BOBBY ALFORD PAVILION PROJECT # 1222

CITY OF GEORGETOWN SC

310 GREENWICH DRIVE
GEORGETOWN, SC 29442

PROJECT FUNDED BY CDBG GRANT #CV1-019

ARCHITECTS / ENGINEERS / CONSULTANTS:

ARCHITECT:
ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
(843) 577-6073

STRUCTURAL ENGINEER:
ADC ENGINEERING INC.
1226 YEAMANS HALL RD
HANAHAN, SC 29410
(843) 566-0161

MEP ENGINEER:
CONSTANTINE ENGINEERING ASSOCIATES, LLC
1350 ASHLEY RIVER RD, SUITE 400
CHARLESTON, SC 29407
(843) 628-7878

LIST OF DRAWINGS

APPLICABLE CODES

APPLICABLE CODES:

- 2018 INTERNATIONAL BUILDING CODE
- 2018 INTERNATIONAL EXISTING BUILDING CODE - ALTERATION LEVEL 2
- 2018 INTERNATIONAL MECHANICAL CODE
- 2018 INTERNATIONAL PLUMBING CODE
- 2018 INTERNATIONAL FIRE CODE
- 2009 INTERNATIONAL ENERGY CONSERVATION - CODE
- NATIONAL ELECTRIC CODE, 2017 EDITION
- ANSI A117.1, 2017
- NFPA 101 LIFE SAFETY CODE®

CODE SUMMARY

SITE DEVELOPMENT:
1.1. TOTAL AREA OF PROJECT SITE (IN ACRES): 1.9 ACRES
EXISTING PROPERTY AREA: 1.9 ACRES
A. TOTAL AREA OF PROJECT SITE THAT WILL BE DEVELOPED: < 1 ACRE
B. MUNICIPALITY AND/OR COUNTY WHERE PROJECT IS LOCATED: CITY OF GEORGETOWN
C. JURISDICTION FOR:
FIRE DEPARTMENT: GEORGETOWN CITY FIRE DEPARTMENT
WATER: GEORGETOWN WATER UTILITIES DEPT
SEWER: GEORGETOWN WATER UTILITIES DEPT
ELECTRICITY: GEORGETOWN ELECTRICAL UTILITY DEPT
ZONING: GEORGETOWN COUNTY ZONING DIVISION

1.2. IS PROJECT IN FLOOD PLAIN: YES
FLOOD MAP INFORMATION: 450087 0002 D, PANEL 2 OF 3
FLOOD ZONE: **ZONE "AE" (EL 10)**
BUILDING LOWEST FLOOR ELEVATION: **6.7' MSL**

BUILDING IS DESIGNED WITH WET FLOODPROOFING, INCLUDING THE FOLLOWING:
- CLASS 4 & 5 FLOOD RESISTANT MATERIALS BELOW BFE + 2 FEET FREEBOARD
- FLOOD VENTS IN WALLS AT TOILET ROOMS
- MECHANICAL AND ELECTRICAL SYSTEMS ARE RAISED ABOVE BFE + 2'
- SANITARY LINE HAS SHUTOFF VALVE TO PREVENT BACKFLOW

1.3. IS PROJECT IN WETLANDS AREA: NO

2. GENERAL BUILDING DESIGN: OPEN AIR PUBLIC PAVILION WITH TOILET ROOMS = 7,300 GSF

3. OCCUPANCY CLASSIFICATIONS: ASSEMBLY A-2 BASED ON PRIMARY USE AS OPEN AIR PICNIC PAVILION

4. TYPE OF NEW CONSTRUCTION:
A. CONSTRUCTION CLASSIFICATION: **IV**
B. IS THE BUILDING CONSTRUCTION PROTECTED OR UNPROTECTED: **UNPROTECTED**
C. IS THE BUILDING CONSTRUCTION COMBUSTIBLE OR NONCOMBUSTIBLE: COMBUSTIBLE
D. IS THE BUILDING PROVIDED WITH A FIRE PROTECTION SPRINKLER SYSTEM? NO

5. ALLOWABLE AREA FACTOR - TABLE 506.2
ASSEMBLY A-2 OCCUPANCY - TYPE IV CONSTRUCTION ALLOWABLE AREA = 15,000 SF [COMPLIANT]
ACTUAL AREA = 7,300 GSF

6. OCCUPANT LOAD - TABLE 1004.5:
ASSEMBLY - UNCONCENTRATED (TABLES & CHAIRS) - 15 SF NET
6,742 NET SF / 15 SF = OCCUPANT LOAD OF 450 PERSONS

7. NUMBER OF REQUIRED ACCESSIBLE ENTRIES AND MEANS OF EGRESS: **2 ENTRIES, 2 ACCESSIBLE MEANS OF EGRESS**

8. FLOOD LOADS: ELEVATION OF LOWEST PROPOSED FLOOR: **6.7' MSL**
(2) SMART VENTS PROVIDED IN EACH TOILET ROOMS ON OPPOSING WALLS - TOTAL OF (4) SMART VENTS

9. FIRE RESISTANCE RATINGS:
EXTERIOR WALLS: 0 HR
INTERIOR WALLS: 0 HR
FLOOR CONSTRUCTION: 0 HR
ROOF CONSTRUCTION: 0

10. OTHER FIRE PROTECTION REQUIREMENTS:
SPRINKLER SYSTEM: NONE

11. STRUCTURAL DESIGN INFORMATION:
A. FLOOR LIVE LOAD:
GROUND FLOOR STORAGE: 125-PSF
GROUND FLOOR RESTROOMS: 100-PSF
B. ROOF LIVE LOAD: 20 PSF
C. GROUND SNOW LOAD: 5 PSF
D. WIND LOADS:
BASIC WIND SPEED, V = 147 MPH, 3 SECOND GUST WIND SPEED
WIND IMPORTANCE FACTOR, (I) = 1.0
BUILDING CATEGORY: CATEGORY "II"
WIND EXPOSURE: EXPOSURE "D"

E. SEISMIC LOADS:
SEISMIC IMPORTANCE FACTOR, Ie=1.0
SEISMIC USE GROUP: II
SITE CLASS: "D" (DEFAULT)
SPECTRAL RESPONSE COEFFICIENT: Sds = 0.449 g Sd1 = 0.239 g
SEISMIC DESIGN CATEGORY: CATEGORY "D"
SEISMIC DESIGN FORCE RESISTING SYSTEM: INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR (.7E): 33.8 KIPS
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (ELF)

CODE SUMMARY - (Continued)

12. PLUMBING INFORMATION
A. WATER SYSTEM: FIXTURE UNITS: 26 PEAK GPM: 6 GPM SERVICE LINE SIZE: 3/4"
B. SANITARY SEWER SYSTEM LOADING: 28
C. SERVICE LINE SIZE: 4"
D. MINIMUM NUMBER OF PLUMBING FIXTURES: -TABLE 2902.1
CLOSEST CATEGORY IN TABLE IS: RESTAURANTS, BANQUET HALLS AND FOOD COURTS :
WATER CLOSETS, MALE - 1 per 75 225 PERSONS / 75 = **(3) WC REQUIRED, (3) PROVIDED**
WATER CLOSETS, FEMALE - 1 per 75 225 PERSONS / 75 = **(3) WC REQUIRED, (3) PROVIDED**
LAVATORIES, 1 per 200 FOR BOTH MALE & FEMALE 225 PERSONS /200 = **1.125 LAVS = (2) LAVS (ROUNDED UP) REQUIRED, (1) PROVIDED**
DRINKING FOUNTAINS: 1 PER 500 PERSONS 450 PERSONS / 500 = 0.9 = (**1) DF REQUIRED, 1 PROVIDED (BOTTLE FILLER)**
SERVICE SINK: **(1) REQUIRED. (1) PROVIDED]**

BASE BID

SELECTIVE DEMOLITION OF EXISTING BUILDING AS NOTED, INCLUDING CMU WALLS, ROOF PANELS, STEEL ROOF PURLINS, INTERIOR WOOD STUD WALL AND FLOOR FRAMING, EXISTING FLOOR, WALL, AND CEILING FINISHES, EXISTING EXTERIOR CONCRETE RAMP AND PAVING, PLUMBING FIXTURES, ELECTRICAL SYSTEMS AND LIGHT FIXTURES.

RENOVATION / REPAIR, PAINTING OF EXISTING STEEL PORTAL FRAMES. CONSTRUCT NEW BRICK / CMU PIERS AT EACH PORTAL FRAME. INSTALL NEW METAL PANEL ROOF ON NEW STEEL ROOF PURLINS. CONSTRUCT NEW TOILET ROOMS, BBQ GRILL AREA, INSTALL NEW HVAC SYSTEM AT TOILET ROOMS, NEW ELECTRICAL SYSTEM AND LIGHTING, CONSTRUCT NEW RAMPS AT EITHER END OF BUILDNG, NEW CONCRETE PAVING AT PARKING SPACES.

BID ALTERNATES

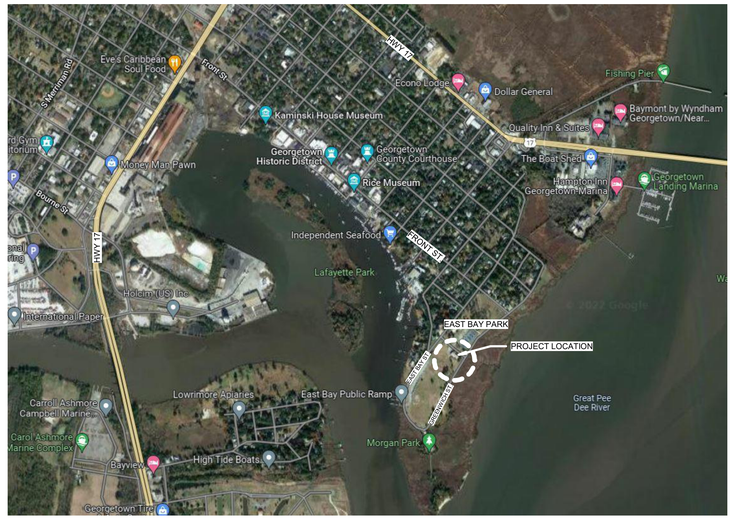
ALTERNATE #1: CONSTRUCT FIREPLACE AND CHIMNEY PER DRAWINGS ON SHEET A501.

ALTERNATE #2: APPLY STUCCO WITH METAL LATH ON CMU WALL TYPES 2A & 3A IN LIEU OF PAINTING WALL.

ALTERNATE #3: INSTALL (1) OVERHEAD CEILING FAN AS SHOWN ON ARCH & ELECTRICAL DRAWINGS.
A. BASE BID: INCLUDE POWER AND JUNCTION BOX ONLY FOR FUTURE FAN INSTALLATION.
B. ALTERNATE: PROVIDE FAN AS INDICATED ON DRAWINGS INCLUDING SEISMIC BRACING AS REQUIRED.

ALTERNATE #4: DELETE CONSTRUCTION OF NEW BRICK / CMU PIERS FROM SCOPE OF WORK. INCLUDING METAL COPING AND FLASHING AT TOP OF PIERS. EXPOSED PORTAL FRAMES TO BE CLEANED AND PAINTED.

LOCATION MAP



NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

TITLE SHEET, CODE SUMMARY

SHEET NAME

PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	
DATE	12/19/2022
SCALE	

T100

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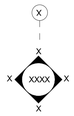
ABBREVIATIONS

AB	Anchor Bolt
A/C	Air Conditioned
APC	Acoustical Panel Ceiling
ACE	Air Conditioning Unit
AD	Access Door
ADJ	Adjustable
AHJ	Air Handler Unit
ALUM	Aluminum
AP	Access Panel
AS	Aluminum Storefront
AFF	Above Finish Floor
BIT	Bitumen
CA	Compressed Air
CAB	Cabinet
CB	Chalk Board
CCT	Cubicle Curtain Track
CI	Cast Iron
CG	Corner Guard
CJ	Control Joint
CL	Center Line
CLG	Ceiling
CMU	Concrete Masonry Unit
COL	Column
COMP	Compressor
CONC	Concrete
CONT	Continuous
CONST	Construction
CPT	Carpet
CT	Ceramic Tile
CTR	Counter
CO	Clean Out
CW	Cold Water
CWP	Concrete Wall Panel
CBB	Computer Backboard
DF	Drinking Fountain
DIA	Diameter
DIAG	Diagonal
DISP	Dispenser
DS	Downspout
DWGS	Drawings
EL	Elevation
ELEC	Electrical
ELEV	Elevator
EJ	Expansion Joint
EP	Electric Panel
EQUIP	Equipment
ETV	Educational Television
EBB	ETV Backboard
EXT'G	Existing
EXT	Exterior
EWC	Electric Water Cooler
EXP	Exposed, Expansion
FCO	Floor Clean Out
FD	Floor Drain
FDC	Fire Department Connection
FE	Fire Extinguisher
FEC	Fire Extinguisher & Cabinet
FFE	Finish Floor Elevation
FIN	Finish
FL	Floor
FT	Foot, Feet
FTG	Footing
FS	Fire Sealant
G	Gas
GA	Gauge
GB	Grab Bar
GL	Glass
GR	Grade
GWB	Gypsum Wall Board
GYP	Gypsum
HB	Hose Bibb
HC, H/C	Handicapped
HDW	Hardware
HM	Hollow Metal
HP	High Point
HR	Hour
HTG	Heating
HW	Hot Water
HP	Horsepower
Hz	Hertz (Cycles)
IN	Inch, Inches
INSUL	Insulation
INT	Interior
JT	Joint
KIT	Kitchen
KP	Kick Plate
LAV	Lavatory
LKR	Locker
LP	Low Point
LPD	Light Proof Door
MAX	Maximum
MB	Marker Board
MECH	Mechanical
MES	Metal Edge Strip
MIN	Minimum
MISC	Miscellaneous
MLDG	Moulding
MO	Masonry Opening
MOD	Modified
MSL	Mean Sea Level
MT	Metal Threshold
MTD	Mounted
MWP	Metal Wall Panel
NIC	Not in Contract
OBS	Obscure
OC	On Center
OH	Overhead
OPNG	Opening
OPP	Opposite
OFD	Overflow Drain
P	Paint
PART HT	Partition Height
PB	Pegboard
PROP	Property Line
PL	Plate
PLAS	Plaster
PLWD	Plywood
PSB	Pencil Sharpener Block
PH	Phase
PT	Preservative Treated
POLYCARB	Polycarbonate
PF	Prefinished
QT	Quarry Tile
R	Riser
RCP	Reflected Ceiling Plan
RD	Roof Drain
RECEP	Receptacle
REF	Refrigerator
REINF	Reinforcing, Reinforced
REQ'D	Required
RM	Room
RO	Rough Opening
S	Stain
SB	Sign Block
SCHD	Schedule
SEC	Section
SF	Square Feet
SH	Shelving, Shelf
SIM	Similar
SPECS	Specification
SS	Sanitary Sewer
STC	Sound Transmission Coefficient
STOR	Storage
STRUCT	Structural
S/S, SS	Stainless Steel
ST	Storm Sewer
SAT	Suspended Acoustic Ceiling
T	Tread
TB	Tack Board
TCA	Tile Council of America
TBB	Telephone Backboard
TYP	Typical
TEL	Telephone
TERR	Terrazzo
TOIL, T	Toilet
TS	Tackstrip
UL	Underwriters Laboratories
UNO	Unless Noted Otherwise
V	Vinyl, Volts
VCT	Vinyl Composition Tile
VEST	Vestibule
VTR	Vent Thru Roof
WC	Water Closet
WCO	Wall Clean-Out
WD	Wood
WH	Waterheater
WP	Waterproof(ing)
WP	Working Point
WS	Weatherstrip

SYMBOLS: (SEE C, S, P, M & E SHEETS FOR ADDITIONAL SYMBOLS)

DETAIL IDENTIFICATION
SHEET COORDINATE LOCATION
SHEET NUMBER

SPACE IDENTIFICATION
ROOM NAME
ROOM NUMBER



STRUCTURAL GRID LINE

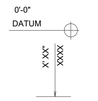
INTERIOR ELEVATION
DETAIL NUMBER
SHEET NUMBER

DOOR NUMBER

WALL TYPE IDENTIFICATION

WINDOW TYPE IDENTIFICATION

DOOR & WINDOW DETAIL IDENTIFICATION



DATUM ELEVATION

BUILDING ELEVATION

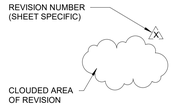
BATT INSULATION

RIGID INSULATION

CMU WALL

STEEL STUD & GWB WALL- SEE WALL TYPES

NEW CONCRETE



REVISION MARK

SUPPLY AIR DIFFUSER
SEE 'M' SHEETS

RETURN AIR GRILL
SEE 'M' SHEETS

INCANDESCENT LIGHT FIXTURE
SEE 'E' SHEETS

EXIT SIGN
SEE 'E' SHEETS

EXHAUST FANS
SEE 'M' & 'E' SHEETS

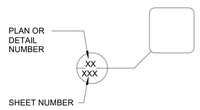
GWB CEILING & SOFFIT

APC SYSTEM (ACOUSTICAL PANEL CEILING)

1 HOUR RATED WALL

2 HOUR RATED WALL

3 HOUR RATED WALL



CALLOUT OF DETAIL

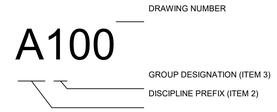
SPEAKER

WORKING DRAWINGS ORGANIZATION SYSTEM (ConDoc)

THE ConDoc SYSTEM:

1. A BASIC PRINCIPAL OF ConDoc IS TO SIMPLIFY THE PROCESS OF PRODUCING WORKING DRAWINGS, WITHOUT ANY COMPROMISE OF QUALITY OR CONTENT OF THE DOCUMENTS. THE USE OF KEYNOTE SYMBOLS ON THE DRAWINGS, WHICH CROSS-REFERENCE TO NOTES IN LEGENDS (ON THE DRAWINGS) IS AN ESSENTIAL ELEMENT OF THE METHODOLOGY. THESE KEYNOTE SYMBOLS ALLOW FOR TEXT REDUCTION AND SERVE THE FURTHER PURPOSE OF LINKING INFORMATION ON THE DRAWINGS WITH THAT CONTAINED IN THE SPECIFICATIONS THROUGH THE USE OF A NUMBERING SYSTEM WHICH IS COMMON TO BOTH THE DRAWINGS AND THE SPECIFICATIONS.
2. THE ORGANIZATION OF THE KEYNOTING SYSTEM ON THE DRAWINGS, WITH THE KEYNOTE REFERENCE NUMBERS RELATED TO THE SPECIFICATIONS SECTIONS NUMBERING SYSTEM, SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG THE SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.
3. USING THE ConDoc SYSTEM, "MATERIALS KEYING LEGEND" NOTES ARE NOT REPEATED ON CONSECUTIVE DETAILS ON THE SAME SHEET. DIFFERENCES AND NEW MATERIALS ARE NOTED AS NECESSARY
4. FOR THIS PROJECT, ONLY THE "A" SHEETS CONFORM TO THE ConDoc SYSTEM MATERIAL KEYING LEGEND.

1. ALPHA-NUMERIC SYSTEM CODE



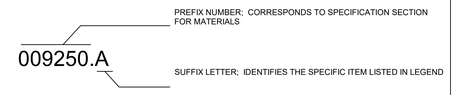
2. BASIC DISCIPLINE IDENTIFICATION

DISCIPLINE PREFIX	DISCIPLINE	DISCIPLINE PREFIX	DISCIPLINE
T	INFORMATION	M	MECHANICAL
C	CIVIL	E	ELECTRICAL
D	DEMOLITION	FP	FIRE PROTECTION
A	ARCHITECTURAL	K	KITCHEN
S	STRUCTURAL	R	ROOF
P	PLUMBING	LS	LIFE SAFETY

3. DRAWING GROUPS IDENTIFICATION ('A' DRAWINGS)

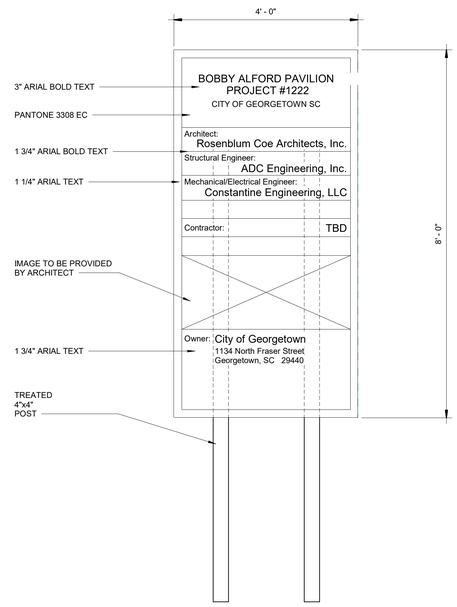
A000, A001, ETC. GENERAL
A100, A101, ETC. PLANS
A200, A201, ETC. EXTERIOR ELEVATIONS
A300, A301, ETC. BUILDING AND WALL SECTIONS
A400, A401, ETC. INTERIOR ELEVATIONS
A500, A501, ETC. DETAILS
A600, A601, ETC. SCHEDULE AND DIAGRAMS

4. MATERIALS KEYING



MATERIALS (SEE DRAWINGS AND SPECIFICATIONS FOR SPECIAL MATERIALS)

CONSTRUCTION SIGN



F5 / T101 CONSTRUCTION SIGN
SCALE: 3/4" = 1'-0"

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD
PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

ABBREVIATIONS, LEGEND, & CONDOC

SHEET NAME

PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	As indicated

T101

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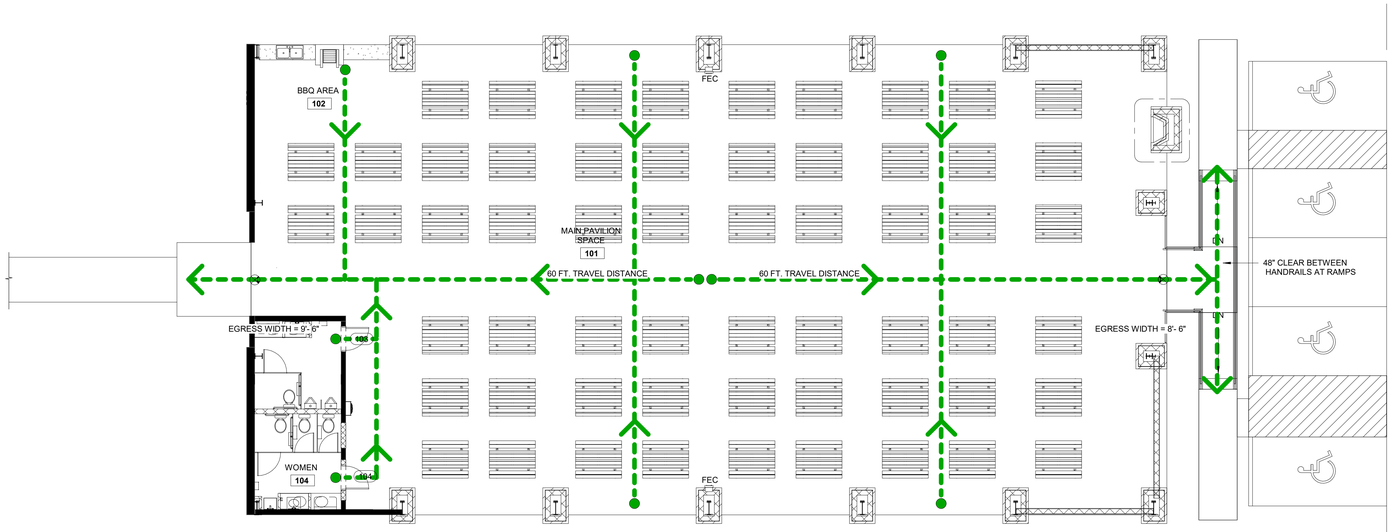

1 T102 LIFE SAFETY PLAN
SCALE: 1/8" = 1'-0"

LIFE SAFETY PLAN LEGEND

EGRESS WIDTH
- CAPACITY = 225 PERSONS AT EACH OF (2) EXITS
- REQ'D = 0.2 X 225 = 45" AT EACH EXIT
- ACTUAL = EXIT 1: 115", EXIT 2: 102", WITH CLEAR SPACE BETWEEN RAMP HANDRAILS OF 48"

