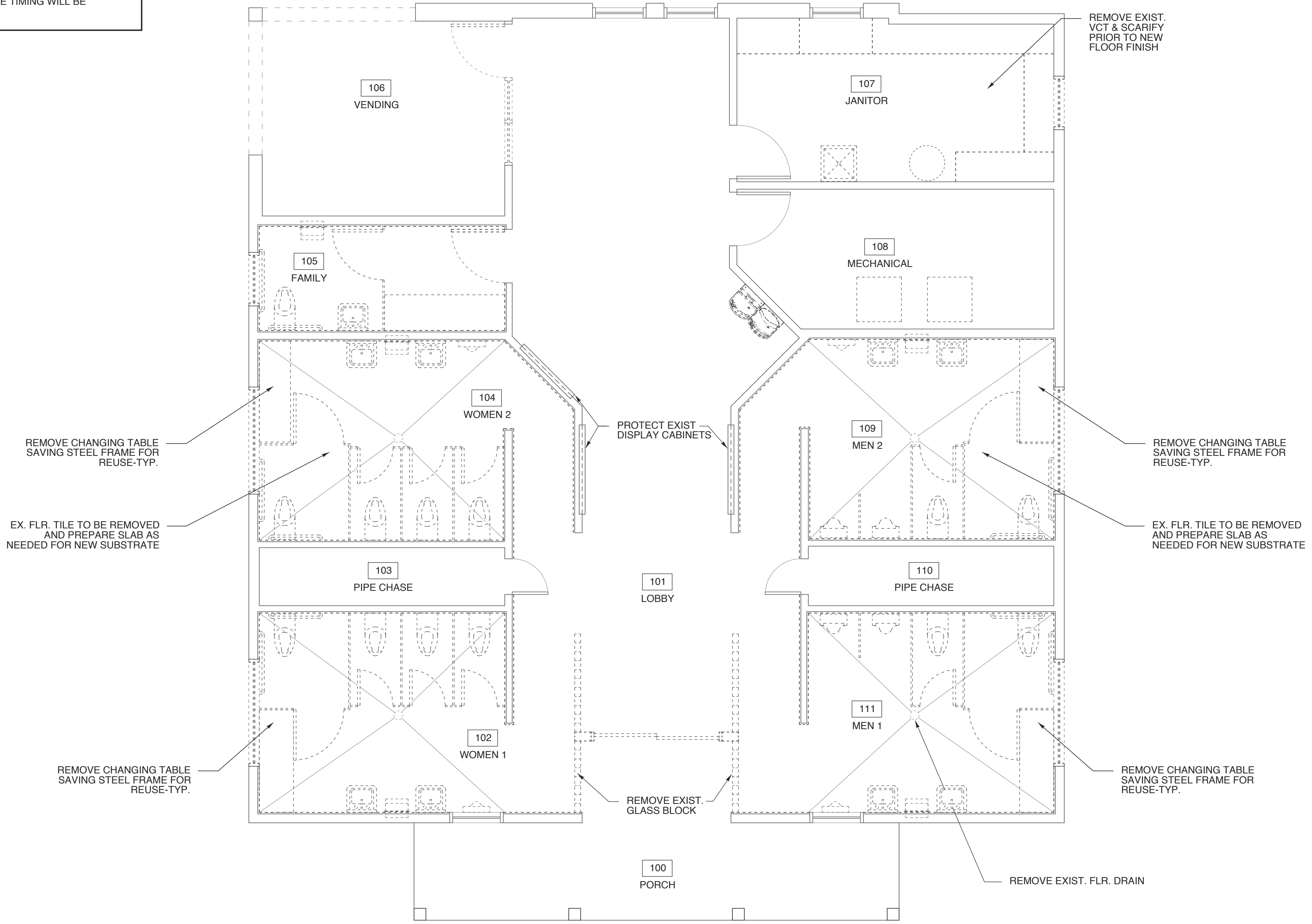
- REMOVE EXISTING WALL & FLOOR TILE, REPAIR SUBSTRATE AS NEEDED
- DEMO EXISTING PLUMBING FIXTURES, INCLUDING CARRIERS
- DEMO EXISTING TOILET ACCESSORIES
- DEMO EXISTING TOILET PARTITIONS
- REMOVE EXISTING DOORS, FRAMES & HARDWARE
- REMOVE EXIST. CHANGING TABLES-SAVE STEEL FRAMES FOR REUSE IF FEASIBLE
- REMOVE EXIST. WINDOWS-PROTECT OPENINGS AS NEEDED



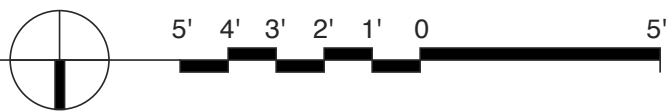
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Raleigh, North Carolina 27603  
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BID SET  
8.12.25



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



SCO # 25-29818-01A

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**

DRAWING TITLE  
**DEMO PLAN**

SHEET 3 OF 10

**A1.1**

PLOT DATE 8/12/25  
REVISION ---

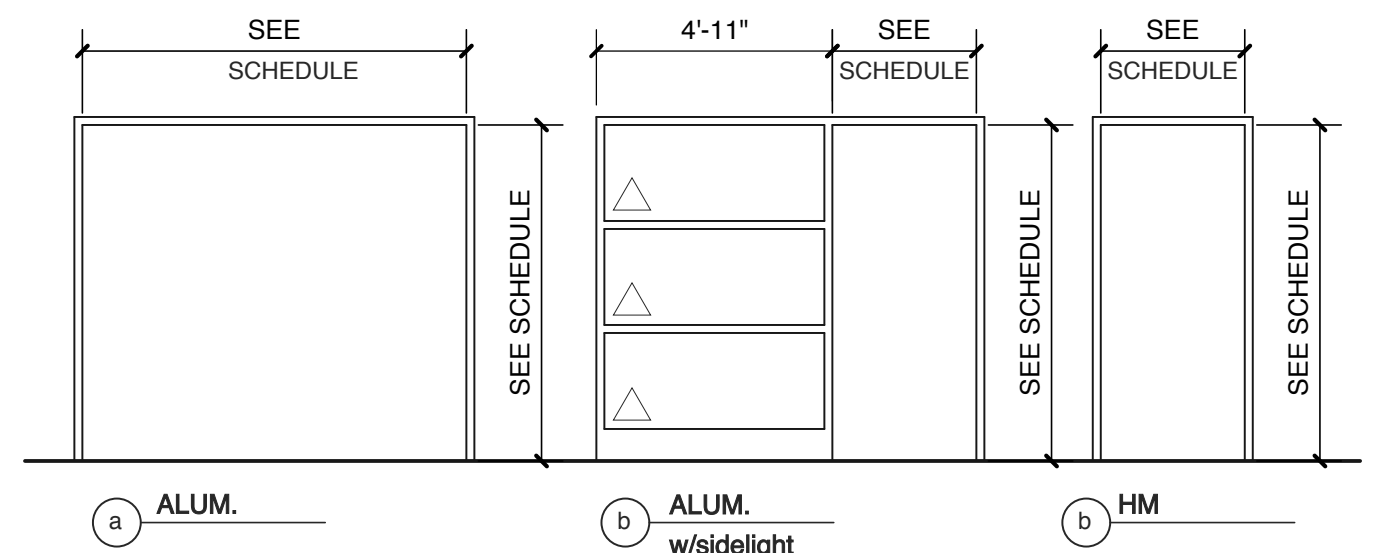
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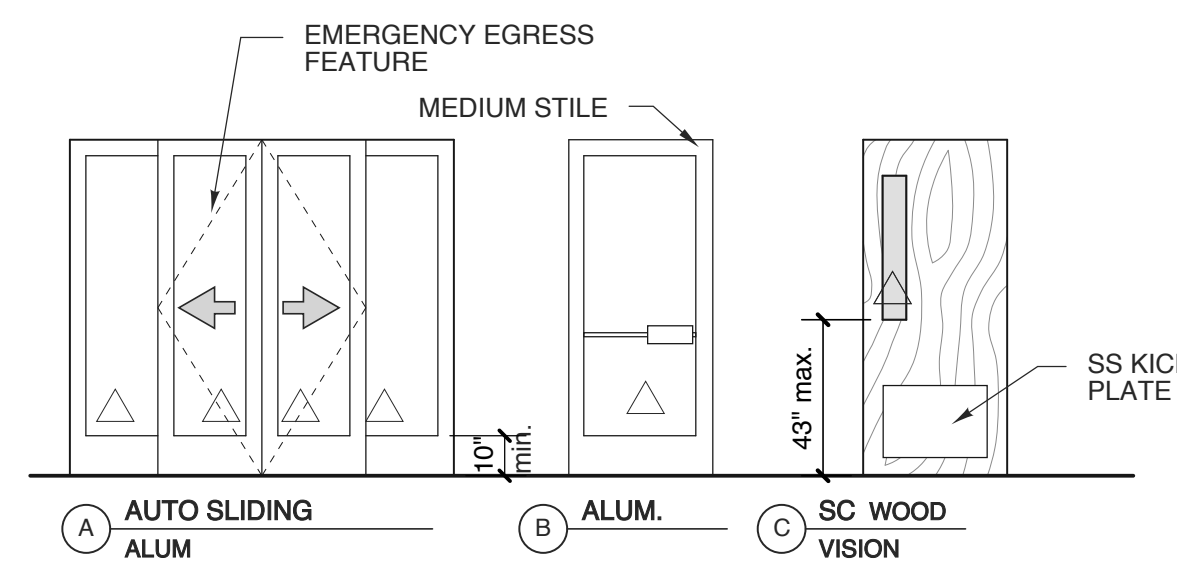
DOOR SCHEDULE							
MARK	DOOR			FRAME		HWDR SET NO.	REMARKS
	SIZE	MATL	TYPE	TYPE	DETAILS		
1	8'-0" x 7'-0" x 1-3/4"	ALUM	A	a	---	1	CLEAR ANODIZED FINISH & TINTED INSULATED GLASS-SEE NOTES
2	8'-0" x 7'-0" x 1-3/4"	ALUM	A	a	---	1	CLEAR ANODIZED FINISH & TINTED INSULATED GLASS-SEE NOTES
3	2'-0" x 7'-0" x 1-3/4"	EXISTING	---	---	---	4	REFINISH DOOR - REPLACE ALL HARDWARE
4	2'-0" x 7'-0" x 1-3/4"	EXISTING	---	---	---	4	REFINISH DOOR - REPLACE ALL HARDWARE
5	3'-0" x 7'-0" x 1-3/4"	SC WD	C	c	---	2	OBSURE, TEMPERED GLASS
6	3'-0" x 7'-0" x 1-3/4"	EXISTING	---	---	---	3	REFINISH DOOR - REPLACE ALL HARDWARE
7	3'-0" x 7'-0" x 1-3/4"	EXISTING	---	---	---	3	REFINISH DOOR - REPLACE ALL HARDWARE
8	3'-0" x 7'-0" x 1-3/4"	ALUM	B	b	---	5	CLEAR ANODIZED FINISH & TINTED INSULATED GLASS-SEE NOTES

**NOTES:**  
 - COORDINATE KEYING OF HARDWARE WITH OWNER  
 - DOOR HANDLES TO BE LEVER HANDLE  
 - ALL DOORS TO MEET NCSBC SECTION 1609.1.2  
 - ALL NEW ENTRANCE DOORS TO MEET ENERGY REQ.  
 U-FACTOR = 0.77 MAX.  
 SHCG = 0.25 MAX.

**HARDWARE SETS**  
 1. AUTOMATIC SLIDING WEMERGENCY BREAK AWAY OPERATION  
 2. PASSAGE SET  
 3. STOREROOM FUNCTION LOCKSET  
 4. ADA CUP PULL (COL-405-15CC OR EQUAL)  
 SEE SPEC FOR MORE INFORMATION



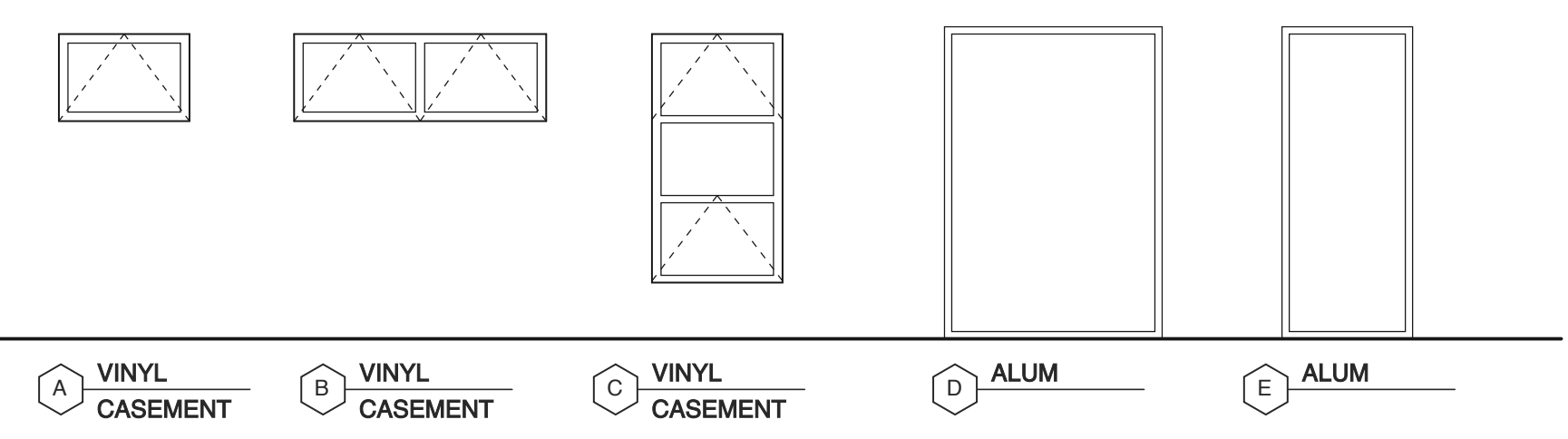
**4 DOOR FRAME TYPES**  
 SCALE: 1/4" = 1'-0" △ INDICATES TEMPERED GLASS



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

WINDOW SCHEDULE							
MARK	W	SIZE	H	TYPE	MATERIAL	GLASS	REMARKS
A	3'-0"	x	2'-0"	A	VINYL	1" INSUL. - OBSCURE	CASEMENT-WHITE
B	2'-3'-0"	x	2'-0"	B	VINYL	1" INSUL. - OBSCURE	CASEMENT-WHITE
C	3'-0"	x	6'-0"	C	VINYL	1" INSUL. - CLEAR	CASEMENT-WHITE
D	5'-0"	x	7'-2"	D	ALUM	ARCH. RESIN PANELS	CLEAR ANODIZED FRAME
E	3'-0"	x	7'-2"	E	ALUM	ARCH. RESIN PANELS	CLEAR ANODIZED 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 FINIS BEFORE INSTALLING NEW WINDOWS PER MANF. SPEC.

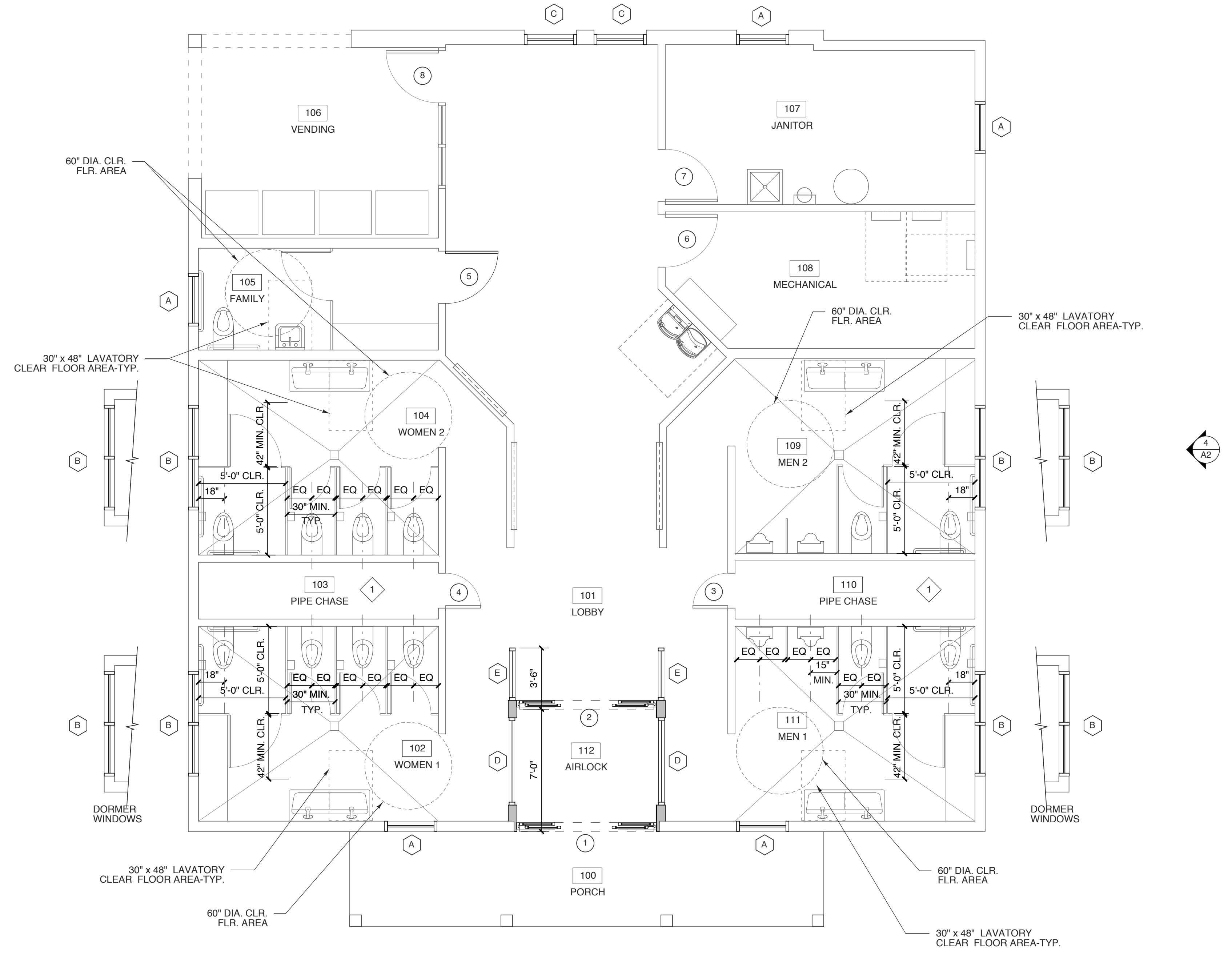


**2 WINDOW TYPES**  
 SCALE: 1/4" = 1'-0" △ INDICATES TEMPERED GLASS

**KEYED NOTES**  
 1. PC & EC TO COORDINATE HEIGHTS OF VALVES AND 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

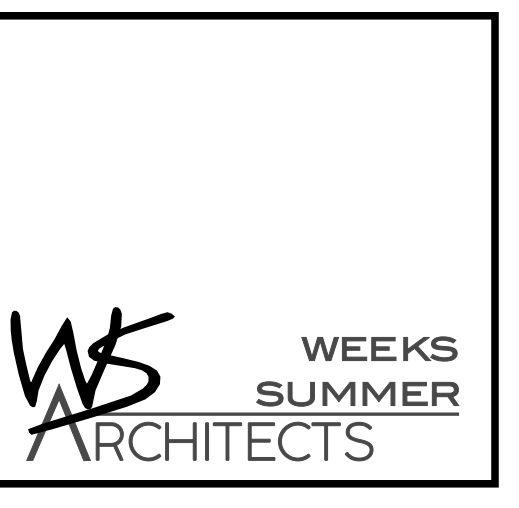
**WALL LEGEND**  
 --- EXIST. EXT. WALL W/ SIDING AND WOOD FRAMING  
 --- EXIST. INT. WALL WOOD FRAMING  
 --- NEW EXT. WALL W/ SIDING & WOOD FRAMING



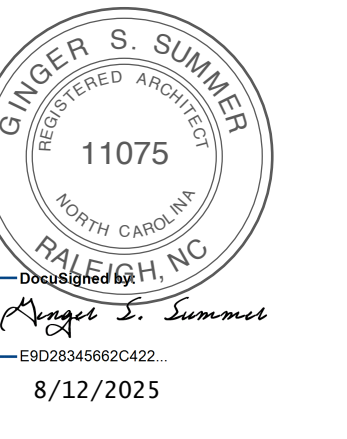
**1 FLOOR PLAN**  
 SCALE: 1/4" = 1'-0"

**SCOPE OF WORK NOTES**

- REMOVE AND REPLACE ROOFING ON REST AREA AND PICNIC SHELTERS.
- REMOVE AND REPLACE EXISTING GUTTERS AND DOWNSPOUTS (LEAF GUARD TYPE)
- ADD AIRLOCK AT FRONT ENTRY
- REMOVE AND REPLACE EXISTING TILE AND VCT
- REMOVE AND REPLACE EXISTING TOILET PARTITIONS AND ACCESSORIES.
- REMOVE AND REPLACE EXISTING LIGHTING WITH NEW LED FIXTURES.
- PAINT ALL INTERIOR WALLS, CEILING AND REFINISH DOORS AS SCHEDULED.
- REPLACE ALL ALUM. STOREFRONT DOOR AND ENTRY
- REMOVE AND REPLACE EXISTING HVAC
- PAINT EXTERIOR FIBER CEMENT SIDING AND PICNIC SHELTERS-PAINT NEW TRIM
- REPLACE DOOR HARDWARE AS SCHEDULED
- REMOVE AND REPLACE ALL INTERIOR AND EXTERIOR BUILDING SIGNAGE
- REMOVE AND REPLACE WATER HEATER
- REMOVE AND REPLACE ALL PLUMBING FIXTURES
- REPLACE WINDOWS & WINDOW TRIM INT & EXT.



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 3305-109 Durham Drive  
 Raleigh, North Carolina 27603  
 919.773.9797  
 www.wsarchitectspa.com



**BID SET**  
 8.12.25

SCO # 25-29818-01A

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
 VISITORS CENTER CIRCLE  
 MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**

DRAWING TITLE  
**FLOOR PLAN**

SHEET 4 OF 10

**A1.2**

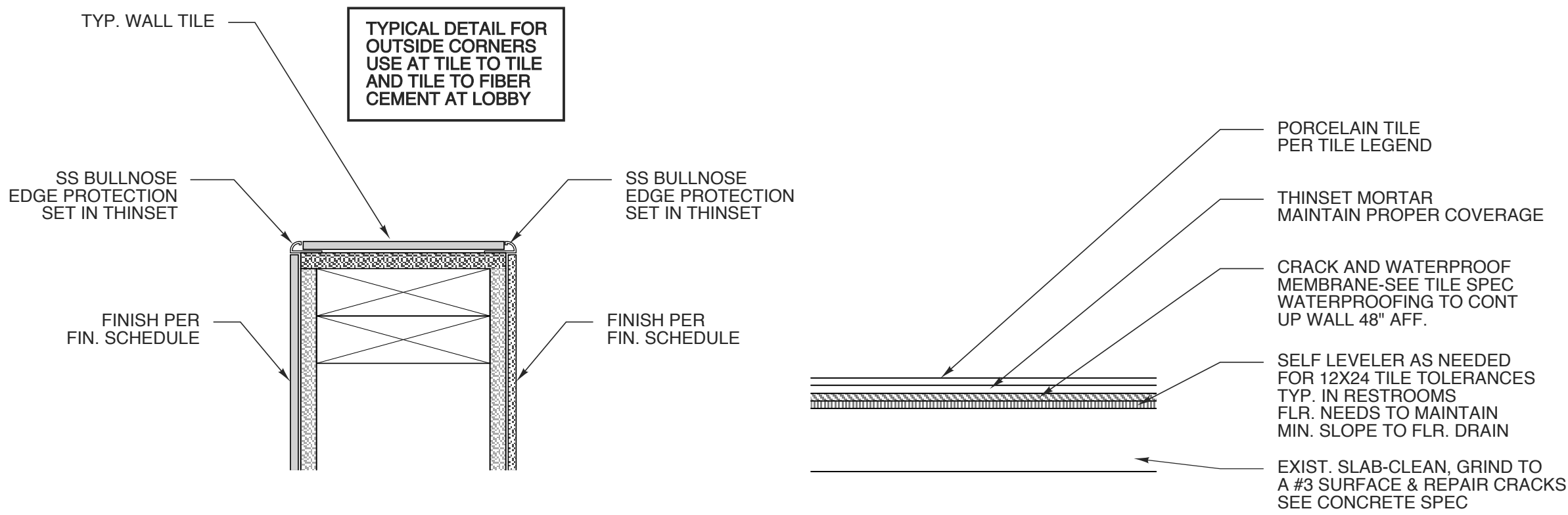
PLOT DATE 8/12/25  
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ROOM FINISH SCHEDULE									
MARK	ROOM NAME	FLOOR	BASE	WALL			WAINSCOT	CEILING MATERIAL	REMARKS / NOTES
				N	E	S			
100	PORCH	EX. CONC.	existing	PAINT COL.			---	PAINT EXIST.	---
101	LOBBY	POR TILE	POR TILE	PAINT EXIST.			---	REPAIR CRACKS PAINT EXIST.	---
102	WOMEN 1	POR TILE	POR TILE	PAINT EXIST.			POR. TILE up to 87"	REPAIR CRACKS PAINT EXIST.	---
103	PIPE CHASE	---	---	---			---	---	---
104	WOMEN 2	POR TILE	POR TILE	PAINT EXIST.			POR. TILE up to 87"	REPAIR CRACKS PAINT EXIST.	---
105	FAMILY	POR TILE	POR TILE	PAINT EXIST.			POR. TILE up to 87"	REPAIR CRACKS PAINT EXIST.	---
106	VENDING	existing	existing	PAINT EXIST.			---	REPAIR CRACKS PAINT EXIST.	---
107	STORAGE / JANITOR	VCT	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.			POR. TILE up to 87"	REPAIR CRACKS PAINT EXIST.	---
110	PIPE CHASE	---	---	---			---	---	---
111	MEN 1	POR TILE	POR TILE	PAINT EXIST.			POR. TILE up to 87"	REPAIR CRACKS PAINT EXIST.	---
112	AIRLOCK	POR TILE	POR TILE	PAINT EXIST.			---	REPAIR CRACKS PAINT EXIST.	---

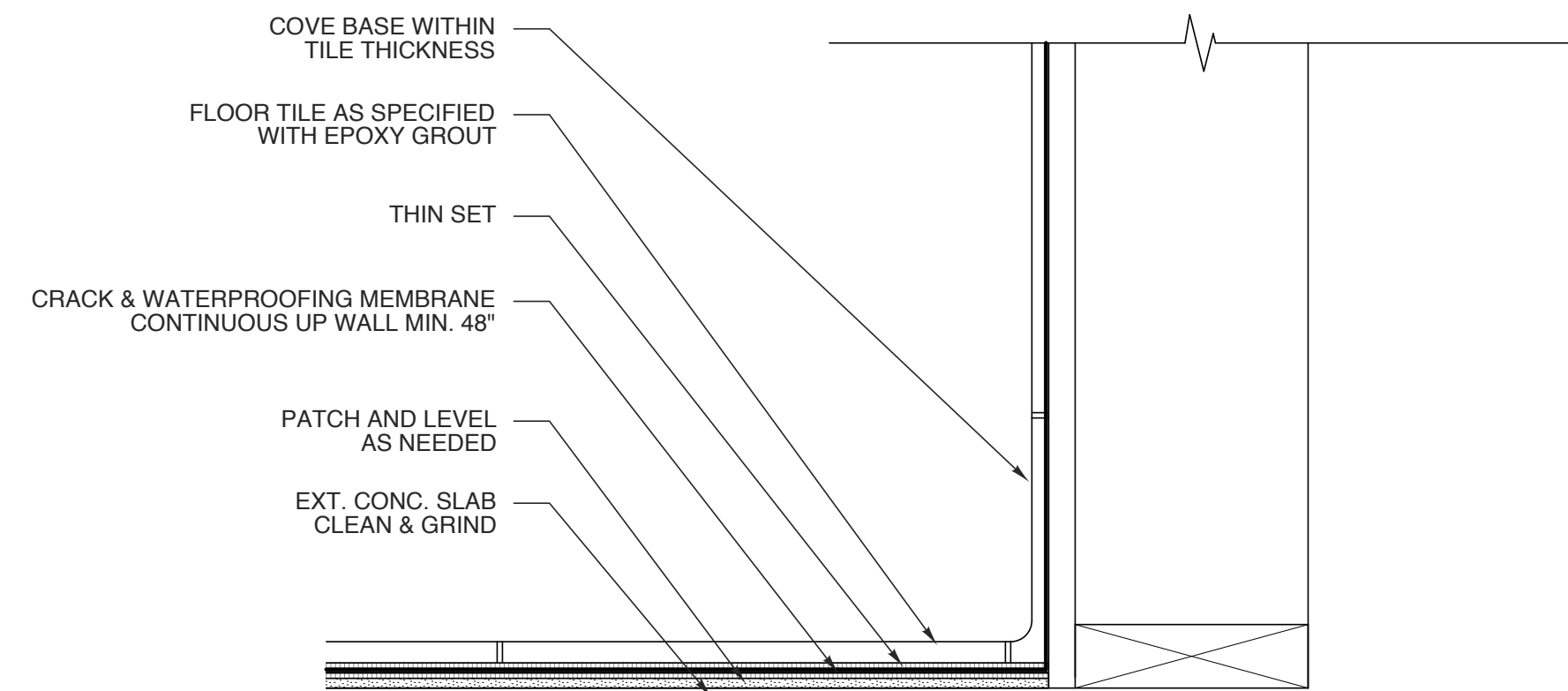
TOILET ACCESSORY SCHEDULE					
MARK	ITEM	MOUNT	MARK	ITEM	MOUNT
A	SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER (B-2892)	28" MIN. 48" MAX. A.F.S.	H	RECESSED PAPER TOWEL DISP. AND WASTE RECEPTACLE (B-3944)	RE: ELEV.
B	AUTOMATIC HANDS FREE LIQUID SOAP DISPENSER (AJW U135 EA)	42" MAX. A.F.S.	J	WELDED 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 OUTSIDE CORNER/END WALL  
SCALE: 3" = 1'-0"

4 SLAB REPAIR/PREP  
SCALE: NTS

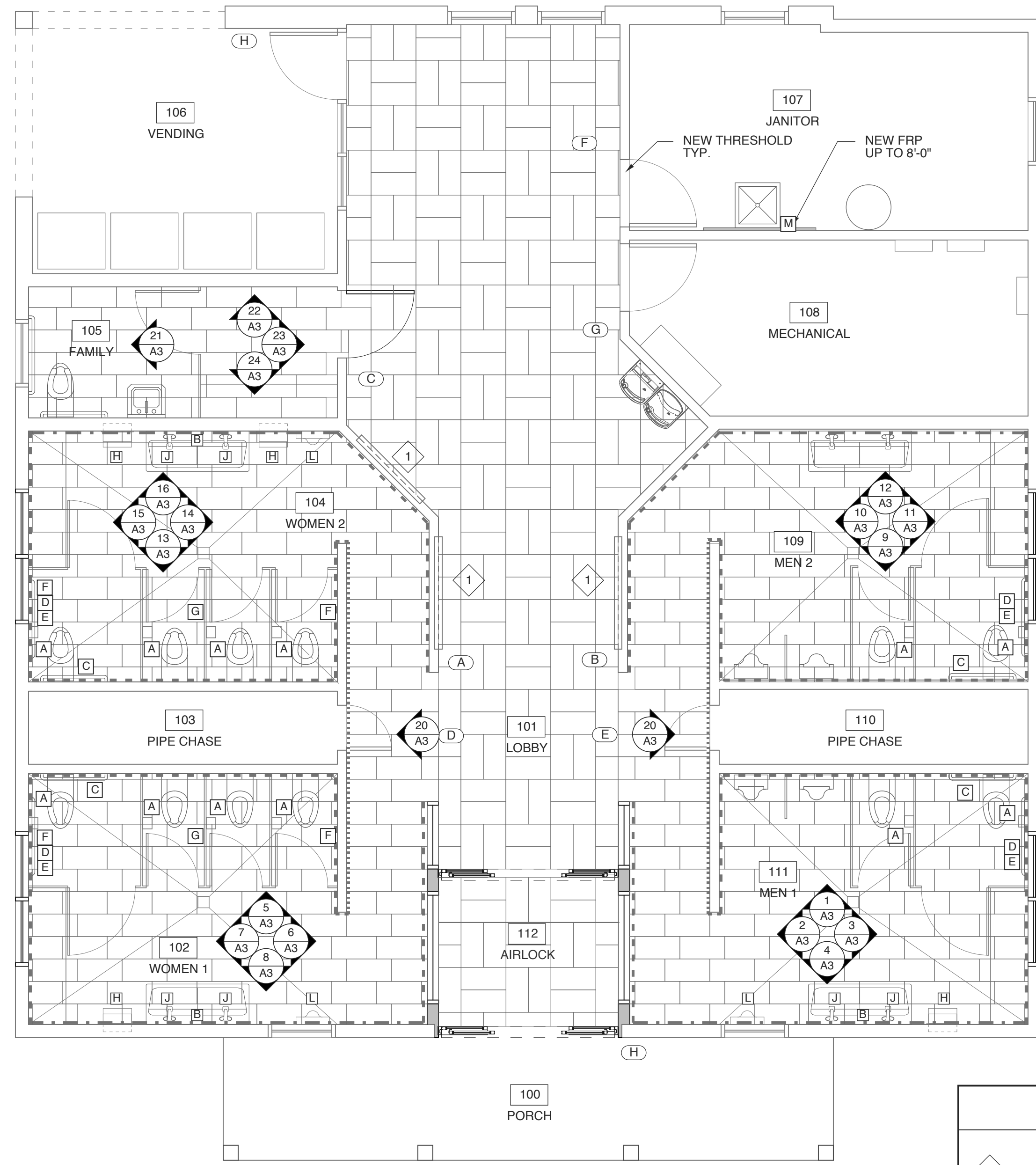


3 FLOOR TILE DETAIL  
SCALE: 3" = 1'-0"

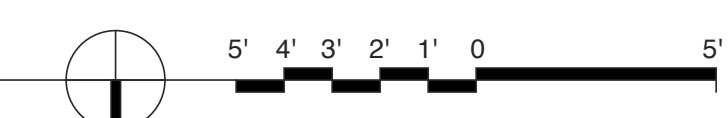
SIGNAGE LEGEND	
(A)	WOMEN-1 PC. MILLED ALUM PER 2/A3
(B)	MEN-1 PC. MILLED ALUM PER 3/A3
(C)	FAMILY-1 PC. MILLED ALUM PER 1/A3
(D)	WOMEN-INDIVIDUAL LETTERS (6")
(E)	MEN-INDIVIDUAL LETTERS (6")
(F)	JANITOR-1 PC. MILLED ALUM PER 8/A3
(G)	ELECTRICAL-1 PC. MILLED ALUM SIM TO 6/A3
(H)	NO SMOKING-1 PC. MILLED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

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 IN RESTROOMS. QUARTER TURN FOR LOBBY. SEE BELOW.
7.	PLAN LAYOUT TO MINIMIZE TILES LESS THAN 1" LAYOUT ON PLAN FOR REFERENCE ONLY
8.	LIPPAGE TOLERANCE IS 1/32". KEEP TO MINIMUM WITH LEVELING ACCESSORIES.

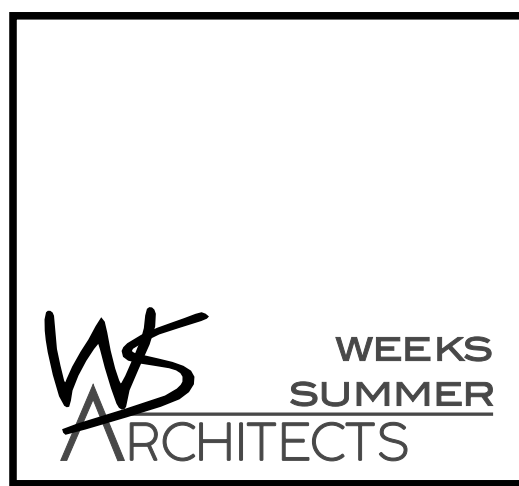
TILE LEGEND			
basis of design	FLOOR TILE	Link	Hook 12x24 with 6x12 cove base
	Best Tile	Breton	Fresh 12x24 polished & 24x24 polished
	TYP WALL TILE	Stonepeak	Plane Pietra Azzurra 60x60 polished
	SINK WALL TILE	Villa	Marine, Glicial & Hijau Green 4x16 vertical
SEE SPEC SECT. 09300 FOR ADDITIONAL INFORMATION & REQUIREMENTS. SPEC ALSO CONTAINS OTHER ACCEPTABLE MANUFACTURERS & COLOR APPROVAL PROCESS.			



