



SITE DIAGRAM

NOT TO SCALE



PROJECT TEAM:

ARCHITECTURE:
(PRIMARY CONTACT)

LFK ARCHITECTS, LLC
886 JOHNNIE DODDS BLVD
SUITE 200
MOUNT PLEASANT, SC 29464

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STRUCTURAL:

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SUMMERVILLE HS SOFTBALL PRESS BOX

FOR OSF APPROVAL

November 4th, 2024

SCOPE OF PROPOSED CONSTRUCTION

THE PROJECT IS A NEW TWO-STORY, 1056 SF GROSS, HIGH SCHOOL SOFTBALL PRESS BOX. WOOD AND CONCRETE BLOCK, SLAB-ON-GRADE CONSTRUCTION.

PROJECT NOTES

1. THE CONTRACTOR SHALL REVIEW AND APPLY THE CONSTRUCTION REQUIREMENTS AS DESCRIBED IN THE CODE ANALYSIS FOR THIS PROJECT. THE CONTRACTOR SHALL REQUEST CLARIFICATION FOR ANY QUESTIONS FROM THE PROJECT ARCHITECT BEFORE BEGINNING WORK.
2. THE CONTRACTOR SHALL OBTAIN SPECIFICATIONS FROM ALL MATERIAL SUPPLIER/MANUFACTURER ENSURING ALL MATERIALS USED FOR CONSTRUCTION MEET MINIMUM FLAME-SPREAD INDEX AND SMOKE-DEVELOPMENT INDEX AS IDENTIFIED IN THE CODE REVIEW. SPECIFICATIONS SHALL BE COPIED TO ARCHITECT BEFORE BEGINNING WORK.
3. THE GENERAL CONTRACTOR SHALL BE IN CHARGE AND TAKE RESPONSIBILITY OF ALL SUB CONTRACTORS AND TRADES ON SITE.
4. BUILDING SIGNAGE DESIGN BY OTHERS.
5. FAILURE OF OWNER OR CONTRACTOR TO NOTIFY ARCHITECT OF ANY DEVIATIONS FROM CONSTRUCTION DOCUMENTS OR FAILURE TO SUBMIT REQUIRED SUBMITTALS RELIEVES THE ARCHITECT OF ANY AND ALL LIABILITY AND COST ASSOCIATED WITH THAT SUBMITTAL OR DEVIATION.
6. ALL DRAWINGS ARE TO BE ISSUED AS ONE SET, NOT SEPARATED.
7. DRAWINGS ARE NOT INTENDED TO BE SCALED.
8. EXISTING FIELD CONDITIONS TO BE VERIFIED PRIOR TO CONSTRUCTION.
9. THE ARCHITECT IS TO BE NOTIFIED OF ANY VARIATIONS FROM THE DRAWING SPECIFICATIONS.
10. ALL STRUCTURAL DRAWINGS AND SPECIFICATIONS INCLUDED IN THIS DRAWING SET ARE SPECIFIC TO THIS PARTICULAR SITE LOCATION/BUILDING ONLY AND ARE PROPERTY OF LFK ARCHITECTS, LLC. ANY UNAUTHORIZED USE OR REPRODUCTION OF THIS INFORMATION IS SUBJECT TO LEGAL PROSECUTION.
11. LFK ARCHITECTS, LLC HAS NOT BEEN CONTRACTED FOR FULL TIME ON SITE CONSTRUCTION ADMINISTRATION.
12. COPYRIGHT © 2024 LFK ARCHITECTS, LLC

DRAWING INDEX:

G001	COVER SHEET, INDEX, NOTES, CODE REVIEW
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CIVIL (BY ADC ENGINEERING)

ARCHITECTURAL

A001	CODE REVIEW
A002	ADA REQUIREMENTS
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PLUMBING

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P2	PLUMBING AND SANITARY PLAN

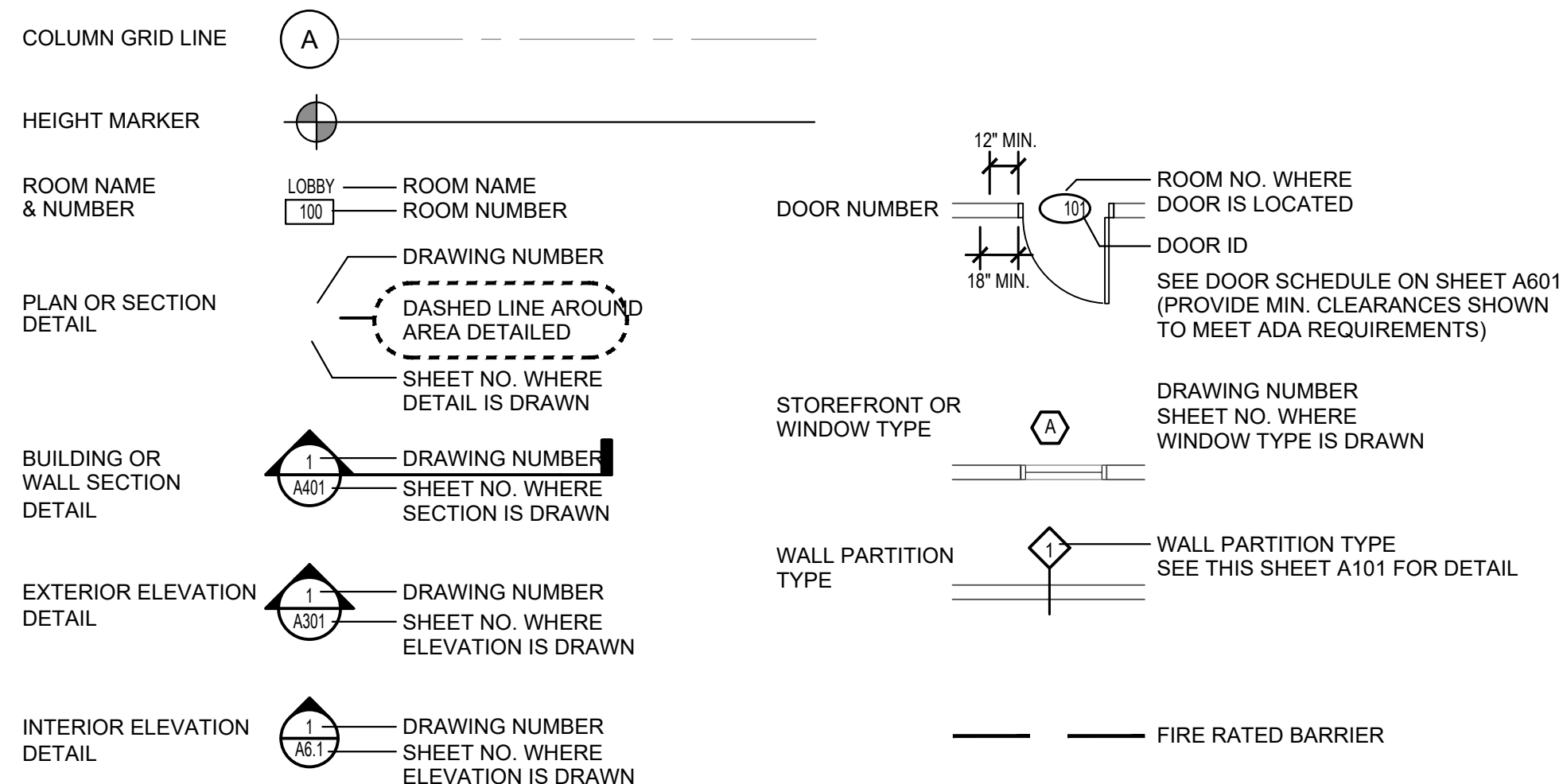
ATTACHMENTS

PHOTOMETRICS
FORM F3

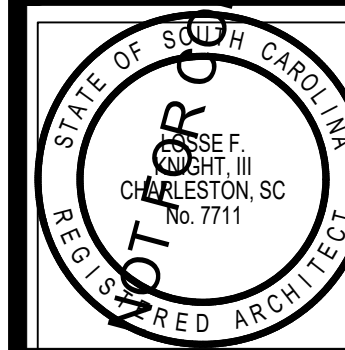
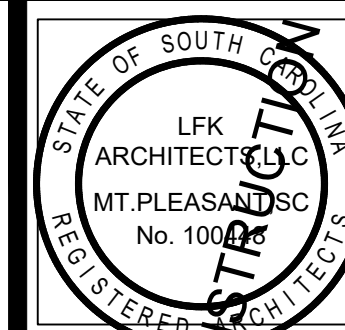


3D MODEL VIEW

ARCHITECTURAL SYMBOLS:



2425-009
Attachment E



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JOB NUMBER: 24-000	DRAWN: LJR	CHECKED: LFK
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REVISIONS:

SUMMERVILLE SOFTBALL BOX

SUMMERVILLE HIGH SCHOOL

COVER SHEET, INDEX, & NOTES

SHEET NUMBER & TITLE:

G001

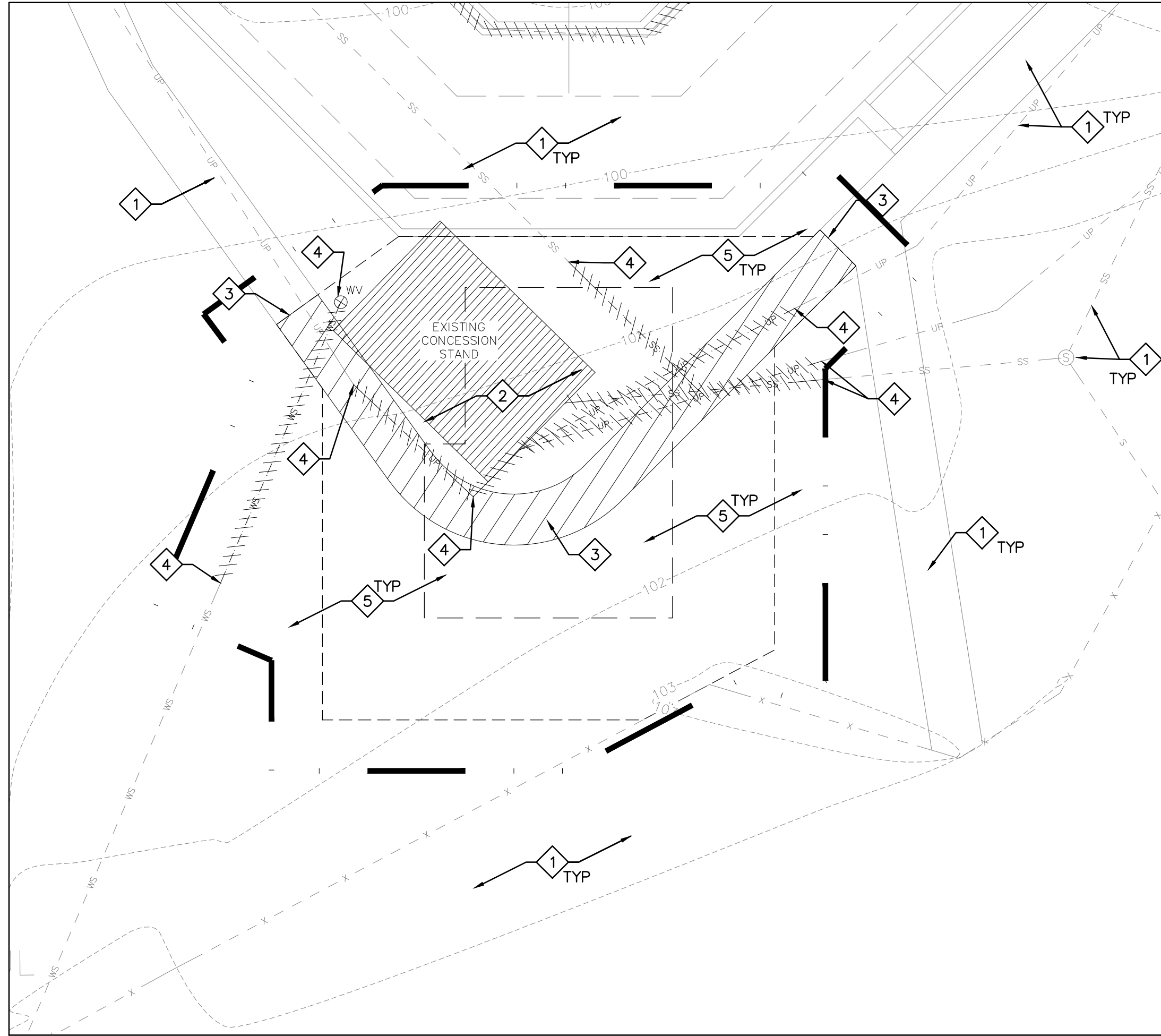
OSF DOC
11.04.24

Reviewed For Code Compliance

This set of Construction Documents [plans and/or specifications] has been reviewed for compliance with the Office of School Facilities (OSF) requirements prescribed in the applicable edition of the South Carolina School Facilities Planning and Construction Guide. Any changes or alterations to these documents shall be approved by the OSF, as the State Superintendent of Education's designee. This review for code compliance does not relieve the design professional representing the school district from code omissions as interpreted by the OSF; nor the owner, contractor or their representatives from the responsibility to comply with all OSF requirements including its adopted codes and standards, as well as any applicable requirements from other Federal, State, and Local authorities having jurisdiction, in effect at the time of the School Building Permit issuance. This plan review does not prevent this office from requiring corrections during construction to meet code requirements.

Stamped Plans and Specifications are required to be on site for inspections.

OSF Plan Reviewer: *Kevin J. Hilly* Date: 24-NOV-19
SC Department of Education – Office of School Facilities
Electronic Stamp



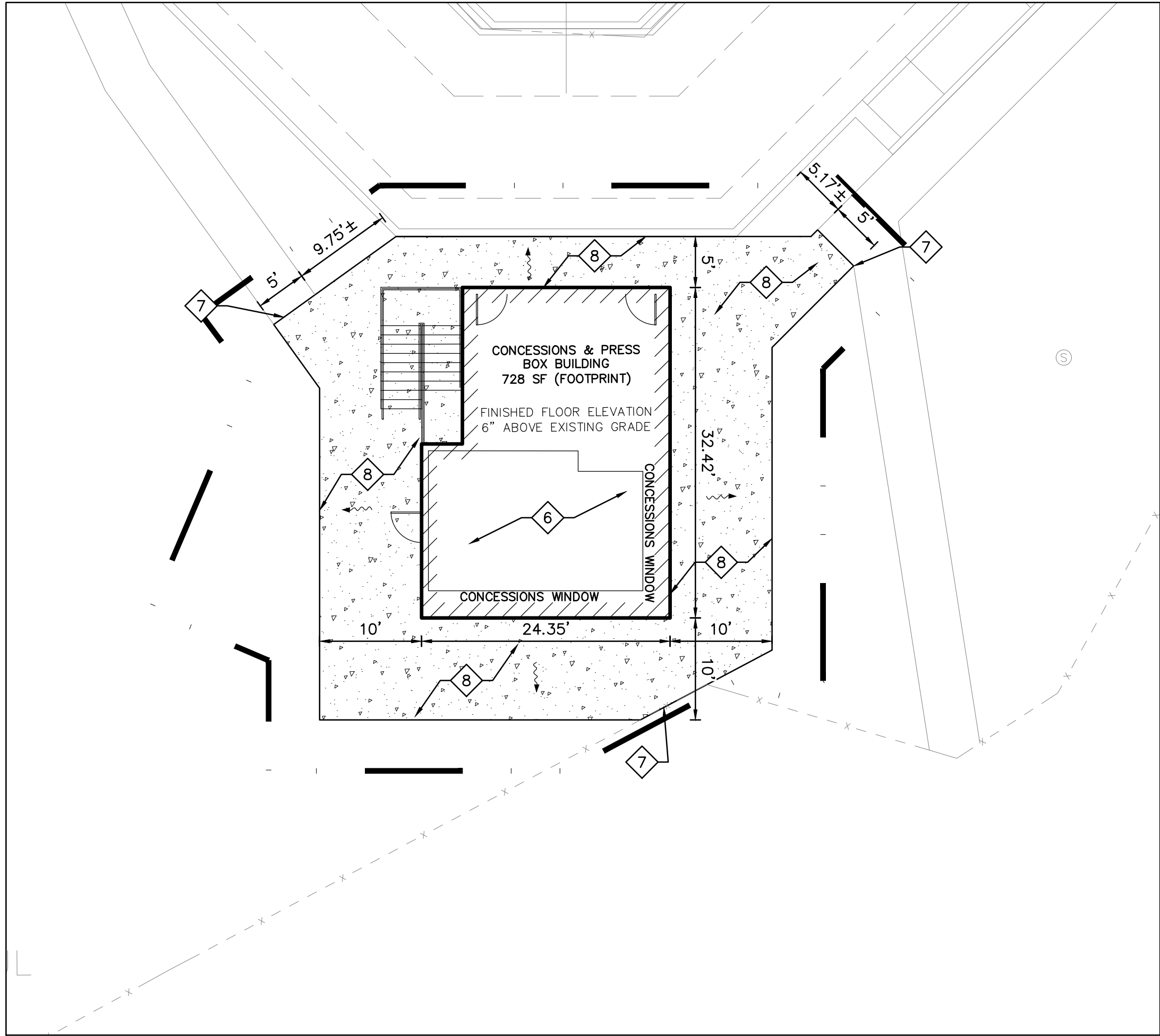
EXISTING SITE & DEMOLITION PLAN

SCALE: 1" = 10'



HYDRANT LOCATION PLAN

SCALE: 1" = 50'



NEW SITE & GRADING PLAN

SCALE: 1" = 10'



SITE LOGISTICS PLAN

SCALE: 1" = 10'

KEYNOTES:

1. PROTECT BUILDINGS, PAVEMENTS, UTILITIES, FACILITIES, ETC. TO REMAIN FOR THE DURATION OF CONSTRUCTION. ANY ITEMS TO REMAIN THAT ARE DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
2. REMOVE BUILDING IN ITS ENTIRETY, INCLUDING FOUNDATIONS. DISPOSE OF BUILDING MATERIALS OFF-SITE IAW LOCAL, STATE AND FEDERAL REGULATIONS.
3. REMOVE SIDEWALK WITHIN LIMITS SHOWN AND TO NEAREST JOINT. PROVIDE FULL DEPTH SAW CUT AT LIMITS OF REMOVAL.
4. REMOVE UTILITIES WITHIN THE PROPOSED BUILDING FOOTPRINT.
5. STRIP TOPSOIL AND VEGETATION AND COMPACT SUBGRADE IN PREPARATION OF NEW CONSTRUCTION SHOWN ON THIS SHEET.
6. REFER TO THE ARCHITECTURAL DRAWINGS FOR BUILDING/STAIR REQUIREMENTS.
7. MATCH EXISTING ELEVATIONS AT SIDEWALK TIE-IN.
8. GRADE SIDEWALK AWAY FROM PROPOSED BUILDING AT 1% MINIMUM, 2% MAXIMUM SLOPE.

EXISTING SITE LEGEND

- X --- FENCE
- - - - - CONTOUR LINE
- W - WATER SERVICE W/ VALVE
- S - SANITARY SEWER MANHOLE
- S - SANITARY SEWER MAIN
- S - SANITARY SEWER SERVICE
- LP - LIGHT POLE
- UP - POWER LINE (UNDERGROUND)
- - - - - LIMITS OF CONSTRUCTION/ LIMITS OF DISTURBANCE

DEMOLITION LEGEND

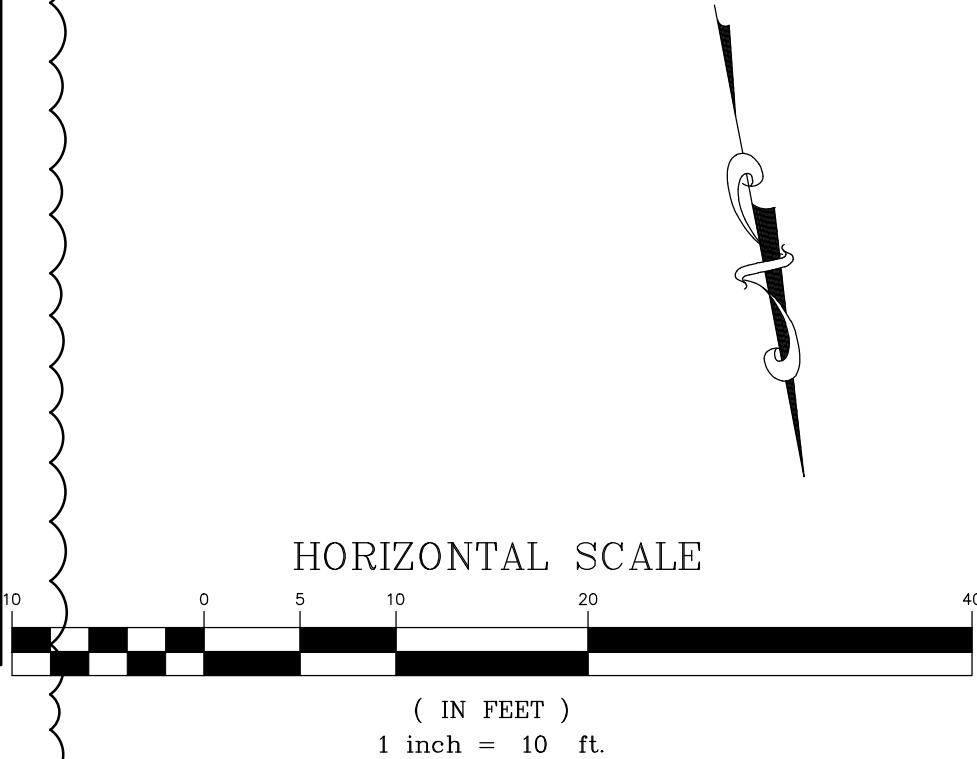
- [Hatched Box] STRUCTURE/FEATURE TO BE DEMOLISHED
- [Hatched Line] UTILITY TO BE DEMOLISHED

CIVIL LEGEND — SITE & GRADING

- [Concrete Box] CONCRETE SIDEWALK — INSTALL 4" THICK, 3,000 PSI CONCRETE.
- [Arrow] DRAINAGE FLOW ARROW

SITE LOGISTICS NOTES:

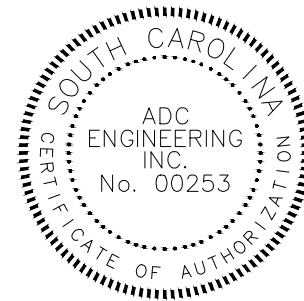
1. DELIVERIES SHALL ONLY BE MADE BETWEEN THE HOURS OF 10:00 AM AND 2:00 PM.
2. AT NO TIME SHALL DELIVERIES OR CONTRACTOR OPERATIONS BLOCK OR INTERFERE WITH THE ADJACENT DRIVE AISLE OR SCHOOL PARKING.



Summerville Highschool
Summerville, South Carolina

SUMMERVILLE HIGH SCHOOL
SOFTBALL FIELD IMPROVEMENTS

SUMMERVILLE
SOUTH CAROLINA



ADC
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ADCENGINEERING.COM

DATE:	06/28/2024
ADC PROJECT #:	22328
DESIGNED:	STROPE
CHECKED:	JONES
DRAWN:	STROPE
REVISION:	
1	10/31/2024 — OSF COMMENTS

EXISTING SITE,
DEMOLITION, SITE
& GRADING PLAN

C201
SHEET # OF #

TABLE 502.3
BUILDING ENVELOPE REQUIREMENTS: FENESTRATION

CLIMATE ZONE	1	2	3	4 EXCEPT MARINE	5 AND MARINE 4	6	7	8
Vertical fenestration (40% maximum of above-grade wall)								
U-factor								
Framing materials other than metal with or without metal reinforcement or cladding								
U-factor	1.20	0.75	0.65	0.40	0.35	0.35	0.35	0.35
Metal framing with or without thermal break								
Curtain wall/storefront U-factor	1.20	0.70	0.60	0.50	0.45	0.45	0.40	0.40
Entrance door U-factor	1.20	1.10	0.90	0.85	0.80	0.80	0.80	0.80
All other U-factor ^a	1.20	0.75	0.65	0.55	0.55	0.55	0.45	0.45
SHGC-all frame types								
SHGC: PF < 0.25	0.25	0.25	0.25	0.40	0.40	0.40	0.45	0.45
SHGC: 0.25 ≤ PF < 0.5	0.33	0.33	0.33	NR	NR	NR	NR	NR
SHGC: PF ≥ 0.5	0.40	0.40	0.40	NR	NR	NR	NR	NR
Skylights (3% maximum)								
U-factor	0.75	0.75	0.65	0.60	0.60	0.60	0.60	0.60
SHGC	0.35	0.35	0.35	0.40	0.40	0.40	NR	NR

NR = No requirement.
PF = Projection factor (see Section 502.3.2).
a. All others includes operable windows, fixed windows and nonentrance doors.

2009 INTERNATIONAL ENERGY CONSERVATION CODE® COMMENTARY

5-15

TABLE 502.2(1)
BUILDING ENVELOPE REQUIREMENTS - OPAQUE ASSEMBLIES

CLIMATE ZONE	1		2		3		4 EXCEPT MARINE		5 AND MARINE 4		6		7		8	
	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R	All other	Group R
Roofs																
Insulation entirely above deck	R-15ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-20ci	R-25ci	R-25ci	R-25ci	R-25ci
Metal buildings (with R-5 thermal blocks ^{a,b})	R-19	R-19	R-13 + R-13	R-13 + R-13	R-13 + R-13	R-19	R-13 + R-13	R-19	R-13 + R-13	R-19	R-13 + R-19	R-19	R-13 + R-10	R-19 + R-10	R-11 + R-19	R-19 + R-10
Attic and other	R-30	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-38	R-49	R-49
Walls, Above Grade																
Mass	NR	R-5.7ci	R-5.7ci	R-7.6ci	R-7.6ci	R-9.5ci	R-9.5ci ^c	R-11.4ci	R-11.4ci	R-13.3ci	R-13.3ci	R-15.2ci	R-15.2ci	R-15.2ci	R-25ci	R-25ci
Metal building ^b	R-16	R-16	R-16	R-16	R-19	R-19	R-19	R-19	R-13 + R-5.6ci	R-13 + R-5.6ci	R-13 + R-5.6ci	R-13 + R-5.6ci	R-19 + R-5.6ci	R-19 + R-5.6ci	R-19 + R-5.6ci	R-19 + R-5.6ci
Metal framed	R-13	R-13	R-13	R-13+ 7.5ci	R-13 + R-3.8ci	R-13 + R-7.5ci	R-13 + 7.5	R-13 + R-7.5ci	R-13 + R-7.5 ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + R-15.6ci	R-13 + R-7.5 ci	R-13 + R-18.8ci	R-13 + R-18.8ci
Wood framed and other	R-13	R-13	R-13	R-13	R-13	R-13	R-13+ R-3.8ci	R-13 + R-3.8ci	R-13 + 3.8	R-13 + 7.5	R-13 + R-7.5ci	R-13 + R-7.5ci	R-13 + 7.5ci	R-13 + 15.6ci	R-13 + 15.6ci	R-13 + 15.6ci
Walls, Below Grade																
Below grade wall ^d	NR	NR	NR	NR	NR	NR	NR	R-7.5ci	R-7.5ci	R-7.5ci	NR R-7.5ci	R-7.5ci	R-7.5ci	R-10ci	R-7.5ci	R-12.5ci
Floors																
Mass	NR	NR	R-6.3ci	R-8.3ci	R-6.3ci	R-8.3ci	R-10ci	R-10.4ci	R-10ci	R-12.5ci	R-12.5ci	R-14.6ci	R-15ci	R-16.7ci	R-15ci	R-16.7ci
Joist/framing Steel/wood	NR	NR	R-19	R-30	R-19	R-30	R-30	R-30	R-30	R-30	R-30	R-30 ^e	R-30	R-30 ^e	R-30 ^e	R-30 ^e
Slab-on-Grade Floors																
Unheated slabs	NR	NR	NR	NR	NR	NR	NR	R-10 for 24 in. below	NR	R-10 for 24 in. below	R-10 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-20 for 24 in. below
Heated slabs	R-7.5 for 12 in. below	R-7.5 for 12 in. below	R-7.5 for 12 in. below	R-7.5 for 12 in. below	R-10 for 24 in. below	R-10 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-15 for 24 in. below	R-20 for 24 in. below	R-20 for 48 in. below	R-20 for 24 in. below	R-20 for 48 in. below	R-20 for 48 in. below	R-20 for 48 in. below
Opaque doors																
Swinging	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.70	U – 0.50	U – 0.50	U – 0.50
Roll-up or sliding	U – 1.45	U – 1.45	U – 1.45	U – 1.45	U – 1.45	U – 1.45	U – 0.50	U – 0.50	U – 0.50	U – 0.50	U – 0.50	U – 0.50	U – 0.50	U – 0.50	U – 0.50	U – 0.50

For SI: 1 inch = 25.4 mm.
ci = Continuous insulation. NR = No requirement.
a. When using R-value compliance method, a thermal spacer block is required, otherwise use the U-factor compliance method. [see Tables 502.1.2 and 502.2(2)].
b. Assembly descriptions can be found in Table 502.2(2).
c. R-5.7 ci is allowed to be substituted with concrete block walls complying with ASTM C 90, ungrouted or partially grouted at 32 inches or less on center vertically and 48 inches or less on center horizontally, with ungrouted cores filled with material having a maximum thermal conductivity of 0.44 Btu-in./h·ft²·F.
d. When heated slabs are placed below grade, below-grade walls must meet the exterior insulation requirements for perimeter insulation according to the heated slab-on-grade construction.
e. Steel floor joist systems shall to be R-38.