PATH OF EGRESS TRAVEL

450 OCCUPANT LOAD

SMOKE RATED ASSEMBLY

1HR FIRE RATED ASSEMBLY

2HR FIRE RATED ASSEMBLY

3HR FIRE RATED ASSEMBLY

EXIT SIGN

FE FIRE EXTINGUISHER

FEC FIRE EXTINGUISHER CABINET

STATE OF SOUTH CAROLINA
ROSENBLUM COE ARCHITECTS, INC.
CHARLESTON
B-7/0022
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
STEVEN HARLEY COE
REG. NO. 5573
REGISTERED ARCHITECT

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

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1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

LIFE SAFETY PLAN

SHEET NAME

PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	As indicated

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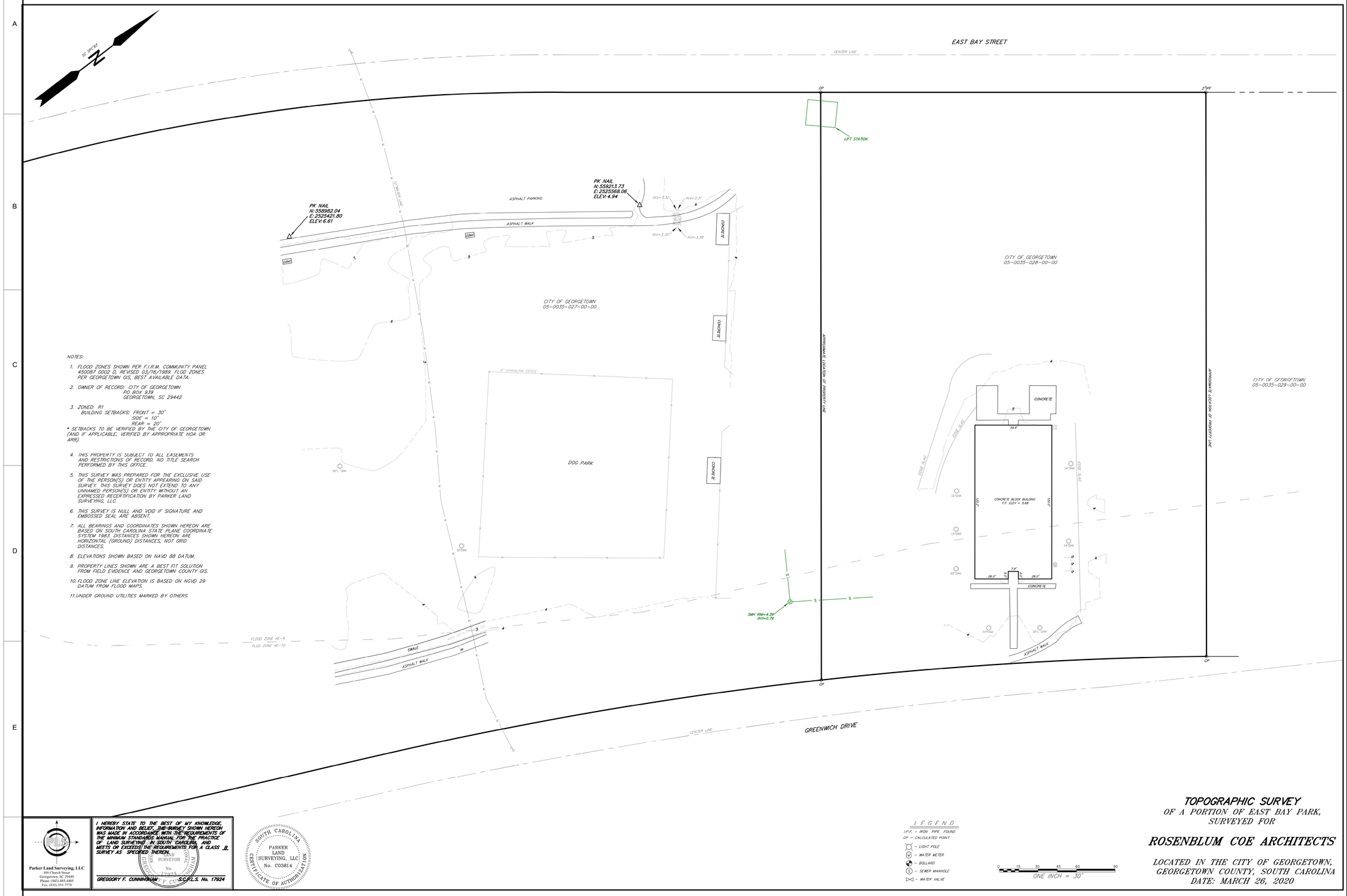


NOTES:

1. FLOOD ZONES SHOWN PER F.I.R.M. COMMUNITY PANEL 450087 0002 D, REVISED 03/16/1989. FLOD ZONES PER GEORGETOWN GIS, BEST AVAILABLE DATA.
2. OWNER OF RECORD: CITY OF GEORGETOWN
   PO BOX 939
   GEORGETOWN, SC 29442
3. ZONED: R1
   BUILDING SETBACKS: FRONT = 30'
   SIDE = 10'
   REAR = 20'
   * SETBACKS TO BE VERIFIED BY THE CITY OF GEORGETOWN (AND IF APPLICABLE, VERIFIED BY APPROPRIATE HOA OR ARB).
4. THIS PROPERTY IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD. NO TITLE SEARCH PERFORMED BY THIS OFFICE.
5. THIS SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF THE PERSON(S) OR ENTITY APPEARING ON SAID SURVEY. THIS SURVEY DOES NOT EXTEND TO ANY UNNAMED PERSON(S) OR ENTITY WITHOUT AN EXPRESSED RECERTIFICATION BY PARKER LAND SURVEYING, LLC.
6. THIS SURVEY IS NULL AND VOID IF SIGNATURE AND EMBOSSED SEAL ARE ABSENT.
7. ALL BEARINGS AND COORDINATES SHOWN HEREON ARE BASED ON SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM 1983. DISTANCES SHOWN HEREON ARE HORIZONTAL (GROUND) DISTANCES, NOT GRID DISTANCES.
8. ELEVATIONS SHOWN BASED ON NAVD 88 DATUM.
9. PROPERTY LINES SHOWN ARE A BEST FIT SOLUTION FROM FIELD EVIDENCE AND GEORGETOWN COUNTY GIS.
10. FLOOD ZONE LINE ELEVATION IS BASED ON NGVD 29 DATUM FROM FLOOD MAPS.
11. UNDER GROUND UTILITIES MARKED BY OTHERS.

Parker Land Surveying, LLC
400 Church Street
Georgetown, SC 29440
Phone: (843) 485-4405
Fax: (843) 544-7779

I HEREBY STATE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND MEETS OR EXCEEDS THE REQUIREMENTS FOR A CLASS B SURVEY AS SPECIFIED THEREIN.

GREGORY F. CUNNINGHAM S.C.R.L.S. No. 17924

PARKER LAND SURVEYING, LLC No. C03814 CERTIFICATE OF AUTHORIZATION

LEGEND
I.P.F. – IRON PIPE FOUND
CP – CALCULATED POINT
– LIGHT POLE
– WATER METER
– BOLLARD
– SEWER MANHOLE
– WATER VALVE

ONE INCH = 30'

TOPOGRAPHIC SURVEY
OF A PORTION OF EAST BAY PARK,
SURVEYED FOR

ROSENBLUM COE ARCHITECTS

LOCATED IN THE CITY OF GEORGETOWN,
GEORGETOWN COUNTY, SOUTH CAROLINA
DATE: MARCH 26, 2020

SEALS

NOTES:

REVISIONS

CONSTR. DOCUMENTS

BOBBY ALFORD
PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

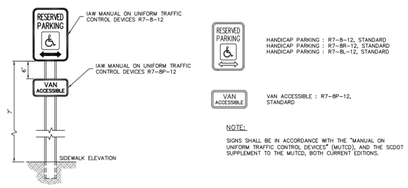
SURVEY - EXISTING CONDITIONS

SHEET NAME

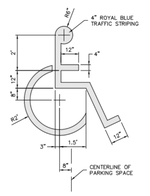
PROJECT NUMBER 22020
DRAWN BY Author
CHECKED BY Approver
DATE 12/19/2022
SCALE

C100

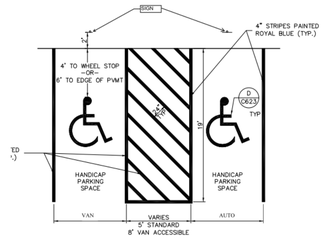
12/20/2022 12:56:35 PM



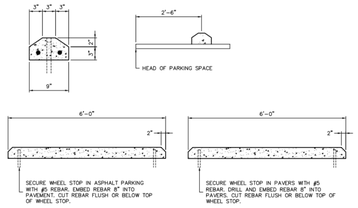
A ACCESSIBLE PARKING SIGN
NOT TO SCALE



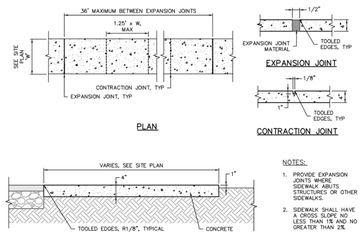
D INTERNATIONAL SYMBOL OF ACCESSIBILITY
NOT TO SCALE



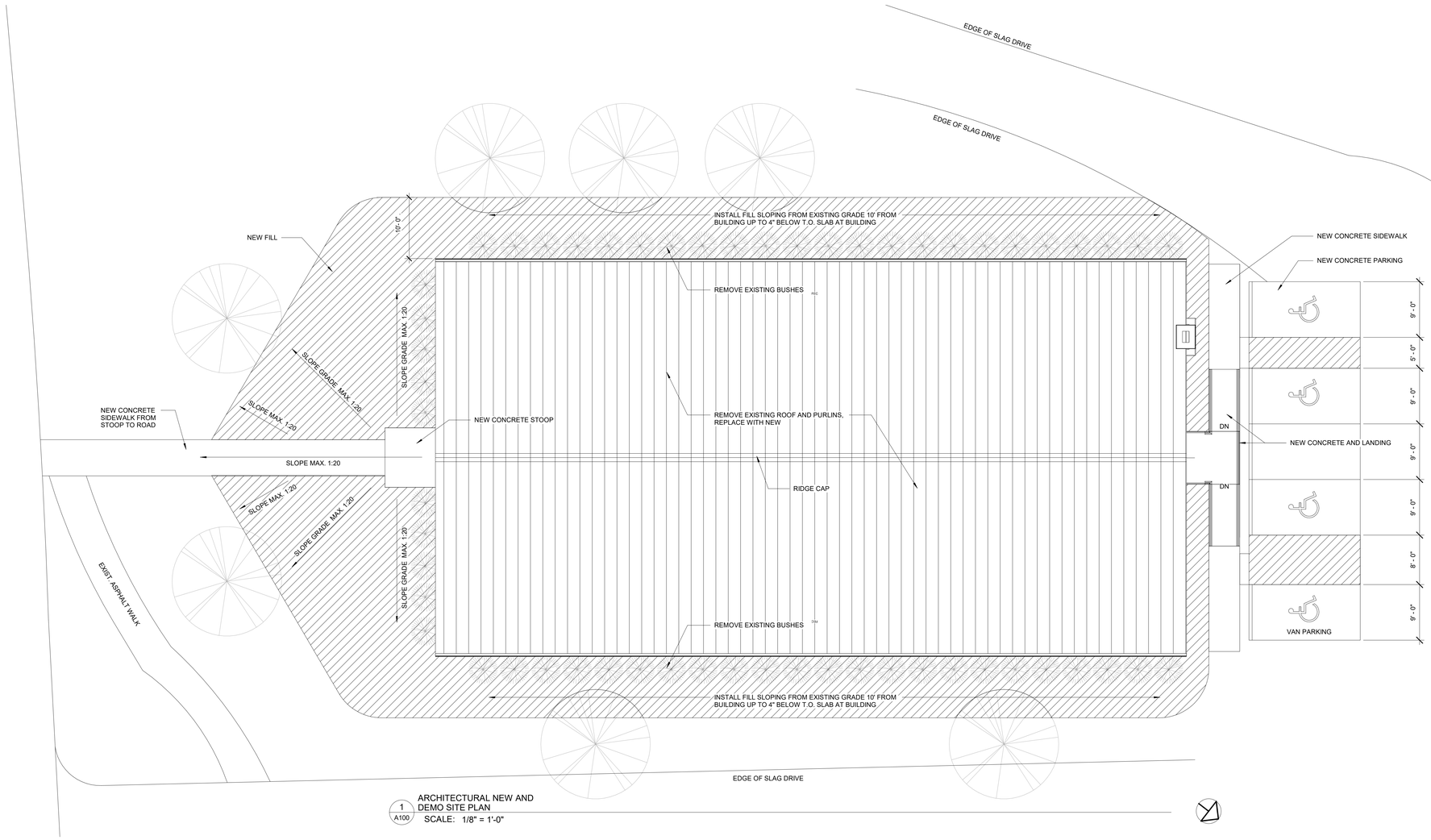
C HANDICAP PARKING DETAIL
NOT TO SCALE



A CONCRETE WHEEL STOP DETAIL
NOT TO SCALE



B SIDEWALK DETAIL
NOT TO SCALE



1 A100 ARCHITECTURAL NEW AND DEMO SITE PLAN
SCALE: 1/8" = 1'-0"

SEALS

STATE OF SOUTH CAROLINA — ROSENBLUM COE ARCHITECTS, INC. CHARLESTON B-70022 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — STEVEN HARLEY COE — REG. NO. 5573 — REGISTERED ARCHITECT

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS	

BOBBY ALFORD PAVILION PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

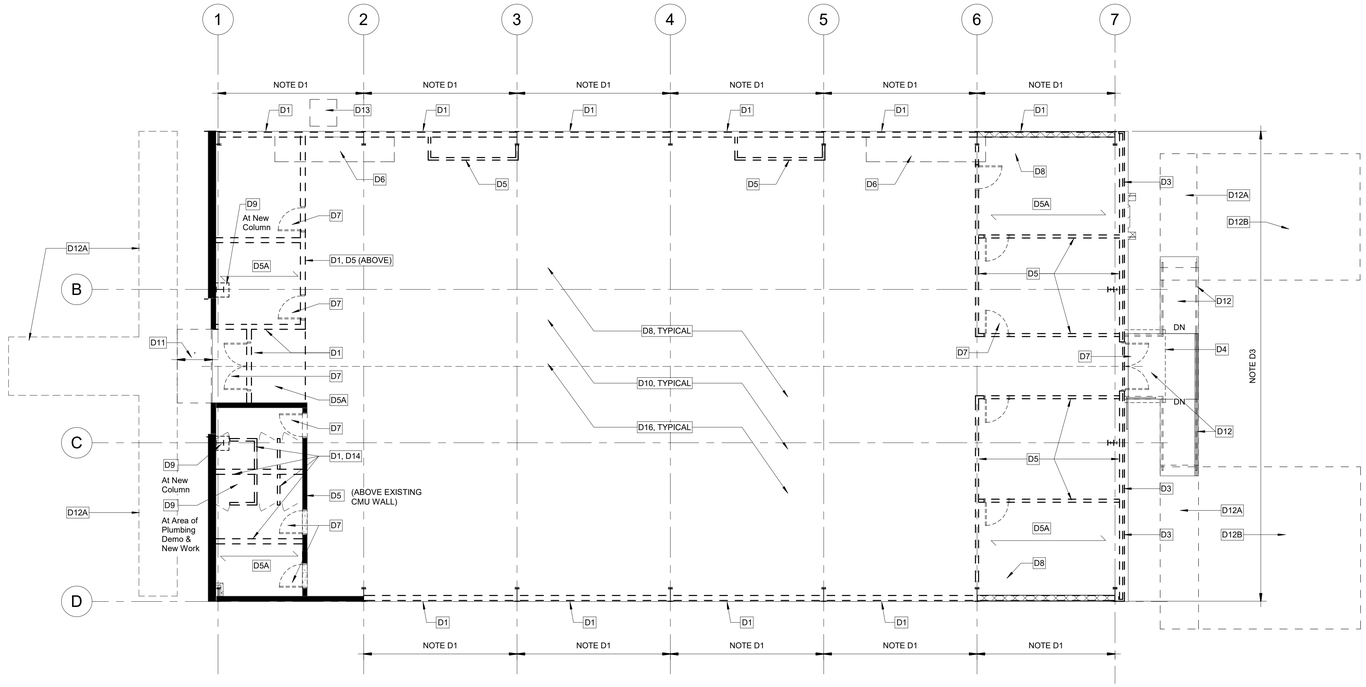
ARCHITECTURAL NEW AND DEMO SITE PLAN

SHEET NAME

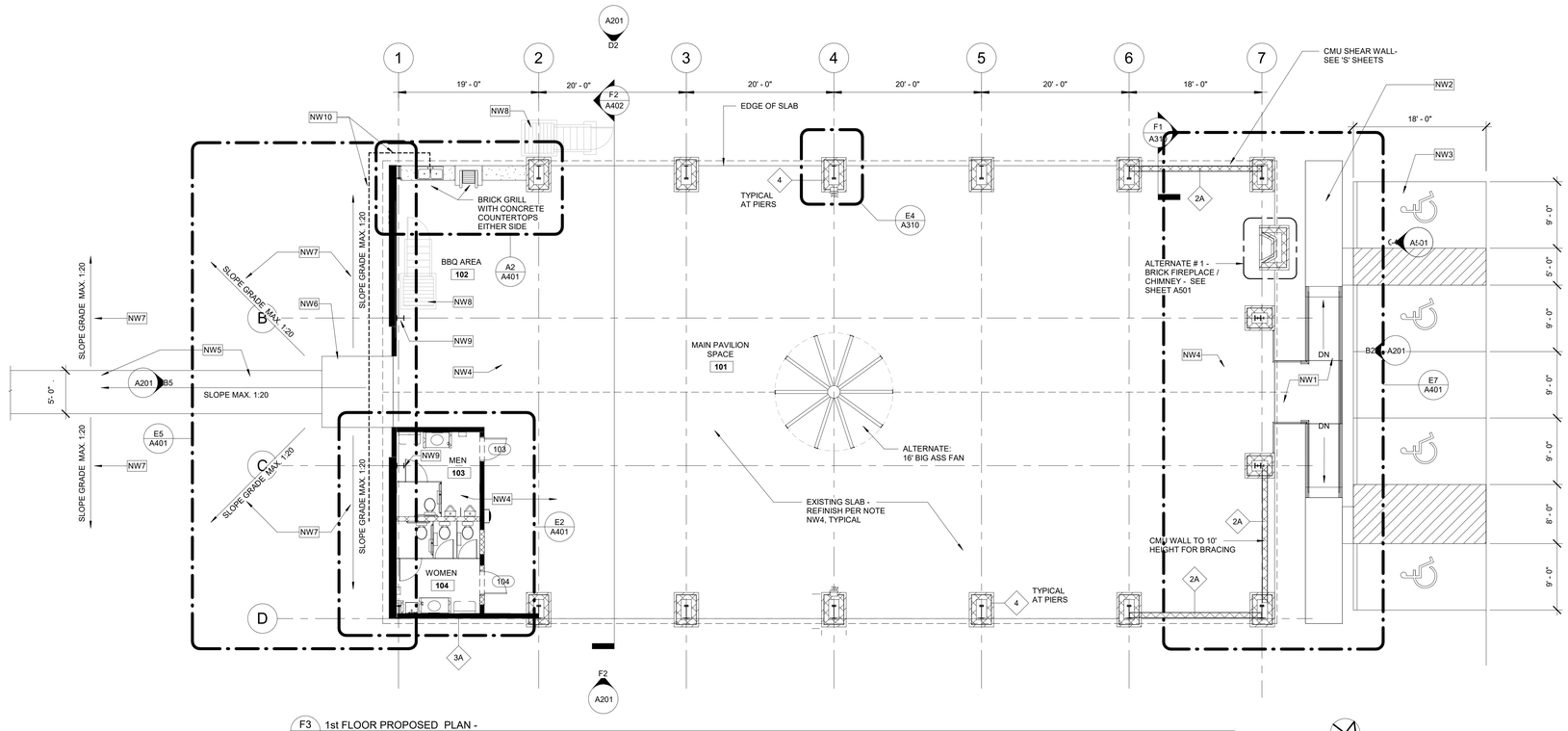
PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	1/8" = 1'-0"

A100

1/25/2023 2:16:01 PM



C3 / A101 1st FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



F3 / A101 1st FLOOR PROPOSED PLAN -
SCALE: 1/8" = 1'-0"

LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE REMOVED
- EXISTING DOOR TO BE REMOVED
- EXISTING WALK / RAMP TO BE REMOVED

GENERAL NOTES

1. INSTALL NEW CONCRETE SLAB INFILL AT ALL AREAS OF DEMOLISHED SLAB.

NEW WORK NOTES

NW1 NEW CONCRETE RAMP WITH STEEL PIPE GUARDRAIL/ HANDRAIL SYSTEM

NW2 NEW CONCRETE PAVING

NW3 NEW CONCRETE PAVING AT PARKING SPACES

NW4 CLEAN & SANDBLAST EXISTING CONCRETE SLAB. SEAL SLAB WITH SURFACE APPLIED PENETRATING SEALER. BASIS OF DESIGN IS SIKA SIKAGARD ® 740W - SILANE BASED REACTIVE WATER REPELLENT PENETRATING SEALER

NW5 NEW CONCRETE PAVING WITH COMPACTED FILL UNDERNEATH - PROVIDE MAX 1:20 SLOPE UP TO NEW CONCRETE STOOP AT ENTRY

NW6 NEW CONCRETE STOOP WITH COMPACTED FILL UNDERNEATH. SLOPE AWAY FROM ENTRY 1:20.

NW7 INSTALL FILL TO SLOPE WITH NEW CONCRETE PAVING AT MAX. 1:20 SLOPE. INSTALL FILL FROM CORNER OF BUILDING AT MAX. 1:20 SLOPE UP TO ELEVATION OF NEW CONCRETE STOOP AND SIDEWALK

NW8 ELECTRICAL PANEL / ELECT. METER PLATFORM PER DETAILS ON C2/A311

NW9 NEW STEEL COLUMN - SEE STUCTURAL DRAWINGS

NW10 NEW SANITARY LOINE. COORDANTE WITH STRUCTURAL AND EXISTING PLANTINGS

NOTES:

DEMOLITION NOTES

D1 REMOVE EXISTING CMU WALL

D2 REMOVE PORTION OF EXISTING CMU WALL WITH BRICK VENEER.

D3 REMOVE EXISTING EXTERIOR METAL WALL PANEL SYSTEM AND METAL GRILLES.

D4 REMOVE EXISTING METAL CANOPY.

D5 EXISTING INTERIOR WOOD FRAMED PARAPET PARTITION ABOVE CMU AT TOILET ROOMS TO REMAIN.

D5A REMOVE EXISTING WOOD FRAMED FLOOR SYSTEM AND CEILING.

D6 REMOVE EXISTING WOOD FRAMED STAIR

D7 REMOVE EXISTING DOOR AND FRAME

D8 REMOVE EXISTING VINYL FLOOR TILE AND OR CARPET - SEE ASBESTOS INSPECTION REPORT

D9 REMOVE PORTION OF CONCRETE SLAB. SEE STRUCTURAL DEMOLITION PLAN.

D10 REMOVE EXISTING METAL ROOF PANELS AND ROOF PURLINS

D11 REMOVE EXISTING CONCRETE STOOP.

D12 REMOVE EXISTING CONCRETE RAMP AND LANDING. REMOVE EXISTING METAL RAILS.

D12A REMOVE EXISTING CONCRETE SIDEWALK

D12B REMOVE EXISTING CONCRETE PARKING SPACES

D13 REMOVE EXISTING WOOD MECHANICAL PLATFORM.

D14 REMOVE EXISTING TOILET PARTITION DOORS AND TOILET ACCESSORIES.

D15 REMOVE EXISTING METAL SIIGN AND SEND STORE FOR FUTURE INSTALLATION AS DIRECTED BY CITY.

D16 REMOVE EXISTING PLUMBING FIXTURES, SEE PLUMBING DRAWINGS.

D17 REMOVE EXISTING LIGHT FIXTURES. SEE ELECTRICAL DRAWINGS.