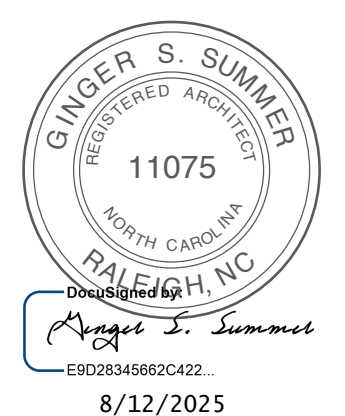
1 FINISH PLAN  
SCALE: 1/4" = 1'-0"



KEYED NOTES	
1	REFINISH EXIST. DISPLAY CASES



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SCO # 25-29818-01A

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

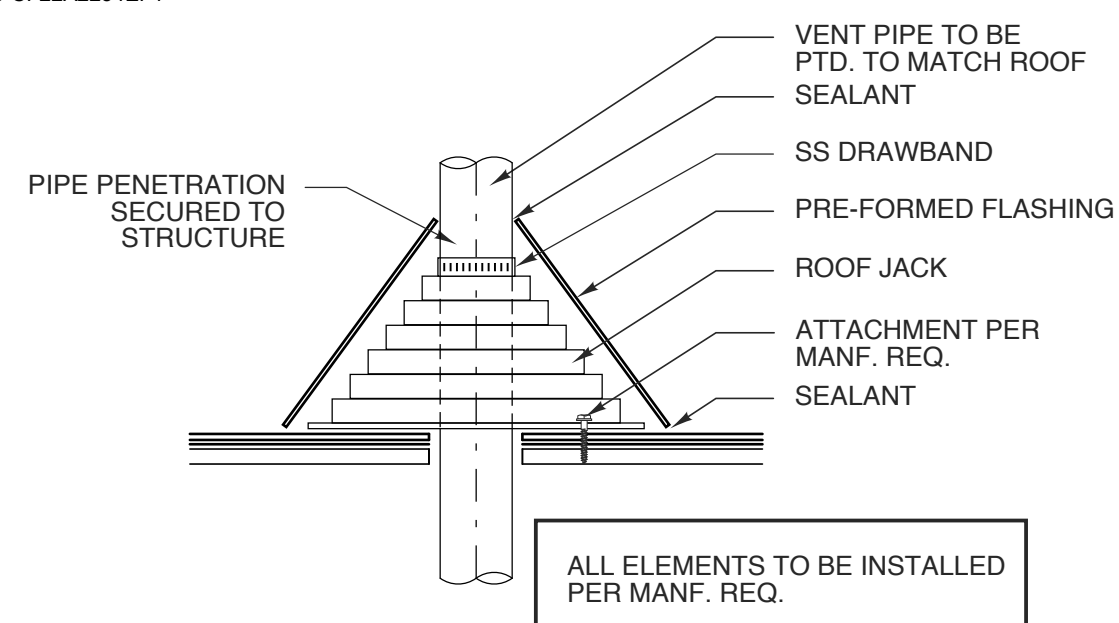
PROJECT NO.  
**2404b**  
DRAWING TITLE  
**FINISH PLAN**

SHEET 5 OF 10

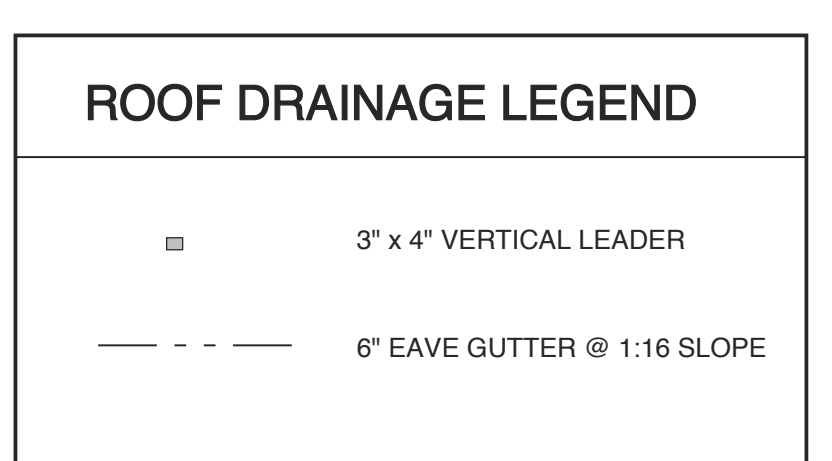
**A1.3**

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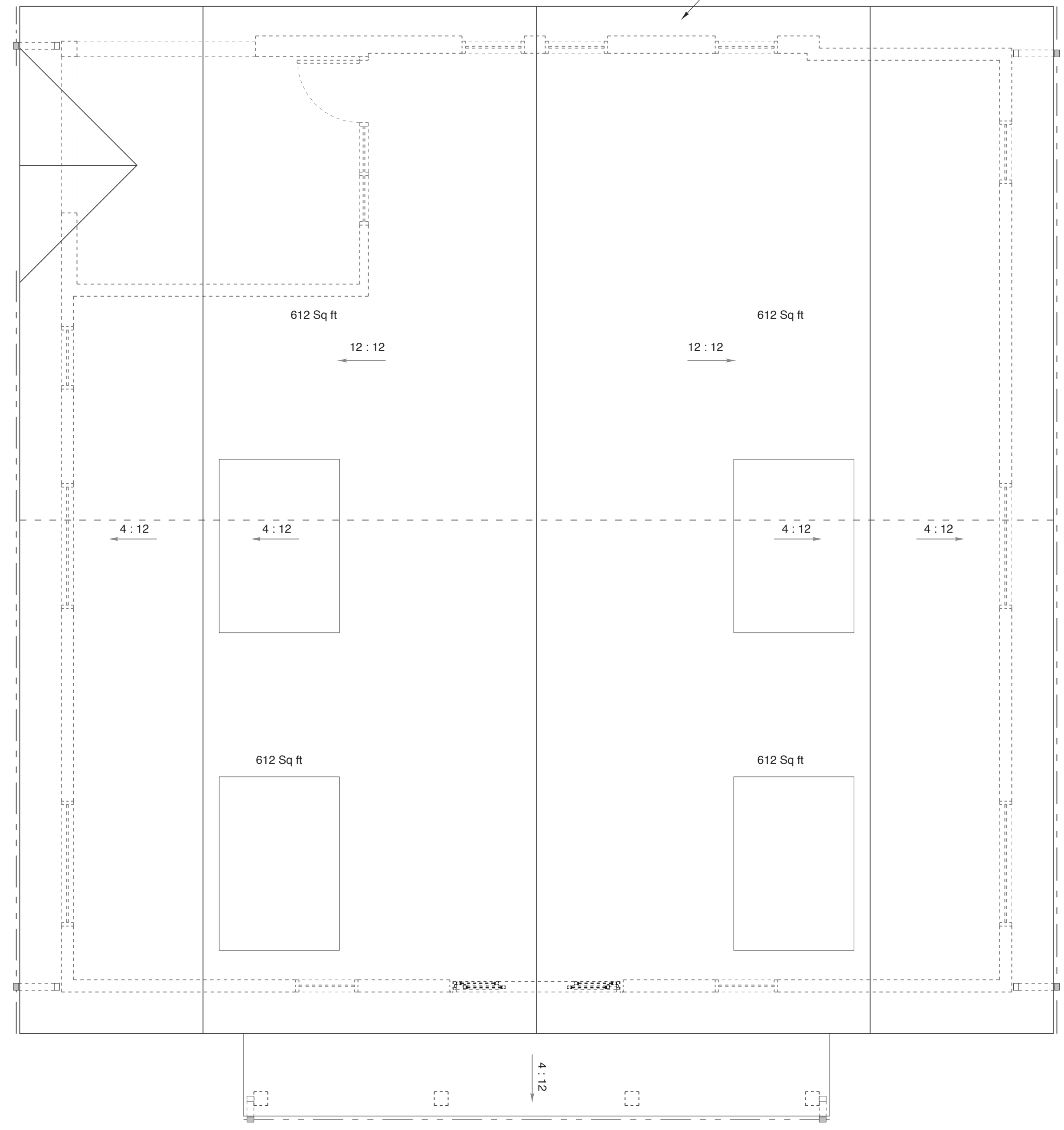


**3 VENT DETAIL**  
SCALE: 1 1/2" = 1'-0"

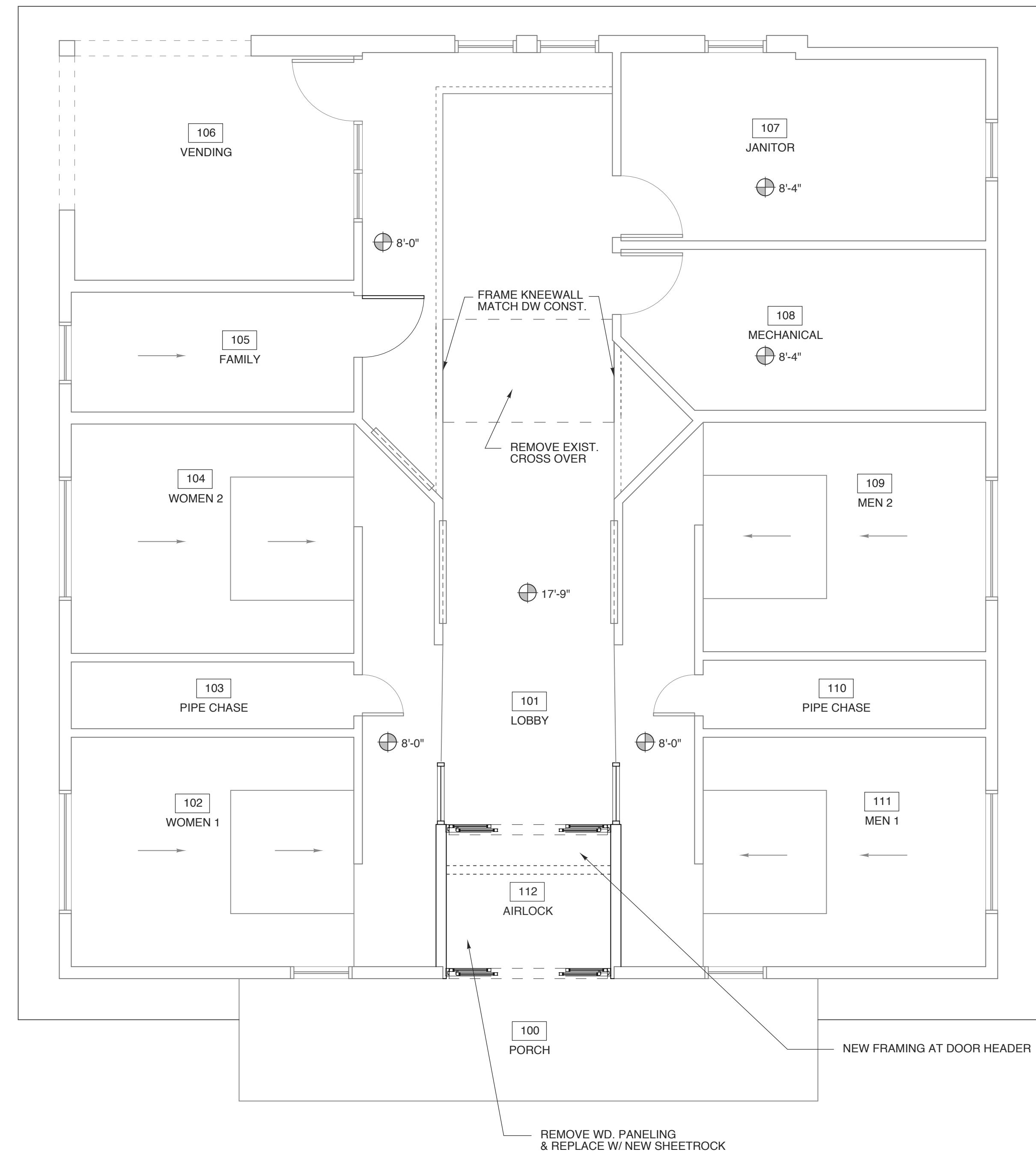
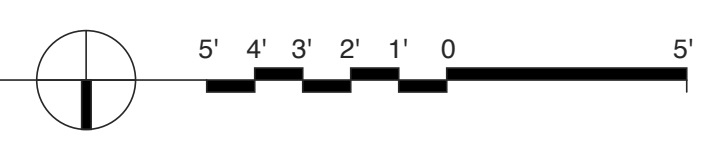


**ROOF DRAINAGE CALCULATIONS**  
PER 2012 NC PLUMBING CODE

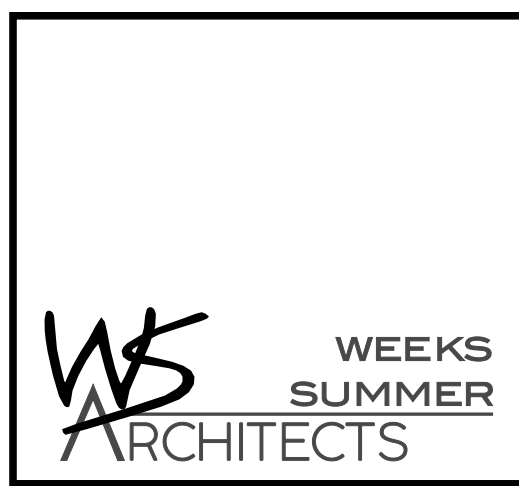
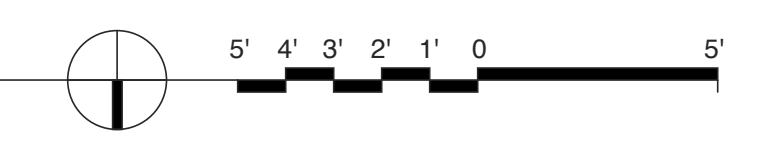
TABLE 1106.2 (2) RECTANGULAR VERTICAL LEADERS		
3X4 @ 4"/HR	3,300 SF MAX AREA	
TABLE 1106.6 SIZE OF SEMI-CIRCULAR ROOF GUTTERS		
5" DIA. @ 4"/HR	625 SF MAX AREA	@ 1/16: 12 (1/2%) SLOPE
6" DIA. @ 4"/HR	960 SF MAX AREA	@ 1/16: 12 (1/2%) SLOPE



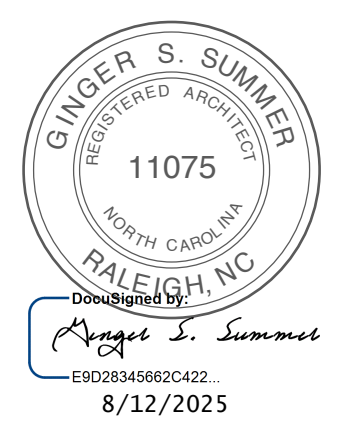
**2 ROOF PLAN**  
SCALE: 1/4" = 1'-0"



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



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**SCO # 25-29818-01A**

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**  
DRAWING TITLE  
**RCP & ROOF PLAN**

SHEET 6 OF 10

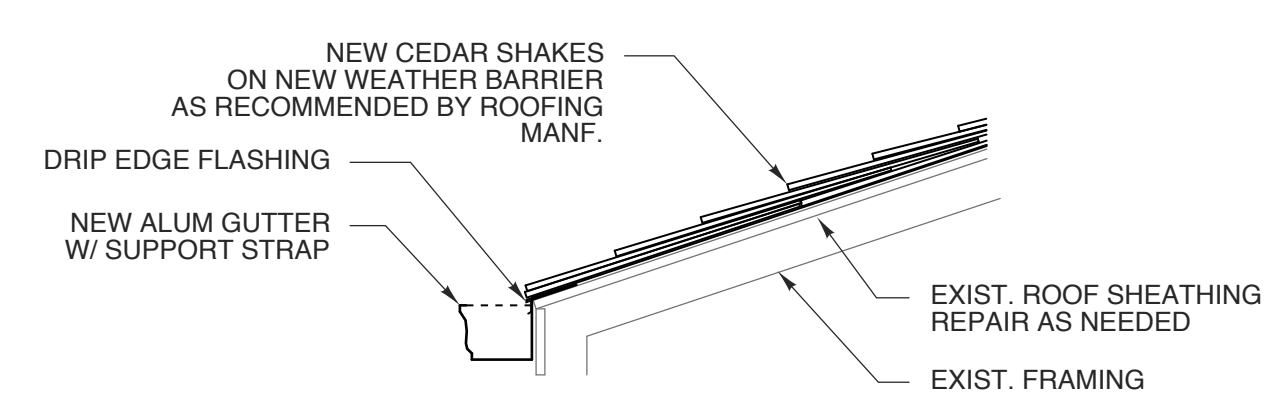
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PLOT DATE 8/12/25  
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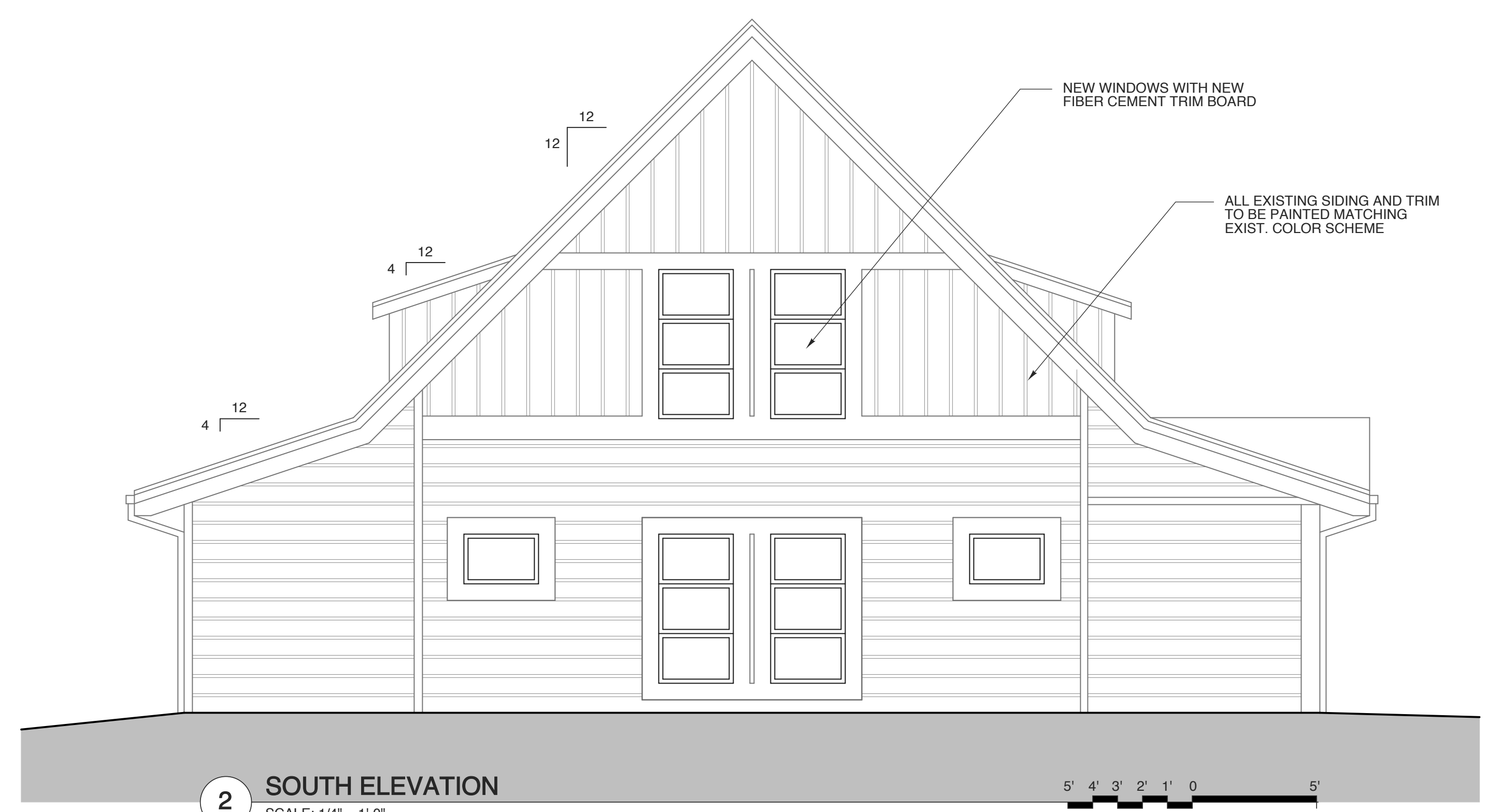
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1. CEDAR HANDSPLIT SHAKES SHALL BE 24" X 1/2" SHAKES WITH 7-1/2" EXPOSURE. PROVIDE DOUBLE STARTER COURSE, NO. 1 GRADE WITH 30" STARTER FELT 15 LBS & 19" WIDE. FELT SHOULD OVERLAP A MIN. OF 4" ON TOP OF EACH SHAKE COURSE. PROVIDE 1/2" SPACE BETWEEN SHAKE & A 1-1/2" MIN. OFFSET OF COURSING JOINTS.

A. PROVIDE 20" WIDE VALLEY FLASHING  
 B. PROVIDE RIDGE SHAKES OVER RIDGE VENTS W/ 10" EXPOSURES.  
 C. USE A MIN OF 2-SS 316 BD. NAILS PER SHAKE. DO NOT DRIVE NAIL HEADS DEEP INTO SHAKES.



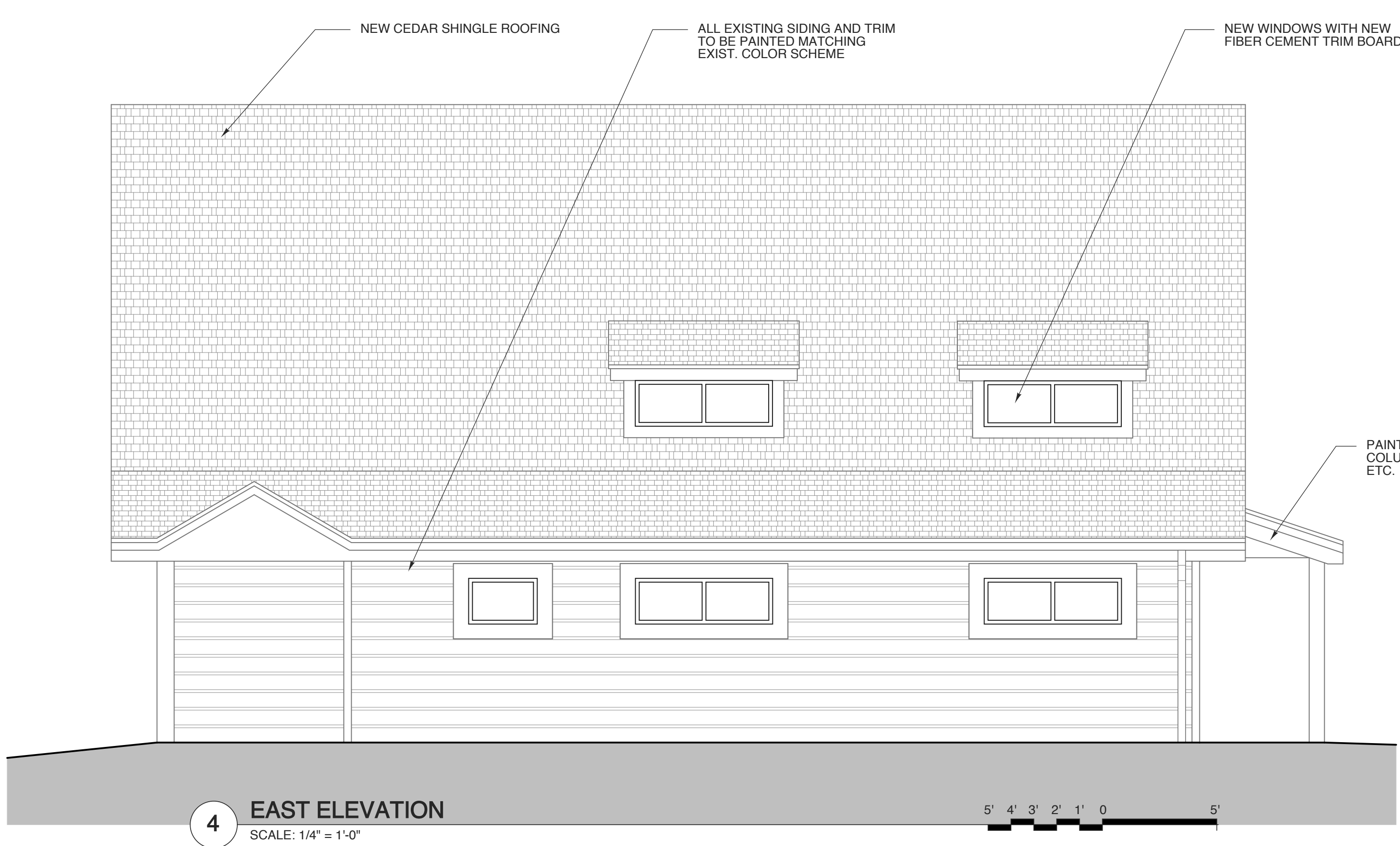
**5 ROOF DETAIL**  
 SCALE: 3/4" = 1'-0"



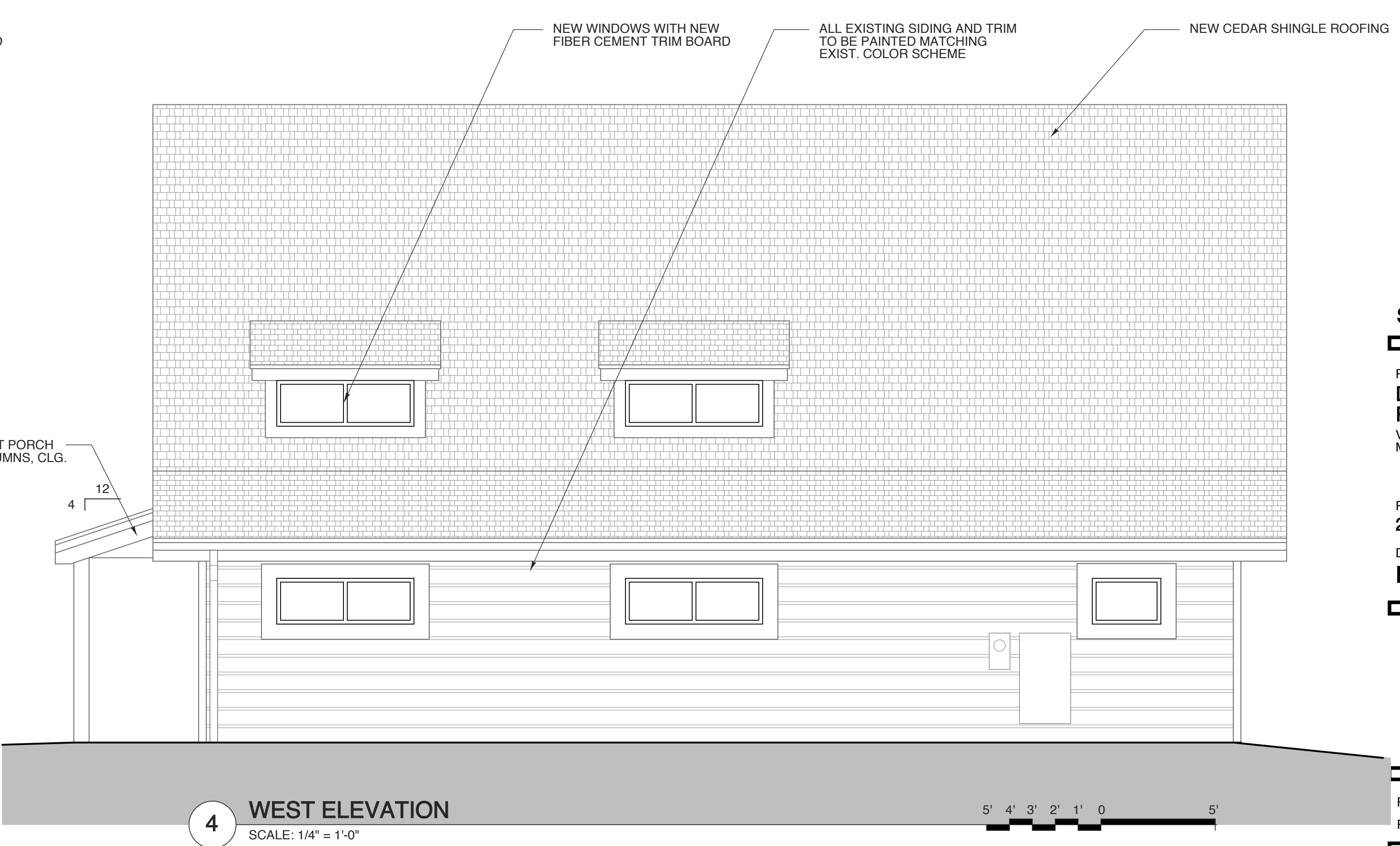
**2 SOUTH ELEVATION**  
 SCALE: 1/4" = 1'-0"



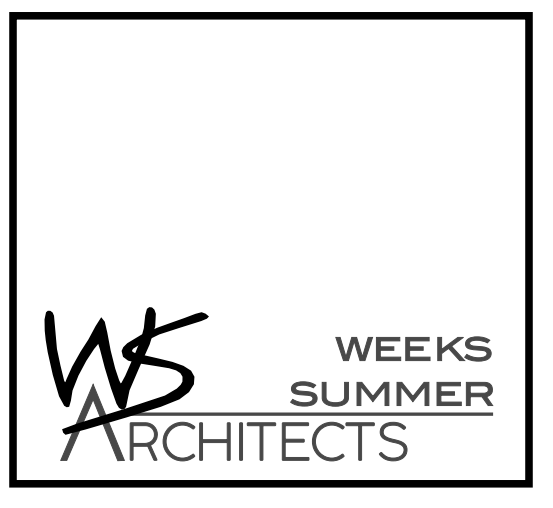
**1 NORTH ELEVATION**  
 SCALE: 1/4" = 1'-0"



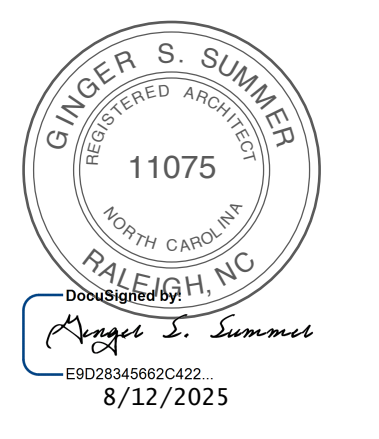
**4 EAST ELEVATION**  
 SCALE: 1/4" = 1'-0"



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



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**SCO # 25-29818-01A**

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
 VISITORS CENTER CIRCLE  
 MANTEO, NORTH CAROLINA

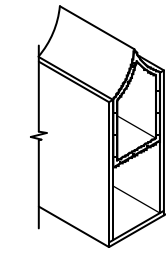
PROJECT NO.  
**2404b**  
 DRAWING TITLE  
**ELEVATIONS**

SHEET **7** OF **10**

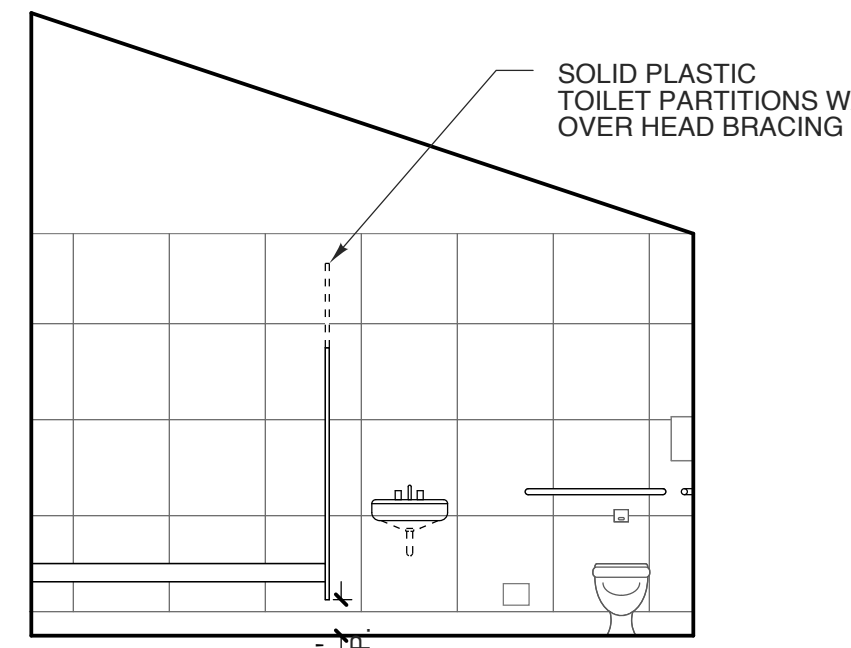
**A2**

PLOT DATE **8/12/25**  
 REVISION **---**

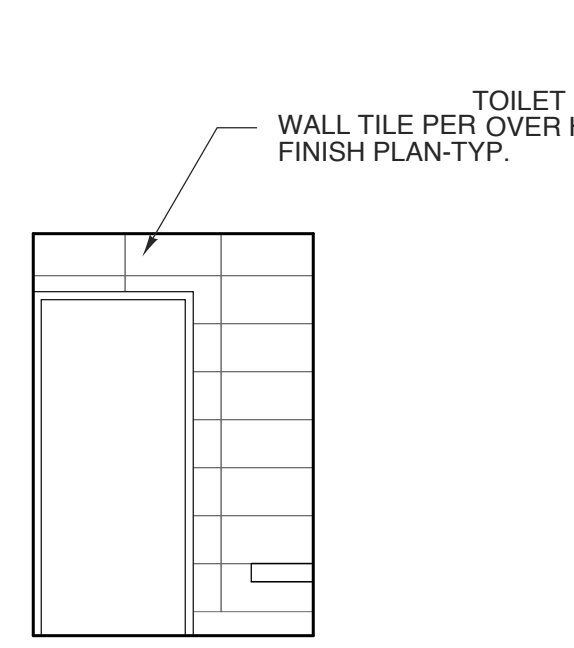
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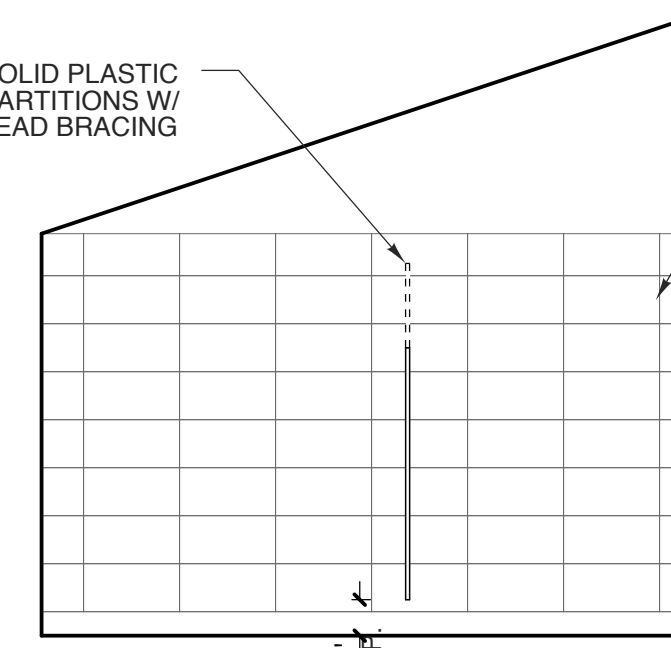
**25 ANTI-GRIP HEADRAIL**  
SCALE: NTS



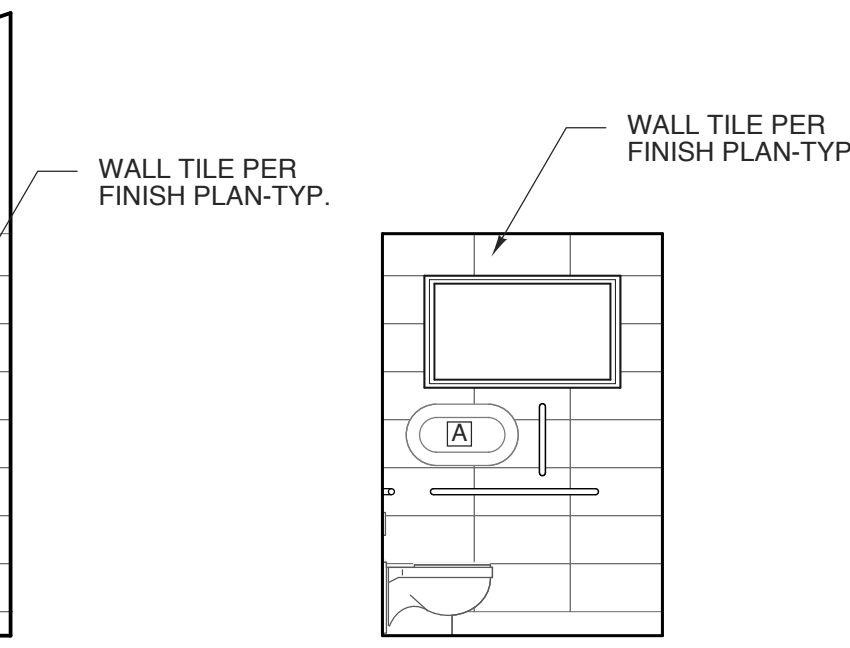
**24 RM. 105 FAMILY**  
SCALE: 1/4" = 1'-0"



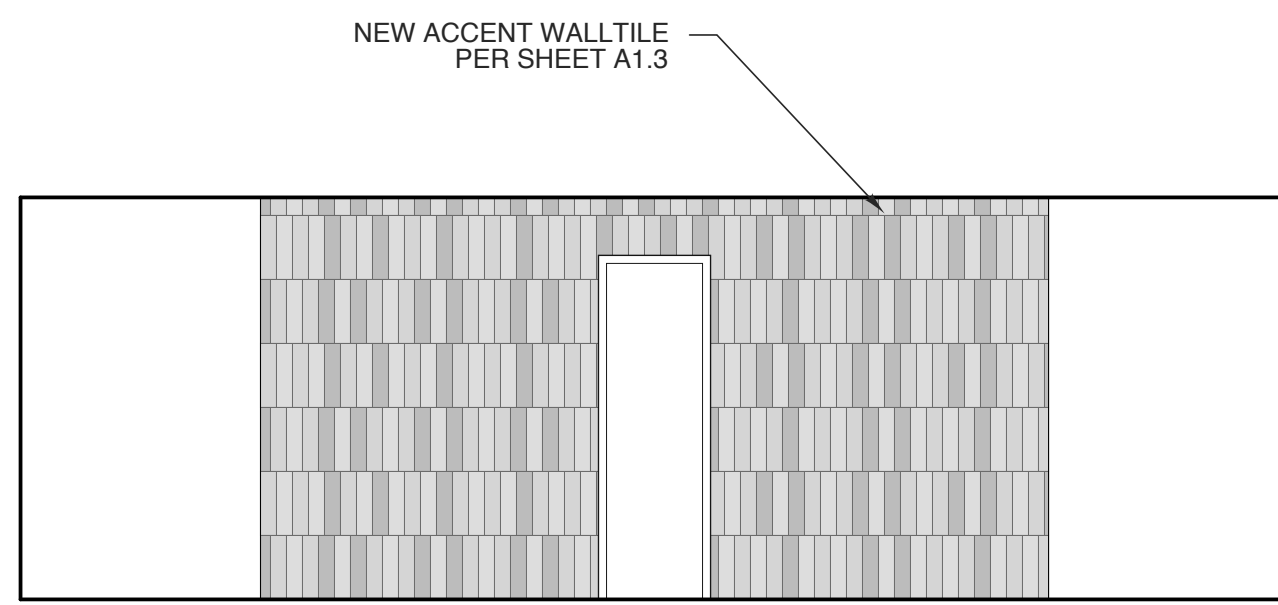
**23 RM. 105 FAMILY**  
SCALE: 1/4" = 1'-0"



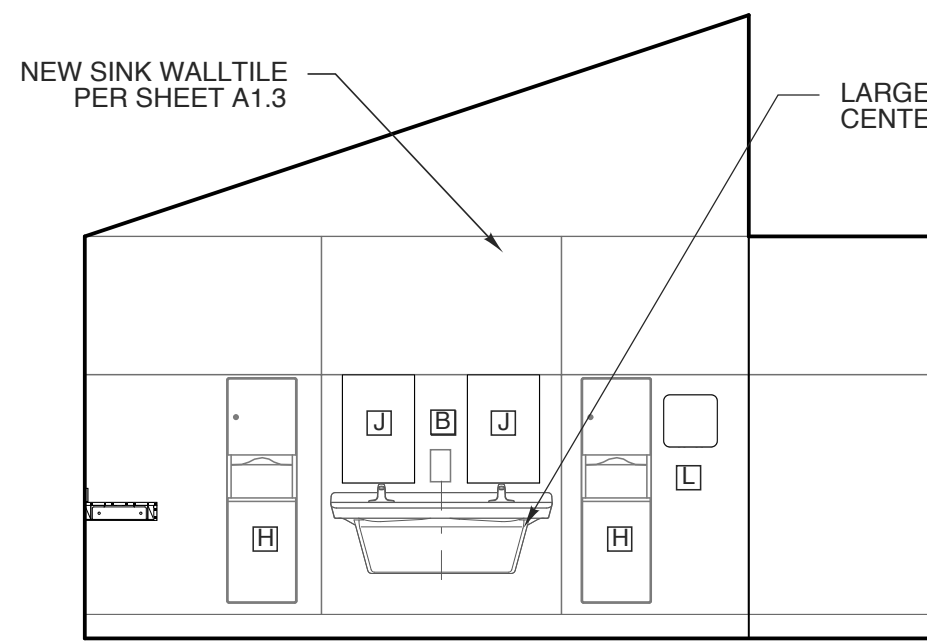
**22 RM. 105 FAMILY**  
SCALE: 1/4" = 1'-0"



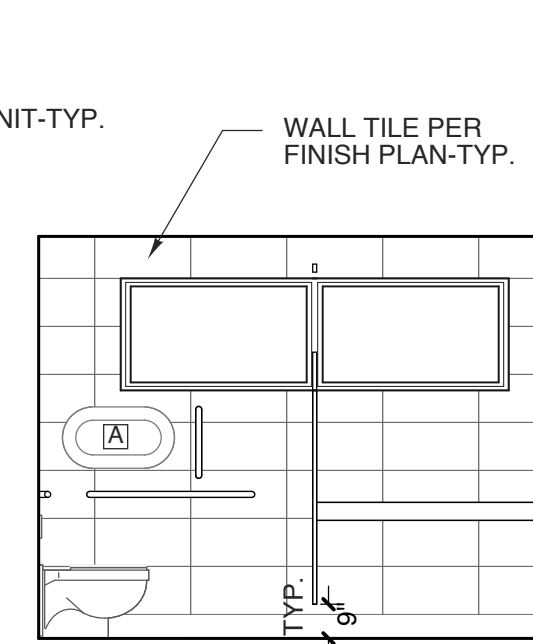
**21 RM. 105 FAMILY**  
SCALE: 1/4" = 1'-0"



