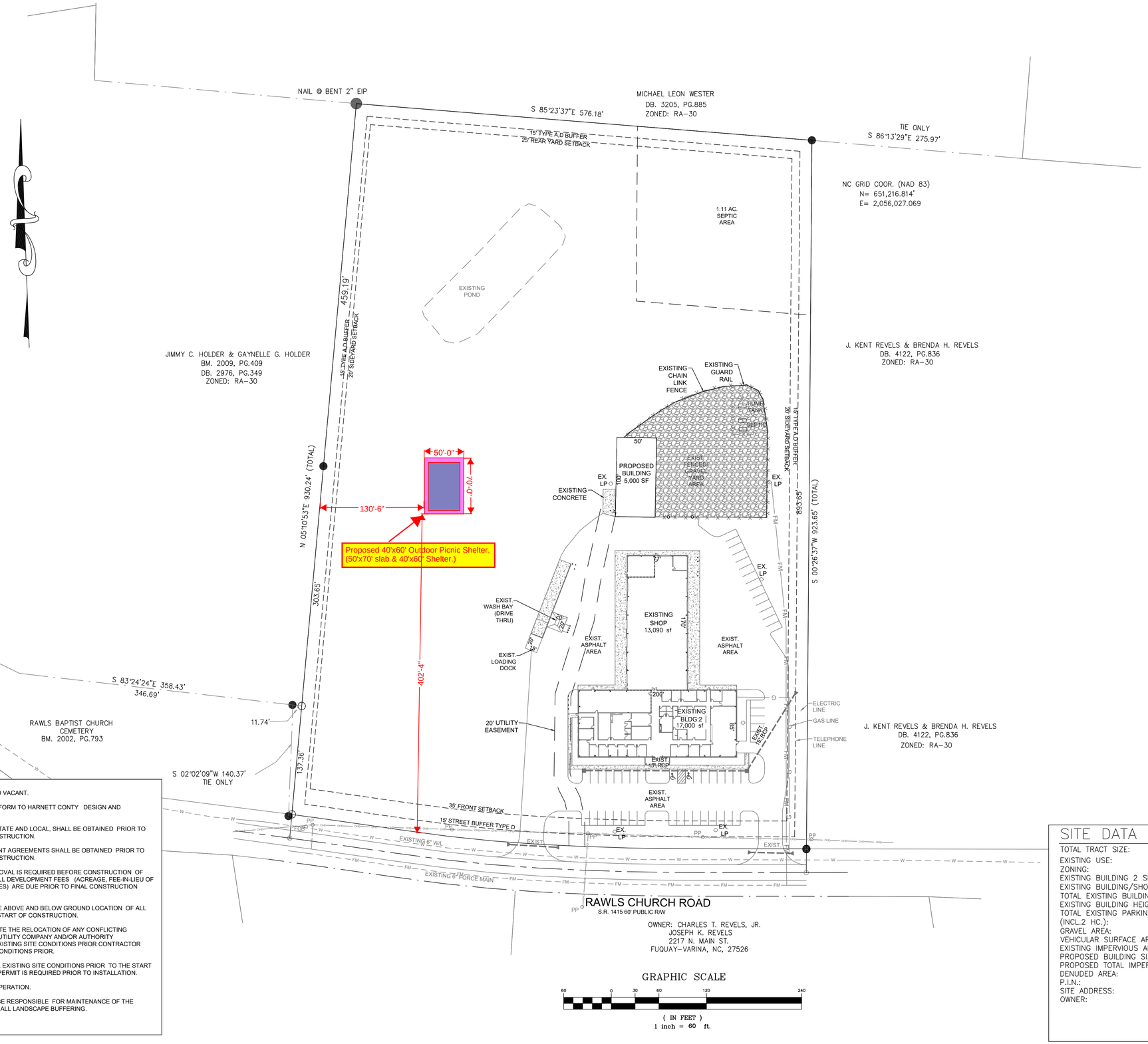


GENERAL SITE NOTES:

1. SITE CURRENTLY IS FALLOW AND VACANT.
2. ALL CONSTRUCTION SHALL CONFORM TO HARNETT CONTY DESIGN AND CONSTRUCTION STANDARDS.
3. ALL NECESSARY APPROVALS, STATE AND LOCAL, SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
4. ALL NECESSARY ENCROACHMENT AGREEMENTS SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5. CONSTRUCTION DRAWING APPROVAL IS REQUIRED BEFORE CONSTRUCTION OF THIS PROJECT CAN BEGIN. ALSO, ALL DEVELOPMENT FEES (ACREAGE, FEE-IN-LIEU OF ASSESSMENT, AND INSPECTION FEES) ARE DUE PRIOR TO FINAL CONSTRUCTION DRAWING APPROVAL.
6. CONTRACTOR SHALL VERIFY THE ABOVE AND BELOW GROUND LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE THE RELOCATION OF ANY CONFLICTING UTILITIES WITH THE APPROPRIATE UTILITY COMPANY AND/OR AUTHORITY CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR.
8. CONTRACTOR SHALL VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION NOTE - A SIGN PERMIT IS REQUIRED PRIOR TO INSTALLATION.
9. 9 AM - 5 PM OFFICE HOURS OF OPERATION.
10. CONSOLIDATED OF NC, LLC TO BE RESPONSIBLE FOR MAINTENANCE OF THE PARKING AREA, DRIVE AISLES, AND ALL LANDSCAPE BUFFERING.

GRAPHIC SCALE

60 0 30 60 120 240

(IN FEET)

1 inch = 60 ft.

SITE DATA

TOTAL TRACT SIZE:	555,826 S.F. 12.76 AC.
EXISTING USE:	WAREHOUSE/OFFICE/SHOP
ZONING:	COMM
EXISTING BUILDING 2 SIZE:	17,000 S.F.
EXISTING BUILDING/SHOP 2 SIZE:	13,090 S.F.
TOTAL EXISTING BUILDING SIZE:	30,090 S.F.
EXISTING BUILDING HEIGHT:	1 STORY
TOTAL EXISTING PARKING SPACES PROVIDED (INCL.2 HC.):	48 SPACES
GRAVEL AREA:	27,271 S.F.
VEHICULAR SURFACE AREA:	85,701 S.F.
EXISTING IMPERVIOUS AREA:	143,062 S.F. 25.7%
PROPOSED BUILDING SIZE:	5,000 S.F.
PROPOSED TOTAL IMPERVIOUS AREA:	143,062 S.F. 25.7%
DENUDED AREA:	261,360 S.F. 6.0 AC.
P.I.N.:	0655-50-7726
SITE ADDRESS:	0 RAWLS CHURCH RD.
OWNER:	REVELS REVELS AND JOSEPH REVELS 2217 N MAIN ST FUQUAY-VARINA, NC 27526

NO. | REVISION | DATE

SEAL: NORTH CAROLINA PROFESSIONAL SEAL 22024 ENGINEER CHERYL L. STEWART

STEWART - PROCTOR
ENGINEERING AND SURVEYING P-0148
319 CHAPANOKE ROAD
Raleigh, North Carolina 27603
Phone (919) 779-1855 Fax (919) 779-1661

PREPARED FOR :
REVELS TURF AND TRACTOR
2217 N MAIN STREET
FUQUAY-VARINA, NC 27526

DATE : 12-13-22
PROJECT ENGINEER:
KAREN STEWART
PROJECT CADD DESIGNER:
JOHN A. TEEL
PROJECT NUMBER:

REVELS TURF AND TRACTOR

HARNETT COUNTY, NORTH CAROLINA

SITE PLAN

DRAWING
SHEET
C-3

REVLELS PICNIC SHELTER
5118 RAWLS CHURCH ROAD
FUQUAY-VARINA, NORTH CAROLINA

SCOPE OF WORK:

NEW WOOD CONSTRUCTION PICNIC SHELTER FOR ADJACENT BUILDING EMPLOYEES

NC DEPT. OF INSURANCE 2018 APPENDIX B

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

NC

Name Of Project: REVELS PICNIC SHELTER
Address: 5118 RAWLS CHURCH ROAD
Zip Code: FUQUAY-VARINA, NC
Owner Or Authorized Agent: W. S. Architects, PA Phone: (919) 779-9797
E-mail ginger@wsarchitectspa.com

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

LEAD DESIGN PROFESSIONAL: W. S. ARCHITECTS, PA

Designer	FIRM	NAME	LIC. #	TELEPHONE	E-MAIL
Architectural:	W. S. Architects, PA	Ginger S. Summer	11075	(919) 779-9797	ginger@wsarchitectspa.com
Civil	---	---	---	---	---
Electrical:	Burke Design Group	Benjamin E Burke	22038	(919) 771-1916	ben@bdg-nc.com
Fire Alarm:	---	---	---	---	---
Plumbing:	---	---	---	---	---
Mechanical:	Burke Design Group	Benjamin E Burke	22038	(919) 771-1916	ben@bdg-nc.com
Sprinkler-Standpipe:	---	---	---	---	---
Structural:	---	---	---	---	---
Retaining Walls >5' High:	---	---	---	---	---
Other:	---	---	---	---	---

2018 NC BUILDING CODE: [X] 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) --- CURRENT OCCUPANCY(S) (Ch. 3): ---
RENOVATED: (date) --- PROPOSED OCCUPANCY(S) (Ch. 3): A-3
OCCUPANCY CATEGORY (Table 1604.5): Current: -- Proposed: II

BASIC BUILDING DATA

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

GROSS BUILDING AREA

	EXISTING (SF)	NEW (SF)	SUB-TOTAL	TENANT
3RD FLOOR	---	---	---	---
2ND FLOOR	---	---	---	---
MEZZANINE	---	---	---	---
1ST FLOOR	---	2,684	---	---
BASEMENT	---	---	---	---
TOTAL	**---**	**2,684**	**---**	---

ALLOWABLE AREA:

PRIMARY OCCUPANCY:

[X] ASSEMBLY [ ] A-1 [ ] A-2 [X] A-3 [ ] A-4 [ ] A-5
[ ] BUSINESS
[ ] EDUCATIONAL
[ ] FACTORY [ ] F-1 Moderate [ ] F-2 Low
[ ] HIGH-HAZARD [ ] H-1 Detonate [ ] H-2 Deflagrate [ ] H-3 Combust [ ] H-4 Health [ ] H-5 HPM
[ ] INSTITUTIONAL [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-1 Condition [ ] 1 [ ] 2
I-2 Condition [ ] 1 [ ] 2
I-3 Condition [ ] 1 [ ]2 [ ] 3 [ ] 4 [ ] 5
[ ] MERCANTILE
[ ] RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
[ ] STORAGE [ ] S-1 Moderate [ ] S-2 Low [ ] HIGH-PILED
[ ] PARKING GARAGE [ ] OPEN [ ] ENCLOSED [ ] REPAIR GARAGE
[ ]UTILITY & MISCELLANEOUS

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

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

_____ + _____ + ... = _____ ≤ 1.00

STORY NO.	DESCR'N AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR OPEN SPACE INCREASE 1,5	(D) ALLOWABLE AREA OR UNLIMITED 2,3
1	ASSEMBLY	2,684	6,000	4,500	10,500
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---

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

ALLOWABLE HEIGHT

	ALLOWABLE (TABLES 504.3 & 504.4)	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET	40 (FT)	20 (FT) MEAN ROOF	---
BUILDING HEIGHT IN STORIES	1 (STORIES ABOVE GRADE PLANE)	1 (STORIES)	---

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

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

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEP'N DIST. (FT)	RATING REQ'D	RATING PROV'D (W/ REDUCTION) *	DETAIL # AND SHEET #	DES. # FOR RATED ASS'Y	DES. # FOR RATED PENET'N	DES. # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS GIRDERS, TRUSSES	---	---	---	---	---	---	---
BEARING WALLS							
EXTERIOR							
NORTH	≥ 30'	0	0	---	---	---	---
EAST	≥ 30'	0	0	---	---	---	---
WEST	≥ 30'	0	0	---	---	---	---
SOUTH	≥ 30'	0	0	---	---	---	---
INTERIOR	---	---	---	---	---	---	---
NONBEARING WALLS AND PARTITIONS							
EXTERIOR							
NORTH	---	---	---	---	---	---	---
EAST	---	---	---	---	---	---	---
WEST	---	---	---	---	---	---	---
SOUTH	---	---	---	---	---	---	---
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		---	---	---	---	---	---
COLUMNS SUPPORTING ROOF		---	---	---	---	---	---
SHAFTS ENCLOSURES-EXIT		---	---	---	---	---	---
SHAFTS ENCLOSURES-LID		---	---	---	---	---	---
CORRIDOR SEPARATION		---	---	---	---	---	---
OCCUPANCY/FIRE BARRIER SEPARATION		---	---	---	---	---	---
PARTY/FIRE WALL SEPARATION		---	---	---	---	---	---
SMOKE BARRIER SEPARATION		---	---	---	---	---	---
SMOKE PARTITION		---	---	---	---	---	---
TENANT/DWELLING UNIT/SLEEPING UNIT SEPARATION		---	---	---	---	---	---
INCIDENTAL USE SEPARATION-RISER RM.		---	---	---	---	---	---