SEALS

STATE OF SOUTH CAROLINA — ROSENBLUM COE ARCHITECTS, INC. CHARLESTON B-70022 — REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA — STEVEN HARLEY COE — REG. NO. 5573 — REGISTERED ARCHITECT

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

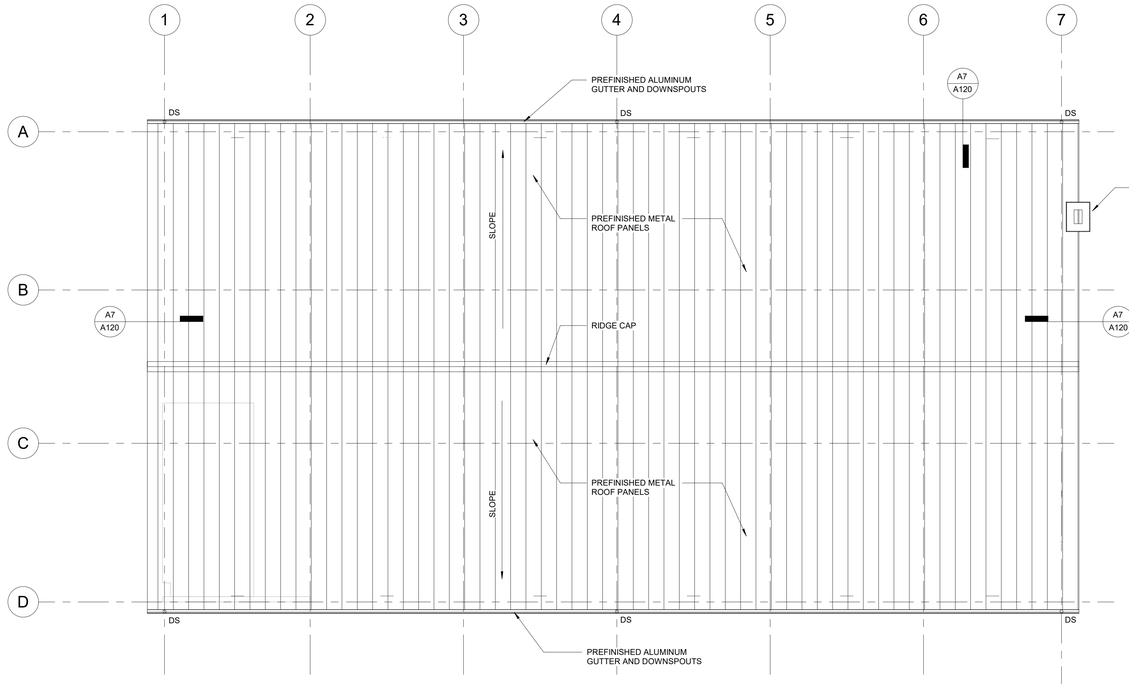
DEMOLITION & PROPOSED FLOOR PLANS

SHEET NAME

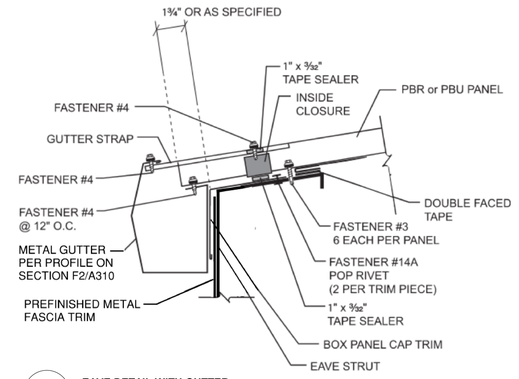
PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	1/8" = 1'-0"

A101

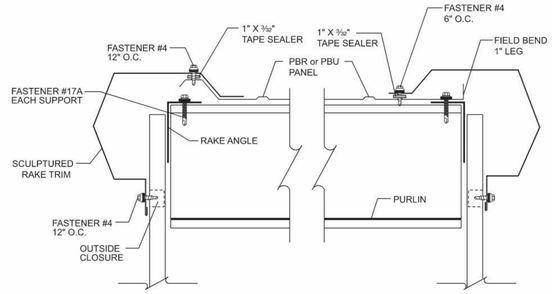
1/25/2023 2:16:02 PM



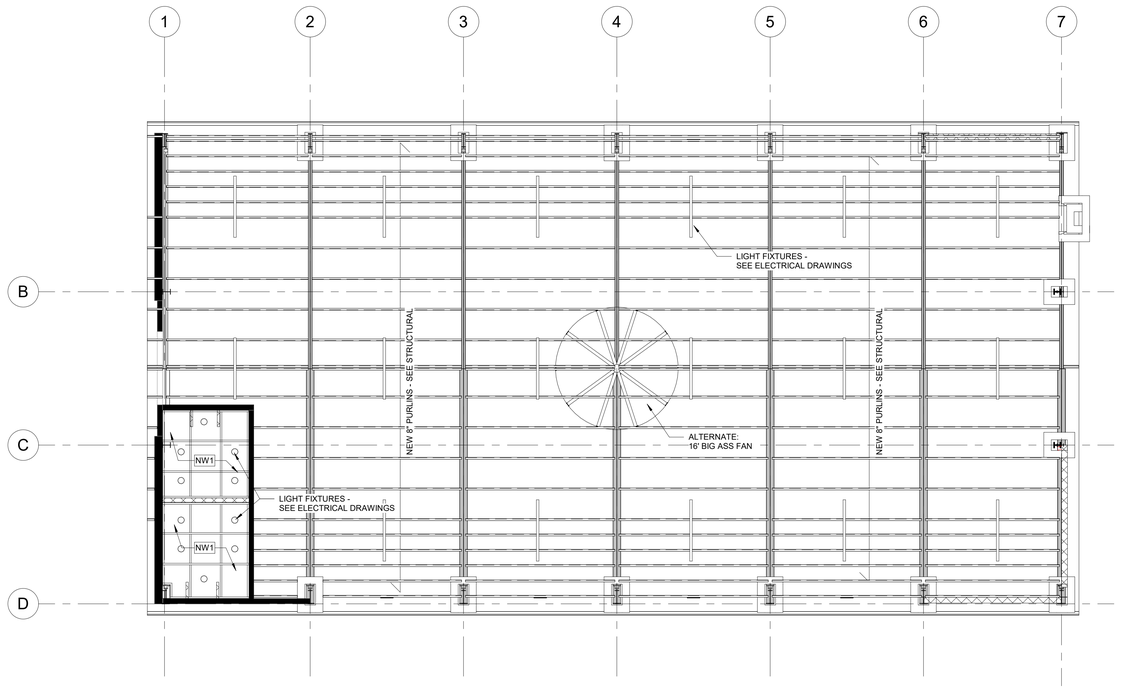
C2 / A120 ROOF PLAN
SCALE: 1/8" = 1'-0"



A7 / A120 **EAVE DETAIL WITH GUTTER**
NTS



C7 / A120 **RAKE DETAIL**
NTS



F2 / A120 1st FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

SEALS

NOTES:

NW 1 EXTERIOR RATED 5/8" PLYWOOD CEILING - PAINTED, WITH HARDIE BATTENS AT JOINTS

NW 2 EXPOSED CEILING STRUCTURE - PAINTED, EXPOSED UNDERSIDE OF METAL ROOF PANELS - PREFINISHED.

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD
PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

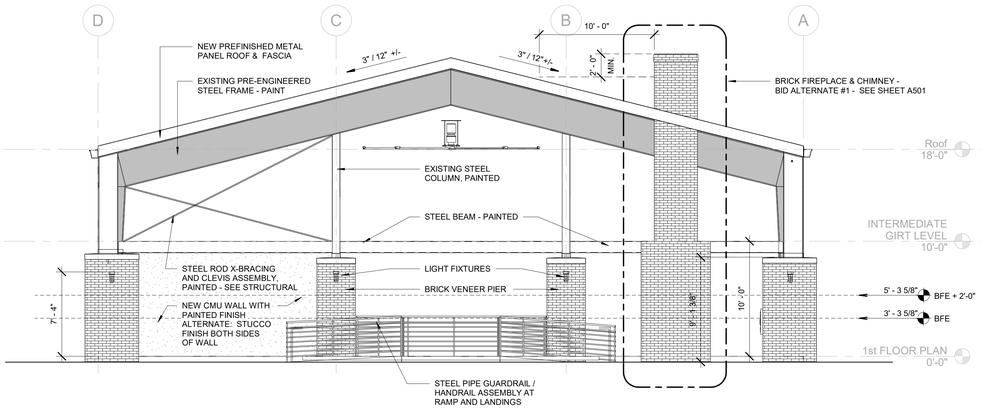
ROOF PLAN & 1ST FLOOR REFLECTED CEILING PLAN

SHEET NAME

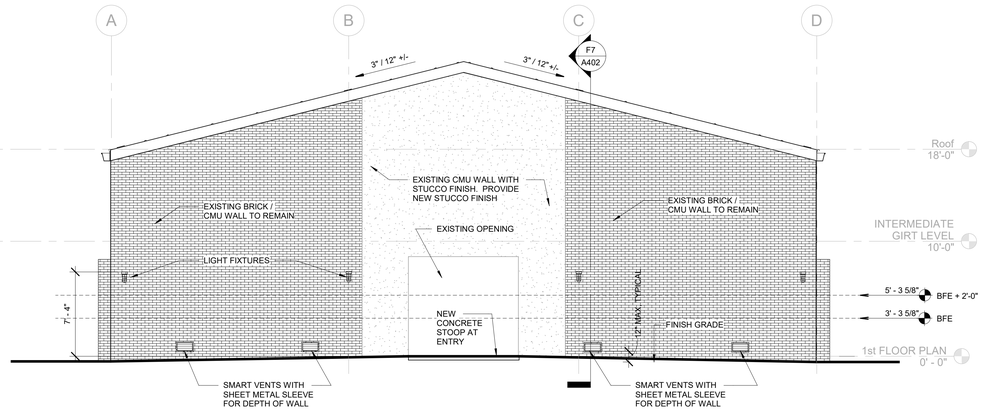
PROJECT NUMBER	22020
DRAWN BY	Author
CHECKED BY	Approver
DATE	12/19/2022
SCALE	1/8" = 1'-0"

A120

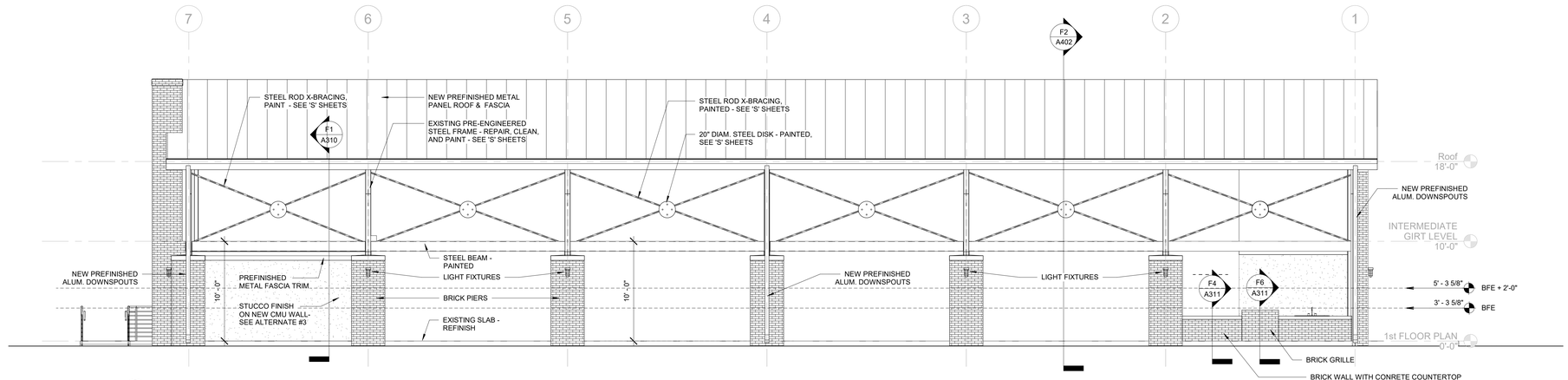
1/25/2023 2:16:02 PM



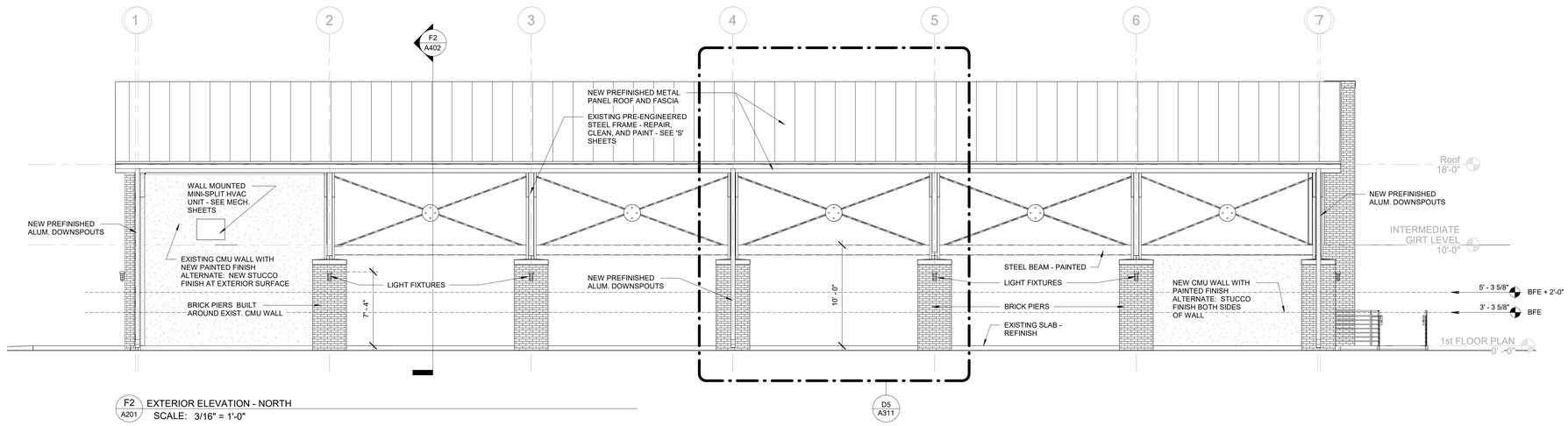
B2 / A201 EXTERIOR ELEVATION - WEST
SCALE: 3/16" = 1'-0"



B5 / A201 EXTERIOR ELEVATION - EAST
SCALE: 3/16" = 1'-0"



D2 / A201 EXTERIOR ELEVATION - SOUTH
SCALE: 3/16" = 1'-0"



F2 / A201 EXTERIOR ELEVATION - NORTH
SCALE: 3/16" = 1'-0"

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

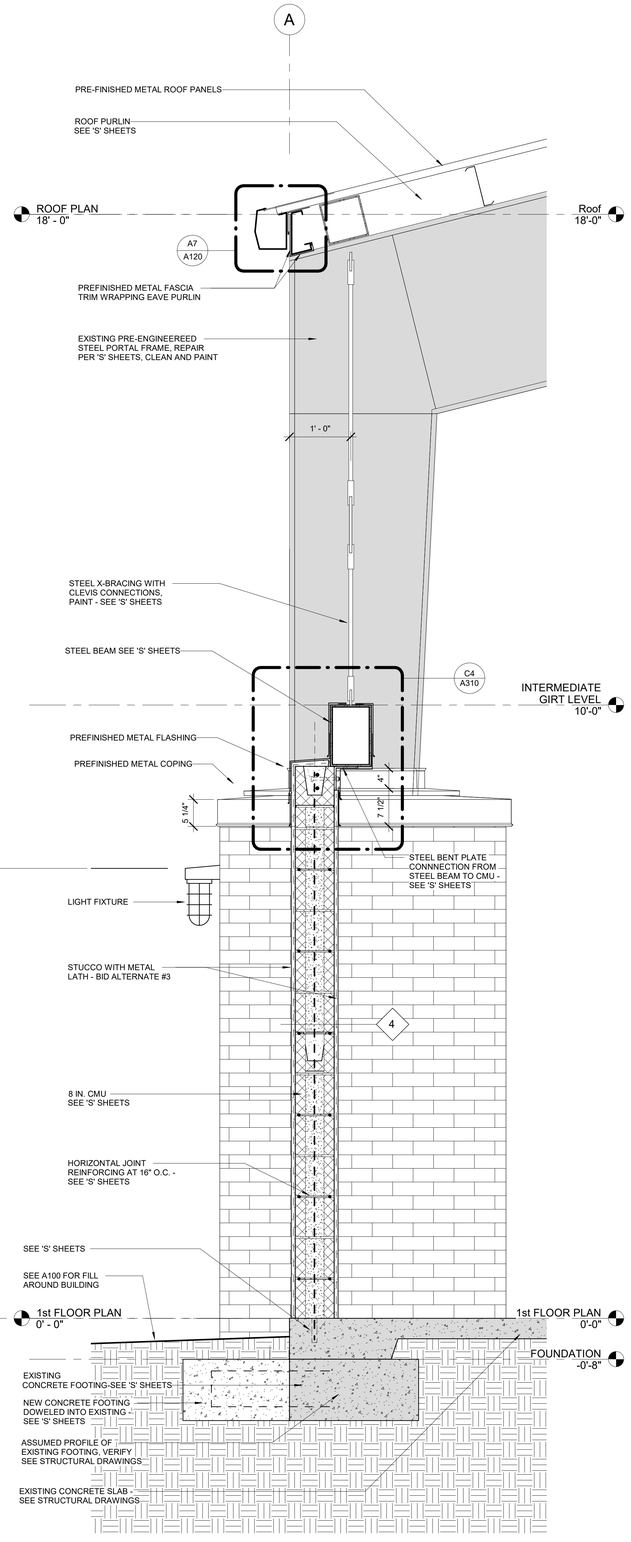
EXTERIOR ELEVATIONS -

SHEET NAME

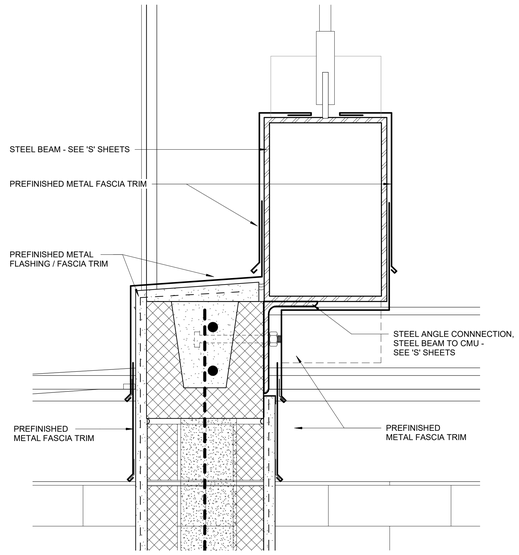
PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	3/16" = 1'-0"

A201

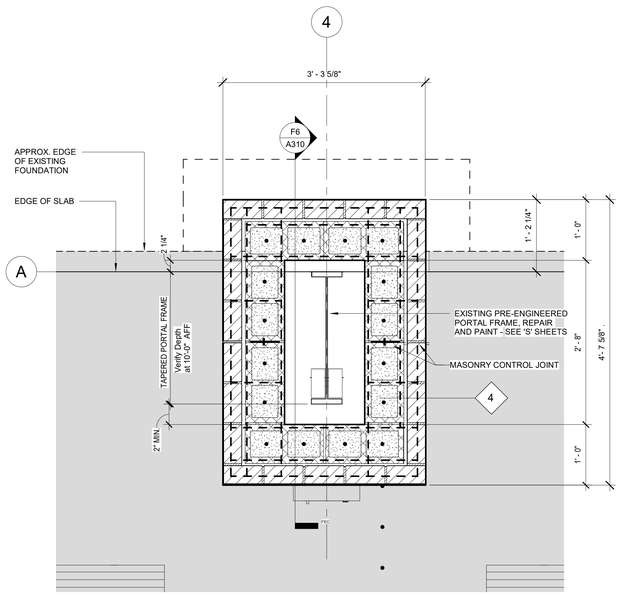
1/25/2023 2:16:04 PM



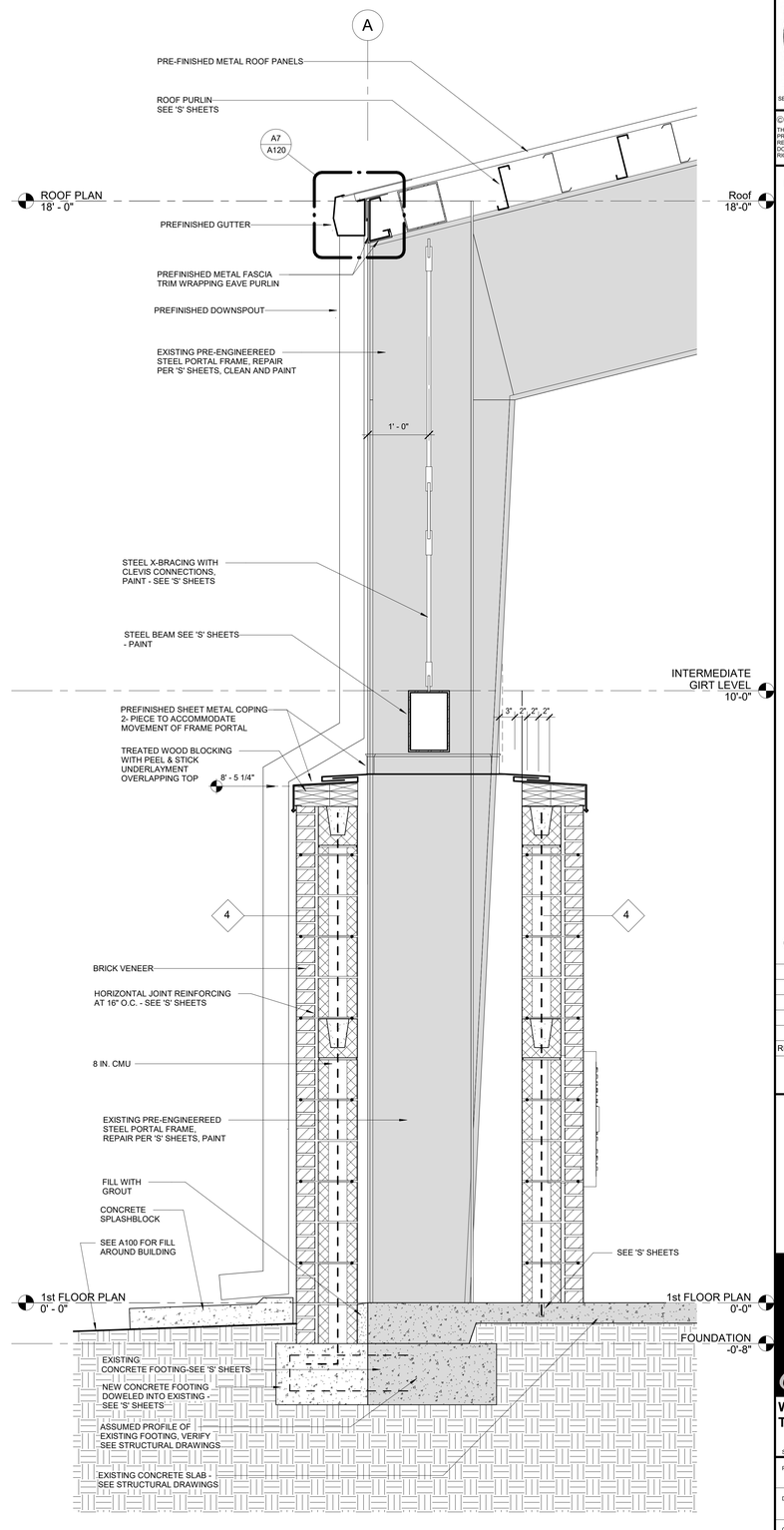
F1 A310 WALL SECTION AT CMU SHEAR WALL
SCALE: 1" = 1'-0"



C4 A310 DETAIL AT CMU WALL / STEEL BEAM
SCALE: 3" = 1'-0"



E4 A310 PLAN DETAIL AT TYPICAL PIER
SCALE: 1" = 1'-0"



F6 A310 WALL SECTION AT TYPICAL PIER
SCALE: 1" = 1'-0"