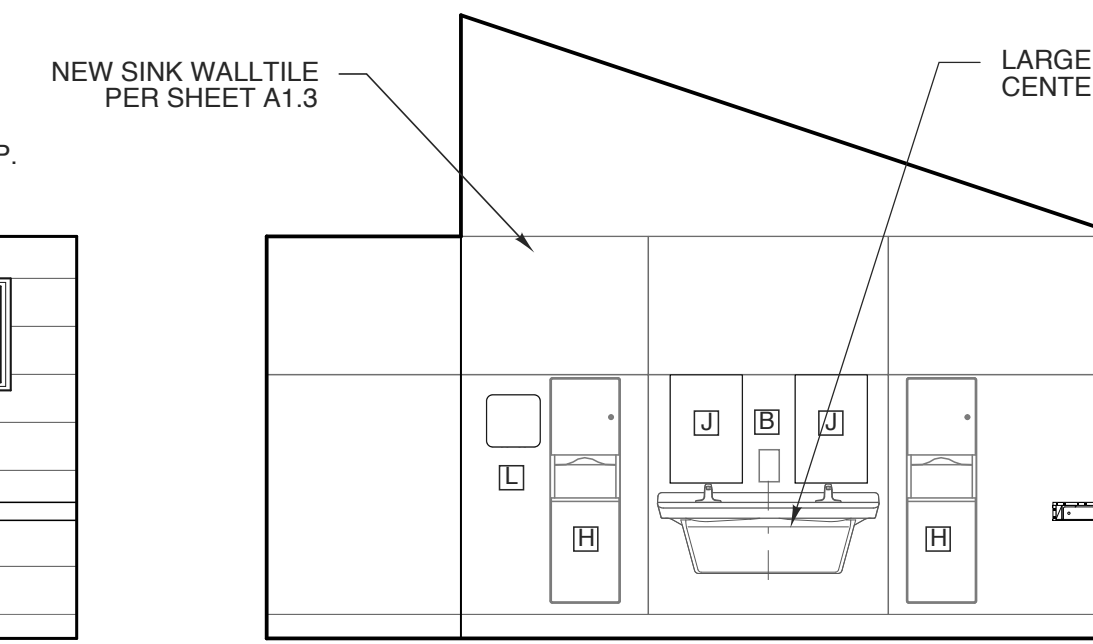
**20 ELEV - PIPE CHASE WALL-TYP. BOTH SIDES**  
SCALE: 1/4" = 1'-0"



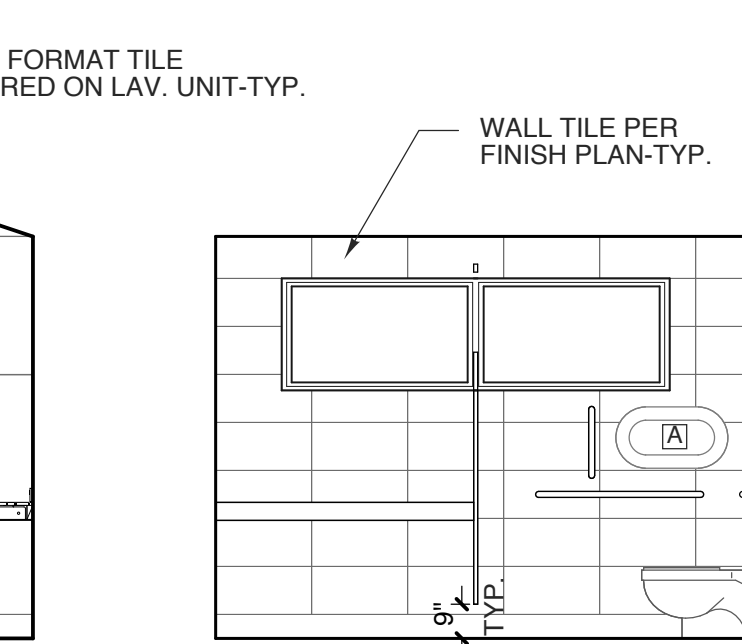
**16 ELEVATION - 104 WOMEN 2**  
SCALE: 1/4" = 1'-0"



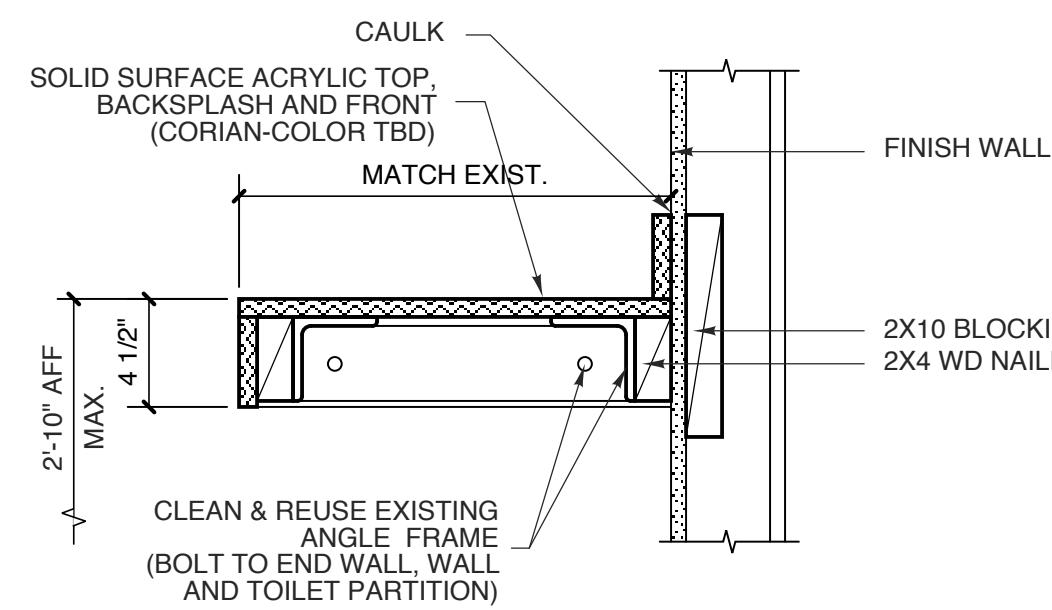
**15 RM. 104 WOMEN 2**  
SCALE: 1/4" = 1'-0"



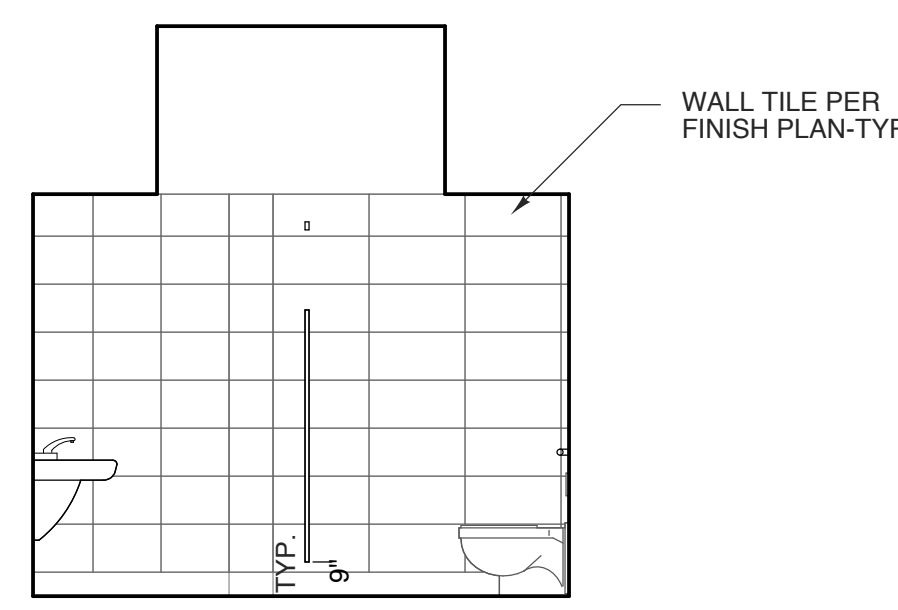
**12 RM 109 MEN 2 - ELEV**  
SCALE: 1/4" = 1'-0"



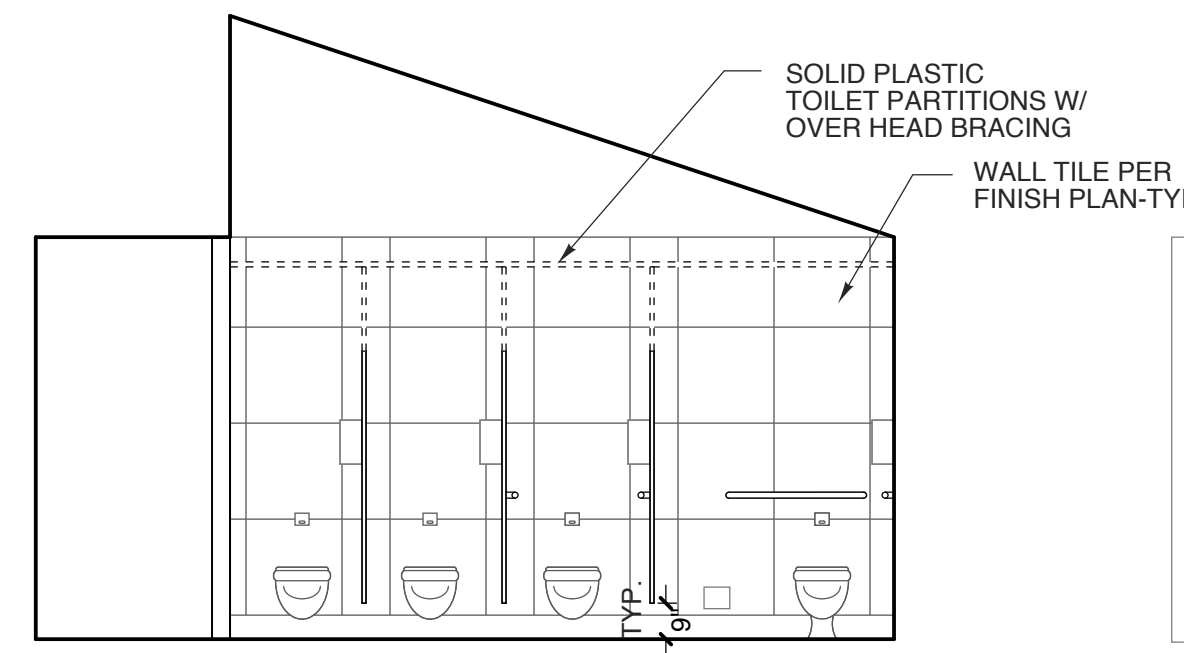
**11 RM. 109 MEN 2**  
SCALE: 1/4" = 1'-0"



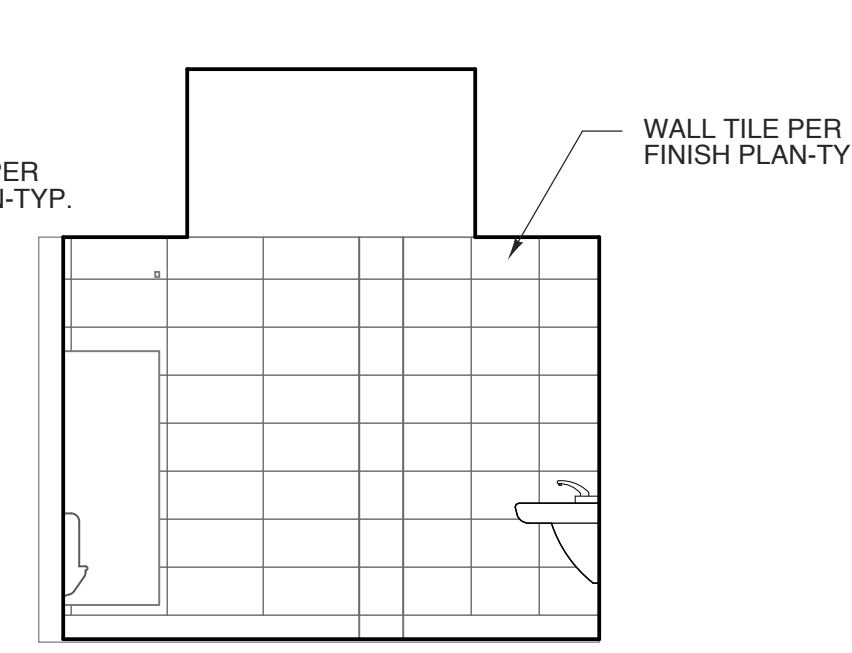
**19 CHANGING TABLE**  
SCALE: 1 1/2" = 1'-0"



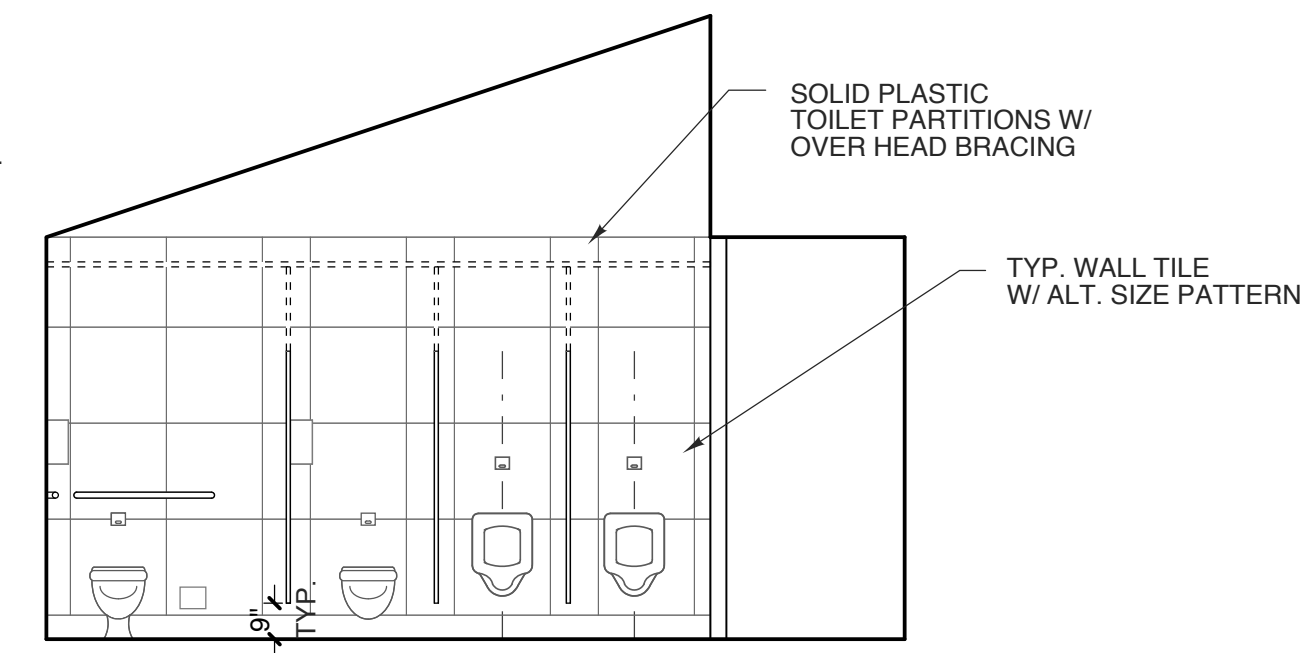
**14 RM. 104 WOMEN 2**  
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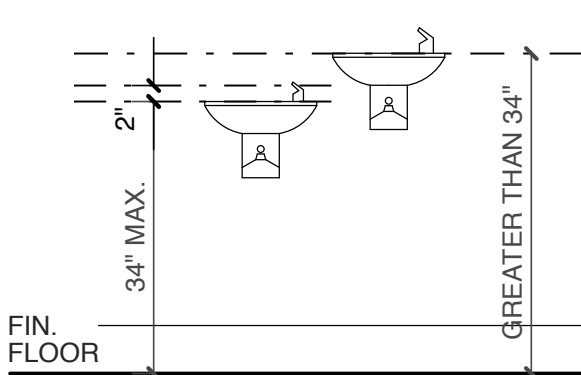
**13 RM 104 WOMEN 2 ELEV**  
SCALE: 1/4" = 1'-0"  
1,929.6758 Sq ft



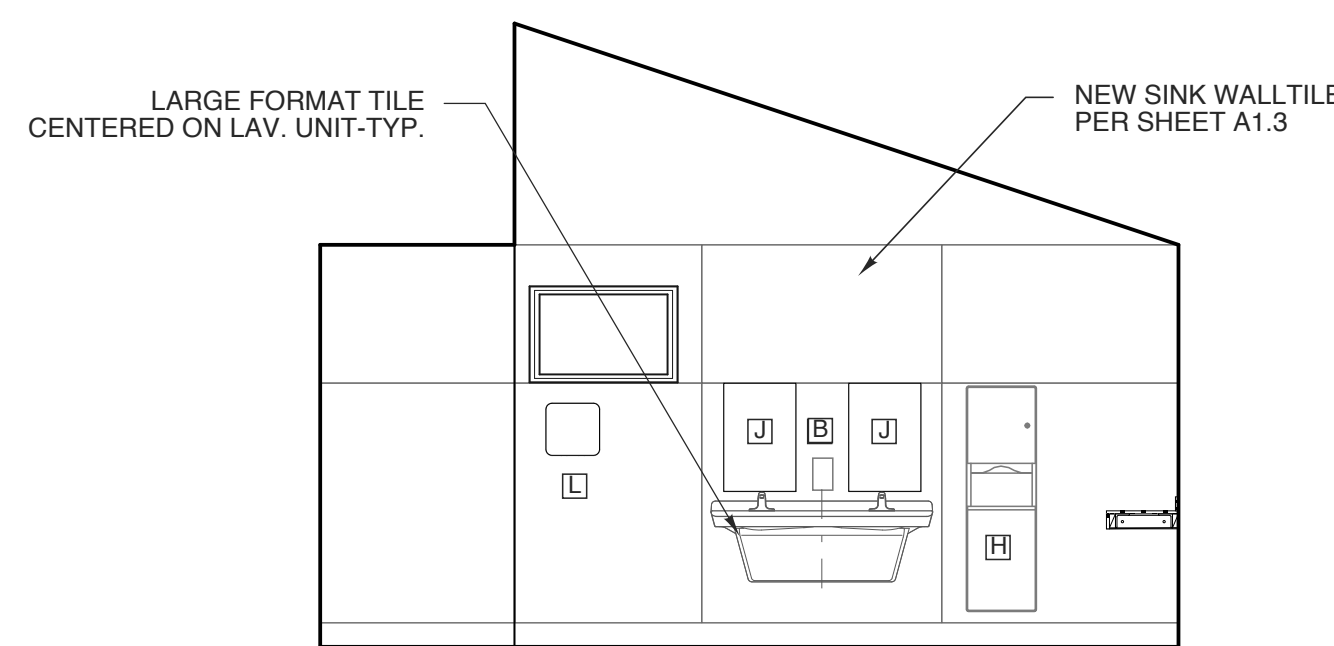
**10 RM. 109 MEN 2**  
SCALE: 1/4" = 1'-0"



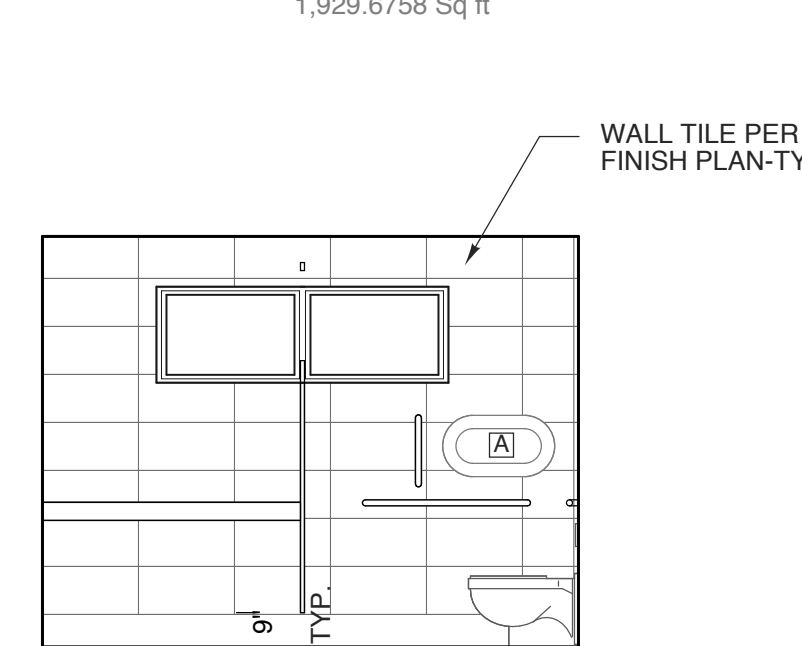
**9 RM 109 MEN ELEV**  
SCALE: 1/4" = 1'-0"



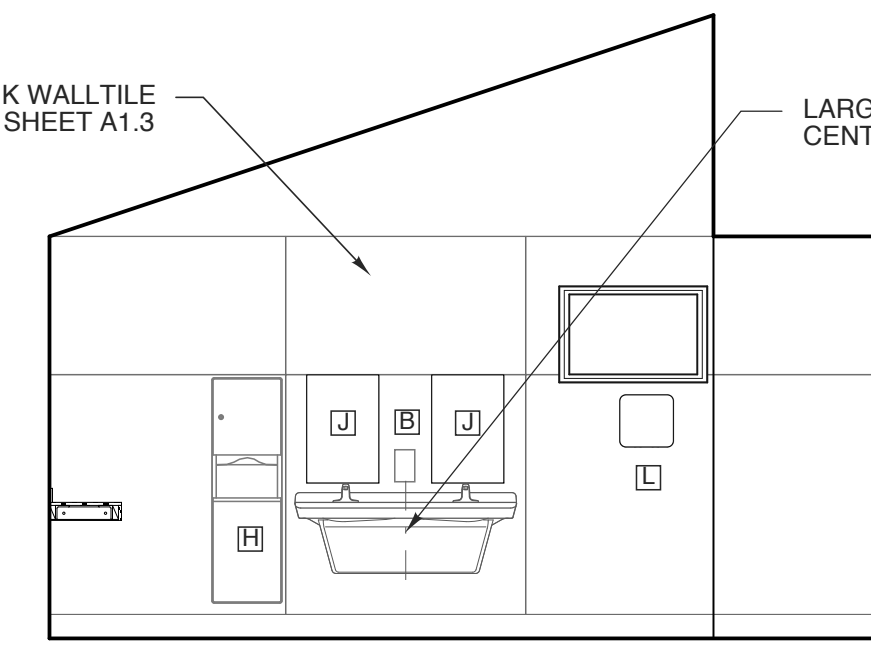
**18 HC DF ELEVATION**  
SCALE: 1/2" = 1'-0"



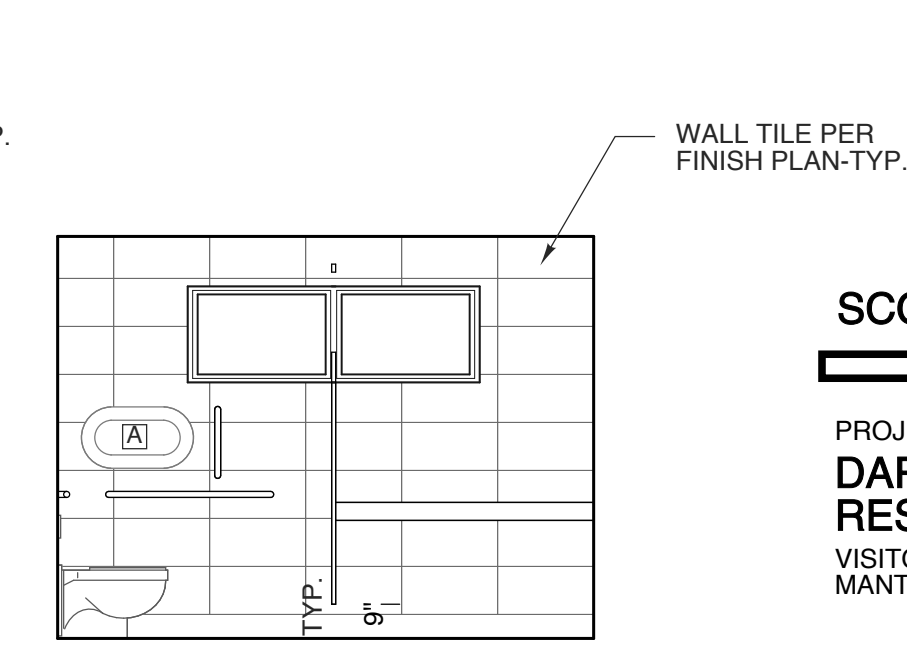
**8 RM 102 WOMEN ELEV**  
SCALE: 1/4" = 1'-0"



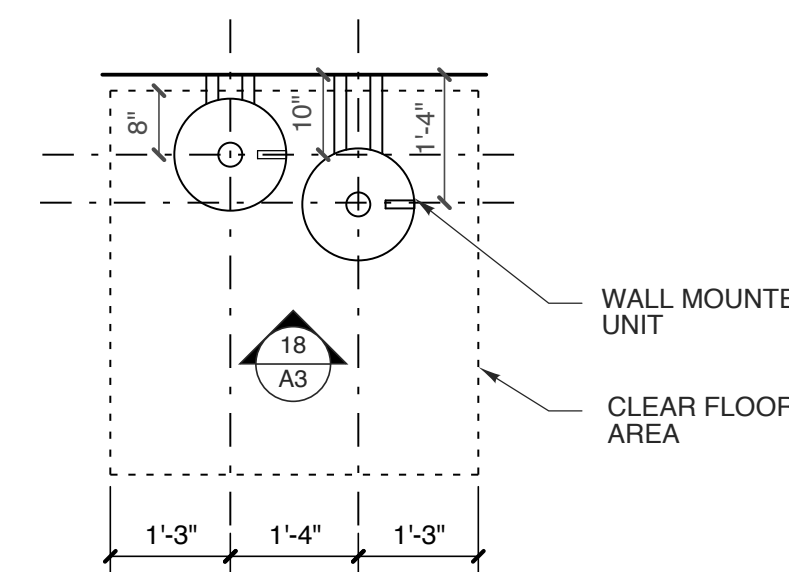
**7 RM. 102 WOMEN**  
SCALE: 1/4" = 1'-0"



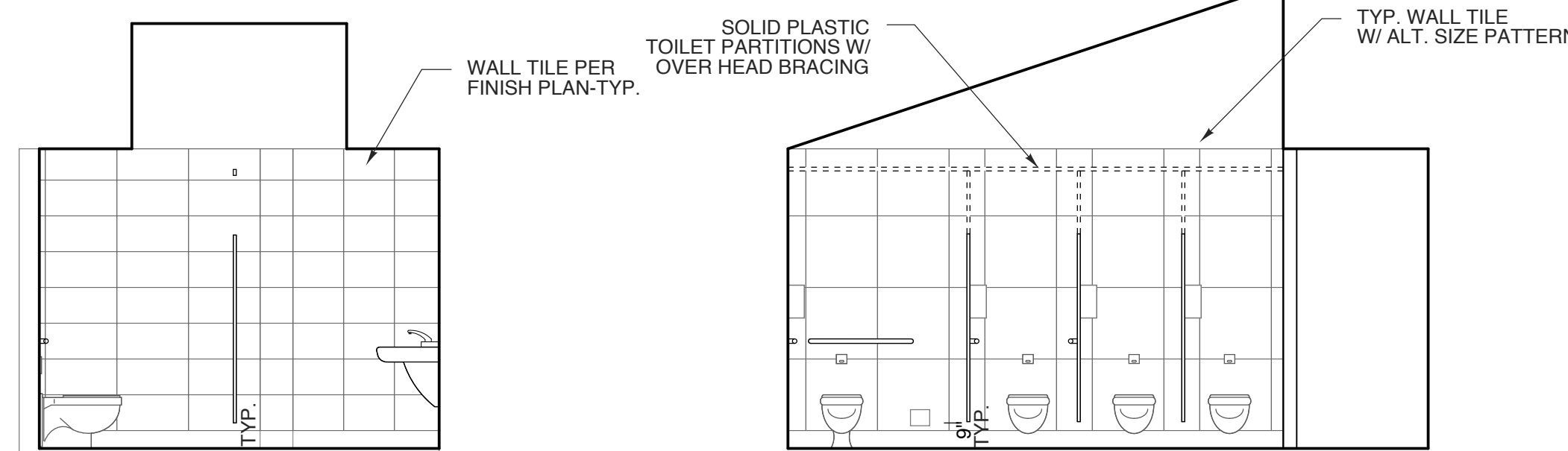
**4 RM 111 MEN - ELEV**  
SCALE: 1/4" = 1'-0"



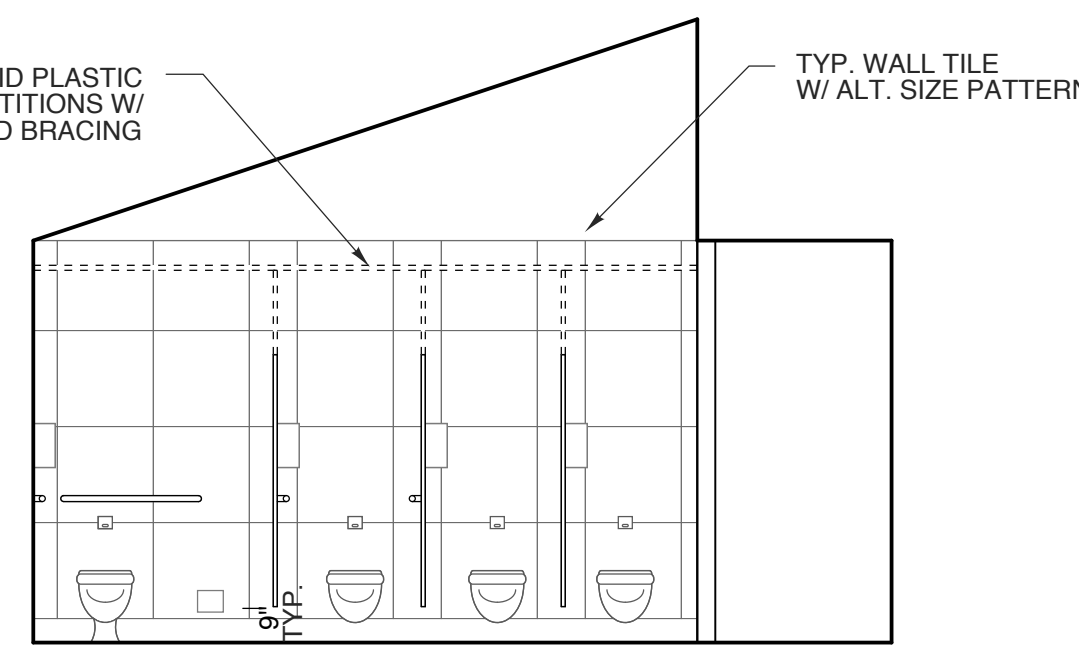
**3 RM. 111 MEN**  
SCALE: 1/4" = 1'-0"



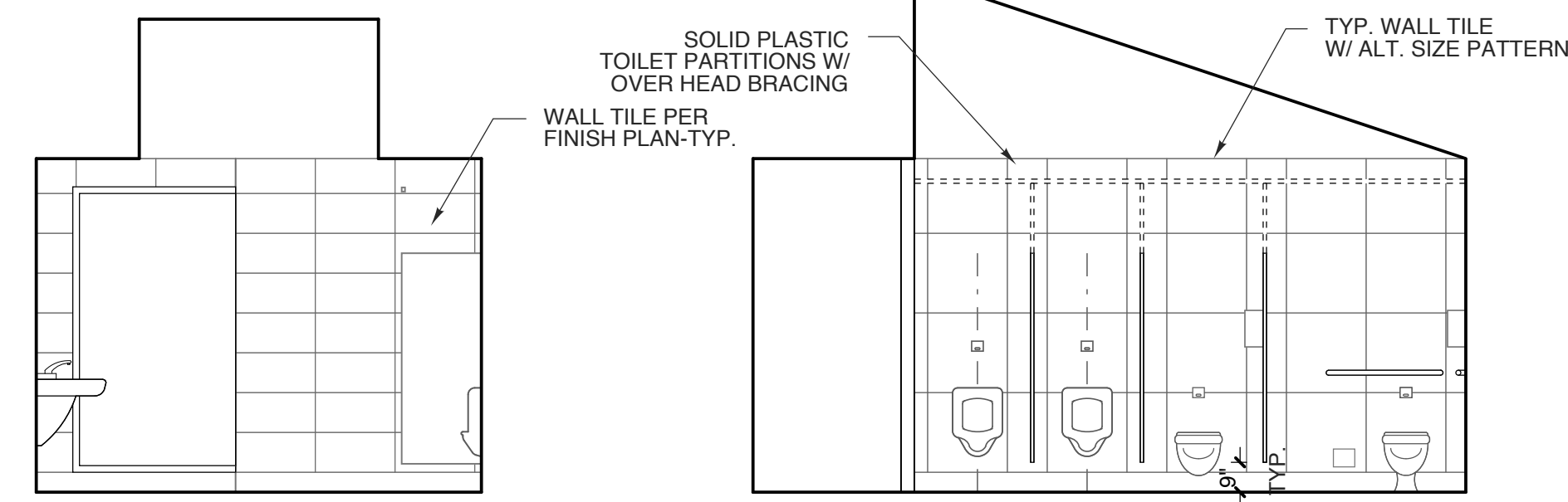
**17 HC DF PLAN**  
SCALE: 1/2" = 1'-0"



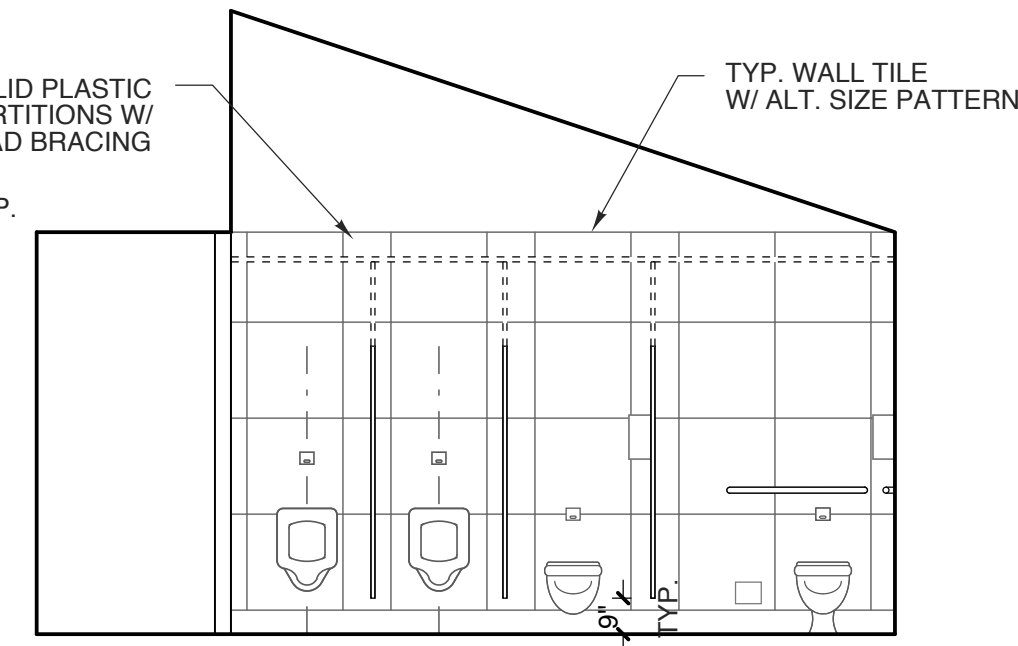
**6 RM. 102 WOMEN**  
SCALE: 1/4" = 1'-0"



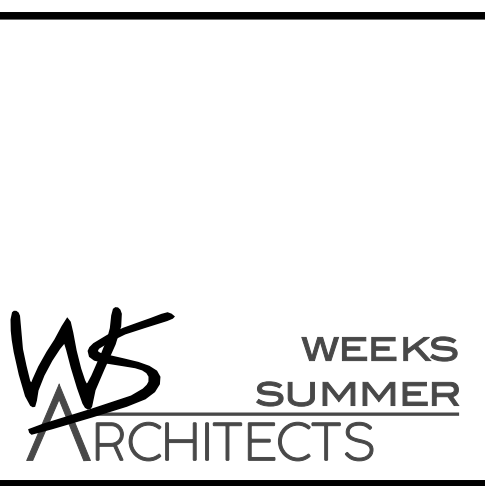
**5 RM 102 WOMEN ELEV**  
SCALE: 1/4" = 1'-0"



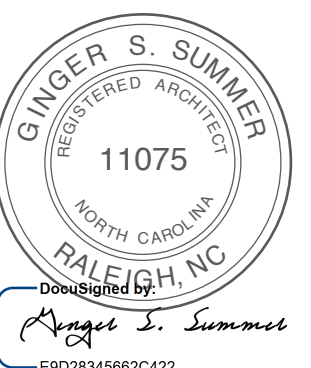
**2 RM. 111 MEN**  
SCALE: 1/4" = 1'-0"



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



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Raleigh, North Carolina 27603  
919.773.9797  
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**BID SET**  
8.12.25