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

LIFE SAFETY PLAN REQUIREMENTS SHEET NUMBER A1

[ ] FIRE AND/OR SMOKE RATED WALL LOCATIONS (CHAPTER 7)
[ ] ASSUMED AND REAL PROPERTY LINE LOCATIONS (IF NOT ON SITE PLAN)
[ ] EXTERIOR WALL OPENING AREA WITH RESPECT TO DISTANCE TO ASSUMED PROPERTY LINES (705.8)
[X] OCCUPANCY USE FOR EACH AREA AS IT RELATES TO OCCUPANT LOAD CALCULATION (TABLE 1004.1.2)
[X] OCCUPANT LOADS FOR EACH AREA
[X] EXIT ACCESS TRAVEL DISTANCES (1017)
[ ] COMMON PATH OF TRAVEL DISTANCES (1006.2.1 & 1006.3.2(1))
[ ] DEAD END LENGTHS (1020.4)
[ ] CLEAR EXIT WIDTHS FOR EACH EXIT DOOR
[X] 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)

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

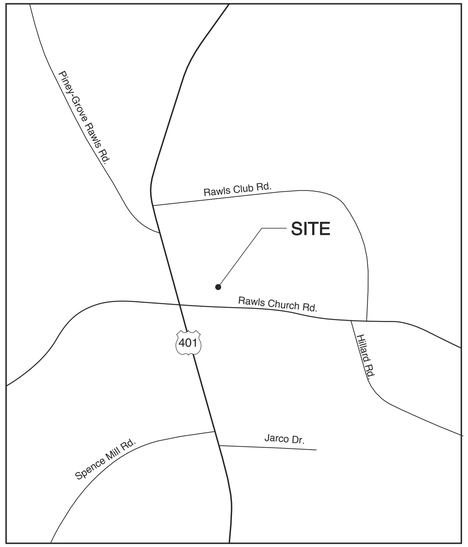
PLUMBING FIXTURE REQUIREMENT (TABLE 403.1)

--- OCCUPANTS

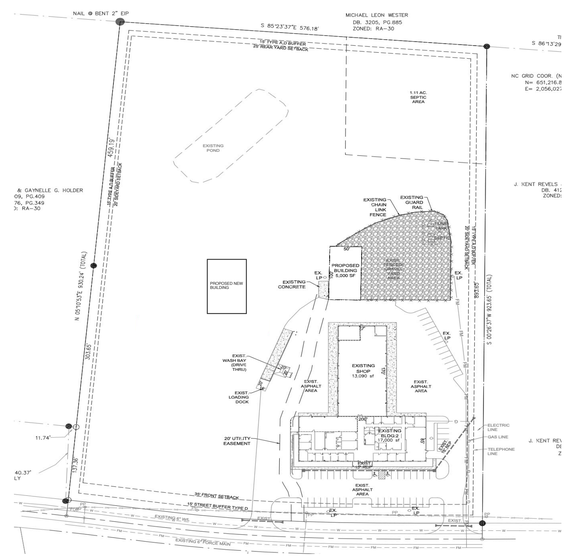
USE		WATERCLOSETS			URINALS	LAVATORIES			SERVICE SINK	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	---	---	---	---	---	---	---	---	---	---	---
	---	---	---	---	---	---	---	---	---	---	---

SPECIAL APPROVALS

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



1 **VICINITY MAP**
SCALE: NTS



2 **PLOT PLAN**
NOT TO SCALE

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

ENERGY SUMMARY

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

Existing building envelope complies with code:_____

Exempt Building: _____ Provide code or statutory refrence:

Climate Zone: ---

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

THERMAL ENVELOPE (Prescriptive method only)

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

Exterior Walls (each assembly)
Description of assembly: ---
U-Value of total assembly: ---
R-Value of insulation: ---
Openings (windows or doors with glazing)
U-Value of assembly ---
Solar heat gain coefficient ---
Projection factor ---
Door R-Values opaque -- U-factor
1/2 lite -- U-factor
full lite -- U-factor

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

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

DESIGN LOADS:

IMPORTANCE FACTORS: WIND (I *W*) ---
SNOW (I *S*) ---
SEISMIC (I *E*) ---
LIVE LOADS: ROOF --- psf
MEZZANINE na psf
FLOOR ---
GROUND SNOW LOAD: --- psf
WIND LOAD: ULTIMATE WIND SPEED --- mph (ASCE-7)
EXPOURE CATEGORY ---
WIND BASE SHEARS (FOR MWFRS) Vx = --- K Vy = --- K
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 S_S 0.166%g S_1 0.081%g
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 DISIGN CONTROL: EARTHQUAKE [ ] WIND [ ]
SOIL BEARING CAPACITIES:
FIELD TEST (PROVIDE COPY OF TEST REPORT) ---- psf
PRESUMPTIVE BEARING CAPACITY --- psf
PILE SIZE, TYPE, AND CAPACITY ----

GENERAL NOTES

I: FOR THIS PROJECT:

A) A **PROJECT EXPEDITOR** WILL BE DESIGNATED BY THE OWNER TO PROVIDE GENERAL ADMINISTRATION OF THESE DOCUMENTS FOR THE OWNER. THE OWNER SHALL BE THE PROJECT EXPEDITOR UNLESS OTHERWISE STIPULATED BY WRITTEN AGREEMENT WITH ANOTHER PARTY.

B) THESE DOCUMENTS ARE SCHEMATIC IN NATURE AND ARE INTENDED TO CONVEY THE DESIGN INTENT OF THE ARCHITECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, EXISTING CONDITIONS, ETC. FOR THE PROPER IMPLEMENTATION OF THESE DRAWINGS. DO NOT SCALE THE DRAWINGS.

C) THE ARCHITECTS SCOPE OF WORK DOES NOT INCLUDE CONSTRUCTION OBSERVATION UNLESS OTHERWISE DESIGNATED IN WRITING BY THE OWNER.

THE CONTRACTOR IS IN CHARGE OF THE WORK AND COMPLIANCE WITH THESE DOCUMENTS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE ARCHITECT WILL BEAR NO RESPONSIBILITY FOR FAILURE OF THE CONTRACTOR TO FULLY COMPLY WITH ALL INCLUSIVE DOCUMENTS.

USE OF THESE DOCUMENTS WILL CONSTITUTE AGREEMENT BY THE CONTRACTOR TO THESE CONDITIONS.

D) "THE GENERAL CONDITIONS OF THE CONTRACT FOR THE CONSTRUCTION OF THE BUILDINGS" OF THE AMERICAN INSTITUTE OF ARCHITECTS DOCUMENT A-201, LATEST EDITION, ARE HEREBY MADE PART OF THE DOCUMENTS. IN THE EVENT OF A CONFLICT, THESE GENERAL NOTES AND CONTRACT SUPERSEDE "AIA DOCUMENT A-201".

II: ALL WORK UNDER THIS CONTRACT SHALL:

A) CONFORM TO STATE, LOCAL AND NATIONAL CODES AND ORDINANCES AS ARE APPLICABLE TO THE WORK INCLUDING BUT NOT LIMITED TO THE NORTH CAROLINA STATE BUILDING CODE, THE AMERICANS WITH DISABILITIES ACT (ADA), NATIONAL ELECTRIC CODES, ASTM SPECIFICATIONS, AND OSHA SAFETY REGULATIONS.

B) COMPLY WITH ALL LAWS, ORDINANCES, CODES, RULES AND REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION (EPA). THE COST OF ALL REQUIRED INSPECTIONS AND PERMITS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

III: UNLESS OTHERWISE DIRECTED BY THE ARCHITECT, THE CONTRACTOR SHALL:

A) SUPPLY AND PAY FOR ALL LABOR, TRANSPORTATION, MATERIALS, TOOLS, APPARATUS, LIGHTS, POWER, HEAT, SANITARY FACILITIES, WATER, SCAFFOLDING, AND INCIDENTALS NECESSARY FOR THE COMPLETION OF HIS WORK.

B) INSTALL, MAINTAIN AND REMOVE ALL EQUIPMENT, OTHER UTENSILS OR THINGS USED FOR THE CONSTRUCTION PRIOR TO TURNING OVER THE PROJECT. IF SUCH ITEMS ARE LEFT AFTER COMPLETION OF THE PROJECT, THEY SHALL BECOME PROPERTY OF THE OWNER. THE OWNER MAY PROMPTLY DISPOSE OF SUCH ITEMS, AND WILL NOT BE SUBJECT TO CLAIMS OF THE CONTRACTOR RESULTING FROM SUCH DISPOSITION.

C) CONSTRUCT IN THE BEST AND PROFESSIONAL MANNER, A COMPLETE JOB AND EVERYTHING INCIDENTAL THERETO, AS SHOWN OR REASONABLY IMPLIED FROM THE PLANS, ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE DOCUMENTS.

D) VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PROCEEDING WITH THE WORK AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES DISCOVERED OR LACK OF REQUIRED INFORMATION TO REQUEST CLARIFICATION. IF THE CONTRACTOR OBSERVES THE DOCUMENTS TO BE CONTRARY TO GOVERNING LAWS, ORDINANCES, CODES, RULES AND REGULATIONS OR OTHERWISE QUESTIONABLE CONDITIONS, HE SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING FOR INSTRUCTIONS PRIOR TO PROCEEDING WITH THE WORK.

E) KEEP THE BUILDING AND SURROUNDING AREA REASONABLY FREE FROM RUBBISH AT ALL TIMES. AT A MINIMUM, DEBRIS SHALL BE REMOVED FROM THE SITE ON A WEEKLY BASIS OR AS DIRECTED BY PROJECT EXPEDITOR.

F) LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR MAY NOT INTERFERE WITH ADJACENT UTILITIES UNLESS PRIOR NOTICE AND PERMISSION IS RECEIVED FROM THOSE WHO MAY AS A RESULT OF THIS INTERFERENCE BE AFFECTED.

G) PRIOR TO ANY WORK, CALL "NC ONE CALL CENTER" @ 800-632-4949 AND OTHER LOCATING SERVICES AS TO CONFIRM LOCATION OF UTILITIES.

H) PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF THE BUILDING, EACH CONTRACTOR SHALL CLEAN HIS PORTION OF THE WORK, INCLUDING GLASS, HARDWARE FIXTURES, MASONRY, TILE AND MARBLE (USING NO ACID), CLEAN AND WAX ALL FLOORS AS SPECIFIED, AND COMPLETELY PREPARE THE BUILDING FOR USE BY THE OWNER.

I) FILE WITH THE OWNER CURRENT INSURANCE CERTIFICATIONS IN THE AMOUNTS REQUESTED BY THE OWNER FOR BUILDER'S RISK, WORKMEN'S COMPENSATION, COMPREHENSIVE GENERAL LIABILITY, BODILY INJURY AND PROPERTY DAMAGE. THIS INSURANCE SHALL INDEMNIFY THE OWNER AND THE ARCHITECT OF ANY AND ALL COSTS, CLAIMS, SUITS AND JUDGEMENTS FOR PROPERTY DAMAGE AND PERSONAL INJURY (INCLUDING GENERAL) ARISING OUT OF THE CONTRACTOR'S ACTIONS.

J) PROVIDE ALL NECESSARY SAFETY MEASURES FOR THE PROTECTION OF ALL PERSONS OF THE WORK, INCLUDING THE REQUIREMENTS OF THE A.G.C. ACCIDENT PREVENTION MANUAL IN CONSTRUCTION AS AMENDED, AND SHALL FULLY COMPLY WITH ALL STATE LAWS OR REGULATIONS AND NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS TO PREVENT ACCIDENT OR INJURY TO PERSONS ON OR ABOUT THE LOCATION OF THE WORK.

K) CLEARLY MARK OR POST SIGNS WARNING OF HAZARDS EXISTING, AND BARRICADE EXCAVATIONS, ELEVATOR SHAFTS, STAIRWELLS AND SIMILAR HAZARDS. PROTECT AGAINST DAMAGE OR INJURY RESULTING FROM FALLING MATERIALS AND MAINTAIN ALL PROTECTIVE DEVICES AND SIGNS THROUGHOUT THE PROGRESS OF THE WORK

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Raleigh, North Carolina 27603
919.779.9797
www.wsarchitectspa.com

W. S. ARCHITECTS, PA
REGISTERED ARCHITECTURAL CORPORATION
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NORTH CAROLINA
RALEIGH, NC

GINGER S. SUMMER
REGISTERED ARCHITECT
11075
NORTH CAROLINA
RALEIGH, NC
Digitally signed by Ginger S. Summer
E9D2834568262C422...
4/17/2026