SECTION 804 INTERIOR FLOOR FINISH:

Interior floor finishes and covering materials required by section 804.4.2 to be of Class I or II materials shall be classified in accordance with NFPA 253.

SECTION 806 COMBUSTIBLE DECORATIVE MATERIALS & TRIM:

The permissible amount of decorative materials meeting the flame propagation performance criteria of NFPA 701 shall not exceed 10% of the aggregate area of walls and ceilings.

Interior Trim shall have a minimum Class C flame spread rating and smoke developed index when tested in accordance with ASTM E 84.

NOTE: CONTRACTOR TO ONLY PURCHASE OR INSTALL INTERIOR FINISH SELECTION THAT MEET REQUIRED FLAME SPREAD RATINGS. CONTRACTOR TO PROVIDE MFGR'S CUT SHEET INDICATING CONFORMANCE AND TESTING.

SECTION 906 PORTABLE FIRE EXTINGUISHERS:

Assuming Use Groups B:
Required (1) PER FLOOR - see Life Safety Plan A002
Portable Fire Extinguishers shall be selected and installed per NFPA 10 and local code requirements.
Extinguisher Type Required: 2-A (minimum)

Portable fire extinguishers shall be provided in occupancies and locations as required by the International Fire Code and as approved by the building official.
(*SEE LIFESAFETY PLAN FOR FIRE EXTINGUISHER LOCATIONS)

CHAPTER 10 - MEANS OF EGRESS

Table 1004.1.2 - Design Occupant Load

1st Floor (B): 5
2nd Floor (B): 3

TABLE 1006.3.4(2) STORIES WITH ONE EXIT OR ACCESS TO ONE EXIT
2ND STORY
MAXIMUM OCCUPANT LOAD PER STORY: 29
MAXIMUM EXIT ACCESS TRAVEL DISTANCE: 75 FEET

2ND STORY COMPLIANT WITH ONE EXIT

SECTION 1008 MEANS OF EGRESS ILLUMINATION

1008.3.2 Buildings:
In the event of power supply failure in buildings that require two or means of egress, an emergency electrical system shall automatically illuminate: interior exit stairways, vestibules and areas on the level of discharge used for exit discharge. Provided, see Electrical Engineering Drawings.

SECTION 1010 DOORS, GATES & TURNSTILES

1010.1.1 Size of Doors
The minimum width of each door opening shall be sufficient for the occupant load thereof and shall provide a clear width of 32 inches. Clear openings of doorways with swinging doors shall be measured between the face of the door and the stop, with the door open 90 degrees.
**All doors meet this requirement

SECTION 1013 EXIT SIGNS

1013.3 Illumination
Exit signs shall be internally or externally illuminated.

SECTION 1017 EXIT ACCESS (Table 1017.2, fully-sprinklered)

Occupancies B
Max. Exit Access Travel Distance = 250ft
[Compliant - Travel Distance is less than 250 ft. See Life Safety Plan]

CODE REVIEW FOR SUMMERVILLE HIGH SCHOOL PRESS BOX:

The code analysis is conducted under the 2021 International Building Code (IBC), with SC amendments. Note: this review is intended primarily to determine the architectural design requirements for this project and is subject to review by the Local Building/Code Official. Drawings by LFK Architects, are inclusive of architectural code and accessibility review only -- all other requirements pertinent to Building Design, Structural design and MEP design are by others.

APPLICABLE CODES:
2021 International Building Code with SC adopted amendments
2021 International Fire Code
2021 International Plumbing Code
2021 International Mechanical Code
ANSI A 117.1-2017
2017 National Electric Code
2009 International Energy Code

SCOPE OF PROPOSED CONSTRUCTION:
The overall project is comprised of the following:
1 story building total 1,056 sf, Type VB construction, non-sprinklered, occupancy - Business (B)

CHAPTER 3: USE & OCCUPANCY CLASSIFICATION:
Section 304.1 Business (B)

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS
BASED ON: (VB Construction Type)

Business (B)

TABLE 504.3: ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE:
OCCUPANCY CLASSIFICATION: B and M
ALLOWABLE HEIGHT: 40'
[The Proposed Building is 22'-8 1/2" at primary ridge - Compliant]

TABLE 504.4: ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE:

OCCUPANCY CLASSIFICATION: B
ALLOWABLE STORIES: 2

[The Proposed Building is 2 story, Compliant]

TABLE 506.2: ALLOWABLE AREA DETERMINATION:

OCCUPANCY CLASSIFICATION ALLOWABLE AREA
B 9000 SF per floor
Building is 1056 sf gross, single story, compliant.

CONSTRUCTION CLASSIFICATION

Table 601 - Fire Resistance rating requirements for building elements (hours)

Type V B
Structural Frame 0 hours
Interior bearing/non-bearing walls 0 hours
Exterior non-bearing walls 0 hours
Exterior bearing walls 0 hours
Floor construction 0 hours
Roof construction 0 hours

TABLE 602 - Fire Resistance Ratings for Exterior Walls based on Fire Separation Distance
VB CONSTRUCTION, GROUP ("B"):
Greater than 10': NO RATING REQUIRED - see site plan by others.

CHAPTER 7 FIRE AND SMOKE PROTECTION FEATURES

SECTION 718: CONCEALED SPACES: ALL REQUIREMENTS OF THIS SECTION SHALL BE PROVIDED.

718.2 FIREBLOCKING:

In Combustible Construction, Fireblocking shall be installed to cut off concealed draft openings (both vertical and horizontal) and shall form an effective barrier between floors, between a top story and a roof or attic space.

*Required - provided.

SECTION 803 WALL AND CEILING FINISHES803.1.1 General

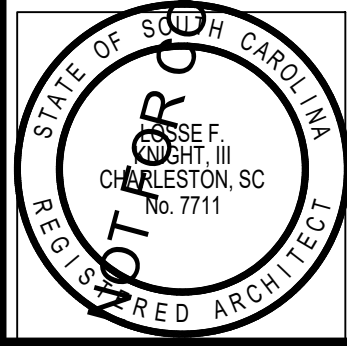
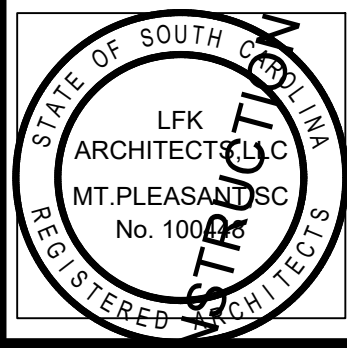
Class A - flame spread 0-25; smoke developed 0-450.
Class B - flame spread 26-75; smoke developed 0-450.
Class C - flame spread 76-200; smoke developed 0-450.

Table 803.11 for Group "B", Non-Sprinklered:
Interior Exit Stairways & Ramps, Exit Passageways (A)
Corridors & Enclosures for Exist Access Stairways (B)
Rooms and enclosed spaces (C)

1 IECC COMPLIANCE REQUIREMENTS
NTS

NOTES:

- THIS PROJECT SHALL UTILIZE THE IECC PRESCRIPTIVE REQUIREMENTS FOR THE ARCHITECTURAL BUILDING ENVELOPE REQUIREMENTS.
- CONTRACTOR TO REFERENCE ALL OTHER APPLICABLE ENERGY REQUIREMENTS BY LOCAL & ADOPTED BUILDING DEPARTMENTS
- CONTRACTOR TO SUBMIT ALL EXTERNAL DOOR & WINDOW SHOP DRAWINGS / CUT SHEETS FOR ARCHITECTURAL REVIEW & APPROVAL.
- TABLE 502.3 & 502.2(1) REPRESENT THE MINIMUM IECC REQUIREMENTS, ADDITIONAL PERFORMANCE MAY BE CONSIDERED



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JOB NUMBER: 24-000	DRAWN: LJR	CHECKED: LFK
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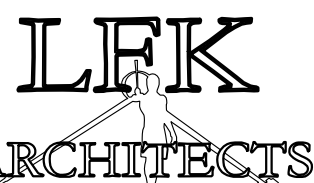
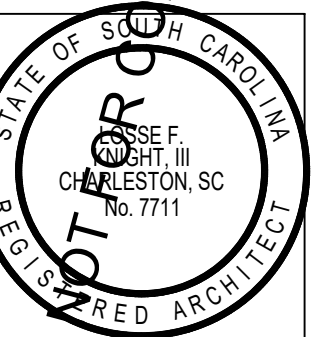
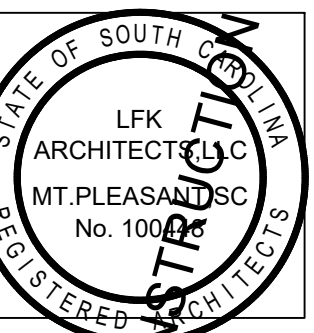
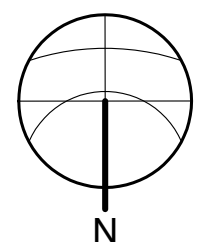
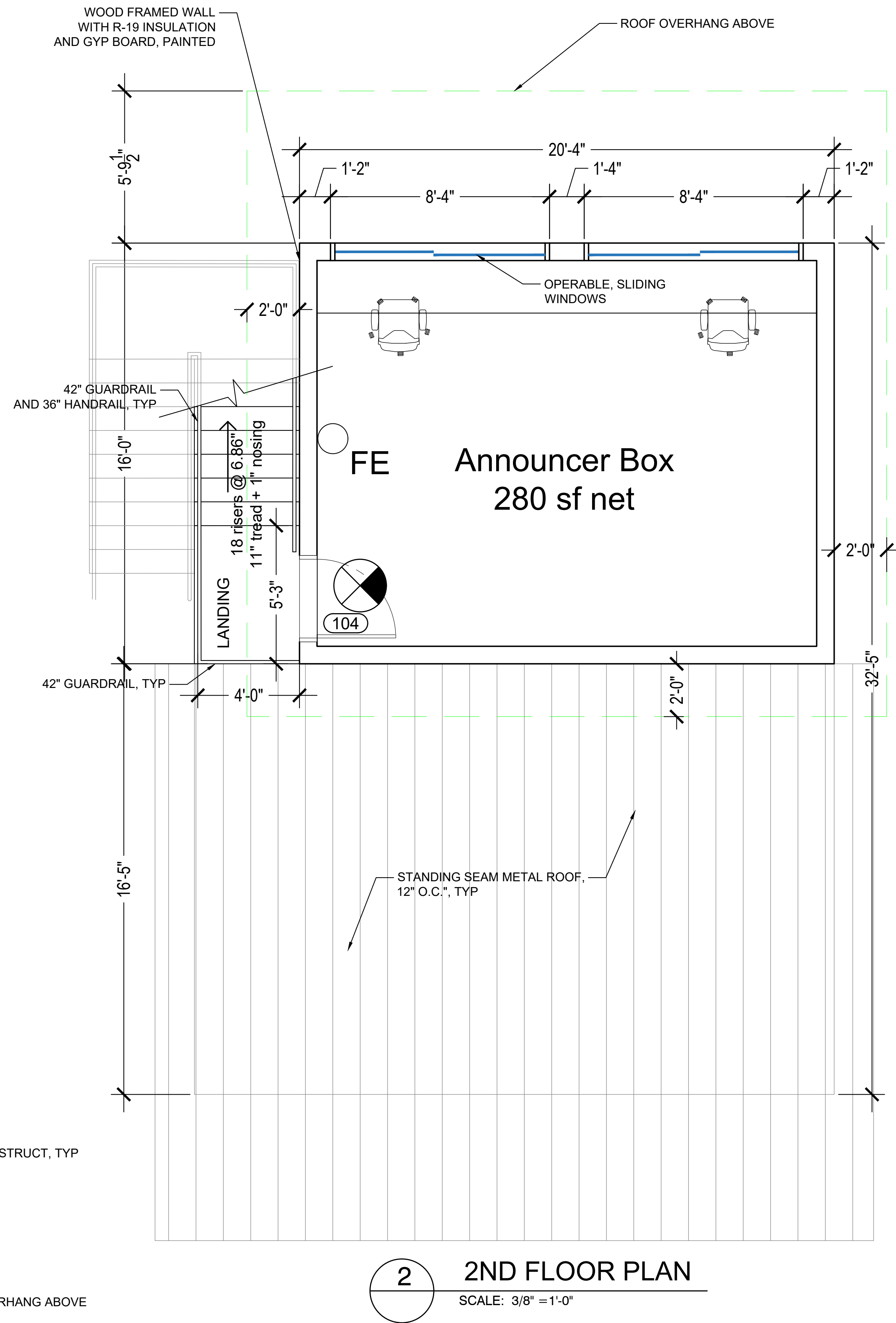
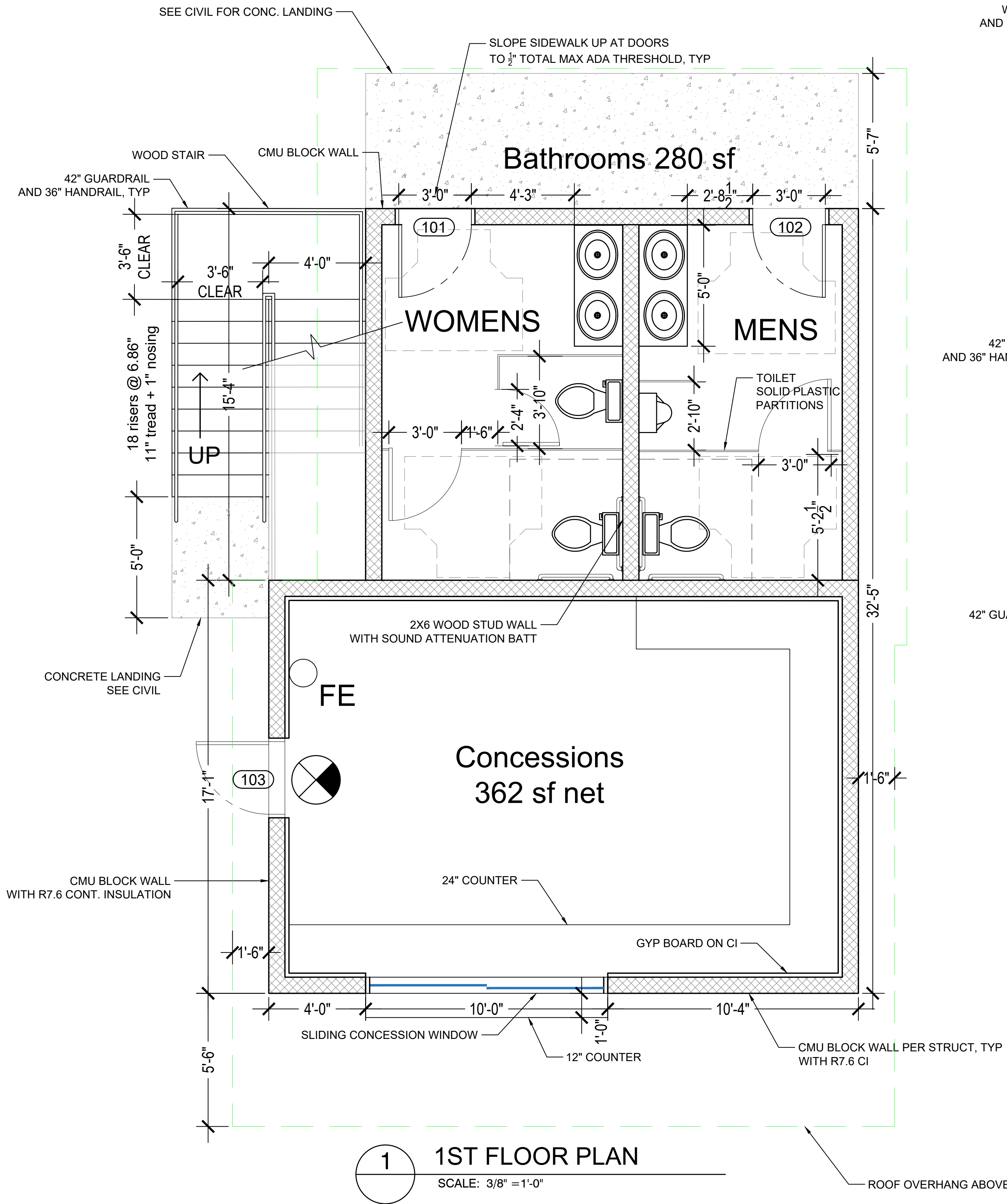
REVISIONS:

SUMMERVILLE SOFTBALL BOX	SUMMERVILLE HIGH SCHOOL	CODE REVIEW
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SHEET NUMBER & TITLE:

A001

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11.04.24



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DRAWN: LJR

CHECKED: LFK

REVISIONS:

SUMMERVILLE SOFTBALL BOX

SUMMERVILLE HIGH SCHOOL

1ST AND 2ND FLOOR PLANS

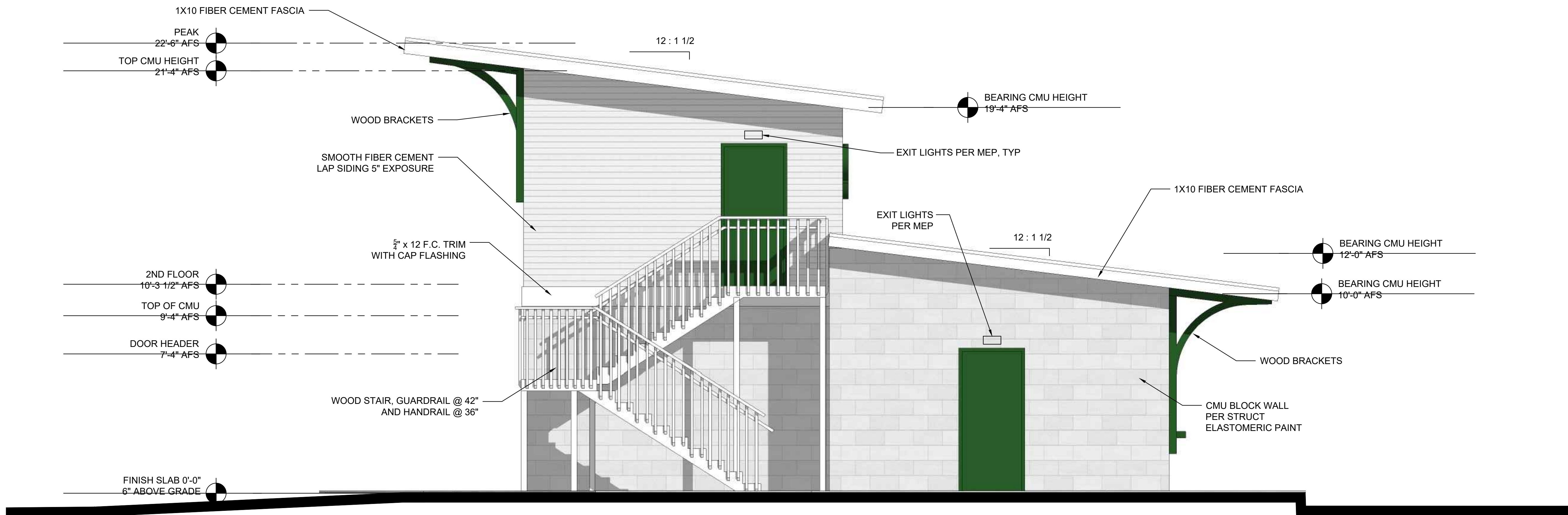
SHEET NUMBER & TITLE:

A101

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



2 EAST ELEVATION
SCALE: 3/8" = 1'-0"

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SUMMERVILLE SOFTBALL BOX
SUMMERVILLE HIGH SCHOOL
EAST AND WEST ELEVATIONS

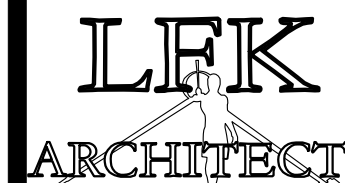
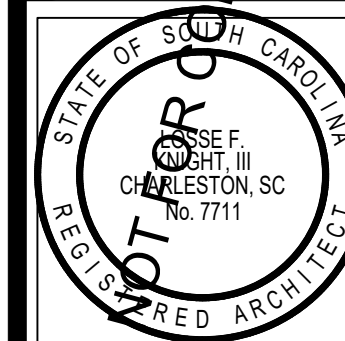
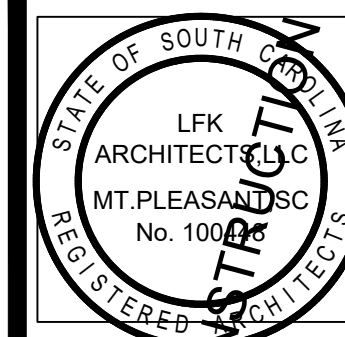
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2 NORTH ELEVATION
SCALE: 3/8" = 1'-0"



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



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SUMMERVILLE SOFTBALL BOX

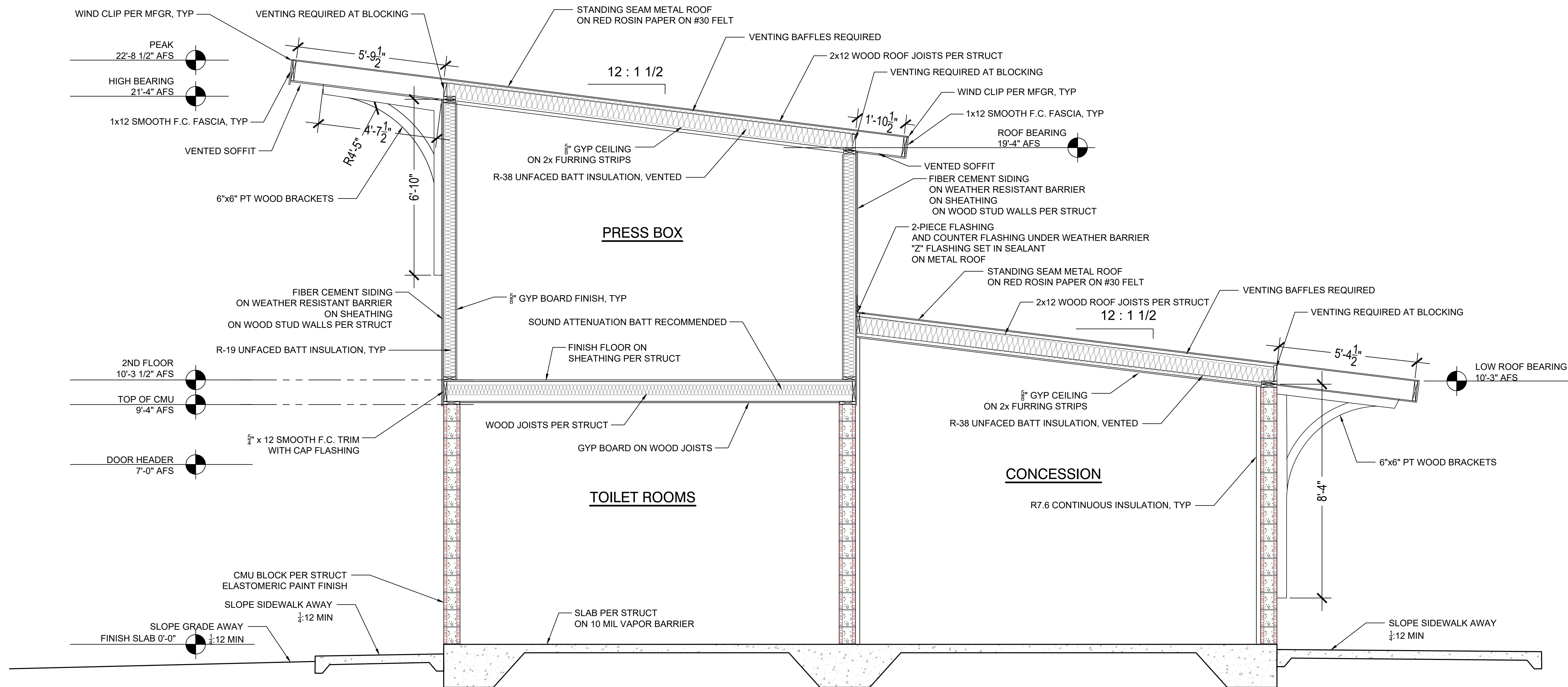
SUMMERVILLE HIGH SCHOOL

NORTH AND SOUTH ELEVATIONS

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A001

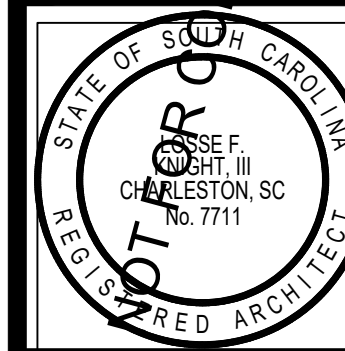
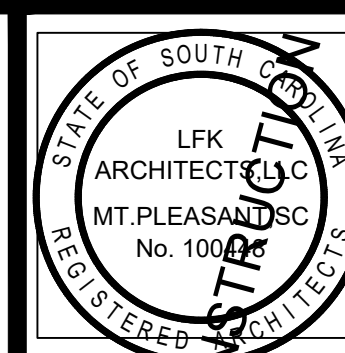
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1