SCO # 25-29818-01A

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**

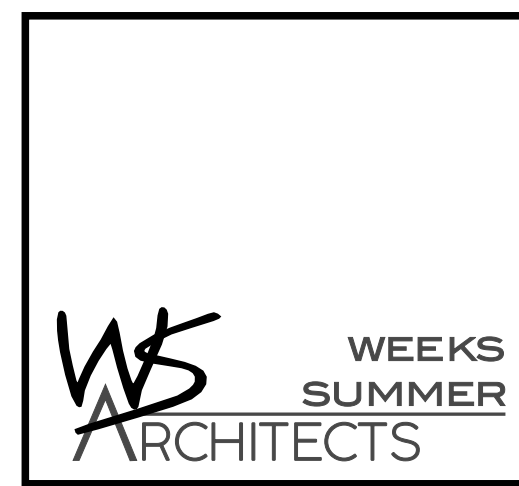
DRAWING TITLE  
**INT. ELEVATIONS**

SHEET 8 OF 10

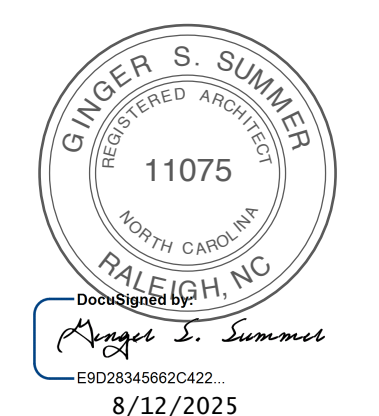
**A3.1**

PLOT DATE 8/12/25  
REVISION

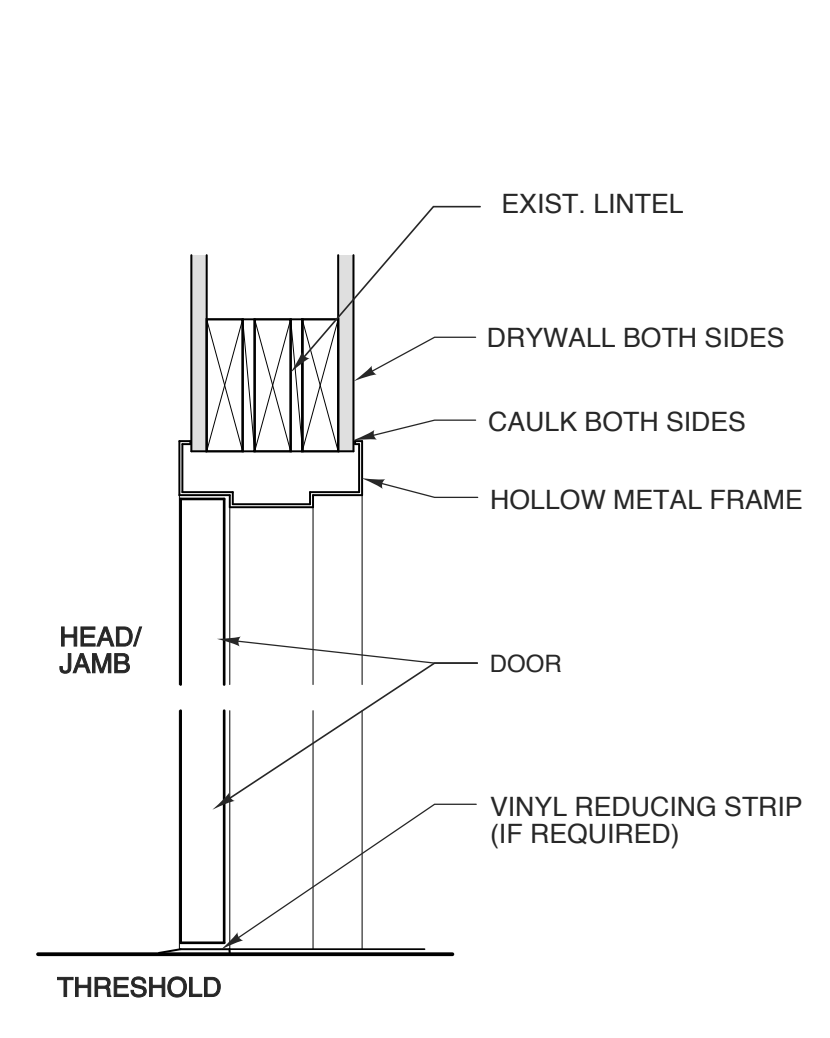
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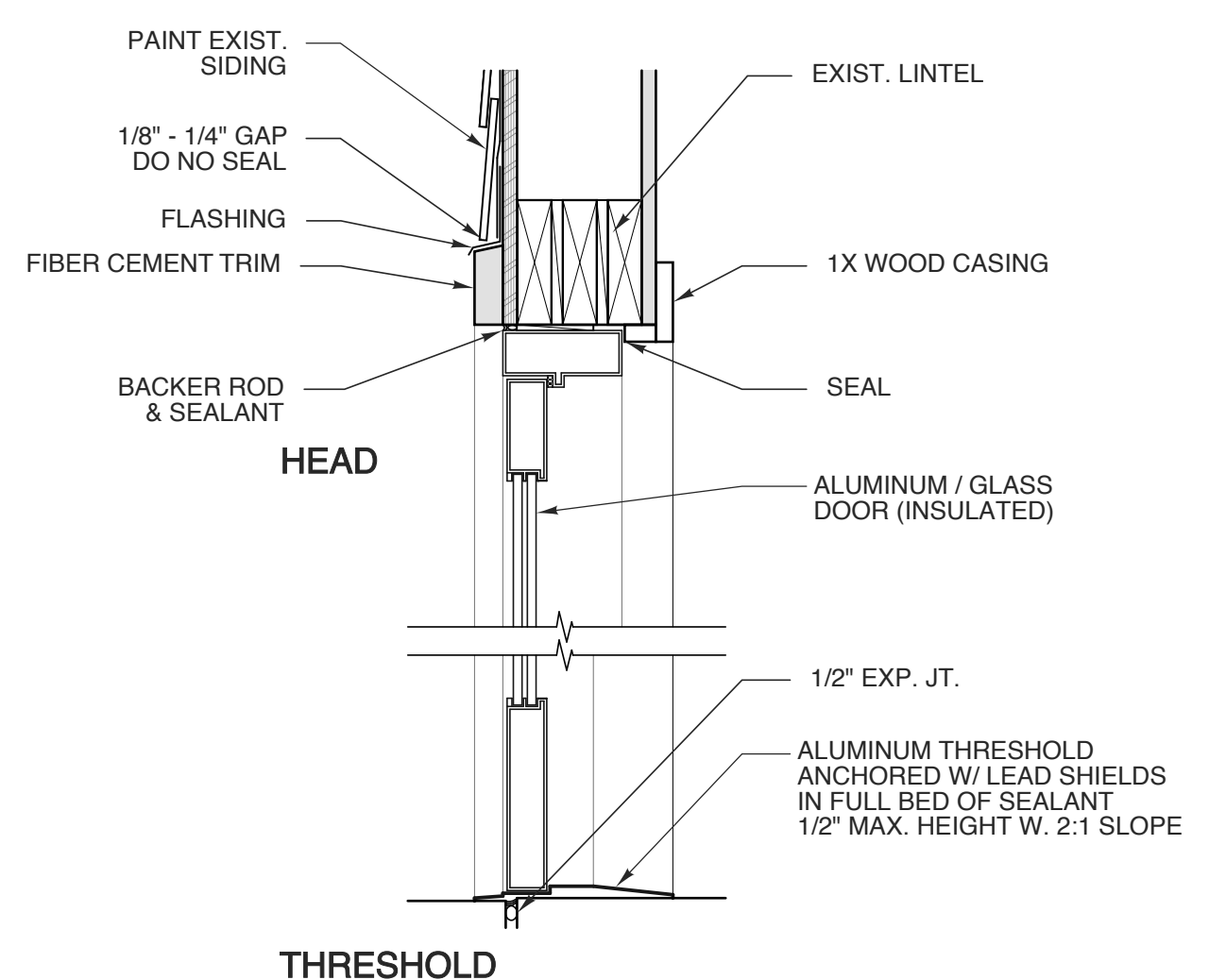
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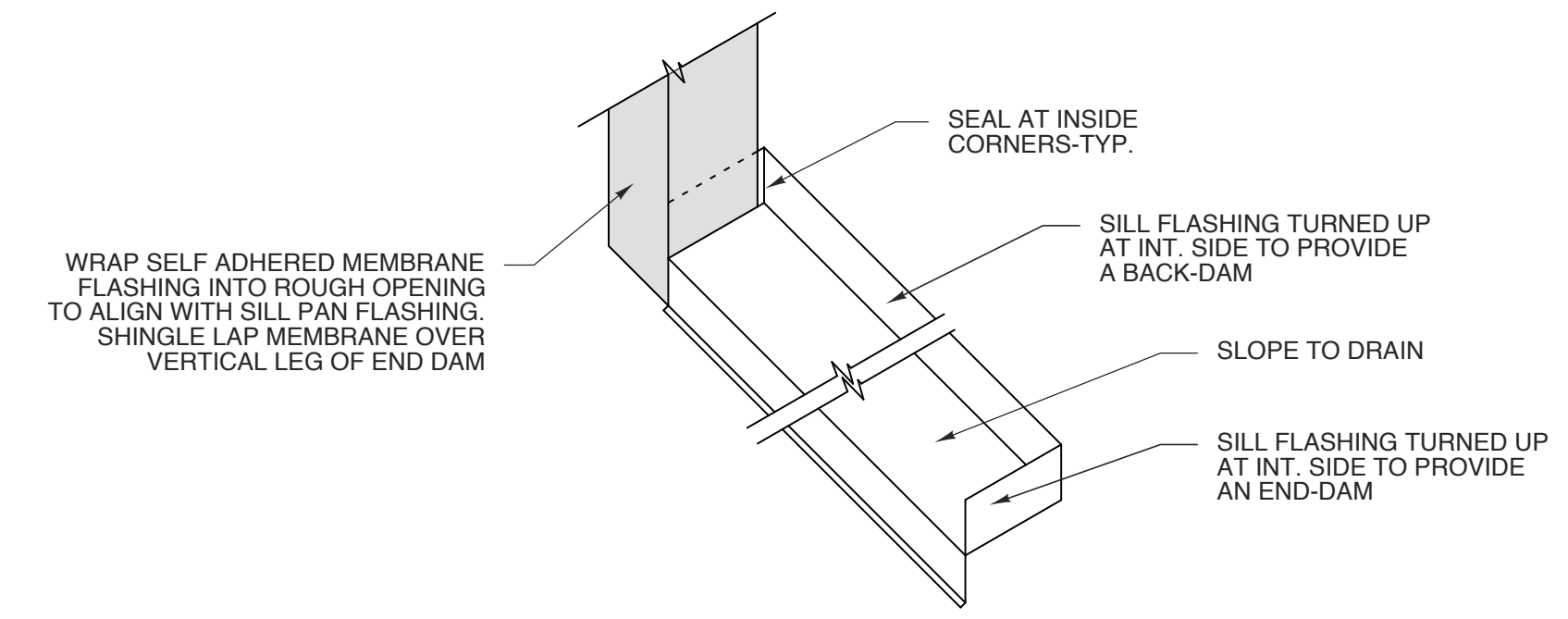
**BID SET  
8.12.25**



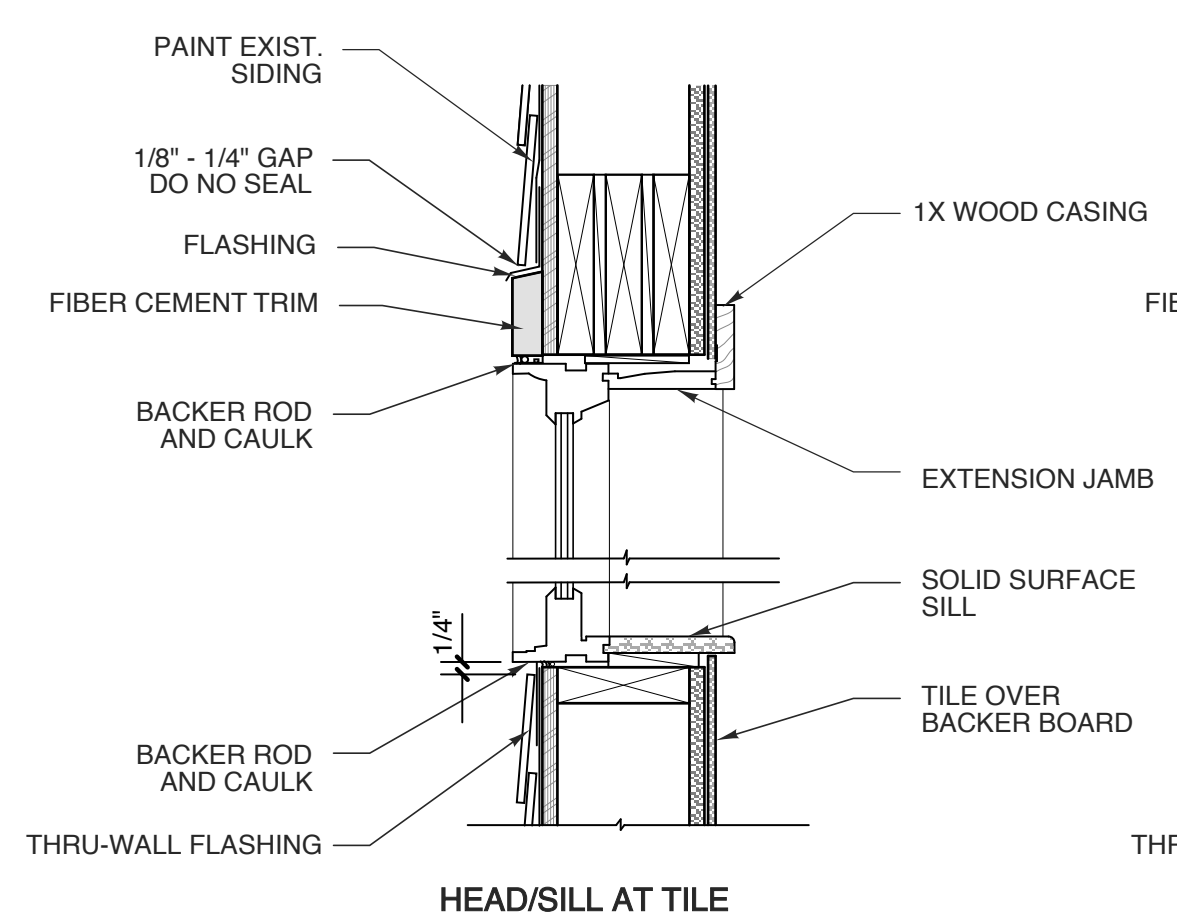
**5 INT. HM FRAME**  
SCALE: 1-1/2" = 1'-0"



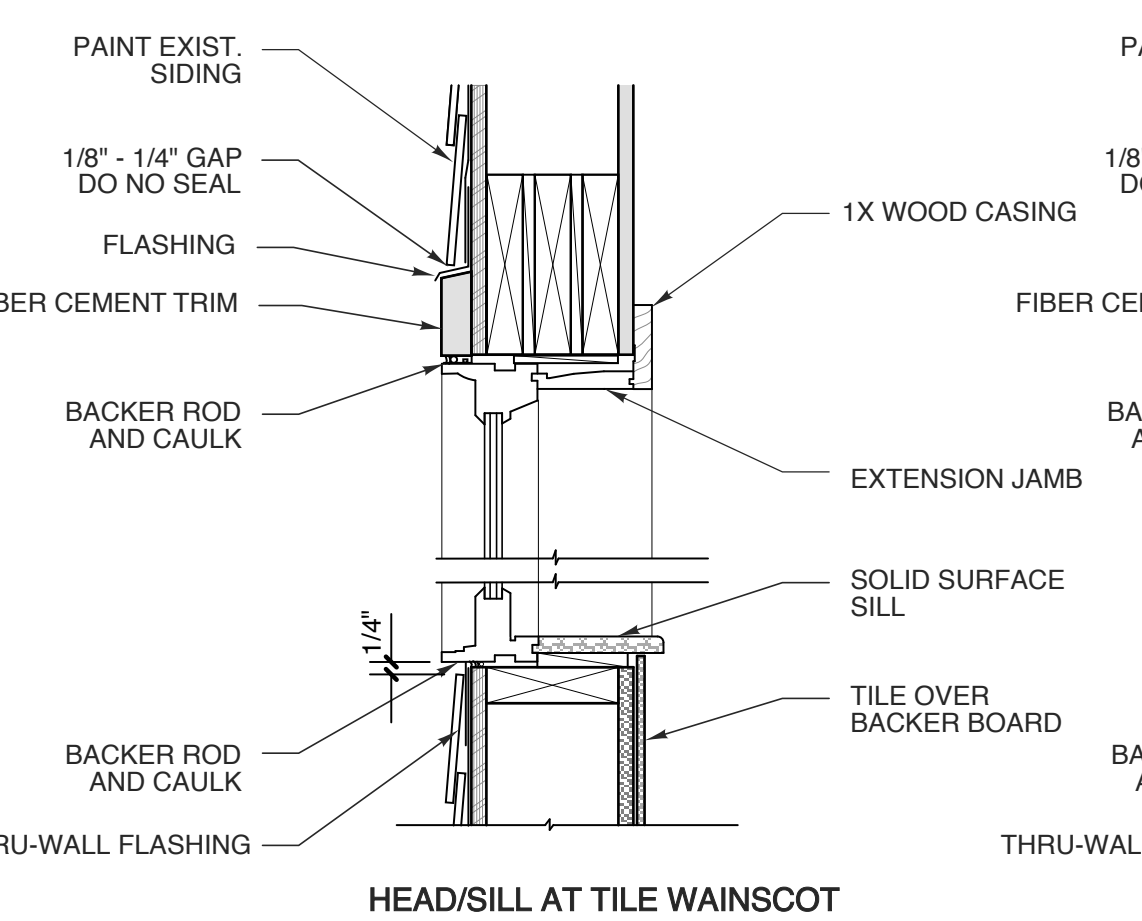
**4 STOREFRONT DOOR**  
SCALE: 1-1/2" = 1'-0"



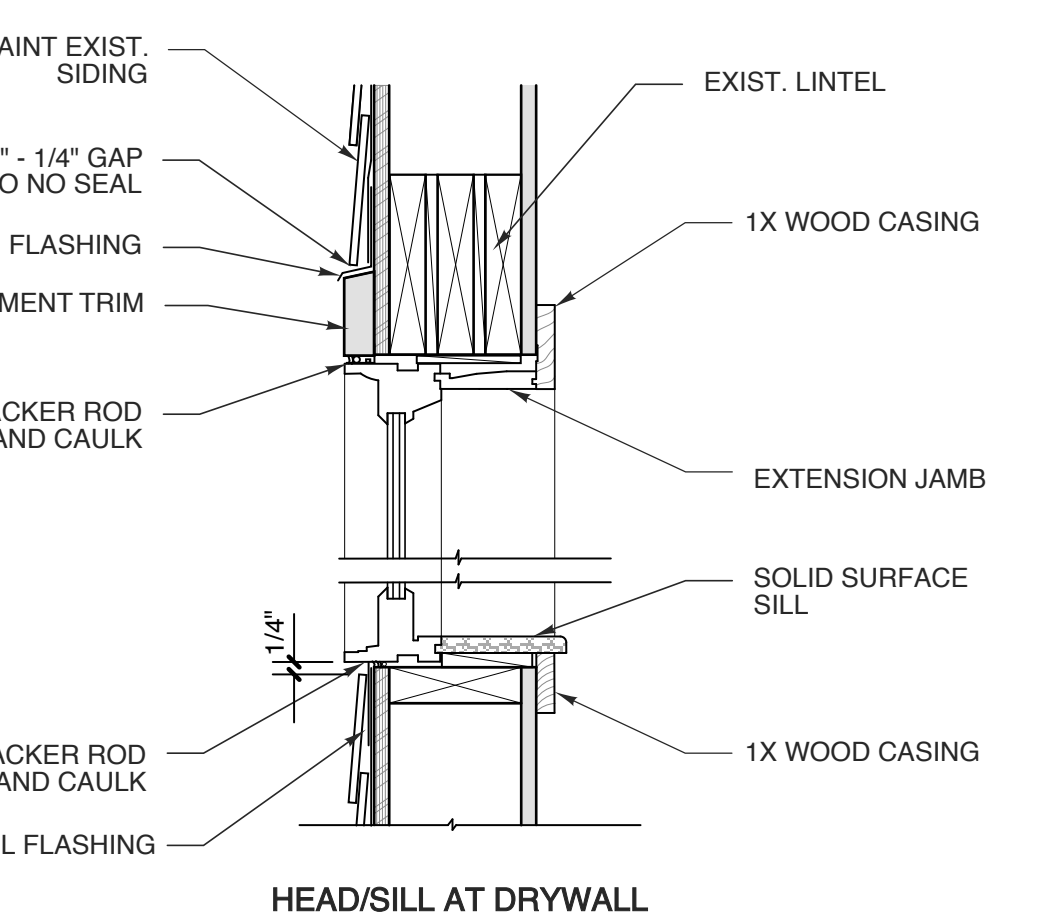
**9 TYP. SILL FLASHING**  
SCALE: NTS



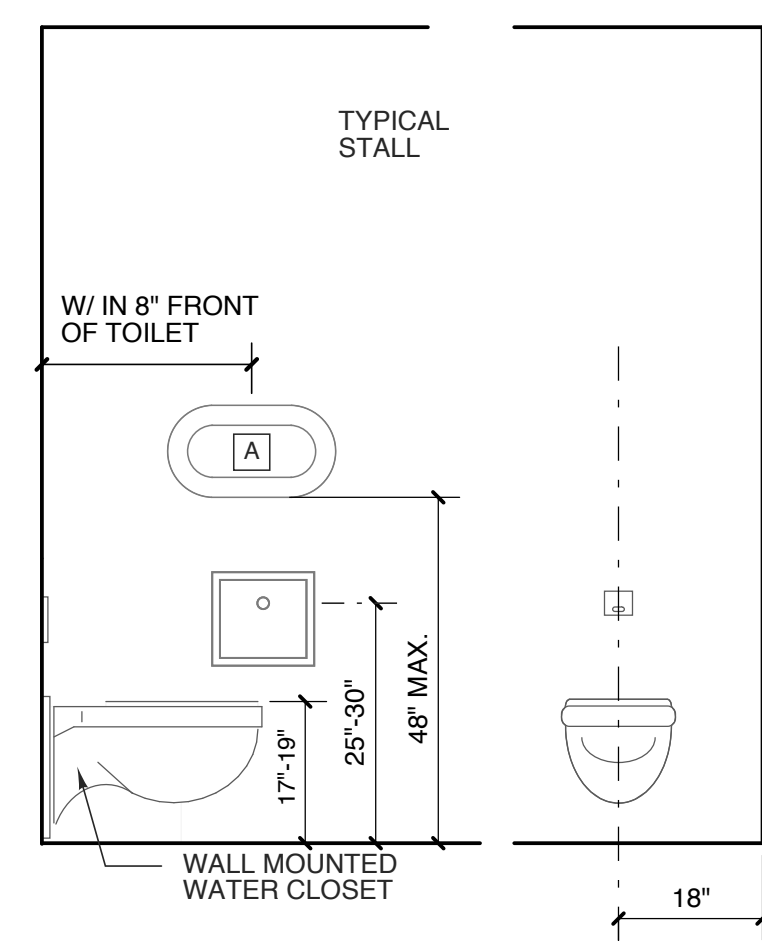
**8 WINDOW DETAILS**  
SCALE: 1-1/2" = 1'-0"



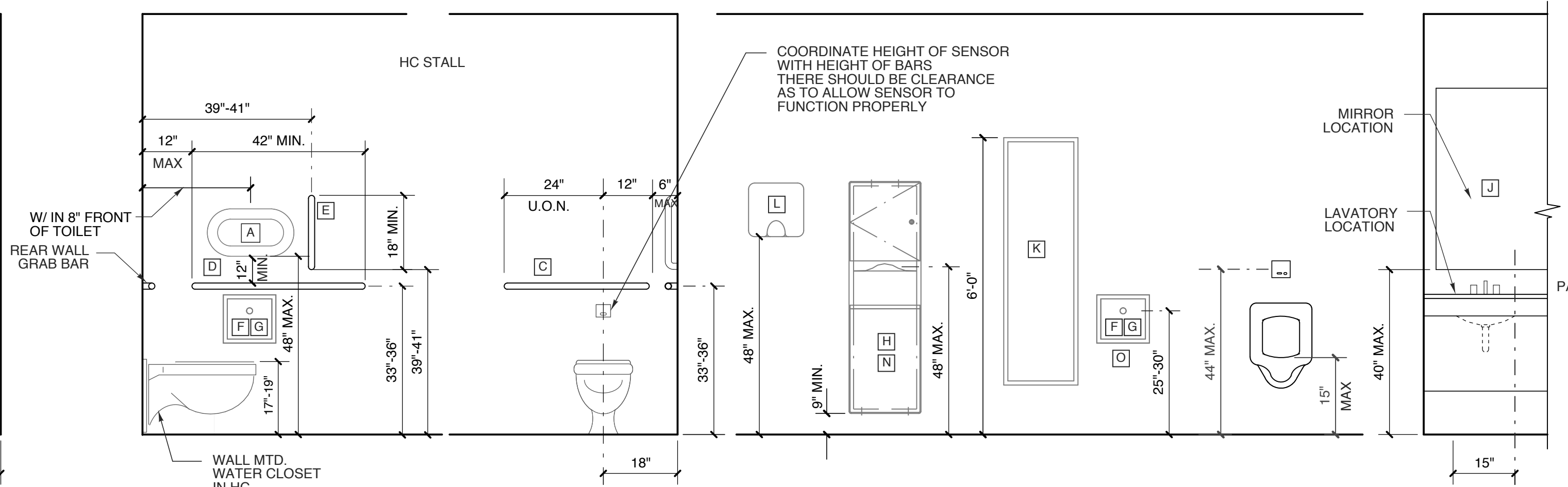
**7 WINDOW DETAILS**  
SCALE: 1-1/2" = 1'-0"



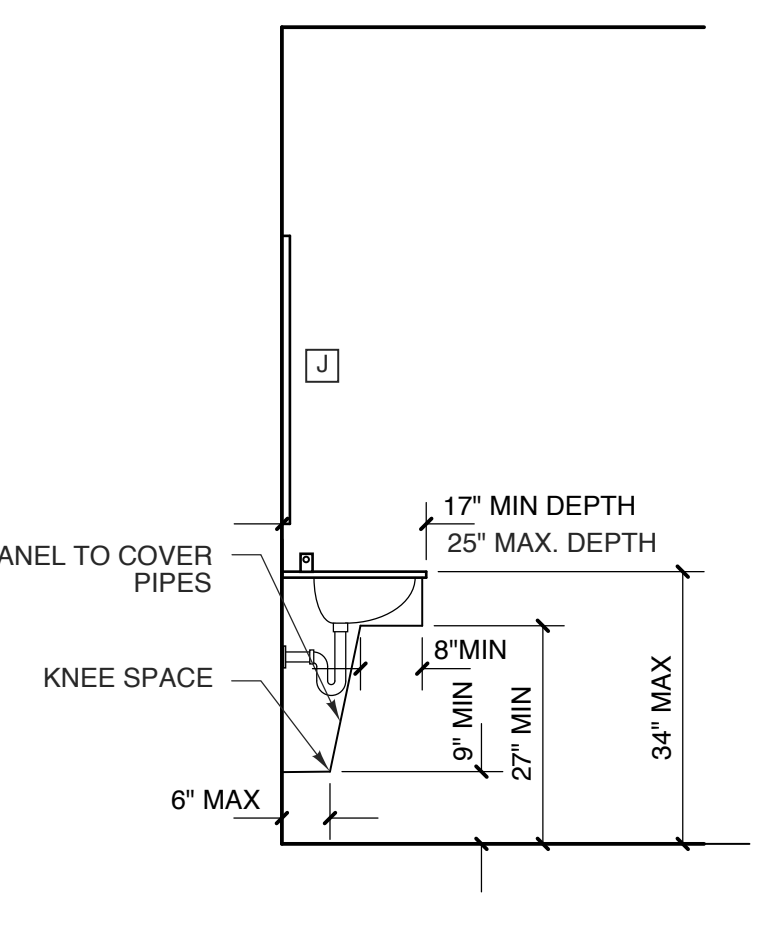
**6 WINDOW DETAILS**  
SCALE: 1-1/2" = 1'-0"



**3 TYPICAL HEIGHTS**



**2 TYPICAL HEIGHTS**



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

**SCO # 25-29818-01A**

PROJECT TITLE  
**DARE COUNTY  
REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

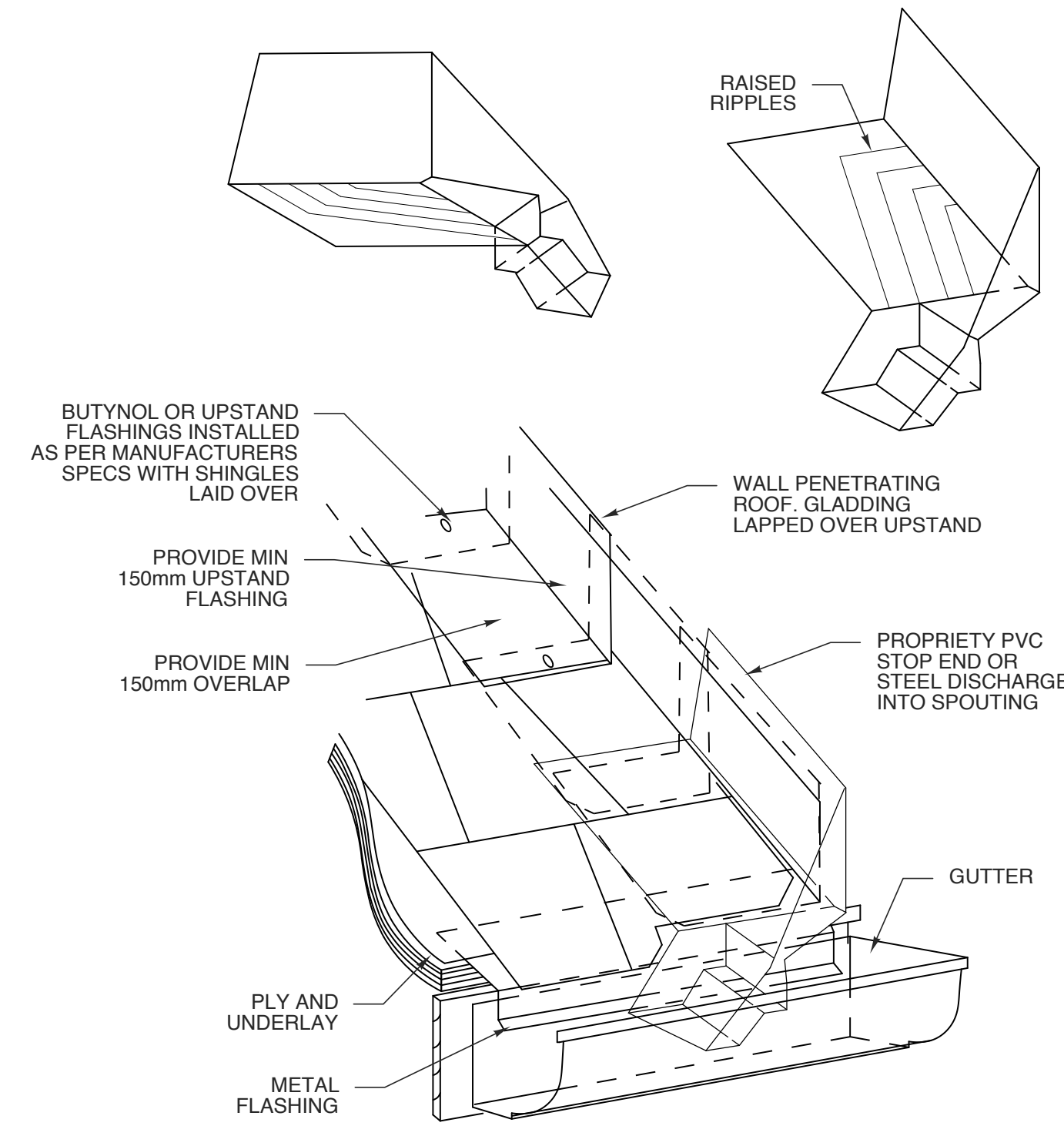
PROJECT NO.  
**2404b**  
DRAWING TITLE  
**DETAILS**

SHEET **9** OF **10**

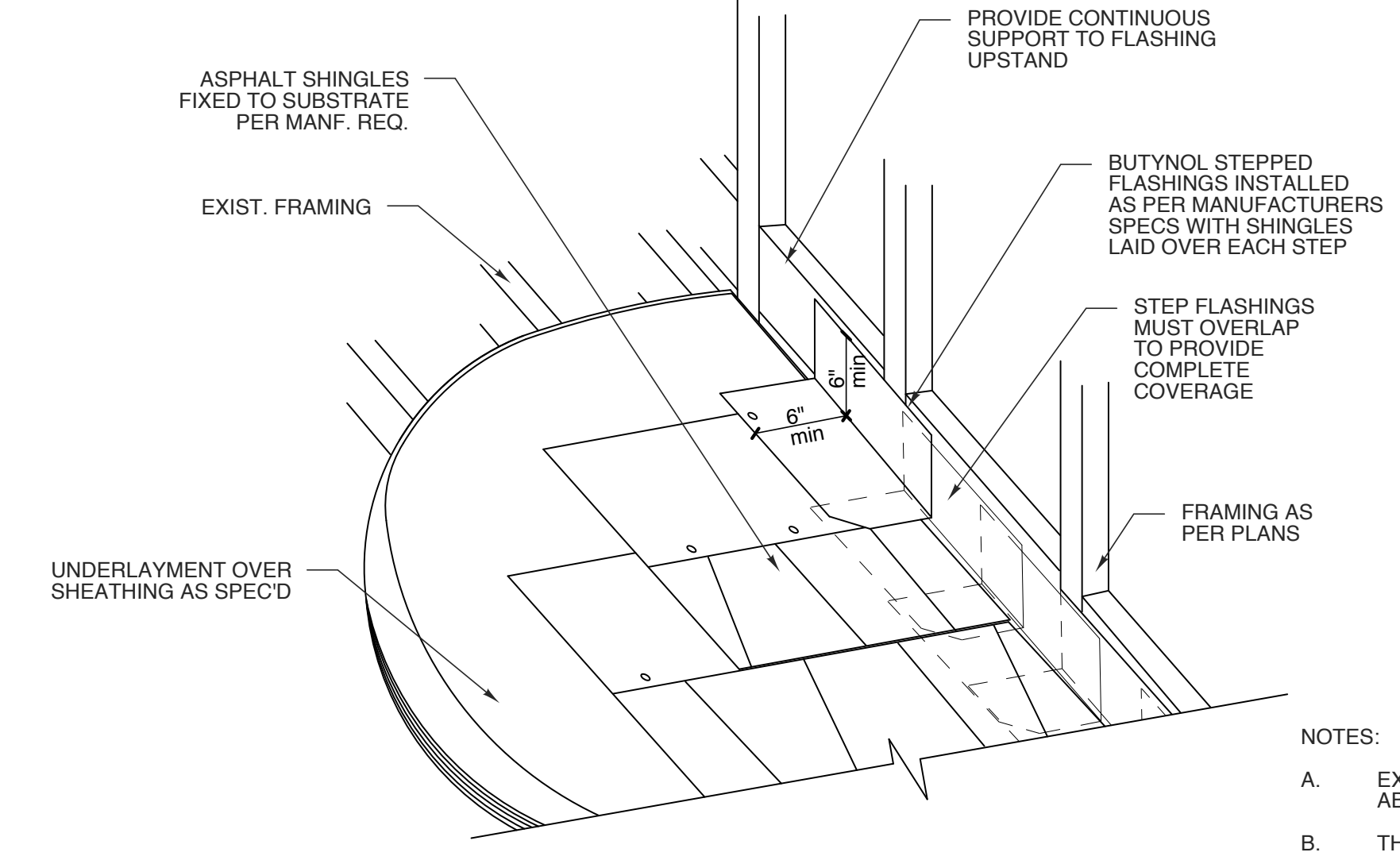
**A3.2**

PLOT DATE **8/12/25**  
REVISION **---**

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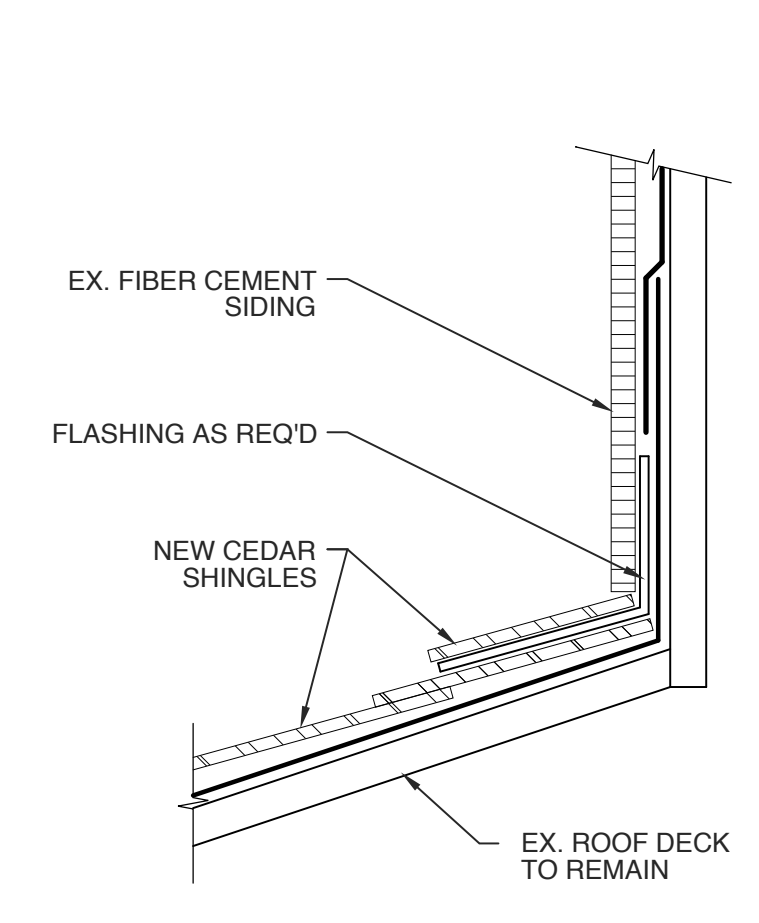


**4 GUTTER WALL JUNCTION**  
SCALE: N.T.S.

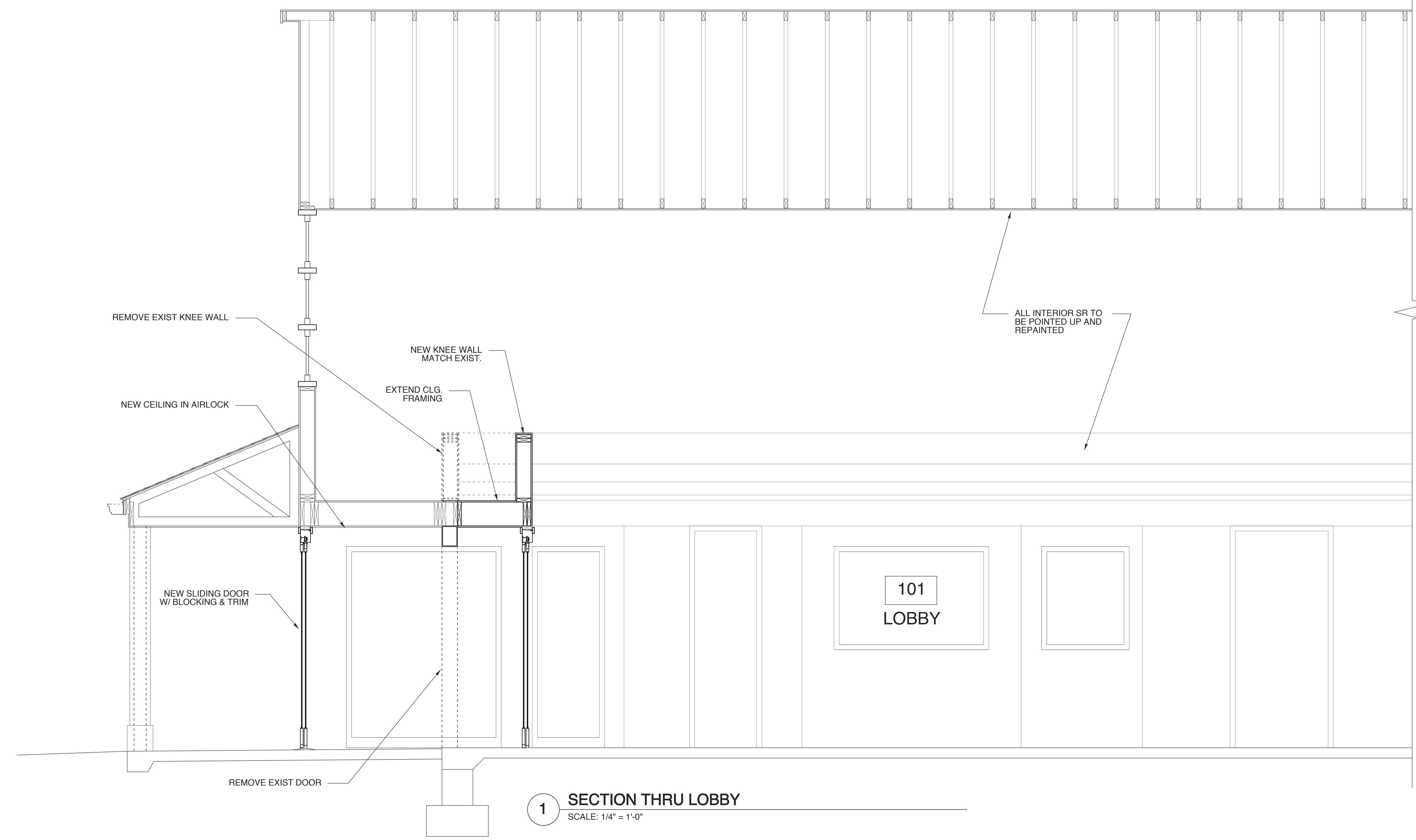


**3 STEP FLASHING DETAIL**  
SCALE: N.T.S.

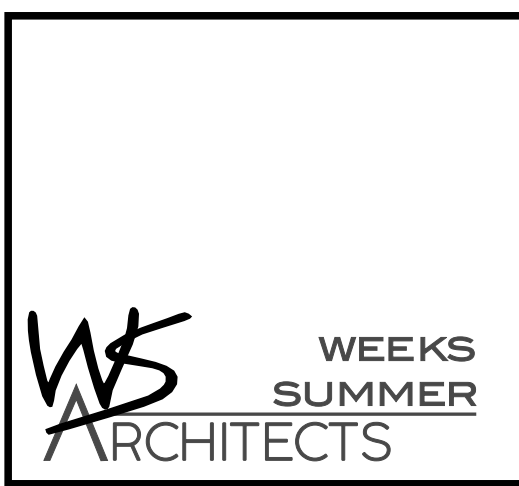
- NOTES:
- A. EXTEND UNDERLAYMENT ON THE WALL SHEATHING ABOVE THE HIGHEST EXPECTED LEVEL OF SNOW AND ICE
  - B. THE METAL FLASHING IS INSTALLED OVER THE UNDERLAYMENT
  - C. INSTALL UNDERLAYMENT TO FORM WATER-SHEDDING LAPS



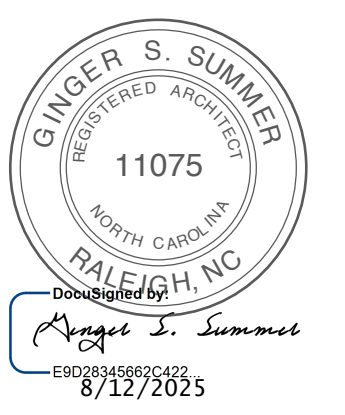
**2 ROOF TO WALL DETAIL**  
NOT TO SCALE



**1 SECTION THRU LOBBY**  
SCALE: 1/4" = 1'-0"



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**BID SET**  
8.12.25

**SCO # 25-29818-01A**

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**  
DRAWING TITLE  
**SECTION & DETAILS**

SHEET 10 OF 10

**A4**

PLOT DATE 8/12/25  
REVISION ...