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS	

BOBBY ALFORD
PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

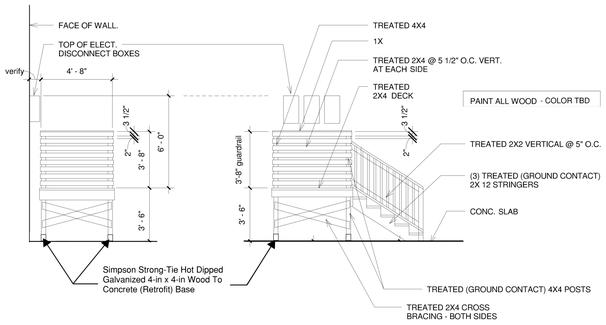
WALL SECTIONS, PLAN DETAIL AT TYPICAL PIER

SHEET NAME

PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	As indicated

A310

1/25/2023 2:16:04 PM

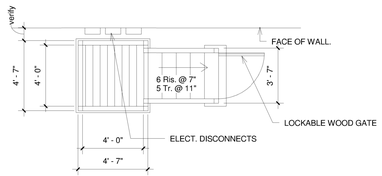


EAST ELEVATION
1/4"=1'-0"

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

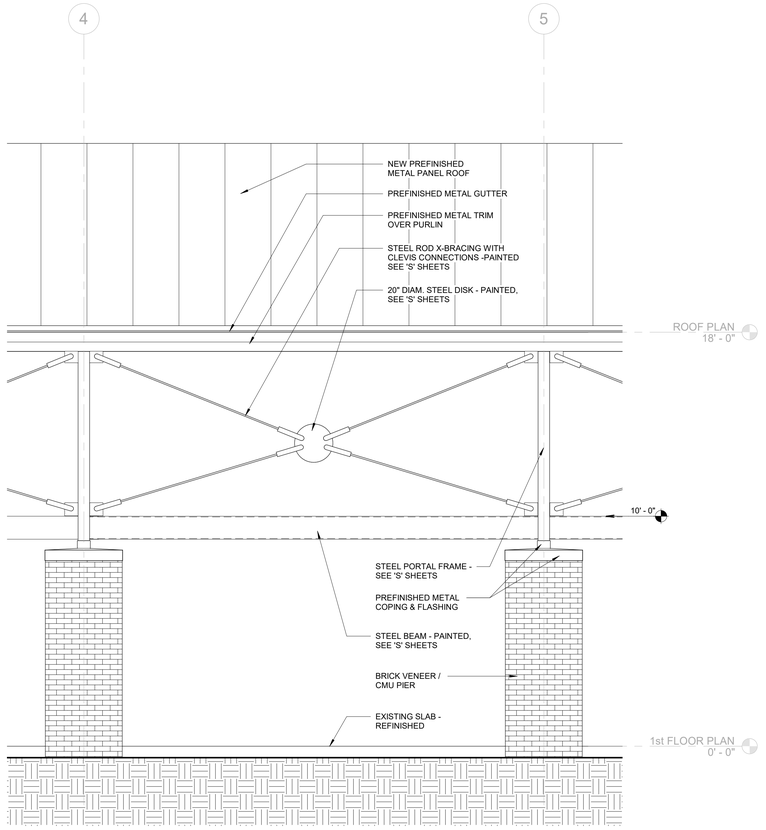
NOTE:
1. ALL MATERIALS FOR PLATFORMS SHALL BE WET-FLOODPROOFED COMPLIANT PER FEMA TECH BULLETIN 2

2. ALL NAILS & SCREWS SHALL BE STAINLESS STEEL. OTHER FASTENERS AND CONNECTORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED

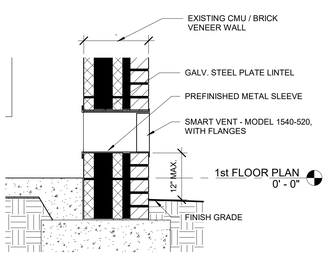


PLAN - 1/4"=1'-0"

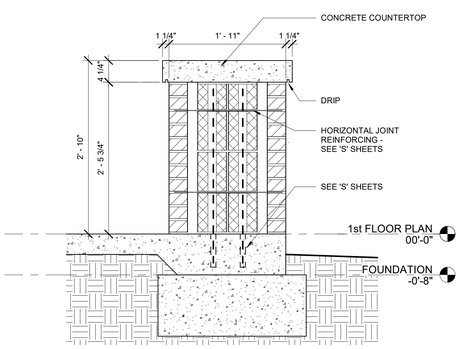
C2 / A311 - ELECTRICAL PANEL / METER ACCESS PLATFORMS PLAN + ELEVATIONS



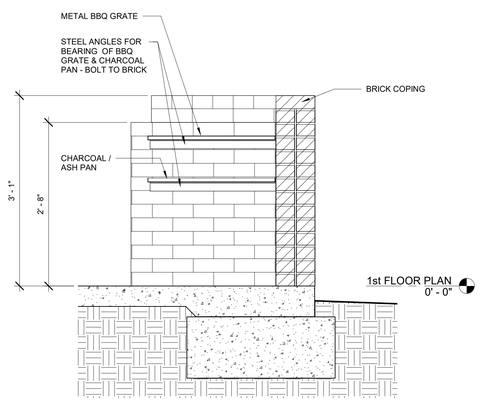
D5 / A311 ENLARGED ELEVATION - TYPICAL BAY
SCALE: 3/8" = 1'-0"



F2 / A311 SECTION AT SMART VENT
SCALE: 1" = 1'-0"



F4 / A311 SECTION - WALL EITHER SIDE OF BBQ GRILL
SCALE: 1" = 1'-0"



F6 / A311 SECTION AT BBQ GRILL
SCALE: 1" = 1'-0"

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

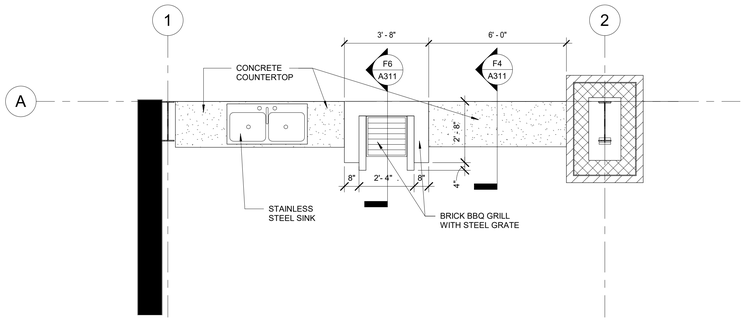
WALL SECTIONS

SHEET NAME

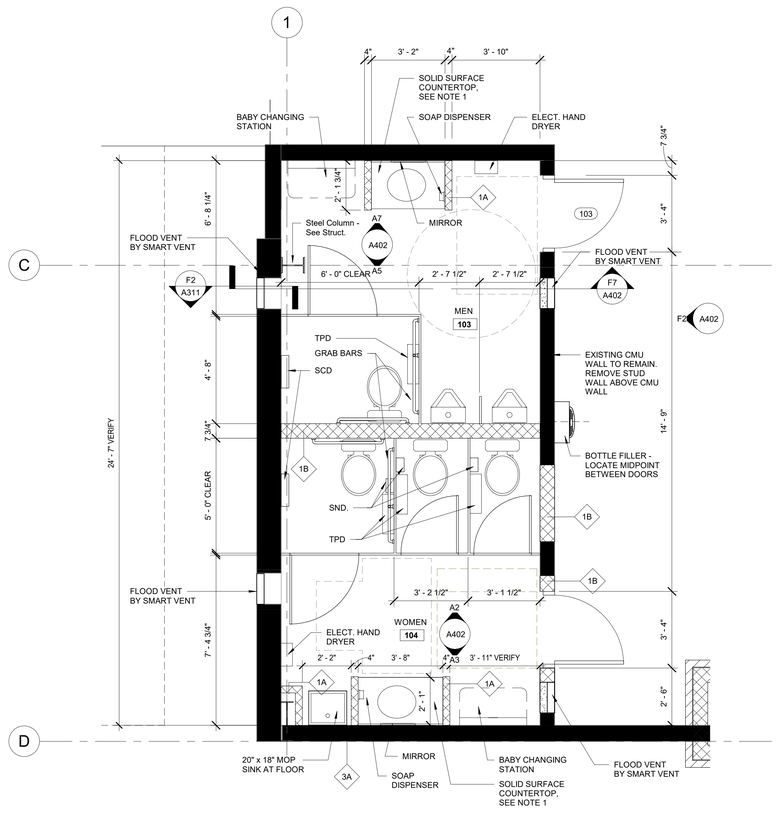
PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	As indicated

A311

1/25/2023 2:16:05 PM



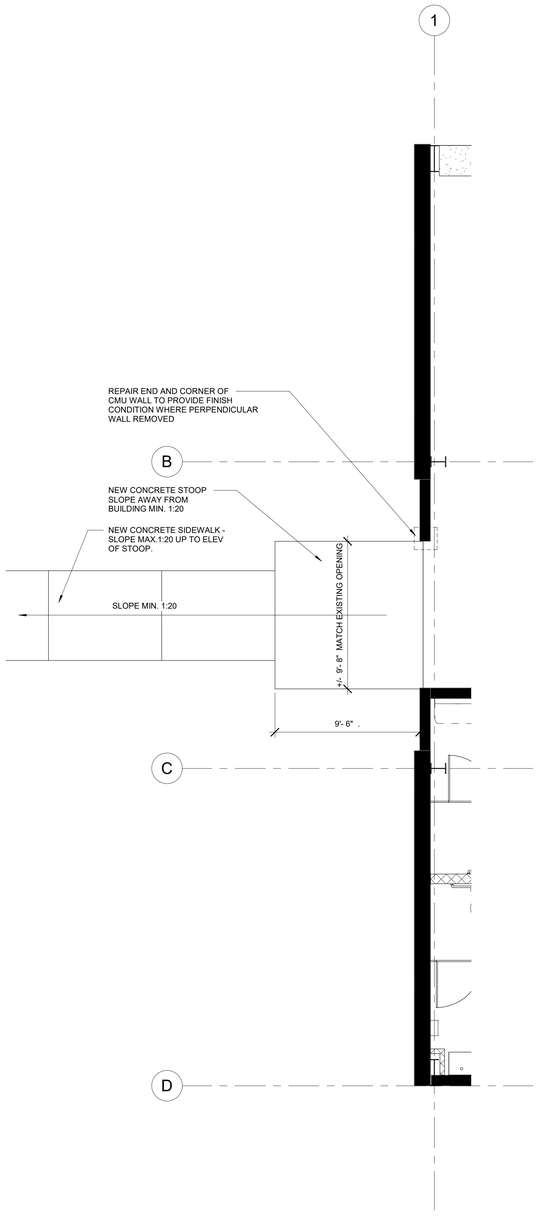
A2 / A401 ENLARGED PLAN AT BBQ GRILL AND COUNTER
SCALE: 3/8" = 1'-0"



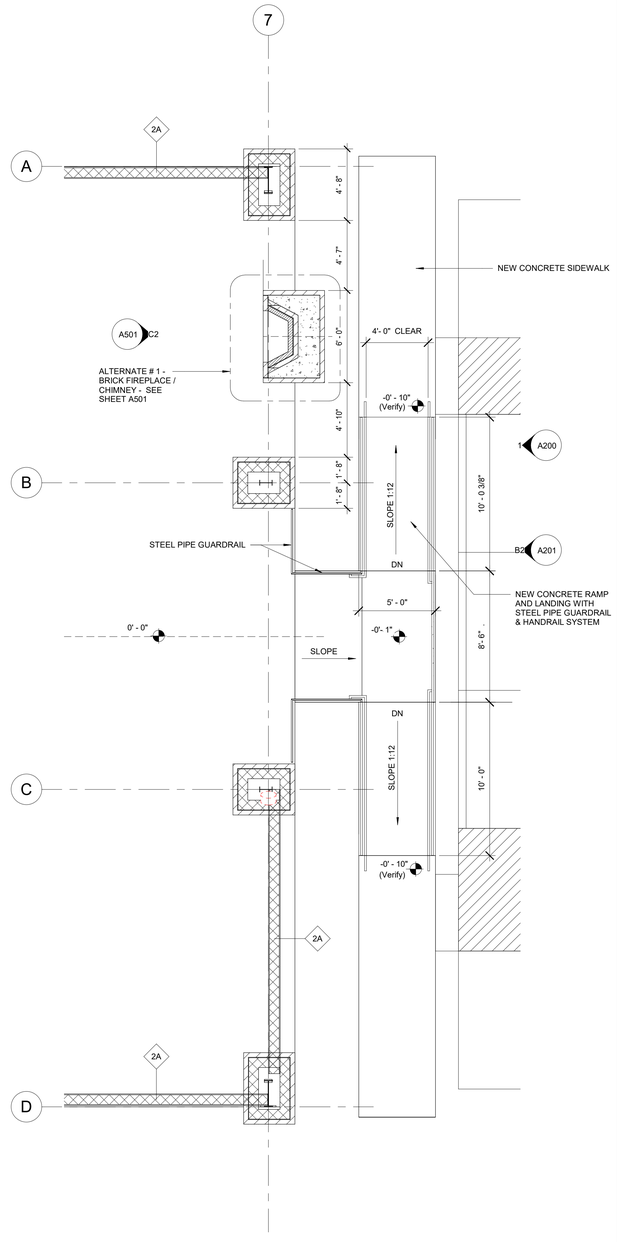
E2 / A401 ENLARGED TOILET ROOM PLAN
SCALE: 3/8" = 1'-0"

LEGEND

TPD TOILET PAPER DISPENSER
SND SANITARY NAPKIN DISPOSAL
SCD SEAT COVER DISPENSER



E5 / A401 ENLARGED SOUTH RAMP PLAN
SCALE: 1/4" = 1'-0"



E7 / A401 ENLARGED RAMP & FIREPLACE PLAN
SCALE: 1/4" = 1'-0"

NOTES:

NOTE 1 SOLID SURFACE COUNTERTOP, BACKSPLASH, AND ENDSPLASH CONSTRUCTED WITH MARINE GRADE PLYWOOD AND FLOOD RESISTANT ADHESIVE MEETING REQUIREMENTS OF LEVEL 4 & 5 FLOOD RESISTANT MATERIALS PER FEMA TECH. BULLETIN 2. FASTENERS AND CONNECTORS SHALL BE OF STAINLESS STEEL.

LEGEND

EXISTING WALL TO REMAIN
NEW CMU WALL
NEW BRICK VENEER

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD
PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.

ROSENBLUM COE
ARCHITECTS,
INC.

1643 MEANS STREET
CHARLESTON, SC 29412

843.577.6073

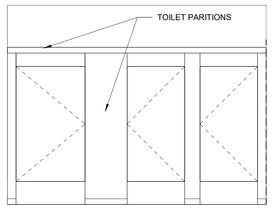
ENLARGED PLANS

SHEET NAME

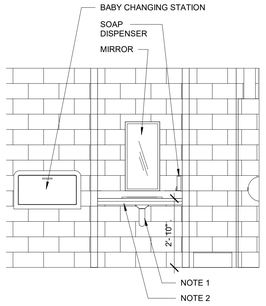
PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	As indicated

A401

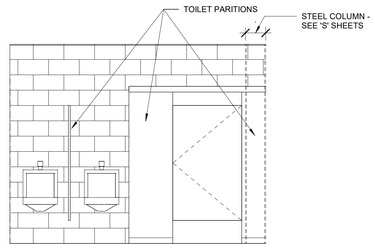
1/25/2023 2:21:43 PM



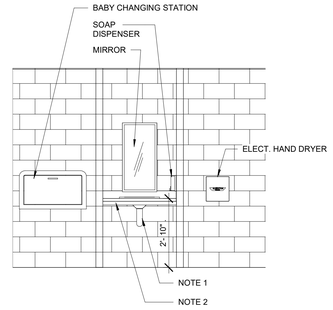
A2 / A402 INTERIOR ELEVATION - TOILET PARTITIONS WOMENS 104
SCALE: 3/8" = 1'-0"



A3 / A402 INTERIOR ELEVATION - WOMEN 104
SCALE: 3/8" = 1'-0"



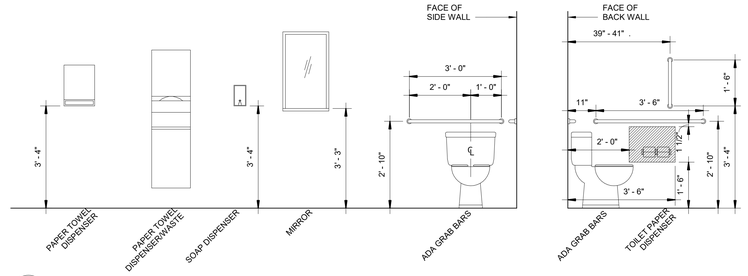
A5 / A402 INTERIOR ELEVATION - TOILET PARTITIONS AT MENS 103
SCALE: 3/8" = 1'-0"



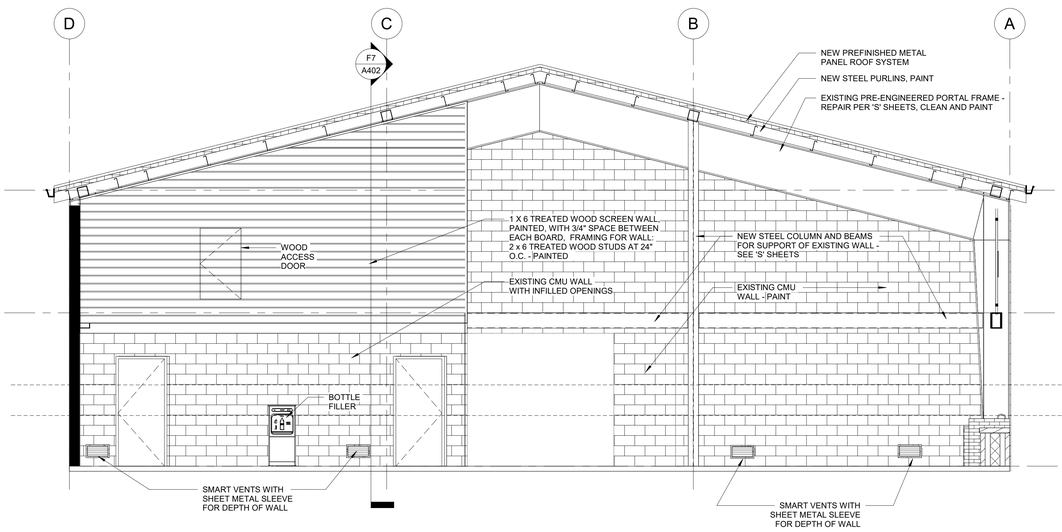
A7 / A402 INTERIOR ELEVATION -
SCALE: 3/8" = 1'-0"

Door Schedule														
Door Number	Type	Room	Door						Frame					Comments
			Width	Height	Thickness	Material	Finish	Fire Rating	Type	Material	Finish	Jamb	Head	
103	L	103	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINTED	NONE		HM	PAINTED			4" HEAD AT DOOR FRAME
104	L	104	3' - 0"	7' - 0"	0' - 1 3/4"	HM	PAINTED	NONE		HM	PAINTED			4" HEAD AT DOOR FRAME

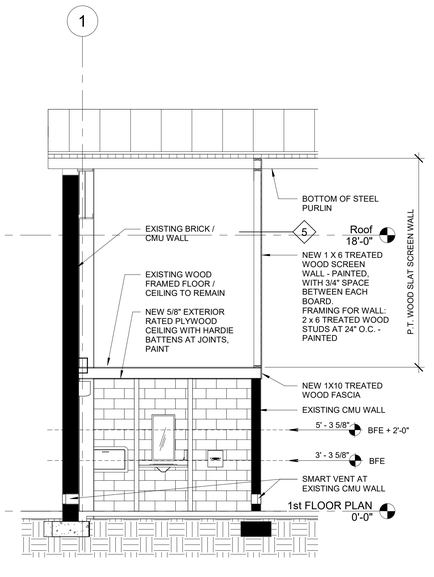
Room Finish Schedule							
Room Number	Room Name	Floor	Base	Wall	Ceiling	Ceiling Height	Comments
103	MEN	SEALED CONCRETE	NONE	PAINTED CMU	EXTERIOR GRADE PLYWOOD WITH HARDIE BATTENS - PAINT	MATCH EXISTING	CLEAN / ?MATCH EXISTING:XISTING CONCRETE SLAB, APPLY SEALANT. BASIS OF DESIGN: SIKA SIKAGARD 740 SEALER
104	WOMEN	SEALED CONCRETE	NONE	PAINTED CMU	EXTERIOR GRADE PLYWOOD WITH HARDIE BATTENS - PAINT	MATCH EXISTING	CLEAN / SANDBLAST EXISTING CONCRETE SLAB, APPLY SEALANT. BASIS OF DESIGN: SIKA SIKAGARD 740 SEALER
101	MAIN PAVILION SPACE	SEALED CONCRETE	NONE	BRICK, PAINTED CMU,PAINTED WOOD	EXPOSED ROOF STRUCTURE - PAINT, PREFINISHED UNDERSIDE OF ROOF PANELS		CLEAN / SANDBLAST EXISTING CONCRETE SLAB, APPLY SEALANT. BASIS OF DESIGN: SIKA SIKAGARD 740 SEALER
102	BBQ AREA	SEALED CONCRETE	NONE	BRICK, PAINTED CMU,PAINTED WOOD	EXPOSED ROOF STRUCTURE - PAINT, PREFINISHED UNDERSIDE OF ROOF PANELS		CLEAN / SANDBLAST EXISTING CONCRETE SLAB, APPLY SEALANT. BASIS OF DESIGN: SIKA SIKAGARD 740 SEALER
103	MEN						



C6 / A402 ADA MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"



F2 / A402 SOUTHEAST INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



F7 / A402 BUILDING SECTION AT TOILET ROOMS
SCALE: 1/4" = 1'-0"

NOTES:

NOTE 1 PROVIDE INSULATING JACKET AT DRAIN PIPE, TYPICAL

NOTE 2 SOLID SURFACE COUNTERTOP, BACKSPLASH, AND ENDSPLASH CONSTRUCTED WITH MARINE GRADE PLYWOOD AND FLOOD RESISTANT ADHESIVE MEETING REQUIREMENTS OF LEVEL 4 & 5 FLOOD RESISTANT MATERIALS PER FEMA TECH. BULLETIN 2. FASTENERS AND CONNECTORS SHALL BE OF STAINLESS STEEL.