PROJECT TITLE
REVELS PICNIC SHELTER
5118 RAWLS ROAD
FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO.
2614

DRAWING TITLE
COVER

SHEET 1 OF 6

A0

PLOT DATE 4/17/26
REVISION ---

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

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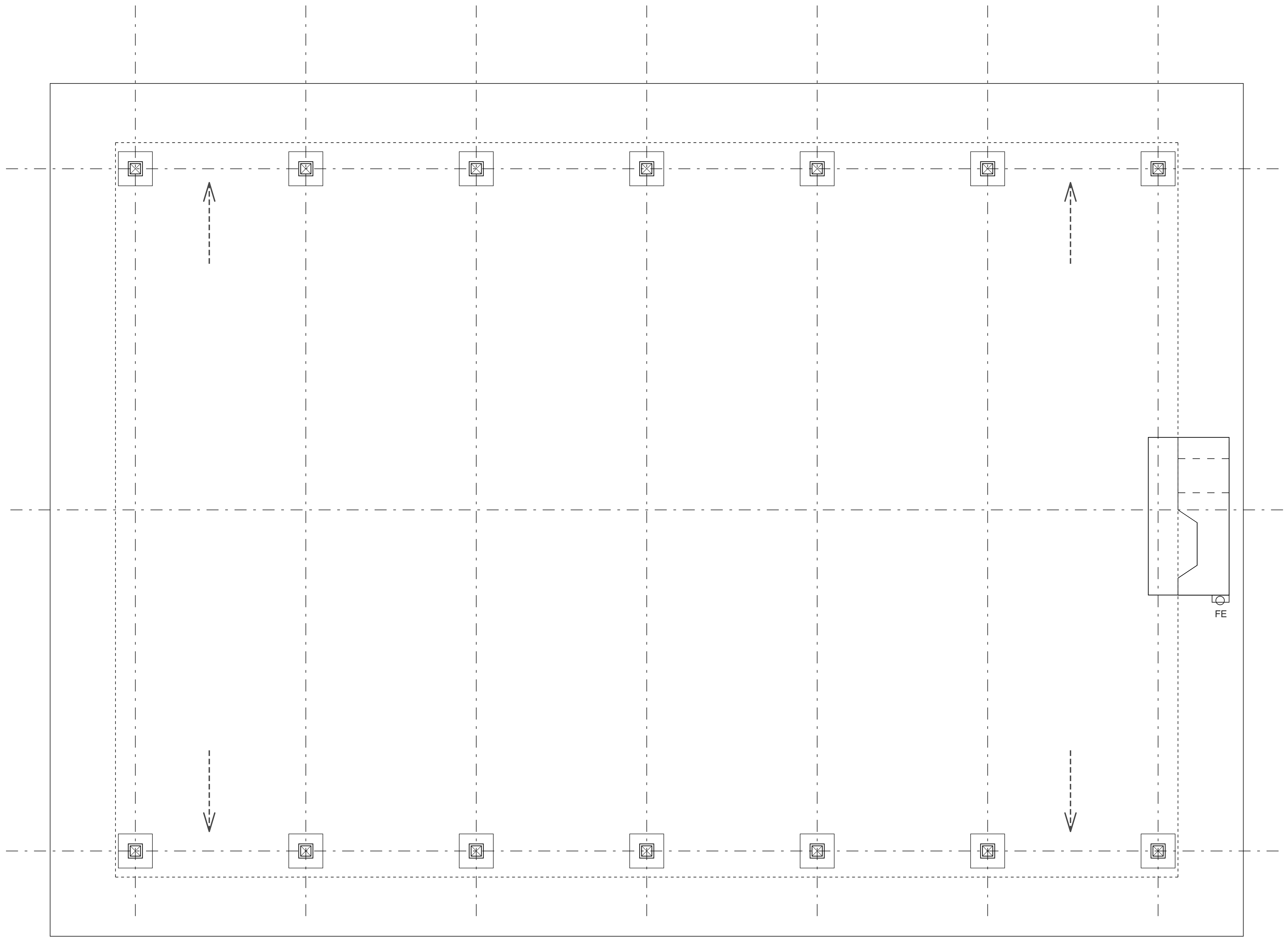
LEGEND

- - - - ->	EGRESS PATH
FE	ABC FIRE EXTINGUISHER IN HEAVY DUTY OUTDOOR SERIES FIRE EXT. CABINET EXT. 48" AFF MAX VERIFY LOC. W/ FIRE MARSHALL

EGRESS & CODE REF.

ASSEMBLY USE
15 SF PER PERSON
2,684 SF /15 =
179 PERSONS



1 LIFE SAFETY
SCALE: 1/4" = 1'-0"
5' 4' 3' 2' 1' 0 5'

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RALEIGH, NC
4/17/2026

PROJECT TITLE
REVELS PICNIC SHELTER
5118 RAWLS CHURCH RD
FUQUAY-VARINA, NORTH CAROLINA

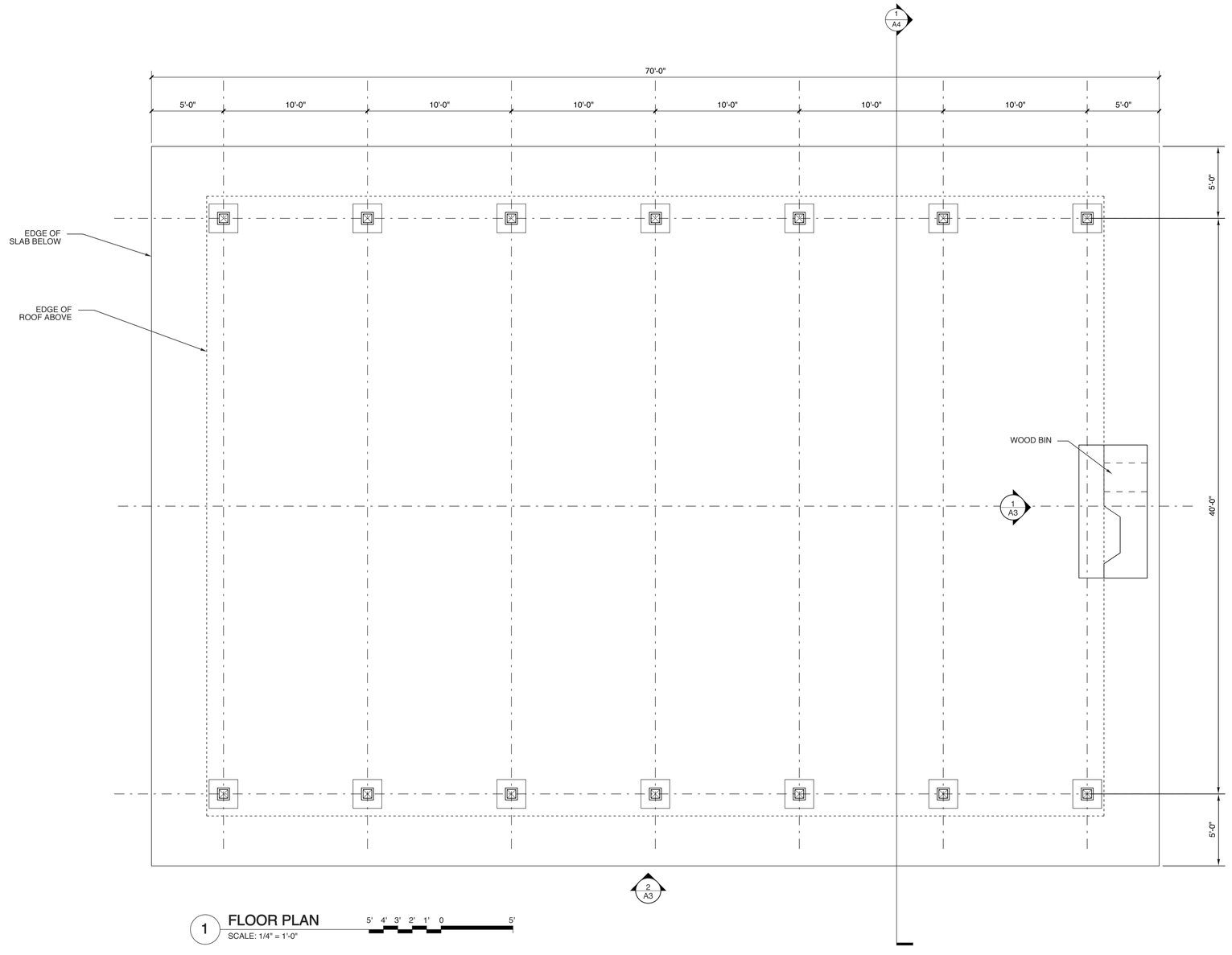
PROJECT NO.
2614

DRAWING TITLE
LIFE SAFETY PLAN

SHEET 2 OF 6

A1

PLOT DATE 4/17/26
REVISION ---



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

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

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PROJECT TITLE
REVELS PICNIC SHELTER
5118 RAWLS CHURCH RD
FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO.
2614