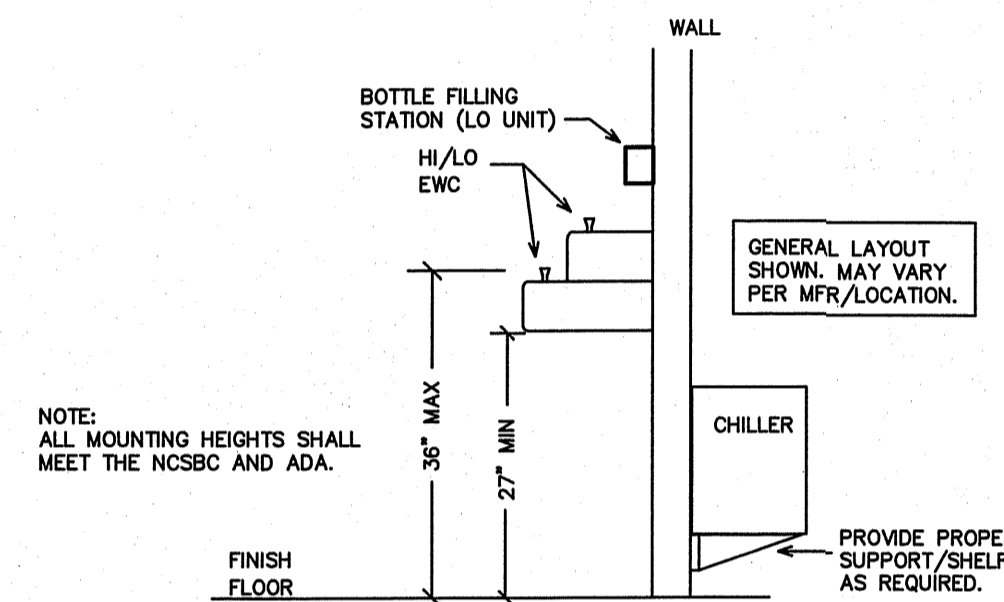
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GENERAL NOTES - PLUMBING

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. PROVIDE/VERIFY HW TO NEW MOP SINK AT 120 DEGREES F. PROVIDE/VERIFY HW TO NEW LAVATORIES 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 A PROPER WORKING CONDITION. REPLACE/PROVIDE ANY ITEMS IF/AS REQUIRED FOR PROPER EHW/HW CIRC. SYSTEM. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE (TMV) FOR EACH LAVATORY FOR 110 DEG. HW (ONLY) TO FAUCET. TMVS MAY BE INTEGRATED WITH FIXTURE/FAUCET AND/OR LOCATE TMVS IN A MAINTENANCE (ONLY) ACCESSIBLE AREA BELOW LAV, ABOVE CEILING, OR AS REQUIRED. PROVIDE LOCKABLE ACCESS DOOR IF REQUIRED.

SYMBOL LEGEND - PLUMBING

SYMBOL	DESCRIPTION (U.O.N.)
—————	WASTE PIPING (W)
-----	VENT PIPING (V)
-----	COLD WATER PIPING (CW)
-----	HOT WATER PIPING (HW)
⌵	CHECK VALVE
⊗	BALANCING VALVE
⊙	CIRCULATION PUMP
⊗	SHUT-OFF VALVE
⊕	DIELECTRIC UNION
○ COFF	CLEANOUT FINISH FLOOR
⊥ WCO/HCO	WALL/HORIZONTAL CLEANOUT
⊕ COFG	CLEANOUT FINISH GRADE
⊥	VENT THRU ROOF (VTR)
⊥	FREEZE PROOF, HOSE BIBB (FPHB/HB)
A.F.F.	ABOVE FINISHED FLOOR
U.O.N.	UNLESS OTHERWISE NOTED

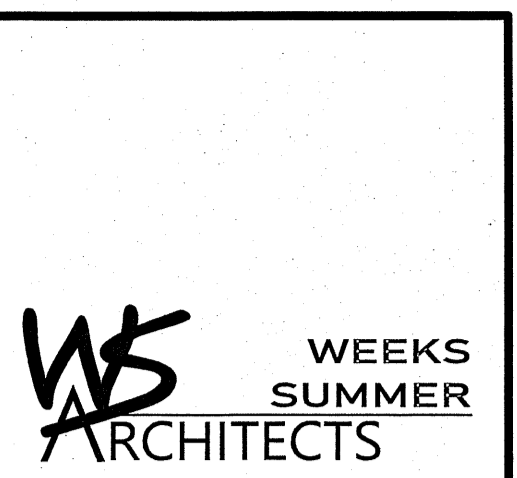


1 EWC DETAIL  
SCALE: NOT TO SCALE

PLUMBING FIXTURE SCHEDULE \*

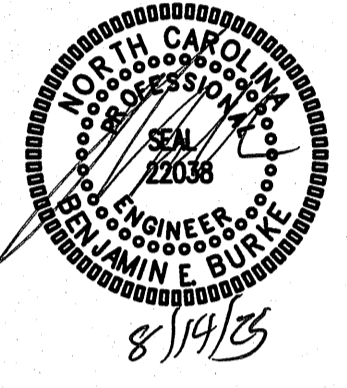
MARK	DESCRIPTION	ALTERNATE MANUFACTURER/MODEL	ALTERNATE MANUFACTURER/MODEL
EWC	ELECTRIC WATER COOLER W/SENSOR BOTTLE FILLER (HI-LO ADA, FILTERED, HIGH UNIT CANE SKIRT) HAWES ADA COMPLIANT CHILLED VANDAL-RESISTANT FOUNTAIN AND MOTION-ACTIVATED BOTTLE FILLER, MODEL H1119.8-1920HO. PROVIDE CANE SKIRT, WATER FILTER. PROVIDE ALL REQUIRED COMPONENTS, OPTIONS, ACCESSORIES, VERIFY W/ARCHITECT. VERIFY MODEL FOR HI/LO LOCATIONS (1-LOW/ADA HEIGHT, 1-HIGH). COORDINATE W/ARCHITECT FOR MOUNTING HEIGHTS.	ELKAY MODEL #LZVRSM-EDPPM21701LK, PROVIDE REMOTE CHILLER.	OASIS MODEL #MBOREBQ. STNLS. STL. ACCESSORY APRON.
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.	ELIER MURRAY II #051-0244 WITH TOTO TEL30510 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 TEL30510 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 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.	FIAT BERKELEY SB2424 BASIN WITH 830AA FAUCET.	STERN WILLIAMS ELFIN EB-54 BASIN WITH T-10-VB FAUCET.
UR **	URINAL (HIGH EFFICIENCY) AMERICAN STANDARD "DECORUM" #8043.001EC, 0.125 GPF, VITREOUS CHINA, 3/4" BACK SPUD. PROVIDE SLOAN #195-0125-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, COORDINATE WITH EXISTING OR NEW STRUCTURE.	KOHLER DEXTER K-5452-ER WITH HYDROTEK H8-D18-0125 FLUSH VALVE. WATTS CA-321 CARRIER.	TOTO #105UVG WITH AMERICAN STANDARD ELECTRONIC #6062.301.007 FLUSH VALVE. JAY R. SMITH 0637 CARRIER.
WC1 **	WATER CLOSET (FLOOR MOUNT TOP SPUD) AMERICAN STANDARD "MADERA FLOWISE" #3461.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" TOP SPUD. ADA COMPLIANT. PROVIDE OPEN FRONT SEAT, AND SENSOR W/MANUAL OVERRIDE FLUSH VALVE EQUAL TO SLOAN OPTIMA 111-1.28-ES-S (AC POWERED) FLUSH VALVE.	ZURN #Z5665 FIXTURE. ZURN #ZEM56000S FLUSH VALVE.	KOHLER HIGHREST #K-4302 FIXTURE. HYDROTEK H8-128 VALVE.
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, AND 1 1/2" BACK SPUD. PROVIDE OPEN FRONT SEAT. PROVIDE SLOAN OPTIMA #152-1.28-ES-S (AC POWERED) SENSOR FLUSH VALVE WITH MANUAL OVERRIDE. PROVIDE ZURN #Z1201-N-4" ADJUSTABLE HORIZONTAL NO HUB FIXTURE CARRIER, W/HEAVY-DUTY 500 LB. REAR ANCHOR, VANDAL-PROOF TRIM. VERIFY CARRIER COMPATIBILITY WITH EXISTING CONDITIONS, REPLACE PIPING AS NEEDED. PROVIDE ADA COMPLIANT INSTALL WHERE REQUIRED (FAMILY ROOM 105).	ZURN #Z5617 FIXTURE. ZURN #ZEM56140AV FLUSH VALVE. WATTS ISCA-101 CARRIER.	KOHLER KINGSTON #K-4329 FIXTURE. HYDROTEK H-808-128, 1.28 GPF VALVE. JAY R. SMITH 210 CARRIER.
WC3 **	WATER CLOSET (FLOOR MOUNT REAR OUTLET W/BACK SPUD) AMERICAN STANDARD "PRIOLO FLOWISE" #3697.001, ELONGATED BOWL, 1.28 GPF, VITREOUS CHINA, AND 1 1/2" BACK SPUD. WC1 TO BE ADA COMPLIANT. PROVIDE OPEN FRONT SEAT. PROVIDE SLOAN OPTIMA #140-1.28-ES-S (AC POWERED) SENSOR FLUSH VALVE WITH MANUAL OVERRIDE. PROVIDE ZURN #Z1201-N4-FMBO FIXTURE CARRIER WITH VANDAL-PROOF TRIM. VERIFY CARRIER COMPATIBILITY WITH EXISTING CONDITIONS, REPLACE PIPING AS NEEDED.	ZURN Z5647-BWL FIXTURE. ZURN #ZEM56152AV-HET, 1.28 GPF VALVE. WATTS ISCA-101-BF CARRIER.	SLOAN ST-2539-LR FIXTURE. HYDROTEK H-808-128, 1.28 GPF VALVE. JAY R. SMITH 0675 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.



W. S. ARCHITECTS, PA  
3305-109 Durham Drive  
Raleigh, North Carolina 27603  
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www.wsarchitectspa.com

ENGINEER  
**BURKE DESIGN GROUP, PA**  
CONSULTING ENGINEERS  
3305-109 Durham Drive  
Raleigh, North Carolina 27603  
919.771.1916 fax: 919.779.0826  
email: ben@bdg-nc.com  
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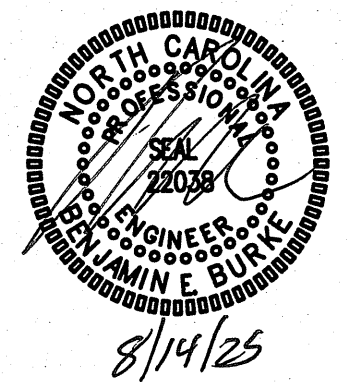
SCO#25-29818-01A

PROJECT TITLE  
DARE COUNTY  
REST AREA (US-64)  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
2404B  
DRAWING TITLE  
PLUMBING SPECIFICATIONS

PLOT DATE 08/14/2025

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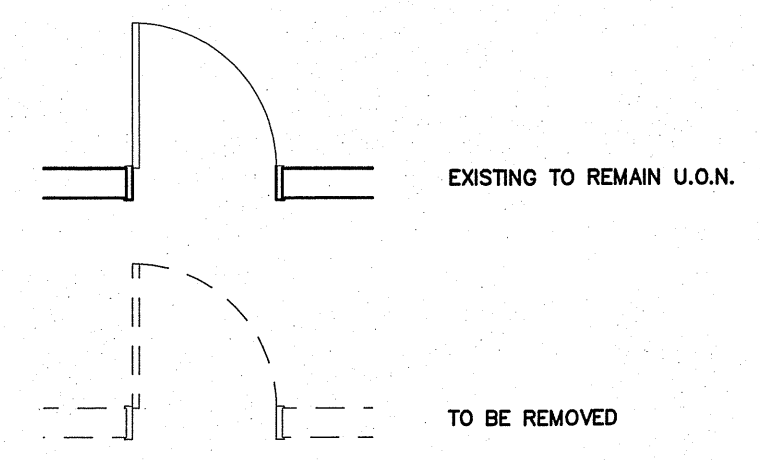


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THE SCOPE OF DEMOLITION IS AS FOLLOWS--  
REMOVE EXISTING FIXTURES IN WORK AREA AS SHOWN. PROVIDE CLEANOUTS ON UNUSED DRAIN LINES AT FINAL FINISHES TO PREVENT DEAD-ENDS PER CODE. REMOVE UNUSED VENT LINES TO ABOVE CEILING AND CAP AT MAIN. REMOVE ALL UNUSED CW & HW LINES/STUB-OUTS, ETC., AND CAP LINES BEHIND FINAL FINISHES. REMOVE AND REPLACE ALL CONCRETE, WALL BOARD AND CEILINGS AS REQUIRED TO LOCATE EXISTING LINES/INSTALL NEW LINES. COORDINATE WITH NEW PLANS FOR ITEMS TO BE REUSED.

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., & 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, FPH'S, ETC.) TO REMAIN OR TO BE REMOVED MAY NOT BE SHOWN. COORDINATE WITH DEMO AND NEW PLANS, FIELD CONDITIONS. VERIFY ALL 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.

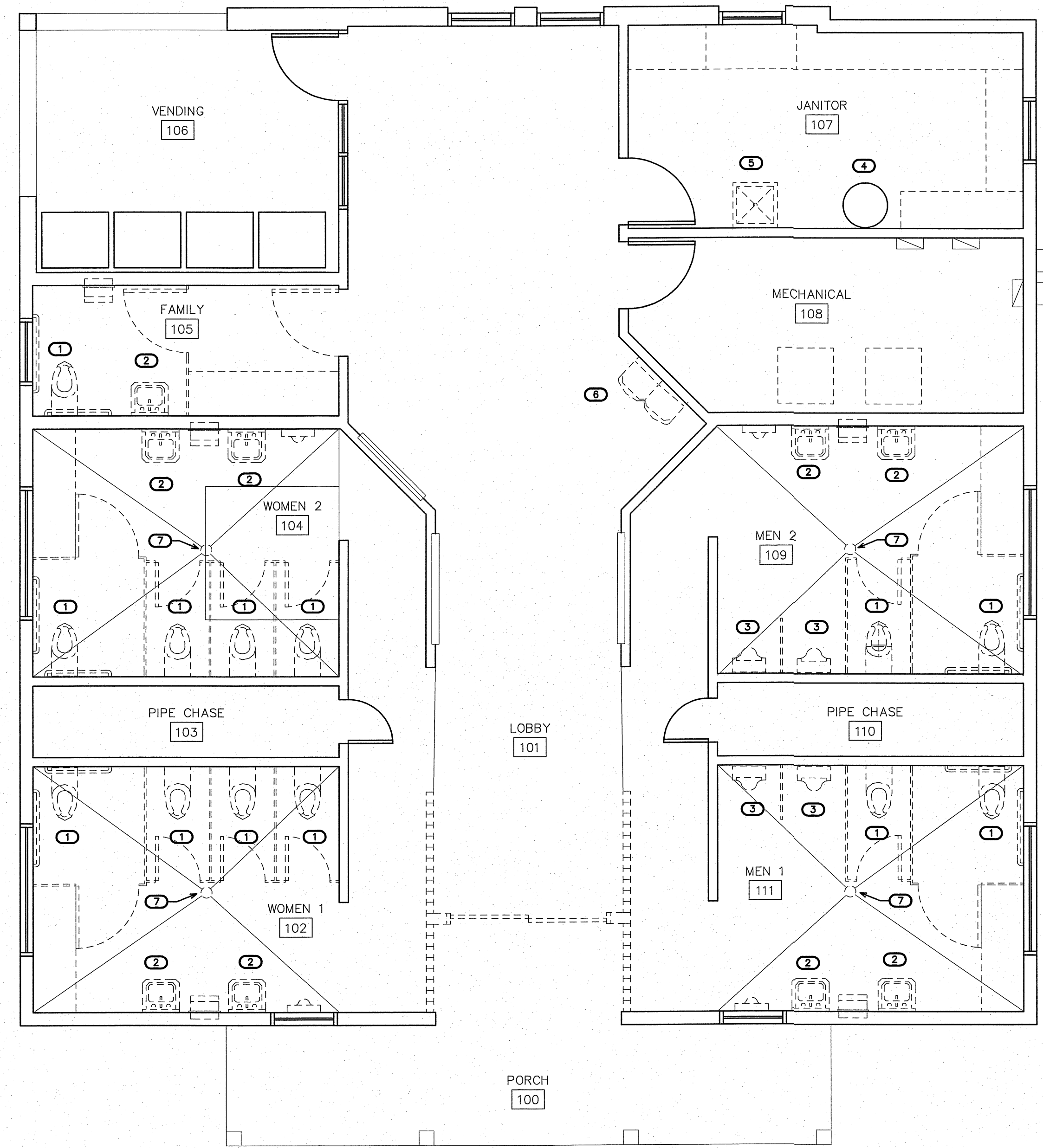
NOTE:  
EXISTING VTR'S MAY BE REQUIRED TO BE DEMO'D TO A POINT BELOW ROOF STRUCTURE FOR ROOF DEMO WORK (BY OTHERS). CAP AND/OR EXTEND VENT PIPING AS REQUIRED FOR REWORK THRU NEW ROOF-- VERIFY VENT PIPING TO BE DEMO'D, COORDINATE WITH G.C., ARCHITECT.

NOTE:  
EXISTING FIXTURE CARRIERS (NOT SHOWN) ARE TO BE REMOVED/REPLACED WITH NEW UNITS AS REQUIRED AND/OR AS SPECIFIED W/NEW FIXTURES (P1 FIXTURE SCHEDULE).

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 (EWH) TO REMAIN.
- 5 MOP SINK W/WALL FAUCET TO BE REMOVED.
- 6 ELECTRIC WATER COOLER TO BE REMOVED.
- 7 EXISTING ROUND FLOOR DRAIN (STRAINER) TO BE REMOVED.

NOTE:  
EXISTING FLOOR DRAIN STRAINER COVERS (ROUND) ARE TO BE REPLACED WITH SQUARE COVERS IF POSSIBLE. COORDINATE WITH EXISTING UNITS, PROVIDE NEW FLOOR DRAIN UNIT ASSEMBLIES/ MODELS IF/AS REQUIRED.



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

SCO#25-29818-01A

PROJECT TITLE  
DARE COUNTY  
REST AREA (US-64)  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
2404b  
DRAWING TITLE  
DEMO PLAN

P2

PLOT DATE 08/14/2025

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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"	-
(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 1/2"	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.

NOTE:  
PROVIDE NEW VENT THRU ROOF (VTR) WHERE AND RUN HORIZONTALLY AS REQUIRED TO MAINTAIN 10'-0" (MIN.) CLEARANCE FROM ANY INTAKES. PROPERLY FLASH ROOF PENETRATIONS. (TYP)

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:  
PROVIDE NEW VTR'S AS REQUIRED DUE TO NEW ROOF CONSTRUCTION. VERIFY NEW VTR LOCATIONS. PAINT EXPOSED EXTERIOR PIPING AS REQUIRED. COORDINATE WITH G.C., ARCHITECT.

NOTE:  
REPLACE EXISTING EXTERIOR FREEZE-PROOF AND INTERIOR HOSE BIBBS (NOT SHOWN) IF/AS REQUIRED. VERIFY LOCATIONS. NEW UNIT MODELS. COORDINATE W/ARCH.

KEY NOTES FOR SHEET P3

- 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.
- 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.
- PROVIDE TMV AT LAVATORY FOR 110 DEG. F (MAX.) HW ONLY TO SENSOR FAUCET. LOCATE TMV (NOT SHOWN) IN A PROPER MAINTENANCE ACCESSIBLE AREA BELOW FIXTURE, OR AS REQUIRED. PROVIDE TMV FOR EACH FAUCET IN L2 AS REQUIRED.
- 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.

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REMOVE AND REPLACE ALL CONCRETE, ASPHALT, WALL MATERIAL, CEILING, 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, CEILING, 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.

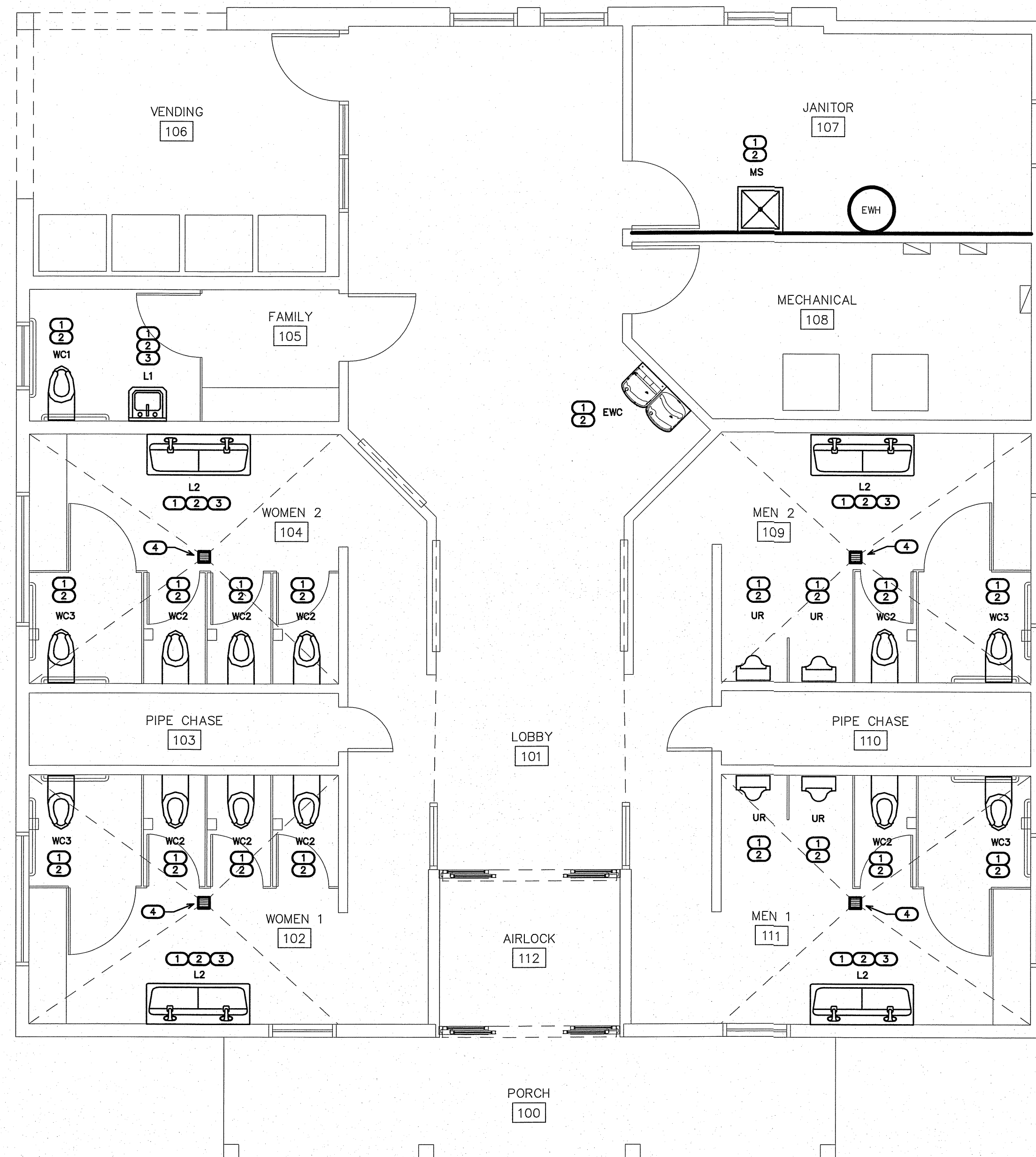
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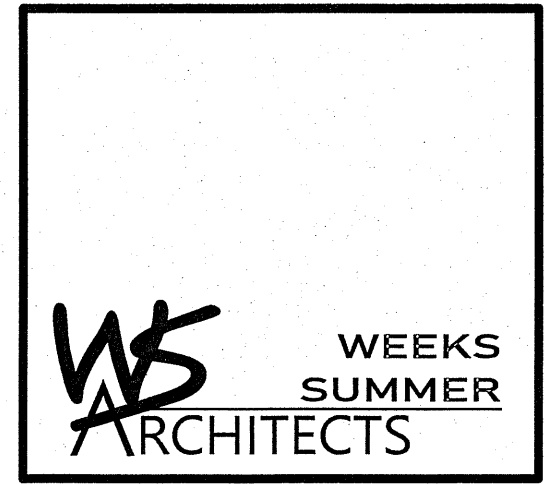
EXISTING OR NON-PLUMBING ITEM (LIGHT)



NEW PLUMBING ITEM (BOLD)



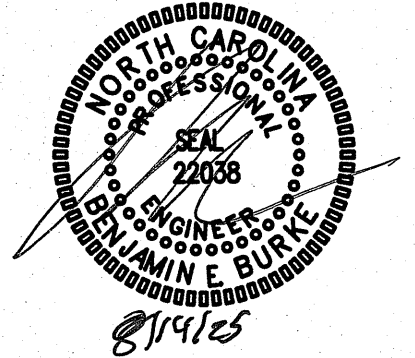
1 PLUMBING PLAN - RESTROOM BUILDING  
SCALE: 1/4" = 1'-0"



W. S. ARCHITECTS, PA  
3305-109 Durham Drive  
Raleigh, North Carolina 27603  
919.779.9797  
www.wsarchitectspa.com

ENGINEER

**BURKE DESIGN GROUP, PA**  
CONSULTING ENGINEERS  
3305-109 Durham Drive  
Raleigh, North Carolina 27603  
919.771.1916 fax: 919.779.0826  
email: ben@bdg-nc.com  
Corp. License # C-2652



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REST AREA (US-64)  
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PROJECT NO.  
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PLUMBING PLAN

P3

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# HVAC EQUIPMENT SCHEDULE (100% OUTSIDE AIR DOAS UNIT)

TAG	QTY	DOAS MODEL #	FAN INFORMATION										COOLING INFORMATION						HOT GAS REHEAT INFORMATION				ELECTRIC HEAT INFORMATION							
			MANUFACTURER	RETURN AIR CFM	OUTSIDE AIR CFM	TOTAL CFM	WEIGHT (LBS)	ESP	SUPPLY FAN HP	PHASE	VOLT	MCA	MOCF	OUTSIDE AIR		MIXED AIR		LEAVING AIR COIL		CAPACITY		IEER	DISCHARGE		RELATIVE HUMIDITY	HEATING CAPACITY	INPUT KW	ENTERING AIR DB	LEAVING AIR DB	ELEC HEAT FLA
														DB	WB	DB	WB	DB	WB	TOTAL	SENS.		DB	WB						
DOAS-1	1	RNA-018-C-A-B-GAATC-B03ND ; OY-QF02F-A00-00000-00000-U0-CB0 A-00-ED-0-AV0-EB-FA0A-00-000-A0A00-E000F-000000B	AAON*	0	2400	2400	2800	1.00	2.00	3	208	166A	175A	95.0F	78F	----	----	51.1F	51.1F	204 MBH	107 MBH	15.68	72.0F	59.4F	47.5%	153.9 MBH	372852	28 F	87.2 F	125.2

PROVIDED WITH DOAS UNIT:

- 304 STAINLESS STEEL EVAPORATOR COIL END CASINGS
- POLYMER E-COATED CONDENSER AND EVAPORATOR COILS
- EXTERIOR PAINT TO HAVE 2,500HR SALT SPRAY RATING PER ASMT B 117-95 TEST PROCEDURE
- 100% OA W/ MOTORIZED DAMPERS (NO RETURN)
- VCC COMPRESSORS (10% TO 100% TURNDOWN)
- FILTERS: 4 MERV 13 & 2 MERV 8 PRE-FILTER
- CLOGGED FILTER SWITCH
- PHASE & BROWNOUT PROTECTION
- SCR ELECTRIC HEAT (0-100% FULL MODULATION)
- MODULATING HOT GAS REHEAT
- 2 THICK FOAM INJECTED DOUBLE WALL CABINET CONSTRUCTION
- CONDENSER FANS WITH HEAD PRESSURE CONTROL

COASTAL CORROSION PROTECTION:

COILS SHALL HAVE A FLEXIBLE, EPOXY POLYMER E-COAT UNIFORMLY APPLIED TO ALL COIL SURFACE AREAS WITHOUT MATERIAL BRIDGING BETWEEN FINS. HUMIDITY AND WATER IMMERSION RESISTANCE SHALL BE UP TO A MINIMUM 1,000 HOURS EACH (ASTM D2247-92 AND ASTM D870-92). CORROSION DURABILITY SHALL BE CONFIRMED THROUGH TESTING, WITH COATING CAPABLE OF WITHSTANDING AT LEAST 10,000 HOURS OF SALT SPRAY PER ASTM B117-90. COATED COILS SHALL RECEIVE A SPRAY-APPLIED, UV-RESISTANT POLYURETHANE TOPOCOAT TO PREVENT UV DEGRADATION OF THE E-COAT. COATING SHALL CARRY A 5 YEAR WARRANTY, FROM THE DATE OF ORIGINAL EQUIPMENT SHIPMENT FROM THE FACTORY.

EXTERIOR PAINT FINISH SHALL BE CAPABLE OF WITHSTANDING AT LEAST 2,500 HOURS, WITH NO VISIBLE CORROSIVE EFFECTS, WHEN TESTED IN A SALT SPRAY AND FOG ATMOSPHERE IN ACCORDANCE WITH ASTM B 117-95 TEST PROCEDURE.

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 UNIT IS RUNNING.

\* OR APPROVED EQUAL BY ADDISON OR GREENIECK

## EXHAUST FAN SCHEDULE

EXHAUST FAN #1 (EF-1)	* GREENIECK MODEL# SQ-100-VG IN-LINE DIRECT DRIVE EXHAUST FAN, 1150 CFM @ 0.50" SP, 1654 RPM, 1/4 HP, 120V. 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)	* GREENIECK MODEL# SQ-100-VG IN-LINE DIRECT DRIVE EXHAUST FAN, 1000 CFM @ 0.50" SP, 1518 RPM, 1/4 HP, 120V. 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 THE EXHAUST FANS ARE RUNNING.

## AIR DISTRIBUTION SCHEDULE

MARK	* MANUFACTURER	MODEL NO.	NECK SIZE	FACE SIZE	MATERIAL	SERVICE	NOTES
B	CARNES	RTDBH	4" X 48"	16" X 8"	STEEL	SUPPLY	DUCT, SIDE WALL, OR CEILING MOUNTED
B	CARNES	RTDBH	4" X 48"	16" X 8"	STEEL	SUPPLY	DUCT, SIDE WALL, OR CEILING MOUNTED
RB	CARNES	RSABH	24" X 16"	26" X 18"	STEEL	RETURN	WHITE, SIDEWALL MOUNTED
RB	CARNES	RSABH	24" X 16"	26" X 18"	STEEL	RETURN	WHITE, SIDEWALL MOUNTED

\* OR APPROVED EQUAL BY METALAIR OR PRICE.

COORDINATE BORDER TYPE WITH THE CEILING TYPE. SEE ARCH SHEETS PROVIDE OUT SHEETS TO OWNER/ARCH. PRIOR TO ORDERING.

## FLEXIBLE DUCTWORK SIZES

MAXIMUM CFMS

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 CFMS SHOWN)

## FLEXIBLE DUCTWORK NOTES

- INSTALL FLEXIBLE DUCTWORK RUNS AS STRAIGHT AS POSSIBLE.
- DO NOT ALLOW FLEXIBLE DUCT TO SAG BETWEEN SUPPORTS.
- DO NOT STRETCH A SHORT SECTION TO FIT A SLIGHTLY LONGER SECTION. THIS DISTORTS THE DUCT SHAPE AND IMPEDES AIR FLOW.
- DO NOT CRUSH DUCTWORK TO FIT IN A SPACE SMALLER THAN ITS ORIGINAL OUTSIDE DIAMETER. MAXIMUM ALLOWABLE DEFORMATION IS 15% OF ORIGINAL VOLUME.
- USE RIGID 90 DEGREE ELBOWS AT ANY LOCATION WHERE THE DUCTWORK BECOMES DISTORTED.
- 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.
- SIZE ALL FLEXIBLE DUCT SO AS NOT TO EXCEED MAXIMUM CFMS GIVEN IN TABLE.

## GENERAL NOTES - MECHANICAL

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE AND ALL LOCAL AND OTHER APPLICABLE CODES.
- ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (MC).
- 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.
- THE LOCATION OF ALL DUCT, PIPING AND EQUIPMENT SHALL BE ADJUSTED TO ACCOMMODATE ANTICIPATED OR ENCOUNTERED INTERFERENCES.
- THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS REFER TO THE ARCHITECTURAL PLANS.
- 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.
- 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.
- INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AHU. ALL MECHANICAL EQUIPMENT SHALL OPERATE FREE OF OBJECTIONAL NOISE AND VIBRATION.
- 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.
- DUCT DIMENSIONS ARE SHOWN INSIDE CLEAR.
- 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.
- 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.
- THE M.C. SHALL COORDINATE WITH AND PROVIDE EQUIPMENT SPEC. SHEETS TO THE GENERAL AND ELECTRICAL CONTRACTORS FOR REVIEW PRIOR TO ORDERING EQUIPMENT.
- 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.

## LEGEND - MECHANICAL

	RECTANGULAR DUCTWORK. INSIDE CLEAR DIMENSION INDICATED (WIDTH X HEIGHT)
	FLEXIBLE DUCTWORK
	ROUND GALVANIZED STEEL DUCT INSIDE CLEAR DIMENSION INDICATED.
	WALL OR DUCT MOUNTED SUPPLY AIR REGISTER
	WALL MOUNTED EXHAUST GRILLE
	WALL MOUNTED CONTROL PANEL FOR DOAS UNIT. MOUNT AT 48" AFF.
	WALL MOUNTED REMOTE TEMPERATURE/HUMIDITY SENSOR. MOUNT AT 72" AFF.
	GRILLE TYPE
	MIN. CFM

## 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	3A
winter dry bulb	28F
summer dry bulb	93F
Interior Design Conditions	
winter dry bulb	72F
summer dry bulb	75F
relative humidity	50%
Building Heating Load	131,200 BTU/hr
Building Cooling Load	139,200 BTU/hr
Mechanical Spacing Conditioning System	
Unitary	The tenant space is served the following systems: (1) 2400 CFM, 17 Ton, 100% Outside air DOAS unit. DX Cooling with electric 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.	

APPLICATION	SQUARE FOOTAGE (SF)	AREA OUTDOOR AIR FLOW RATE (CFM/SF)	PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	OCCUPANCY DENSITY RATE (# PEOPLE/1000SF)	OCCUPANCY (# 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		2400 CFM						
TOTAL PROVIDED		2400 CFM *						
APPLICATION CFM								
TOILETS		70 CFM/FLUSHING FIXTURE						
17 FLUSHING FIXTURE X 70 CFM = 1190 CFM								
2150 CFM EXHAUST PROVIDED BY TWO EXHAUST FANS, MAKE UP AIR BY TRANSFER AIR								

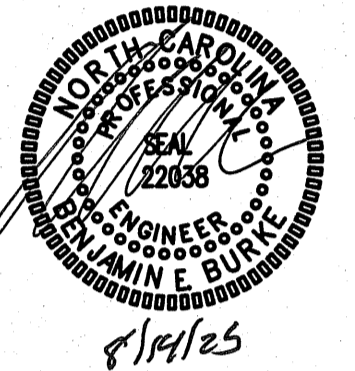
\* OUTSIDE AIR QUANTITY PROVIDED FOR MAKE-UP AIR FOR TOILET EXHAUST AND BUILDING PRESSURIZATION.

W.S. ARCHITECTS  
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www.wsarchitectspa.com

ENGINEER

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HVAC SCHEDULES

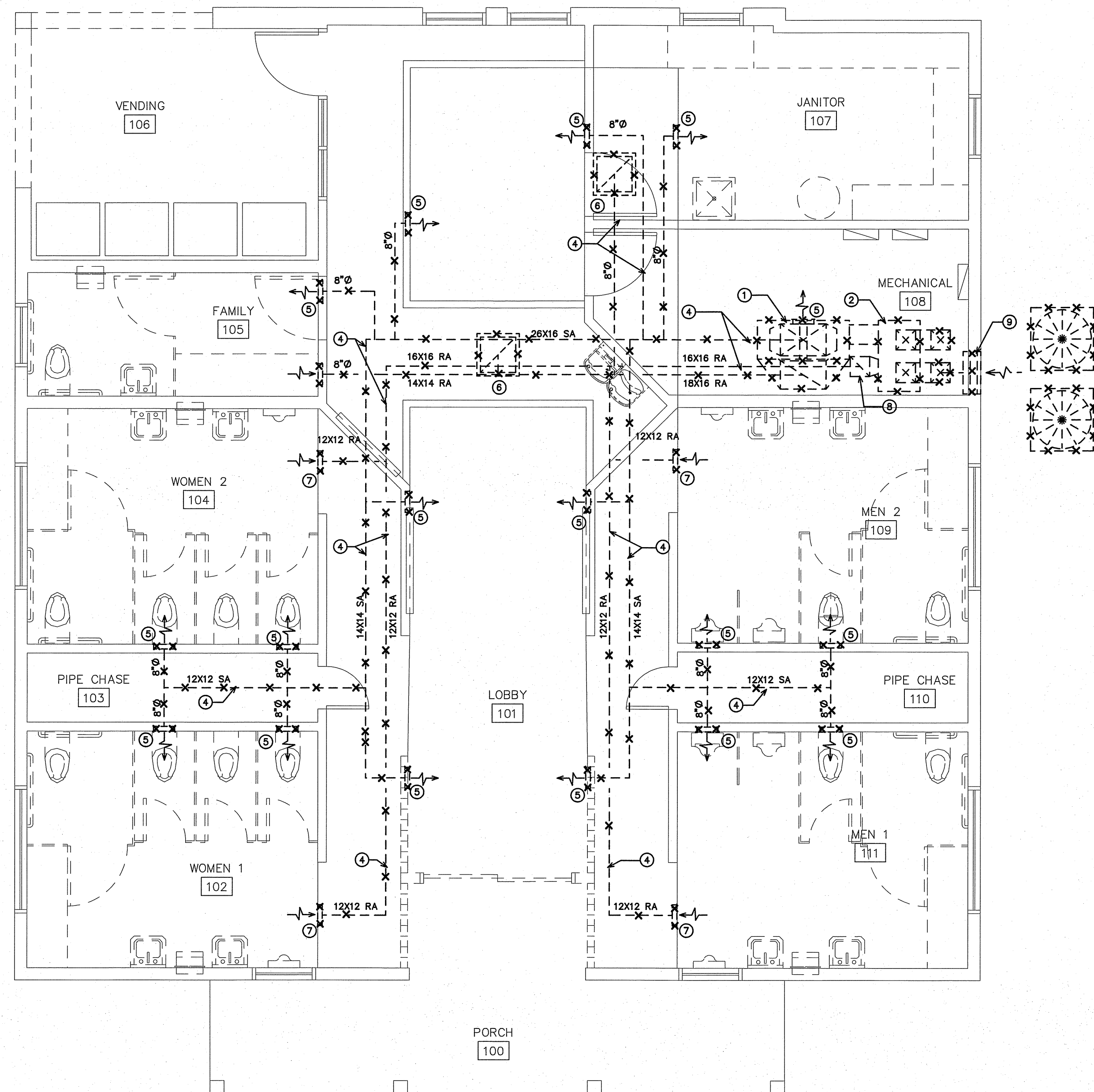
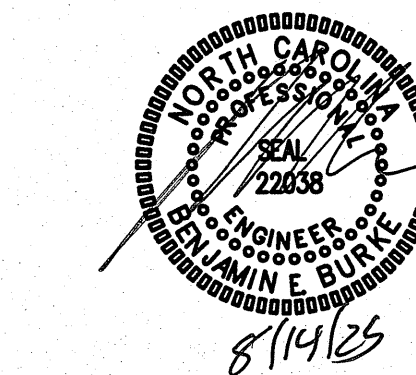
M1

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ENGINEER

**BDG** BURKE DESIGN GROUP, PA  
CONSULTING ENGINEERS  
3305-109 Durham Drive  
Raleigh, North Carolina 27603  
919.771.1916 fax: 919.779.0826  
email: ben@bdg-nc.com  
Corp. License # C-2652



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

KEY NOTES FOR SHEET M2

- ① REMOVE (2) EXISTING AIR HANDLING UNITS AND ALL ASSOCIATED PIPING AND WRING.
- ② REMOVE EXISTING ERV.
- ③ REMOVE EXISTING OUTDOOR HEAT PUMP UNITS AND ALL ASSOCIATED PIPING AND WRING.
- ④ REMOVE ALL EXISTING SUPPLY, RETURN, AND EXHAUST DUCTWORK. (TYPICAL).
- ⑤ REMOVE EXISTING SUPPLY AIR REGISTER.
- ⑥ REMOVE EXISTING RETURN AIR GRILLE.
- ⑦ REMOVE EXISTING EXHAUST AIR GRILLE.
- ⑧ REMOVE EXISTING ROOF EXHAUST CAP AND DUCTWORK.
- ⑨ REMOVE EXISTING WALL OUTSIDE AIR INTAKE.