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

INTERIOR ELEVATIONS, FINISH SCHEDULE, DOOR SCHEDULE

SHEET NAME

PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	As indicated

A402

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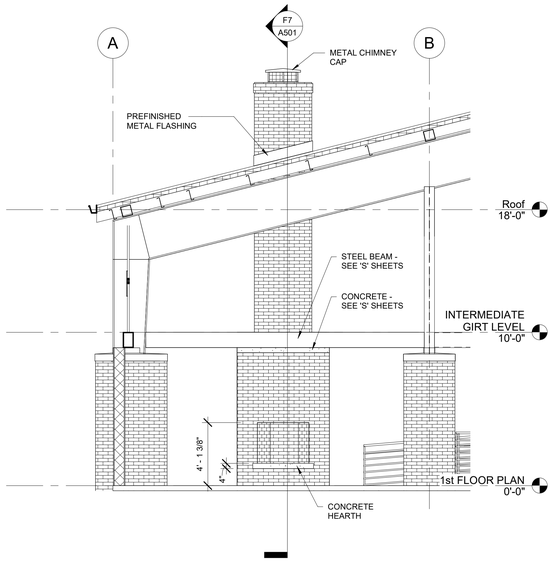
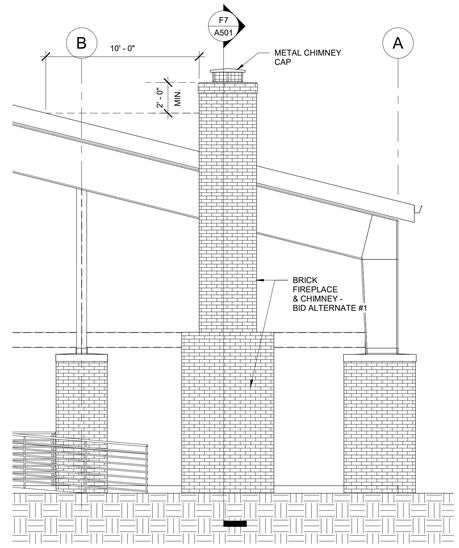
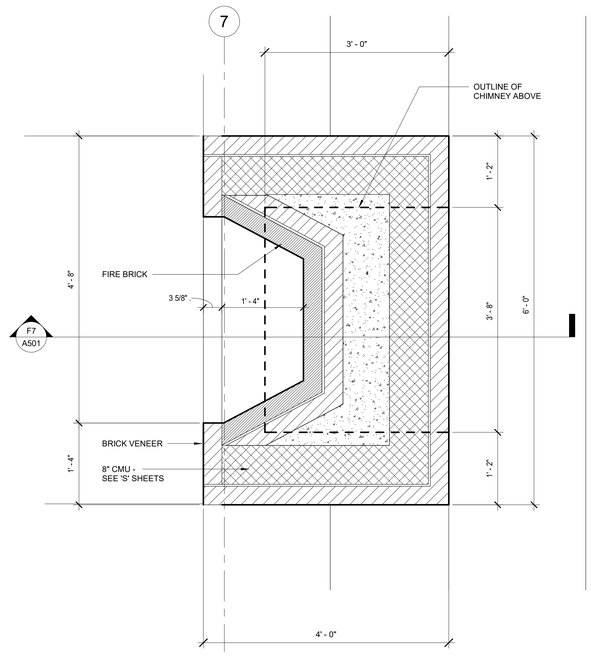


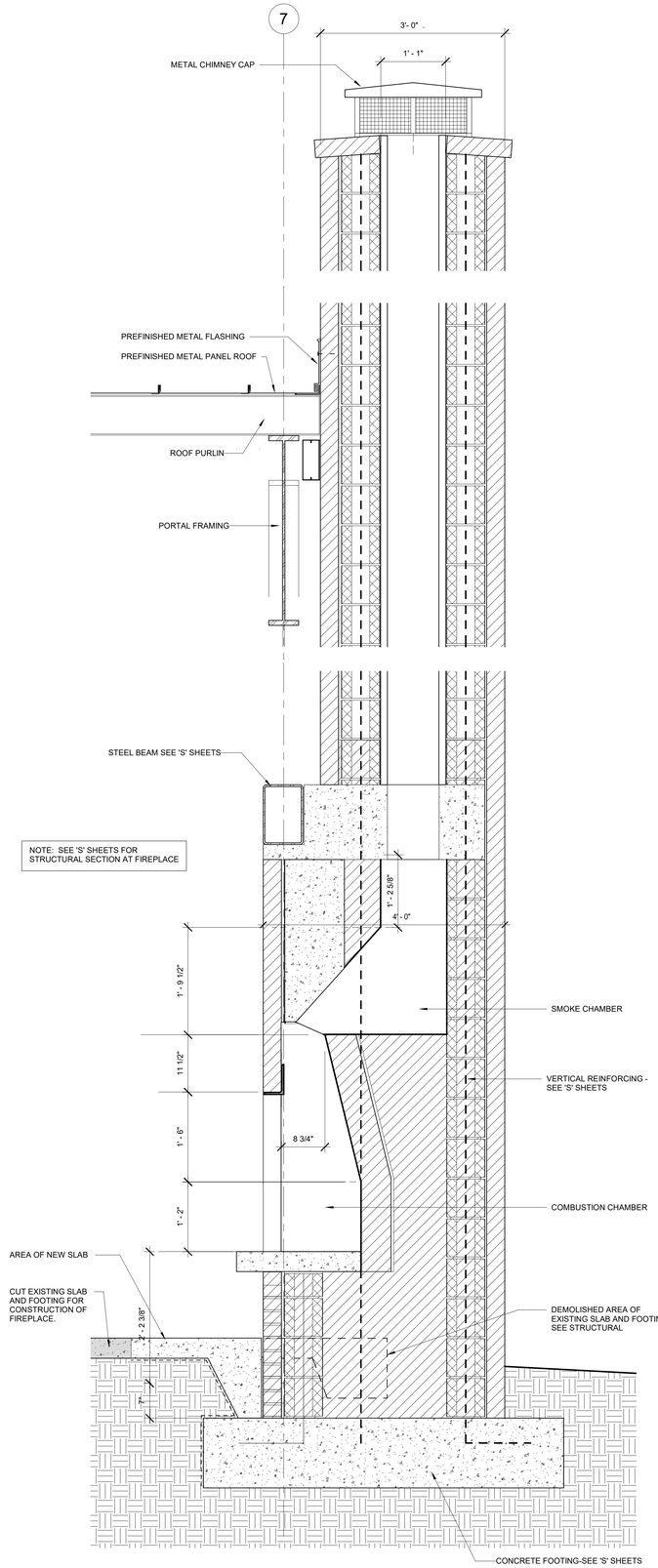
C2 / A501 INTERIOR ELEVATION AT FIREPLACE / CHIMNEY
SCALE: 1/4" = 1'-0"



C4 / A501 EXTERIOR ELEVATION AT FIREPLACE / CHIMNEY - BID ALTERNATE #1
SCALE: 1/4" = 1'-0"



F4 / A501 PLAN DETAIL AT FIREPLACE
SCALE: 1" = 1'-0"



F7 / A501 WALL SECTION AT FIREPLACE / CHIMNEY - ALTERNATE #1
SCALE: 1" = 1'-0"

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS	

BOBBY ALFORD PAVILION
PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

FIREPLACE / CHIMNEY WALL SECTION, PLAN DETAIL, ELEVATION - ALTERNATE #1
SHEET NAME

PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	As indicated

A501

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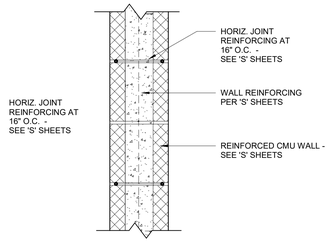
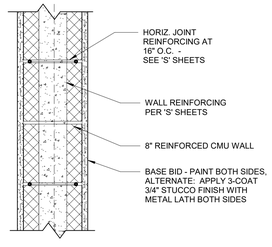


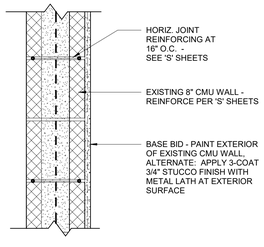
TYPE	CMU SIZE	PART. THICK.	KEYED NOTES	
1A	4"	4"		
1B	8"	8"		

1 A621 WALL TYPE 1 - CMU WALL
SCALE: 1 1/2" = 1'-0"



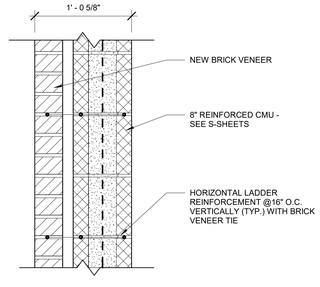
TYPE	CMU SIZE	PART. THICK.	KEYED NOTES	
2A	8"	8"		

2 A621 WALL TYPE 2 - NEW CMU WALL W/ PAINTED OR STUCCO FINISH
SCALE: 1 1/2" = 1'-0"



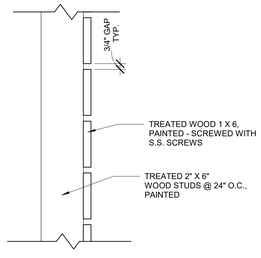
TYPE	CMU SIZE	PART. THICK.	KEYED NOTES	
3A	8"	8"		

3 A621 WALL TYPE 3 - EXIST. CMU WALL W/ NEW STUCCO FINISH (1 SIDE)
SCALE: 1 1/2" = 1'-0"



TYPE	CMU SIZE	PART. THICK.	KEYED NOTES	
4A	8"	8"		

4 A621 WALL TYPE 4 - BRICK VENEER / CMU WALL
SCALE: 1 1/2" = 1'-0"



TYPE	WOOD STUD	PART. THICK.	KEYED NOTES	
5A	5 1/2"	6 1/4"		

5 A621 WALL TYP 5 - WOOD SLAT SCREEN WALL ABOVE CMU AT TOILET ROOMS
SCALE: 1 1/2" = 1'-0"

STATE OF SOUTH CAROLINA
ROSENBLUM COE ARCHITECTS, INC.
CHARLESTON
B-7602Z
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
STEVEN HARLEY COE
REG. NO. 5573
REGISTERED ARCHITECT

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION PROJECT #1222

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

WALL TYPES

SHEET NAME

PROJECT NUMBER	22020
DRAWN BY	JMB
CHECKED BY	SHC
DATE	12/19/2022
SCALE	1 1/2" = 1'-0"

A621

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ABBREVIATIONS:

AB	ANCHOR BOLT
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ALT	ALTERNATE
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT
B/	BOTTOM OF
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
BRDG	BRIDGING
BRG	BEARING
BLK	BLOCK
BTWN	BETWEEN
CANT	CANTILEVER
C/C	CENTER TO CENTER
CHAM	CHAMFER
CIRC	CIRCULAR
CJ	CONTROL JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CTRD	CENTERED
D	DEPTH
DBE	DECK BEARING ELEVATION
DBL	DOUBLE
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DWGS	DRAWINGS
E	EAST
EA	EACH
EB	EXPANSION BOLT
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEV	ELEVATOR
EMBED	EMBEDMENT
ENGR	ENGINEER
EOS	EDGE OF SLAB
EQ	EQUAL
EQUIP	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
EW	EACH WAY
EXP	EXPANSION
EXIST	EXISTING
EXT	EXTERIOR
FC	FILLED CELL
FF	FINISHED FLOOR
FIN	FINISH
FLR	FLOOR
FDN	FOUNDATION
FRMG	FRAMING
FT	FEET
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
HDG	HOT DIP GALVANIZED
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSB	HIGH STRENGTH BOLT
HT	HEIGHT
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCL	INCLUDE, ING
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
LB	POUND
LG	LONG
LL	LIVE LOAD
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LSL	LONG SLOTTED HOLES
LT	LIGHT
LTWT	LIGHTWEIGHT
MAS	MASONRY
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MJ	MASONRY JOINT
MO	MASONRY OPENING
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NEAR SIDE
NTS	NOT TO SCALE
O/O	OUT TO OUT
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OW	OPEN WEB
PAF	POWDER ACTUATED FASTENER
PL	PLATE
PLF	POUNDS PER LINEAL FOOT
PROJ	PROJECTION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
RAD	RADIUS
REF	REFERENCE
REINF	REINFORCEMENT
RET	RETURN
REV	REVISION
RP	RADIUS POINT
RT	RIGHT
RTU	ROOF TOP UNIT
S	SOUTH
SA	SLEEVE ANCHOR
SB	SLAB BOLSTER
SCHED	SCHEDULE
SECT	SECTION
SF-	STEP FOOTING
SIM	SIMILAR
SPEC	SPECIFICATIONS
SP	SPACING,ES
SQ	SQUARE
SSL	SHORT SLOTTED HOLES
SS	STAINLESS STEEL
STD	STANDARD
STIFF	STIFFENERS
STL	STEEL
SYMM	SYMMETRICAL
T/	TOP OF
TB	TIE BEAM
TC	TIE COLUMN
TCX	TOP CHORD EXTENSION
T&B	TOP AND BOTTOM
TEMP	TEMPORARY
TRAN	TRANSVERSE
TS	TUBE STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W	WEST
W/	WITH
W/O	WITHOUT
WP	WORK POINT
WT	WEIGHT
WWM	WELDED WIRE MESH

GENERAL NOTES

1. STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ENTIRE SET OF PROJECT DRAWINGS, PROJECT MANUAL, AND ALL SHOP DRAWING SUBMITTALS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS, CLEARANCES AND ALL OTHER COORDINATION ISSUES WITH OTHER TRADES.
3. IN CASE OF CONFLICT BETWEEN VARIOUS STRUCTURAL DRAWINGS, STRUCTURAL PLANS, OR STRUCTURAL DETAILS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
4. IN CASE OF CONFLICT BETWEEN DRAWINGS, DRAWING NOTES, AND SPECIFICATIONS THE MORE STRINGENT SHALL GOVERN. THE CONTRACTOR SHALL MAKE ALLOWANCE IN HIS BID FOR THE MORE COSTLY CONDITION.
5. WORK NOT INDICATED ON THE DRAWINGS, BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED.
6. ALL NOTES, DETAILS AND SECTIONS ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS INDICATED OR REFERENCED. ALL NOTES, DETAILS AND SECTIONS SHALL APPLY TO ANY SIMILAR SITUATION THROUGHOUT THE ENTIRE PROJECT UNLESS A SEPARATE NOTE, DETAIL OR SECTION IS PROVIDED.
7. REVIEW ALL PROJECT DOCUMENTS PRIOR TO FABRICATION AND START OF CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE OWNER OR OWNERS REPRESENTATIVE PRIOR TO PROCEEDING WITH WORK.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROTECT EXISTING AND IN PLACE WORK OR UTILITIES DURING CONSTRUCTION
9. COORDINATE STRUCTURAL DRAWINGS WITH OTHER CONTRACT DRAWINGS, SPECIFICATIONS, OR SHOP DRAWINGS WHICH MAY AFFECT THE STRUCTURAL WORK.
10. USE OF REPRODUCED CONTRACT DRAWINGS IN PART OR WHOLE FOR THE PURPOSE OF SHOP DRAWING PREPARATION SHALL NOT RELIEVE THE CONTRACTOR OR SUBCONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAYOUT, COORDINATE, DETAIL, FABRICATE AND INSTALL A COMPLETE STRUCTURE.
11. ALL SUBMITTALS SHALL BE REVIEWED BY THE SUBCONTRACTOR AND CONTRACTOR FOR CONFORMANCE TO THE CONTRACT DOCUMENTS, FOR COMPLETENESS, AND TO RESPOND TO CONTRACTOR COORDINATION RELATED QUESTIONS PRIOR TO SUBMITTING FOR APPROVAL. ALL SHEETS SHALL BE STAMPED AND INITIALED BY THE CONTRACTOR INDICATING SUCH A REVIEW HAS BEEN COMPLETED PRIOR TO ISSUING SUBMITTAL FOR APPROVAL.
12. CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL.
13. ALL ELEVATIONS INDICATED IN STRUCTURAL DRAWINGS ARE IN REFERENCE TO A GROUND FLOOR FINISHED SLAB ELEVATION OF 0'-0" UNLESS NOTED OTHERWISE. SEE CIVIL FOR GROUND FLOOR FINISHED SLAB ELEVATION.

FOUNDATIONS

1. SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION "XXXXXX-XXXXXXXXX"
2. PROVIDE ALL MEASURES NECESSSARY FOR THE INSTALLATION OF FOUNDATIONS INCLUDING BUT NOT LIMITED TO DEWATERING AND SHORING.
3. CENTER ALL FOUNDATIONS BENEATH THEIR RESPECTIVE WALL OR COLUMN UNLESS NOTED OTHERWISE.
4. HORIZONTAL JOINTS ARE NOT PERMITTED IN FOUNDATIONS
5. SEE TYPICAL DETAILS FOR CONSTRUCTION OF VERTICAL CONSTRUCTION JOINTS AND LIMITATIONS ON LOCATIONS
6. DO NOT INSTALL PLUMBING OR PLUMBING SLEEVES IN OR THROUGH FOUNDATIONS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS, OR WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD
7. PLUMBING RUNS BELOW GRADE SHALL NOT RUN BENEATH AND PARALLEL TO CONTINUOUS FOOTINGS
8. ALL REINFORCING STEEL SHALL BE SUPPORTED ON CHAIRS OR BOLSTERS TO PROPER ELEVATION AND SHALL BE SECURELY ANCHORED
9. FOUNDATION SIZES SHOWN ASSUME FOOTINGS ARE CONSTRUCTED WITH SIDE FORMS
10. EARTH FORMED FOUNDATIONS ARE PERMITTED IF SUBGRADE IS STABLE ENOUGH TO HOLD THE FACE OF THE EXCAVATION. ALL FOUNDATION SIZES FOR EARTH FORMED FOUNDATIONS SHALL BE INCREASED 1" IN ALL DIRECTIONS
11. ALL FOUNDATION EXCAVATIONS SHALL BE DEWATERED PRIOR TO PLACING CONCRETE
12. BACKFILL SHALL NOT BE PLACED AGAINST FOUNDATION WALLS UNTIL CONCRETE OR GROUT HAS ACHIEVED 75% OF THE REQUIRED STRENGTH.
13. FIELD TESTING AND INSPECTION OF FOUNDATIONS, SUBGRADE MATERIALS AND SUBGRADE PREPARATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

MASONRY

1. ALL MASONRY SHALL CONFORM TO SPECIFICATION SECTION 042000-"UNIT MASONRY"
2. MASONRY CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES (TMS 402/602-16) EXCEPT AS MODIFIED OR AMENDED BY THE CONTRACT DOCUMENTS
3. LAP SPLICES FOR STEEL REINFORCING SHALL BE PER SCHEDULES
4. GROUT MASONRY AT ALL REINFORCING, LOCATIONS SHOWN IN PLANS, SCHEDULES AND DETAILS AND AS REQUIRED FOR MISCELLANEOUS ANCHORAGE
5. GROUT SOLID ALL MASONRY BELOW GRADE, INCLUDING BUT NOT LIMITED TO STEM WALLS AND RETAINING WALLS.
6. CAP ALL UNREINFORCED CELLS NOT SPECIFICALLY NOTED TO BE GROUTED WITH CLOSURE PLATES OR SCREENS PRIOR TO GROUTING.
7. EXTEND ALL NON-LOAD BEARING WALLS A MINIMUM OF 8" ABOVE CEILING AND CAP WITH A CONTINUOUS BOND BEAM REINFORCED WITH (2)-#5'S UNLESS NOTED OTHERWISE
8. PROVIDE LINTELS OVER ALL OPENINGS PER PLANS, SCHEDULES, AND DETAILS. PROVIDE LINTELS OVER ALL OPENINGS WIDER THAN 12" INCLUDING HVAC DUCTS, PIPING, EMBEDDED PANELS AND CABINETS, AND CONDUIT.
9. PROVIDE POURED SILL UNITS WITH KNOCK-OUT BOTTOMS AT THE BOTTOM OF ALL OPENINGS AND REINFORCE PER SCHEDULES AND DETAILS.
10. ALL OPENINGS FOR ELEMENTS PASSING THROUGH MASONRY WALLS SHALL BE BUILT IN AS WORK PROGRESSES. SAW CUTTING OR CORING OF COMPLETED MASONRY CONSTRUCTION IS NOT PERMITTED.
11. ALL OPENINGS FOR ELEMENTS PASSING THROUGH MASONRY WALLS SHALL BE COORDINATED SUCH THAT THEY DO NOT PASS THROUGH OR INFRINGE ON OTHER MASONRY LINTELS INCLUDING THE FULL DEPTH OF THE LINTEL FOR THE FULL WIDTH OF THE BEARING.
12. COORDINATE VERTICAL REINFORCING WITH ALL SCHEDULES, DETAILS AND TYPICAL DETAILS
13. PROVIDE MASONRY CONTROL JOINTS LOCATED AND REINFORCED PER PLANS, NOTES AND TYPICAL DETAILS
14. GROUT A MINIMUM OF 24" (OR TO BOND BEAM BELOW IF LESS THAN 24") AT ALL BEARING PLATES.
15. COORDINATE INSTALLATION OF MASONRY WALLS WITH ALL TRADES AND STRUCTURAL DETAILS TO ENSURE PROPER INSTALLATION SEQUENCE
16. THE MASONRY WALLS ARE NOT DESIGNED TO WITHSTAND TEMPORARY CONSTRUCTION LOADS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DESIGN, INSTALL AND MAINTAIN BRACING TO STABILIZE MASONRY WALLS DURING CONSTRUCTION.
17. FIELD TESTING AND INSPECTION OF MASONRY MATERIALS AND MASONRY CONSTRUCTION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

CAST-IN-PLACE CONCRETE

1. ALL CAST-IN-PLACE CONCRETE SHALL CONFORM TO SPECIFICATION SECTION 033000-"CAST-IN-PLACE CONCRETE"
2. LAP ALL WWM/WWR ONE MESH SPACING PLUS A 2" OFFSET AND SECURELY ANCHOR
3. ALL CONTINUOUS REINFORCEMENT SHALL BE LAPPED PER SCHEDULES AND DETAILS
4. REINFORCEMENT SHALL BE SECURELY ANCHORED IN POSITION. THE CONTRACTOR SHALL PROVIDE ADDITIONAL BARS, STANDEES, OR STIRRUPS TO ANCHOR BARS IN THE PROPER POSITION
5. THE DESIGN AND CONSTRUCTION OF FORMS AND SHORES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. QUALIFIED WORKMEN SHALL CONSTANTLY OBSERVE AND ADJUST FORMS AND SHORES AS REQUIRED DURING CONCRETE PLACEMENT.
7. ALL SHORING SHALL REMAIN IN PLACE UNTIL THE SUPPORTED CONCRETE HAS ATTAINED 75% OF THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.
8. CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATIONS OF ALL SLOTS, PIPE SLEEVES, ANCHOR BOLTS, ETC AS REQUIRED FOR ALL TRADES BEFORE CONCRETE IS POURED. THESE ITEMS SHALL BE INSTALLED AND VERIFIED BY THE CONTRACTOR.
9. SEE PLUMBING DRAWINGS FOR FLOOR DRAINS
10. FOR CONCRETE PADS SEE ARCHITECTURAL AND MECHANICAL DRAWINGS
11. FOR EXTERIOR SIDEWALKS AND CURBS SEE CIVIL DRAWINGS
12. FOR WATERPROOFING REQUIREMENTS SEE ARCHITECTURAL DRAWINGS
13. DOWELS SHALL MATCH WALL REINFORCING UNLESS NOTED OTHERWISE.
14. ALL INTERIOR SLABS SHALL HAVE A STEEL TROWELED FINISH UNLESS NOTED OTHERWISE. COORDINATE SLAB FINISH FOR AREAS WITH SPECIALTY FLOOR COVERINGS WITH SPECIFICATIONS AND FINISH SCHEDULE.
15. ALL REINFORCING STEEL SHALL BE DETAILED FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 318-14 AND ACI SP-066 2004.
16. PROVIDE THE FOLLOWING CONCRETE CLEAR COVER OVER REINFORCING (UNO):
    A. FOOTINGS, GRADE BEAMS, TIE BEAMS AND PILE CAPS: 3"
    B. INTERIOR BEAMS AND COLUMNS: 1"
    C. EXTERIOR BEAMS AND COLUMNS: 2"
    D. PEDESTALS: 2"
    E. STRUCTURAL SLABS ON GRADE:
        a. 3" BOTTOM
        b. 3/4" TOP @ INTERIOR SPACES
        c. 1 1/2" TOP AT EXTERIOR SPACES
    F. INTERIOR FORMED ELEVATED SLABS: 3/4" BOTTOM, 3/4" TOP
    G. EXTERIOR FORMED ELEVATED SLABS: 1 1/2" BOTTOM, 1 1/2" TOP
    H. SLABS ON DECK: WWM CENTERED IN COVER OVER DECK FLUTES
    I. SLABS ON GRADE: WWM IN TOP 1/3, REINFORCING STEEL CENTERED
    J. CONCRETE WALLS: 1 3/4" UNO
17. REINFORCEMENT SHALL NOT BE CUT TO ACCOMMODATE THE INSTALLATION OF ANCHORS EMBEDS OR OTHER ITEMS.
18. AT CHANGES OF DIRECTION IN CONTINUOUS CONCRETE ELEMENTS PROVIDE CORNER BARS OF SAME SIZE AND SPACING OF HORIZONTAL REINFORCING.
19. PLACE CONCRETE PER ACI 318-14. USE INTERNAL MECHANICAL VIBRATION FOR ALL CONCRETE. LIMIT MAXIMUM FREE FALL HEIGHT TO 6'-0" AND TAKE PRECAUTIONS TO AVOID CONCRETE SEGREGATION.
20. FIELD TESTING AND INSPECTION OF CONCRETE MATERIALS AND CONCRETE INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

STRUCTURAL STEEL FRAMING

1. ***ALL STRUCTURAL STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 051200-"STRUCTURAL STEEL FRAMING".***
2. ALL STRUCTURAL STEEL FRAMING AND ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 051200-"STRUCTURAL STEEL FRAMING".
3. ***ALL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS) SHALL CONFORM TO SPECIFICATION SECTION 051213-"ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FRAMING".***
4. ALL STRUCTURAL STEEL ERECTION SHALL COMPLY WITH AISC 360-10 AND AISC 303-10.
5. CUTS OR BURNING OF HOLES IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED.
6. THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING OR GUYS TO PROVIDE LATERAL SUPPORT OF THE STRUCTURAL STEEL UNTIL THE PERMANENT LATERAL FORCE RESISTING SYSTEM IS COMPLETED.
7. THE ERECTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE OWNER'S SPECIAL INSPECTOR FOR PRE-INSTALLATION VERIFICATION OF SLIP CRITICAL BOLT TIGHTENING PROCEDURES.
8. FIELD TESTING AND INSPECTION OF STRUCTURAL STEEL MATERIALS AND STRUCTURAL STEEL INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

COLD-FORMED STEEL FRAMING

1. ALL PERFORMANCE BASED COLD-FORMED STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 054100-"ENGINEERED COLD-FORMED STEEL FRAMING".
2. ALL PRESCRIPTIVE BASED COLD-FORMED STEEL FRAMING SHALL CONFORM TO SPECIFICATION SECTION 054000-" COLD-FORMED STEEL FRAMING".
3. THE USE OF THE TERM LIGHT GAUGE SHALL BE EQUIVALENT TO COLD-FORMED
4. WHERE NOT SPECIFICALLY INDICATED ALL FASTENERS SHALL BE MINIMUM OF #10 SELF DRILLING SCREWS.
5. ALL FASTENERS UNDER SHEATHING SHALL HAVE LOW PROFILE HEADS
6. ALL MECHANICAL FASTENERS SHALL HAVE A MINIMUM SPACING AND EDGE DISTANCE OF THREE FASTENER DIAMETERS
7. ALL MECHANICAL FASTENERS SHALL EXTEND THROUGH CONNECTED MEMBERS BY A MINIMUM OF THREE THREADS
8. FRAMER SHALL ENSURE PUNCHOUT ALIGNMENT WHEN USING COLD ROLLED CHANNEL BRIDGING
9. FIELD TESTING AND INSPECTION OF COLD FORMED STEEL FRAMING AND ASSOCIATED INSTALLATION SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

FIELD WELDING

1. ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 051200-"STRUCTURAL STEEL FRAMING" FOR WELDING STRUCTURAL STEEL FRAMING
2. ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 052100-"STEEL JOIST FRAMING" FOR WELDING STEEL JOIST FRAMING
3. ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 053100-"STEEL DECKING" FOR WELDING STEEL DECKING
4. ALL FIELD WELDING SHALL CONFORM TO SPECIFICATION SECTION 054000-"COLD FORMED METAL FRAMING", 054100-"ENGINEERED COLD FORMED METAL FRAMING", AND 054400-"ENGINEERED COLD FORMED METAL TRUSSES" FOR WELDING COLD FORMED MEMBERS
5. ALL FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE-STEEL" AND AWS D1.3, "STRUCTURAL WELDING CODE-SHEET STEEL", LATEST EDITIONS.
6. ALL FIELD WELDING SHALL BE IN STRICT ACCORDANCE WITH WRITTEN WELD PROCEDURE (WPS) FOR THE GIVEN WELD CONDITION
7. REPAIR ALL DAMAGED GALVANIZING, PRIMER OR PAINT ONCE WELDING IS COMPLETE
8. ELECTRODES SHALL BE STORED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
9. ALL PERSONNEL COMPLETING FIELD WELDS SHALL BE CERTIFIED IN ACCORDANCE WITH AWS TO PERFORM THE GIVEN WELD.
10. FIELD TESTING AND INSPECTION OF FIELD WELDING MATERIALS AND FIELD WELDING SHALL BE COMPLETED BY AN INDEPENDENT TESTING AGENCY COMMISSIONED BY THE OWNER, AND SHALL BE IN ACCORDANCE WITH THE SCHEDULE OF SPECIAL INSPECTIONS.