TYPICAL BUILDING SECTION

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

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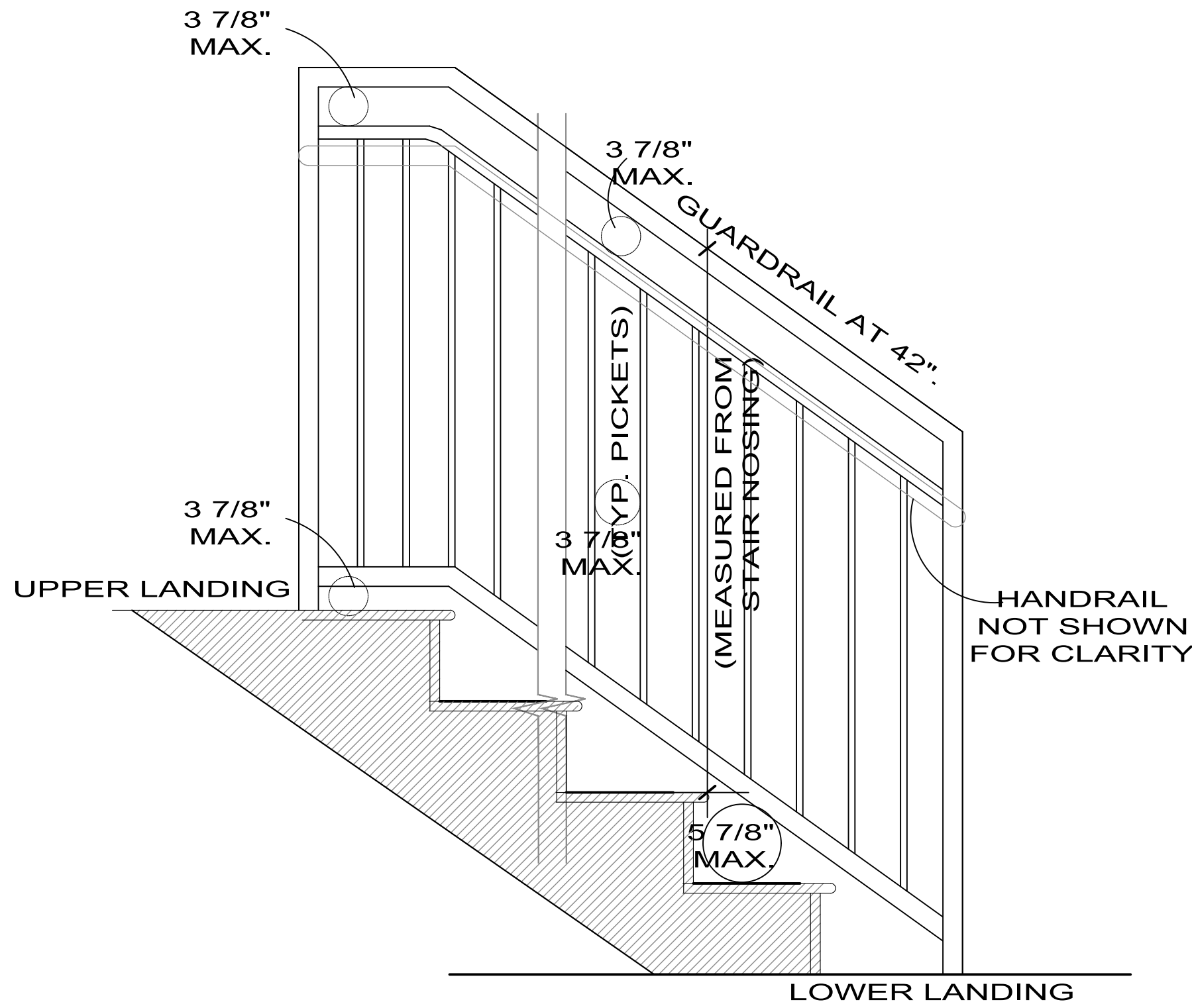
SUMMERVILLE SOFTBALL BOX

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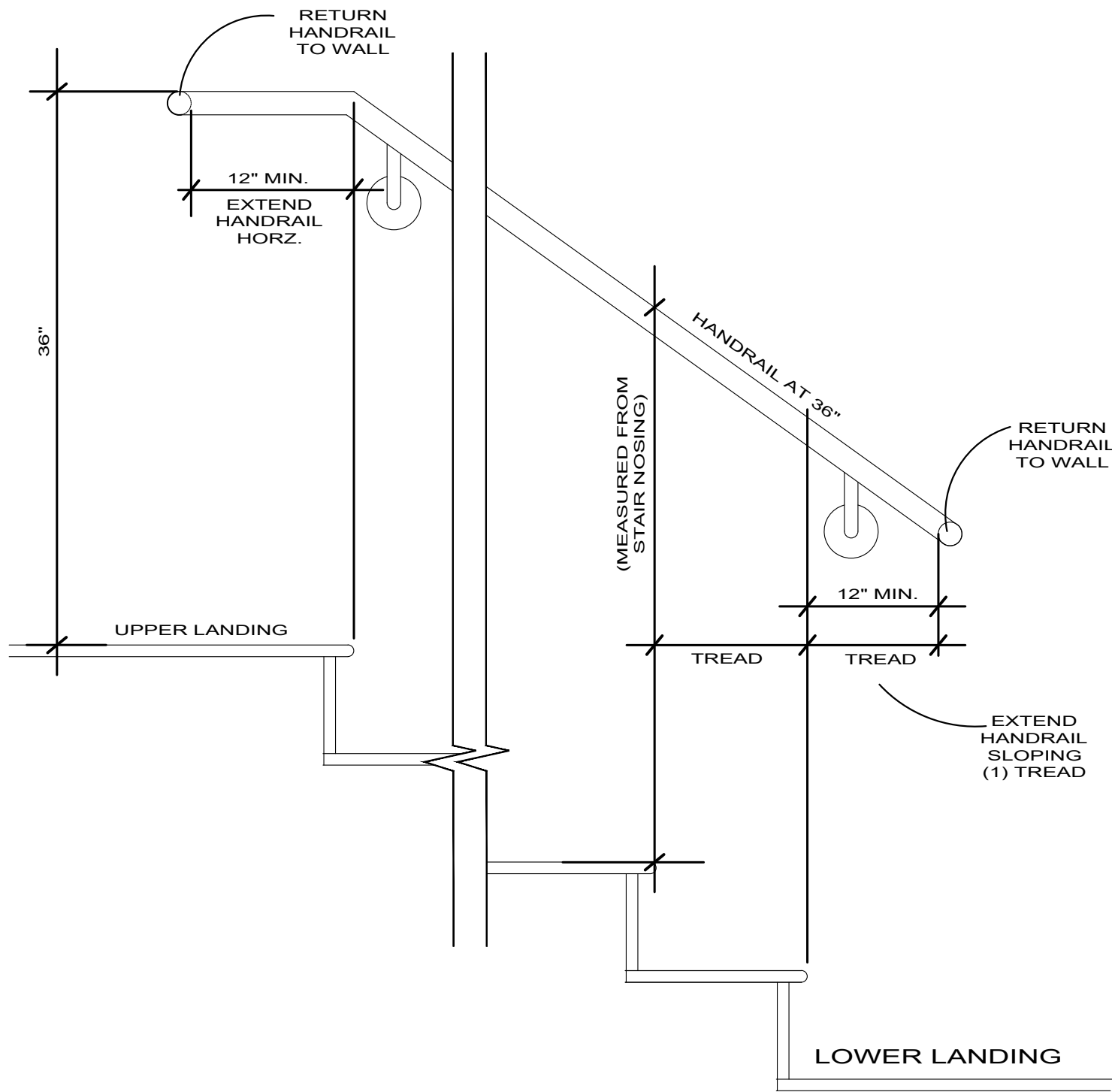
OVERALL BUILDING SECTION

SHEET NUMBER & TITLE:

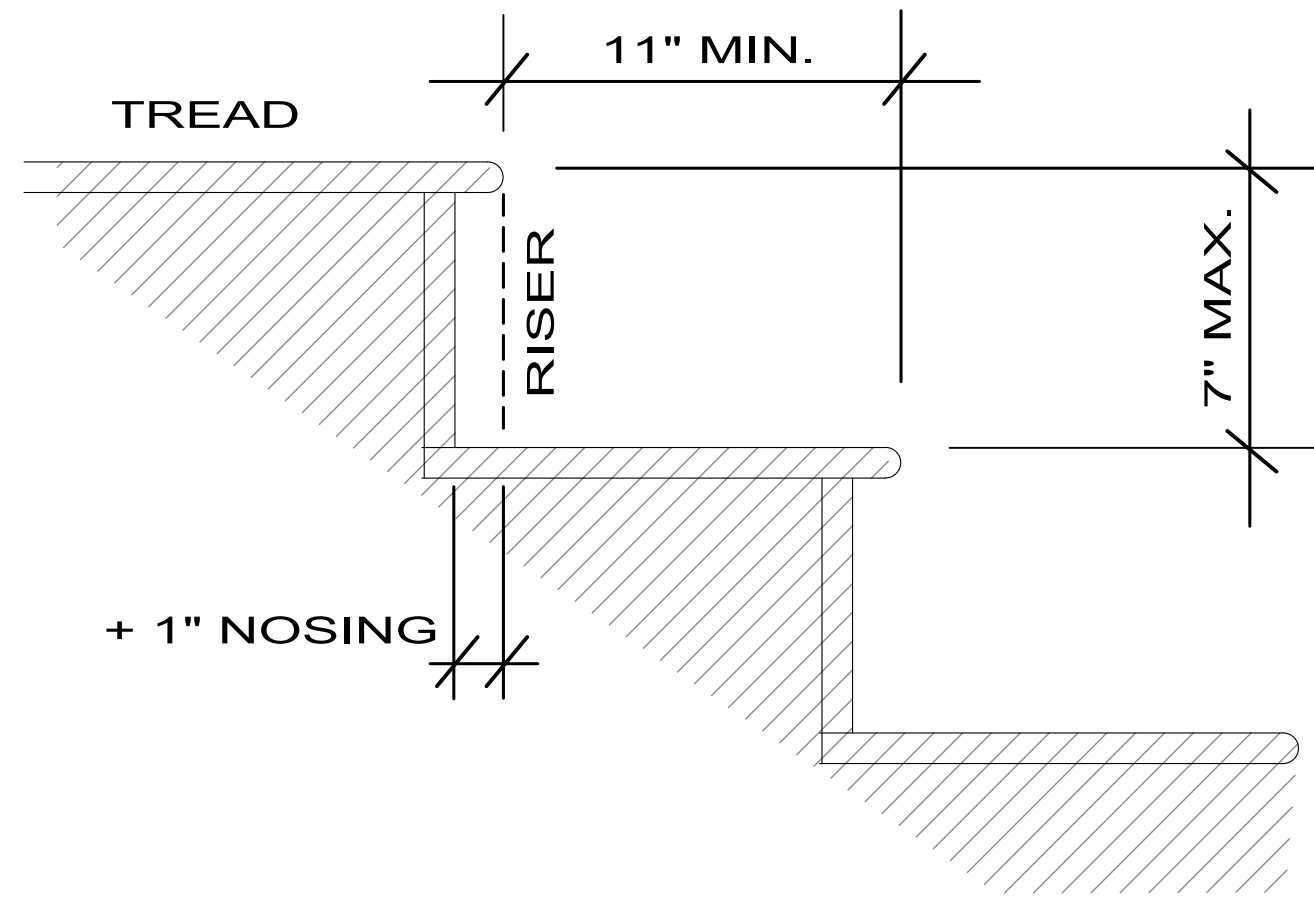
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1 GUARDRAIL REQUIREMENTS

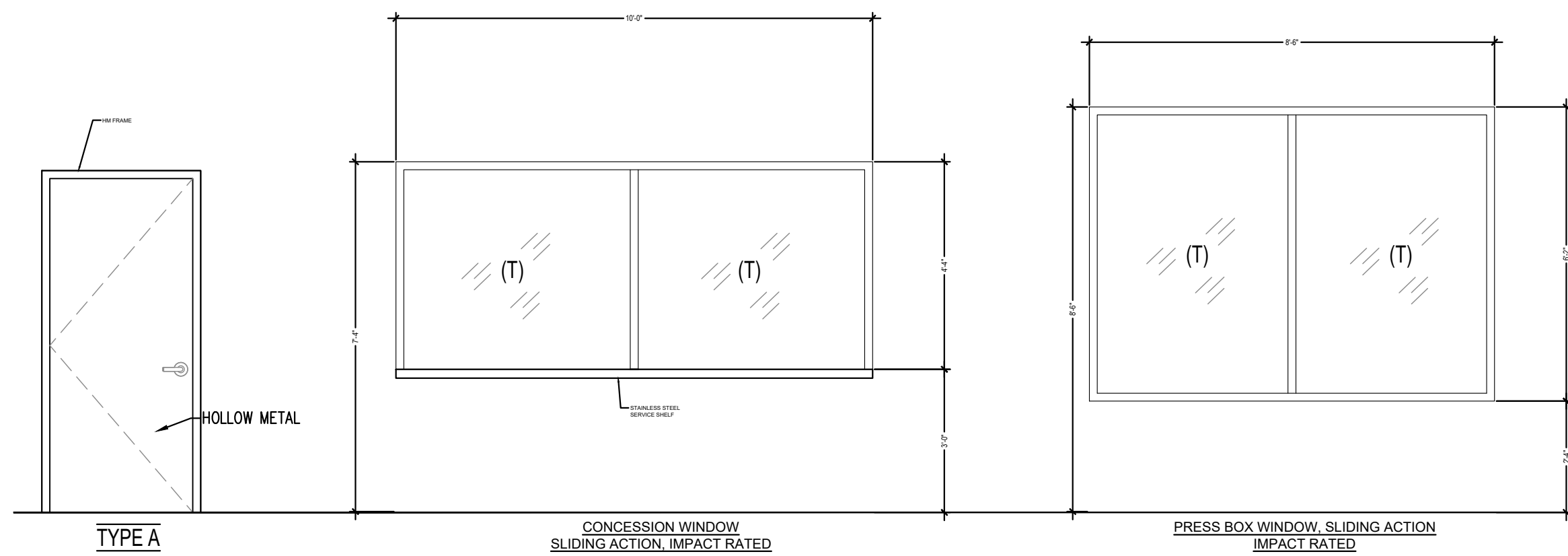


2 HANDRAIL REQUIREMENTS



3 TYP STAIR DETAILS

DOOR SCHEDULE (SEE ELEVATIONS & PLANS FOR ADDITIONAL DETAILS)									
TAG	DOOR							HARDWARE	REMARKS
	QTY	SIZE	THICK.	TYPE	MATERIAL	FRAME	FINISH		
101	1	3-0w x 7-4h		A	STEEL	STEEL	PAINT	H2	EXTERIOR TOILET RM, HM, CLOSER
102	1	3-0w x 7-4h		A	STEEL	STEEL	PAINT	H2	EXTERIOR TOILET RM, HM, CLOSER
103	1	3-0w x 7-4h		A	STEEL	STEEL	PAINT	H1	EXTERIOR CONCESSION ROOM, HM
104	1	3-0w x 7-0h		A	STEEL	STEEL	PAINT	H1	EXTERIOR ANNOUNCER BOX, HM



- GENERAL DOOR & WINDOW NOTES:
- ALL EXTERIOR DOOR GLAZING AND WINDOW GLAZING SHALL BE TEMPERED, DOUBLE PANE INSULATED, THERMALLY BROKEN & LOW E, CLEAR
 - PROVIDE IMPACT RESISTANT PANELS THAT MEET THE REQUIREMENTS OF ASTM E1996 FOR ALL GLAZED EXTERIOR OPENINGS - SEE STRUCTURAL.
 - MIN. U-FACTOR and MIN. SHGC SEE ATTACHED IECC REQUIREMENTS A002 FOR GLASS PERFORMANCE REQ.
U FACTOR STOREFRONT: 0.25
SHGC STOREFRONT: 0.25
 - STOREFRONT FINISH TO BE SUMMERVILLE GREEN
 - DESIGN PRESSURE RATING FOR STOREFRONTS & WINDOWS SHALL BE PER STRUCTURAL
 - ANCHOR STOREFRONT FRAMES, HM FRAMES, AND SERVICE WINDOW AS PER MFR. REQUIREMENTS AND STRUCTURAL
 - SOLID CORE DOORS AT INTERIOR TO HAVE HOLLOW METAL KNOCK DOWN FRAMES, UNIT TO BE PAINTED OR STAINED
 - ALL DOOR GLAZING AND ADJACENT GLAZING SHALL BE TEMPERED.
 - INSTALL HEAD FLASHING AND SILL FLASHING WITH SIDE AND BACK DAMS, TYPICAL. - SEE ENLARGED DETAILS
 - PROVIDE METAL RAIN DRIP FLASHING AT HEAD OF ALL EXTERIOR OPENINGS
 - CONTRACTOR TO PROVIDE DOOR HARDWARE SCHEDULE TO INCLUDE EACH DOOR.
 - PROVIDE LEVER HARDWARE AT ALL INTERIOR DOORS.
 - ALL DOOR HARDWARE TO BE MEDIUM DUTY
 - UNLESS OTHERWISE NOTED ALL HINGES ARE TO BE STANDARD WIDE THROW HINGE SET, MEDIUM DUTY
 - SEE PLAN FOR FINAL DOOR QUANTITIES.
 - SEE PLAN FOR DOOR SWING REQUIREMENTS.
 - CONTRACTOR TO VERIFY FINAL DOOR SPECIFICATIONS WITH OWNER BEFORE ORDERING DOORS.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS & QUANTITIES IN FIELD BEFORE ORDERING.
 - SUBMIT SPECIFICATIONS / SHOP DRAWINGS / TO ARCHITECT OR ENGINEER FOR REVIEW, APPROVAL
 - GC TO PROVIDE SAMPLE OF STOREFRONT SILL EXTENSION FOR REVIEW
 - FINAL FINISH/HARDWARE SELECTION BY OWNER
- DOOR AND HARDWARE NOTES:
- PERIMETER DOORS TO BE KEYED ALIKE. PROVIDE KEYWAY AT EXT. FACE.
 - G.C. TO FURNISH & INSTALL CYLINDER IN ALL INTERIOR H.M. DOORS. ALL INTERIOR DOORS TO BE KEYED ALIKE. PROVIDE KEYWAY AT EXT. FACE.
 - EGRESS DOOR HARDWARE SHALL BE READILY OPERABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT, PER IBC SECTION 1008.1.8.
 - DOOR STOPS AND BUMPERS TO BE INSTALLED BEHIND ALL DOORS.
 - FINAL DOOR, FRAME, FINISH, & HARDWARE SELECTION BY OWNER
- HARDWARE LEGEND
- NOTE: - OWNER TO VERIFY FINAL HARDWARE FUNCTION & SELECTION.
- H-1: SECURE EGRESS: ALWAYS ALLOW EXIT FROM INTERIOR, EXTERIOR KEYED ACCESS.
- H-2: ADA TOILET ROOM: PUSH/PULL, THREE HINGE, CLOSER, MOP PLATE @ RESTROOM SIDE

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SUMMERVILLE SOFTBALL BOX

SUMMERVILLE HIGH SCHOOL

STAIR DETAILS, DOOR & WINDOW SCHEDULES

SHEET NUMBER & TITLE:

A600

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ABBREVIATION LEGEND

T/	— TOP OR TOP OF
FTG	— FOOTING
SF	— STEP FOOTING (LOCATION)
CONC	— CONCRETE
WWM	— WELDED WIRE MESH
CMU	— CONCRETE MASONRY UNIT (CONCRETE BLOCK)
WCJ	— MASONRY / CONCRETE WALL CONTROL JOINT
STL	— STRUCTURAL STEEL OR STEEL
O.C.	— ON CENTER (SPACING)
PSI	— POUNDS PER SQUARE INCH (STRENGTH)
TYP	— TYPICAL
X	— READ AS 'BY'
CLR	— CLEAR
SQ	— SQUARE
DEG	— DEGREE OR DEGREES
E.W.	— EACH WAY
UNO	— UNLESS NOTED OTHERWISE
TD	— TREATED, PRESSURE TREATED PER AWPB SPECS, GROUND CONTACT WITHIN 1000 YRS FOR WATER, MARINE EXPOSURE.
CONT	— CONTINUOUS
W/	— WITH
W/OUT	— WITH OUT
A. BOLTS	— ANCHOR BOLTS OR BOLT
®	— READ AS 'AT'
PL	— PLATE
REINF	— REINFORCING
SHTHG	— SHEATHING, GENERALLY PLYWOOD
DIA	— DIAMETER

GEOTECHNICAL REPORTS: IF A SPECIFIC REPORT IS NOT ADDRESSED HEREIN THE PLANS HAVE BEEN DESIGNED BASED ON ASSUMPTIONS. IT IS THE SOLE RESPONSIBILITY OF THE OWNER TO RETAIN A QUALIFIED GEOTECHNICAL ENGINEER WHO SHALL PERFORM INVESTIGATIONS TO INSURE THAT THE SOIL CONDITIONS ARE AT LEAST THAT WHICH ARE REQUIRED HEREIN.

ANY AND ALL FILL SHALL BE ENGINEERED FILL AND PLACED IN STRICT ADHERENCE WITH THE PROJECT GEOTECHNICAL ENGINEERS REQUIREMENTS. FILL CAN AND WILL INDUCE SETTLEMENTS. PLACING FILL WITHOUT THE DIRECTION OF A GEOTECHNICAL ENGINEER IS PROHIBITED. FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES, LOOSE MEASURE. EACH LIFT SHALL BE COMPACTED TO WITHIN 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY PRIOR TO PROCEEDING WITH THE NEXT LIFT.

ALL SLABS ON GRADE, UNLESS NOTED OR REQUIRED OTHERWISE BY THE PROJECT GEOTECHNICAL ENGINEER, SHALL BE PLACED ON COMPACTED FILL OR SUBGRADE. ALL SLABS SHALL BE PLACED OVER MIN 10 MIL VAPOR BARRIER (VB). VB SHALL BE INSTALLED IN A SMOOTH CONDITION, LAP ENDS NOT LESS THAN 12 INCHES. REPAIR ANY AND ALL PUNCTURES PRIOR TO CONC. PLACEMENT.

THE GENERAL CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED SURVEYOR WHO SHALL VERIFY ALL SITE AND BUILDING ELEVATIONS. THE GENERAL CONTRACTOR SHALL INSURE THAT THE LOWEST HORIZONTAL STRUCTURAL MEMBER IS ABOVE ANY AND ALL FEDERAL, STATE AND LOCAL REQUIREMENTS FOR CLEARANCE AND FLOOD ZONE RELATED ISSUES.

SHOP DRAWINGS ARE REQUIRED FOR THE FOLLOWING TRADES UNLESS SPECIFICALLY NOTED OTHERWISE. REINFORCING STEEL, STRUCTURAL STEEL, ENGINEERED LUMBER AND TRUSSES. ALL SHOP DRAWINGS SHALL BE REVIEWED AND ALL OUTSTANDING ISSUES RELATED TO COORDINATION AND DIMENSIONS RESOLVED PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW. THE GENERAL CONTRACTOR SHALL STAMP ALL SHOP DRAWINGS "APPROVED" PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.

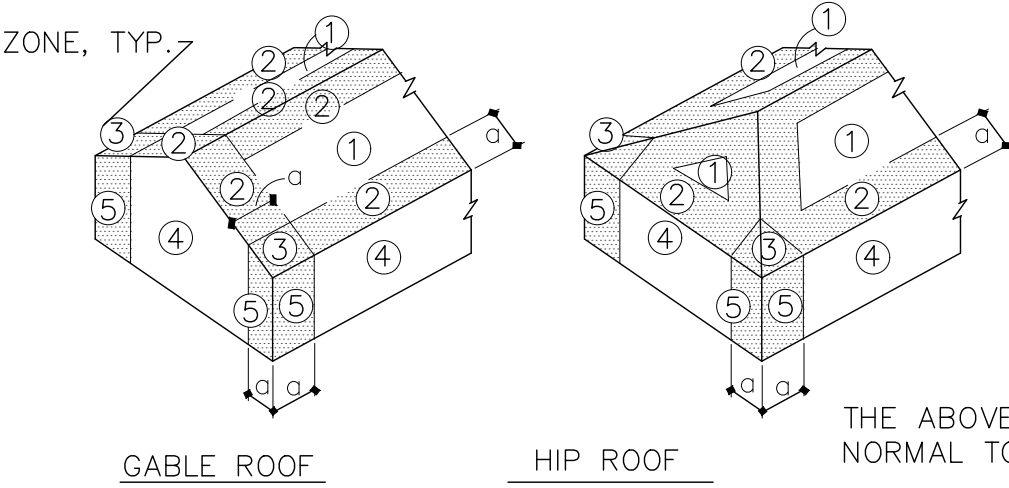
SEE THE ARCHITECTURAL DRAWINGS FOR ANY AND ALL DIMENSIONS AND CONDITIONS NOT NOTED HEREIN. WHERE DIMENSIONAL DIFFERENCES ARE FOUND, THE ARCHITECTURAL DRAWINGS SHALL GOVERN. THE CONTRACTOR SHALL COORDINATE ALL TOP OF BEAM, TOP OF CMU AND TOP OF STEEL ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS.

WATER HEATERS AND MASONRY CHIMNEYS SHALL BE ANCHORED/STRAPPED TO THE MAIN STRUCTURE PER IRC R301.2.2.9 AND R301.2.2.10, RESPECTIVELY

THE GENERAL CONTRACTOR SHALL MAKE NO SUBSTITUTIONS FROM THOSE ITEMS SPECIFIED HEREIN WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE ARCHITECT OR ENGINEER.

WIND LOADING DATA / NOTES

FOR THE BUILDER/OWNERS USE IN SELECTING AND ATTACHING COMPONENT AND CLADDING RELATED ITEMS, THE FOLLOWING WIND LOADING PRESSURES ARE PROVIDED. NOTIFY ENGINEER OF ANY CONDITION OR MATERIAL THAT ARE NOT CLEARLY ADDRESSES HEREIN.



BASIC WIND SPEED – 140 MPH END ZONE WIDTH (a) – 4 FT.	
ZONE 1 –	50 PSF
ZONE 2 –	60 PSF
ZONE 3 –	75 PSF
ZONE 4 –	50 PSF
ZONE 5 –	70 PSF

THE ABOVE LOAD SHOULD BE APPLIED OUTWARD NORMAL TO THE FACE OF BUILDING OR ROOF.

GENERAL NOTES

1. Structural drawings shall be used in conjunction with architectural and mechanical drawings and drawings relating to other trades. Contractor shall be responsible for checking and coordinating dimensions, clearances, etc. with the work of other trades. In case of conflict between drawings, the more stringent requirement shall govern.
2. In case of conflict between drawings, notes and specifications, the specifications shall govern.
3. Work not indicated on a part of the drawings but reasonably implied to be similar to that shown at corresponding places shall be repeated.
4. Review all project documents prior to fabrication and start of construction. Report any discrepancies to the project Architect prior to proceeding with work.
5. It is the contractor's responsibility to protect existing facilities, structures and utility lines from all damage during construction.
6. Coordinate structural and other drawings that are part of the contract documents for anchored, embedded or supported items which may affect the structural drawings.
7. All details and sections on the drawings are intended to be typical and shall be construed to apply to any similar situation elsewhere on the project except where a separate detail is shown.
8. Use of contract drawings reproduced in whole or any part in shop drawing shall not relieve the contractor nor subcontractors from their responsibility to accurately layout, coordinate, detail, fabricate and install a complete structure.
9. Review all shop drawings for conformance with the contract documents and for completeness and answer all contractor related questions. Stamp and initial all sheets as Approved prior to submitting shop drawings to Architect for review.

FOUNDATION NOTES

1. Backfill and fill material shall be placed in thin successive layers, 8" loose measurement, and each layer shall be compacted to at least 95% of maximum laboratory density.
2. Backfill material shall consist of sand clay soil as directed and approved by the project geotechnical engineer.
3. Soil to be stripped, compacted and tested in accordance with the recommendations of the soils engineer.
4. Center all footings under their respective columns or walls unless otherwise shown on plans. Maximum misplacement or eccentricity – 2".
5. Horizontal joints in footings will not be permitted.
6. Where vertical construction joints occur in continuous footings, provide a minimum continuous 2" x 4" keyway across joint for each 12" of depth.
7. Notify Architect if soil conditions are uncovered that prevent the required soil bearing pressure from being obtained.
8. Coordinate plumbing and foundation elevations to minimize interference. Where plumbing interferes with footing, step footing down as directed by engineer.
9. Excavating under or near in-place footings/foundations which disturbs the compacted soil beneath the footings/foundations will not be permitted.
10. Reinforcing shall be supported on precast concrete pads or metal chairs.