SCO#25-29818-01A

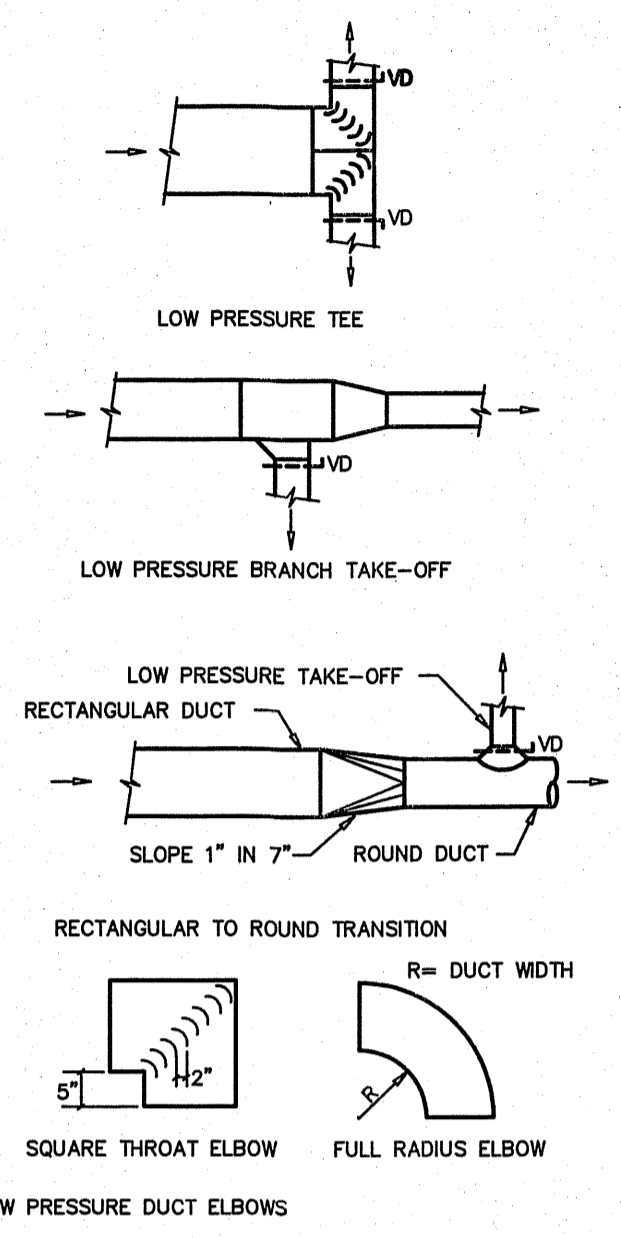
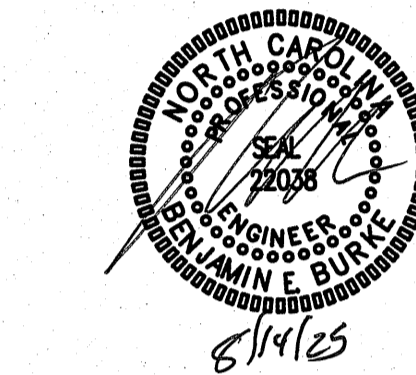
PROJECT TITLE  
DARE COUNTY  
REST AREA (US-64)  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
2404b

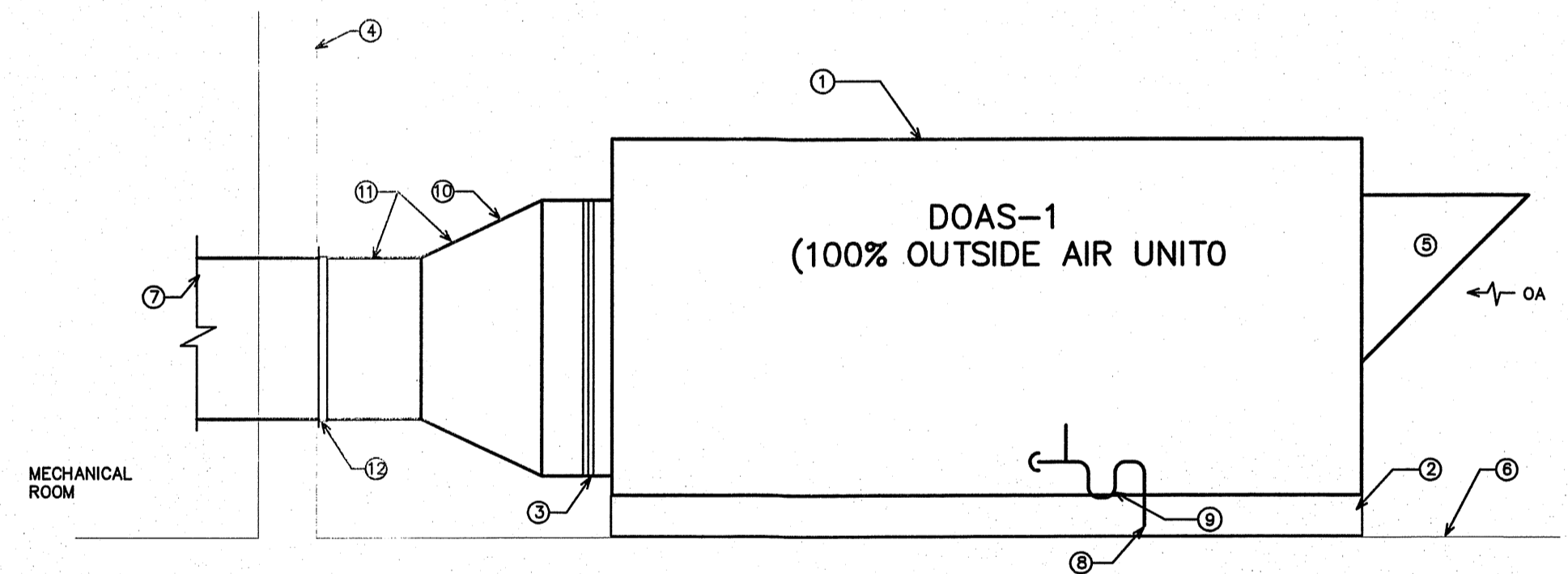
DRAWING TITLE  
HVAC DEMO PLAN

M2

PLOT DATE 08/14/2025

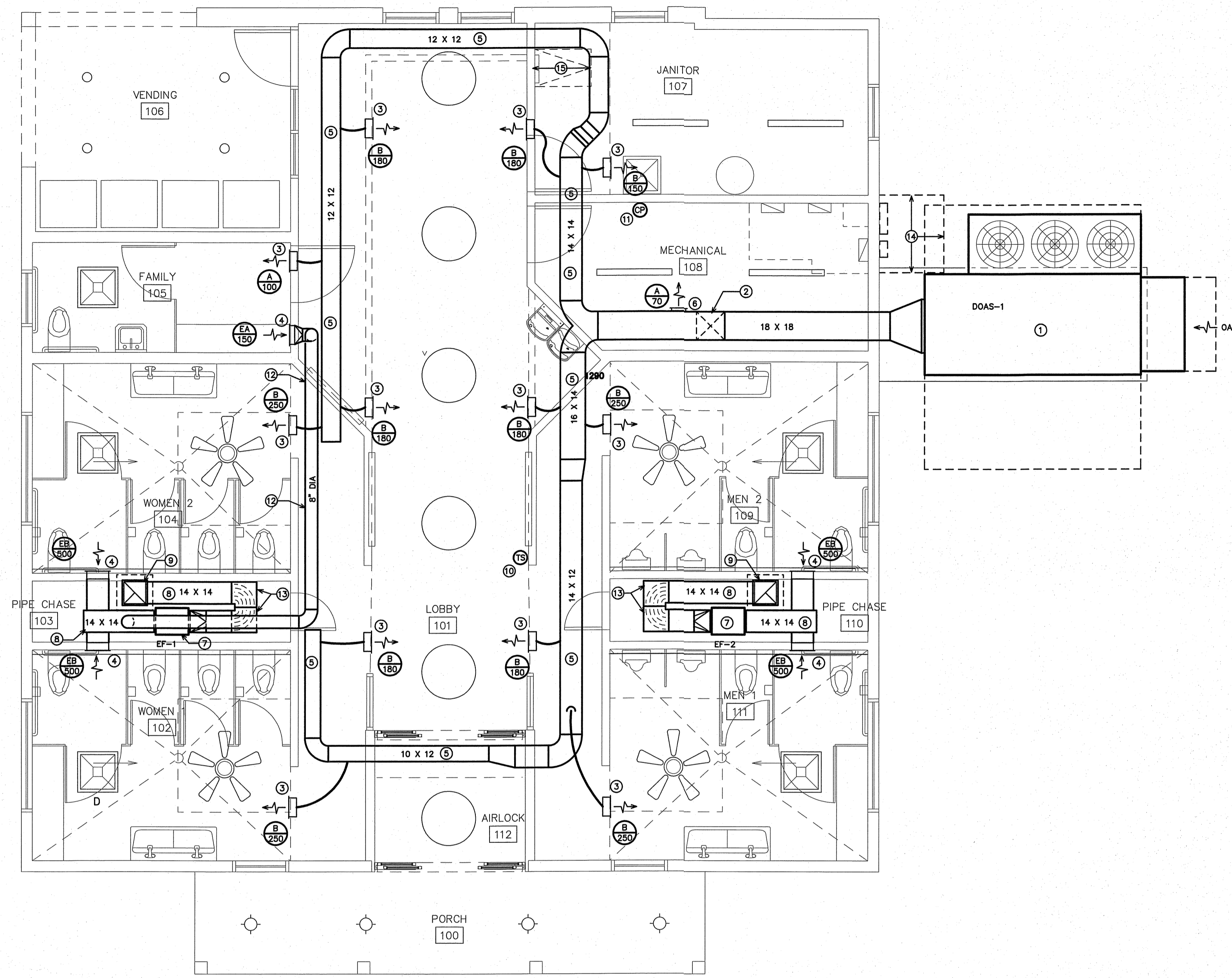


**3 DUCT CONSTRUCTION DETAIL**  
SCALE: NOT TO SCALE



- KEY NOTES FOR 1/M3
- 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.

**2 100% AIR DOAS UNIT DETAIL**  
SCALE: NOT TO SCALE



**1 NEW WORK HVAC 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 2/M3.
  - 2 DUCT SHALL RISE AT THIS LOCATION INTO ATTIC SPACE.
  - 3 HIGH SIDE WALL MOUNTED SUPPLY AIR REGISTER.
  - 4 HIGH SIDE WALL MOUNTED EXHAUST GRILLE.
  - 5 RUN SUPPLY AIR DUCT CONCEALED ABOVE CEILING IN BULKHEAD STRUCTURE.
  - 6 DUCT MOUNTED SUPPLY AIR REGISTER.
  - 7 IN-LINE TOILET EXHAUST FAN SUSPENDED FROM ROOF STRUCTURE. SUSPEND FAN ABOVE PLUMBING VENT PIPING.
  - 8 RUN DUCTWORK ABOVE PLUMBING VENT PIPING IN CHASE.
  - 9 14" X 14" EXHAUST DUCT UP TO NEW ROOF MOUNTED EXHAUST HOOD. EXHAUST HOOD SHALL BE EQUAL TO CARNES MODEL OE, SIZE 16" X 16", TRANSITION EXHAUST DUCT TO 18" X 18" THROAT OF EXHAUST HOOD. INSTALL HOOD ON LOWER 4/12 ROOF, NOT IN UPPER 12/12 ROOF AREA.
  - 10 REMOTE SENSOR FOR DOAS UNIT CONTROL.
  - 11 CONTROL PANEL FOR DOAS UNIT.
  - 12 RUN EXHAUST DUCT CONCEALED ABOVE CEILING IN BULKHEAD STRUCTURE. RUN AS LOW AS POSSIBLE.
  - 13 TURNING VANES IN ELBOWS.
  - 14 COORDINATE WITH ELECTRICAL SERVICE EQUIPMENT IN THIS AREA TO PROVIDE REQUIRED NEC CLEARANCES BETWEEN EXISTING ELECTRICAL EQUIPMENT AND NEW DOAS UNIT.
  - 15 EXISTING ACCESS TO "CATWALK" ON EXISTING BULKHEAD STRUCTURE.

SCO#25-29818-01A

PROJECT TITLE  
**DARE COUNTY REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**  
DRAWING TITLE  
**NEW WORK HVAC PLAN**

**M3**

PLOT DATE 08/14/2025

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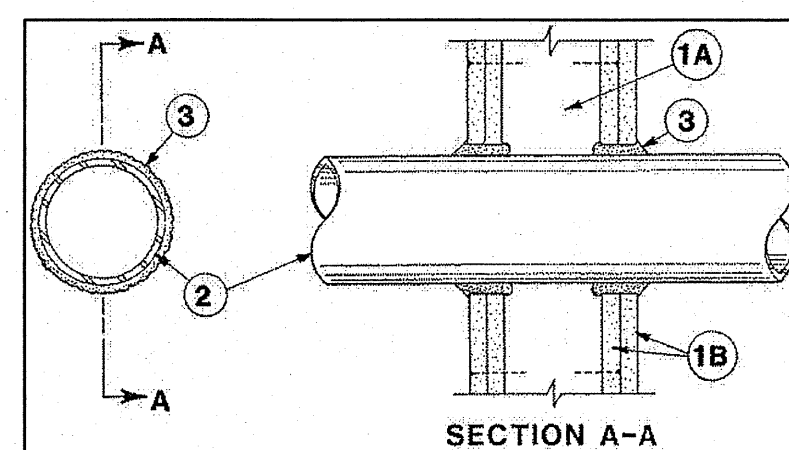
System No. W-L-1001

F Ratings -- 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings -- 0, 1, 2, 3, and 4 Hr (See Item 3)

L Rating At Ambient -- less than 1 CFM/sq ft

L Rating At 400 F -- less than 1 CFM/sq ft



1. **Wall Assembly** -- The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

**A. Studs** -- Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC with nom 2 by 4 in. lumber end plates and cross braces. Steel studs to be min 3-5/8 in. wide by 1-3/8 in. deep channels spaced max 24 in. OC.

**B. Gypsum Board** -- Nom 1/2 or 5/8 in. thick, 4 ft. wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in.

2. **Through-Penetrant** -- One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit, or tubing and periphery of opening shall be min of 0 in. (point contact) to max 2 in. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

**A. Steel Pipe** -- Nom 24 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.

**B. Iron Pipe** -- Nom 24 in. diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

**C. Conduit** -- Nom 6 in. diam (or smaller) steel conduit or nom 4 in. diam (or smaller) steel electrical metallic tubing.

**D. Copper Tubing** -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.

**E. Copper Pipe** -- Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.

**F. Through Penetrating Products** -- Flexible Metal Piping -- The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**OMEGA FLEX INC**

2. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**GASTITE, DIV OF TITEX**

3. Nom 1 in. diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

**WARD MFG LLC**

**Fill, Void or Cavity Materials** -- Caulk or Sealant -- Min 5/8, 1-1/4, 1-7/8 and 2-1/2 in. thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below.

Max Pipe or Conduit Diam In	F RATING Hr	T RATING Hr
1	1 or 2	0+, 1 or 2
1	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 hr.

**3M COMPANY** -- CP 25MB+ or FB-3000 WT.

+Bearing the UL Classification Mark

**GENERAL NOTES**

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES HAVING JURISDICTION.
- ALL BRANCH CIRCUIT CONDUCTORS TO BE COPPER (SERVICE CONDUCTORS MAY BE ALUMINUM WITH SAME AMPACITY AS COPPER CONDUCTORS. RE-SIZE CONDUCTORS AND CONDUIT PER NEC).
- 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.
- ALL EMPTY CONDUIT RUNS IN EXCESS OF 10 FEET SHALL BE PROVIDED WITH A PULL WIRE OR FISH TAPE/COORD.
- CONTRACTOR SHALL VERIFY THAT ALL DOOR SWINGS ARE CORRECT BEFORE INSTALLING LIGHT SWITCH OUTLETS.
- 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.
- THE CORRECT NUMBER OF WIRES MAY NOT BE INDICATED FOR ALL CIRCUITS, ONLY THOSE WHERE CLARIFICATION IS NECESSARY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL WIRES NECESSARY FOR THE PROPER FUNCTION OF THE SYSTEM WHETHER INDICATED ON DRAWINGS OR NOT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANELBOARDS.
- 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.
- 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.
- 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.
- PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL DISCONNECTS FOR MECHANICAL & PLUMBING EQUIPMENT. DISCONNECTS SHALL BE PER MANUFACTURERS RECOMMENDATIONS AND FUSED PER NAME PLATE. PROVIDE NEMA 3R ENCLOSURES ON EXTERIOR. COORDINATE FUSE SIZES.
- 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**

- LIGHT FIXTURE. LETTER DENOTES FIXTURE TYPE (REFER TO LIGHTING PLAN AND FIXTURE SCHEDULE). NL = NIGHT LIGHT (NOT SWITCHED/ALWAYS ON)
- 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.
- QUADRUPLEX RECEPTACLE -- 120V
- FLOOR OR CEILING OUTLET (AS NOTED) -- 120V
- SPECIAL PURPOSE RECEPTACLE -- REFER TO POWER PLAN AND PANEL SCHEDULE
- LIGHT SWITCH
- SWITCH WITH INTEGRAL PIR/US MOTION SENSOR FOR AUTOMATIC SHUT-OFF WITH UP TO 2 HOUR ADJUSTABLE DELAY.
- DIMMABLE LIGHT SWITCH
- MOTOR RATED SWITCH
- 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 LIGHT
- EMERGENCY EGRESS FIXTURE
- PHOTOCELL (LED COMPLIANT)
- BRANCH CIRCUIT WIRING
- SWITCH LEG
- GROUND CONNECTION
- DISTRIBUTION PANELBOARD
- DISCONNECTING MEANS AS REQUIRED BY CODE

**APPENDIX B  
2018 BUILDING CODE SUMMARY  
FOR ALL COMMERCIAL PROJECTS**

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

**ELECTRICAL SYSTEM AND EQUIPMENT**

Method of Compliance

Energy Code: Prescriptive  Energy Cost Budget

ASHRAE 90.1: Prescriptive  Energy Cost Budget

Lighting Schedule

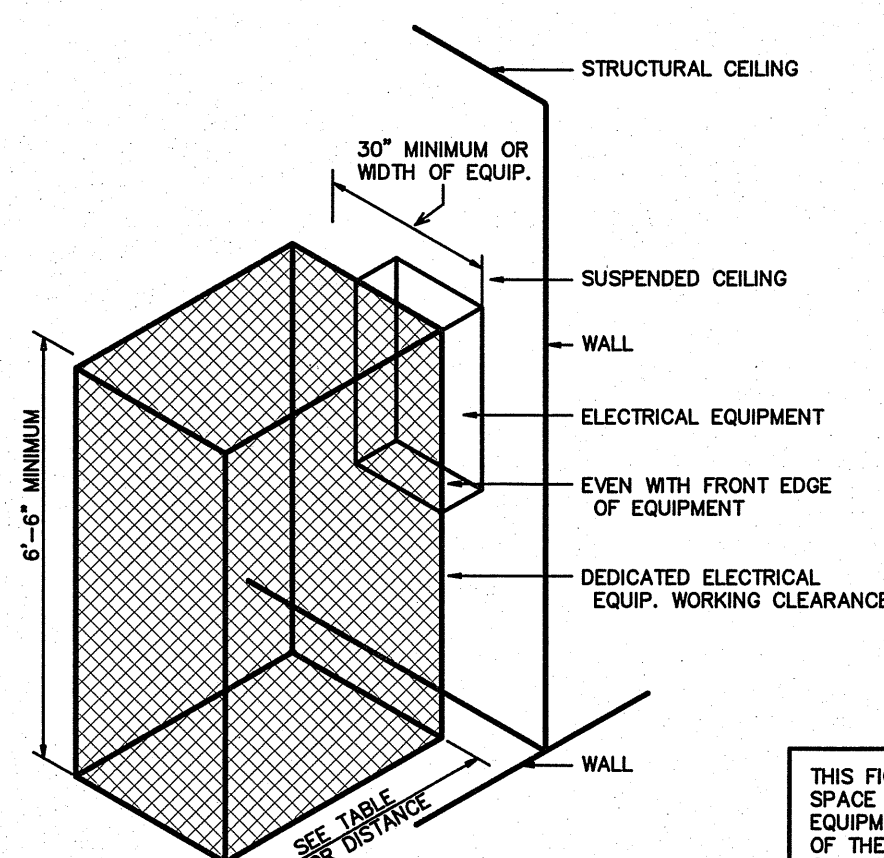
Lamp type required in fixture  
number of lamps in fixture  
ballast type used in fixture  
number of ballasts in fixture  
total wattage in fixture  
total interior wattage specified vs. allowed  
total exterior wattage specified vs. allowed

See Light Fixture Schedule

1482VA / 2235VA  
34VA / 500VA

Additional Prescriptive Compliance

- 908.2.1 More Efficient Mechanical Equipment
- 908.2.2 Reduced Lighting Power Density
- 908.2.3 Energy Recovery Ventilation Systems
- 908.2.4 Higher Efficiency Service Water Heater
- 908.2.5 On-Site Supply of Renewable Energy
- 908.2.6 automatic Daylighting Control System



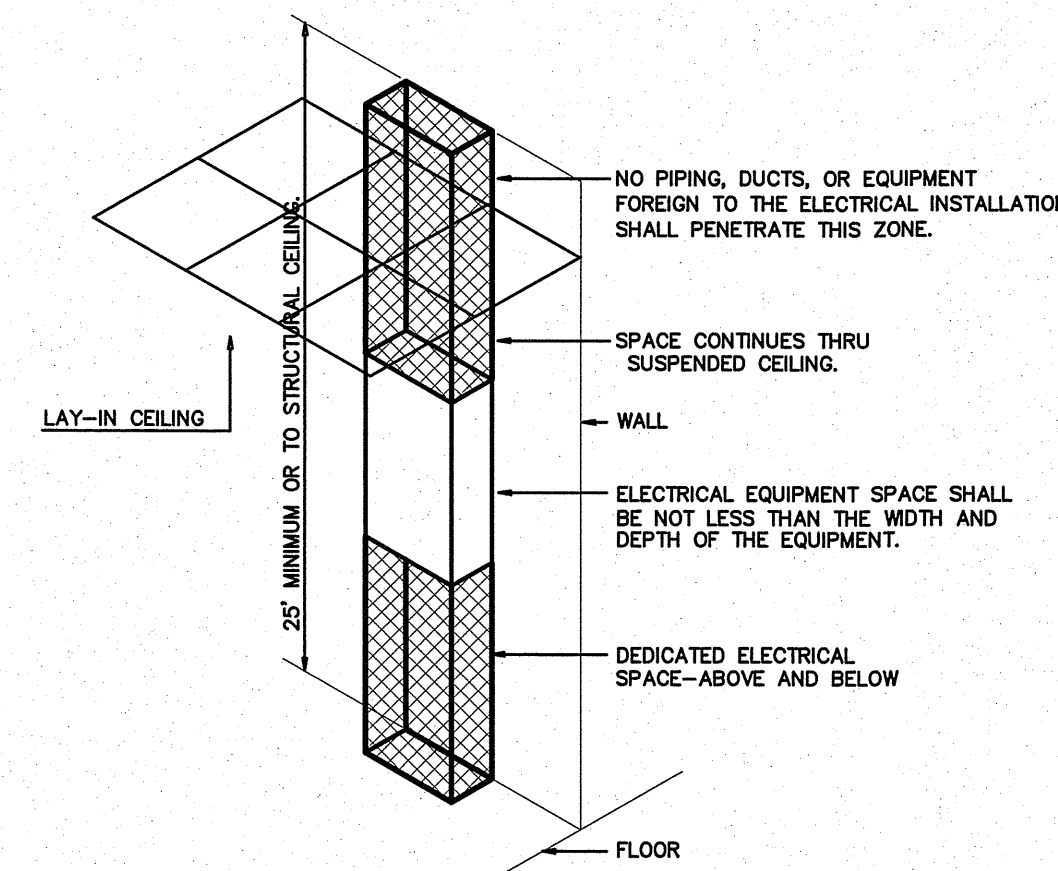
**ELECTRICAL EQUIPMENT WORKING CLEARANCE PER ARTICLE 110-26 OF N.E.C.**

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

**1 ELECTRICAL CLEARANCES**  
SCALE: NTS

WHERE THE CONDITIONS ARE AS FOLLOWS:

- 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.
- EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
- EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.



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

**2 DEDICATED SPACE**  
SCALE: NTS

SCO#25-29818-01A

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**DARE COUNTY  
REST AREA (US-64)**  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**

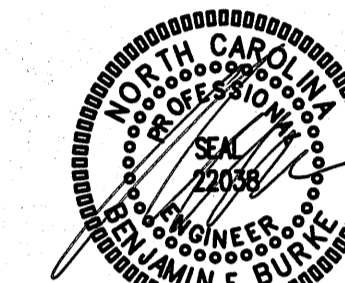
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**EXISTING LIGHTING PLAN**

**E1**

PLOT DATE 08/14/2025

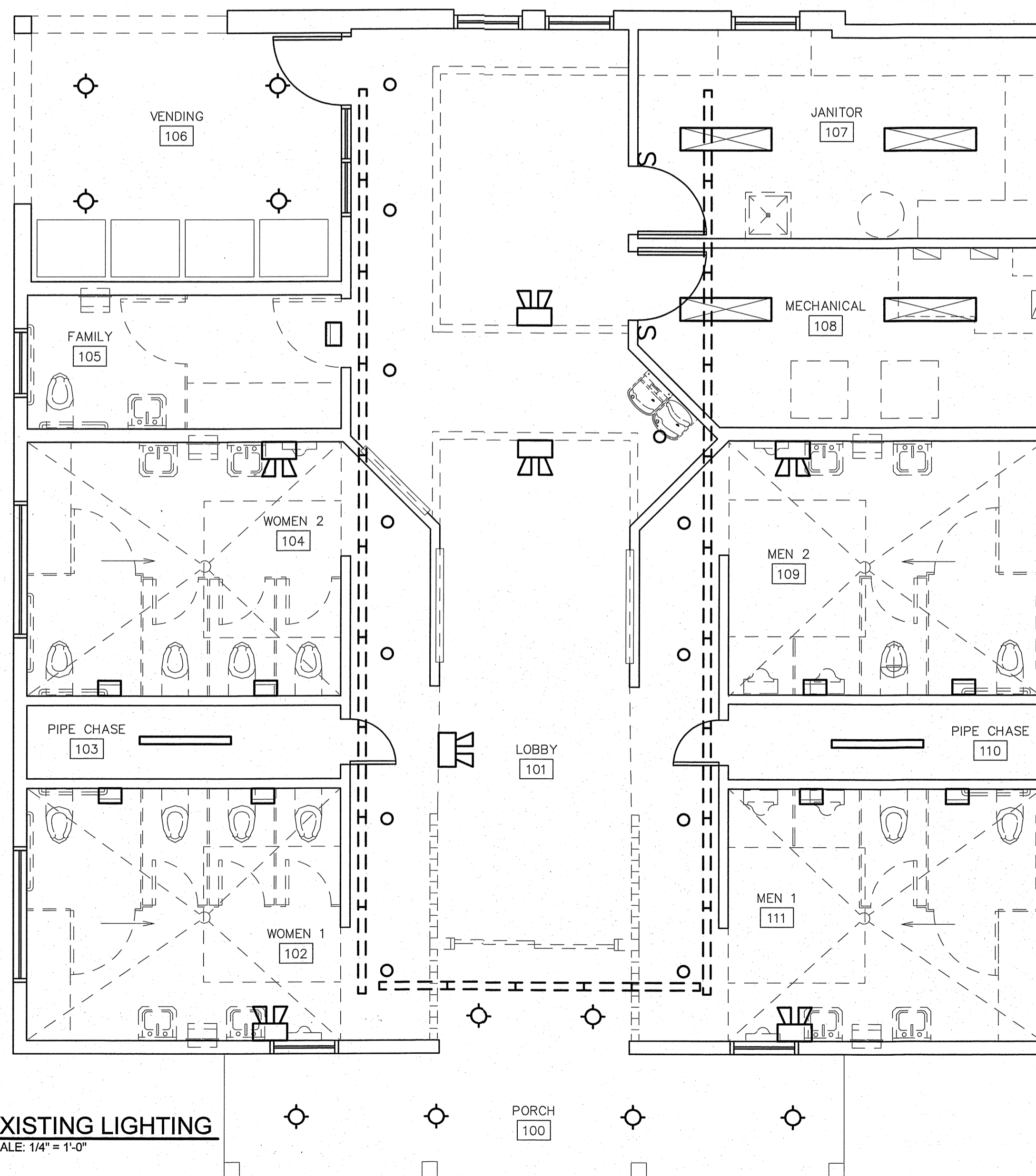
ENGINEER

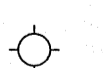
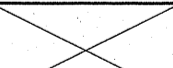


**BURKE** BURKE DESIGN GROUP, PA  
CONSULTING ENGINEERS  
3305-109 Durham Drive  
Raleigh, North Carolina 27603  
919.771.1916 fax: 919.779.0826  
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Corp. License # C-2652



8/14/25

THE SCOPE OF DEMOLITION IS AS FOLLOWS:-  
REMOVE ALL LIGHTING/DEVICES AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED.  
REMOVE ALL DEMO'D LIGHT FIXTURES AND PROPERLY DISPOSE OF ALL FIXTURES, BALLASTS, ETC.  
REFEED ANY DEVICES REMAINING DOWN LINE FROM REMOVED DEVICE.  
REMOVE ALL WIRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.



-   = EXISTING FIXTURE TO REMAIN
-   = EXISTING FIXTURE TO BE RELOCATED/REMOVED

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

SCO#25-29818-01A

PROJECT TITLE  
DARE COUNTY  
REST AREA (US-64)  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
2404b  
DRAWING TITLE  
EXISTING LIGHTING PLAN

E2

PLOT DATE 08/14/2025

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LIGHTING SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMP TYPE	BALLAST TYPE	W/FIXTURE	REMARKS	
A	FINELITE	HP-2-WM-ID-36-S-840-TG	120	-	LED	-	-	37	WALL MOUNTED 3' UPLIGHT STRIP LED *
B	PRESCOLITE	LTC-6RD-H-SL15L-DM1	120	-	LED	-	-	23	6" LED PENDANT FIXTURE (VERIFY EM BATTERY BACK-UP) *
C	PRESCOLITE	LTR-6RD-H-SL15L-DM1	120	-	LED	-	-	19	6" LED RECESSED CAN FIXTURE, WET LOCATION (VERIFY EM BATTERY BACK-UP) ** *
CF	BIG ASS	HAIKU S3127 (009785-256)	120	-	LED	-	-	51	52" CEILING FAN W/ UV-C UPLIGHTING OPTION, VERIFY COLOR *
D	COLUMBIA	LXEM4-35HL-RFA-EU	120	-	LED	-	-	47	4' ENCLOSED LED GASKETED STRIP *
F	ALCON	11249	120	-	LED	-	-	30	4' 4 LIGHT LED WAVE PENDANT *
E	COMPASS	CUSO	120	-	LED	-	-	17	EXTERIOR NORMAL/EMERGENCY LIGHT FIXTURE- COLOR BY ARCH *
EXIT	COMPASS	CER	120	-	LED	-	-	2	LED EXIT SIGN, COLOR BY ARCH *
EXIT	COMPASS	CCR	120	-	LED	-	-	4	COMBINATION EMERGENCY (TUNGSTEN)/ EXIT (LED) LIGHT *
EXIT	COMPASS	CU2HL	120	-	LED	-	-	10	EMERGENCY LIGHT, BATTERY BACKUP, BATTERY DIAGNOSTICS, COLOR BY ARCH *

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

\*\* FOR MAINTENANCE OF UNIT, FIXTURE'S DRIVER MUST BE REPLACEABLE FROM BELOW BY REMOVING FACE OF FIXTURE.

THE EMERGENCY LIGHTS AND EXIT SIGNS MUST HAVE INTEGRAL BATTERIES, CHARGERS AND TEST SWITCHES.

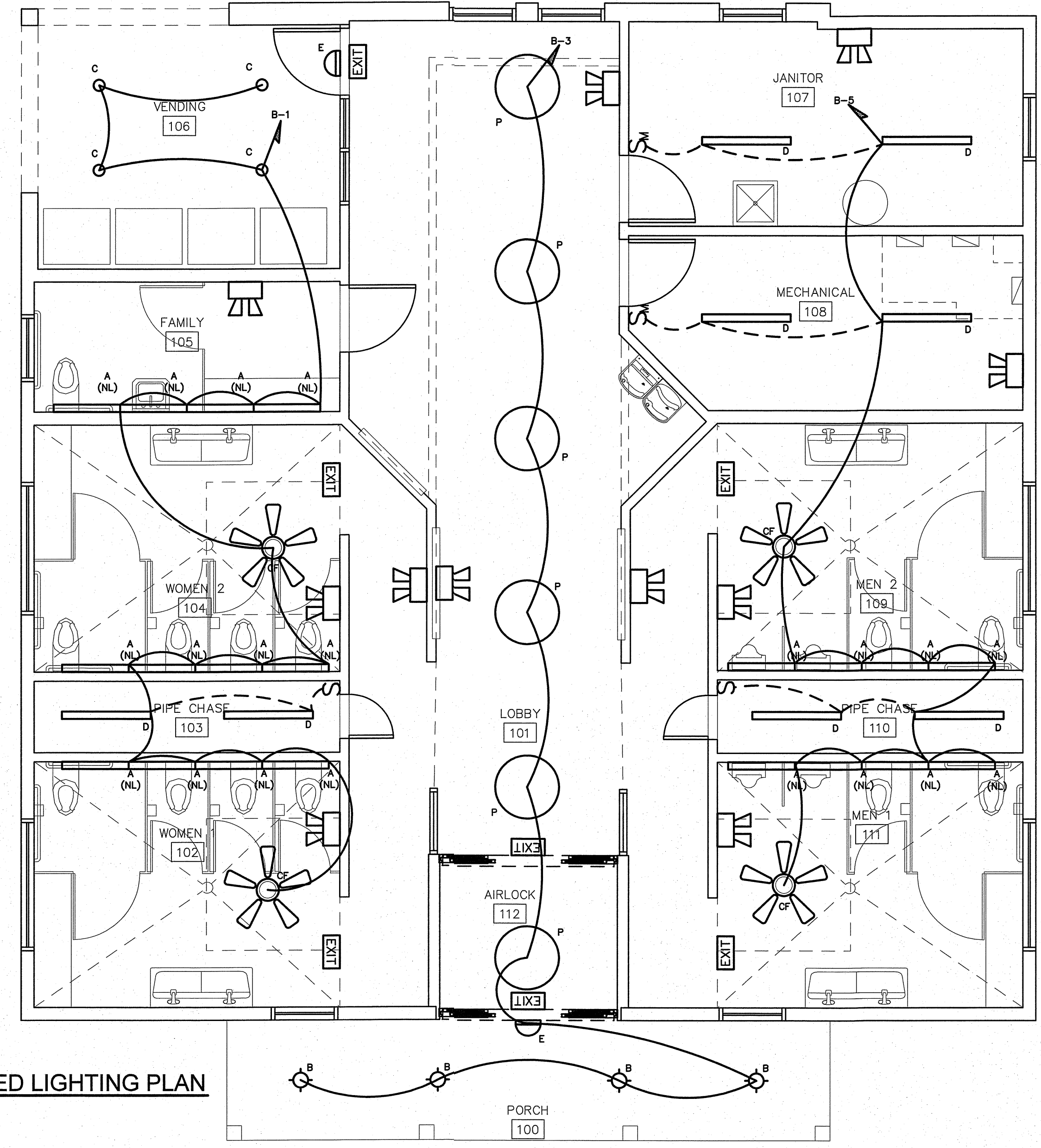
THE SCOPE OF DEMOLITION IS AS FOLLOWS:  
 REMOVE ALL LIGHTING DEVICES AND CIRCUITS BACK TO THE PANEL UNLESS OTHERWISE NOTED.  
 ALL LIGHTS NOTED AS REMAINING SHALL BE CLEANED AND RE-LAMPED.  
 REMOVE ALL DEMO'D LIGHT FIXTURES AND PROPERLY DISPOSE OF ALL FIXTURES, BALLASTS, ETC.  
 REFEED ANY DEVICES REMAINING DOWN LINE FROM REMOVED DEVICE.  
 REMOVE ALL WIRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.  
 ALL NEW CIRCUITS WILL BE FED FROM EXISTING PANEL(S).

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.

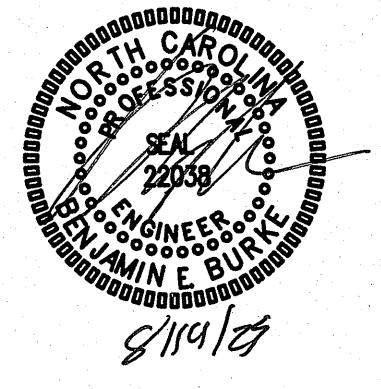
VERIFY HEIGHT/LOCATION OF ALL SWITCHES AND DEVICES PRIOR TO INSTALLATION.