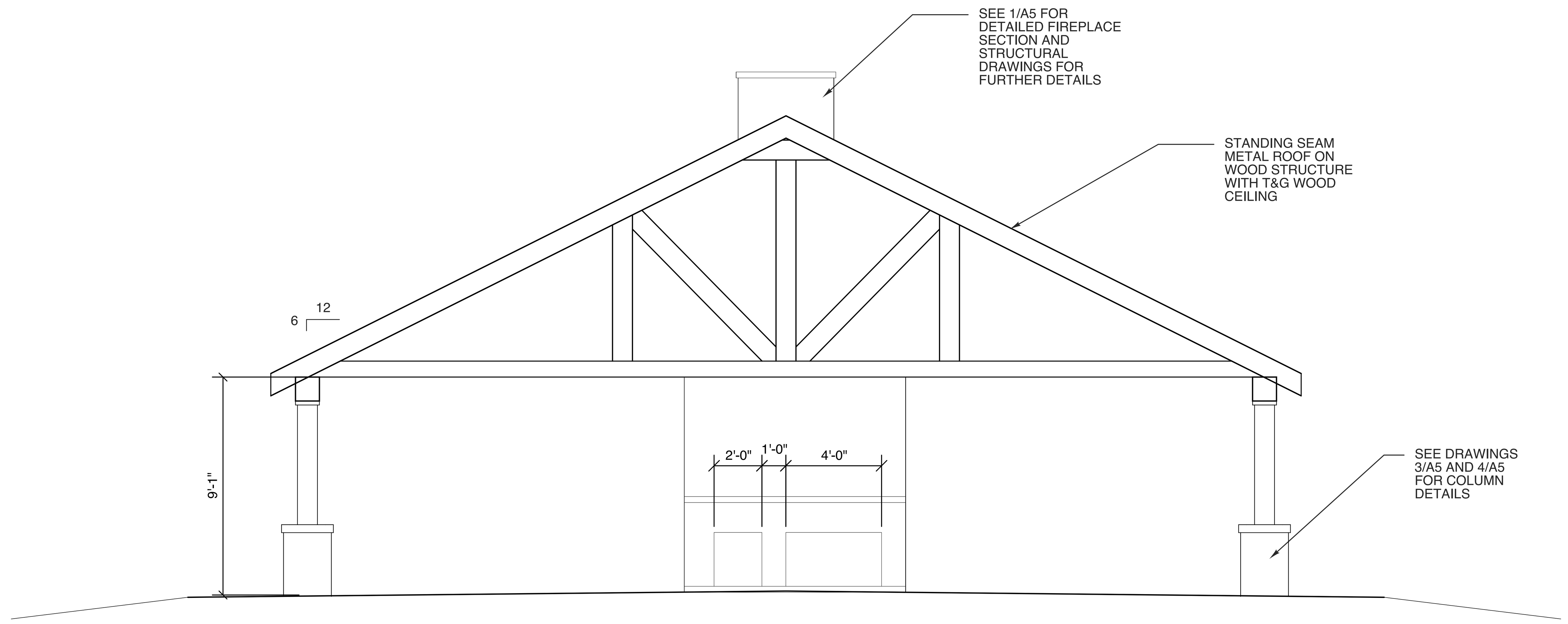
DRAWING TITLE
FLOOR PLAN

SHEET 3 OF 6

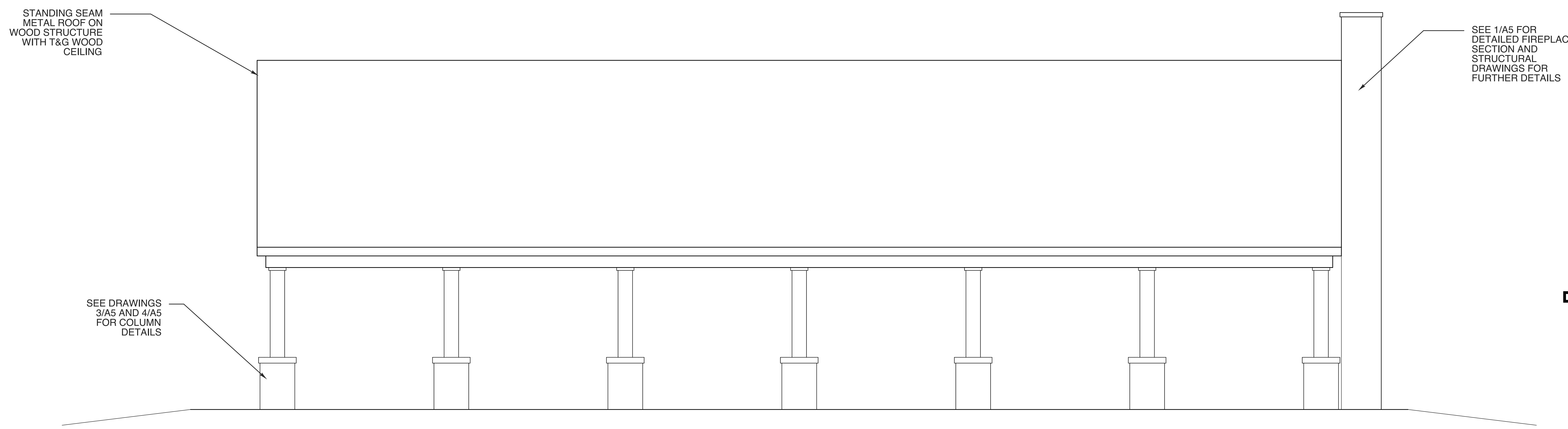
A2

PLOT DATE 4/17/26
REVISION ---

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



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



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

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RALEIGH, NC
4/20/2026

PROJECT TITLE
REVELS PICNIC SHELTER
5118 RAWLS CHURCH RD
FUQUAY-VARINA, NORTH CAROLINA

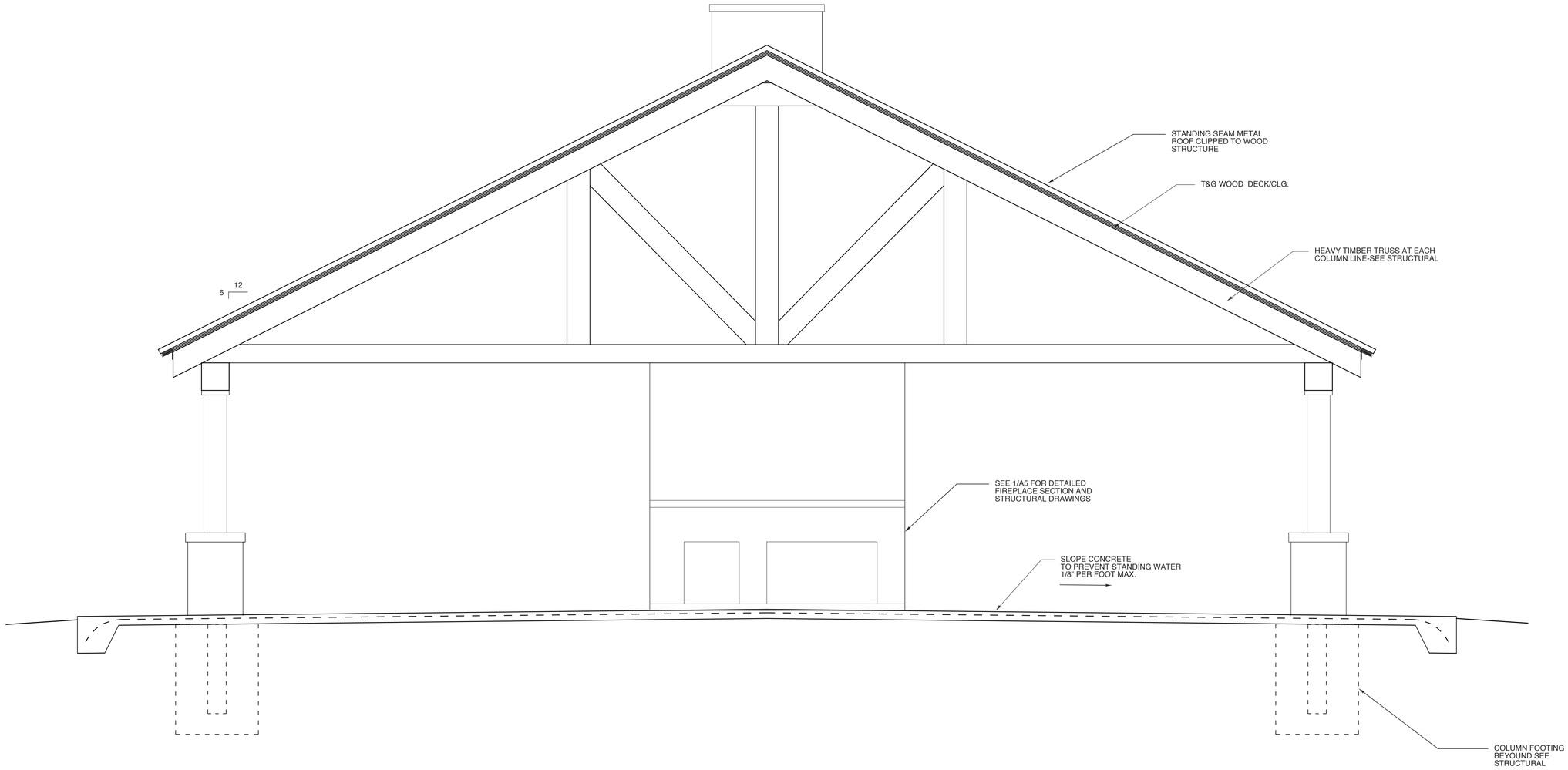
PROJECT NO.
2614

DRAWING TITLE
ELEVATIONS

SHEET 4 OF 6

A3

PLOT DATE 4/20/26
REVISION ---



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

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4/20/2026

PROJECT TITLE
REVELS PICNIC SHELTER

5118 RAWLS CHURCH RD
FUQUAY-VARINA, NORTH CAROLINA

PROJECT NO.
2614

DRAWING TITLE
BUILDING SECTION

SHEET 5 OF 6

A4

PLOT DATE 4/20/26
REVISION ---

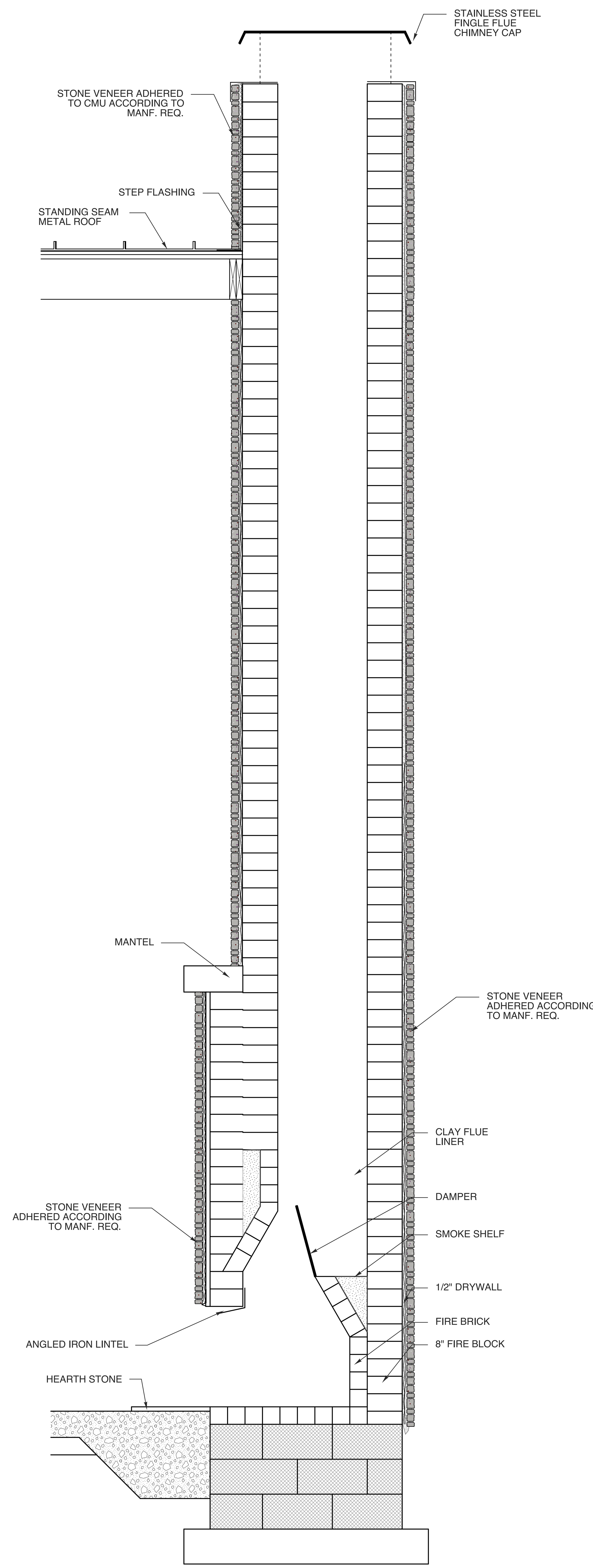
ITEM	LETTER	REQUIREMENTS	SECTION
Hearth and hearth extension thickness	A	4-inch minimum thickness for hearth, 2-inch minimum thickness for hearth extension.	2111.9
Hearth extension (each side of opening)	B	8 inches for fireplace opening less than 6 square feet. 12 inches for fireplace opening greater than or equal to 6 square feet.	2111.10
Hearth extension (front of opening)	C	16 inches for fireplace opening less than 6 square feet. 20 inches for fireplace opening greater than or equal to 6 square feet.	2111.10
Firebox dimensions	—	20-inch minimum firebox depth. 12-inch minimum firebox depth for Rumford fireplaces.	2111.6
Hearth and hearth extension reinforcing	D	Reinforced to carry its own weight and all imposed loads.	2111.9
Thickness of wall of firebox	E	10 inches solid masonry or 8 inches where firebrick lining is used.	2111.5
Distance from top of opening to throat	F	8 inches minimum.	2111.7 2111.7.1
Smoke chamber wall thickness dimensions	G	6 inches lined; 8 inches unlined. Not taller than opening width; walls not inclined more than 45 degrees from vertical for prefabricated smoke chamber linings or 30 degrees from vertical for corbeled masonry.	2111.8
Chimney vertical reinforcing	H	Four No. 4 full-length bars for chimney up to 40 inches wide. Add two No. 4 bars for each additional 40 inches or fraction of width, or for each additional flue.	2111.3.1, 2113.3.1
Chimney horizontal reinforcing	J	$^1/_4$-inch ties at each 18 inches, and two ties at each bend in vertical steel.	2111.3.2, 2113.3.2
Fireplace lintel	L	Noncombustible material with 4-inch bearing length of each side of opening.	2111.7
Chimney walls with flue lining	M	4-inch-thick solid masonry with $^5/_8$-inch fireclay liner or equivalent. $^1/_2$-inch grout or airspace between fireclay liner and wall.	2113.11.1
Effective flue area (based on area of fireplace opening and chimney)	P	See Section 2113.16.	2113.16
Clearances From chimney From fireplace From combustible trim or materials Above roof	R	 2 inches interior, 1 inch exterior or 12 inches from lining. 2 inches back or sides or 12 inches from lining. 6 inches from opening 3 feet above roof penetration, 2 feet above part of structure within 10 feet.	 2113.19 2111.11 2111.12 2113.9
Anchorage strap Number required Embedment into chimney Fasten to Number of bolts	S	$^3/_{16}$ inch by 1 inch Two 12 inches hooked around outer bar with 6-inch extension. 4 joists Two $^1/_2$-inch diameter.	2111.4 2113.4.1
Footing Thickness Width	T	 12-inch minimum. 12 inches each side of fireplace wall.	2111.2

TABLE 2111.1
SUMMARY OF REQUIREMENTS FOR MASONRY FIREPLACES AND CHIMNEYS[a]

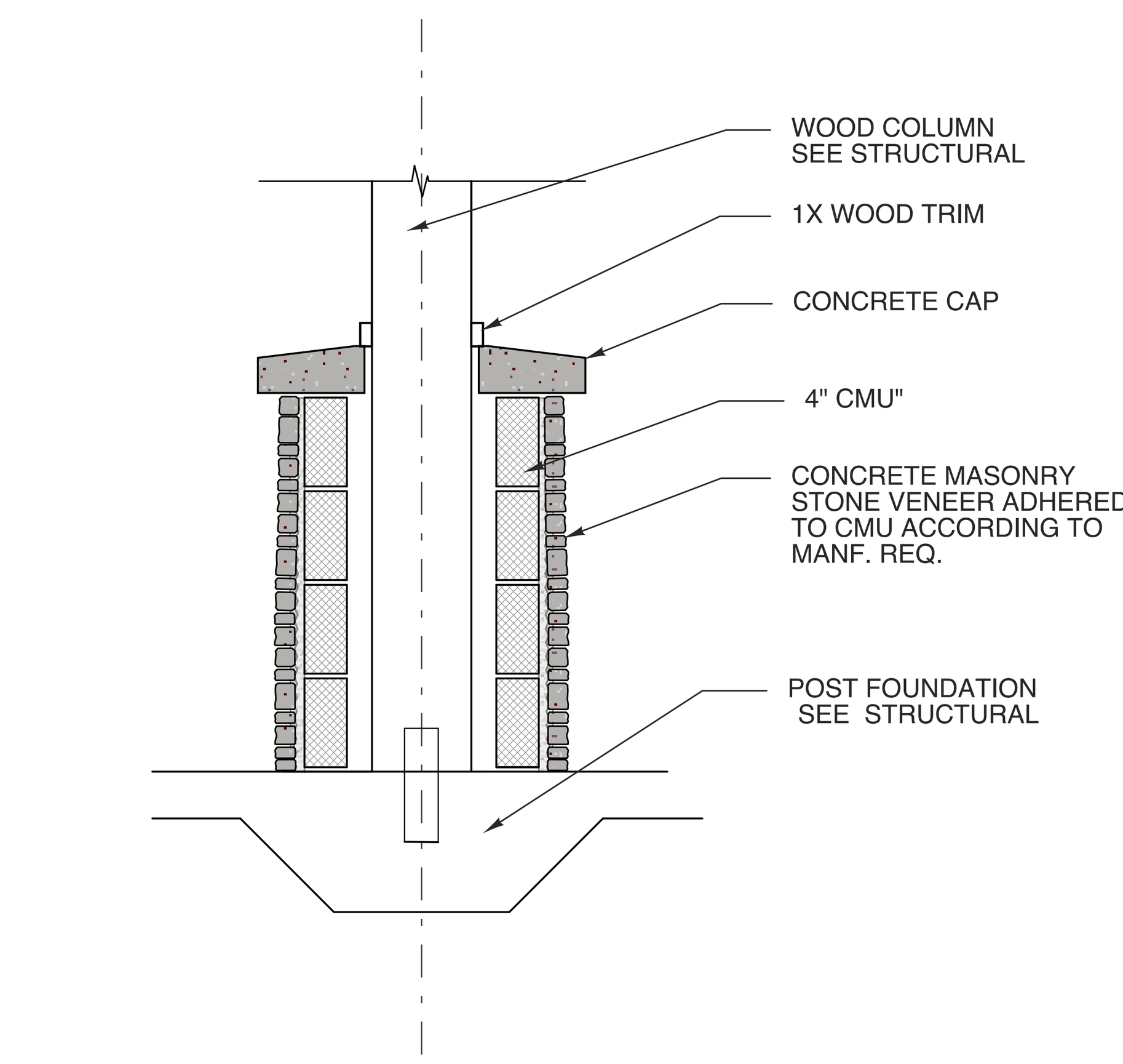
For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 square foot = $0.0929 m^2$, 1 degree = 0.017 rad.

a. This table provides a summary of major requirements for the construction of masonry chimneys and fireplaces. Letter references are to Figure 2111.1, which shows examples of typical construction. This table does not cover all requirements, nor does it cover all aspects of the indicated requirements. For the actual mandatory requirements of the code, see the indicated section of text.