CONCRETE NOTES

1. Typical 28 day concrete compressive strength (f'c).
LOCATION: f'c (psi)
Slab On Grade 3000
Footings 3000
NOTE: All concrete shall be normal weight unless noted otherwise.
2. Reinforcing steel: ASTM A 615, grade 60. Minimum lap shall be 40 bar diameters or 24 inches, U.N.O.
3. Welded wire fabric: ASTM A 185 or ASTM A 497. Lap all edges 1'-0" mesh minimum.
4. Concrete cover: Footings 3", slabs 1 1/2" (U.N.O.).
5. All footings shall rest either on undisturbed soil or a manually operated vibratory sled or tamper should be used to densify any soils in the bottom of the footing trenches loosened during the excavation operation.
6. Contractor is responsible for adequately protecting all excavation slopes.
7. No backfilling against foundation walls shall be done until concrete has attained 75% of its 28 day strength. Provide temporary bracing for walls sustaining more than 3'-6" of earth pressure. This bracing to remain until slabs on grade or floor framing supporting the wall have been poured and set.
8. All continuous horizontal reinforcing and vertical wall reinforcing shall be lapped according to lap splice and embedment requirements per ACI 318, latest edition.
9. Reinforcement shall be securely held in place while placing concrete. If required, additional bars and stirrups shall be provided by the contractor to furnish support for bars.
15. For waterproofing details and locations, see architectural drawings.
16. Dowels shall match wall reinforcing.
13. Contractor shall make no deviations from design drawings without written approval of the Project Architect.
19. Structural concrete shall conform to ACI 301 and have the following slumps and aggregate requirements
Location Slump Max. Aggregate
Footings 3" 1" ASTM #57
Slabs 4" 1" ASTM #57
All course granite shall be crushed granite.
20. All reinforcing steel shall be detailed, fabricated and installed in accordance with ACI 318 and ACI detailing manual, ACI-315 latest edition.
21. Not used.
22. Shop drawings for placement shall be submitted for review prior to rebar fabrication unless approved otherwise by project Architect.
23. No reinforcing bars shall be cut to accommodate the installation of anchors, embeds or other items.
24. Use the structural drawings including revisions and addenda in conjunction with reviewed shop drawings for placement of reinforcing.
25. At changes in direction of concrete walls, beams and strip footings, provide corner bars of same size and quantity (U.N.O.) as horizontal steel. Refer to typical detail.
26. Place concrete per ACI 304. Use internal mechanical vibration for all concrete. Limit maximum free fall drop of concrete to 6'-0" for #57 aggregate and 8'-0" for #8 aggregate. All precautions should be taken to avoid segregation of concrete during placement.
27. Saw cut all slabs not less than 1/4 slab depth. Cut shall be made as soon as possible without dislodging the course aggregate, same day as placement. ACI 302

MASONRY NOTES

1. Masonry construction shall conform to ACI "Building Code Requirements for Masonry Structures" (ACI/ASCE 530) and "Specifications for Masonry Structures" (ACI/ASCE 530.1), except as amended below.
2. Obtain copy of masonry code and specifications for reference at the job site.
4. Use type "S" mortar with minimum compressive strength of 1800 psi.
5. Masonry units shall conform to ASTM C90 with a minimum compressive strength of 1900 psi on net section, to provide net area compressive strength of masonry (F'm) of 1500 psi.
6. Provide filled cells as shown on plans. In addition, provide filled cells adjacent to all openings, at anchorage of connections.
7. Provide full mortar bedding around all filled cells with vertical reinforcing.
8. Reinforcing for filled cells shall conform to ASTM A615, Grade 60. Provide the following lap splices for reinforcing: #4 Bars 24" #5 Bars 30"
9. Reinforce wall with ladder type reinforcement in bed joints at 16" o.c. measured vertically. Lap splice all horizontal wall reinforcing 6". Provide prefabricated "tee" or corner sections at all intersecting walls.
10. Refer to typical wall sections for maximum construction height of masonry walls. Provide clean-out holes at base of filled cell when the concrete pour exceeds 5 feet in height.
11. Concrete for filled cells shall be vibrated during placement using a "pencil" type vibrator.
12. The masonry walls are not designed to withstand temporary construction loads. It is the contractor's responsibility at all times to maintain wall stability during the construction phase of this project.
14. The use of solid load bearing masonry units is prohibited on this project.
15. Masonry wall construction requires expansion/contraction joints. Locate these joints as directed by the project Architect not more than 40 feet on center. Avoid locations near windows and doors or other geometry that would lend to the formation of expansion cracks.
16. All lintels over masonry openings shall be Cast-Crete Lintels. Cast-Crete lintels are available from General Materials, Inc.
17. Provide seismically rated brick ties for all brick veneer in accordance with man'f install instructions.

STRUCTURAL STEEL NOTES

1. Structural Steel materials shall conform to the following ASTM specification (U.N.O.):
Angles, plates, misc. steel ASTM A36, Fy=36 ksi
Tubes ASTM A500, Grade B
Anchor Bolts ASTM A449
2. Provide temporary bracing or guys to provide lateral support until permanent lateral bracing is installed.
3. The contractor shall coordinate the bottom of base plate elevation with the top of concrete and masonry elevation. In case of conflict, the contractor shall make allowance in his bid for the more stringent requirement.
4. All steel details and connections shall be in accordance with the requirement of the AISC SPECIFICATIONS (Latest Edition), including all supplements and revisions.
5. Shop connections not specifically detailed on the drawings may be welded or bolted. Field connections not specifically detailed on the drawing shall be bolted.
6. Fabrication and erection of structural steel shall conform to the AISC "Manual of Steel Construction," and the AISC "Specification for Structural Steel Buildings," latest Editions.
7. All bolts cast in concrete shall conform to ASTM A-36 or A-307.
8. Beams shall be supported on columns by tab plates welded through the center line of the column unless specifically shown otherwise herein.
9. All beams shall be punched for two rows of bolts for the attachment of wood blocking. Blocking shall be placed along the top flange, along the web and along the bottom flange unless specified otherwise. Bolts shall be two rows at 16" o.c. staggered.

TIMBER FRAMING NOTES

1. All timber construction shall be in accordance with AITC specifications and requirements.
2. All timber framing, unless noted otherwise, shall be not less than #2 SYP or SPF kiln dried with minimum properties of: (fb=1300 psi, Ft=675 psi, Fc=1200 psi).
3. All engineered timber shall have minimum properties of: (Fb=2800 psi, Ft=2600 psi, Fc=2400 psi).
4. Any and all timbers exposed to the earth, weather or in contact with concrete or masonry components or withing eight (8) inches of exposed grade shall be treated in accordance with AWPB standards.
5. All connectors shall be by the simpson company unless approved otherwise by the project Architect, G90 finishes.
6. All floor/roof bracing, blocking and connections shall be by the truss or Engineered component manufacturer.
7. All multiple ply girders shall be glued and nailed together with three rows of 16d nails at 8" o.c. per row and per layer or ply.
8. Provide a double joist below all parallel walls not shown otherwise. Provide a double joist adjacent to all changes in span to minimize differential settlement.
9. Layout all plumbing line and fixture locations and space joists to avoid cutting of joists. Where a joist must be cut provide an additional joist on each side of the cut joist, as close as possible. If cut joists supports more than standard floor loadings notify engineer for review.
10. Support all joists and beams on joist and beam hangers. Nailers shall not be permitted without prior authorization from engineer.
11. Provide simpson CS16 X 24" straps across all ridges at 32" o.c. Install to prevent against uplift forces (i.e. across tops of ridges), or collar ties at the same spacing.
12. Solid blocking that matches the depth of the floor joists, shall be installed between joists along all interior and exterior walls. Additional blocking shall be installed between joists at 1/3 points for 2x joist framing.
14. All walls supporting two floors and a roof shall be 2x6's at 16" o.c., 2x4's at 8" o.c. or 3x4's at 12" o.c.
15. The GC shall anticipate and provide furring strips or blocking as may be required to provide a smooth surface for the application of sheetrock. This requirement primarily occurs at, but is not limited to, vaulted ceilings and other such special conditions.
16. The framing and foundations shown herein are based on normal carpet and vinyl floor finishes, normal weight cabinets and counter tops. If heavier materials are used notify engineer and await framing modifications prior to proceeding.
17. Where roof trusses are used, provide uplift connectors with uplift ratings in excess of the uplift reactions listed within the roof truss shop drawings. Contact engineer for specific directions if required.
18. Top plates, drag struts, shall be nailed together with two rows of 16d nails at 12" o.c. staggered.
19. Bottom plate splices shall have attachments on either side. Where the plate is attached to concrete you can provide 1/2" dia exp'n bolt with 12" ea. side of ea. splice, or you may provide two powder driven fasteners within 8" ea. side of ea. splice. Plates attached to timber framing shall have two 16d nails driven into the supporting framing within 6" ea. side of ea. splice.
20. Provide min 3" x 3" x 1/4" square plate washers between TD bottom wall plates and the nut for anchor bolts.
21. Steel beams and columns shall not bear on timber framing. Provide embedded weld plates and steel columns bearing directly on concrete or masonry as necessary for proper support.
22. All timber framing, unless addressed otherwise herein, shall be installed in accordance with the current edition of the Wood Framed Construction Manual.

DESIGN CRITERIA

DESIGN BASED ON THE 2021 IBC (WIND/SEISMIC: ASCE-7/16)

DEAD LOADINGS ACTUAL SELF WEIGHT	
DESIGN LOADS & INFORMATION	
BASIC WIND SPEED	140 MPH
WIND EXPOSURE CAT.	EXPOSURE C
SEISMIC DESIGN INFORMATION	ASCE-7
RISK CATEGORY	II
Sds	1.48
Sd1	.64
SITE CLASS	D
SEISMIC DESIGN CATEGORY	(IRC: D.2) (ASCE-7: E)
SEISMIC FORCE RESIST. SYSTEM	LT. FRAMEWALL/SHEAR PANELS
DESIGN BASE SHEAR	12,000 LBS
ANALYSIS PROCEDURE	SIMPLE STATIC
FLOOR LL	100 PSF
FLOOR DL	25 PSF
ROOF LL	20 PSF
ROOF DL	20 PSF
STAIRS LL	100 PSF
GROUND SNOW LOAD	5 PSF

WHERE REQUIRED, WINDOWS AND DOORS SHALL HAVE A MINIMUM RATING AS NOTED. HOWEVER, THE GEOGRAPHICAL LOCATION OF A GIVEN BUILDING MAY REQUIRE THAT A HIGHER DP RATING BE USED. THE CONTRACTOR SHALL VERIFY WITH THE LOCAL BUILDING OFFICIAL THE REQUIRED DP RATING FOR THE SPECIFIC SITE OF THIS STRUCTURE.

(ASD PRESSURES SHOWN)		140 MPH EXPOSURE C
GLAZING SIZE AREA (SQ FT)	WITHIN 48" CORNERS	INTERIOR ZONES
0 TO 10	+40/-47	+40/-40
11 TO 20	+40/-47	+40/-40
21 TO 50	+40/-40	+40/-40
51 TO 100	+40/-40	+40/-40

WHERE WIND BORN DEBRI PROTECTION IS REQUIRED, PROVIDE REMOVABLE IMPACT PANELS. THESE PANELS MAY BE COMMERCIALLY MANUFACTURED PANELS INTENDED FOR THIS SPECIFIC PURPOSE

SPECIAL INSPECTIONS

1. SUBMIT CONCRETE MIX DESIGN TO ENGINEER FOR REVIEW PRIOR TO THE START OF WORK.
2. COLLECT 5 CONCRETE TEST CYLINDERS FOR EACH 100 CYDS OF CONCRETE PLACED.
3. VISUALLY INSPECT AND CONFIRM FOUNDATION REINFORCING SIZE AND PLACEMENT.
4. INDEPENDANT TESTING AGENCY TO VISUALLY VERIFY WALL SHEATHING AND ROOF SHEATHING ATTACHMENT. CONFIRM NAIL SIZE AND NAIL SPACING.
5. INDEPENDANT TEXTING AGENCY TO VISUALLY VERIFY UPLIFT HARDWARE PLACEMENT LOCATION AND SIZE.

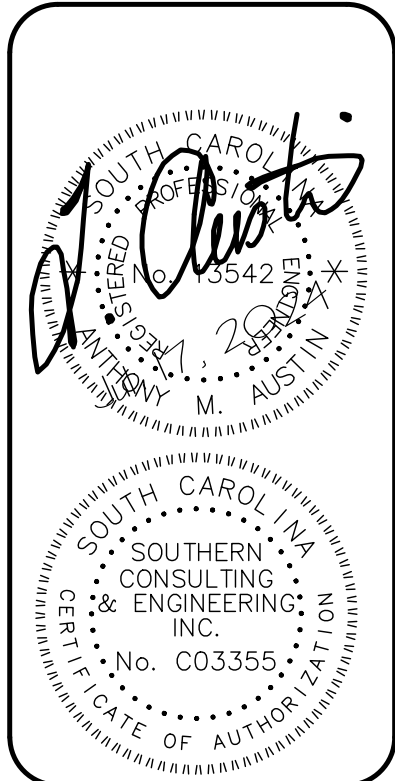
REV.	BY	DATE

THE USE OF THESE DRAWINGS IS NOT WITHOUT LIMITATION. THESE DRAWINGS ARE PROVIDED IN ACCORDANCE WITH OUR STANDARD "TERMS OF USE." A COPY OF THESE "TERMS OF USE" IS AVAILABLE ON OUR WEBSITE AT WWW.SCE-ENG.COM. USE OF THESE DRAWINGS SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS BY THE CLIENT, PROJECT ARCHITECT, PROJECT OWNER, CONTRACTOR OR ANY OTHER PARTY WHO MAY HAVE AN INTEREST IN OR THE NEED TO USE THESE DRAWINGS.

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Structural Engineering
2135 NAD Road Unit A
North Charleston, SC

Bus(843) 718-2525
Fax (843) 718-2776

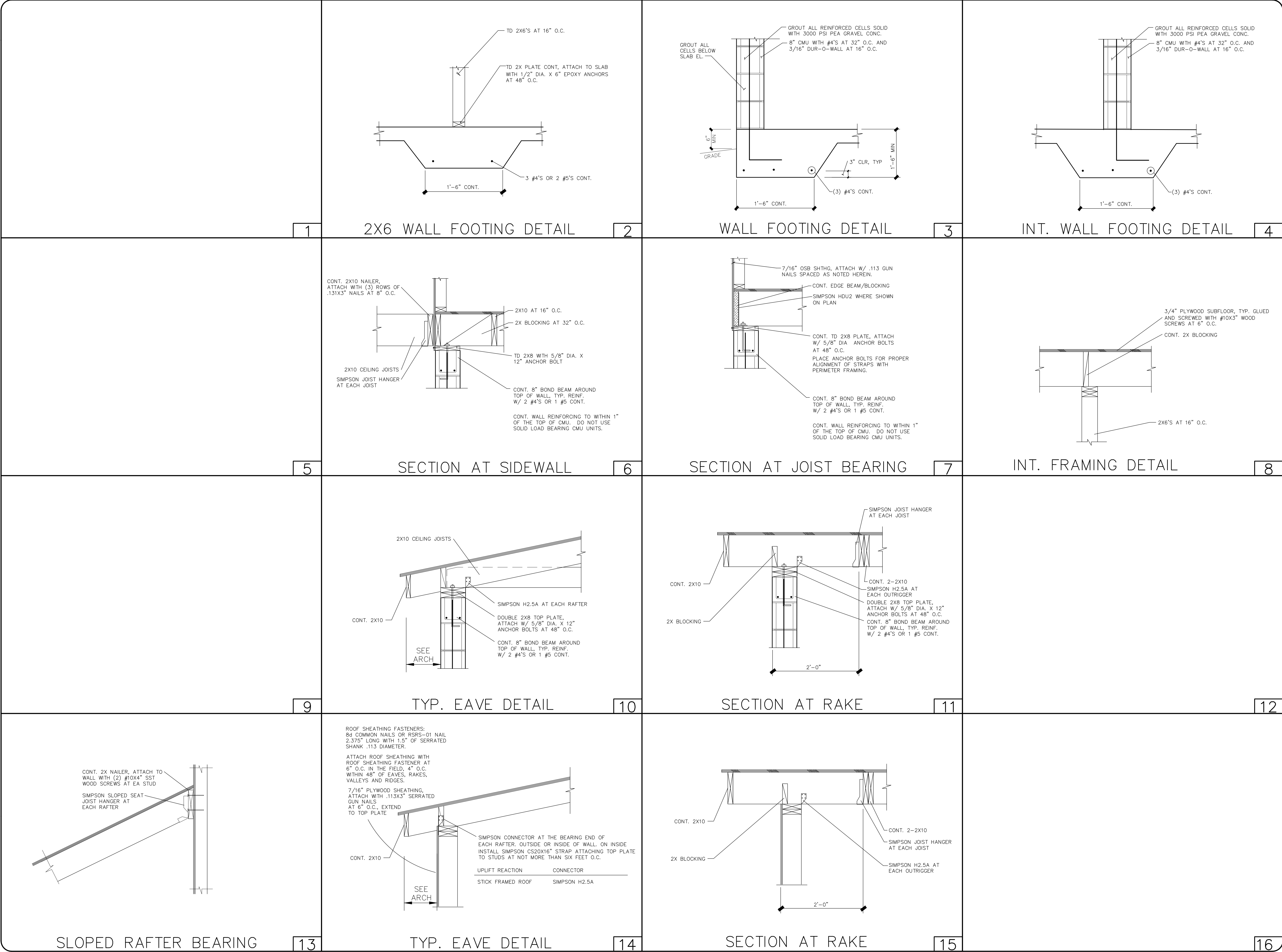
www.SCEstructure.com



Summerville Softball Press Box
500 Greenwave Blvd.
Summerville, SC

DATE
Jul. 17, 2024
SCALE
SEE PLAN
JOB NO.
23378-0
SHEET

S100

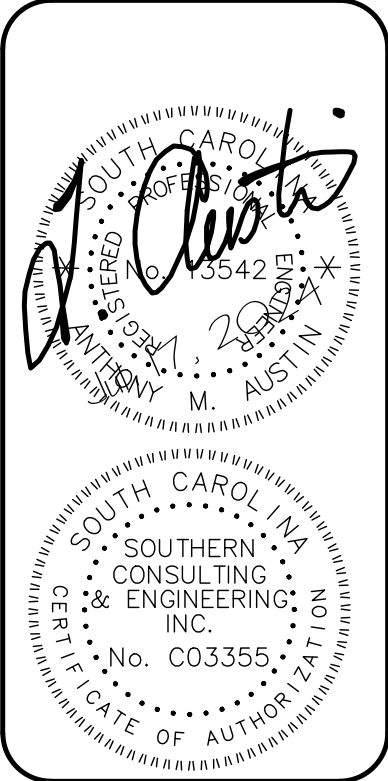


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Summerville Softball Press Box
500 Greenwave Blvd.
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DATE
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SCALE
SEE PLAN
JOB NO.
23378-0
SHEET

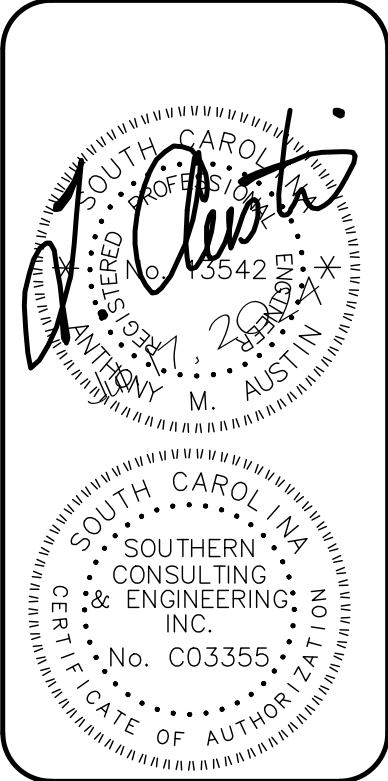
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REV.	BY	DATE

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**Southern Consulting
& Engineering, Inc.**
Structural Engineering
2135 NAD Road Unit A
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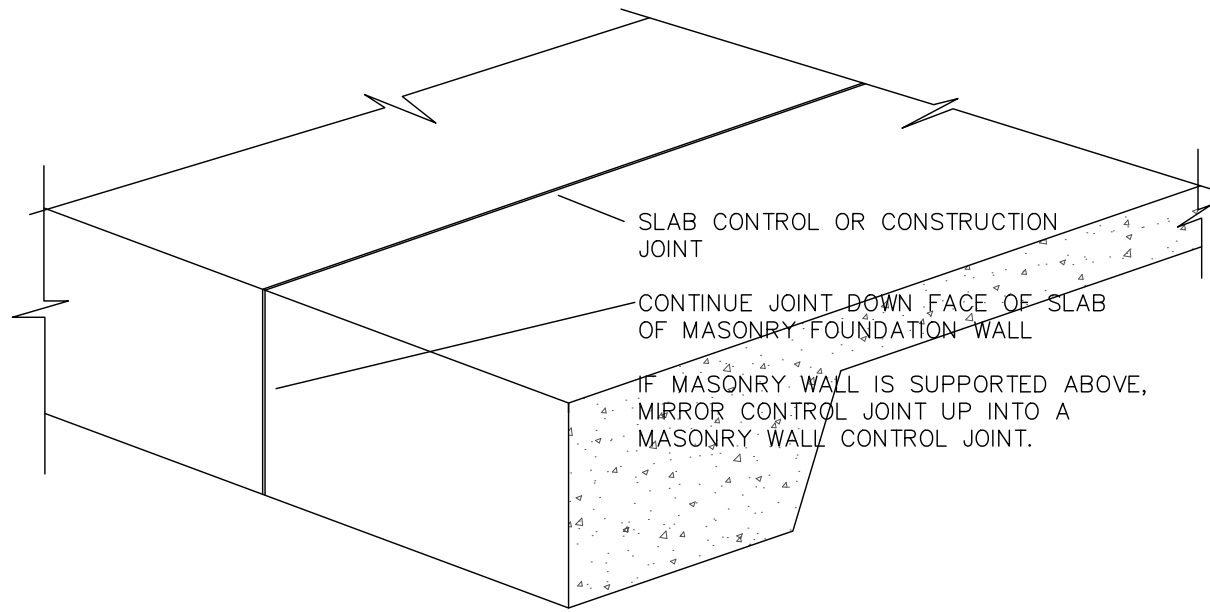
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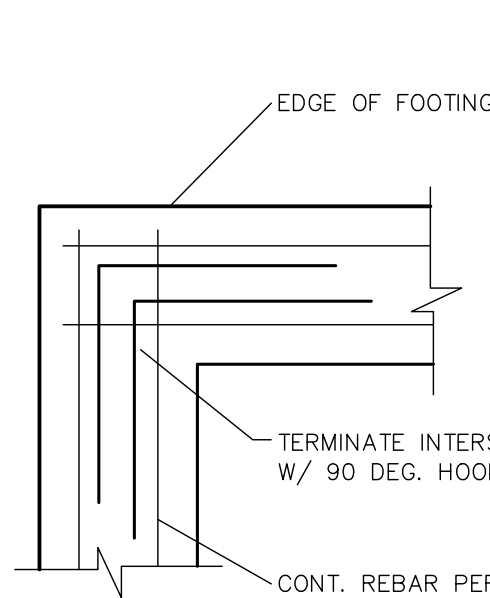
Summerville Softball Press Box
500 Greenwave Blvd.
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DATE
Jul. 17, 2024
SCALE
SEE PLAN
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23378-0
SHEET

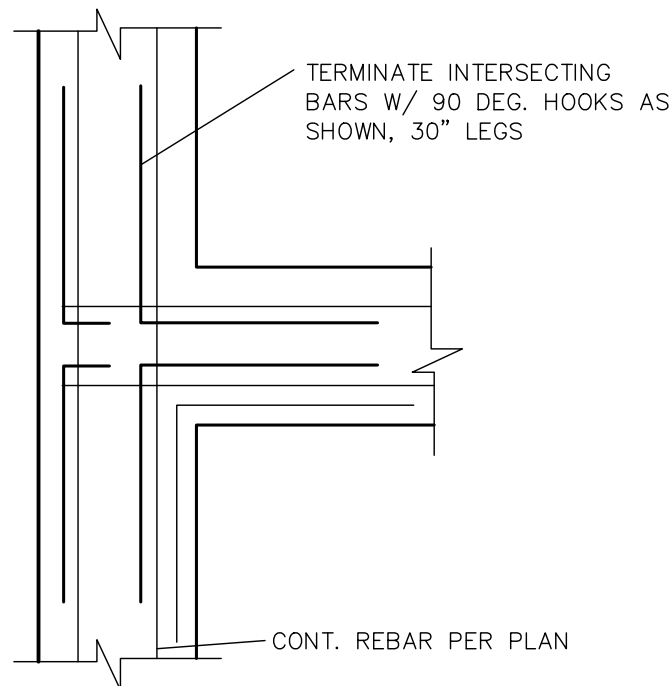
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CONTROL JOINT TERMINATION