CONTRACTOR NOTES:

- G.C. TO VERIFY EXISTING CONDITIONS MATCH CONDITIONS SHOWN HERE IN.
- THE G.C. IS RESPONSIBLE FOR ALL TEMP. SHORING & BRACING.
- AT LOCATIONS WHERE NEW CONCRETE IS IN CONTACT WITH EXISTING CONCRETE, ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE AND PROVIDE A CHEMICAL BONDING AGENT.
- ALL NEW COLD ROLLED MATERIAL SHALL HAVE A G90 FINISH MINIMUM UNLESS NOTED OTHERWISE SPECIFICALLY. FINISH SHALL BE COMPATIBLE WITH THE FINAL TOP COAT.
- ALL NEW BOLTS & EPOXY BOLTS SHALL BE STAINLESS STEEL.
- ALL NEW FASTENERS, (SCREWS, NAILS, Etc.) SHALL BE STAINLESS STEEL.
- ALL EXISTING METAL BUILDING FRAMES AND GIRTS SHALL BE CLEANED/ SAND BLASTED OF ALL SURFACE RUST AND PREPPED FOR A NEW COATING. GC TO COORDINATE WITH ARCH'L DRAWINGS AND SPEC'S FOR RUST INHIBITOR AND COATING REQUIREMENTS. ALL INHIBITOR/ COATING SHALL BE COMPATIBLE.
- ALL NEW STEEL SHALL BE HOT DIP GALVANIZED, NON-QUENCHED. PROVIDE FINAL TOP COAT TO MATCH FINISH FOR EXISTING STEEL FRAMES.
- ALL ROOF PANELS AND PURLINS ARE TO BE REMOVED AND REPLACED. COORDINATE WITH ARCH'L DRAWINGS AND SPEC'S FOR COATING REQUIREMENTS

STRUCTURAL DESIGN CRITERIA

1. FOUNDATION DESIGN VALUES:
   ALLOWABLE BEARING CAPACITY 1500 PSF
   PER THE GEOTECHNICAL REPORT PREVIOUSLY PREPAIRED FOR THE ADJACENT RESTROOM BUILDING. PROVIDED BY THE OWNER FOR USE ON THIS SITE.
2. GRAVITY LOAD DESIGN VALUES: IBC-2018 / ASCE 7-16
   GROUND FLOOR LIVE LOADS:
   ASSEMBLY 100-PSF
   RESTROOMS 60-PSF
   ROOF LIVE LOADS:
   ROOF 20-PSF
   GROUND SNOW LOADS:
   SNOW 5-PSF
   DEAD LOADS:
   ACTUAL MATERIAL WEIGHTS PER ASCE 7-16, SEE ARCHITECTURAL DRAWINGS FOR ROOF, WALL, AND FLOOR CONSTRUCTION
3. SEISMIC DESIGN VALUES: IBC-2018 / ASCE 7-16
   Ss = 0.474 g
   S1 = 0.157 g
   Sds = 0.449 g
   Sd1 = 0.239 g
   SITE CLASS: "D" (DEFAULT)
   BUILDING CATEGORY: "II"
   IMPORTANCE FACTOR: Ie = 1.0
   SEISMIC DESIGN CATEGORY: "D"
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE (ELF)
   SEISMIC FORCE RESISTING SYSTEM:
   -STEEL ORDINARY MOMENT FRAMES/ BRACED FRAMES/ SPECIAL CMU SHEARWALL
   RESPONSE MODIFICATION FACTOR: R = 3.25
   DEFLECTION AMPLIFICATION FACTOR: Cd = 3.0
   SYSTEM OVERSTRENGTH FACTOR: OMEGA = 3.0
   ALLOWABLE INTERSTORY DRIFT: 0.02 Hsx
4. WIND LOAD DESIGN VALUES: IBC-2018 / ASCE 7-16
   V = 147 mph (3-sec gust)
   BUILDING CATEGORY: "II"
   IMPORTANCE FACTOR: I = 1.0
   EXPOSURE CATEGORY: "D"
   ENCLOSURE CLASSIFICATION: OPEN
   DIRECTIONAL FACTOR: Kd = 0.85
   TOPOGRAPHIC FACTOR: Kzt = 1.0
   VELOCITY EXPOSURE COEFFICIENT: Kz = 1.102
   VELOCITY PRESSURE: q = 51.81 psf (ULT)
   q = 31.08 psf (ASD)
   INTERNAL PRESSURE COEFFICIENT: GCpi = +/- 0.18
   ALLOWABLE INTERSTORY DRIFT: 0.0025 Hsx

Components and Cladding Wind Pressures (Unfactored/Ultimate): Open Pitched Roofs

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	<a^2	1	22.02	-70.46
ROOF FIELD	>a^2, <4.0a^2	1	22.02	-70.46
ROOF FIELD	>4.0a^2	1	22.02	-70.46
ROOF INTERMDIATE	<a^2	2	35.23	-105.69
ROOF INTERMDIATE	>a^2, <4.0a^2	2	35.23	-105.69
ROOF INTERMDIATE	>4.0a^2	2	22.02	-70.46
ROOF OUTER EDGE	<a^2	3	44.04	-140.92
ROOF OUTER EDGE	>a^2, <4.0a^2	3	35.23	-105.69

Components and Cladding Wind Pressures (Factored/ASD): Open Pitched Roofs

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
ROOF FIELD	<a^2	1	13.21	-42.27
ROOF FIELD	>a^2, <4.0a^2	1	13.21	-42.27
ROOF FIELD	>4.0a^2	1	13.21	-42.27
ROOF INTERMDIATE	<a^2	2	21.13	-63.40
ROOF INTERMDIATE	>a^2, <4.0a^2	2	21.13	-63.40
ROOF INTERMDIATE	>4.0a^2	2	13.21	-42.27
ROOF OUTER EDGE	<a^2	3	26.42	-84.54
ROOF OUTER EDGE	>a^2, <4.0a^2	3	21.13	-63.40
ROOF OUTER EDGE	>4.0a^2	3	13.21	-42.27

Components and Cladding Wind Pressures (Unfactored/Ultimate): Walls

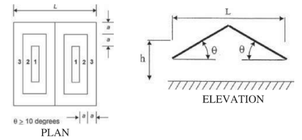
(Excludes Internal Pressures)

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
WALL FIELD	10	4	46.63	-51.29
WALL FIELD	20	4	44.14	-48.81
WALL FIELD	50	4	40.88	-45.54
WALL FIELD	100	4	38.39	-43.05
WALL EDGE	10	5	46.63	-65.28
WALL EDGE	20	5	44.14	-60.31
WALL EDGE	50	5	40.88	-53.78
WALL EDGE	100	5	38.39	-48.81

Components and Cladding Wind Pressures (Factored/ASD): Walls

(Excludes Internal Pressures)

DESCRIPTION	AREA	ZONE	MAX P	MIN P
	SF		PSF	PSF
WALL FIELD	10	4	27.97	-30.77
WALL FIELD	20	4	26.48	-29.28
WALL FIELD	50	4	24.52	-27.32
WALL FIELD	100	4	23.03	-25.83
WALL EDGE	10	5	27.97	-39.16
WALL EDGE	20	5	26.48	-36.18
WALL EDGE	50	5	24.52	-32.26
WALL EDGE	100	5	23.03	-29.28



OPEN PITCHED ROOF ZONE DIAGRAM

a=6 ft.

SHEET LIST	
SHEET NUMBER	SHEET NAME
S001	GENERAL NOTES
S100	DEMO PLAN
S101	FOUNDATION PLAN
S102	SLAB AND WALL PLAN
S103	ROOF FRAMING PLAN
S201	ELEVATIONS
S202	ELEVATIONS
S601	TYPICAL FOUNDATION AND SLAB DETAILS
S611	TYPICAL MASONRY DETAILS
S612	TYPICAL MASONRY DETAILS
S621	TYPICAL STEEL DETAILS
S701	SECTIONS AND DETAILS
S702	SECTIONS AND DETAILS
S703	SECTIONS AND DETAILS

SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
ADCENGINEERING.COM

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION
PROJECT #1222

310 GREENWICH DRIVE
GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

GENERAL NOTES

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY	JMJ/EH
CHECKED BY	CJG
DATE	12/19/2022
SCALE	As indicated

S001

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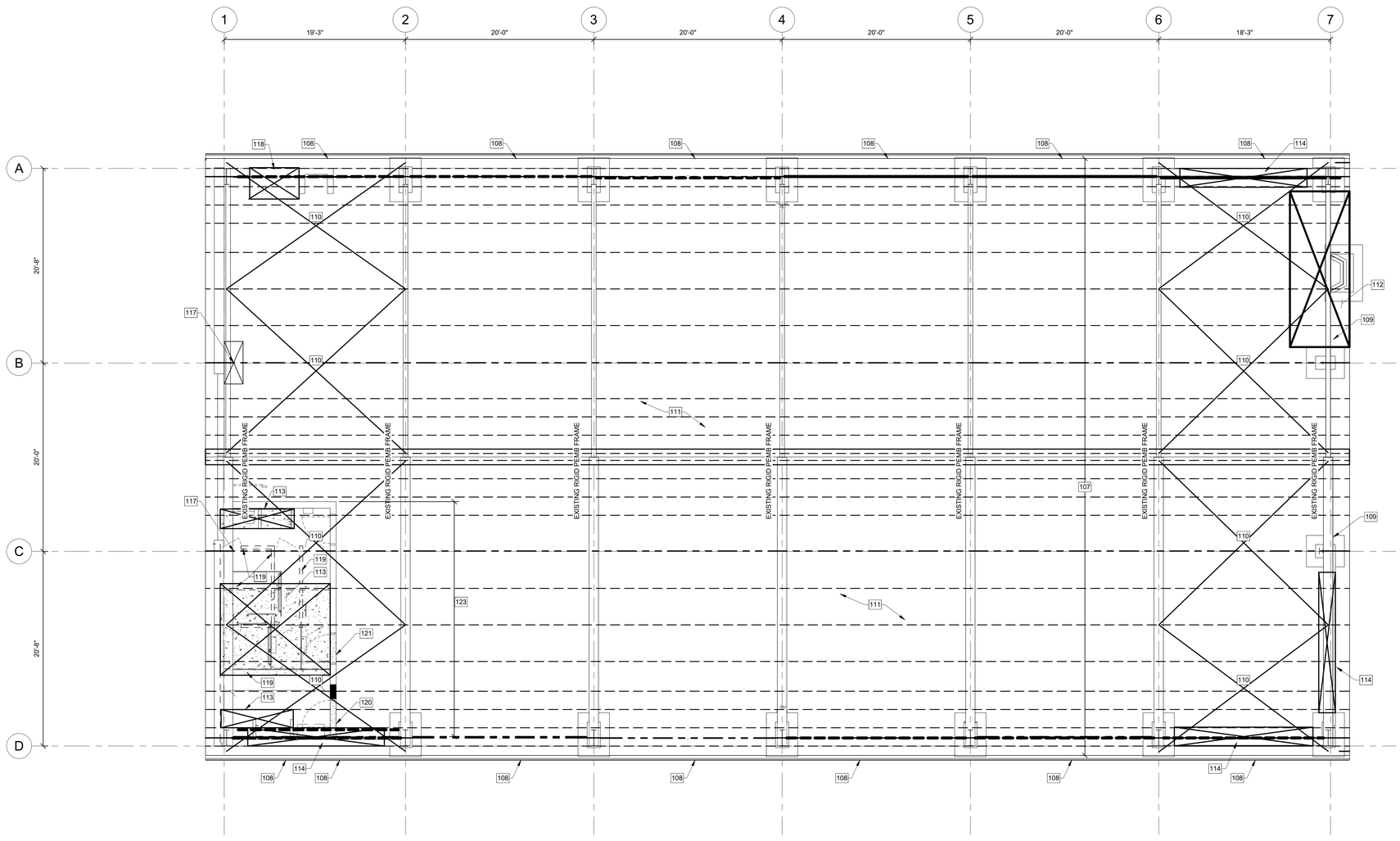
KEYED NOTES (THIS SHEET ONLY)

107 DEMO ALL PURLINS.
108 DEMO CMU WALLS.
109 DEMO METAL PANEL WALLS.
110 DEMO EXISTING BRACING.
111 DEMO EXISTING ROOFING.
112 DEMO EXISTING SLAB FOR NEW FIREPLACE.
113 DEMO EXISTING SLAB FOR NEW RESTROOM FIXTURE RELOCATION.
114 DEMO EXISTING FOOTING FOR NEW FOOTING.
117 DEMO EXISTING SLAB AT NEW COLUMN.
118 DEMO EXISTING SLAB AS REQUIRED FOR NEW SINK PLUMBING.
119 DEMO EXISTING CMU WALLS.
120 DEMO & PARTIAL INFILL EXISTING OPENING.
121 INFILL EXISTING OPENING.
123 2x CEILING FRAMING TO REMAIN OVER RESTROOMS.

GENERAL NOTE:

- COORDINATE W/ ARCH'L DRAWINGS FOR FLOOD VENT REQUIREMENTS.



1 DEMO PLAN
3/16" = 1'-0"

SEALS

NOTES:

ADC ENGINEERING
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CONSTRUCTION DOCUMENTS

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CHARLESTON, SC 29412
843.577.6073

DEMO PLAN

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	
CHECKED BY CJG	S100
DATE 12/19/2022	
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CONTINUOUS FOOTING SCHEDULE				
FOOTING TYPE	WIDTH	THICKNESS	LONGITUDINAL REINFORCING	TRANSVERSE REINFORCING
F10	1'-0"	1'-0"	(4)-#4'S	#5'S @ 12" O.C.
F20	2'-0"	1'-0"	(3)-#4'S	#5'S @ 48" O.C.
F30	3'-0"	1'-0"	(4)-#5'S	#4'S @ 48" O.C.
TS2.0	2'-0"	1'-0"	(3)-#4'S	#4'S @ 48" O.C.

DRAWING LEGEND

= NEW CONCRETE

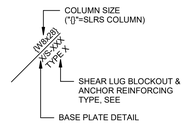
= EXISTING FTG/CONCRETE

SPREAD FOOTING SCHEDULE					
FOOTING TYPE	LENGTH	WIDTH	THICKNESS	BOTTOM REINFORCING	TOP REINFORCING
FMT	16'-6"	10'-0"	16"	#5'S @ 9" O.C. EW	#5'S @ 9" O.C. EW

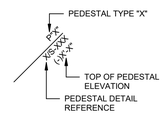
GENERAL NOTES (THIS SHEET ONLY)

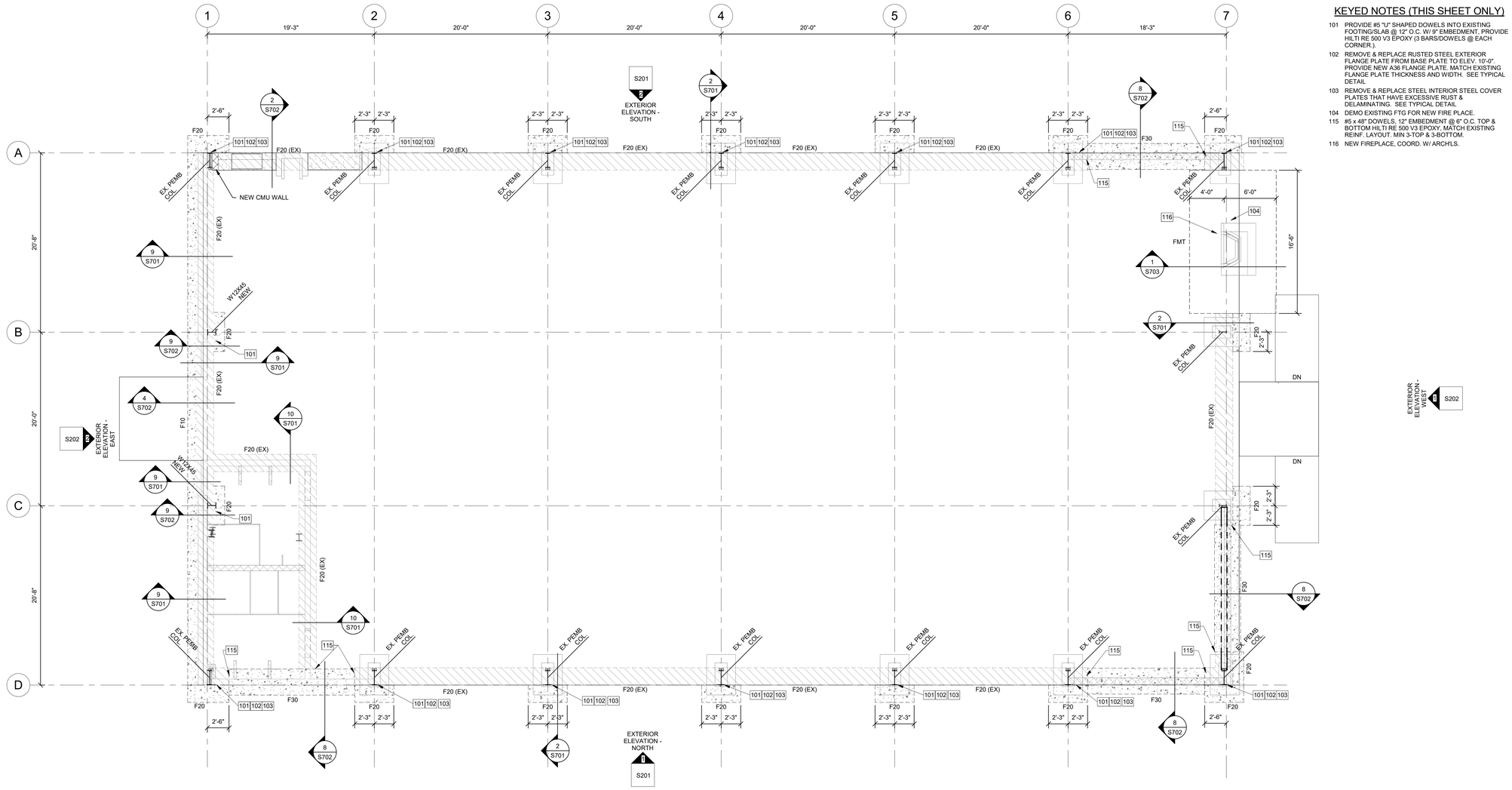
- TOP OF FOOTING = MATCH EXISTING UNO
- SF = STEP FOOTING, SEE
- CENTER ALL SPREAD FOOTINGS BENEATH COLUMNS/PIERS/PILASTERS-UNO
- STRIP FOOTING REINFORCING SHALL BE CONTINUOUS THROUGH SPREAD FOOTINGS-UNO
- PROVIDE CORNER BARS AT ALL STRIP FOOTING CHANGES IN DIRECTION
- EXTEND STRIP FOOTINGS A MINIMUM OF 8" PAST END OF WALL AT FOOTING TERMINATIONS
- SEE TYPICAL DETAILS FOR CONTINUOUS FOOTING CONSTRUCTION JOINT DETAIL
- SEE TYPICAL DETAILS FOR PIPING/CONDUIT BELOW FOOTINGS
- SEE TYPICAL DETAILS FOR EXCAVATION LIMITS ADJACENT TO FOOTINGS
- SEE ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS OF NON-LOAD BEARING INTERIOR PARTITIONS

STEEL COLUMN LEGEND



PEDESTAL LEGEND





1 FOUNDATION PLAN
3/16" = 1'-0"

KEYED NOTES (THIS SHEET ONLY)

101 PROVIDE #5 "U" SHAPED DOWELS INTO EXISTING FOOTING/SLAB @ 12" O.C. W/ 9" EMBEDMENT, PROVIDE HILTI RE 500 V3 EPOXY (3 BARS/DOWELS @ EACH CORNER.).

102 REMOVE & REPLACE RUSTED STEEL EXTERIOR FLANGE PLATE FROM BASE PLATE TO ELEV. 10'-0". PROVIDE NEW A36 FLANGE PLATE. MATCH EXISTING FLANGE PLATE THICKNESS AND WIDTH. SEE TYPICAL DETAIL

103 REMOVE & REPLACE STEEL INTERIOR STEEL COVER PLATES THAT HAVE EXCESSIVE RUST & DELAMINATING. SEE TYPICAL DETAIL

104 DEMO EXISTING FTG FOR NEW FIRE PLACE.

115 #5 x 48" DOWELS, 12" EMBEDMENT @ 6" O.C. TOP & BOTTOM HILTI RE 500 V3 EPOXY, MATCH EXISTING REINF. LAYOUT. MIN 3-TOP & 3-BOTTOM.