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



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 CONSULTING ENGINEERS  
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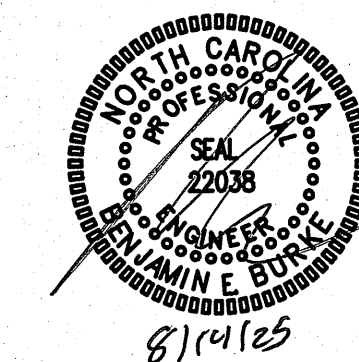
PROJECT TITLE  
 DARE COUNTY  
 REST AREA (US-64)  
 VISITORS CENTER CIRCLE  
 MANTEO, NORTH CAROLINA

PROJECT NO.  
 2404b  
 DRAWING TITLE  
 PROPOSED POWER PLAN

E3

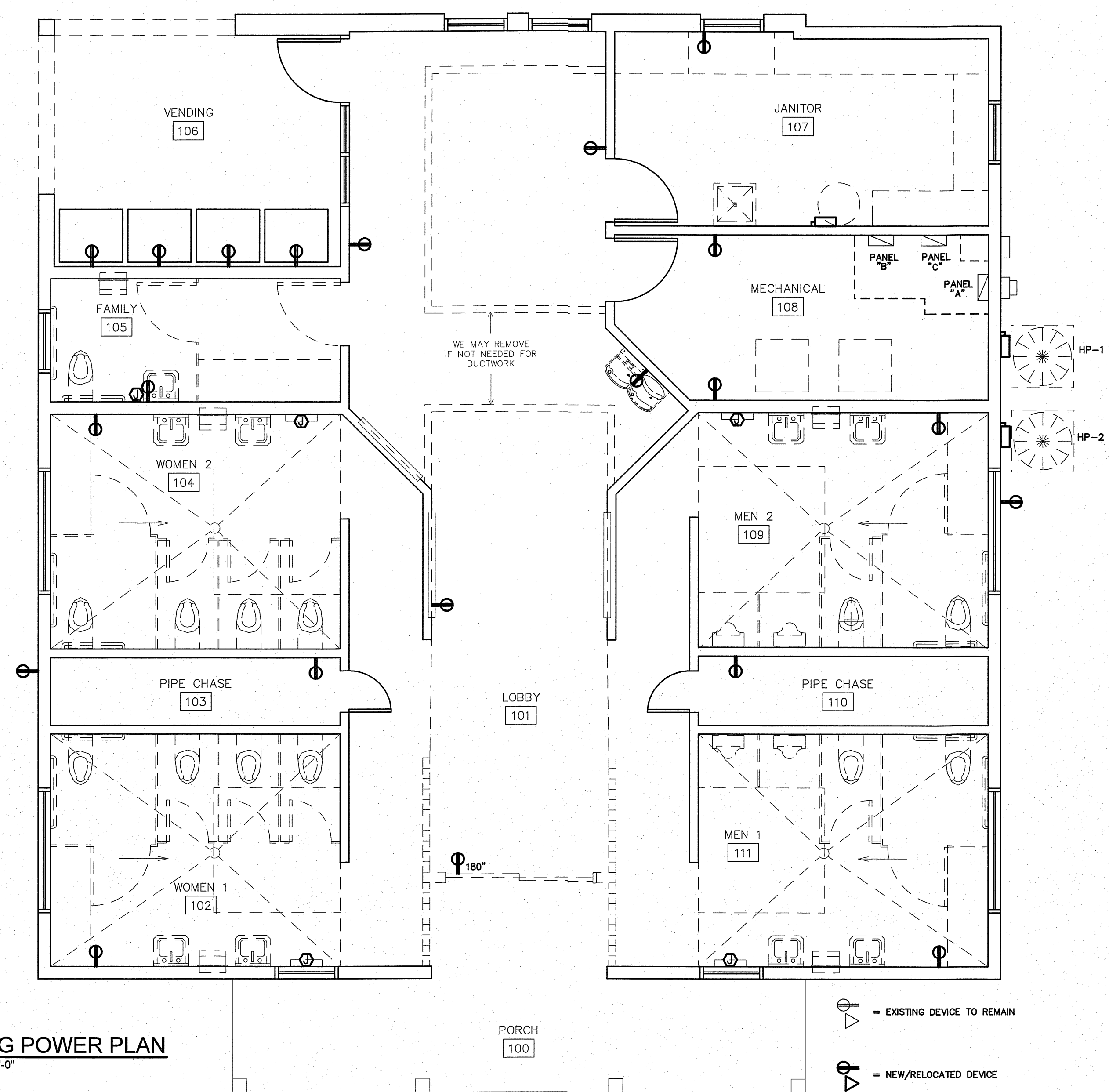
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NOTE:  
 THE INFORMATION SHOWN ON THIS DRAWING IS FROM PREVIOUS PERMIT DRAWINGS AND FIELD INVESTIGATION.  
 THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND FIELD VERIFYING ALL RELEVANT INFORMATION.  
 THE SUBMISSION OF A BID INDICATES ACCEPTANCE 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 WRING AND CONDUITS BACK TO CONCEALED JUNCTION POINT.



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

◻ = EXISTING DEVICE TO REMAIN  
 ◻ = NEW/RELOCATED DEVICE

SCO#25-29818-01A

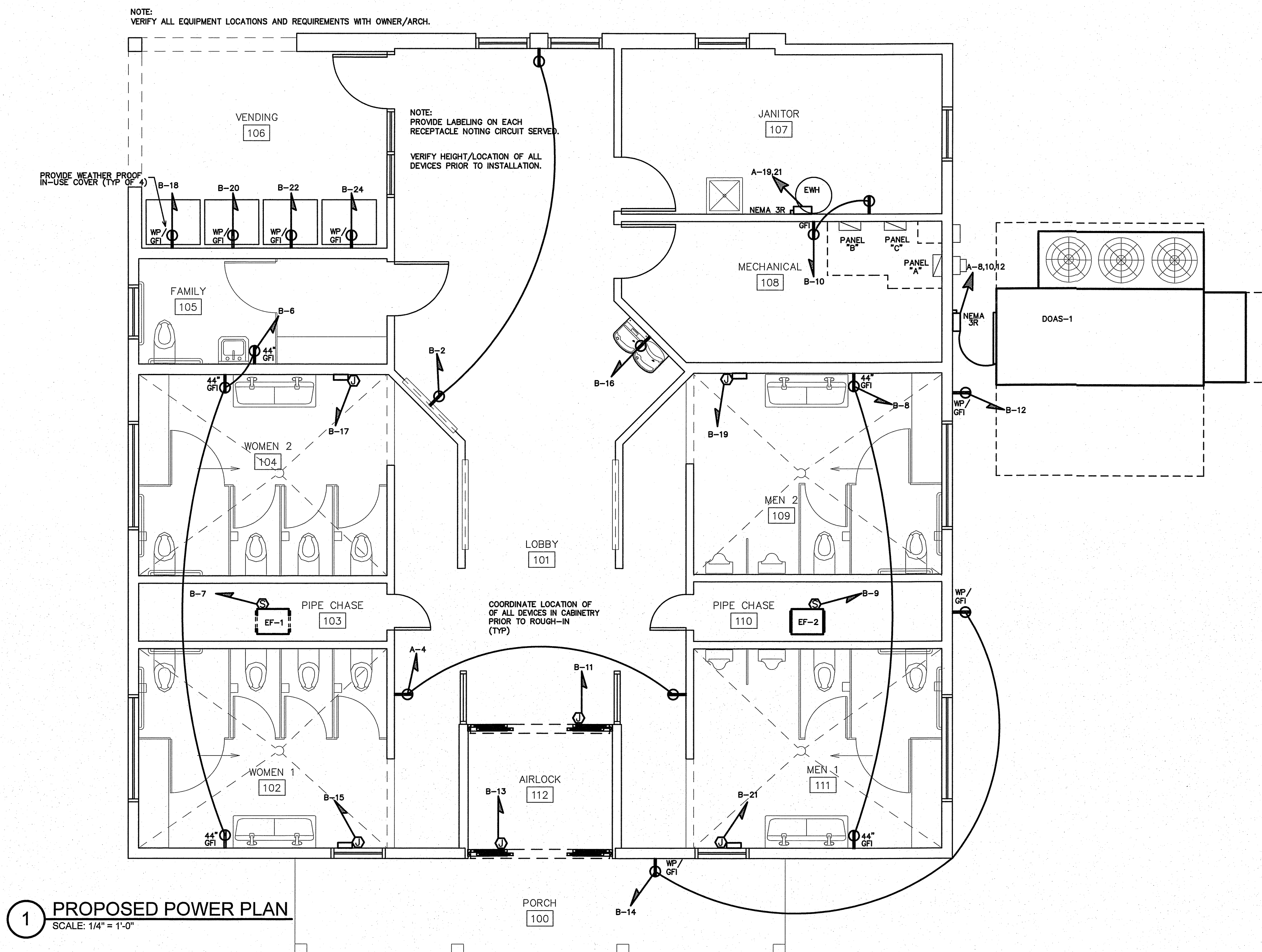
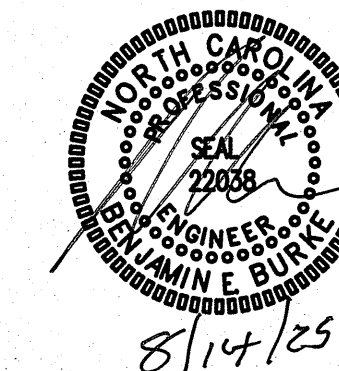
PROJECT TITLE  
**DARE COUNTY**  
**REST AREA (US-64)**  
 VISITORS CENTER CIRCLE  
 MANTEO, NORTH CAROLINA

PROJECT NO.  
**2404b**  
 DRAWING TITLE  
**EXISTING POWER PLAN**

**E4**

PLOT DATE 08/14/2025

This original sheet is 24" x 36"; other dimensions indicate if has been altered.  
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SCO#25-29818-01A

PROJECT TITLE  
DARE COUNTY  
REST AREA (US-64)  
VISITORS CENTER CIRCLE  
MANTEO, NORTH CAROLINA

PROJECT NO.  
2404b  
DRAWING TITLE  
PROPOSED LIGHTING PLAN

E5

PLOT DATE 08/14/2025

This original sheet is 24" x 36", other dimensions indicate it has been altered.  
All information on this sheet is the property of W. S. Architects, PA and may not be duplicated in whole or in part without written authorization from W. S. Architects, PA. 2025

EXISTING PANEL 'A'		MAKE: SIEMENS			RATING: 208/120V 3 PHASE 4 WIRE			400A MAIN CIRCUIT BREAKER			
		TYPE: VERIFY			MOUNTING: SURFACE			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
		MINIMUM AIC: VERIFY			SERVICE ENTRY RATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	CKT BRKR	LOAD SERVICE			
SPARE	--A		1		2			SITE LIGHTING PANEL			
			3		4						
			5		6						
PANEL 'B'	225A		7		8			SPARE			
			9		10			--A			
			11		12						
STORAGE SHED	60A		13		14			50A	HEAT PUMP #2		
			15		16						
			17		18				SPACE		
WATER HEATER	50A		19		20			50A	HEAT PUMP #1		
			21		22						
SPARE	30A		23		24			30A	SPARE		
SPACE			25		26			60A	AHU #1		
SPACE			27		28						
SPACE			29		30				SPACE		
SPACE			31		32			20A	SPARE		
SPACE			33		34			60A	AHU #2		
SPACE			35		36						
SPACE			37		38			20A	HAND DRYER		
SPACE	20A		39		40			20A	HAND DRYER		
HAND DRYER	20A		41		42			20A	HAND DRYER		
SPACE	20A		43		44			20A	HAND DRYER		
CIRC PUMP	20A		45		46			20A	HU-SA		
SPACE	20A		47		48			20A	HU-RA		
SPACE	20A										
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 --A			AMPS/PHASE		

EXISTING PANEL 'A'		MAKE: SIEMENS			RATING: 208/120V 3 PHASE 4 WIRE			400A MAIN CIRCUIT BREAKER			
		TYPE: VERIFY			MOUNTING: SURFACE			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
		MINIMUM AIC: VERIFY			SERVICE ENTRY RATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	CKT BRKR	LOAD SERVICE			
SPARE	--A		1		2	9600		SITE LIGHTING PANEL			
			3		4	9600					
			5		6	9600					
PANEL 'B'	225A	4790	7		8	8100		DOAS-1			
		5108	9		10	8100		(FUSE DISC. @175A)			
			11		12	8100					
STORAGE SHED	60A	5760	13		14			50A	SPARE		
			15		16						
		5760	17		18				SPACE		
WATER HEATER	50A	4500	19		20			50A	SPARE		
		4500	21		22						
SPARE	30A		23		24			30A	SPARE		
SPACE			25		26			60A			
SPACE			27		28				SPACE		
SPACE			29		30				SPACE		
SPACE			31		32			20A	SPACE		
SPACE			33		34			60A	SPACE		
SPACE			35		36						
SPACE	20A		37		38			20A	SPACE		
SPACE	20A		39		40			20A	SPACE		
SPACE	20A		41		42			20A	SPACE		
SPACE	20A		43		44			20A	SPACE		
CIRC PUMP	20A	1920	45		46	1920		20A	HU-SA		
SPACE	20A		47		48			20A	HU-RA		
SPACE	20A					1920					
NOTES	SUB-TOTALS 'B'		400A BUS			SUB-TOTALS 'A'			TOTAL CONNECTED LOAD		
			400A LUGS			SUB-TOTALS 'B'					
			400A FEED			GRAND TOTAL					
			VERIFY SIZE			289A 292A 258A			AMPS/PHASE		

NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY					
		LOAD TYPE	DEMAND FACTOR	A	B	C	TOTAL DIVERSIFIED LOAD
1	DEMAND FACTORS PER NEC 220	GENERAL LIGHTING	125%	888	225	978	2091
2	LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD	TRACK LIGHTING	125%				
3	NEC TABLE 220.56	GENERAL USE RECEPTACLES	100%	1080	540	720	2340
4	NEC 220.51	MOTORS AND EQUIPMENT	125%	4470	4470	4470	13410
5	NEC 220.43A, 200 VA/LINEAR FT	WATER HEATERS	125%	5625	5625		11250
6	NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED	KITCHEN EQUIPMENT	100%				
		FIX. ELEC. SPACE HEAT.	100%				
		SHOW WINDOW LIGHTS	125%				
		SIGN	125%				
		MISC	100%	15360	18168	17280	50808
		PHASE (TOTAL VA)		36887	37052	31972	105911
		TOTAL AMPS		308A	309A	267A	
				VOLT AMPS = 295A			TOTAL AMPS
				VOLTS X 1.732			

EXISTING PANEL 'B'		MAKE: SIEMENS			RATING: 208/120V 3 PHASE 4 WIRE			MLO MAIN CIRCUIT BREAKER			
		TYPE: TYPE-1			MOUNTING: SURFACE			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
		MINIMUM AIC: VERIFY			SERVICE ENTRY RATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	CKT BRKR	LOAD SERVICE			
EXISTING	20A		1		2			20A	EXISTING		
EXISTING	20A		3		4			20A	EXISTING		
EXISTING	20A		5		6			20A	EXISTING		
EXISTING	20A		7		8			20A	EXISTING		
EXISTING	20A		9		10			20A	EXISTING		
EXISTING	20A		11		12			20A	EXISTING		
EXISTING	20A		13		14			20A	EXISTING		
EXISTING	20A		15		16			20A	EXISTING		
EXISTING	20A		17		18			20A	EXISTING		
EXISTING	20A		19		20			20A	EXISTING		
EXISTING	20A		21		22			20A	EXISTING		
EXISTING	20A		23		24			20A	EXISTING		
EXISTING	20A		25		26			20A	EXISTING		
EXISTING	20A		27		28			20A	EXISTING		
EXISTING	20A		29		30			20A	EXISTING		
EXISTING	20A		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'			TOTAL CONNECTED LOAD		
			225A LUGS			SUB-TOTALS 'B'					
			225A FEED			GRAND TOTAL					
			VERIFY SIZE			--A --A --A			AMPS/PHASE		

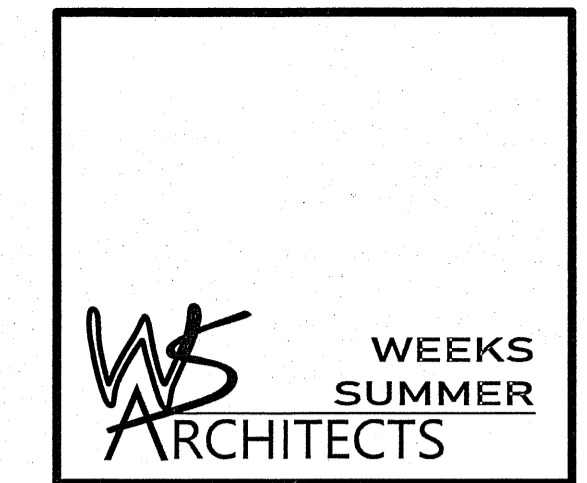
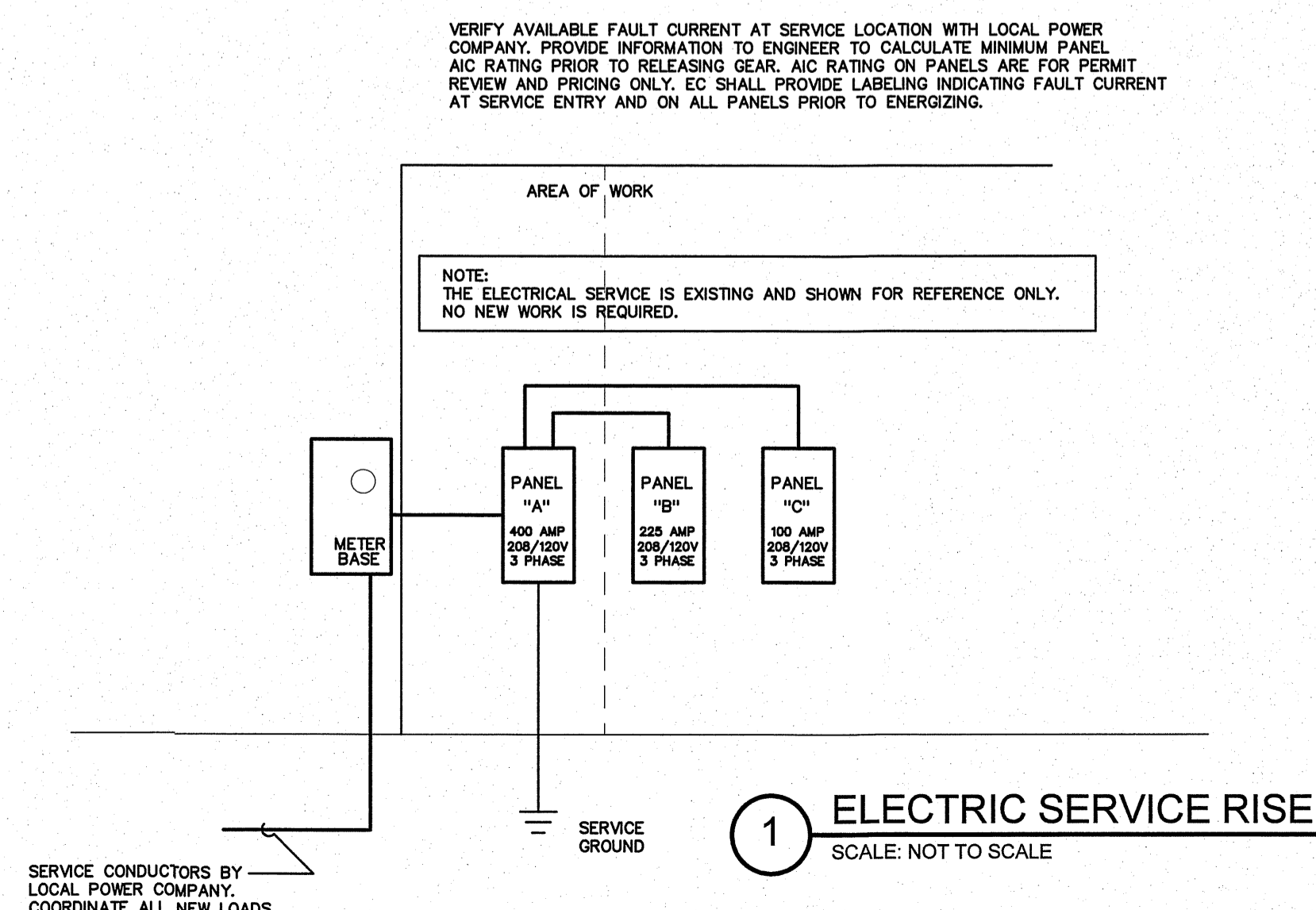
REVISED PANEL 'B'		MAKE: SIEMENS			RATING: 208/120V 3 PHASE 4 WIRE			MLO MAIN CIRCUIT BREAKER			
		TYPE: TYPE-1			MOUNTING: SURFACE			EQUIPMENT GROUND BUS <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO			
		MINIMUM AIC: VERIFY			SERVICE ENTRY RATED <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO						
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B C	CKT NO	NEUTRAL A B C	CKT NO	WATTS PER PHASE A B C	CKT BRKR	LOAD SERVICE			
(S) LTS- WOMENS SIDE	20A	710	1		2	360		20A	REC- GENERAL		
(S) LTS- CENTER	20A	180	3		4	360		20A	REC- GENERAL		
(S) LTS- MENS SIDE	20A		5		6	540		20A	REC- WOMENS		
EF-1	20A	500	7		8	360		20A	REC- MENS		
EF-2	20A		9		10	180		20A	REC- MECHANICAL		
MOTION DOORS	20A		11		12	180		20A	REC- EXTERIOR		
MOTION DOORS	20A	250	13		14	360		20A	REC- EXTERIOR		
(G) HAND DRYER	20A	750	15		16	888		20A	EWV		
(G) HAND DRYER	20A		17		18	1500		20A	VENDING MACHINE		
(G) HAND DRYER	20A	750	19		20	1500		20A	VENDING MACHINE		
(G) HAND DRYER	20A	750	21		22	1500		20A	VENDING MACHINE		
SPARE	20A		23		24	1500		20A	VENDING MACHINE		
SPARE	20A		25		26			20A	SPACE		
SPARE	20A		27		28			20A	SPACE		
SPARE	20A		29		30			20A	SPACE		
SPARE	20A		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'			TOTAL CONNECTED LOAD		
	EXISTING CIRCUIT		225A LUGS			SUB-TOTALS 'B'					
	NEW/REVISED CIRCUIT		225A FEED			GRAND TOTAL					
	GFCI BREAKER		225A FEED			GRAND TOTAL					
	SWITCH RATED BREAKER		VERIFY SIZE			40A 43A 48A			AMPS/PHASE		

NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY					
		LOAD TYPE	DEMAND FACTOR	A	B	C	TOTAL DIVERSIFIED LOAD
1	DEMAND FACTORS PER NEC 220	GENERAL LIGHTING	125%	888	225	978	2091
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4	NEC 220.51	MOTORS AND EQUIPMENT	125%	4470	4470	4470	13410
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		FIX. ELEC. SPACE HEAT.	100%				
		SHOW WINDOW LIGHTS	125%				
		SIGN	125%				
		MISC	100%	15360	18168	17280	50808
		PHASE (TOTAL VA)		36887	37052	31972	105911
		TOTAL AMPS		308A	309A	267A	
				VOLT AMPS = 295A			TOTAL AMPS
				VOLTS X 1.732			

EQUIPMENT WIRING SCHEDULE					
EQUIPMENT	MCA	MOCP	VOLTS	PH	WIRE SIZE
DOAS-1	186A	175A	208V	3	4-#5/0, 1-#6 GND, IN 2 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.



ENGINEER  
**W.S. ARCHITECTS**  
 BLUIKE DESIGN GROUP, PA  
 CONSULTING ENGINEERS  
 3305-109 Durham Drive  
 Raleigh, North Carolina 27603  
 919.771.1916 fax: 919.

DARE COUNTY VISITOR CENTER  
LANDSCAPE IMPROVEMENT PROJECT  
RESTROOM AREA

COVER SHEET	L1
SITE PLAN / LIMIT OF WORK	L2
RESTROOMS DEMOLITION PLAN	L3
AREA OF IMPROVEMENT	L4
AREA A IMPROVEMENT PLAN	L5
AREA B IMPROVEMENT PLAN	L6
AREA C IMPROVEMENT PLAN	L7
CONSTRUCTION DETAILS	L8
PLANTING DETAILS	L9

**SUMMARY OF LANDSCAPE IMPROVEMENT QUANTITIES**

QTY.	UNIT	KEY	BOTANICAL NAME	COMMON NAME	CONDITIONS	REMARKS
------	------	-----	----------------	-------------	------------	---------

**Plant Materials**

1	EA	SM	<i>Magnolia Virginiana</i>	Sweetbay Magnolia	25 Gallon, 7' to 8' High	
7	EA	BJ	<i>Juniperus Virginiana</i>	Burkii Juniper Red Cedar	15 Gallon, 5' to 6' High	
3	EA	RD	<i>Cecis Canadensis 'Forset Pansey'</i>	Forest Pansey Redbud	15 Gallon, 5' to 6' High	
1	EA	LG	<i>Magnolia Virginiana</i>	Little Gem Magnolia	25 Gallon, 6' to 7' High	
42	EA	JV	<i>Little Henry Sweetspire (Itea)</i>	Itea Virginica 'Spirch'	3 Gallon, 14" to 18" High	
25	EA	PV	<i>Panicum Virgatum 'Northwind'</i>	Upright Switchgrass	3 Gallon, 18" to 24" High	
19	EA	PVP	<i>Panicum Virgatum 'Purple Tears'</i>	Purple Tears Switchgrass	3 Gallon, 18" to 24" High	
26	EA	DY	<i>Ilex Vomitoria 'Dwarf'</i>	Dwarf Yaupon Holly	3 Gallon, 12" to 14" High	
74	EA	BES	<i>Rudbeckia Hirta</i>	Black-eye Susan	1 Gallon, 1' O.C.	

**Descriptions**

6	EA	SP	Small Boulder		See Site Plans/Details
10	EA	SP	Medium Boulder		See Site Plans/Details
5	EA	SP	Large Boulder		See Site Plans/Details
9	CY	SP	River Rock		See Site Plans
50	CY	1670	Mulch for Planting		See Site Plans/Details
140	LF	SP	Steel Edging		See Site Plans
10	CY	SP	Topsoil		
150	SY	1670	Post Emergence Plant Bed Herbicide Treatment		
150	SY	1670	Pre Emergence Plant Bed Herbicide Treatment		
1	Lump Sum	SP	Flagpole		See Detail Sheet
1	Lump Sum	SP	Up-Lights		See Detail Sheet
1	Lump Sum	SP	Expansion Joints		See Detail Sheet
1	Lump Sum	1650	Selective Tree Removal 3` VHWMS[a`		
6	MG	1670	Water for Planting		



NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
AESTHETIC ENGINEERING SECTION  
1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557  
PH: 919-707-2935 FAX: 919-715-2554

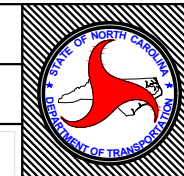
Dare County Visitor Center  
Landscape Improvement Project Restroom Area  
Manteo, North Carolina



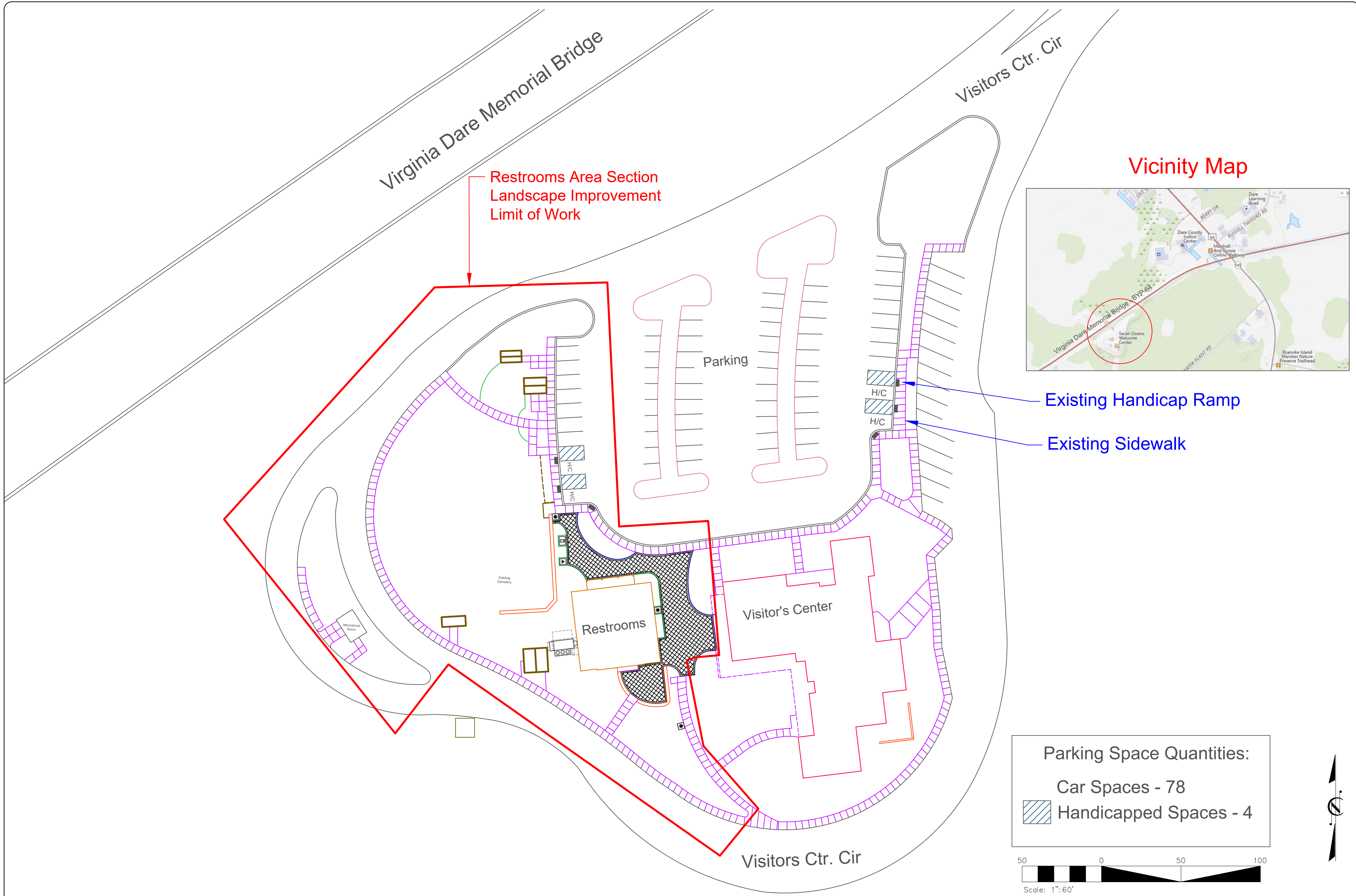
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PREL. DESIGN DATE:	06.15.2025
FINAL DESIGN DATE:	08.15.2025
LANDSCAPE ARCHITECT:	Azad Atashi

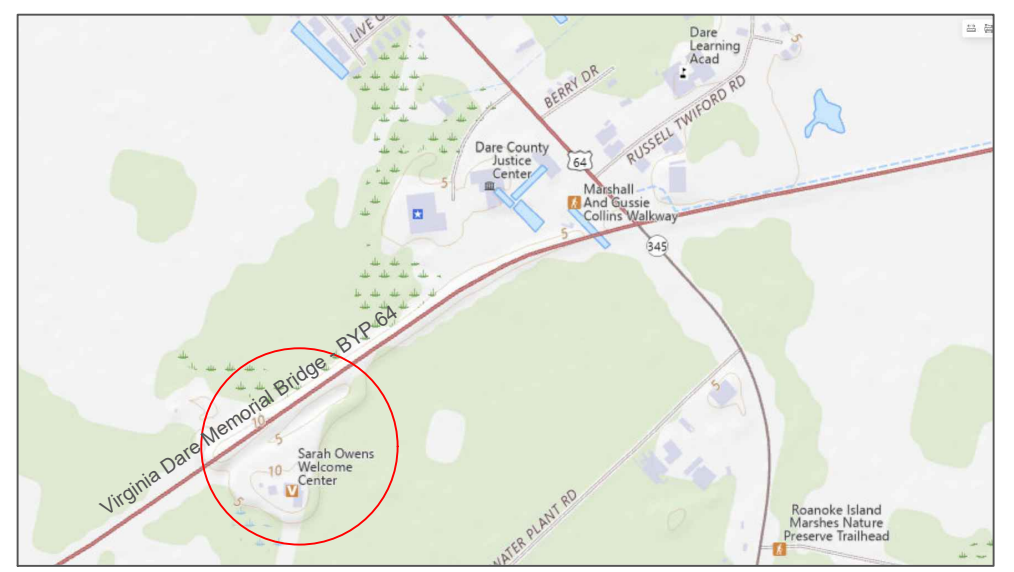
Cover Sheet	
Scale:	
PROJECT TEAM:	Taylor Dunston



T.I.P. #	-----
WBS #	15RE.22.1
FED I.D. #	-----
SHEET NO.:	L-1
TOTAL SHEET NO.:	L-9

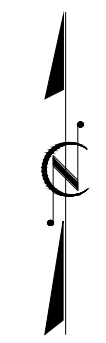


Vicinity Map



Existing Handicap Ramp  
Existing Sidewalk

**Parking Space Quantities:**  
 Car Spaces - 78  
 Handicapped Spaces - 4



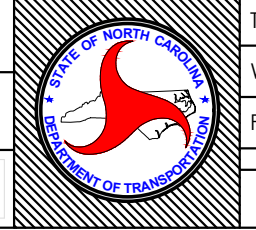
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 AESTHETIC ENGINEERING SECTION  
 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557  
 PH: 919-707-2935 FAX: 919-715-2554

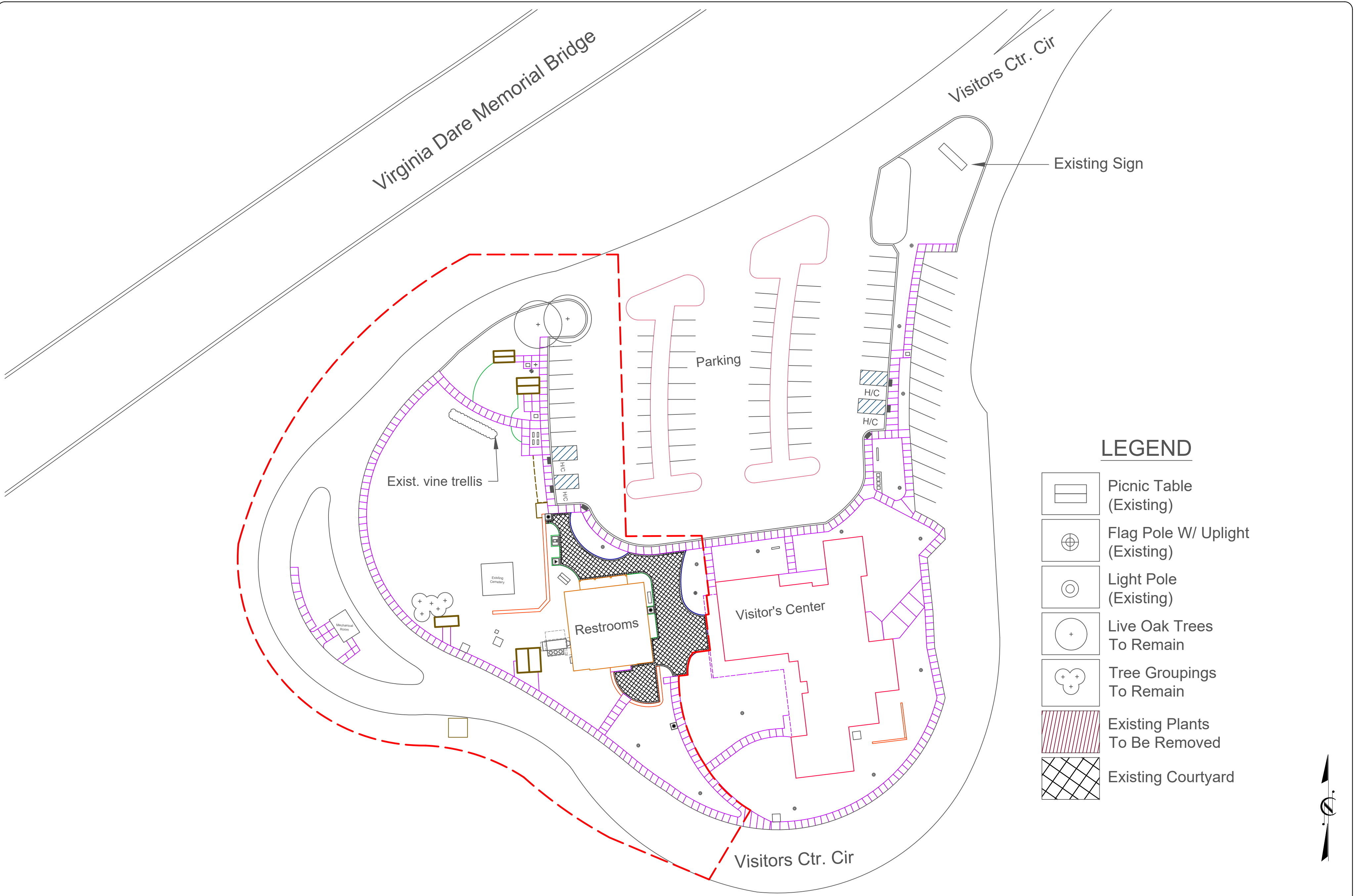
Dare County Rest Area (US. 64)  
 Landscape Improvement Project Restrooms Area  
 Manteo, North Carolina

PREL. DESIGN DATE: 06.15.2025  
 FINAL DESIGN DATE: 08.15.2025  
 LANDSCAPE ARCHITECT: Azad Atashi



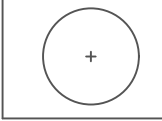


Site Plan/Limit of Work  
 Scale: 1" = 60'-0"  
 PROJECT TEAM: Taylor Dunston

T.I.P. # -----	
WBS # 15RE.22.1	
FED I.D. # -----	
SHEET NO. : L-2	TOTAL SHEET NO. : L-9





**LEGEND**

-  Picnic Table (Existing)
-  Flag Pole W/ Uplight (Existing)
-  Light Pole (Existing)
-  Live Oak Trees To Remain
-  Tree Groupings To Remain
-  Existing Plants To Be Removed
-  Existing Courtyard

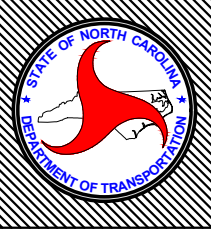


NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
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 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557  
 PH: 919-707-2935 FAX: 919-715-2554

Dare County Visitor Center  
 Landscape Improvement Project Restrooms Area  
 Manteo, North Carolina

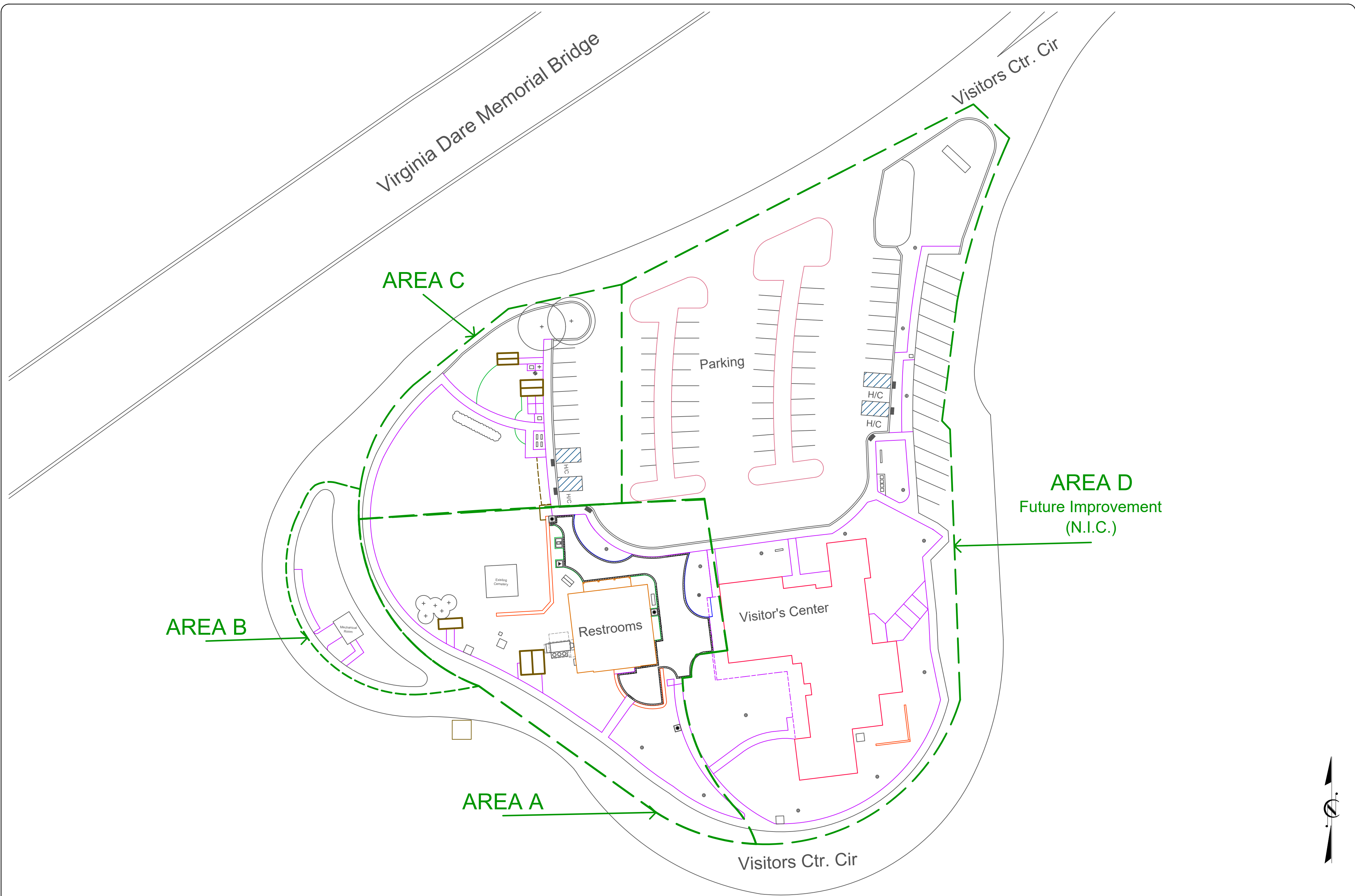
PREL. DESIGN DATE: 06.15.2025  
 FINAL DESIGN DATE: 08.15.2025  
 LANDSCAPE ARCHITECT: Azad Atashi