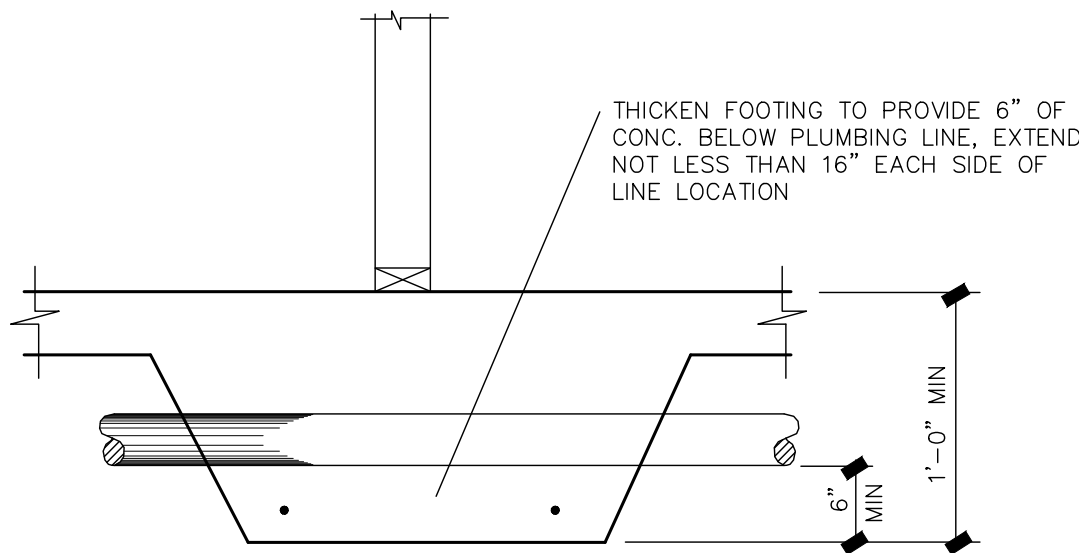


CORNER

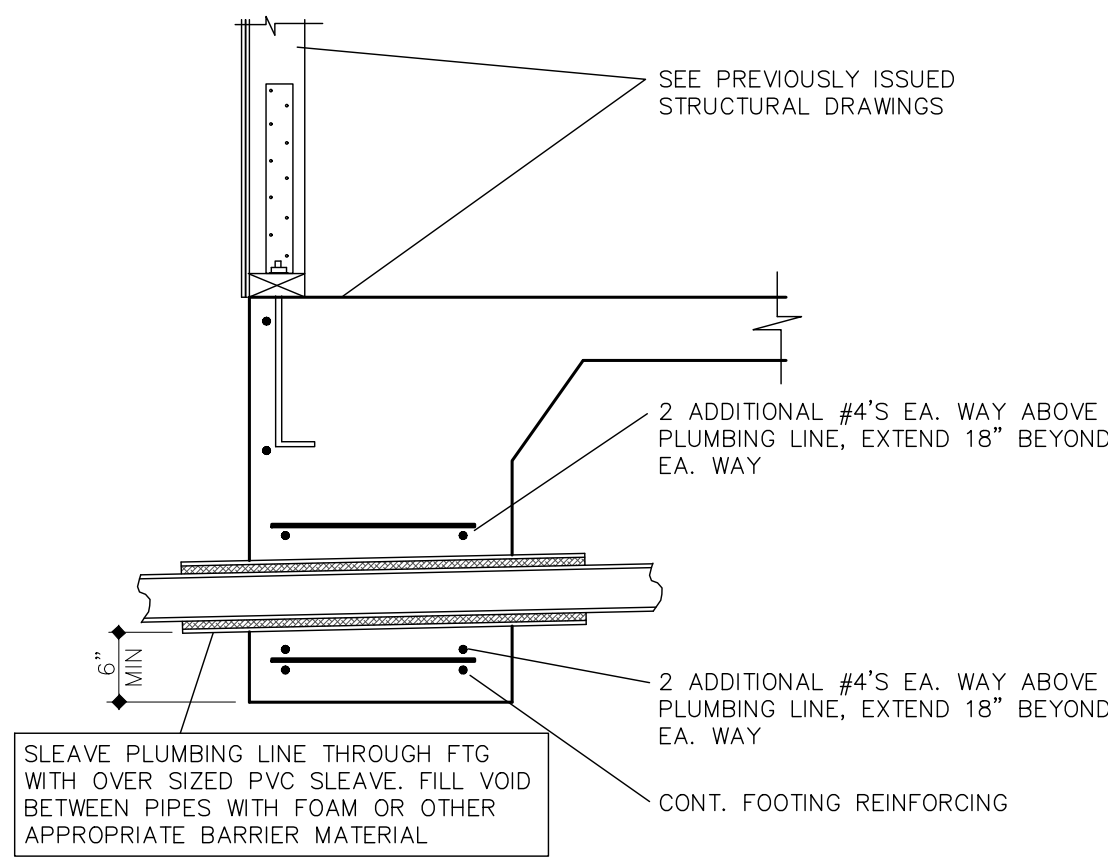


SIDE INTERSECTION

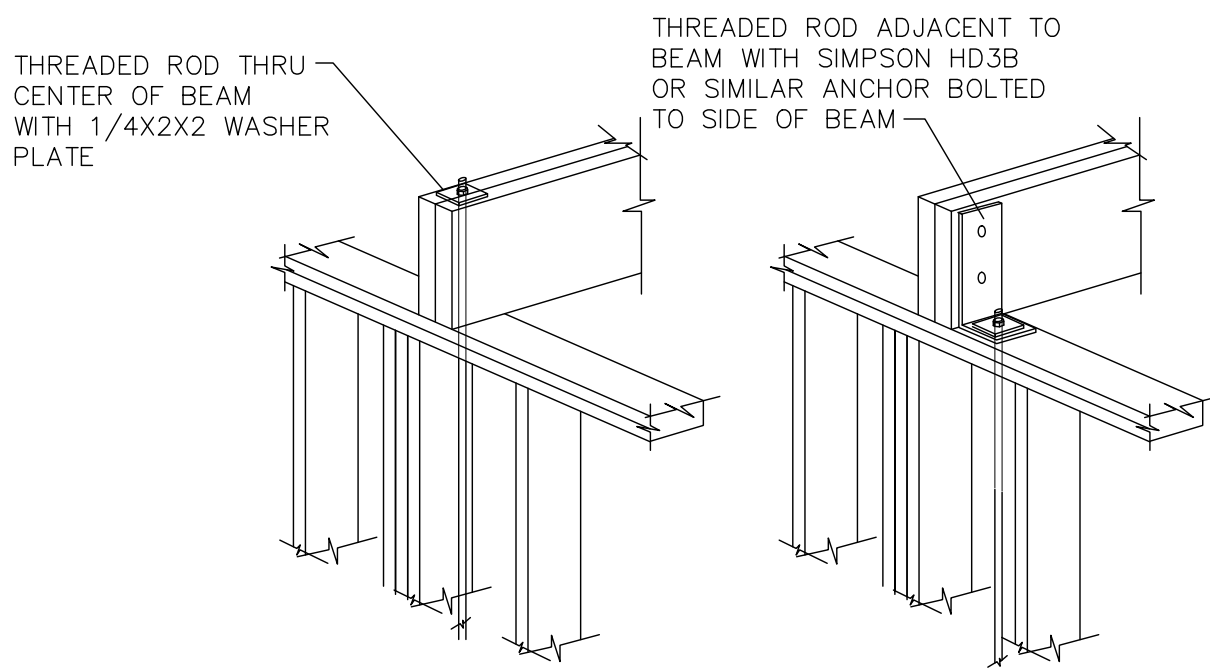
FOOTING INTERSECTION DETAILS



PLUMBING THROUGH INTERIOR FOOTING



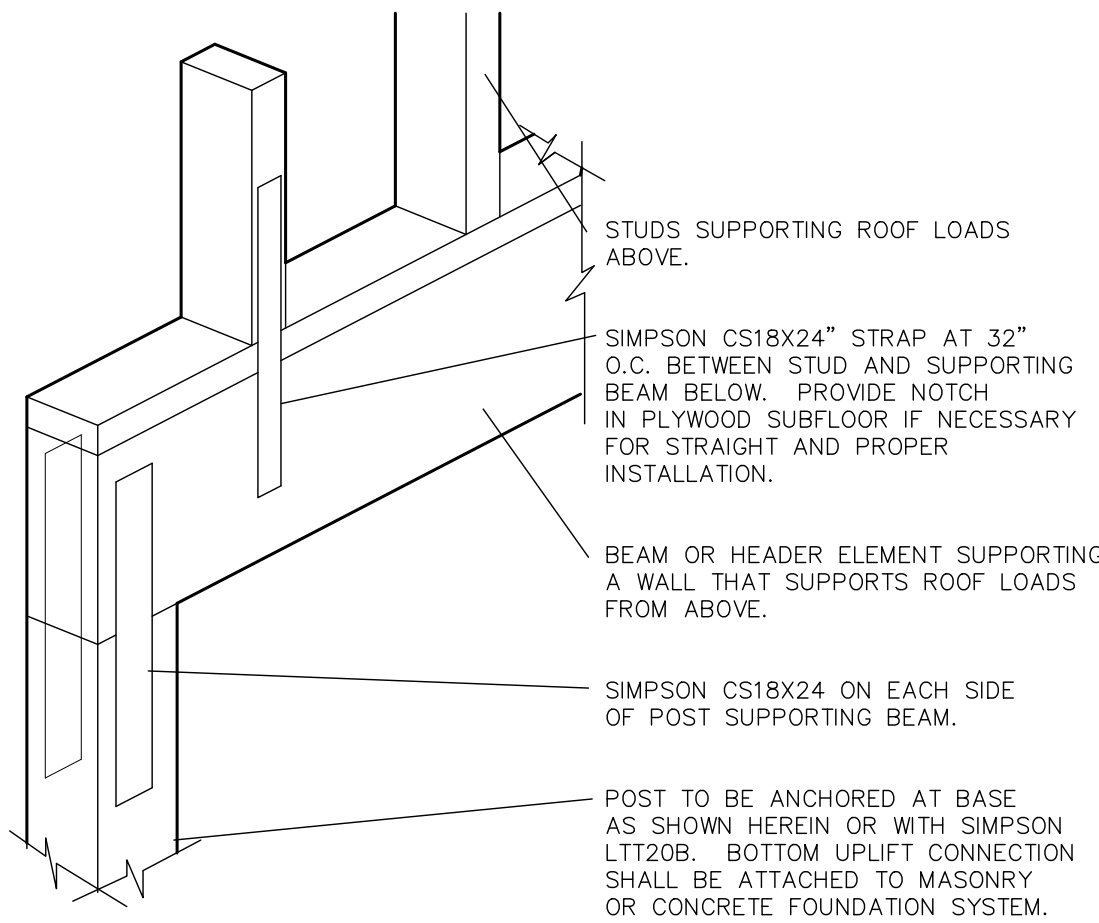
PLUMBING DRAIN LINE
THROUGH FOOTING DETAIL



BEAM / TRUSS HOLD DOWN

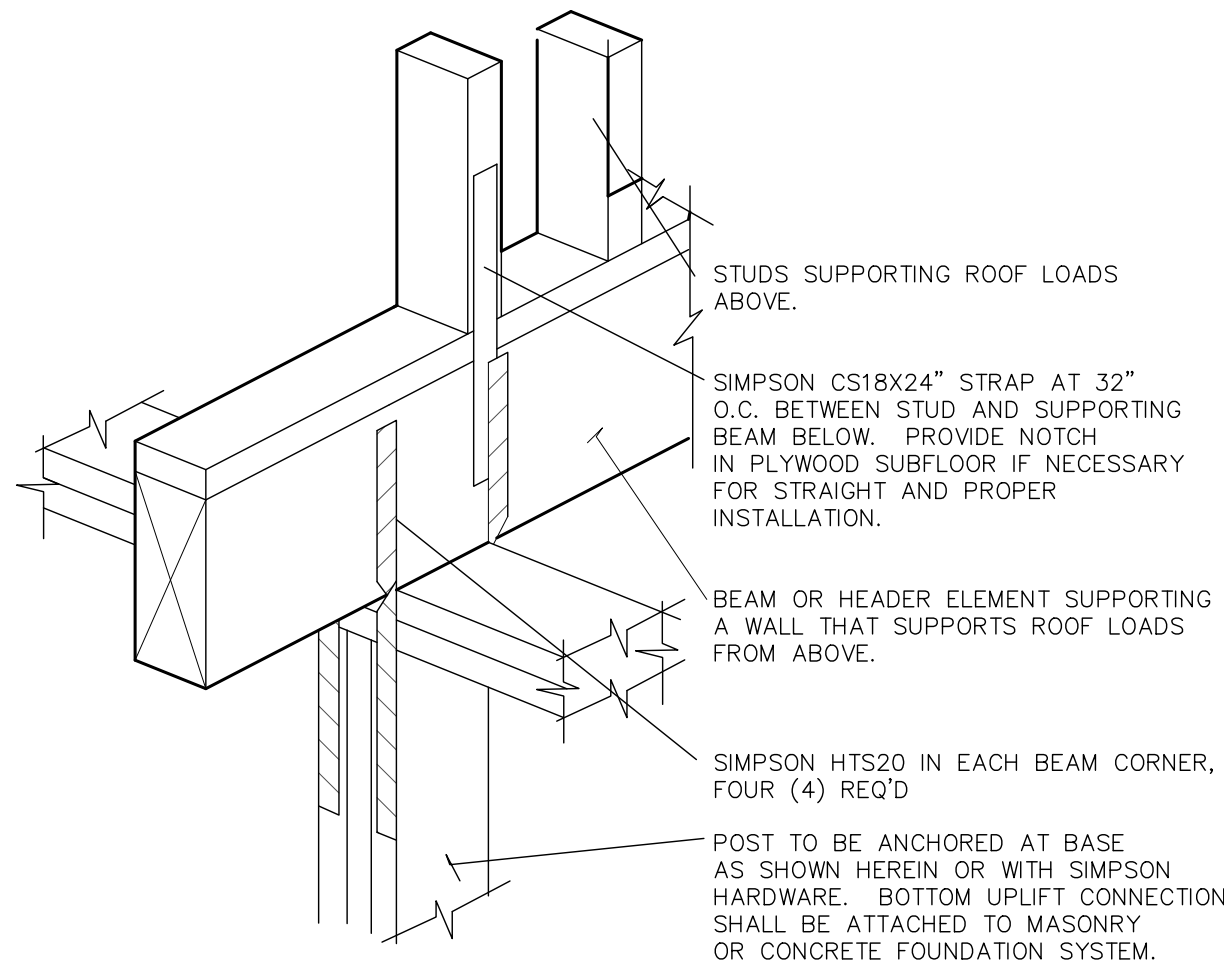
SCALE: NTS

WHERE A BEAM OR GIRDER TRUSS SUPPORT ROOF FRAMING AND UPLIFT LOADS FROM ABOVE, EACH END OF THE BEAM SHALL BE ANCHORED BY ONE OF THE APPROACHES SHOWN HEREIN ABOVE.



STRAP LENGTHS AND BASE CONNECTORS TO BE ADJUSTED FOR ACTUAL UPLIFT REACTIONS OF SPECIFIC CONDITIONS. NOTIFY ENGINEER FOR SPECIFICS.

BEAM STRAPPING DETAIL



STRAP LENGTHS AND BASE CONNECTORS TO BE ADJUSTED FOR ACTUAL UPLIFT REACTIONS OF SPECIFIC CONDITIONS. NOTIFY ENGINEER FOR SPECIFICS.

BEAM STRAPPING DETAIL

ELECTRICAL NOTES:

1.

WORK SHALL CONFORM TO THE 2020 EDITION OF ANSI/NFPA 70 (NATIONAL ELECTRICAL CODE), NECA STANDARD OF INSTALLATION, 2021 INTERNATIONAL BUILDING CODE, NFPA 101 (LIFE SAFETY CODE), ALL FEDERAL, STATE AND LOCAL REGULATIONS.
2.

AS A MINIMUM, ALL MATERIALS, EQUIPMENT AND DEVICES SHALL MEET THE REQUIREMENTS OF U.L. AND NFPA 70 WHERE SUCH STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY U.L. AS SUITABLE FOR THE PURPOSES USED.
3.

PROVIDE A NAMEPLATE (LAMINATED PLASTIC) FOR ALL MAJOR ITEMS OF ELECTRICAL EQUIPMENT (E.G. PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS, ETC.). NAMEPLATE SHALL BE ATTACHED WITH SCREWS, BOLTS OR RIVETS.
4.

PROVIDE TYPED DIRECTORIES FOR ALL PANELS LABLING ALL CIRCUITS SHOWING AS-BUILT CONDITIONS.
5.

THE NEUTRAL AND GROUND BUS SHALL BE BONDED TOGETHER AT THE SERVICE EQUIPMENT ONLY. THE GROUNDING CONDUCTOR SHALL BE BONDED TO THE GROUNDING ELECTRODE SYSTEM, COMPRISED OF A 3/4" X 10' RIVEN GROUND ROD, METALLIC PIPING, BUILDING STEEL, ETC. ALL SUBPANELS SHALL HAVE INSULATED NEUTRALS PER N.E.C. ARTICLE 250.
6.

ALL WIRING SHALL BE COPPER, 600 VOLT, WITH THHN/THWN INSULATION UNLESS NOTED OTHERWISE. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG FOR POWER AND LIGHTING CIRCUITS AND #16 AWG FOR CONTROL CIRCUITS UNLESS NOTED OTHERWISE. ALL WIRING SHALL BE INSTALLED IN CONDUIT UNLESS NOTED OTHERWISE.
7.

CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR LOCATIONS, SCHEDULE 40 PLASTIC CONDUIT (PVC) FOR EXTERIOR LOCATIONS, OR RIGID GALVANIZED STEEL (RGS) CONDUIT WHERE EXPOSED TO PHYSICAL DAMAGE UNLESS NOTED OTHERWISE.
8.

ALL CONDUIT LOCATED ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURAL MEMBERS OR CONCRETE DECKING. CONDUIT CANNOT BE SUPPORTED FROM CEILING GRID OR GRID HANGER WIRES.
9.

ALL MOUNTING BRACKETS, HANGERS, CLIPS, ETC. SHALL BE USED AS RECOMMENDED BY THE MANUFACTURER AS NECESSARY TO MOUNT AND SECURE LIGHT FIXTURES IN LOCATIONS SHOWN.
10.

TO MAINTAIN THE FIRE RATING OF THE BARRIER, THE OPENING AROUND CONDUIT THAT PENETRATES FIRE RATED BARRIERS (WALLS, FLOORS AND CEILINGS) SHALL BE SEALED WITH U.L. LISTED FIRE STOPPING MATERIAL
11.

WHERE POSSIBLE, CONDUIT SHOULD BE ROUTED THROUGH ROOF OPENINGS FOR PIPING AND DUCTWORK. WHERE SUCH ROUTING IS NOT FEASIBLE, ROOF JACK WITH PITCH POCKET SHALL BE PROVIDED.
12.

PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE ELECTRICAL WORK INDICATED HEREIN AND AS REQUIRED BY THE LOCAL AND STATE CODES AND ORDINANCES.
13.

COORDINATE ELECTRIC SERVICE WITH LOCAL UTILITY COMPANY, INTERRUPTING CAPACITY AND SHORT CIRCUIT BRACING OF EQUIPMENT SHALL BE COORDINATED WITH AND EXCEED VALUES GIVEN BY THE UTILITY COMPANY.
14.

PROVIDE POWER WIRING AND HOOK-UP FOR ALL MECHANICAL EQUIPMENT.
15.

THE ELECTRICAL CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM ANY DEFECTIVE WORKMANSHIP AND MATERIALS, USUAL WEAR EXPECTED, AND SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR (OR AS REQUIRED BY OWNER/TENANT) AFTER ACCEPTANCE OF THE BUILDING BY THE OWNER, THIS CONTRACTOR SHALL REPAIR AND / OR REPLACE ANY DEFECTIVE ITEMS AND DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE WHATSOEVER TO THE OWNER OR BUILDER.
16.

PROVIDE REQUIRED SERVICE AND EQUIPMENT GROUNDING SYSTEMS. THE CONDUIT SYSTEM SHALL FORM A CONTINUOUS PATH FOR GROUND.
17.

PROVIDE NEW ELECTRICAL MATERIALS AND EQUIPMENT WITH THE MANUFACTURERS NAME PRINTED THEREON AND UNDERWRITERS LABORATORY LISTED.
18.

VERIFY WITH OWNER ALL PHONE, CABLE, COMPUTER LINES AND OTHER SPECIAL ELECTRICAL LINES LOCATIONS BEFORE INSTALLATION.
19.

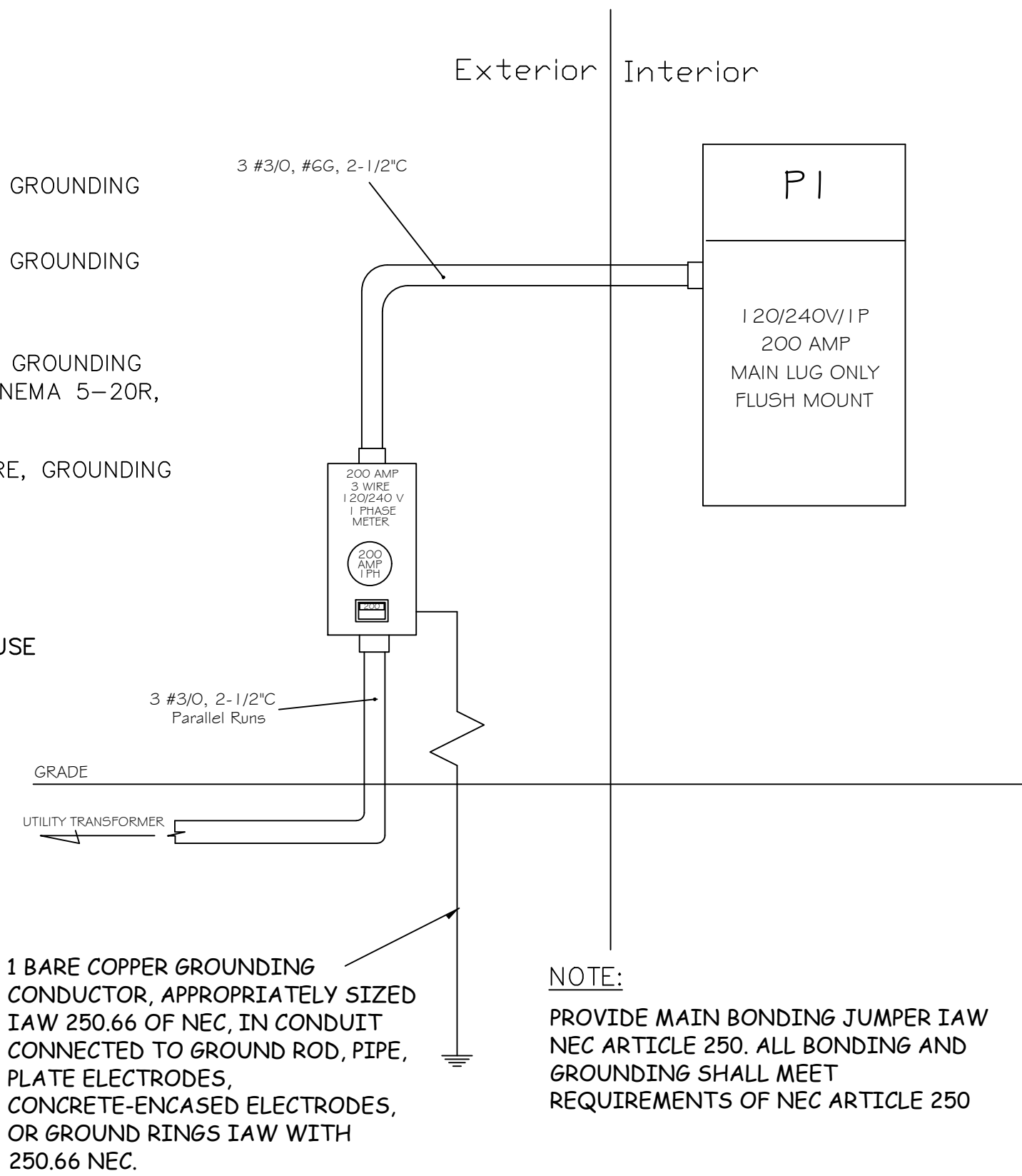
PERFORM ALL WORK IN A WORKMANLIKE MANNER AND NONE OF THE SAME SHALL DAMAGE OR WEAKEN THE STRUCTURAL INTEGRITY OF THE BUILDING.
20.

CONTRACTOR SHALL VERIFY ALL LOADS TO VERIFY THAT THE EQUIPMENT BEING INSTALLED WILL HAVE CAPACITY NOT TO EXCEED THAT IDENTIFIED. IF LOADS VARY, THE ENGINEER SHALL BE NOTIFIED FOR CHANGES.
21.

THE BRANCH CIRCUIT FEEDING THE EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVICING THE NORMAL LIGHTING IN THE AREA AND SHALL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES AS REQUIRED BY NEC, SECTION 700.12F.

LEGEND:

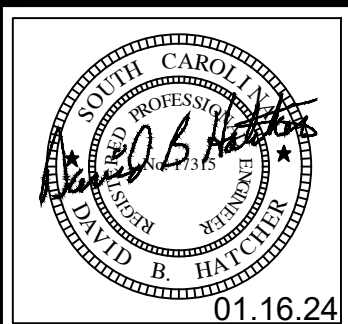
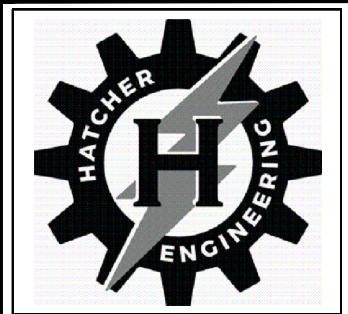
- DUPLEX RECEPTACLE OUTLET, 20 AMP, 125V AC, 2 POLE, 3 WIRE, GROUNDING (18" A.F.F. AND 6" ABOVE COUNTER) UNLESS NOTED OTHERWISE
- DUPLEX RECEPTACLE OUTLET, 20 AMP, 125V AC, 2 POLE, 3 WIRE, GROUNDING (18" A.F.F. AND 6" ABOVE COUNTER) UNLESS NOTED OTHERWISE
GROUND FAULT CIRCUIT INTERRUPTER (GFCI)
- DUPLEX RECEPTACLE OUTLET, 20 AMP, 125V AC, 2 POLE, 3 WIRE, GROUNDING (18" A.F.F. AND 6" ABOVE COUNTER) UNLESS NOTED OTHERWISE, NEMA 5-20R, WEATHER PROOF ENCLOSURE
- QUADPLEX RECEPTACLE OUTLET, 20 AMP, 125V AC, 2 POLE, 3 WIRE, GROUNDING (18" A.F.F. AND 6" ABOVE COUNTER) UNLESS NOTED OTHERWISE
- SINGLE POLE SWITCH, 20 AMP, 120-277V, AC (48" A.F.F. UNLESS NOTED OTHERWISE)
- LIGHTING FIXTURE, NTE 20 WATT LED, APPROVED FOR EXTERIOR USE
- WALL MOUNTED LIGHTING FIXTURE, NTE 20 WATT LED
APPROVED FOR EXTERIOR USE
- EMERGENCY LIGHTING, DOUBLE BULB TYP, BATTERY BACK UP (90 MINUTES) (32W HO LAMP)
- EXIT SIGN (2.7W LAMPS)
BATTERY BACK UP (90 MINUTES)
- EGRESS EMERGENCY LIGHT WITH BATTERY BACK UP (90 MINUTES) (32W HO LAMPS)



PANELBOARD 1									
Type 1		AMPS - 200 120 volts		amps 240 volts		Phase Wire 3		Mounting Type - Flush MLO	
NO.	Load Description	C/B	Amperes	Load	Poles	Capacity (VA)	VA Load / Phase	WIRE	CONDUIT
1	Lighting (Concessions)	20	2.2	1	2400	260		1#12, #12G	1/2"
3	Lighting (Rest Rooms)	20	1.3	1	2400	160		1#12, #12G	1/2"
5	Receptacle (Refrigerator)	20	10.0	1	2400	1200		1#12, #12G	1/2"
7	Receptacle (Refrigerator)	20	10.0	1	2400	1200		1#12, #12G	1/2"
9	Receptacle (Refrigerator)	20	10.0	1	2400	1200		1#12, #12G	1/2"
11	Receptacles (Counter Top)	20	10.0	1	2400	1200		1#12, #12G	1/2"
13	Receptacles (Counter Top)	20	10.0	1	2400	1200		1#12, #12G	1/2"
15	Receptacles (Counter Top)	20	10.0	1	2400	1200		1#12, #12G	1/2"
17	Receptacles (Counter Top)	20	10.0	1	2400	1200		1#12, #12G	1/2"
19	Receptaces (Rest Rooms)	20	10.0	1	2400	1200		1#12, #12G	1/2"
21	Spare								
23	Spare								
25	Spare								
27	Spare								
29	Spare								
31	Spare								
33	Spare								
35	Spare								
37	Spare								
39	Spare								
2	Lighting (Press Box)	20	1.7	1	2400	200		1#12, #12G	1/2"
4	Receptacles (Press Box)	20	10.0	1	2400	1200		1#12, #12G	1/2"
6	Receptacles (Press Box)	20	10.8	1	2400	1299		1#12, #12G	1/2"
8	Spare								
10	Spare								
12	Spare								
14	MS-1 (HP)	45	33.6	2	10800	4032		2#8, #10G	1"
16									
18	Water Heater	30	16.7	2	7200	2000		2#10, #10G	3/4"
20									
22	Spare								
24	Spare								
26	Spare								
28	Spare								
30	Spare								
32	Spare								
34	Spare								
36	Spare								
38	Spare								
40	Spare								
						A	B	Total VA	Amperes
						CONNECTED LOAD (VA)	12591	12192	24783
						DEMAND LOAD (VA)			103