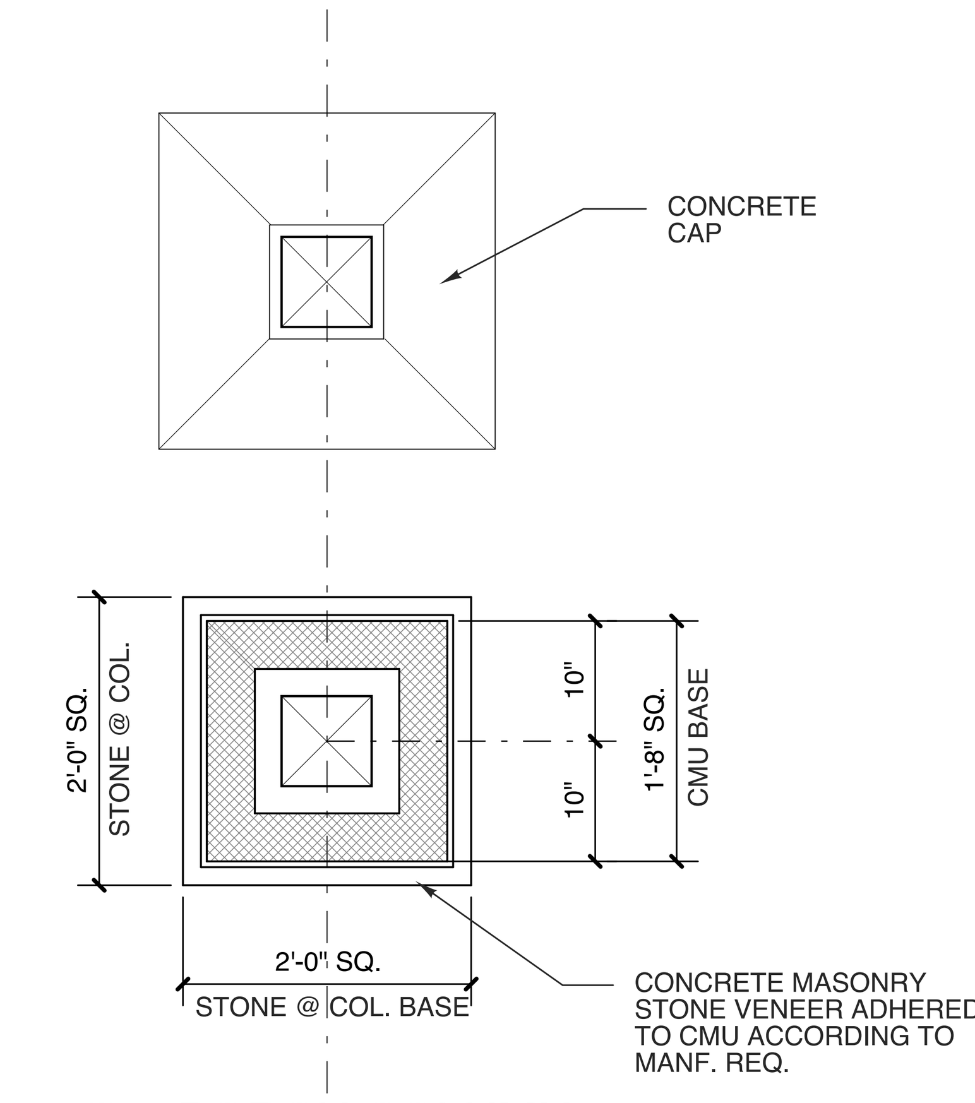
FIREPLACE & CHIMNEY TO MEET NCSBC SECTION 2111. SEE TABLE 2111.1 FOR CLEARANCES.



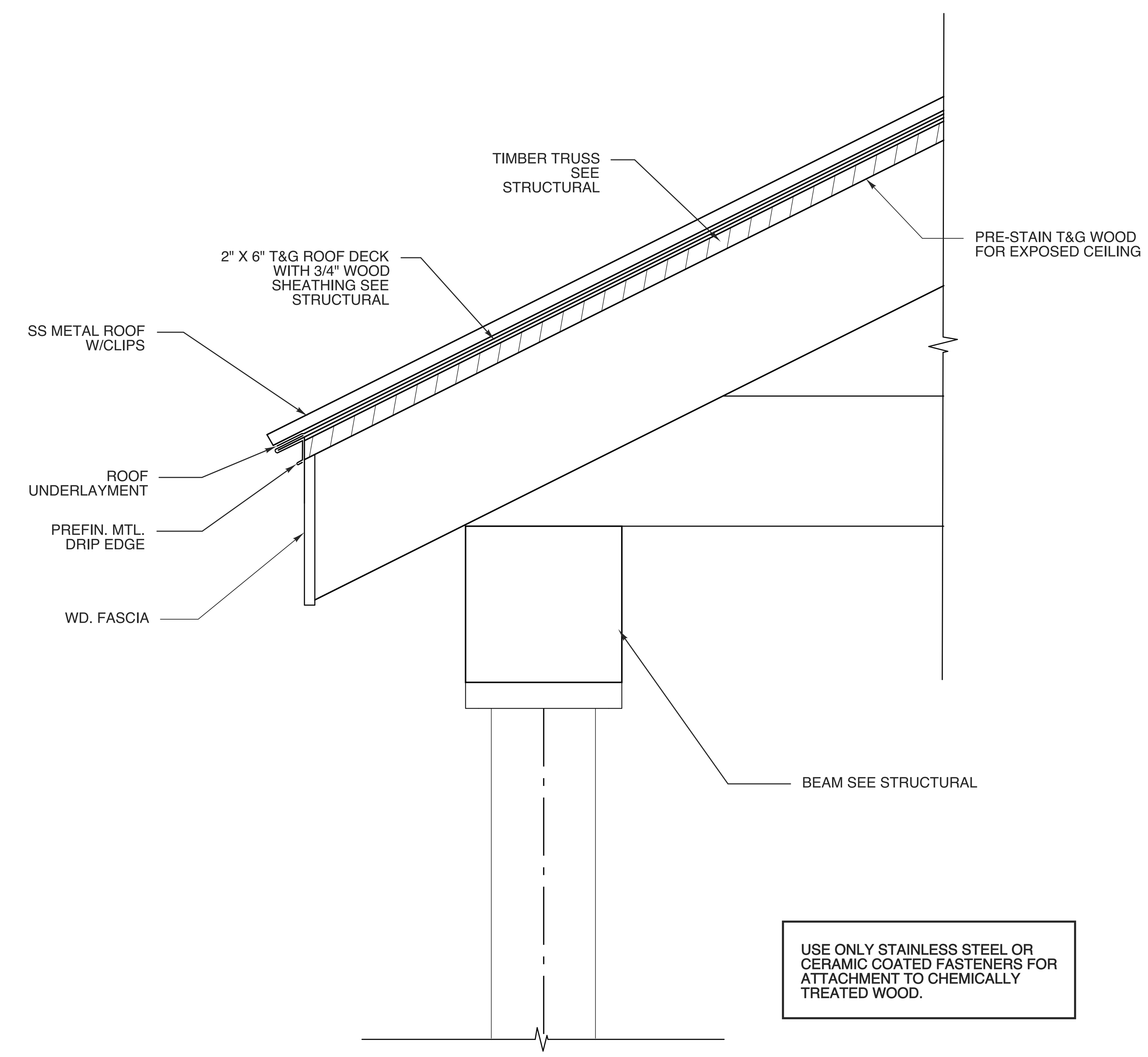
1 FIREPLACE/CHIMNEY SECTION
SCALE: 1-1/2" = 1'-0"



3 COLUMN BASE SECT.
SCALE: 3/4" = 1'-0"



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



USE ONLY STAINLESS STEEL OR CERAMIC COATED FASTENERS FOR ATTACHMENT TO CHEMICALLY TREATED WOOD.

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

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4/20/2026

PROJECT TITLE
REVELS PICNIC SHELTER
5118 RAWLS CHURCH RD
FUQUAY-VARINA, NORTH CAROLINA

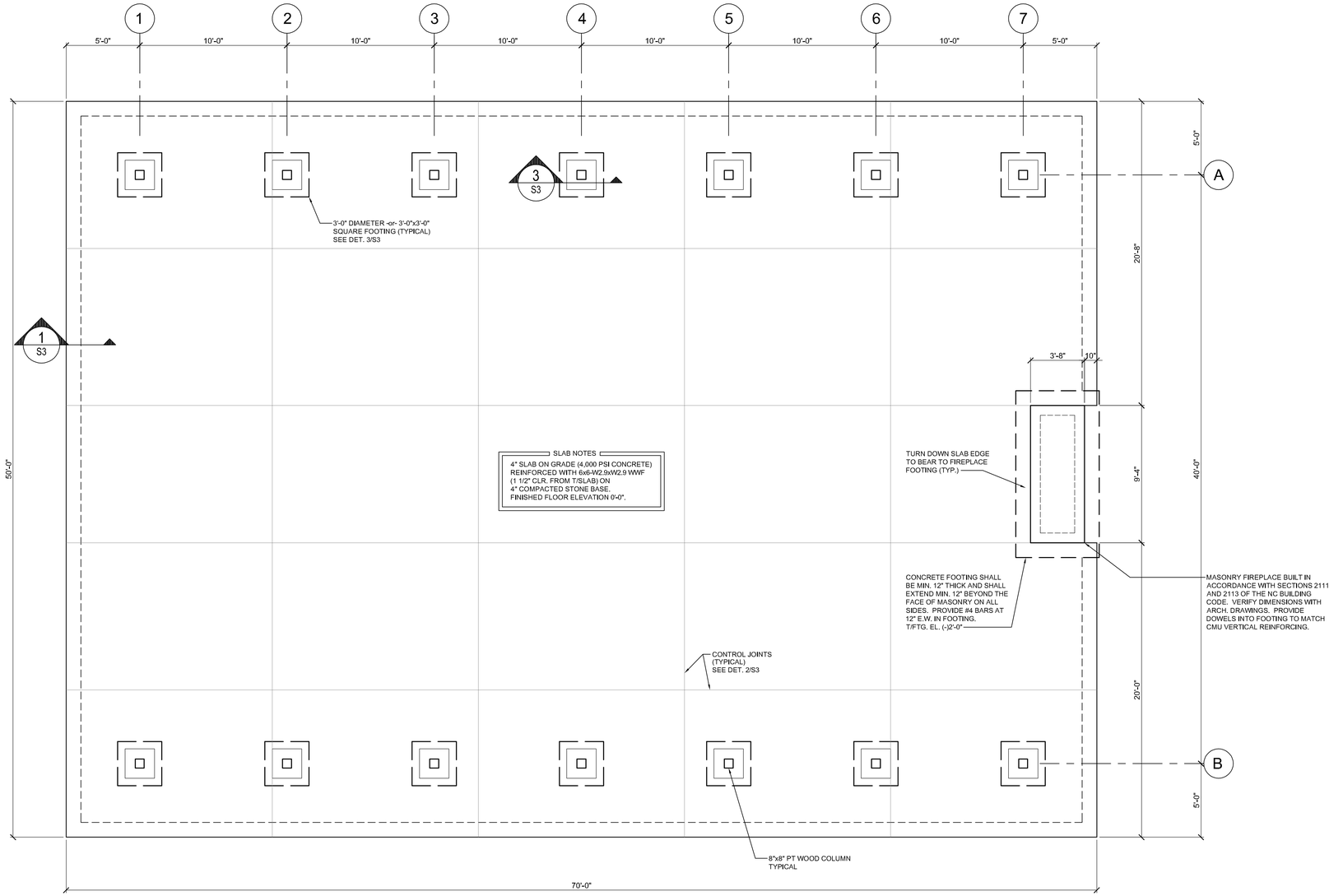
PROJECT NO.
2614

DRAWING TITLE
SECTIONS

SHEET 6 OF 6

A5

PLOT DATE 4/20/26
REVISION ---



1 S1 FOUNDATION PLAN

1/4" = 1'-0"