116 NEW FIREPLACE, COORD. W/ ARCH'LS.

ADC ENGINEERING INC. NO. 00253
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA NO. 28195 REGISTERED PROFESSIONAL ENGINEER CHRISTOPHER J. GILGER
12-19-22

SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
ADCENGINEERING.COM

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION PROJECT #1222

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GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

FOUNDATION PLAN

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY	JMJ/EH
CHECKED BY	CJG
DATE	12/19/2022
SCALE	As indicated

S101

12/28/2022 12:02:04 PM

DRAWING LEGEND

= NEW CONCRETE

= EXISTING FTG/CONCRETE

KEYED NOTES (THIS SHEET ONLY)

105 EXTERIOR SLAB, SEE CIVIL & ARCH'L DRWG'S FOR EXTENT SLOPES & ELEV.
201 NEW 8" CMU COLUMN WRAP. 8" CMU, #5's @ 16" O.C., GROUT ALL CELLS SOLID, 3000-PSI GROUT.
202 NEW HSS 12x8x1/4", TOS=10'- 0".
203 PROVIDE NEW #5 REINFORCING INTO EXISTING CMU @ 24" O.C., COORDINATE W/ CMU RETROFIT DETAIL.
205 NEW 8" MASONRY FIRE PLACE & CHIMNEY. PROVIDE #5's @ 8" O.C. 3000-PSI GROUT.
206 ROUGHEN SURFACE TO 1/4" AMPLITUDE & PROVIDE CHEMICAL BONDING AGENT.
207 NEW 4" 3000-PSI SLAB ON GRADE. SEE GENERAL NOTE.
208 SAW CUT NEW BOND BEAMS INTO EXISTING CMU WALL @ 48" O.C. VERTICALLY.
209 SEE ARCH'LS FOR FLOOD VENT LOCATIONS & REQUIREMENTS.
210 PROVIDE NOTE 203, OR 204.
211 REUSE EXISTING OPENING.
212 PROVIDE NEW INFILL 8" CMU. SEE TYP. DETAIL.
213 PROVIDE NEW OPENING IN CMU.
214 NEW HSS 12x8x1/4, TOS = 12'-8".
215 G.C. TO COORD. W/ ARCH'LS & PLUMBING DRAWINGS FOR ADDITIONAL SLABS TO BE CUT.
216 COORD. W/ CIVIL & ARCH'LS DRAWINGS FOR ADDITIONAL FILL REQUIREMENTS & EXTENT & SLOPE OF NEW EXTERIOR SLABS.
217 REINF. 2 ADJACENT CELLS @ END OF WALL. DRILL & EPOXY INTO EXISTING FOOTING.
218 REINF. 2 ADJACENT CELLS NEAR END OF WALL. GROUT INTO NEW FOOTING.

Brick Lintel Schedule

Maximum Clear Span - U.N.O.	Size (LLH, TYP.)	
	CMU	
0'-0" TO 6'-0"	BENT PLATE 8'x NOTE 1 x3/8"	
6'-1" TO 9'-0"	BENT PLATE 8'x NOTE 1 x3/8"	
> 9'-0"	SEE PLAN NOTES AND SECTIONS	

NOTES:
-BEAR ALL BRICK LINTELS MINIMUM OF 6" EACH END.
-INSTALL LINTELS WITH LONG LEG HORIZONTAL
-ALL LINTELS SHALL BE HOT DIP GALVANIZED **(DO NOT QUENCH)**, AND PREPARED TO RECEIVED FIELD PAINT IN ACCORDANCE WITH SPECIFICATIONS.
-SEE ARCH DRAWINGS FOR LINTEL LOCATIONS AND OPENING DIMENSIONS.
-PROVIDE LOOSE LINTELS AT ALL OPENINGS IN BRICK VENEER UNLESS SPECIFICALLY DETAILED OTHERWISE.
-MITER BEARING ENDS, AND FIELD WELD LOOSE LINTELS AT INTERIOR CORNERS WHERE BOTH ENDS OF LINTEL DO NOT HAVE THE REQUIRED BEARING.
-FOR OPENINGS LARGER THAN 9'-0" PROVIDE STEEL BEAM WITH BRICK LINTEL PLATE PER TYP. DETAILS.
-INSTALL LINTEL WITH TOE OF ANGLE HELD BACK MIN. 1/4" AND MAXIMUM 3/4" FROM FACE OF VENEER UNO.
-THE G.C. SHALL FIELD VERIFY AND PROVIDE ALL FACE OF BRICK OFFSETS FROM BACK-UP WALL PRIOR TO LINTEL FABRICATION
-FASTEN LINTELS TO CMU W/ 3/4"ø x 6 1/4" EMBED. EPOXY BOLTS @ 24" O.C. & EACH END.
NOTE 1:
THE HORIZONTAL LEG OF THE BENT PLATE IS EQUAL TO DIMENSION FROM THE OUTSIDE FACE OF CMU OR SHEATHING, TO THE OUTSIDE FACE OF BRICK VENEER MINUS 1/2". COORDINATE WITH ARCH'L DRAWINGS .

GENERAL NOTES (THIS SHEET ONLY)

- TYPICAL SLAB ON GRADE CONSTRUCTION IS 4" SLAB W/ ONE LAYER OF 6x6~W1.4xW1.4 WWR ON VAPOR RETARDER ON 4" CAPILLARY BARRIER ON COMPACTED SUBGRADE. SEE SPECS FOR FINISH REQUIREMENTS. TOP OF SLAB = 0'-0" UNO
- SEE CONTINUOUS FOOTING SCHEDULE ON SHEET S101 FOR TS REINF.

- INDICATES SLAB ON GRADE CONTROL/CONSTRUCTION JOINT, SEE TYPICAL DETAILS

R=X" • DENOTES SLAB RECESS OF "X" INCHES, COORDINATE EXTENT OF RECESS WITH ARCHITECTURAL DRAWINGS.

- FD = FLOOR DRAIN

GENERAL NOTES (THIS SHEET ONLY)

- TOM = TOP OF WALL ELEVATION
- ALL 6" CMU WALLS SHALL BEAR ON SLAB ON GRADE PER TYPICAL DETAIL UNO
- ALL 6" CMU WALLS SHALL BE BRACED TO BACKUP WALL PER TYPICAL DETAIL UNO
- BOL = ELEVATION AT BOTTOM OF CMU LINTEL
- BOS = ELEVATION AT BOTTOM OF STEEL LINTEL
- TOS = ELEVATION AT TOP OF STEEL LINTEL
- SEE ARCHITECTURAL DRAWINGS FOR MASONRY VENEER CONTROL JOINTS

W8X • INDICATES CMU WALL TYPE "X" (NUMBER INDICATES NOMINAL THICKNESS), SEE PLANS FOR CMU WALL SCHEDULE

? • INDICATES CMU LINTEL TYPE "?", SEE PLANS

MJ • INDICATES LOCATION OF MASONRY CONTROL JOINT (CONTINUOUS TO TOP OF WALL), SEE TYPICAL DETAIL

(X) • INDICATES CMU PIER FOR SUPPORT OF BEAM BEARING ABOVE. CENTER PIERS BELOW BEAM CENTERLINES OR AS CLOSE AS POSSIBLE AT WALL CORNERS/TERMINATIONS/OPENINGS. "(X)" INDICATES NUMBER OF CELLS TO BE GROUTED AND REINFORCED W/ (1)-BAR EACH CELL UNO OF SIZE MATCHING TYPICAL WALL REINFORCING BEYOND. WHERE SPECIFICALLY INDICATED ON PLANS, THIS SHALL GOVERN OVER ALL OTHER TYPICAL DETAILS.

CMU WALL SCHEDULE

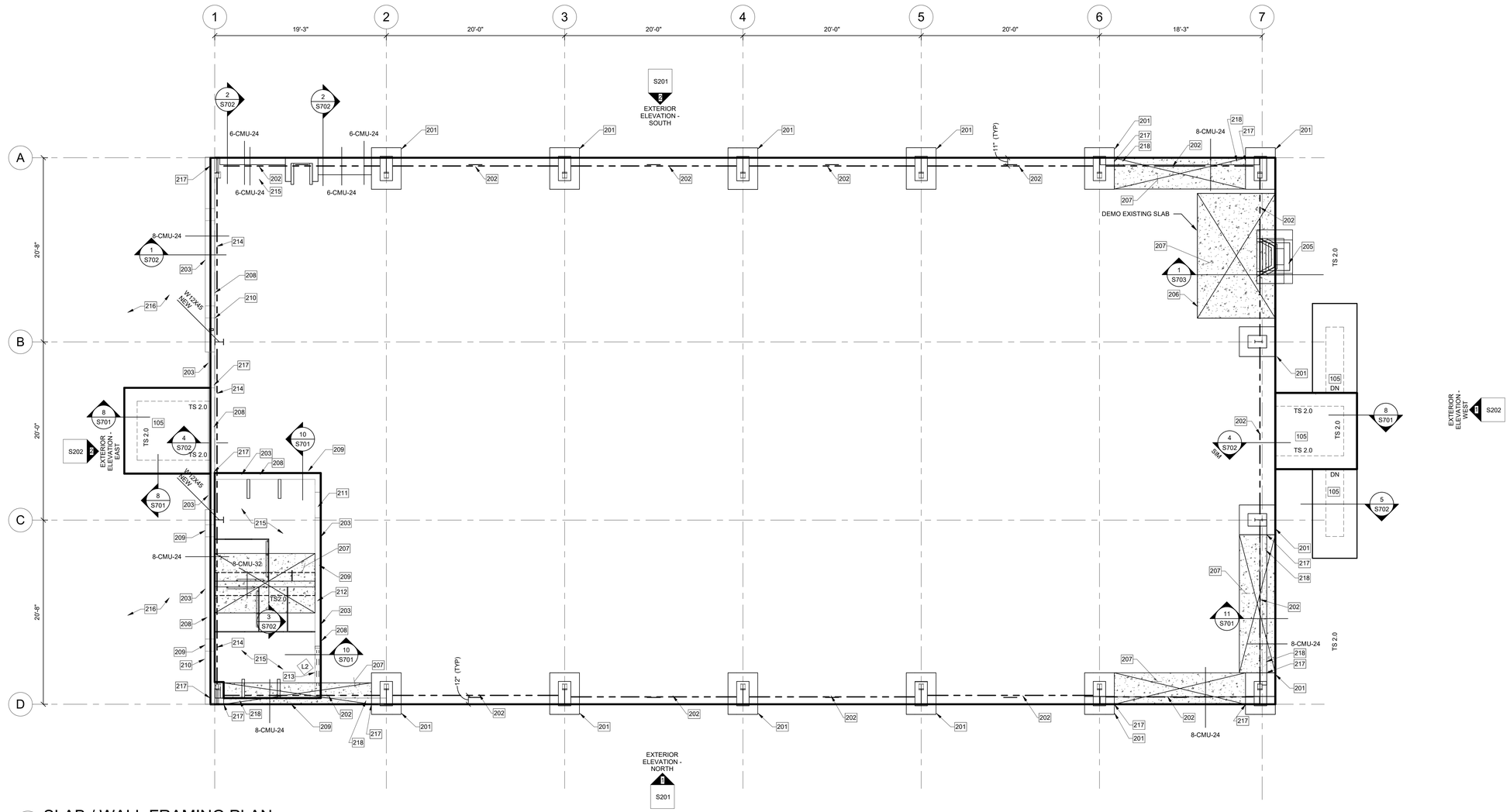
MARK	THICKNESS (NOMINAL)	VERTICAL REINFORCEMENT	BOND BEAM REINFORCING	TOP/ BOND BEAM ELEVATIONS
6-CMU-24	6"	#5'S @ 24" O.C.	(1)-#4'S	TOM
8-CMU-16	8"	#5'S @ 16" O.C.	(2)-#4'S	48" O.C. & TOM
8-CMU-24	8"	#5'S @ 24" O.C.	(2)-#4'S	48" O.C. & TOM
8-CMU-32	8"	#5'S @ 32" O.C.	(2)-#4'S	48" O.C. & TOM

CMU WALL SCHEDULE GENERAL NOTES:
- SEE PLAN AND TYPICAL DETAILS FOR ADDITIONAL REINFORCING AND SPECIFIC LOCATIONS
- ALL VERTICAL REINFORCING SHALL BE LOCATED AND ANCHORED USING PREFABRICATED BAR POSITIONERS
- SEE SHEET S-200'S FOR TYPICAL BOND BEAM REINFORCING ARRANGEMENT AT INTERSECTIONS, MASONRY CONTROL JOINTS, CORNERS, AND TERMINATIONS
- SEE SHEET S-200'S FOR TYPICAL VERTICAL REINFORCING AT WALL TERMINATIONS, INTERSECTIONS, AND CORNERS.

CMU LINTEL SCHEDULE

MARK	# OF COURSES	REINFORCEMENT (PER COURSE)	ALLOWABLE SPAN (NOTE #5)
L1	(1)	(2)-#5'S	< 2'-0"
L2	(2)	(2)-#5'S	2'-0" TO 6'-0"

NOTES:
1. SEE S/S-210 FOR TYPICAL CMU LINTEL CONSTRUCTION.
2. SEE2/S-210 FOR TYPICAL CMU OPENING CONSTRUCTION.
3. WHERE LINTEL IS NOTED AS "CONT." IT IS CONTINUOUS ACROSS ADJACENT OPENINGS.
4. WHERE LINTEL IS NOTED AS "ABOVE" IT REFERS TO A SECOND LINTEL ABOVE A HIGHER OPENING.
5. ALLOWABLE SPANS ARE FOR MISCELLANEOUS OPENINGS NOT SPECIFICALLY INDICATED ON PLAN. TYPE "L1" LINTELS SHALL BE LOCATED A MINIMUM OF (3)-COURSES BELOW FLOOR ELEVATION OR ROOF JOIST BEARING ELEVATION. TYPE "L2" LINTELS SHALL BE LOCATED A MINIMUM OF 3'-4" BELOW FLOOR ELEVATION OR ROOF JOIST BEARING ELEVATION.
6. DO NOT LOCATE LINTEL WITHIN 8" FROM END OF BEAM BEARING PLATE OR 1'-4" EACH SIDE OF CENTERLINE OF BEAM BEARING ABOVE UNLESS SPECIFICALLY NOTED OTHERWISE.
7. PROVIDE MIN. 1'-4" CLEAR BETWEEN ADJACENT OPENINGS UNO.



5 SLAB / WALL FRAMING PLAN
3/16" = 1'-0"

ADC ENGINEERING INC. NO. 00253
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA REGISTERED NO. 28195 PROFESSIONAL ENGINEER CHRISTOPHER J. GILGER
12-19-22
SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
ADCENGINEERING.COM

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION
PROJECT #1222

310 GREENWICH DRIVE
GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

SLAB AND WALL PLAN

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY	JMJ/EH
CHECKED BY	CJG
DATE	12/19/2022
SCALE	As indicated

S102

12/28/2022 12:02:06 PM

KEYED NOTES (THIS SHEET ONLY)

501 NEW 8"x 3 1/2" 12 GA "Z" PURLINS @ 48" O/C MAX. PROVIDE NEW DRILL HOLES AS NEEDED. PROVIDE LONG LAP SPLICE 3 SPAN. MIN

502 NEW 3/4" DIA A36 THRD'D ROD "X" BRACING-HDG.

504 NEW HSS 8x8x1/4 COMPRESSION STRUT BELOW.

505 NEW B.A.FAN G.C. TO COORDINATE SUPPORT REQUIREMENTS W/ SUPPLIER. ALL SEISMIC BRACING SHALL BE PER THE SUPPLIER.

506 NEW 8"x 3 1/2"x 12GA Cee PURLIN.

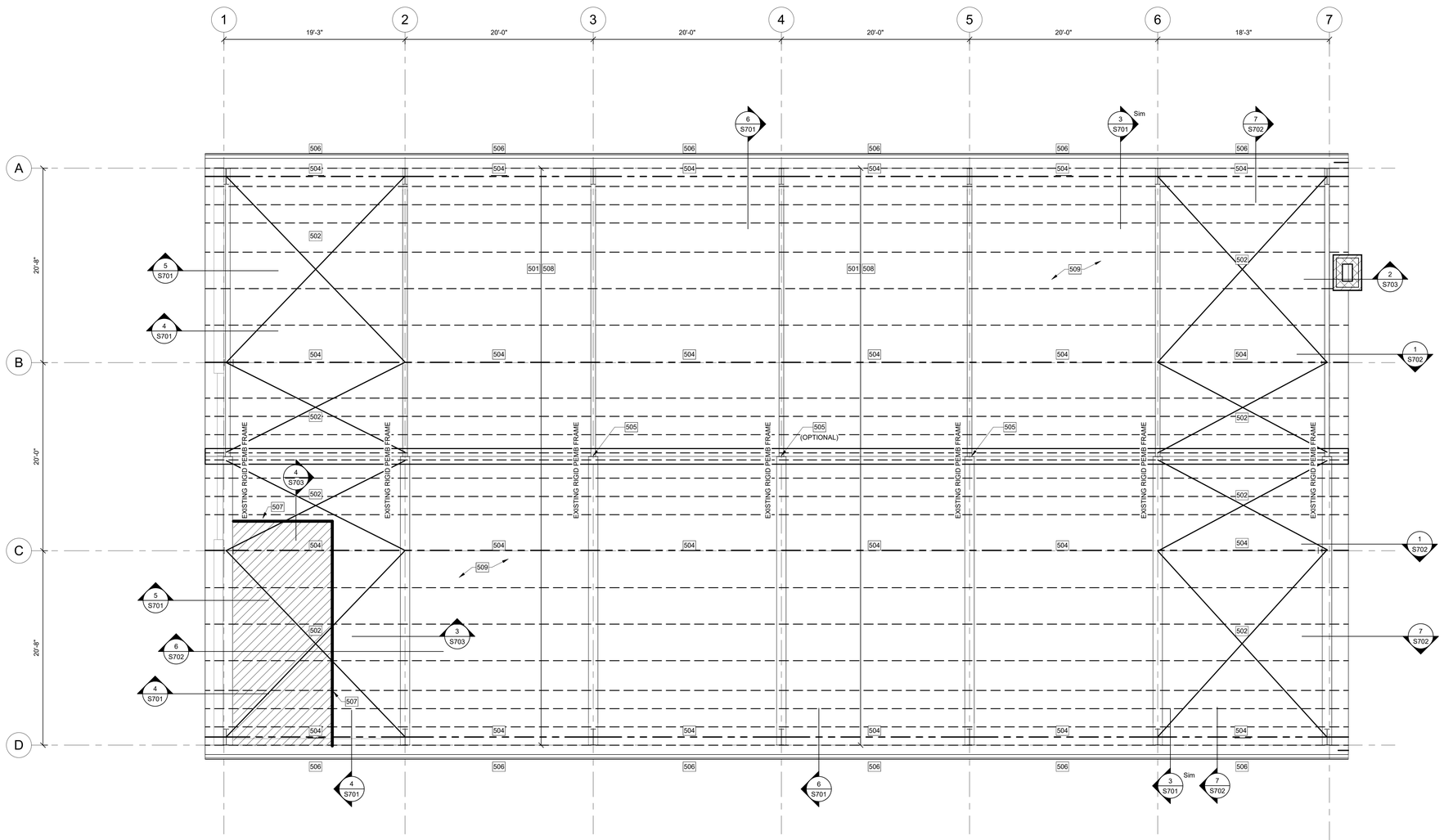
507 NEW TD 2x6 STUD FRAMING @ 24" O.C. SEE ARCH'LS FOR TD 1x SCREENING.

508 NEW PURLINS SHALL BE SIZED & SPACED PER THE PURLIN SUPPLIER / DESIGNER. PROVIDE SHOP DRAWINGS INCLUDING LAYOUT, ATTACHMENT FOR REVIEW AND APPROVAL. SEE S001 FOR DESIGN CRITERIA. SHOP DRAWINGS SHALL BE SIGNED & SEALED.

509 NEW TYPE R PROFILE ROOF DECKING. COORD. W/ ARCH'LS. PROVIDE 3 SPAN MIN CONDITION. PROVIDE SHOP DRAWINGS INCLUDING PANEL TYPE, LAYOUT, ATTACHMENT FOR REVIEW & APPROVAL. SHOP DRAWINGS SHALL BE SIGNED & SEALED.

GENERAL NOTE:
ALL EXISTING METAL BUILDING FRAMES AND GIRTS SHALL BE CLEANED/ SAND BLASTED OF ALL SURFACE RUST AND PREPPED FOR A NEW COATING. GC TO COORDINATE WITH ARCH'L DRAWINGS AND SPEC'S FOR RUST INHIBITOR AND COATING REQUIREMENTS. ALL INHIBITOR/ COATING SHALL BE COMPATIBLE.

ALL ROOF PANELS AND PURLINS ARE TO BE REMOVED AND REPLACED. COORDINATE WITH ARCH'L DRAWINGS AND SPEC'S FOR COATING REQUIREMENTS



1 ROOF FRAMING PLAN
3/16" = 1'-0"

SOUTH CAROLINA ADC ENGINEERING INC. NO. 00253 CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA REGISTERED PROFESSIONAL ENGINEER NO. 28195 CHRISTOPHER J. GILGER 12-19-22

SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
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CONSTRUCTION DOCUMENTS

REVISIONS

BOBBY ALFORD PAVILION
PROJECT #1222

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1643 MEANS STREET
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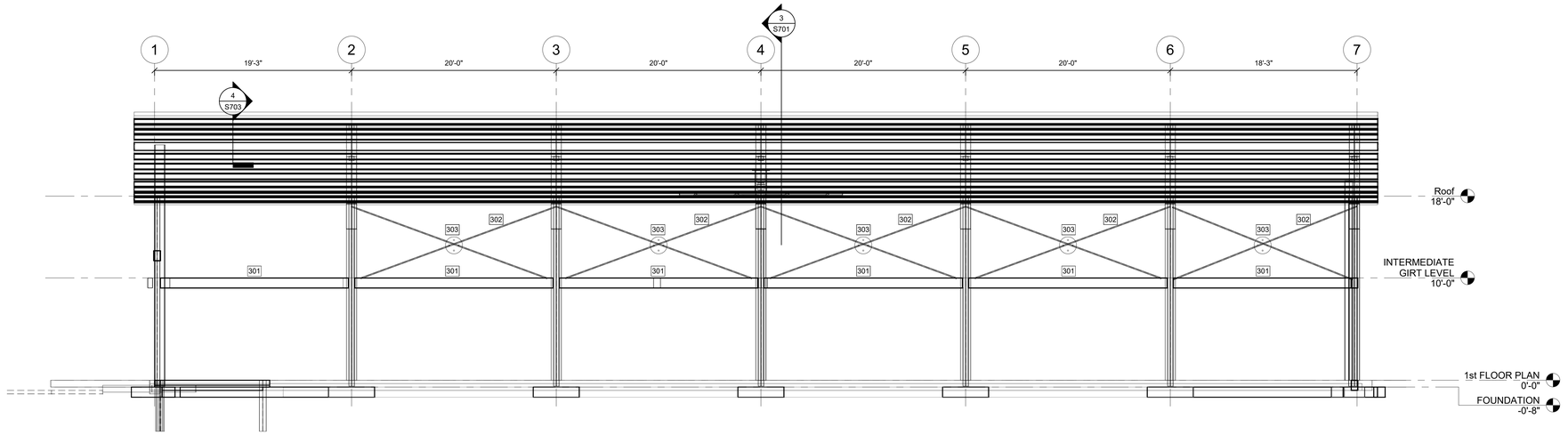
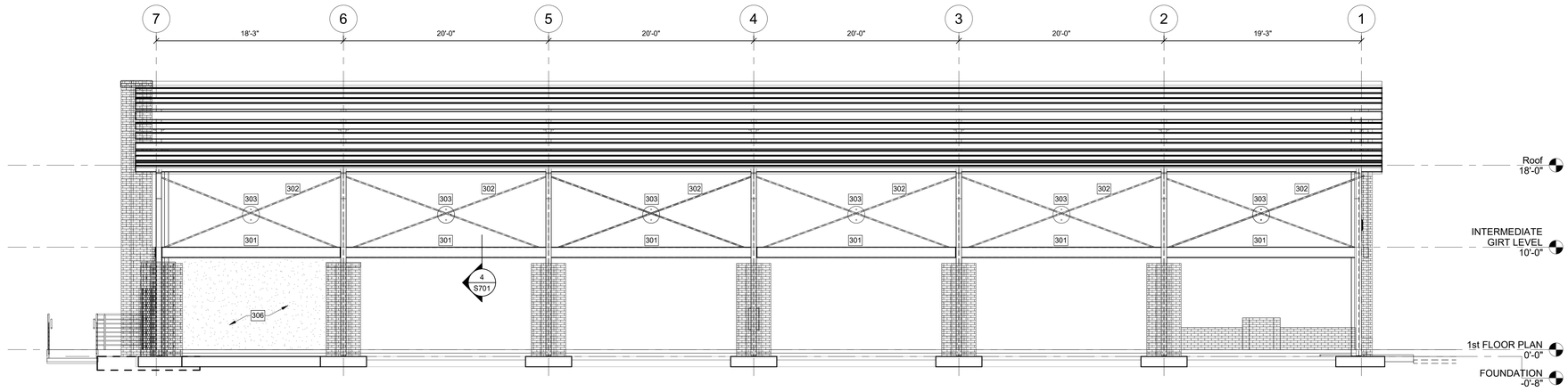
ROOF FRAMING PLAN

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S103
CHECKED BY CJG	
DATE 12/19/2022	
SCALE As indicated	12/28/2022 12:02:07 PM



1 EXTERIOR ELEVATION - NORTH
3/16" = 1'-0"



2 EXTERIOR ELEVATION - SOUTH
3/16" = 1'-0"

KEYED NOTES (THIS SHEET ONLY)

301 NEW HSS 12x8x1/4
302 3/4" DIA A36 THRD'D ROD "X" BRACING #4 CLEVIS, THREAD OPPOSITE SO NO TURN BUCKLE IS REQUIRED.
303 1/2" THICK STEEL PLATE, SEE ARCH'LS FOR RADIUS.
306 NEW CMU WALL.