ELECTRICAL NOTES, LEGEND, RISER AND PANEL PLAN

SCALE: NTS

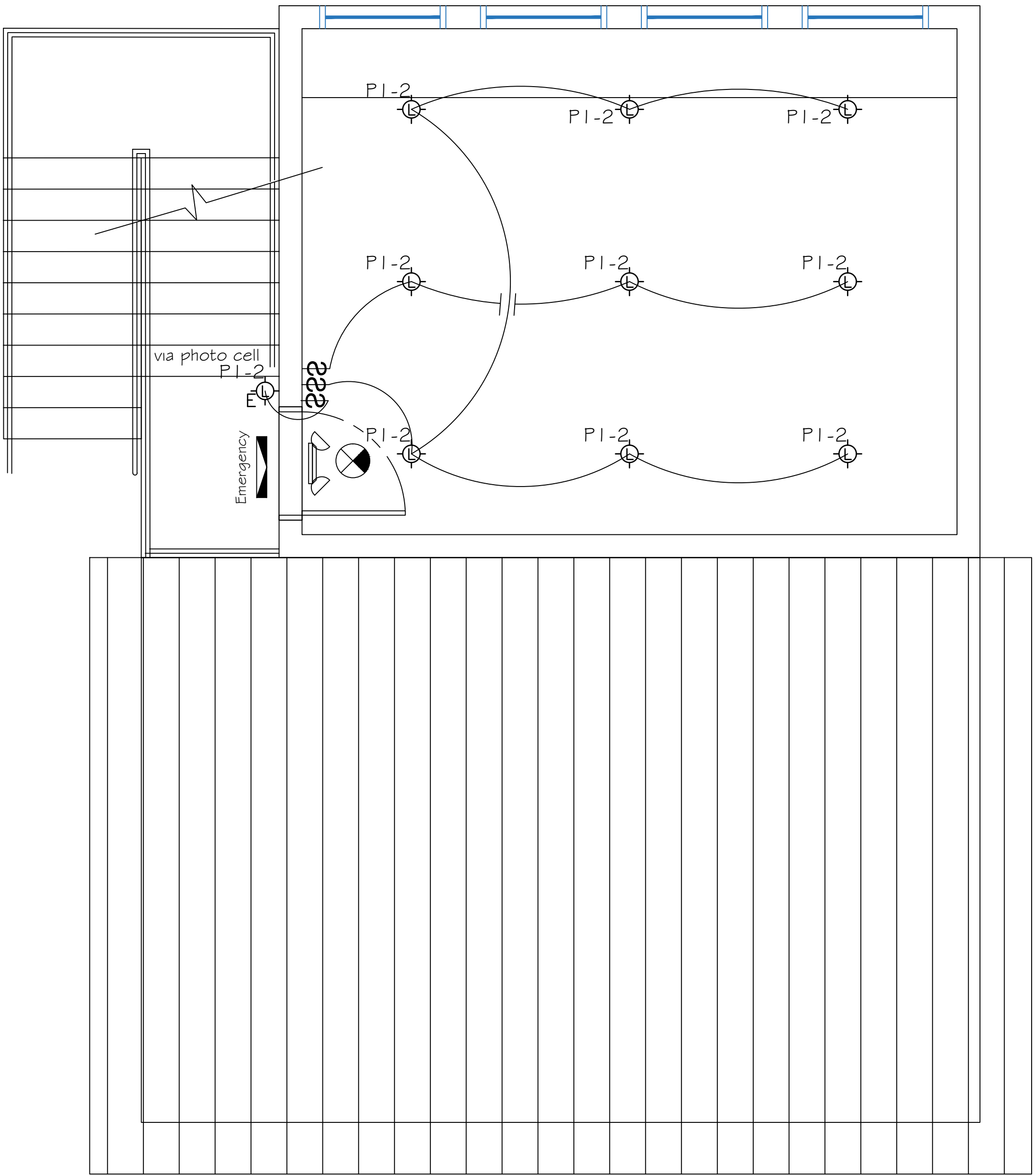
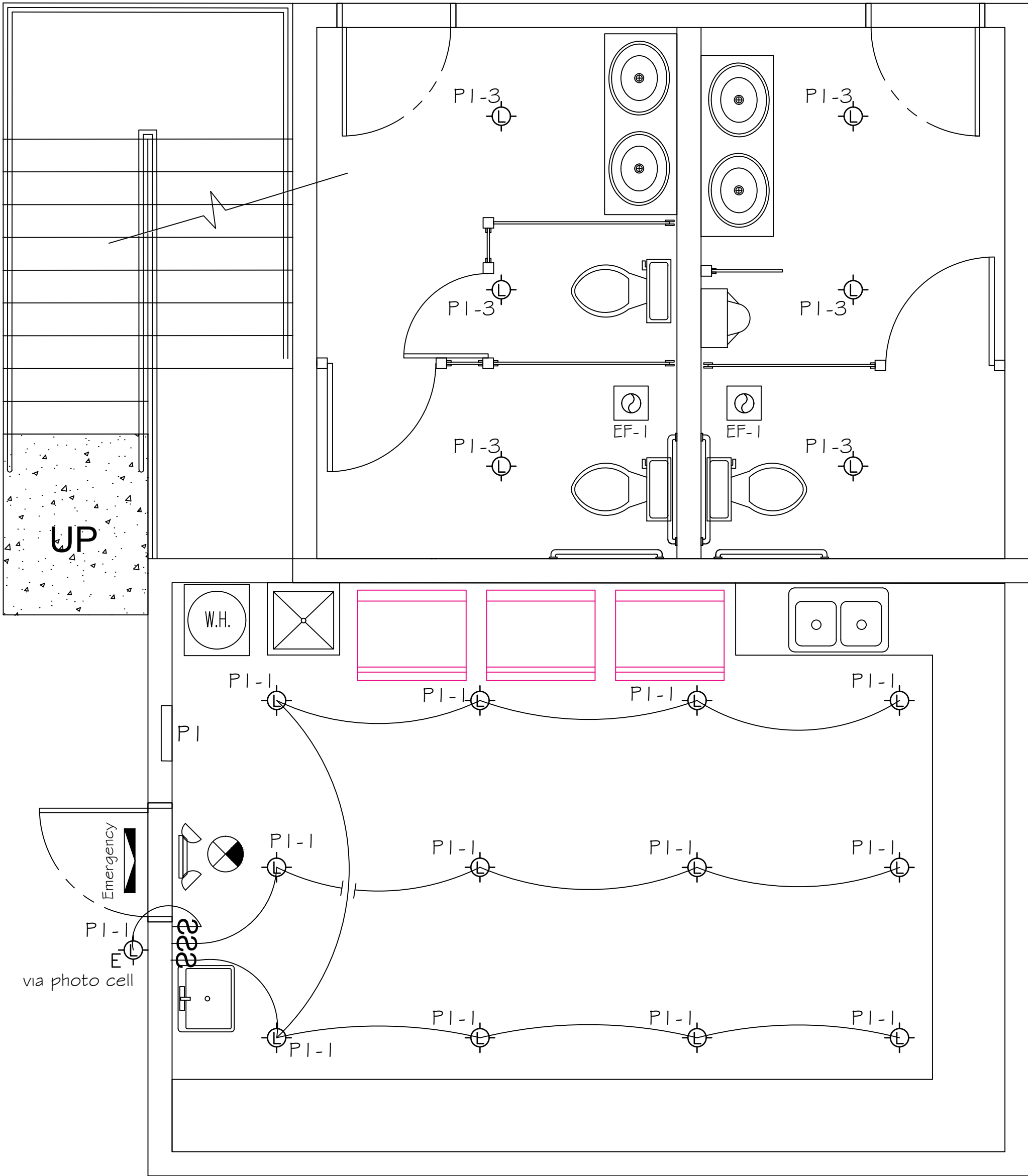


DAVID B HATCHER, PE, LLC
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HANAHAN, SC 29410
david@hatcher-engineering
phone: 843-860-9374
www.hatcher-engineering

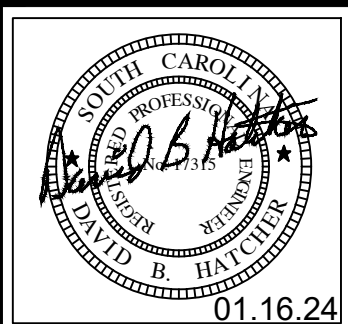
DATE	DESCRIPTION	REVISIONS

SUMMERVILLE SOFTBALL PRESS BOX	500 GREENWAVE BOULEVARD SUMMERVILLE, SOUTH CAROLINA	ELECTRICAL NOTES, LEGEND, RISER, AND PANEL PLAN
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PAGE SPECIFIC NOTES:
NOTE 1: THE BRANCH CIRCUIT FEEDING THE EXIT AND EMERGENCY LIGHTING FIXTURES SHALL BE THE SAME BRANCH CIRCUIT AS THAT SERVICING THE NORMAL LIGHTING FIXTURES IN THE AREA AND SHALL BE CONNECTED AHEAD OF ANY LOCAL SWITCHES AS REQUIRED BY NEC, SECTION 170.12F.



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



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REVISIONS	DESCRIPTION	DATE

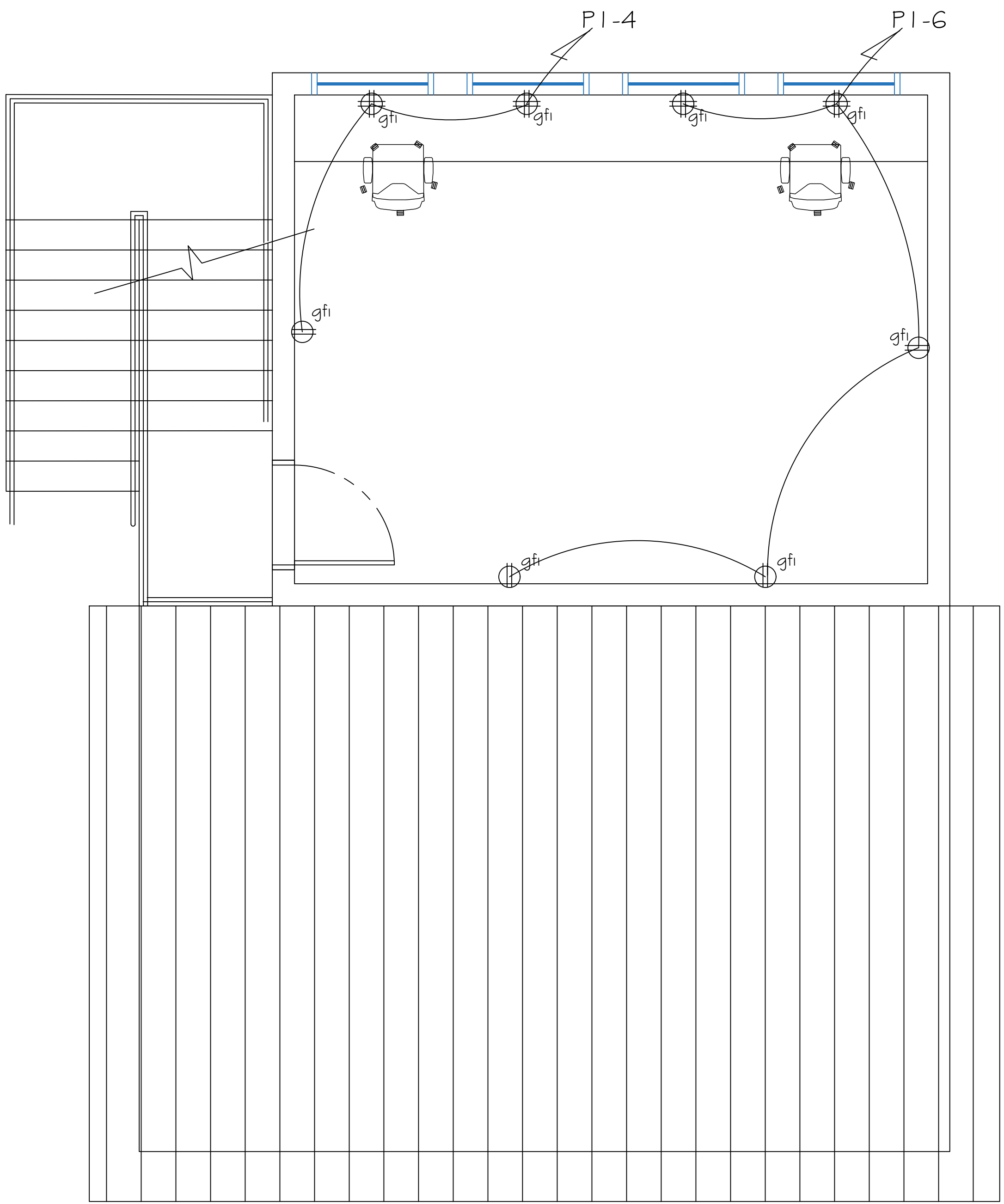
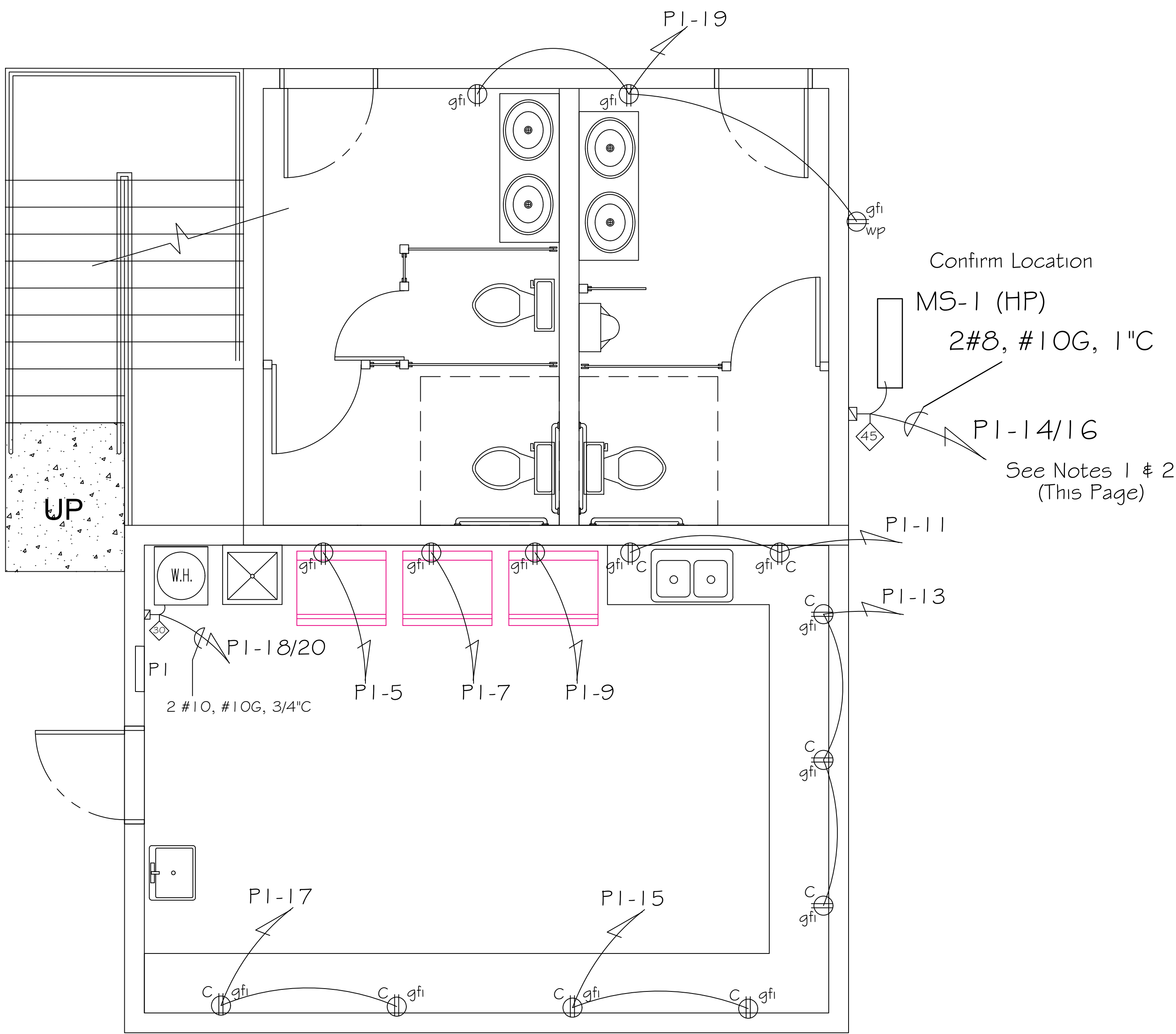
SUMMERVILLE SOFTBALL PRESS BOX	500 GREENWAVE BOULEVARD
500 GREENWAVE BOULEVARD	SUMMERVILLE, SOUTH CAROLINA
LIGHTING PLAN	

SHEET NUMBER & TITLE:
E2
PERMIT SET DATE: 01.16.2024

PAGE SPECIFIC NOTES:

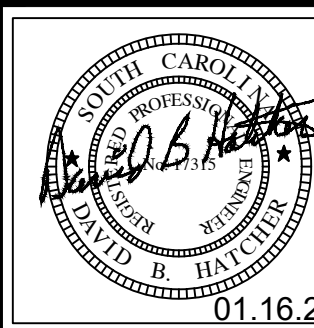
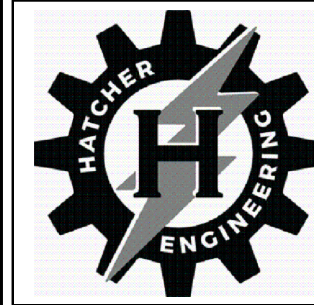
NOTE 1: IAW NEC ARTICLE 210.63, RECEPTACLES SHALL BE LOCATED ON THE SAME LEVEL WITHIN 25' OF THE HEATING AND AC EQUIPMENT. RECEPTACLE SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT'S DISCONNECTING MEANS. RECEPTACLE MAY BE CONNECTED TO A DEDICATED CIRCUIT AS SHOWN OR TO ANOTHER ACCEPTACLE BRANCH CIRCUIT.
field verify location

NOTE 2: ELECTRICAL INSTALLER SHALL CONFIRM SPECIFICATIONS OF ALL EQUIPMENT AND HVAC UNITS (INCLUDING HEAT STRIPS) TO CONFIRM APPROPRIATE BREAKER, WIRE, CONNECTOR AND CONDUIT SIZES. INSTALLATION SHALL BE COMPLETED IAW LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC)



POWER PLAN

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



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REVISIONS	DESCRIPTION	DATE

SUMMERVILLE SOFTBALL PRESS BOX	POWER PLAN
500 GREENWAVE BOULEVARD	
SUMMERVILLE, SOUTH CAROLINA	

SHEET NUMBER & TITLE:

E3

PERMIT SET
DATE: 01.16.2024

MECHANICAL NOTES:

- 1) ALL WORK SHALL BE PER LOCAL, NATIONAL CODES AND 2021 INTERNATIONAL MECHANICAL CODE AND THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE. INCLUDE COST OF PERMITS AND INSPECTIONS IN QUOTE.
- 2) INSTALL ALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- 3) DUCT DIMENSIONS ARE INSIDE CLEAR.
- 4) AIR BALANCE ALL EQUIPMENT, INCLUDING AIR HANDLING UNIT, DIFFUSERS, REGISTERS AND GRILLES TO THE AIR QUANTITIES INDICATED ON THE PLANS.
- 5) ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE OF WORK BY THE OWNER. COMPRESSORS SHALL BE WARRANTED FOR AN ADDITIONAL 4 YEARS.
- 6) MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONTROL WIRING FOR HVAC. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL CONTROL WIRING RACEWAYS AND POWER WIRING.
- 7) ALL FLEXIBLE DUCTS SHALL BE CONNECTED TO TRUNK OR BRANCH DUCTS WITH A MINIMUM OF THREE SHEET METAL SCREWS AT EACH CONNECTION AND TAPED TO PROVIDE AN AIR TIGHT SEAL.
- 8) DUCT HANGER STRAPS SHALL BE 1" NONMETALLIC WITH A 6" SADDLE (DO NOT COMPRESS THE INSULATION).
- 9) THE MAXIMUM ALLOWABLE LENGTH OF FLEXIBLE DUCT SHALL BE 6'-0".
- 10) INSTALL AIR VOLUME EXTRACTORS AT ALL BRANCH TO MAIN DUCT CONNECTIONS.
- 11) THE CONTRACTOR SHALL CAREFULLY COORDINATE THE LOCATION OF ALL DUCTS, GRILLES, DIFFUSERS, ETC. WITH THE PLUMBING, ELECTRICAL AND FRAMING CONTRACTORS.
- 12) ALL RETURN AIR GRILLES SHALL BE EASILY REMOVABLE FOR CLEANING.
- 13) THE CONTRACTOR SHALL CAREFULLY COORDINATE ALL THERMOSTAT LOCATIONS WITH INTERIOR FINISHES. VERIFY LOCATIONS WITH OWNER.
- 14) THE CONTRACTOR SHALL COOPERATE FULLY BETWEEN ALL OTHER TRADES.
- 15) ALL REFRIGERANT PIPING TO BE INSULATED WITH 3/4" FLEXIBLE ELASTOMERIC TYPE INSULATION ASTM C 534, TYPE I. COAT WITH WATER BASED LATEX ENAMEL COATING AS SPECIFIED.
- 16) ALL DUCTWORK SHALL BE 24 GA. RIGID GALVANIZED, INSULATED, FABRICATED AND INSTALLED ACCORDING TO THE MOST RECENTLY PUBLISHED SMACNA HVAC DUCT CONSTRUCTION STANDARDS – METAL AND FLEXIBLE.
- 17) PROVIDE MANUFACTURER PROGRAMMABLE THERMOSTATS.
- 18) PROVIDE 2.2" EXT. FOIL JACKETED INSULATION ON ALL DUCTWORK RUN IN UNCONDITIONED SPACES, SEAL W/ MASTIC SEALER. USE NEOPRENE GASKETS @ ALL TAKEOFFS.
- 19) CONTRACTOR SHALL PROVIDE A COMPLETE WORKING SYSTEM. ANY OMISSIONS OR CODE VIOLATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID.
- 20) INSTALL FIRE DAMPERS, SMOKE DAMPER, COMBINATION FIRE/SMOKE DAMPERS AND CEILING DAMPERS PER LOCATIONS PRESCRIBED IN SECTION 607.5 THROUGH 607.7 OF THE 2021 IMC
- 21) PROVIDE AIR BALANCE REPORT INDICATING:

1)QUANTITIES OF AIR AT EACH INLET/OUTLET FOR ALL EXHAUST, SUPPLY SYSTEM COMPONENTS.

2)STATIC PRESSURE IN INCHES OF WATER AT EACH SYSTEM INTAKE AND DISCHARGE.

R.P.M. OF EACH FAN.
- 22) REFRIGERATE LINE EXCEEDING 75' SHALL BE SIZED IAW MANUFACTURER SPECIFICATIONS
- 23) CLEARANCE BETWEEN AND AROUND ALL HEAT PUMPS (OUTSIDE UNITS) MUST BE IAW MANUFACTURER RECOMMENDATIONS.
- 24) PROVIDE MOP ON MASTIC AT ALL DUCT TRANSITIONS, MAIN TO PLENUM, BRANCH TO MAIN, AND BRANCH TO BOOT.

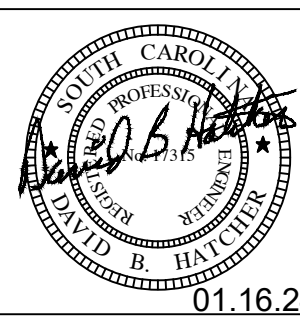
Split System Heatpump Schedule																			
SYMBOL	HP EQUAL TO		NOMINAL TONNAGE	NET COOLING CAPACITY KBTUH	NET HEATING CAPACITY MBH	SEER/EER (IEER)	HSPF (COP)	VOLTAGE	MCA	MOCP	AHU EQUAL TO		SUPPLY CFM	OUTSIDE AIR (CFM)	AUXILIARY ELEC. HTR.	VOLTAGE	MCA	MOCP	REMARKS
	MANUFACTURER	MODEL NO.									MANUFACTURER	MODEL NO.							
MS1(HP)/MS1-1(IU1)	mitsubishi	MXZ-8C48NA2	4.0	48	48	18	10	208-230/1/60	42	45	mitsubishi	MSZ-GL24NA	800						1,2,3
MS1-1(IU2)											mitsubishi	MSZ-GL24NA	800						1,2,3
																			1,2,3
																			1,2,3
																			1,2,3

- REMARKS:
1. PROVIDE WITH SINGLE POINT ELECTRICAL CONNECTION.
2. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL SUB-CONTRACTOR.
3. MANUFACTURER SELECTED FOR DESIGN PURPOSES. USE OF SIMILAR UNITS FROM OTHER MANUFACTURER IS ACCEPTABLE.

FAN SCHEDULE									
MANUFACTURER	MODEL	MARK	CFM	MINIMUM EXTERNAL STATIC PRESSURE DROP (IN H O)	MOTOR		DRIVE	AREA SERVED	REMARKS & ACCESSORIES
					POWER	V/PH/HZ			
GREENHECK	SP-A190	EF-1	186	.25	.45A	115/1/60	DIRECT	RESTROOM	CEILING MOUNTED, CABINET TYPE W/INTEGRAL BACKDRAFT DAMPER

MECHANICAL NOTES, LEGEND, & SCHEDULES

SCALE: NTS



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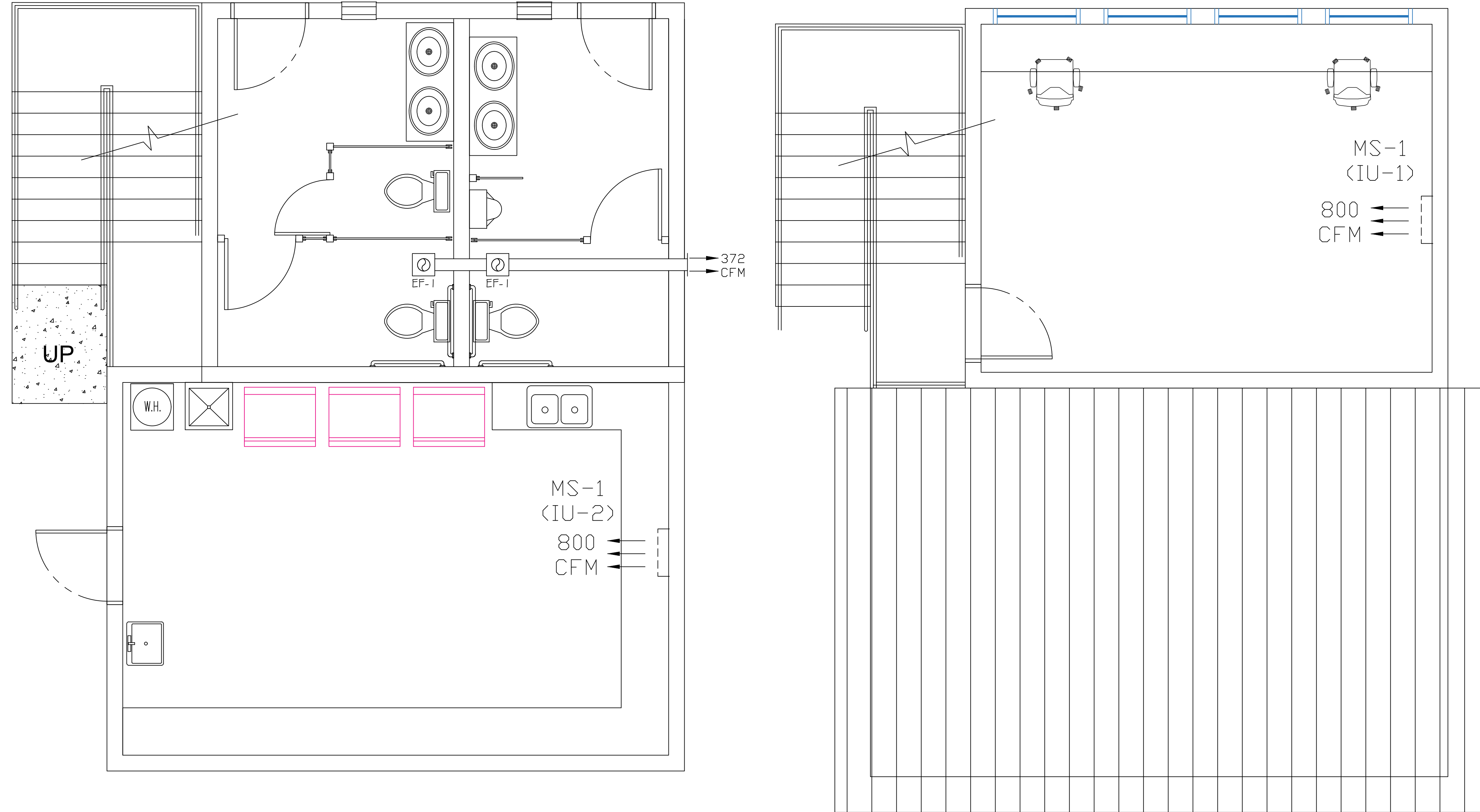
DATE				
DESCRIPTION				
REVISIONS				

SUMMERVILLE SOFTBALL PRESS BOX	500 GREENWAVE BOULEVARD SUMMERVILLE, SOUTH CAROLINA	MECHANICAL NOTES, LEGEND, & SCHEDULES
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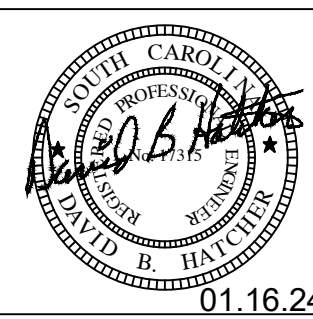
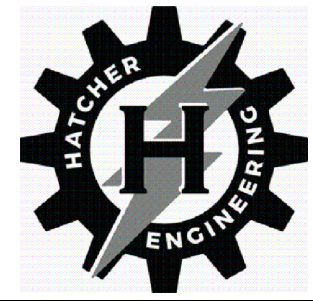
SHEET NUMBER & TITLE:

M1

PERMIT SET
DATE: 01.16.2024



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



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REVISIONS	DESCRIPTION	DATE

SUMMERVILLE SOFTBALL PRESS BOX	500 GREENWAVE BOULEVARD
SUMMERVILLE, SOUTH CAROLINA	
HVAC PLAN	

SHEET NUMBER & TITLE:

M2

PERMIT SET
DATE: 01.16.2024

PLUMBING SPECIFICATIONS:

GENERAL: CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND MANAGEMENT NECESSARY OR REASONABLY INCIDENTAL TO COMPLETE THE WORK SHOWN ON THE DRAWINGS AND/OR DESCRIBED IN THE SPECIFICATIONS. THE PLUMBING CONTRACTOR SHALL ALSO REFER TO EQUIPMENT SUPPLIER'S SCHEDULE TO VERIFY THAT ALL THE UTILITIES ARE PROVIDED.