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NC LICENSE NO. C-2364

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

PROJECT TITLE
REVELS PICNIC SHELTER
5118 RAWLS CHURCH RD.
FUQUAY-VARINA, NC

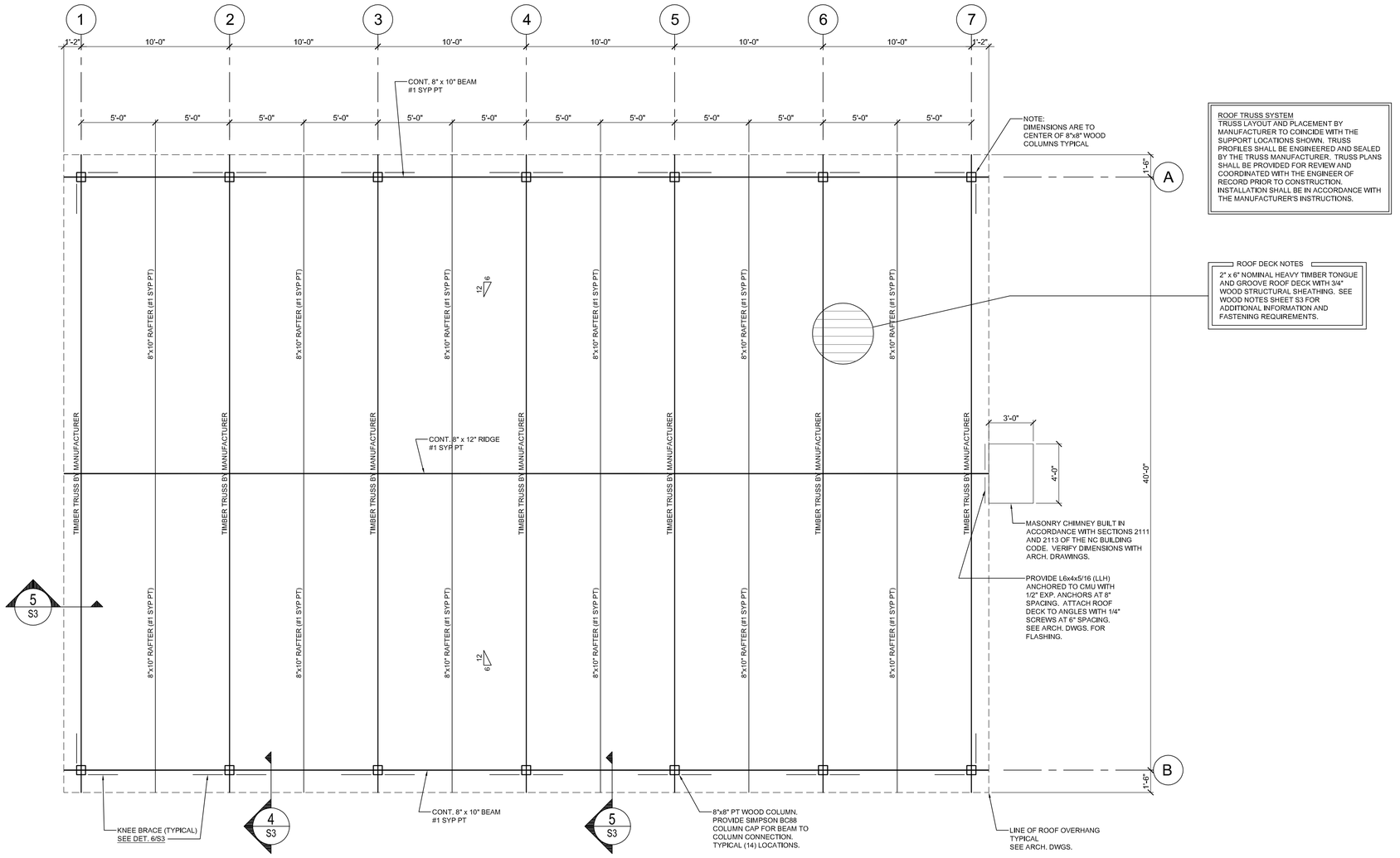
PROJECT NO.
C260106

DRAWING TITLE
FOUNDATION PLAN

SHEET 0 OF 0

S1

PLOT DATE 04/20/2026
REVISION --



1 S2 ROOF FRAMING PLAN

1/4" = 1'-0"

TRUSS BOTTOM CHORD BRACING NOTES:

TRUSS MANUFACTURER SHALL PROVIDE PERMANENT BOTTOM CHORD TRUSS BRACING, OR TRUSSES SHALL BE DESIGNED SUCH THAT BRACING IS NOT REQUIRED.

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REVELS PICNIC SHELTER
5118 RAWLS CHURCH RD.
FUQUAY-VARINA, NC

PROJECT NO.
C260106

DRAWING TITLE
ROOF FRAMING PLAN

SHEET 0 OF 0

S2

PLOT DATE 04/20/2026
REVISION --

STRUCTURAL NOTES

I. GENERAL

1. DESIGN CODES

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

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

AISC MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN
NINTH EDITION

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

2. DESIGN LOADS

LIVE LOADS: FLOOR: 100 PSF
ROOF: 20 PSF

ULTIMATE DESIGN WIND SPEED: 116 MPH (RISK CATEGORY II)

GROUND SNOW LOAD: 15 PSF

SITE CLASS D
Ss = 0.173
S1 = 0.083
SEISMIC DESIGN CATEGORY B

3. ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION OF 0'-0".

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

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

II. CONCRETE

1. UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL HAVE THE FOLLOWING STRENGTH AND SLUMP REQUIREMENTS:
4,000 PSI 28-DAY COMPRESSIVE STRENGTH, MAX. 5" SLUMP.

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

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

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

5. ALL BAR SPLICES SHALL BE CLASS "B" TENSION SPLICES PER ACI 318-08, UNLESS OTHERWISE SHOWN.

6. ANCHOR BOLTS TO BE ASTM A36 OR A307.

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

8. ALL SPREAD FOOTINGS BEARING ON NATIVE SOIL OR STRUCTURAL FILL ARE DESIGNED FOR AN ASSUMED ALLOWABLE BEARING PRESSURE OF 2,500 PSF. A GEOTECHNICAL REPRESENTATIVE SHALL INSPECT ALL FOOTING EXCAVATIONS TO CONFIRM ALLOWABLE BEARING PRESSURES.

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

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

III. MASONRY

1. MASONRY CONSTRUCTION SHALL COMPLY WITH ACI 530.1-02/ASCE 6-02: "SPECIFICATION FOR MASONRY STRUCTURES."

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

3. MASONRY FIREPLACES AND CHIMNEYS SHALL BE BUILT IN ACCORDANCE WITH SECTIONS 2111 AND 2113 OF THE NC BUILDING CODE.

4. PROVIDE #4 VERTICAL REINFORCING AT MAXIMUM 24" SPACING. PROVIDE VERTICAL REINFORCING AT ALL CORNERS. LAP SPLICE 2'-8" MINIMUM. ALL CELLS SHALL BE FULLY GROUTED SOLID.

5. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT 16" O.C.

6. PROVIDE A CONTINUOUS BOND BEAM (WITH TWO #4 BARS MINIMUM) AT AT LOCATIONS WHERE ROOF IS STRUCTURALLY CONNECTED TO THE WALL.

7. PROVIDE CONTINUOUS BOND BEAMS (WITH TWO #4 BARS MINIMUM) AT A MAXIMUM SPACING OF 6 FEET UNLESS NOTED OTHERWISE ON DRAWINGS.

8. BOND BEAM BLOCK UNITS SHALL HAVE OPENINGS IN THE BOTTOM TO ALLOW VERTICAL REINFORCEMENT TO PASS. U-BLOCKS SHALL BE USED AT LINTELS ONLY.

9. PROVIDE DOWELS INTO FOOTING OR SLAB TO MATCH VERTICAL REINFORCING.

10. FILL ALL CELLS AND BOND BEAMS WITH 3000 PSI GROUT. PLACE GROUT IN VERTICAL LIFTS NOT EXCEEDING 6 FEET.

IV. WOOD

1. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #1 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22.

2. SEE TYPICAL SECTION FOR ADDITIONAL INFORMATION.

V. WOOD TRUSSES

1. ENGINEERED ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. ROOF TRUSS DRAWINGS SHALL BE SIGNED AND SEALED BY THE MANUFACTURER AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION. CONTACT THE ENGINEER IF TRUSS DRAWINGS ARE CHANGED OR MODIFIED PRIOR TO CONSTRUCTION.

2. THE TOP CHORD OF ALL ROOF TRUSSES SHALL BE SHEATHED WITH 2" x 6" NOMINAL HEAVY TIMBER TONGUE AND GROOVE ROOF DECK WITH 3/4" WOOD STRUCTURAL SHEATHING. SEE NOTES BELOW.

3. TRUSS MANUFACTURER SHALL PROVIDE PERMANENT BOTTOM CHORD TRUSS BRACING, OR TRUSSES SHALL BE DESIGNED SUCH THAT BRACING IS NOT REQUIRED.

VI. TIMBER ROOF DECKING

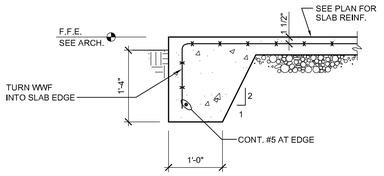
1. REFERENCE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION "STANDARD FOR TONGUE AND GROOVE HEAVY TIMBER ROOF DECKING" (AITC 112)

2. HEAVY TIMBER TONGUE AND GROOVE DECKING SHALL CONFORM WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES:
SOUTHERN PINE
Fb = 1650 PSI E = 1.6E6 PSI

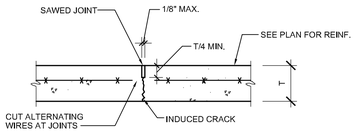
3. HEAVY TIMBER TONGUE AND GROOVE DECKING SHALL BE NOMINAL 2"x6" (TRUE DIMENSIONS 1 1/2" x 5 1/2") INSTALLED IN A CONTROLLED RANDOM LAYUP PATTERN.

4. APPLY 3/4" WOOD STRUCTURAL SHEATHING (PLYWOOD -or- OSB) TO TOP OF HEAVY TIMBER TONGUE AND GROOVE DECKING. ATTACH SHEATHING WITH 10d NAILS (1" PENETRATION INTO TIMBER DECKING) AT 4" SPACING AT ALL EDGES, AND AT 12" SPACING IN EACH DIRECTION AT THE INTERIOR OF EACH PANEL.

5. ATTACH HEAVY TIMBER TONGUE AND GROOVE DECKING TO SUPPORT STRUCTURE WITH 1/4" SCREWS AT MAXIMUM 6" SPACING. PROVIDE SCREW ATTACHMENT AT MAXIMUM 12" SPACING AT END SPAN.

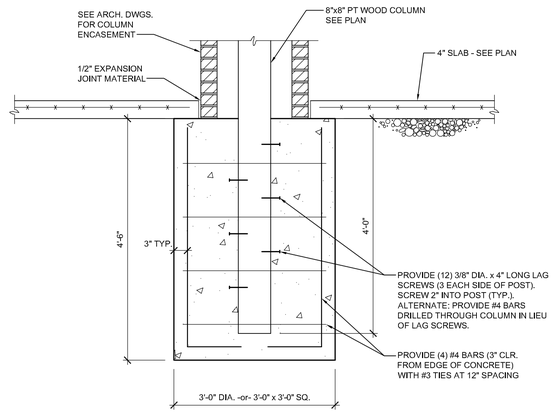


1 S3 DETAIL - SLAB EDGE
3/4" = 1'-0"

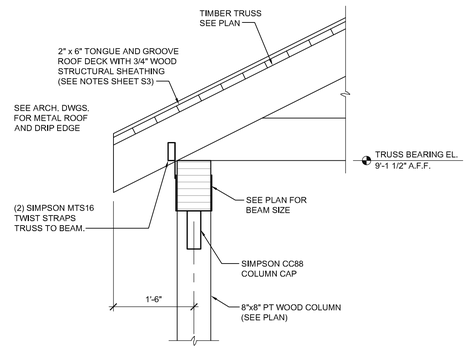


NOTES: 1. SAW JOINTS AS SOON AS CONCRETE WILL NOT RAVEL UNDER SAW BLADE.
2. ADD 20" LONG DOWELS AT ALL CONSTRUCTION JOINTS. GREASE ONE END TO ALLOW MOVEMENT.

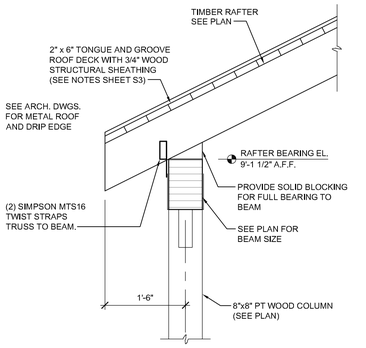
2 S3 DETAIL - TYP. SLAB CONTROL JOINT
1" = 1'-0"



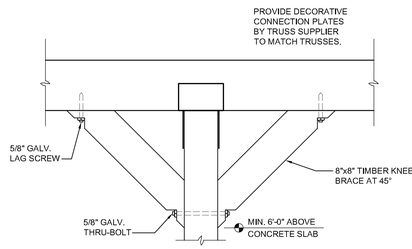
3 S3 DETAIL - POST FOUNDATION
3/4" = 1'-0"



4 S3 FRAMING SECTION
3/4" = 1'-0" TRUSS



5 S3 FRAMING SECTION
3/4" = 1'-0" RAFTER



6 S3 KNEE BRACE DETAIL
3/4" = 1'-0"

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

PROJECT TITLE
REVELS PICNIC SHELTER
5118 RAWLS CHURCH RD.
FUQUAY-VARINA, NC

PROJECT NO.
C260106

DRAWING TITLE
STRUCTURAL NOTES AND DETAILS

SHEET 0 OF 0

S3

PLOT DATE 04/20/2026
REVISION --

DIVISION 16 – ELECTRICAL

PART 1 – GENERAL

1.1 DESCRIPTION OF THE WORK

A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
   1. Electrical service and service equipment.
   2. Lighting and power distribution system.
   3. Provide lighting fixtures selected by owner with lamps to match.
   4. Wiring devices, boxes, cover plates, etc.
   5. Source of power for all items of equipment.
   6. Grounding.
   7. Other requirements and/or systems where shown.

B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.

C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:
   1. The 2020 National Electrical Code.
   2. The National Electrical Safety Code.
   3. Underwriter's Laboratories, Inc., Standards and approved listings.
   4. Electrical Testing Labatories standards.
   5. North Carolina Building Code, Latest Edition and Revisions.
   6. All local codes and ordinances.