Restroom Demolition Plan  
 Scale: 1' = 60'-0"  
 PROJECT TEAM: Taylor Dunston



T.I.P. #	-----
WBS #	15RE.22.1
FED I.D. #	-----
SHEET NO.:	TOTAL SHEET NO.:
L-3	L-9



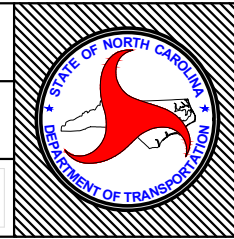



 NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
 AESTHETIC ENGINEERING SECTION  
 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557  
 PH: 919-707-2935 FAX: 919-715-2554

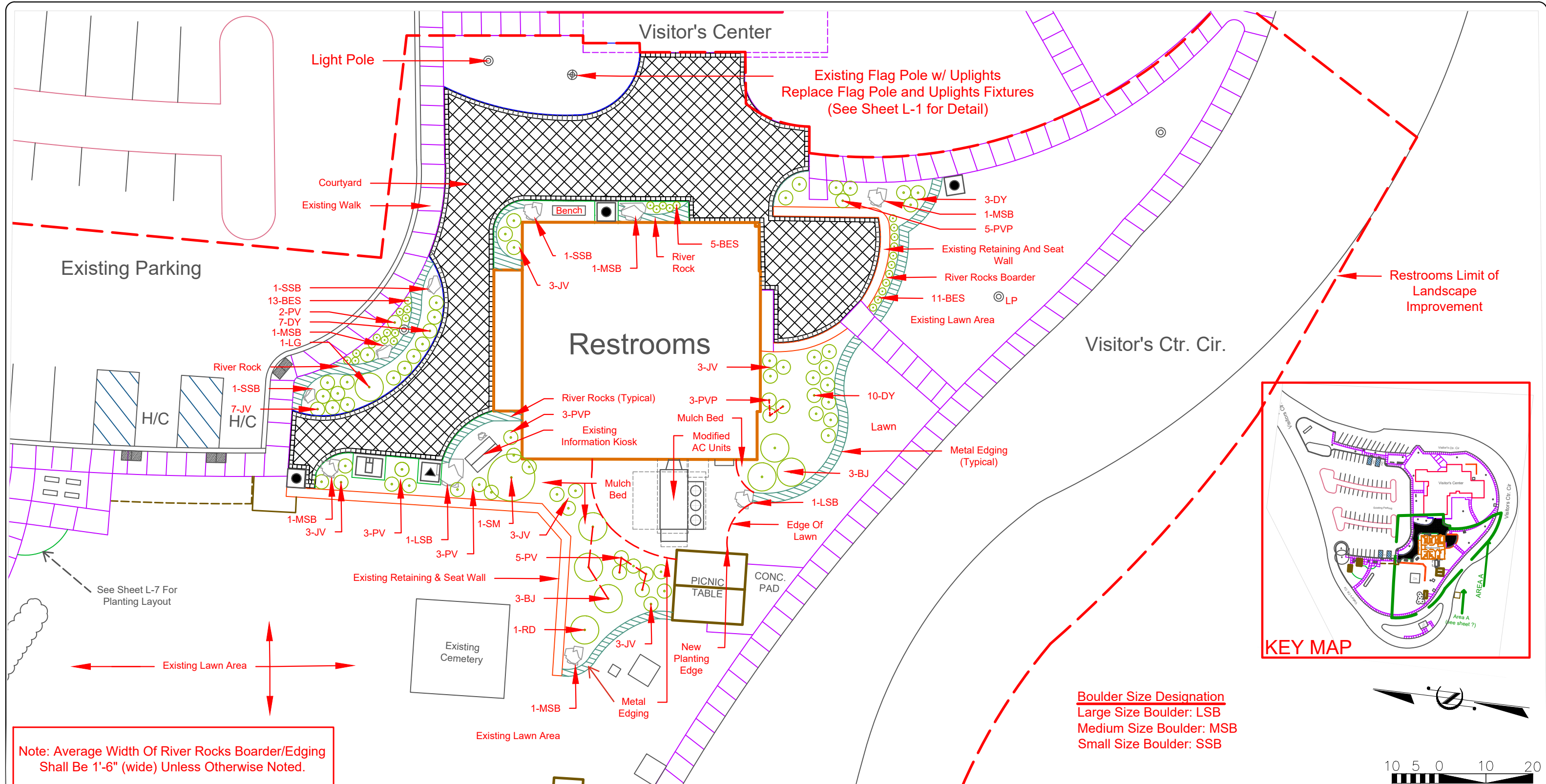
Dare County Rest Area (US. 64)  
 Landscape Improvement Project Restrooms Area  
 Manteo, North Carolina

PREL. DESIGN DATE: 06.15.2025  
 FINAL DESIGN DATE: 08.15.2025  
 LANDSCAPE ARCHITECT: Azad Atashi

Area of Improvement  
 Scale: 1' = 60'-0"  
 PROJECT TEAM: Taylor Dunston

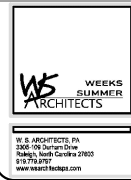


T.I.P. #	-----
WBS #	15RE.22.1
FED I.D. #	-----
SHEET NO.:	TOTAL SHEET NO.:
L-4	L-9



Note: Average Width Of River Rocks Boarder/Edging Shall Be 1'-6" (wide) Unless Otherwise Noted.

**Boulder Size Designation**  
 Large Size Boulder: LSB  
 Medium Size Boulder: MSB  
 Small Size Boulder: SSB



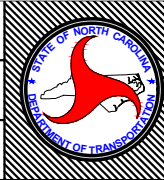
NCDOT - ROADSIDE ENVIRONMENTAL UNIT  
 AESTHETIC ENGINEERING SECTION  
 1557 MAIL SERVICE CENTER RALEIGH NC 27699-1557  
 PH: 919-707-2935 FAX: 919-715-2554

Dare County Rest Area (US. 64)  
 Landscape Improvement Project Restroom Area  
 Manteo, North Carolina

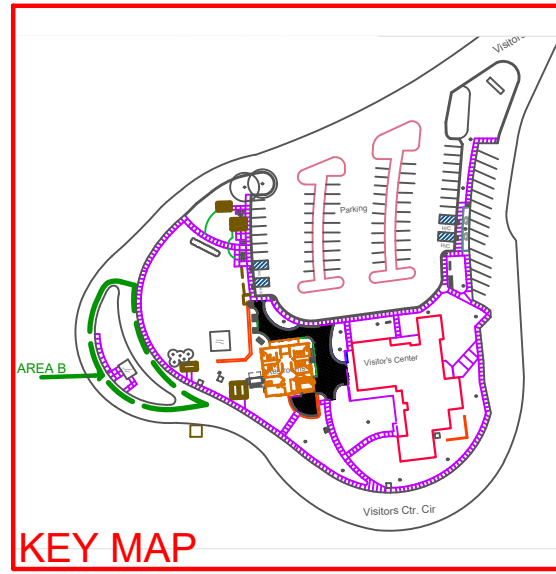


PREL. DESIGN DATE:	06.15.2025
FINAL DESIGN DATE:	08.15.2025
LANDSCAPE ARCHITECT:	Azad Atashi

Area A Improvement Plan	
Scale: 1' = 20'-0"	
PROJECT TEAM:	Taylor Dunston



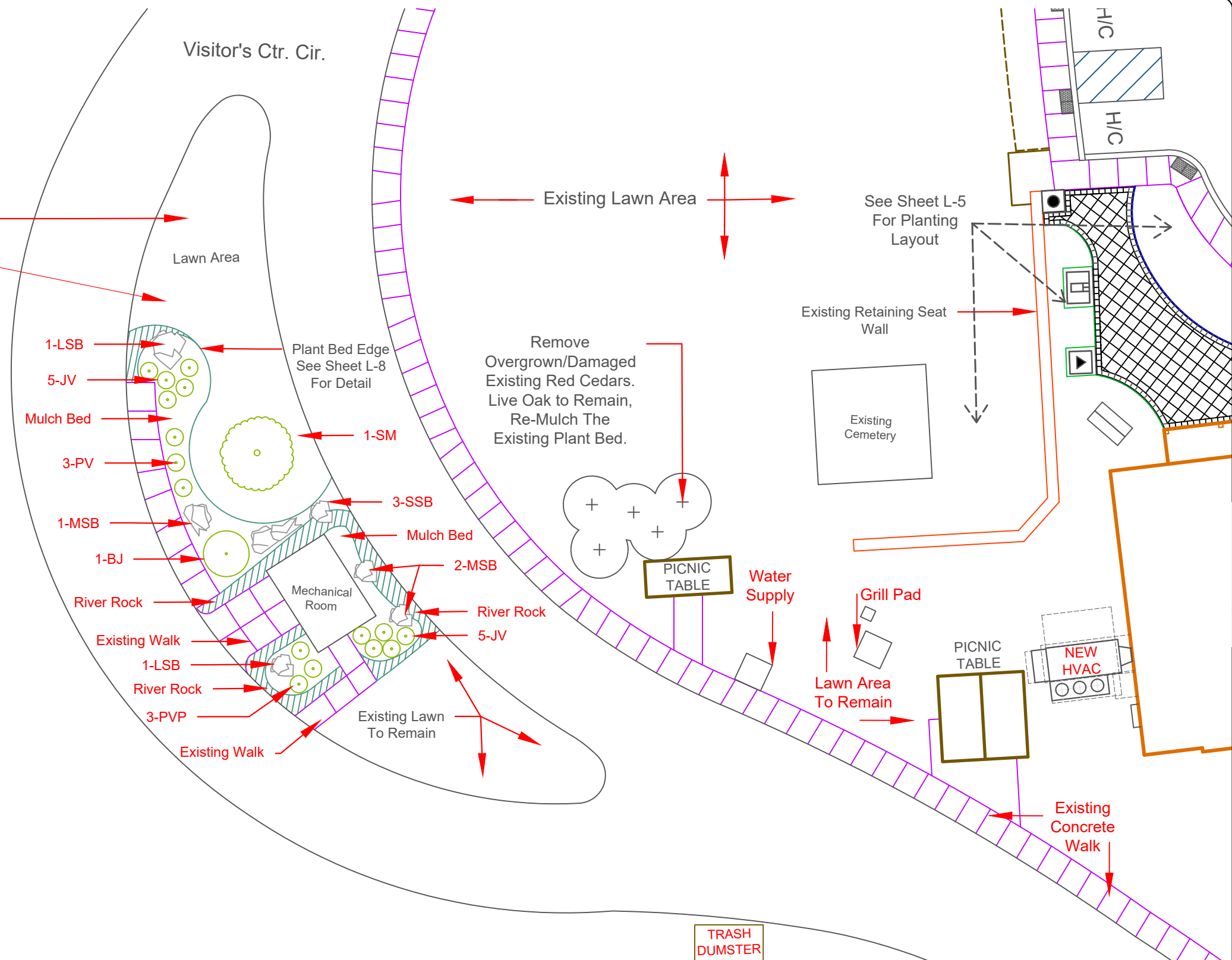
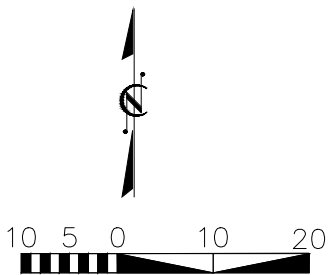
T.I.P. #	-----
WBS #	15RE.22.1
FED I.D. #	-----
SHEET NO.:	L-5
TOTAL SHEET NO.:	L-9




KEY MAP

Existing Lawn Area To Remain And Modified to Proposed New Planting Bed As Shown.

**Boulder Size Designation**  
 Large Size Boulder: LSB  
 Medium Size Boulder: MSB  
 Small Size Boulder: SSB




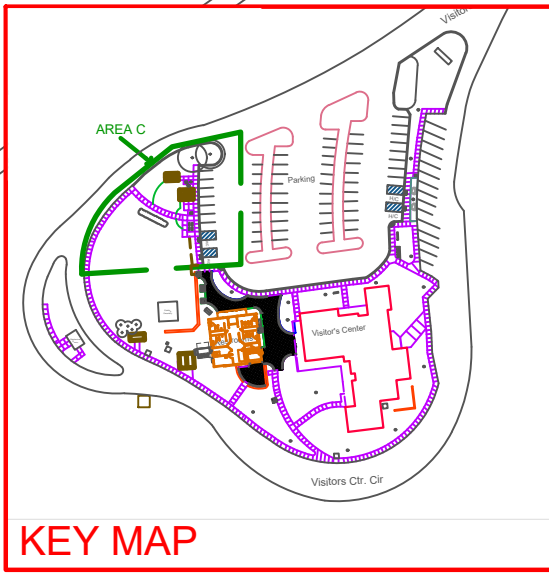
TRASH DUMSTER

  
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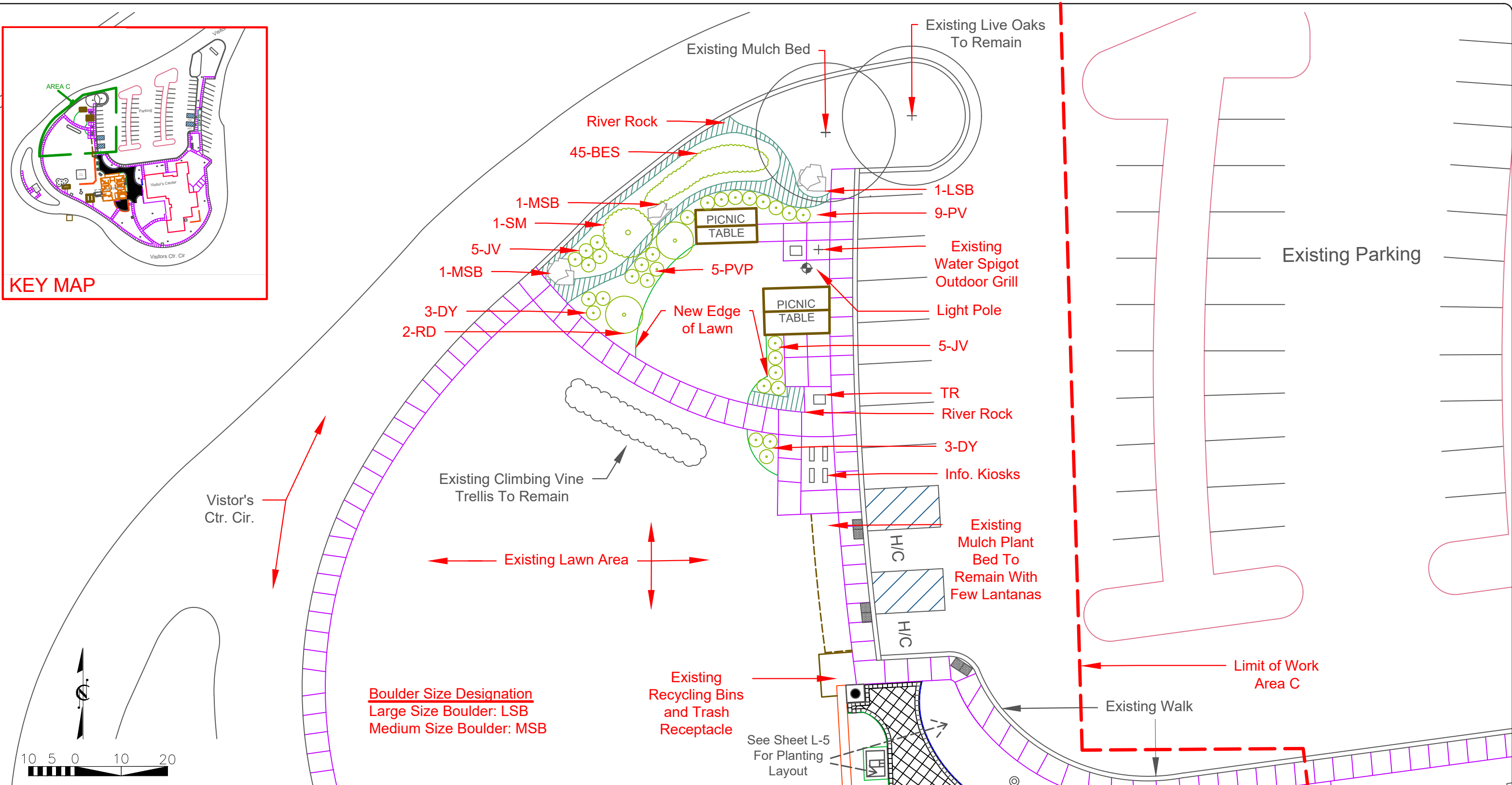
Dare County Rest Area (US. 64)  
 Landscape Improvement Project Restroom Area  
 Manteo, North Carolina

SHEET DESCRIPTION:	PREL. DESIGN DATE:	06.15.2025	Area B Improvement Plan
	FINAL DESIGN DATE:	08.15.2025	Scale: 1' = 20'-0"
LANDSCAPE ARCHITECT:	Azad Atashi	PROJECT TEAM:	Taylor Dunston

  
 T.I.P. # -----  
 WBS # 15RE.22.1  
 FED I.D. # -----  
 SHEET NO: L-6 TOTAL SHEET NO: L-9



KEY MAP



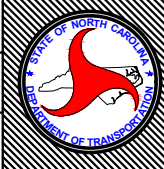
**Boulder Size Designation**  
 Large Size Boulder: LSB  
 Medium Size Boulder: MSB

W.S. WEIGER ARCHITECTS  
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Dare County Rest Area (US. 64)  
 Landscape Improvement Project Restroom Area  
 Manteo, North Carolina

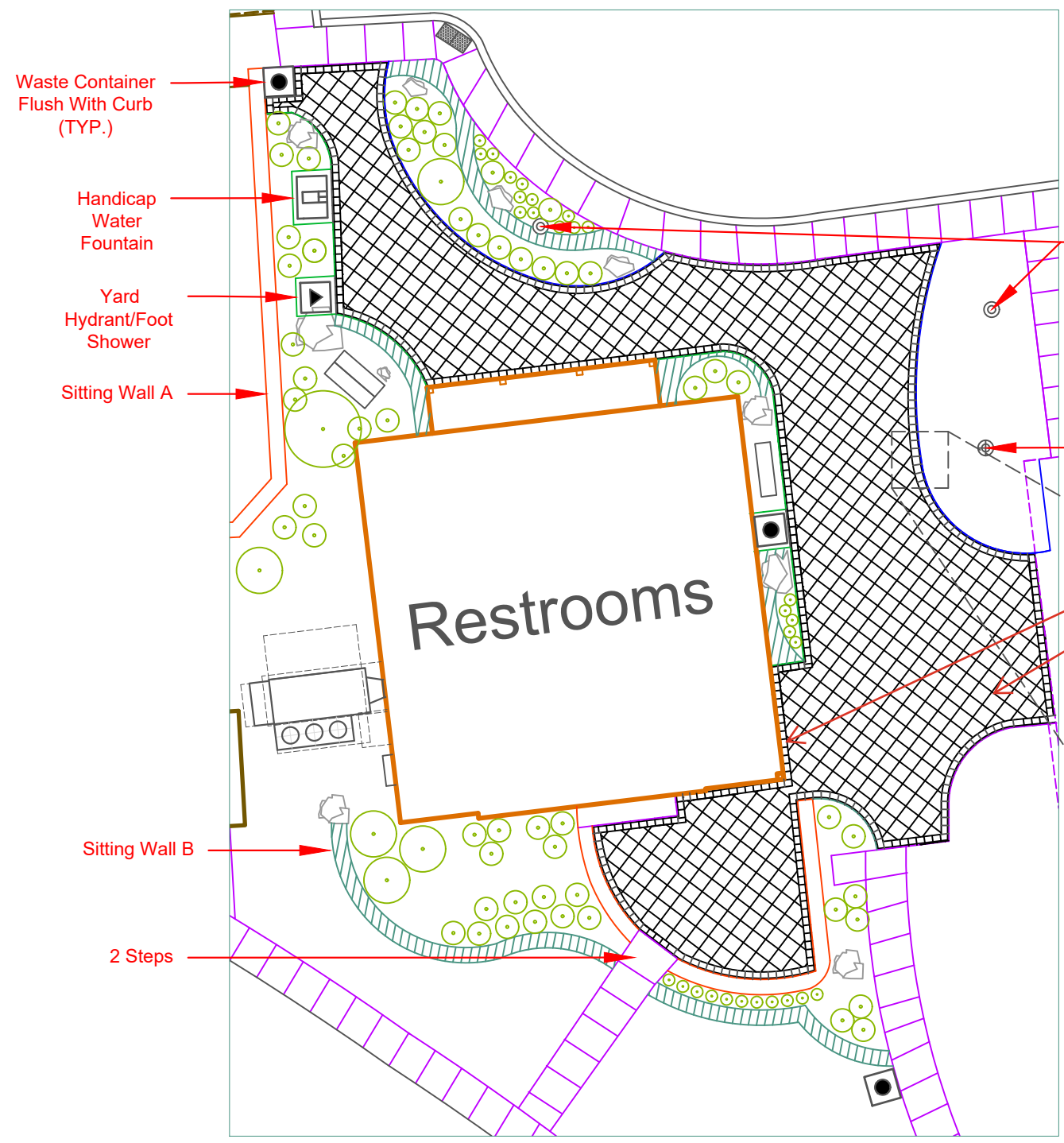
PREL. DESIGN DATE:	06.15.2025
FINAL DESIGN DATE:	08.15.2025
LANDSCAPE ARCHITECT:	Azad Atashi

Area C Improvement Plan	
Scale: 1' = 20'-0"	
PROJECT TEAM:	Taylor Dunston



T.I.P. #	-----
WBS #	15RE.22.1
FED I.D. #	-----
SHEET NO.:	L-7
TOTAL SHEET NO.:	L-9

**Courtyard Detail**  
1":20'

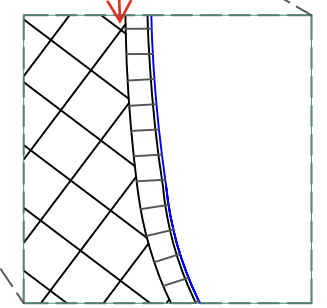


Notes: Replace the existing Flagpole as shown in Section Elevation Plan.  
For in-Ground Lighting: Inspect the lighting fixtures & electrical wiring for performance and quality. Replace the fixtures as required per approval of the Engineer regarding type & wattage.

Lightpole

Flagpole with In-Ground Lighting ( See Note Above)

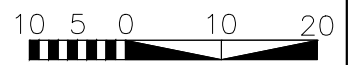
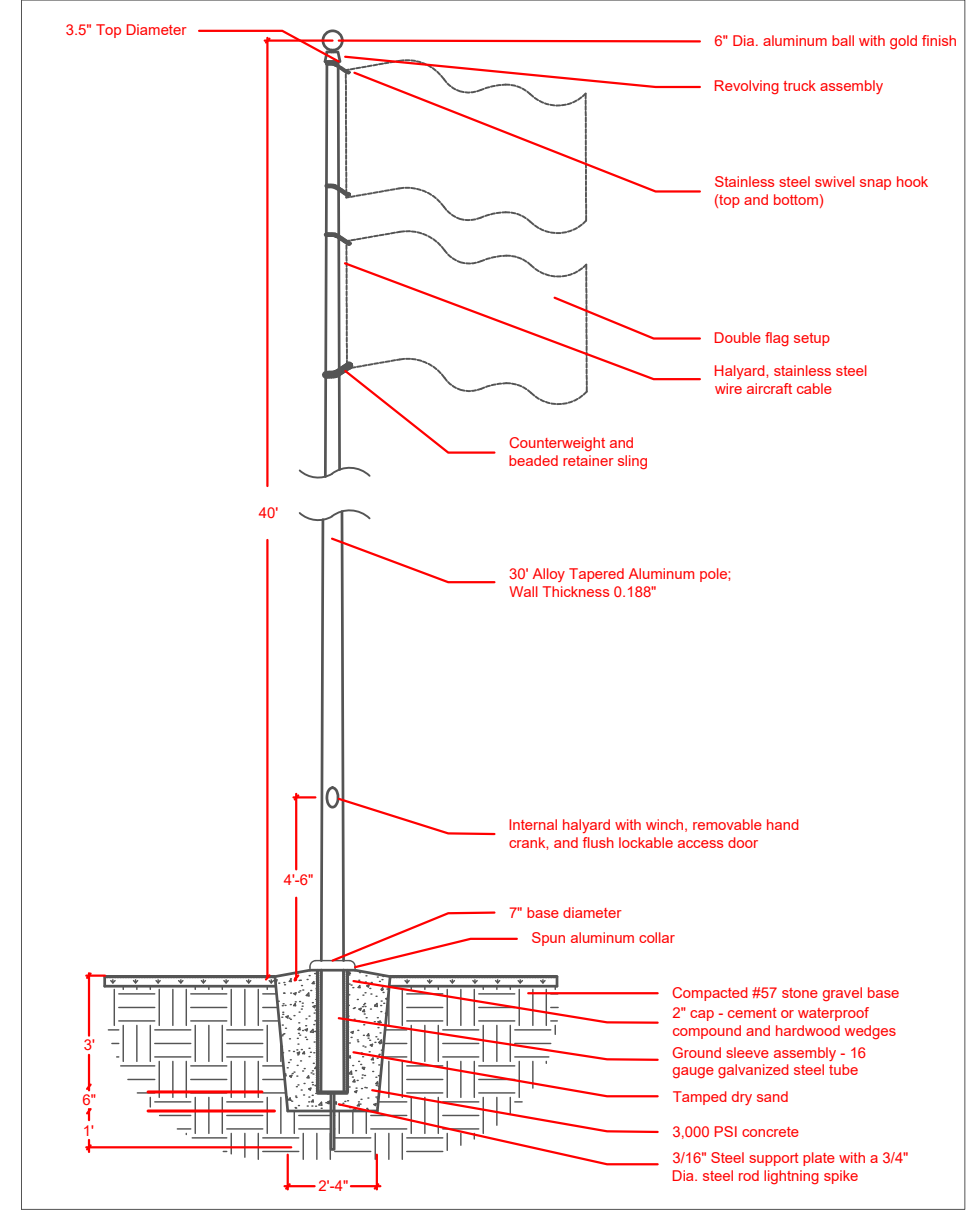
Expansion Joints (Typical)



**Pavement Detail**  
N.T.S.

Note: Identify all EJ which need replacement in the courtyard and verify with Division Engineer. Remove any derbies from all damaged existing EJ before filling it. Fill any void bottom of the EJ with sand. Place the EJ foam over the sand to create a durable area where sealant can sit. Apply approved sealant over the EJ foam.

**Flagpole Section Elevation**  
N.T.S.



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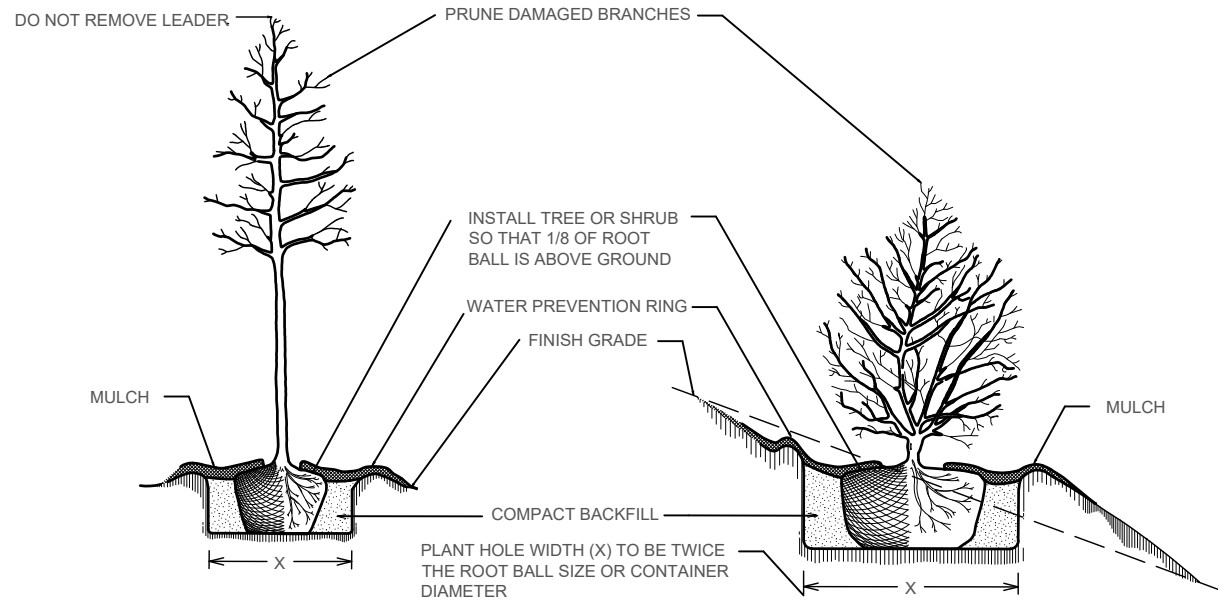
Dare County Visitor Center  
Landscape Improvement Project Restroom Area  
Manteo, North Carolina

PREL. DESIGN DATE: 06.15.2025  
FINAL DESIGN DATE: 08.15.2025  
LANDSCAPE ARCHITECT: Azad Atashi

Construction Detail Plan  
Scale:  
PROJECT TEAM: Taylor Dunston

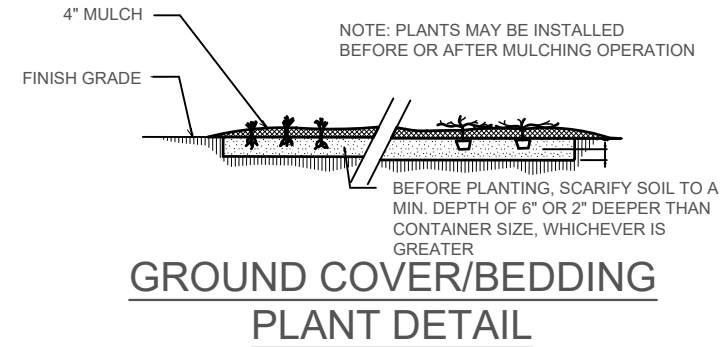


T.I.P. # -----  
WBS # 15RE.22.1  
FED I.D. # -----  
SHEET NO: L-8 TOTAL SHEET NO: L-9

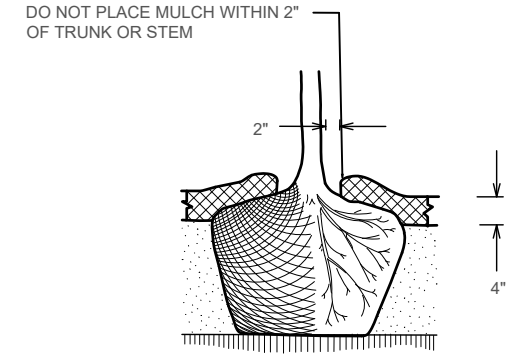


**TREE OR SHRUB PLANTING DETAIL**  
(LEVEL GROUND)

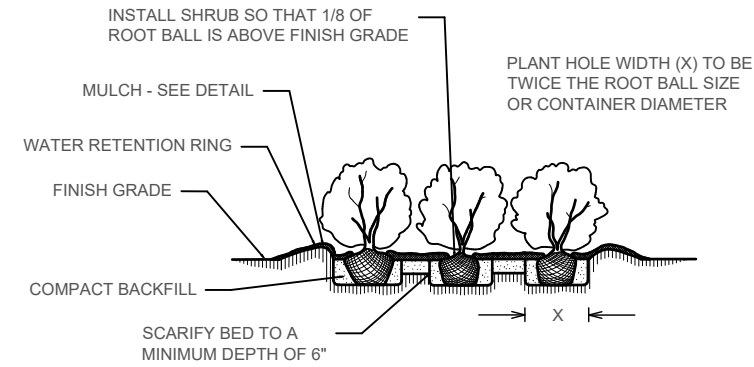
**TREE OR SHRUB PLANTING DETAIL**  
(SLOPING GROUND)



**GROUND COVER/BEDDING PLANT DETAIL**



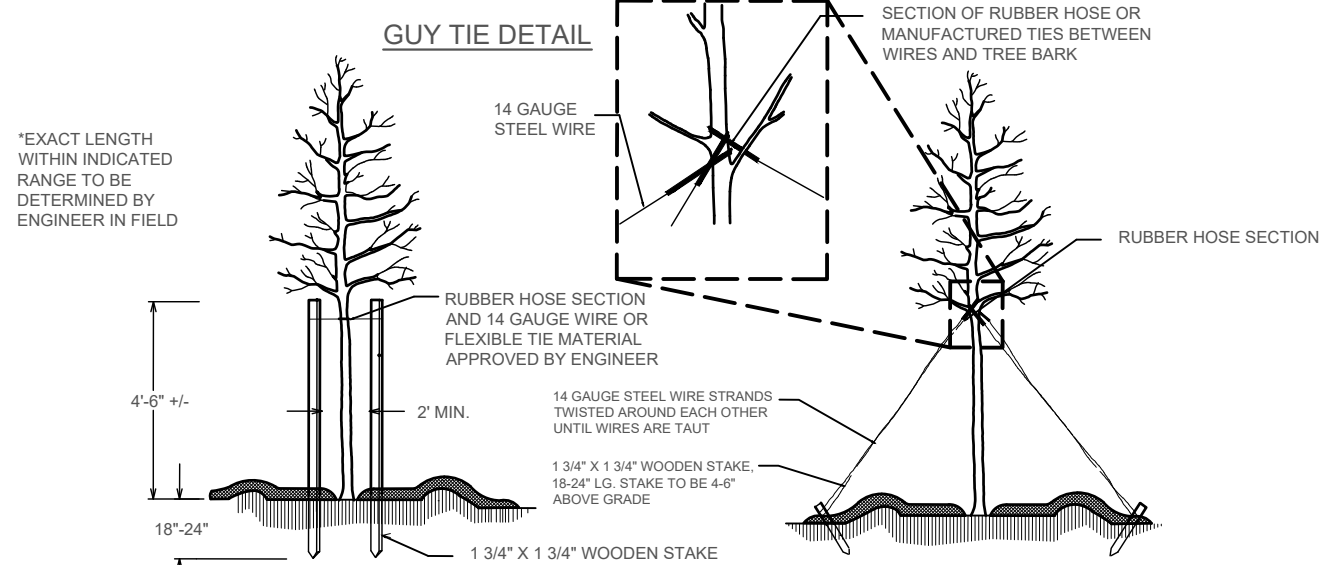
**MULCH DETAIL**



**SHRUB BED PLANTING DETAIL**

**NOTES:**

- 🌿 SCHEDULE FOR PLANT HOLE SIZE: PLANT HOLE WIDTH (X) TO BE TWICE THE ROOT BALL SIZE OR CONTAINER DIAMETER.
- 🌿 SEE STANDARD SPECIFICATIONS FOR PLANT BED FUMIGATION AND HERBICIDAL TREATMENT.
- 🌿 APPLY FERTILIZER AT PLANTING TIME IN THE FORM OF A SLOW RELEASE PELLET OR TABLET. APPLY AT A RATE RECOMMENDED BY MANUFACTURER. BOTH RATE AND FORMULATION MUST BE APPROVED BY FIELD ENGINEER PRIOR TO APPLICATION.
- 🌿 REMOVE WIRE BASKET AND FOLD BURLAP BACK FROM TOP OF ROOT BALL BEFORE BACKFILLING IS COMPLETE.
- 🌿 ALL PRUNING TO FOLLOW STANDARD ARBORICULTURAL PRACTICES AS SPECIFIED BY INTERNATIONAL SOCIETY OF ARBORICULTURE.
- 🌿 DO NOT ATTEMPT TO STRAIGHTEN A TREE THAT HAS BEEN PLANTED AT AN ANGLE WITH THE USE OF STAKING OR GUYING. DIG TREE AND REPLANT TO UPRIGHT POSITION.

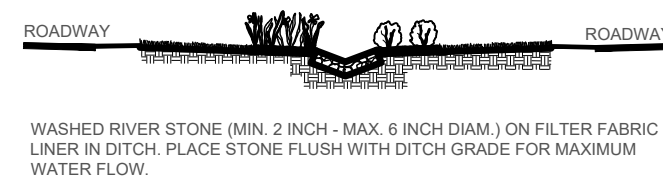


**STAKING DETAIL**  
(TREES 6'-10')

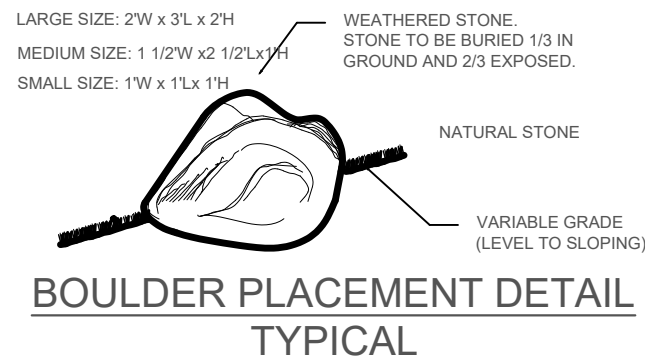
USE AS DIRECTED BY FIELD ENGINEER

**GUYING DETAIL**  
(TREES 10' OR LARGER)

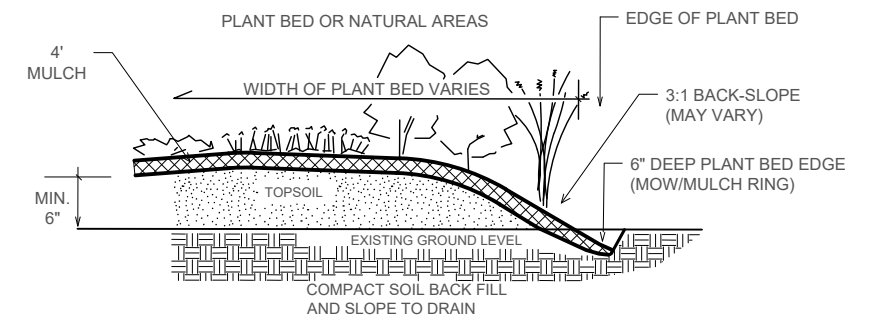
USE AS DIRECTED BY FIELD ENGINEER



**RIVERSTONE DITCH LINING DETAIL**



**BOULDER PLACEMENT DETAIL**  
TYPICAL



**PLANT BED EDGE DETAIL**



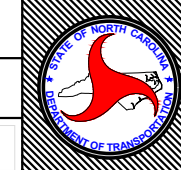
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Dare County Visitor Center  
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SHEET DESCRIPTION:	PREL. DESIGN DATE:	06.15.2025
	FINAL DESIGN DATE:	08.15.2025
LANDSCAPE ARCHITECT:	Azad Atashi	

Planting Details	
Scale:	N.T.S.
PROJECT TEAM:	Taylor Dunston



T.I.P. #	-----
WBS #	15RE.22.1
FED I.D. #	-----
SHEET NO.:	L-9
TOTAL SHEET NO.:	L-9