CODES AND ORDINANCES: ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN STRICT ACCORDANCE WITH REQUIREMENTS OF THE OWNER'S INSURANCE CARRIER, NFPA CODES, STATE AND LOCAL LAWS, CODES AND THE 2021 INTERNATIONAL PLUMBING CODES, AND ALL LAWS, RULES AND REGULATIONS OF PUBLIC BODIES HAVING JURISDICTION. ALL ACCESSIBLTY DIMENSIONS SHALL CONFORM TO ANSI 117.1–2017. TEMPERING VALVES SHALL CONFORM TO ASSE 1070(607.1).

INTERFERENCES: CONTRACTOR SHALL VISIT THE SITE AND INSPECT THE AREA WHERE THE WORK IS TO BE PERFORMED. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMMODATING ALL INTERFERENCES WITH THE WORK, OFFSETTING, MODIFYING, AND OTHERWISE FITTING THE NEW EQUIPMENT TO THE SPACE AVAILABLE. THESE DRAWINGS ARE BASED ON EXISTING CONDITIONS AS SEEN DURING SITE INSPECTION. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES.

GUARANTEE: ALL MATERIALS AND WORKMANSHIP PROVIDED SHALL BE WARRANTED AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK.

CLEAN-UP: ALL DEBRIS, RUBBISH, SCRAPS, ETC. SHALL BE CLEANED UP AT THE END OF EACH WORK DAY. AT THE COMPLETION OF THE WORK, ALL NEW CONSTRUCTION WORK AND MATERIALS SHALL BE CLEANED UP OF MARKINGS, DIRT, ETC. AND LEFT IN A CLEAN AND SIGHTLY CONDITION, READY FOR USE BY THE OWNER.

PIPING MATERIALS:

POTABLE WATER: POTABLE WATER PIPE SHALL BE ASTM B–88 HARD DRAWN COPPER, TYPE L OR K. FITTINGS SHALL BE ANSI B–16.22, WROUGHT COPPER, SOLDER JOINT. JOINTS SHALL BE MADE USING NON–CORROSIVE FLUX AND SOLDER COMPOUND MEETING NSF REQUIREMENTS FOR USE ON POTABLE WATER PIPING. PIPE ENDS SHALL BE CUT SQUARE AND CLEANED TO A BRIGHT METAL FINISH BEFORE SOLDERING. PEX IS AN ACCEPTABLE ALTERNATE.

SANITARY SEWER WASTE AND VENT ABOVE GROUND: SANITARY SEWER PIPE AND FITTINGS SHALL BE EITHER CAST IRON, ASTM A–74, SERVICE WEIGHT, HUB AND SPIGOT PATTERN WITH ASTM C–564 RESILIENT GASKETS; OR HUBLESS CAST–IRON PIPE AND FITTINGS, ASTM A 888, CISPI–301, WITH STANDARD, SHIELDED, STAINLESS–STEEL COUPLINGS CONFORMING TO CISPI–310, WITH STAINLESS–STEEL CORRUGATED SHIELD, STAINLESS–STEEL BANDS AND TIGHTENING DEVICES, AND ASTM C–564, RUBBER SLEEVE; OR SCHEDULE 40 PVC DRAIN, WASTE AND VENT (DWV) PIPE AND FITTINGS, ASTM D–2665 WITH SOLVENT CEMENT JOINTS INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

SANITARY SEWER WASTE AND VENT BELOW GROUND: SANITARY SEWER PIPE AND FITTINGS SHALL BE EITHER CAST IRON, ASTM A–74, SERVICE WEIGHT, HUB AND SPIGOT PATTERN WITH ASTM C–564 RESILIENT GASKETS; OR HUBLESS CAST–IRON PIPE AND FITTINGS, ASTM A 888, CISPI–301, WITH HEAVY DUTY JOINTS CONFORMING TO ASTM C–1540 EQUAL TO HUSKY SD–4000, WITH HEAVY DUTY TYPE 304 STAINLESS STEEL SHIELDED COUPLINGS HAVING 4 SEALING CLAMPS FOR PIPE SIZES 1–1/2" THRU 4" AND 6 SEALING CLAMPS FOR PIPE SIZES 5" THRU 10"; OR SCHEDULE 40 PVC DRAIN, WASTE AND VENT (DWV) PIPE AND FITTINGS, ASTM D–2665 WITH SOLVENT CEMENT JOINTS INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

TRAP PRIMERS: PROVIDE TRAP PRIMERS IN ACCORDANCE WITH 2021 IPC. TAILPIECE PRIMERS ARE ACCEPTABLE.

PIPE SUPPORTS: PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE IN A NEAT, PERMANENT AND STABLE MANNER. WHERE BUILDING STRUCTURAL MEMBERS ARE NOT LOCATED TO SUIT EXACT REQUIREMENTS FOR PIPING SUPPORTS, THE CONTRACTOR SHALL FURNISH AND INSTALL SUCH ADDITIONAL STRUCTURAL STEEL MEMBERS AS MAY BE REQUIRED TO SAFEGUARD PIPING INSTALLATION AND BUILDING STRUCTURE.

PIPE PAINTING: ALL UNINSULATED STEEL PIPING SHALL BE THOROUGHLY CLEANED, PRIMED AND PAINTED. PIPE CLEANING SOLVENT SHALL BE A NON–OILY SOLVENT EQUAL TO STODDARD SOLVENT OR HI–FLASH COAL TAR NAPHTHA. PRIME COATING MATERIAL SHALL BE ALKYD ZINC CHROMATE. FINISH MATERIAL SHALL BE ALUMINUM ALKYD PAINT. SURFACE PREPARATION AND PAINT APPLICATION SHALL BE IN STRICT ACCORDANCE WITH PAINT MANUFACTURER'S RECOMMENDATIONS.

PIPE INSULATION: ALL HOT AND COLD WATER PIPING SHALL BE INSULATED. PIPING LOCATED IN INACCESSIBLE LOCATIONS SHALL BE INSULATED WITH NOMINAL 1/2" THICK ELASTOMERIC FOAM INSULATION EQUAL TO ARMSTRONG ARMAFLEX 22. ALL JOINTS SHALL BE MITERED AND SEALED WITH INSULATION MANUFACTURER'S APPROVED ADHESIVE EQUAL TO ARMSTRONG 520–620 INSULATION ADHESIVE. EXPOSED AND ACCESSIBLE PIPING SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION WITH ALL–SERVICE JACKET. HOT WATER PIPING INSULATION SHALL BE 1" THICK. COLD WATER PIPING INSULATION SHALL BE 1/2" THICK WITH VAPOR BARRIER. VAPOR BARRIER AT COLD WATER PIPING JOINTS SHALL BE MAINTAINED BY MEANS OF MASTIC AND TAPE. ALL FITTINGS, VALVES, ETC. SHALL BE INSULATED WITH THE SAME MATERIAL AND PROVIDED WITH PLASTIC FITTING COVERS. FLAME SPREAD AND SMOKE–DEVELOPED INDEXES SHALL NOT EXCEED 25/50.

SHUT OFF VALVES: ALL FIXTURES INCLUDING WATER HEATERS ARE TO HAVE SHUT OFF VALVES @ THE HOT AND COLD WATER PIPES.

PIPE TESTING:

POTABLE WATER: ALL WATER PIPING SHALL BE TESTED BEFORE COVERING. TWO (2) HOURS. TESTS SHALL COMPLY TO AWWA STANDARD C–60–77, SECTION 4.1.

SANITARY SEWER: SANITARY SEWER PIPING SHALL BE TESTED BEFORE COVERING. ALL OPENINGS, EXCEPT HIGHEST VENT SHALL BE PLUGGED AND THE SYSTEM FILLED WITH WATER TO 10'–0" ABOVE HIGHEST FIXTURE CONNECTED. SYSTEM SHALL STAND WITHOUT LEAK OR LOSS OF WATER FOR A PERIOD OF NOT LESS THAN FOUR (4) HOURS.

STERILIZATION: ALL POTABLE WATER SYSTEM PIPING, FITTINGS AND FIXTURES SHALL BE STERILIZED (DISINFECTED) AND FLUSHED PRIOR TO USE IN ACCORDANCE WITH THE LATEST EDITION OF AMERICAN WATER WORKS ASSOCIATION STANDARD AWWA C–601.

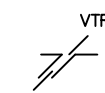
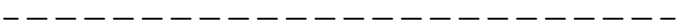
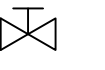
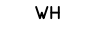
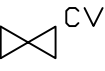
PLUMBING FIXTURE SCHEDULE					
FIXTURE	DESCRIPTION	SUPPLY	WASTE	VENT	REMARKS
P–1	ADA COMPLIANT TANK TYPE WATER CLOSET	3/4" CW	3"	2"	
P–2	TANK TYPE WATER CLOSET	3/4" CW	3"	2"	
P–3	URINAL	3/4" CW	3"	2"	
P–4	LAVATORY	1/2" CW 1/2" HW	1–1/2"	1–1/2"	
P–5	FLOOR DRAIN	CW TRAP PRIMER	3"	2"	
P–6	HAND SINK	1/2" CW 1/2" HW	1–1/2"	1–1/2"	
P–7	MOP/UTILITY SINK	3/4" CW 3/4" HW	3"	2"	
P–8	2 COMPARTMENT SS SINK	1/2" CW 1/2" HW	2"	2"	

REMARKS: 1. PROVIDE TEMPERED WATER TO ALL LAVATORIES PER SECTION 607.1.2 I.P.C.

WATER HEATER SCHEDULE											
MARK	TYPE	STORAGE	RECOVERY @ 60 F RISE	TOTAL	# OF	KW OF EACH	EFF	V-PH-HZ	MANUF.	MODEL #	COMMENTS
WH-1	ELEC.	30 GAL	27 GPH	4.0	2	4.0	.91	240-1-60	STATE	PCE-30-20LSA	SET TO 110 DEGREES

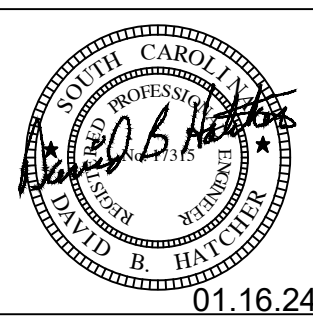
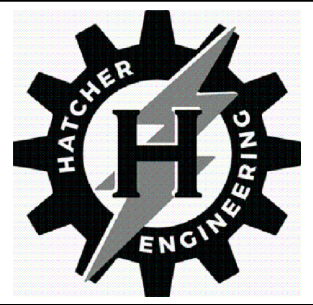
SIMILAR UNITS TO MANUFACTURER NAME AND MODEL ARE ACCEPTABLE

PLUMBING LEGEND

	VENT THROUGH ROOF		SOIL OR WASTE LINE (W)	P–#	PLUMBING FIXTURE NUMBER
	WALL CLEANOUT		VENT LINE (V)	AFF	ABOVE FINISH FLOOR
	FLOOR CLEANOUT		COLD WATER LINE (C)	FCO	FLOOR CLEAN OUT
	GRADE CLEANOUT		HOT WATER LINE (H)	CW	COLD WATER
	P TRAP		SHUT OFF VALVE	HW	HOT WATER
	WATER HEATER		CHECK VALVE	FD	FLOOR DRAIN
				TP	TRAP PRIMER

PLUMBING NOTES, LEGEND, & SCHEDULES

SCALE: NTS



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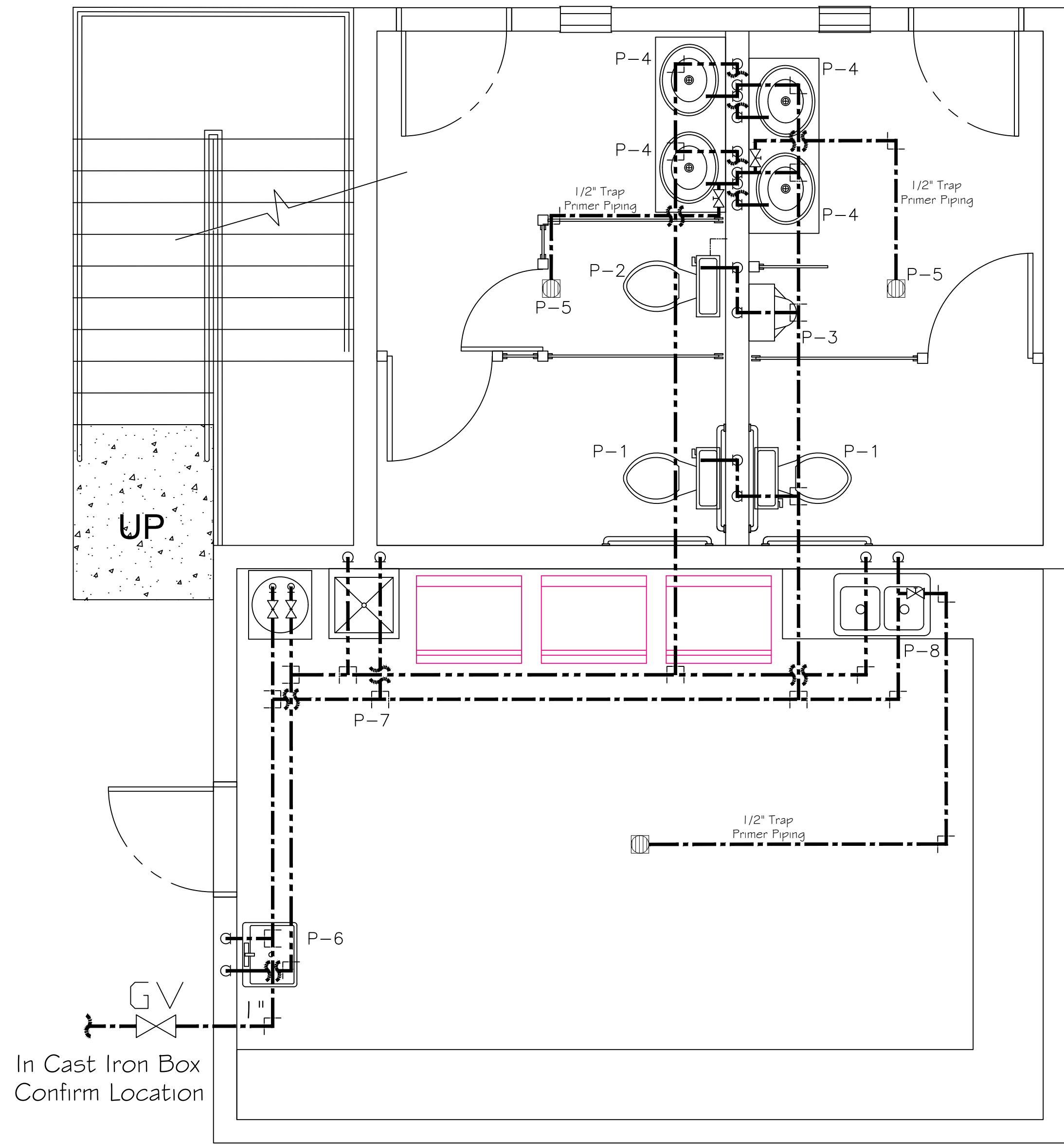
DATE				
DESCRIPTION				
REVISIONS				

SUMMERVILLE SOFTBALL PRESS BOX	500 GREENWAVE BOULEVARD SUMMERVILLE, SOUTH CAROLINA	PLUMBING NOTES, LEGEND, & SCHEDULES
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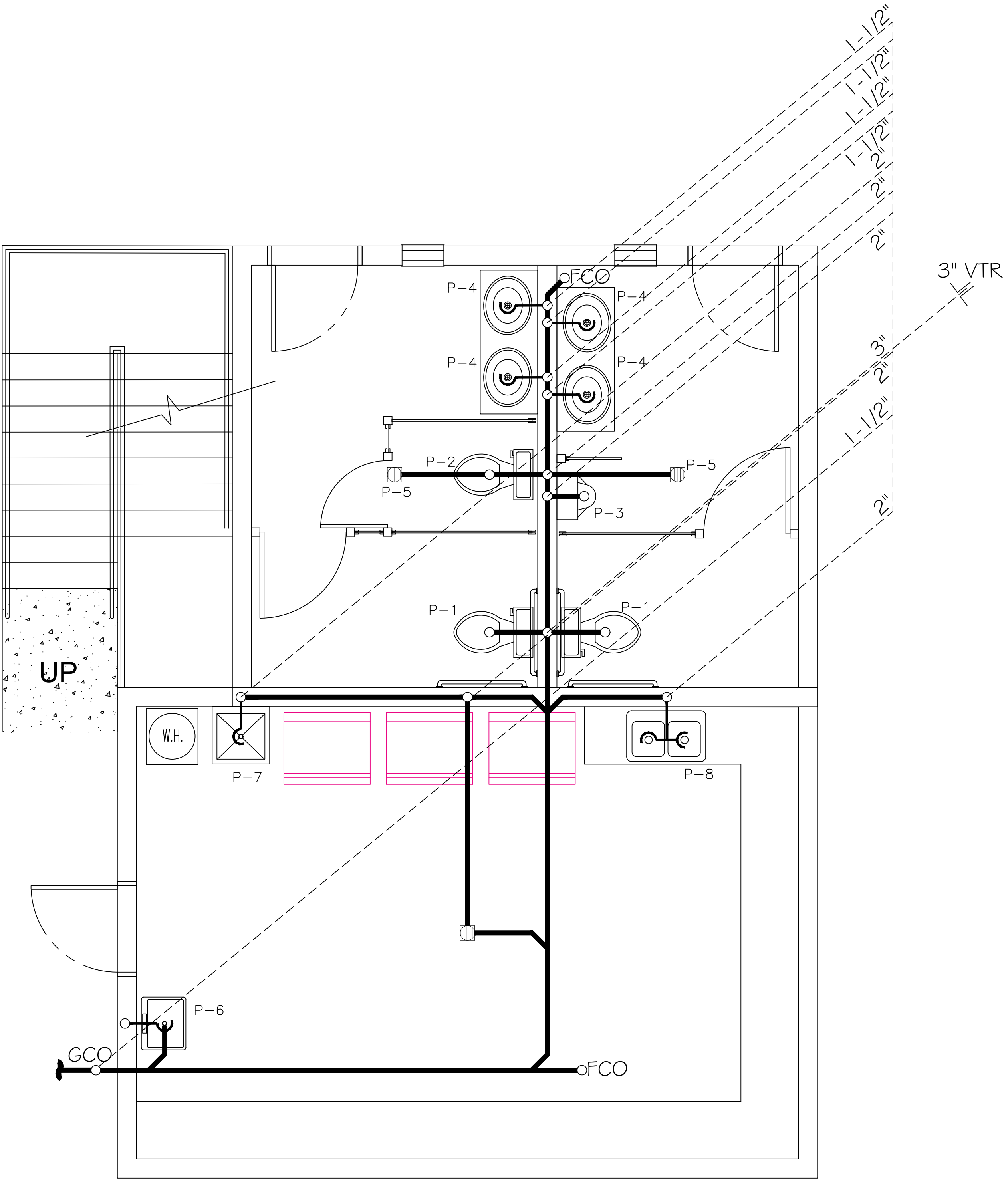
SHEET NUMBER & TITLE:

P1

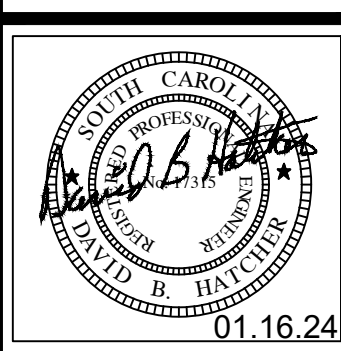
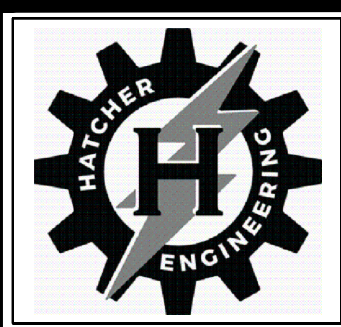
PERMIT SET
DATE: 01.16.2024



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



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



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david@hatcher.engineering
phone: 843-860-9374
www.hatcher.engineering

REVISIONS	DESCRIPTION	DATE

SUMMERVILLE SOFTBALL PRESS BOX
500 GREENWAVE BOULEVARD
SUMMERVILLE, SOUTH CAROLINA
PLUMBING AND SANITARY PLAN

SHEET NUMBER & TITLE:

P2

PERMIT SET
DATE: 01.16.2024

Visual - Interior Tool



Design Information

Project Name Summerville Softball
Project Description Cocessions

Tuesday, October 29, 2024

Your Name David B Hatcher, PE
Company Name David B Hatcher, PE, LLC
Your Phone 8438609374
Your Email david@hatcher.engineering

Calculation Results

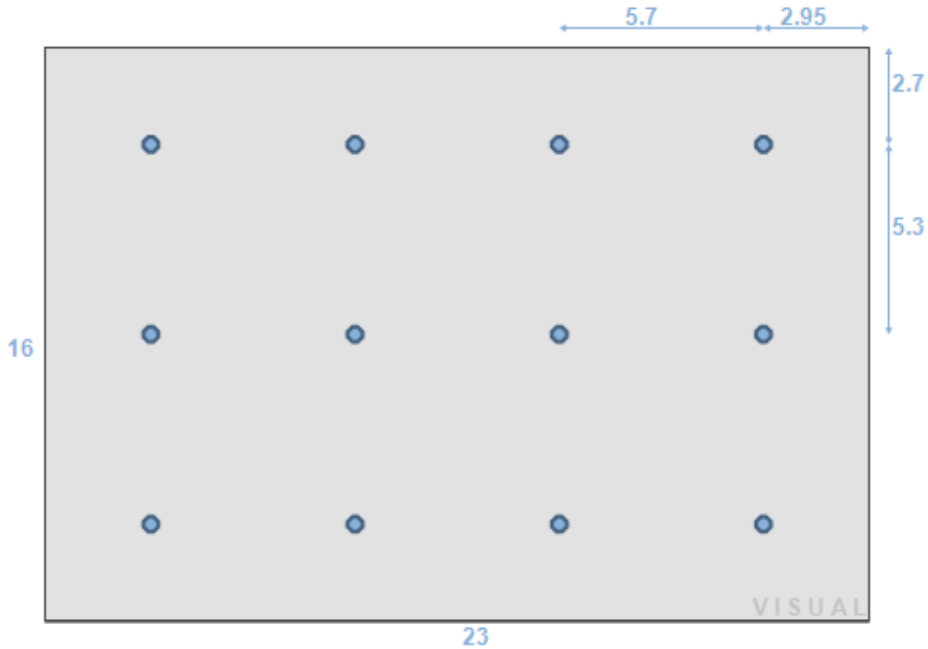
Illuminance 27 fc
Power Density 0.44 W/ft²
Quantity 12

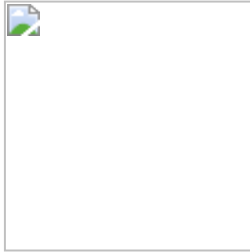
Spacing Results

Spacing 5.7 x 5.3 ft
Arrangement 4 x 3
Offset X 2.74 ft
Offset Y 2.49 ft

Room Summary

Length 23 ft
Width 16 ft
Height 10 ft
Workplane 2.5 ft
Reflectances
Ceiling 80 %
Walls 50 %
Floor 20 %





Light Loss Factor	1	Lamp Lumens	1201	Wattage	13.5 Watts
Suspension Length	0 ft	Lamp Quantity	1	CU	0.7

These lighting calculation results are for general informational purposes only and are provided without warranty as to accuracy, completeness, reliability or otherwise. Results are based on user provided data and data provided from publicly available sources; actual field conditions may affect calculated output. Visit www.Visual-3D.com .