D. The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.

E. Obtain all permits, licenses, inspections, etc., required for the work and pay for the same. Furnish final certificate of inspection and approval from the electrical inspector having jurisdiction prior to acceptance of the work.

F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his base bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.

B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough–in.

1.4 SHOP DRAWINGS

A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 – PRODUCTS AND MATERIALS

2.1 GENERAL

A. All material shall be new and shall bear the manufacturer's name, trade name, and UL label where such standard has been established for the particular material. Materials shall be the standard products of manufacturer's regularly engaged in the manufacturer of the required type of equipment and the manufacturer's latest approved design.
   1. Boxes installed in concealed locations shall be set flush with the finished surfaces.
   2. Provide rated boxes in all fire barriers & walls installed per code.

2.2 NOT USED

2.3 CONDUCTORS

A. Conductors shall be color coded, sizes #8 and larger may be color taped on the job. Color coding shall be: Standard Practice.

B. Conductors shall be manufactured by Dodge, Southwire or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be UL approved.

C. Metallic sheathed "MC" cable may be used where allowed by N.E.C.

D. Conductors shall be spliced and taped as follows:
   1. Size #10 and #12, use Ideal "Wing Nuts" or T&B "Piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
   2. Size #8 and larger shall be solderless screw and screw–clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.
   3. No split–bolt type connectors may be used.

E. All branch wire and connections shall be copper and sized per National Electric Code.

F. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.

G. All wiring in mechanical spaces shall be plenum rated.

H. Provide GFI protection within 6'–0" of any sink.

I. All multi–wire branch circuits shall comply with 2020 NEC, 210.4(B).

J. All wiring at medical facilities shall comply with 2020 NEC, 517.1.

2.4 PANELBOARDS, SAFETY SWITCHES

A. Panelboards shall comply with NEMA Standard PB 1 – Latest Edition and as manufactured by Square D or ITE–Siemens.

B. The contractor shall be responsible for correctly phasing the circuits in the panelboards.

C. Safety switches shall be general duty type, size and rating as required for lead service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.5 NOT USED

2.6 WIRING DEVICES

A. Wiring devices shall be commercial grade by Bryant, Leviton, or approved equal. With matching cover. Color by Architect.

B. Wiring devices installed under a Kitchen Hood shall have stainless steel covers.

C. Wiring devices installed over counters shall comply with ANSI A117.1.

2.7 NOT USED

2.8 CONDUIT

A. PVC conduit will be allowed where N.E.C. approved.

B. All service conduit shall be rigid where exposed below 8'–0" AFF or exposed to the elements or hazardous conditions.

PART 3 – EXECUTION

3.1 CIRCUIT GROUNDING

A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250–95 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.

3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES

A. Outlets and switches shall be solidly grounded to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut on the convenience outlet or switch.

3.3 MOTORS

A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight conduit.

3.4 NOT USED

3.5 EQUIPMENT LABELING

A. Provide permanent name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from.

B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.

C. All empty conduit runs shall be identified and indicated where they terminate.

D. Provide typewritten directory in each panelboard to clearly identify each circuit, service, etc.

3.6 NOT USED

3.7 NOT USED

3.8 JUNCTION AND/OR PULL BOXES

A. Boxes shall be installed where necessary to avoid excessive runs and/or too many bends between outlets.

3.9 PULL WIRE

A. Leave pull wire in each empty conduit run.

3.10 NOT USED

3.11 GROUNDING

A. All grounding shall be in accordance with Article 250 of the NEC. In addition, the following requirements shall be met:
   1. Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
   2. Equipment ground continuity shall be maintained through flexible metal conduit.
   3. All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.
   4. The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
   5. All equipment enclosures, and non–current–carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
   6. All equipment enclosures, and non–current–carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.

3.12 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

A. PLUMBING WORK: The Electrical Contractor shall furnish and install switches and devices as shown and electrically connect electric water heaters, etc. All other electrical work required will be performed by the PLUMBING CONTRACTOR.

B. HEATING AND AIR CONDITIONING WORK: The Electrical Contractor shall provide all disconnect switches, starters, and associated hardware for the equipment furnished including all line and load side wiring and conduit. Final connections to the equipment will be by the HVAC contractor. All control wiring will be accomplished by the HVAC contractor. Coordinate all work associated with the HVAC contractor.

3.13 CLEAN UP

A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

3.14 GUARANTEE

A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

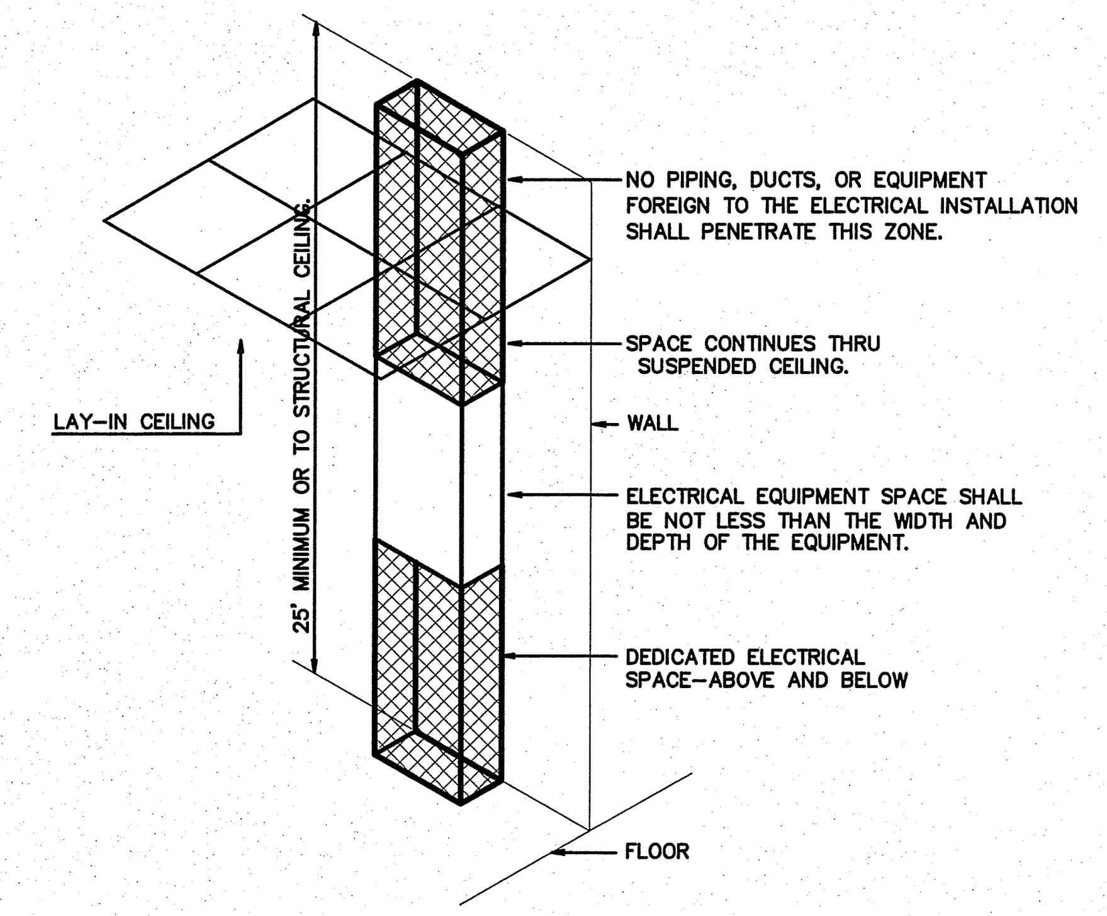
12 PROVIDE BOXES, JACKS, WIRING AND CONDUIT FROM LOCATIONS SHOWN TO MTP LOCATION. VERIFY EXACT REQUIREMENTS WITH OWNER.

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

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

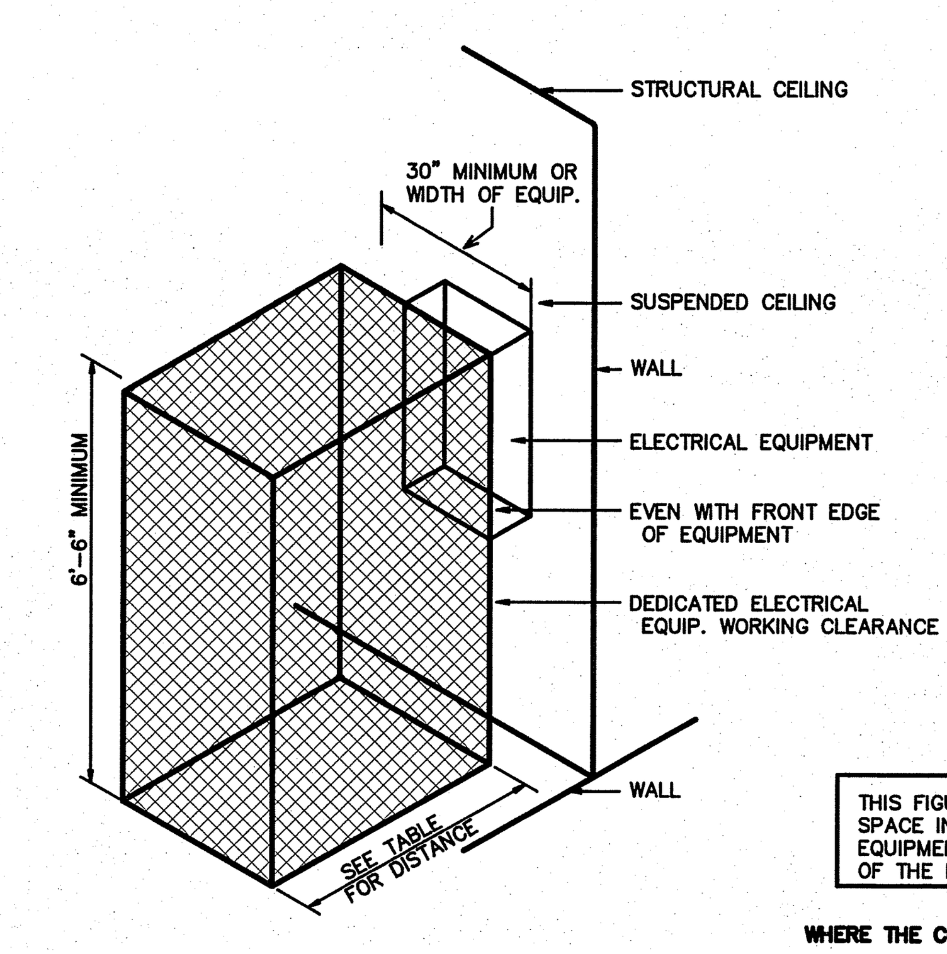
ELECTRICAL LEGEND

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



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

1 DEDICATED SPACE
SCALE: NTS



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

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

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

WHERE THE CONDITIONS ARE AS FOLLOWS:

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

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

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

2 ELECTRICAL CLEARANCES
SCALE: NTS

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL — SCOTT W. BURKE
9/13/26

PROJECT TITLE
REVELS PICNIC SHELTER
5118 RAWLS CHURCH ROAD
FUQUAY VARINA, NORTH CAROLINA

PROJECT NO.
2614

DRAWING TITLE
ELECTRICAL NOTES

E1

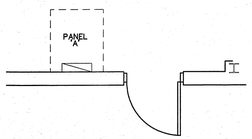
PLOT DATE 04/13/2026

Revels Picnic Shelter E2

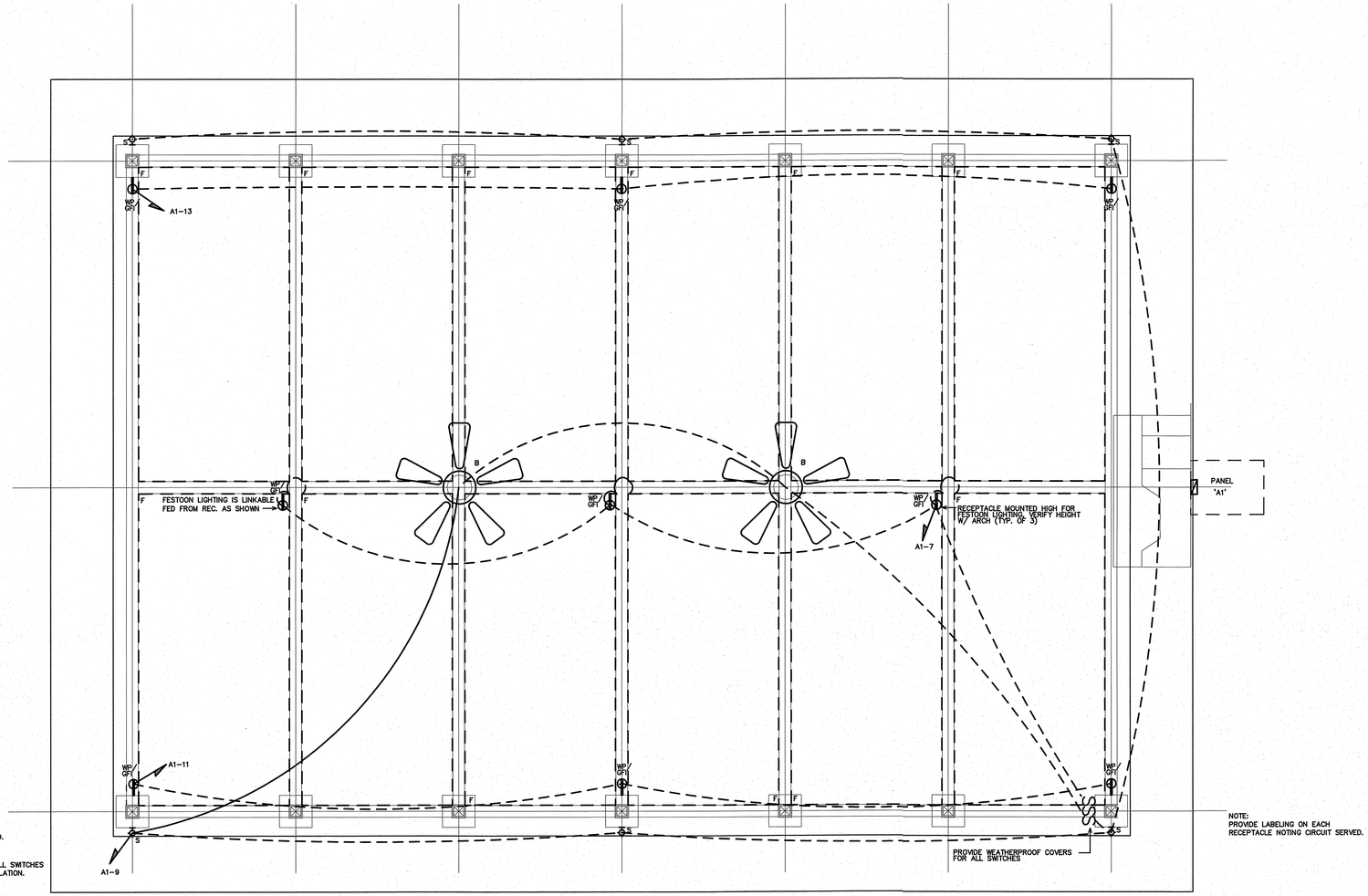
LIGHTING SCHEDULE *

MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO.	LAMPS TYPE	LAMPS W	BALLAST TYPE	W/ FIXTURE	REMARKS
B	BIG ASS FANS	MK-161-08-19-06-A728-S2-V54	120	–	–	–	–	36	COVERED OUTDOOR CEILING FAN
F	HARBOR-BREEZE	SLL96BK(48)	120	–	LED	–	–	.4/FT	FESTIVE STRING LIGHTING *
S	CHOSEN BY OWNER/ARCH; PROVIDED BY EC		120	–	LED	–	–	40	EXTERIOR SCONCE LIGHT ($150 ALLOWANCE) *

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



2 REVELS STORAGE ELEC. PANEL
SCALE: 1/4" = 1'-0"



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

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NORTH CAROLINA PROFESSIONAL ENGINEER SCOTT W. BURKE
4/13/26

PROJECT TITLE
REVELS PICNIC SHELTER

5118 RAWLS CHURCH ROAD
FUQUAY VARINA, NORTH CAROLINA

PROJECT NO.
2614

DRAWING TITLE
ELECTRICAL PLAN

E2

PLOT DATE 04/13/2026

Revels Picnic Shelter E3

NEW PANEL- 'A1'

NEMA 3R

MAKE: EATON	RATING: 120/240V 1 PHASE 3 WIRE	MLO MAIN CIRCUIT BREAKER	
TYPE: CH LOAD CENTER OR APPROVED EQUAL	MOUNTING: SURFACE	EQUIPMENT GROUND BUS	☒YES ☐NO
	MINIMUM AIC: 22000A	SERVICE ENTRY RATED	☐YES ☒NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
FESTOON LTS	20A	269		1	2	---			SPACE
FAN/SCONCE LTS	20A		312	3	4		---		SPACE
REC.	20A	540		5	6	---			SPACE
REC.	20A		540	7	8		---		SPACE
SPARE	20A	---		9	10	---			SPACE
SPARE	20A		---	11	12		---		SPACE
SPARE	20A	---		13	14	---			SPACE
SPARE	20A		---	15	16		---		SPACE
SPARE	20A	---		17	18	---			SPACE
SPACE			---	19	20		---		SPACE
SPACE		---		21	22	---			SPACE
SPACE			---	23	24		---		SPACE
SPACE		---		25	26	---			SPACE
SPACE			---	27	28		---		SPACE
SPACE		---		29	30	---			SPACE
SPACE			---	31	32		---		SPACE
SPACE		---		33	34	---			SPACE
SPACE			---	35	36		---		SPACE
SPACE		---		37	38	---			SPACE
SPACE			---	39	40		---		SPACE
SPACE		---		41	42	---			SPACE
NOTES	SUB-TOTALS 'B'	809	852						

NOTES: NEMA 3R

		A	B		
100A	BUS	---	---	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
100A	LUGS	809	852	SUB-TOTALS 'B'	
100A	FEED	809	852	GRAND TOTAL	
VERIFY	SIZE	7A	7A	AMPS/PHASE	

NEC ALLOWABLE DEMAND FACTORS

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

DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR (1)	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING (2)		125%	336	390	726
TRACK LIGHTING		125%	---	---	---
GENERAL USE RECEPTACLES		≤10KVA@100%	540	540	1080
		>10KVA@50%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	---	---	---
	ALL OTHERS	100%	---	---	---
WATER HEATERS		125%	---	---	---
KITCHEN EQUIPMENT (3)		100%	---	---	---
FIX. ELEC. SPACE HEAT. (4)		100%	---	---	---
SHOW WINDOW LIGHTS (5)		125%	---	---	---
SIGN		125%	---	---	---
MISC		100%	---	---	---
PHASE		(TOTAL VA)	876	930	1806
		TOTAL AMPS	7A	8A	VOLT AMPS / VOLTS = 8A TOTAL AMPS

Revels Picnic Shelter E3

EXIS. PANEL- 'A'

MAKE: EATON	RATING: 120/240 1 PHASE 3 WIRE	200A MAIN CIRCUIT BREAKER	
TYPE: CH LOAD CENTER	MOUNTING: SURFACE	EQUIPMENT GROUND BUS	☒YES ☐NO
	MINIMUM AIC: VERIFY	SERVICE ENTRY RATED	☒YES ☐NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
LTS- HIGH BAYS	20A	1500		1	2	540		20A	REC- GENERAL
LTS- HIGH BAYS	20A		1500	3	4		540	20A	REC- GENERAL
LTS- EXTERIOR	20A	34		5	6	---		20A	SPARE
SPARE	20A		---	7	8		---	20A	SPARE
SPARE	20A	---		9	10	---		20A	SPARE
SPARE	20A		---	11	12		---	20A	SPARE
SPARE	20A	---		13	14	---		20A	SPARE
SPARE	20A		---	15	16		---	20A	SPARE
SPARE	20A	---		17	18	---		20A	SPARE
SPACE			---	19	20		---		SPACE
SPACE		---		21	22	---			SPACE
SPACE			---	23	24		---		SPACE
SPACE		---		25	26	---			SPACE
SPACE			---	27	28		---		SPACE
SPACE		---		29	30	---			SPACE
NOTES	SUB-TOTALS 'B'	1534	1500						

		A	B		
200A	BUS	540	540	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
200A	LUGS	1534	1500	SUB-TOTALS 'B'	
200A	FEED	2074	2040	GRAND TOTAL	
VERIFY	SIZE	17A	17A	AMPS/PHASE	

Revels Picnic Shelter E3

REVISED PANEL- 'A'

MAKE: EATON	RATING: 120/240 1 PHASE 3 WIRE	200A MAIN CIRCUIT BREAKER	
TYPE: CH LOAD CENTER	MOUNTING: SURFACE	EQUIPMENT GROUND BUS	☒YES ☐NO
	MINIMUM AIC: VERIFY	SERVICE ENTRY RATED	☒YES ☐NO

LOAD SERVICE	CKT BRKR	WATTS PER PHASE A	WATTS PER PHASE B	CKT NO	CKT NO	WATTS PER PHASE A	WATTS PER PHASE B	CKT BRKR	LOAD SERVICE
LTS- HIGH BAYS	20A	1500		1	2	540		20A	REC- GENERAL
LTS- HIGH BAYS	20A		1500	3	4		540	20A	REC- GENERAL
LTS- EXTERIOR	20A	34		5	6	---		20A	SPARE
SPARE	20A		---	7	8		---	20A	SPARE
SPARE	20A	---		9	10	---		20A	SPARE
SPARE	20A		---	11	12		---	20A	SPARE
SPARE	20A	---		13	14	---		20A	SPARE
SPARE	20A		---	15	16		---	20A	SPARE
SPARE	20A	---		17	18	---		20A	SPARE
SPACE			---	19	20		---		SPACE
SPACE		---		21	22	---			SPACE
SPACE			---	23	24		---		SPACE
SPACE		---		25	26	---			SPACE
PANEL A1	100A		852	27	28		---		SPACE
		809		29	30	---			SPACE
NOTES	SUB-TOTALS 'B'	2343	2352						

NOTES: EXISTING / NEW

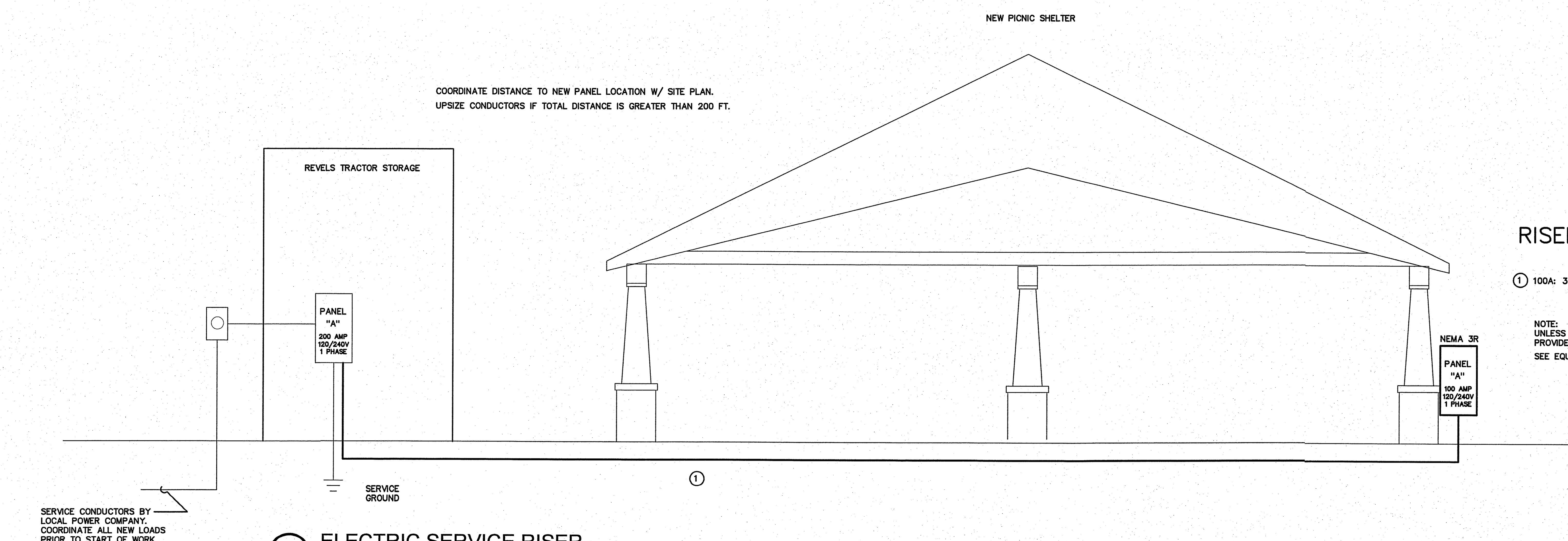
		A	B		
200A	BUS	540	540	SUB-TOTALS 'A'	TOTAL CONNECTED LOAD
200A	LUGS	2343	2352	SUB-TOTALS 'B'	
200A	FEED	2883	2892	GRAND TOTAL	
VERIFY	SIZE	24A	24A	AMPS/PHASE	

NEC ALLOWABLE DEMAND FACTORS

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

DIVERSIFIED LOAD SUMMARY

LOAD TYPE		DEMAND FACTOR (1)	A	B	TOTAL DIVERSIFIED LOAD
GENERAL LIGHTING (2)		125%	2254	2265	4519
TRACK LIGHTING		125%	---	---	---
GENERAL USE RECEPTACLES		≤10KVA@100%	1080	1080	2160
		>10KVA@50%	---	---	---
MOTORS AND EQUIPMENT	LARGEST	125%	---	---	---
	ALL OTHERS	100%	---	---	---
WATER HEATERS		125%	---	---	---
KITCHEN EQUIPMENT (3)		100%	---	---	---
FIX. ELEC. SPACE HEAT. (4)		100%	---	---	---
SHOW WINDOW LIGHTS (5)		125%	---	---	---
SIGN		125%	---	---	---
MISC		100%	---	---	---
PHASE		(TOTAL VA)	3334	3345	6679
		TOTAL AMPS	28A	28A	VOLT AMPS / VOLTS = 28A TOTAL AMPS



1 ELECTRIC SERVICE RISER
SCALE: NOT TO SCALE

RISER WIRING SCHEDULE

(1) 100A: 3-#3, 1-#8 CU GND, IN 1 1/4" CONDUIT

NOTE:
UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT.
PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT.

SEE EQUIPMENT SCHEDULES FOR ADDITIONAL WIRE SIZES.

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 050127 SCOTT W. BURKE
4/13/26

PROJECT TITLE
REVELS PICNIC SHELTER

5118 RAWLS CHURCH ROAD
FUQUAY VARINA, NORTH CAROLINA

PROJECT NO.
2614

DRAWING TITLE
ELCTRICAL PANELS/SERVICE

E3

PLOT DATE 04/13/2026