Visual - Interior Tool



Design Information

Project Name Summerville Softball
Project Description Mens Rest Room

Tuesday, October 29, 2024

Your Name David B Hatcher, PE
Company Name David B Hatcher, PE, LLC
Your Phone 8438609374
Your Email david@hatcher.engineering

Calculation Results

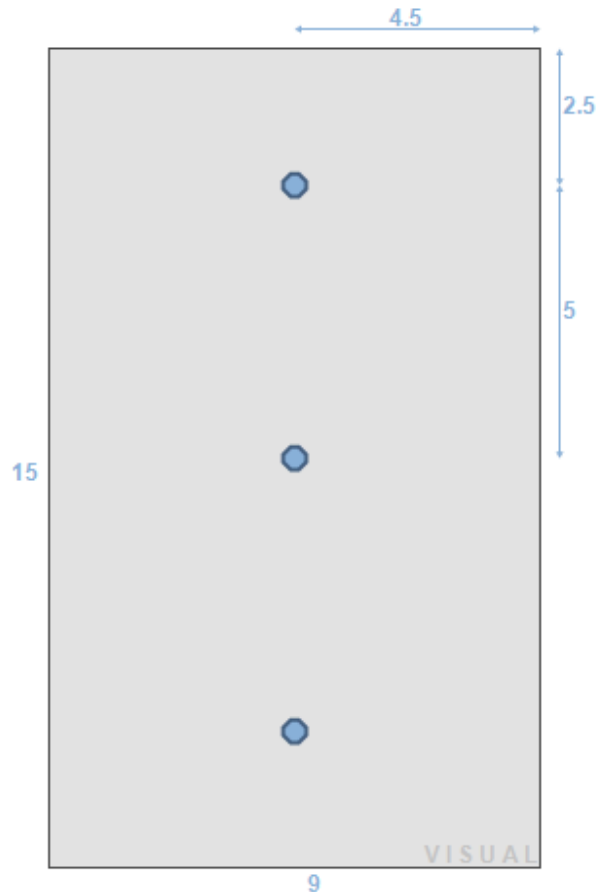
Illuminance 14 fc
Power Density 0.3 W/ft²
Quantity 3

Spacing Results

Spacing 0 x 5 ft
Arrangement 1 x 3
Offset X 4.29 ft
Offset Y 2.29 ft

Room Summary

Length 9 ft
Width 15 ft
Height 10 ft
Workplane 2.5 ft
Reflectances
Ceiling 80 %
Walls 50 %
Floor 20 %



Lithonia Lighting [A] - WF6 LED 40K



Light Loss Factor	1	Lamp Lumens	1201	Wattage	13.5 Watts
Suspension Length	0 ft	Lamp Quantity	1	CU	0.52

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Visual - Interior Tool



Design Information

Project Name Summerville Softball
Project Description Press Box

Tuesday, October 29, 2024

Your Name David B Hatcher, PE
Company Name David B Hatcher, PE, LLC
Your Phone 8438609374
Your Email david@hatcher.engineering

Calculation Results

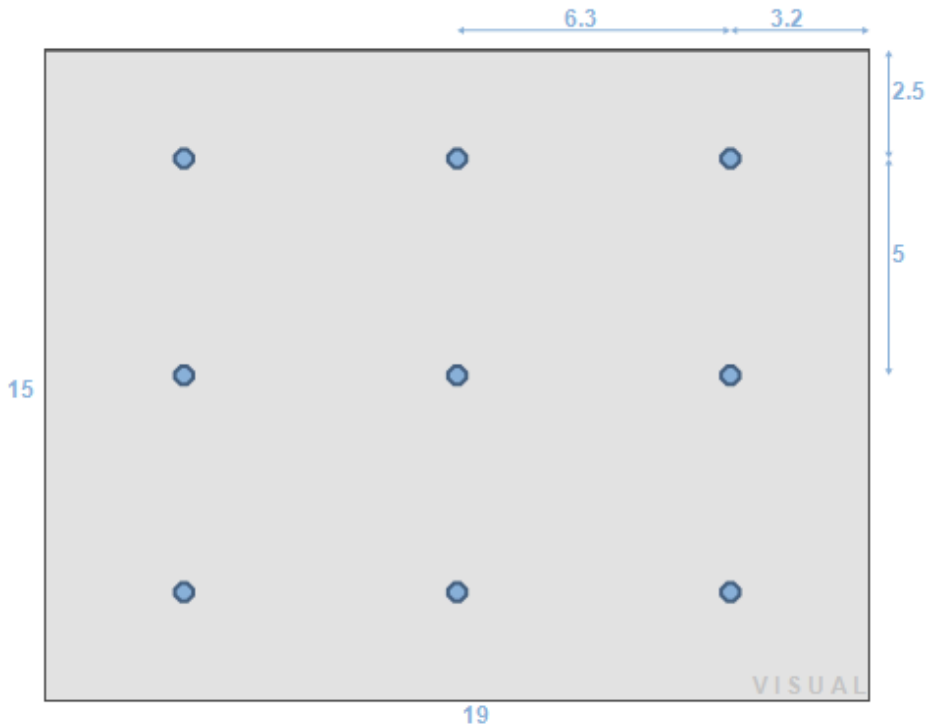
Illuminance 25 fc
Power Density 0.43 W/ft²
Quantity 9

Spacing Results

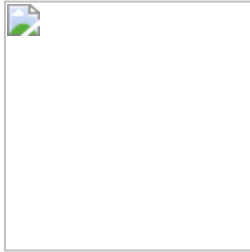
Spacing 6.3 x 5 ft
Arrangement 3 x 3
Offset X 2.99 ft
Offset Y 2.29 ft

Room Summary

Length 19 ft
Width 15 ft
Height 10 ft
Workplane 2.5 ft
Reflectances
Ceiling 80 %
Walls 50 %
Floor 20 %



Lithonia Lighting [A] - WF6 LED 40K



Light Loss Factor	1	Lamp Lumens	1201	Wattage	13.5 Watts
Suspension Length	0 ft	Lamp Quantity	1	CU	0.66

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Visual - Interior Tool



Design Information

Project Name Summerville Softball
Project Description Women's Rest Room

Tuesday, October 29, 2024

Your Name David B Hatcher, PE
Company Name David B Hatcher, PE, LLC
Your Phone 8438609374
Your Email david@hatcher.engineering

Calculation Results

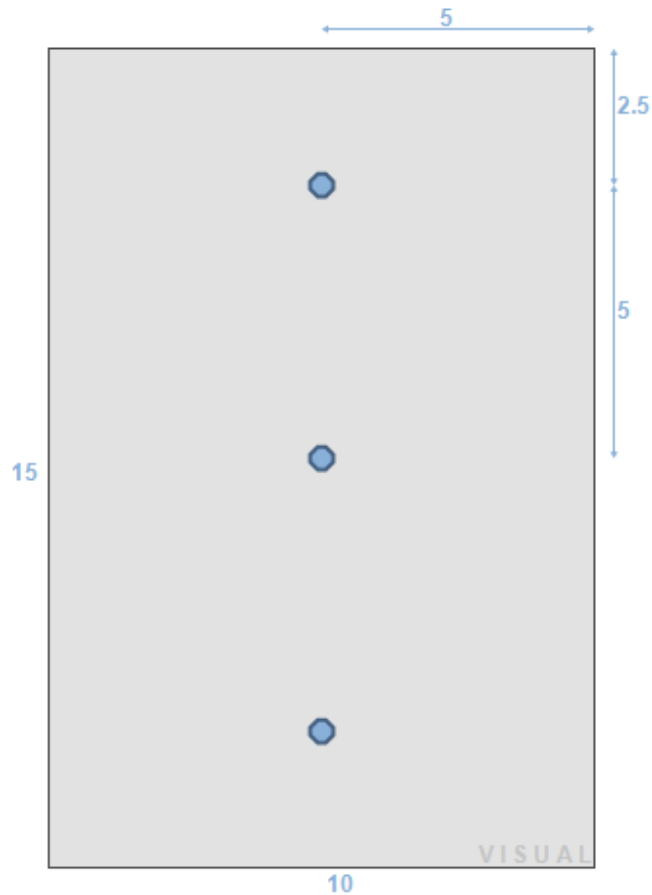
Illuminance 13 fc
Power Density 0.27 W/ft²
Quantity 3

Spacing Results

Spacing 0 x 5 ft
Arrangement 1 x 3
Offset X 4.79 ft
Offset Y 2.29 ft

Room Summary

Length 10 ft
Width 15 ft
Height 10 ft
Workplane 2.5 ft
Reflectances
Ceiling 80 %
Walls 50 %
Floor 20 %



Lithonia Lighting [A] - WF6 LED 40K



Light Loss Factor	1	Lamp Lumens	1201	Wattage	13.5 Watts
Suspension Length	0 ft	Lamp Quantity	1	CU	0.55

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Form F3 – Building Code Analysis

Date: 10.16.24

SUBMITTAL:	☐ Schematic	☐ Design Development	☒ Construction Document
------------	------------------------------------	---	---

SC CODE EDITION:	2021	ICC CODE EDITION:	2021	ICC A117.1 EDITION:	2017	OSF GUIDE EDITION:	2023
OTHER CODES/STANDARDS & EDITIONS:							

PROJECT DESCRIPTION: <i>[Brief Scope of Work & Include project delivery method (i.e. CMR, etc.)]</i> new 2-story softball field pressbox, 1056 sf
--

BASIC BUILDING CODE INFORMATION						
DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
	-	☐ SCBC ☐ SCEBC	☐ SCBC ☐ SCEBC	☐ SCBC ☐ SCEBC	☐ SCBC ☐ SCEBC	☐ SCBC ☐ SCEBC
CONSTRUCTION CLASSIFICATION TYPE	Section 602	VB				
OCCUPANCY GROUP (indicate all)	Section 302	B				
MOST RESTRICTIVE OCCUPANCY GROUP	Tables 504.3, 504.4 & 506.2	B				
Does building require Incidental Use Area Separation?	Table 509	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Does building have Accessory Occupancy (ies)?	Section 508.2	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
What is the aggregate square footage of the accessory occupancy (ies)?	Section 508.2	SF	SF	SF	SF	SF
What percent of the story is the aggregate of the accessory occupancy (ies)?	Section 508.2	%	%	%	%	%
Mixed Occupancy	Section 508	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
		☒ Nonseparated ☐ Separated	☐ Nonseparated ☐ Separated	☐ Nonseparated ☐ Separated	☐ Nonseparated ☐ Separated	☐ Nonseparated ☐ Separated



Form F3 – Building Code Analysis

EXISTING BUILDING CODE INFORMATION [SCEBC]			
DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3
Method of Compliance: (Check only one Option and all items that apply under that Option.)	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building
	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF
	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Edition Applicable at the time of Construction:			
Existing Sprinkler System?	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☐ Auto	☐ Manual ☐ Auto	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO



Form F3 – Building Code Analysis

Change of Occupancy:	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Class(s): New Occupancy Classification(s):
Historic Building:	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

EXISTING BUILDING CODE INFORMATION [SCEBC]

DESIGNATED AREAS OF BUILDING	Area 4	Area 5
Method of Compliance: <i>(Check only one Option and all items that apply under that Option.)</i>	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building	☐ Option 1: Prescriptive Compliance Method (Ch. 3, 5) ☐ Alteration ☐ Addition ☐ Change of Occupancy ☐ Historic Building
	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF	☐ Option 2: Work Area Compliance Method (Ch. 3, 6-12) ☐ Alteration Level 1 ☐ Alteration Level 2 ☐ Alteration Level 3 ☐ Change of Occupancy ☐ Additions ☐ Historic Building Aggregate area of building: SF Work area: SF



Form F3 – Building Code Analysis

	☐ Option 3: Performance Compliance Method (Ch. 3, 13)	☐ Option 3: Performance Compliance Method (Ch. 3, 13)
Original Building Code and Edition Applicable at the time of Construction:		
Existing Sprinkler System?	☐ YES ☐ NO	☐ YES ☐ NO
Existing Fire Alarm System?	☐ Manual ☐ Auto	☐ Manual ☐ Auto
Seismic Evaluation Required?	☐ YES ☐ NO	☐ YES ☐ NO
Change of Occupancy:	☐ YES ☐ NO Existing Occupancy Classification(s): New Occupancy Classification(s):	☐ YES ☐ NO Existing Occupancy Classification(s): New Occupancy Classification(s):
Historic Building:	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction	☐ YES ☐ NO ☐ Preservation ☐ Rehabilitation ☐ Restoration ☐ Reconstruction

SUMMARY - BUILDING DESIGN OCCUPANT LOAD					
DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5
1 st FLOOR	5				
2 nd FLOOR	3				
3 rd FLOOR					
4 th FLOOR					
TOTAL:	8	0	0	0	0

Note: Per SC Building Code Chapter 10, list individual spaces occupant load on life safety plan. **Double Click to Edit Table.**



Form F3 – Building Code Analysis

ALLOWABLE BUILDING AREA					
DESIGNATED AREAS OF BUILDING	Area 1	Area 2	Area 3	Area 4	Area 5
A_t Tabular allowable area factor (NS, S1, S13R or SM as applicable) in accordance with IBC Table 506.2 Allowable Area Increase (Equations 5-1 through 5-5, as applicable) <u>IBC Section 506.3.2 Equation 5-4 where:</u> $W = (L_1 \times w_1 + L_2 \times w_2 + L_3 \times w_3 + \dots) / F$ W = Width of public way or open space L_n Length of a portion of the exterior perimeter wall. w_n Width (≥ 20 feet) of public way or open space associated with that portion of the exterior perimeter wall. F Building perimeter that fronts on a public way or open space having a width of 20 feet or more <u>IBC Section 506.3.3 Equation 5-5 where:</u> $I_f = [F/P - 0.25] W/30$ I_f = Area factor increase factor due to frontage F Building perimeter that fronts on a public way or open space having a width of 20 feet or more. P Perimeter of entire building (feet). W Width of public way or open space in accordance with Equation 5-4	$A_t = 9000$ SF ☐ YES ☒ NO $L_n =$ $w_n =$ $W =$ $F =$ $P =$ $I_f =$	$A_t =$ SF ☐ YES ☐ NO $L_n =$ $w_n =$ $W =$ $F =$ $P =$ $I_f =$	$A_t =$ SF ☐ YES ☐ NO $L_n =$ $w_n =$ $W =$ $F =$ $P =$ $I_f =$	$A_t =$ SF ☐ YES ☐ NO $L_n =$ $w_n =$ $W =$ $F =$ $P =$ $I_f =$	$A_t =$ SF ☐ YES ☐ NO $L_n =$ $w_n =$ $W =$ $F =$ $P =$ $I_f =$



Form F3 – Building Code Analysis

Allowable building area per story in square feet as calculated by Equations 5-1 through 5-3. (Indicated equation used.) ☐ IBC Section 506.2.1 Equation 5-1 $A_a = A_t + (N_s \times I_f)$ ☐ IBC Section 506.2.3 Equation 5-2 $A_a = [A_t + (N_s \times I_f)] \times S_a$ ☐ IBC Section 506.2.4 Equation 5-3 $A_a = [A_t + (N_s \times I_f)]$ N_s Tabular allowable area factor in accordance with Table 506.2 for a non-sprinklered building (regardless of whether the building is sprinklered) S_a Actual number of building stories above grade plane, not to exceed three (3). For buildings equipped throughout with automatic sprinkler system installed in accordance with SCBC Section 903.3.1.2, use the actual number of building stories above grade plane, not to exceed four (4).	$N_s =$	$N_s =$	$N_s =$	$N_s =$	$N_s =$
	$S_a =$	$S_a =$	$S_a =$	$S_a =$	$S_a =$
	$A_a = 2$ SF	$A_a =$ SF	$A_a =$ SF	$A_a =$ SF	$A_a =$ SF
MAXIMUM AREA PER STORY	9000 SF	SF	SF	SF	SF
AREA AS DESIGNED PER STORY (Repeat for each story)	700 SF	SF	SF	SF	SF



Form F3 – Building Code Analysis

BUILDING HEIGHT							
DESIGNATED AREAS OF BUILDING	Building Code	Area 1		Area 2		Area 3	
HEIGHT	-	DESIGNED	ALLOWED	DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	Table 504.3	22'-8 1/2"	40'				
In Stories	Table 504.4	2	2				

Note: Allowable Building Height & Number of Stories Above Grade Plane

BUILDING HEIGHT					
DESIGNATED AREAS OF BUILDING	Building Code	Area 4		Area 5	
HEIGHT	-	DESIGNED	ALLOWED	DESIGNED	ALLOWED
In Feet	Table 504.3				
In Stories	Table 504.4				

Note: Allowable Building Height & Number of Stories Above Grade Plane



Form F3 – Building Code Analysis

GENERAL FIRE PROTECTION REQUIREMENTS

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
SEPARATIONS						
Fire Wall Required	Section 706	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Barrier Required	Section 707	☐ YES ☒ NO	☐ YES ☐ NO	☐ NO ☐ YES	☐ YES ☐ NO	☐ YES ☐ NO
Fire Partition Required	Section 708	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke Barriers Required	Section 709	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke Partitions Required	Section 710	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fireblocking	Section 718.2	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Draftstopping	Sections 718.3 & 718.4	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Incidental Use Area One hour fire barrier Sprinkler system plus smoke resistance	Section 509.4	☐ YES ☒ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO
ALARM & DETECTION						
<u>Fire Alarm and Detection System</u> Fire Alarm Mass Notification Emergency voice/alarm comm.	SCFC Section 907	☐ YES ☒ NO ☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO
Emergency Alarm System Required	SCFC Section 908	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
SUPPRESSION						
<u>Automatic Sprinkler System</u> Provided Required	SCFC Section 903	☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO



Form F3 – Building Code Analysis

Alternative Automatic Fire Extinguishing Kitchen Hoods Other	SCFC Section 904	☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO
Standpipes Required	SCFC Section 905	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Portable extinguishers required General Building Kitchen Labs	SCFC Section 906	☒ YES ☐ NO ☐ YES ☒ NO ☐ YES ☒ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO

OTHER FIRE AND LIFE SAFETY FEATURES

DESIGNATED AREAS OF BUILDING	Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Smoke Control System	Section 909	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Smoke & Heat Removal Required	SCFC 910	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Department Connections	Section 912	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Carbon Monoxide Detection	Section 915	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Gas Detection Systems	Section 916	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Emergency Responder Radio Coverage	Section 918	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Fire Apparatus Access and Water Line	SCFC 503 & 507	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
2-way Communication Required	Section 1009.8	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Area of Refuge (e.g. Separation, Two-Way Communication, and Instruction)	Sections 1009.6, 1009.9, 1009.10 & 1009.11	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Exterior Area for Assisted Rescue (e.g. Separation, Openness, and Instruction)	Sections 1009.7, 1009.9, 1009.10 & 1009.11	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
Safe Dispersal Area	Section 1028.5	☐ YES ☒ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
(Add others as needed)		☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO
(Add others as needed)		☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO	☐ YES ☐ NO



Form F3 – Building Code Analysis

FIRE RESISTANCE RATING OF BUILDING ELEMENTS							
DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Primary Structural Frame	As Required, Hrs	Table 601	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Bearing Walls, Exterior	As Required, Hrs	Table 601	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Bearing Walls, Interior	As Required, Hrs	Table 601	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Nonbearing Walls and Partitions, Interior	As Required, Hrs	Table 601	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						



Form F3 – Building Code Analysis

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Nonbearing Walls and Partitions, Exterior	As Required, Hrs	Table 602	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Floor Construction and associated secondary members	As Required, Hrs	Table 601	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Roof Construction and associated secondary members	As Required, Hrs	Table 601	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Walls	As Required, Hrs	Section 706	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						



Form F3 – Building Code Analysis

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Fire Barriers	As Required, Hrs	Section 707	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Fire Partitions	As Required, Hrs	Section 708	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Smoke Barriers	As Required, Hrs	Section 709	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Smoke Partitions	As Required, Hrs	Section 710	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						



Form F3 – Building Code Analysis

FIRE RESISTANCE RATING OF BUILDING ELEMENTS

DESIGNATED AREAS OF BUILDING		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
Horizontal Assemblies	As Required, Hrs	Section 711	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Shaft Enclosures	As Required, Hrs	Sections 712 & 713	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Opening & Protective Listing by Category (fire shutters, doors, etc.)	As Required, Hrs	Section 716	0				
	As Designed, Hrs		0				
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						
Others (as required by Designer)	As Required, Hrs						
	As Designed, Hrs						
	Testing Agency & Design No.(UL, FM, etc)						
	Wall/Partition Key Code						



Form F3 – Building Code Analysis

FLOOD HAZARD INFORMATION and FLOOD LOADS		
FLOOD HAZARD AREA n/a – “X” ZONE		
Base Flood Elevation (NGVD or FIRM)	n/a MSL	
Design Flood Elevation SCBC 1612.3 and ASCE 24	n/a MSL	
NON HIGH-VELOCITY WAVE ACTION		
Elevation of Lowest Proposed Floor (Meet ASCE 24 Section 2.6.2.1)	n/a MSL	
Dry flood proofing ASCE 24	☐ no ☐ yes	
HIGH-VELOCITY WAVE ACTION		
Elevation of bottom of Lowest Horizontal Structural Member of lowest floor	n/a MSL	
Flotation resistant (ASCE 24)	☐ no ☐ yes	
Breakaway wall per (ASCE 24)	☐ no ☐ yes	

FIRE SERVICE INFORMATION		
Service Line Size	n/a Inches	
Fire Department Connection	Location	n/a
Backflow	Location	
	Type	
Fire Hydrant Flow Test	Date	
	Flow	GPM
	Residual	PSI
	Static	PSI

ENERGY INFORMATION		
INSULATION		
Roof	Cavity	38 R
	Continuous	R
Walls	Cavity	19 R
	Continuous	7.6 R
Underslab		0 R
GLAZING (each type)		
Window to wall ratio	North	%
	East	%
	South	%
	West	%
Glass Type	U Factor	.7
	SHGC	.33

Summary of data from approved ASHRAE 90.1 compliance sheets.



Form F3 – Building Code Analysis

Per IBC Chapter 16 and ASCE 7 – Structural tables may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STRUCTURAL DESIGN INFORMATION, AREA							
		Building Code	Area 1	Area 2	Area 3	Area 4	Area 5
OCCUPANCY CATEGORY		Table 1604.5	-	-	-	-	-
LIVE LOAD FOR EACH CCUPANCY TYPE	Floor Live Load, F _{ll}	Figure 1608.2 or ASCE 7	100 PSF	PSF	PSF	PSF	PSF
	Roof Live Load, R _{ll}		20 PSF	PSF	PSF	PSF	PSF
	Ground Snow Load, p _g		5 PSF	PSF	PSF	PSF	PSF
MISCELLANEOUS LOADS BY SPECIAL USE AREA (ARCHITECTURAL, MECHANICAL, DATA CENTER, ETC.)		ASCE 7	PSF	PSF	PSF	PSF	PSF



Form F3 – Building Code Analysis

Form F3 – Building Code Analysis		
SOILS & SITE		
SOILS INVESTIGATION REQUIRED? (IBC 1803.2)	☒ no ☐ yes	
SOILS CLASSIFICATION	D	
Seismic Site Class (SCBC Section 1613.3.2)	D	
Classes Soil of Materials (UCS System) (SCBC 1803.5.1)		
Allowable Footing Bearing Pressure	2000 psf	
MINIMUM DESIGN SOIL BEARING LOAD (SCBC Table 1806.2)	1500 psf	
COMPACTION		
Subgrade (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	95 %	
Base (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	95 %	
Other (ASTM D698, ASTM D1557) or (AASHTO only for paving & roads)	95 %	
MINIMUM DESIGN SOIL LATERAL LOAD (SCBC 1610.1)	1000 psf	
FOOTINGS		
Undisturbed footings	☐ no ☒ yes	
Compacted Fill Material (SCBC Section 1804.6)	☐ no ☒ yes	
ELEVATIONS		
Elevation of Water Table	± 98' MSL	
Elevation of lowest footing	± 101' MSL	
Elevation of lowest floor or basement	± 102.5' MSL	
STRUCTURAL DESIGN INFORMATION, BUILDING		
WIND LOADS	Analysis Procedure (ASCE 7 or SCBC 1609.6) Basic design Wind Speed, MPH (3 sec gust IBC Fig 1609.3) Exposure Category Wind Importance Factor (ASCE 7 Table 1.5-2) Internal Pressure Coefficient (ASCE 7) External Pressure Coefficient (ASCE 7)	150 = V 1 = I _w 0.18 = GC _{pi} .7 = GC _p
SEISMIC LOADS/Earthquake	Seismic Importance Factor (ASCE 7) Site Class (SCBC Section 1613.3.2) Mapped Spectral Response Accelerations Design Spectral Response Acceleration Parameters Seismic Use Group (ASCE 7 and Seismic Occupancy Category IBC) Seismic Design Category SCBC Tables 1613.3.5(1) & 1613.3.5(2) Basic Seismic Force Resisting System Design Base Shear Seismic Response Coefficient(s) ASCE 7 Response Modification Factor(s) ASCE 7 Analysis Procedure	11 = I 1.8 = S _s 0.56 = S ₁ 1.48 = S _{DS} 0.64 = S _{D1} II D2 12 KIPS 0.29 = C _s 5 = R STATIC



Form F3 – Building Code Analysis

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections. The Special Inspection requirements shall be based on Section 1704 & Section 1705 of the 2018 South Carolina Building Code. Any deviations from the requirements of Section 1704 and/or Section 1705 must be approved by OSF. Per SCBC Chapter 16 and ASCE 7 – This information may be shown on initial Structural Sheet of the drawings or on Sheet with other code information. List floor design loads on structural plans.

STATEMENT OF SPECIAL INSPECTIONS				
MATERIAL	TYPE OF INSPECTION	FREQUENCY	SPECIFICATION REFERENCE	INSPECTION BY
CONCRETE MIX DESIGN				Engineer of record
Concrete test cylinders				
Foundation Reinforcing				
Wall sheathing				Independent testing agency
Roof sheathing				Independent testing agency
Uplift hardware				Independent testing agency



Form F3 – Building Code Analysis

Provide a table for each structure.

PLUMBING INFORMATION		
<u>WATER SYSTEM</u>		
Service Line Size	1 Inches	
Distribution Design Criteria (SCPC Table 604.3)	38 Fixture Units	
Maximum Flow Rate (SCPC Table 604.4)	9.5 GPM	
Backflow	Location	At entry
	Type	
Test Pressure	psi	
<u>SANITARY SEWER SYSTEM</u>		
Service Line Size	3 Inches	
Drainage Design Criteria (SCPC Tables 709.1 and 709.2)	25 Fixture Units	
Maximum Flow Rate	12.5 GPD	
Slope (SCPC Table 704.1)	1/8 Inches/Ft	

SUMMARY OF FIXTURES (SCPC Section 403 & Table 403.1)		
Water Closets	Male-Required	Per Architect
	Male WC -Provided	1
	Male Urinal -Provided	1
	Female-Required	Per Architect
	Female-Provided	1
Lavatories	Male-Required	Per Architect
	Male-Provided	2
	Female-Required	Per Architect
	Female-Provided	2
Showers	Male-Provided	0
	Female-Provided	0
Drinking Fountains	Required	
	Provided	0
Family or Assisted- Use Toilet	Required	
	Provided	0
Service Sink	Required	
	Provided	1
Others (list) 2 Compartment Sink	Required	
	Provided	1



Form F3 – Building Code Analysis

Summary of data from approved ASHRAE 90.1 compliance sheets.

MECHANICAL INFORMATION		
GENERAL INFORMATION		
Building Location		
Climate Zone		
Outdoor Design Temperature	Summer	deg F DB
		deg F WB
	Winter	deg F DB
		deg F WB
Indoor Design Temperature	Summer	deg F DB
		% RH
	Winter	deg F DB
		% RH
OUTSIDE AIR via 3 exterior doors surpasses required		
Occupied Minimum Outside Air	5 cfm per person	
CO2 Demand Management	☒ no ☐ yes	
Supervised Control System	☒ no ☐ yes	
MECHANICAL SYSTEMS, SERVICE SYSTEMS & EQUIPMENT		
Briefly describe mechanical system:		
None for the rest rooms Mini Splits for concessions and booth. 1 4 ton unit with 2 remote heads		

ELECTRICAL INFORMATION

SERVICE TRANSFORMER	☒ By Utility	
	☐ By District	KVA Primary Voltage/Phase
ELECTRICAL SERVICE INFORMATION		
Service Voltage/Phase	120/240/1 Phase	200 Amperes
Service Entrance Conductors Size	3/0	1 Qty per Phase
Total Connected Load		24.7 KVA
Estimated Maximum Demand		24.7 KVA
Available Fault Current in Symmetrical Amperes		Per Utility
Interrupting Capacity of Service Overcurrent Device		200A
Grounding electrode system components (NEC 250)		As required
EMERGENCY SERVICE INFORMATION		
Emergency Generator	☒ no ☐ yes	KVA Voltage/Phase
	Fuel	
Exit/Emergency Lights Backup Power		☒ Integral Battery ☐ Generator
Fire Alarm System	☐ Manual ☐ Automatic	☐ Addressable ☐ Class A ☐ Class B
	LIGHTNING PROTECTION PROVIDED ☒ no ☐ yes	



Form F3 – Building Code Analysis

Occupancy Load and Fixture Count Worksheet

(Provide this table for new construction and addition/renovations with multiple occupancies.)

(Provide this table for new construction and addition/renovations with multiple occupancies.)

[illegible]



Form F3 – Building Code Analysis

Note: Expand as Needed. **Double Click to Edit & Change.**