SEALS

NOTES:

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PAVILION
PROJECT #1222

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GEORGETOWN, SC 29442

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1643 MEANS STREET
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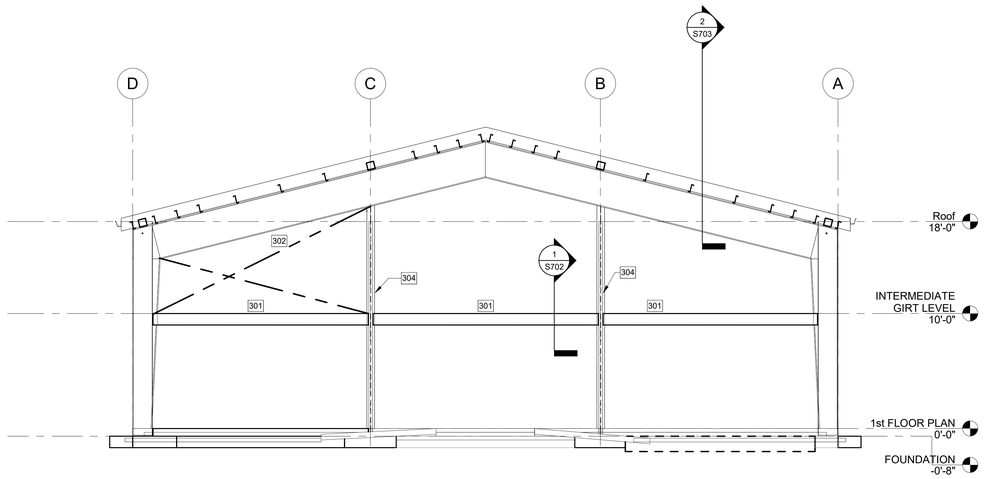
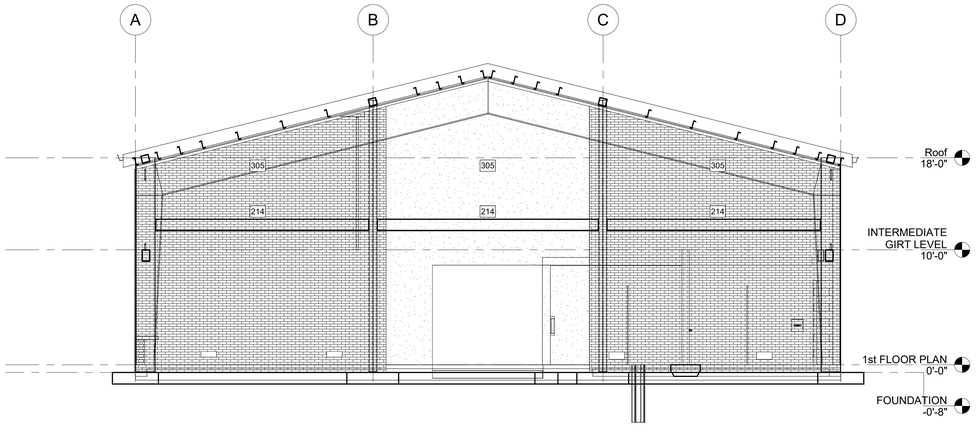
ELEVATIONS

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S201
CHECKED BY CJG	
DATE 12/19/2022	
SCALE 3/16" = 1'-0"	12/28/2022 12:02:08 PM



1 EXTERIOR ELEVATION - WEST
3/16" = 1'-0"



2 EXTERIOR ELEVATION - EAST
3/16" = 1'-0"

KEYED NOTES (THIS SHEET ONLY)

214 NEW HSS 12x8x1/4, TOS = 12'-8".
301 NEW HSS 12x8x1/4
302 3/4" DIA A36 THRD'D ROD "X" BRACING #4 CLEVIS, THREAD OPPOSITE SO NO TURN BUCKLE IS REQUIRED.
304 EXISTING GIRT COLUMN.
305 NEW CMU WALL OR EXISTING CMU WALL W/ REINF. RETROFITS.

SEALS

NOTES:

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1226 YEAMANS HALL ROAD
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REVISIONS		

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PAVILION
PROJECT #1222

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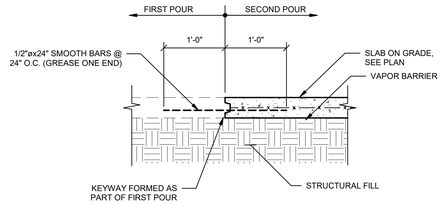
GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

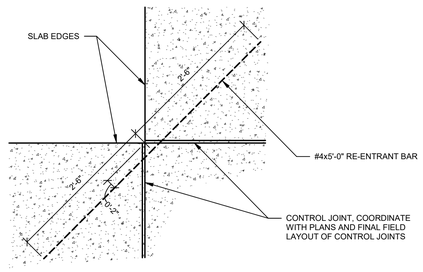
ELEVATIONS

SHEET NAME

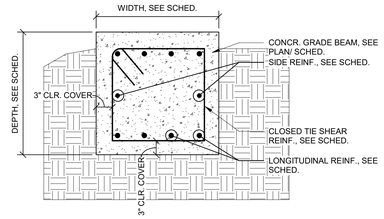
PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S202
CHECKED BY CJG	
DATE 12/19/2022	
SCALE 3/16" = 1'-0"	12/28/2022 12:02:08 PM



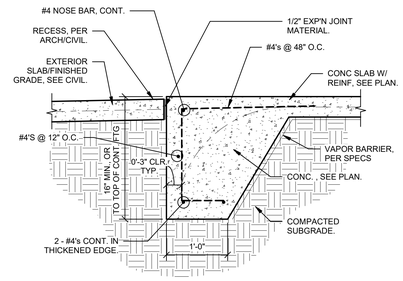
1 SLAB - TYP. SLAB-ON-GRADE CONSTRUCTION JOINT
1" = 1'-0"



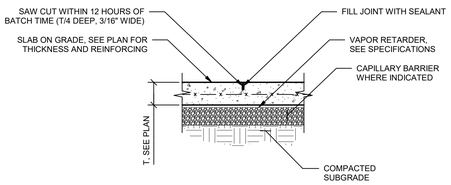
2 SLAB - TYP. SLAB RE-ENTRANT CORNER
1" = 1'-0"



3 FND - TYP. GRADE BEAM DETAIL
1" = 1'-0"

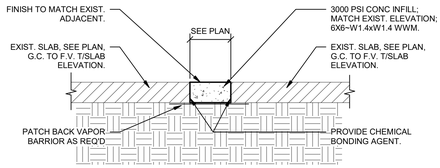


4 SLAB - TYP. EDGE OF SLAB DETAIL FOR EXTERIOR SLAB EDGES
1" = 1'-0"



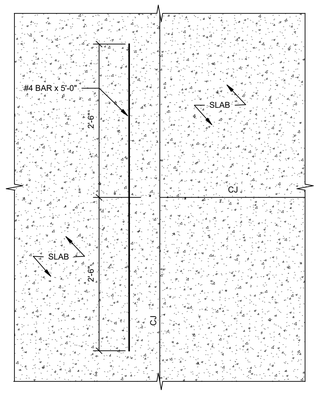
NOTES:
1. PROVIDE JOINTS AS INDICATED ON PLANS
2. PROVIDE JOINTS SO THAT NO ONE SIDE OF A JOINTED SLAB SEGMENT IS MORE THAN 1-1/2 TIMES THE PERPENDICULAR SIDE
3. PROVIDE JOINTS AT ALL DOORWAYS AND RE-ENTRANT CORNERS
4. AT CONTRACTOR'S OPTION JOINTS MAY BE HAND TOOLED

5 SLAB - TYP. SLAB-ON-GRADE CONTROL JOINT (CJ)
1" = 1'-0"

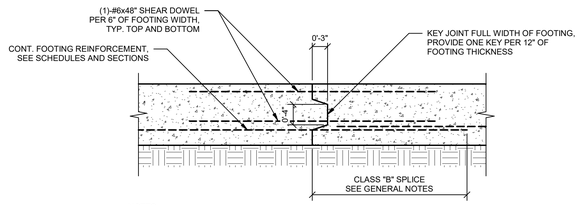


TYPICAL FLOOR DRAIN SLAB INFILL DETAIL

6 SLAB - TYP. SLAB PATCH DETAIL
1" = 1'-0"



7 SLAB - TYP. CJ DYING INTO CJ
1" = 1'-0"

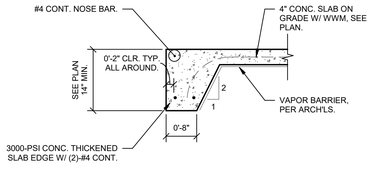


NOTES:
1. DO NOT LOCATE CONSTRUCTION JOINTS IN COLUMN FOOTINGS OR ENLARGED SECTIONS OF CONTINUOUS STRIP FOOTINGS.
2. EXTEND REINFORCING FROM FIRST POUR THRU BULKHEAD ADEQUATE DISTANCE TO ENSURE A CLASS "B" SPLICE WITH REINFORCING FOR SECOND POUR.

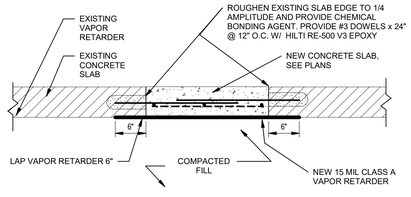
8 FND - TYP. FOOTING CONSTRUCTION JOINT
1" = 1'-0"

LAP SPLICE LENGTHS (FOUNDATIONS AND SLABS)				
BAR SIZE	3000 PSI	4000 PSI	5000 PSI	6000 PSI
#3	2'-4"	2'-1"	1'-10"	1'-8"
#4	3'-2"	2'-9"	2'-5"	2'-3"
#5	3'-11"	3'-5"	3'-0"	2'-9"
#6	4'-8"	4'-1"	3'-8"	3'-4"
#7	6'-9"	5'-11"	5'-3"	4'-10"
#8	7'-9"	6'-11"	6'-0"	5'-6"
#9	8'-10"	7'-7"	6'-9"	6'-2"
#10	9'-8"	8'-6"	7'-8"	7'-0"
#11	10'-11"	9'-6"	8'-6"	7'-9"
#14	13'-1"	11'-4"	10'-2"	9'-3"

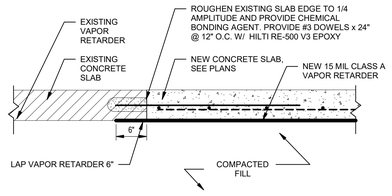
9 TYP. CONCRETE LAP SPLICE SCHEDULE
1" = 1'-0"



10 SLAB - TYP. THICKENED SLAB EDGE DETAIL FOR INTERIOR SLAB EDGES
3/4" = 1'-0"



11 TYPICAL SLAB TRENCH DETAIL
1" = 1'-0"



12 TYPICAL NEW SLAB TO EXISTING SLAB CONNECTION DETAIL
1" = 1'-0"

ADC ENGINEERING INC. NO. 00253
SOUTH CAROLINA BOARD OF ARCHITECTURAL EXAMINERS
SOUTH CAROLINA LICENSE NO. 28195
12 19 22
CHRISTOPHER J. GILGER
SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
ADCENGINEERING.COM

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION
PROJECT #1222

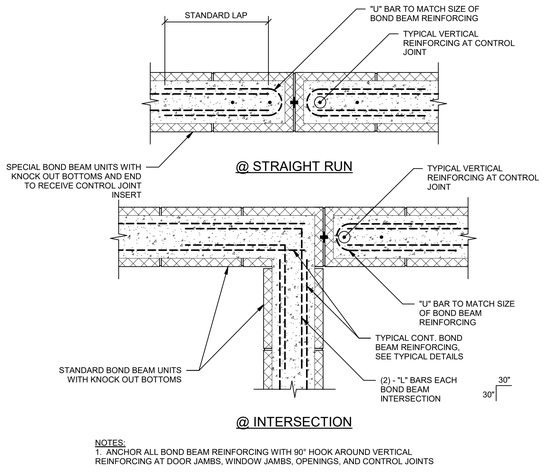
310 GREENWICH DRIVE
GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC
ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

TYPICAL FOUNDATION AND SLAB DETAILS

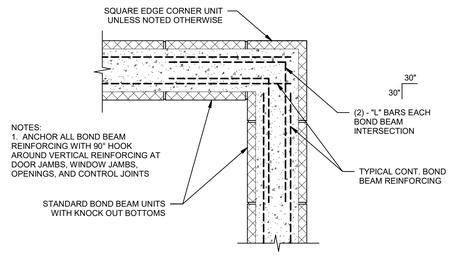
SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S601
CHECKED BY CJG	
DATE 12/19/2022	
SCALE As indicated	12/28/2022 12:02:09 PM



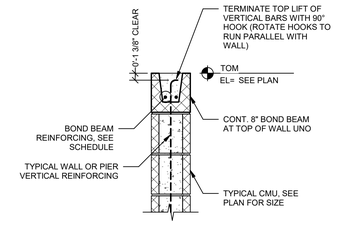
NOTES:
1. ANCHOR ALL BOND BEAM REINFORCING WITH 90° HOOK AROUND VERTICAL REINFORCING AT DOOR JAMBS, WINDOW JAMBS, OPENINGS, AND CONTROL JOINTS

1 CMU - TYP. BOND BEAM REINFORCING (CONTROL JOINT)
1" = 1'-0"

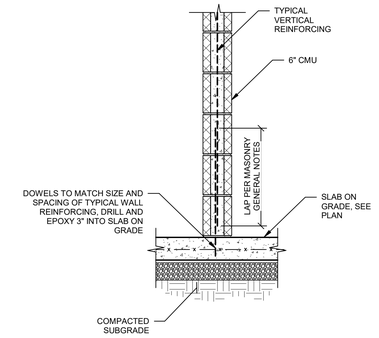


NOTES:
1. ANCHOR ALL BOND BEAM REINFORCING WITH 90° HOOK AROUND VERTICAL REINFORCING AT CORNER JAMBS, WINDOW JAMBS, OPENINGS, AND CONTROL JOINTS

2 CMU - TYP. BOND BEAM REINFORCING (CORNER)
1" = 1'-0"

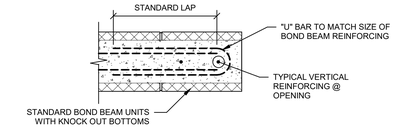


4 CMU - TYP. TOP OF WALL BOND BEAM
1" = 1'-0"

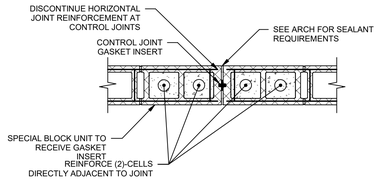


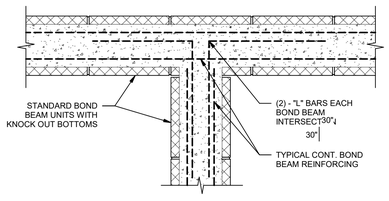
NOTES:
1. DETAIL IS TYPICAL WHERE 6" WALL IS NOT SPECIFICALLY INDICATED TO BEAR AT FOOTING LEVEL

5 CMU - TYP. 6" CMU CHASE/FURRING WALL @ SLAB ON GRADE
1" = 1'-0"



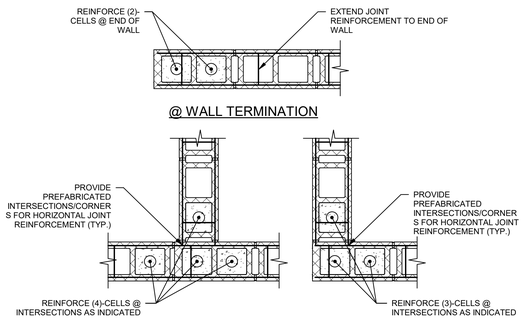
3 CMU - TYP. BOND BEAM REINFORCING (WALL OPENING)
1" = 1'-0"





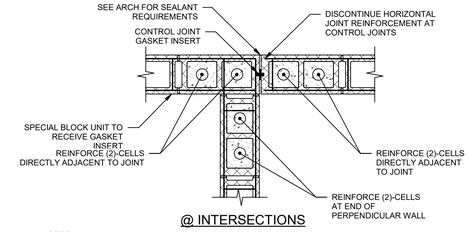
NOTES:
1. ANCHOR ALL BOND BEAM REINFORCING WITH 90° HOOK AROUND VERTICAL REINFORCING AT DOOR JAMBS, WINDOW JAMBS, OPENINGS, AND CONTROL JOINTS

6 CMU - TYP. BOND BEAM REINFORCING (WALL INTERSECTION)
1" = 1'-0"



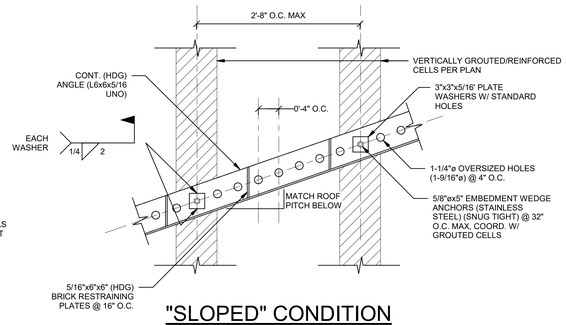
NOTES:
1. COORDINATE THESE TYPICAL DETAILS WITH SPECIFIC PIER DETAILS
2. SEE SCHEDULES AND SECTIONS FOR TYPICAL CMU WALL VERTICAL REINFORCING
3. SEE SPECIFICATIONS AND GENERAL NOTES FOR REBAR POSITIONER REQUIREMENTS

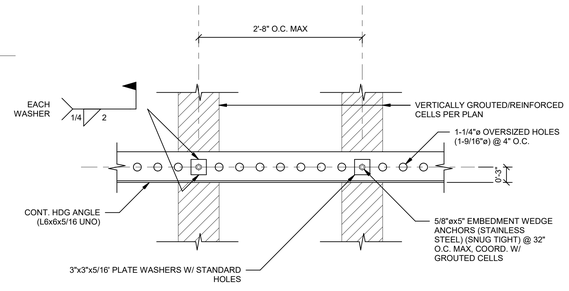
7 CMU - TYP. CMU VERTICAL REINFORCING
1" = 1'-0"



NOTES:
1. LOCATE CONTROL JOINTS @ 40'-0" O.C. MAX. AND AS INDICATED ON PLANS
2. DO NOT LOCATE CONTROL JOINT WITHIN EITHER SIDE OF A BEAM BEARING LOCATION
3. SEE TYPICAL BOND BEAM REINFORCING DETAILS FOR TERMINATION OF BOND BEAM REINFORCING AT CONTROL JOINTS
4. SEE ARCHITECTURAL DRAWINGS FOR JOINT FILLER REQUIREMENTS AT RATED WALLS
5. SEE SPECIFICATIONS AND GENERAL NOTES FOR REBAR POSITIONER REQUIREMENTS

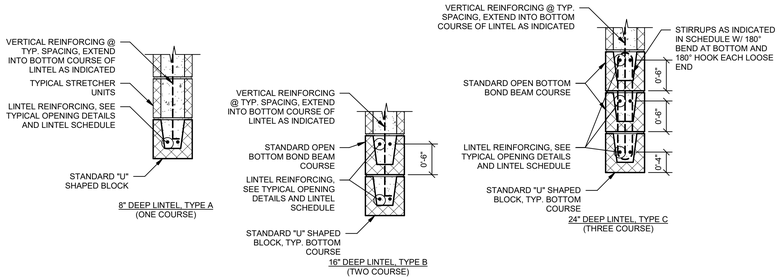
8 CMU - TYP. CMU CONTROL JOINT
1" = 1'-0"





NOTES:
1. ALL BRICK LEDGES SHALL BE HOT DIP GALVANIZED
2. EDGE ANGLE/BENT PLATE MAY BE TOED UP OR DOWN, SEE SPECIFIC SECTIONS
3. INSTALLATION SEQUENCE SHALL BE:
   A. INSTALL ONE WEDGE ANCHOR AT EACH END OF INDIVIDUAL SEGMENT OF ANGLE.
   B. INSTALL ANGLE AND ADJUST TO PROPER LOCATION. WELD PLATE WASHERS FOR TWO INSTALL BOLTS.
   C. DRILL AND SET BALANCE OF WEDGE ANCHORS.
   D. WELD PLATE WASHERS IN PLACE FOR BALANCE OF BOLTS.
4. SEE TYPICAL SPLICE DETAIL FOR SPLICE REQUIREMENTS.
5. WHERE ANGLE IS PITCHED THE 8" ON CENTER DIMENSIONS FOR SLOTS SHALL BE A PROJECTED DIMENSION FROM HORIZONTAL
6. BRICK RESTRAINING PLATES SHALL MATCH THE HEIGHT AND WIDTH OF RELIEVING ANGLE AND HAVE A WEEP NOTCH (3/4"x3/4" AT "K" OF ANGLE)
7. BRICK RESTRAINING PLATES SHALL BE WELDED WITH 3/16" FILLET WELD EACH SIDE ALONG VERTICAL AND HORIZONTAL LEG OF RELIEVING ANGLE.

10 CMU - TYP. ANGLE/ BENT PLATE BOLTED TO CMU
1" = 1'-0"



NOTES:
1. SUPPORT LINTEL BARS ON HORIZONTAL REBAR POSITIONERS @ 16" O.C. MAX TO ACHIEVE PROPER LOCATION
2. PROVIDE ADDITIONAL BARS, WIRE TIES, ETC. AS REQUIRED TO ENSURE LINTEL BARS ARE NOT DISPLACED DURING GROUTING OPERATIONS

9 CMU - TYP. CMU LINTEL
1" = 1'-0"

SOUTH CAROLINA — ADC ENGINEERING INC. NO. 00253 — CERTIFICATE OF AUTHORIZATION

SOUTH CAROLINA — REGISTERED PROFESSIONAL ENGINEER — No. 28195 — CHRISTOPHER J. GILGER — 12 SEP 22

SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
ADCENGINEERING.COM

CONSTRUCTION DOCUMENTS

REVISIONS		

BOBBY ALFORD PAVILION
PROJECT #1222

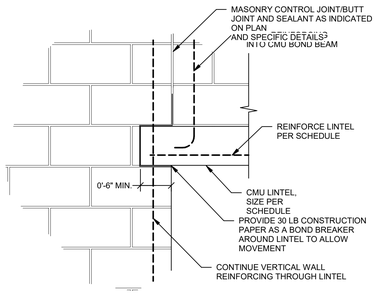
310 GREENWICH DRIVE
GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

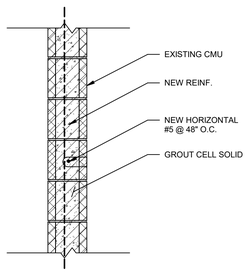
TYPICAL MASONRY DETAILS

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY: JMJ/EH	S611
CHECKED BY: CJG	
DATE: 12/19/2022	
SCALE: 1" = 1'-0"	12/28/2022 12:02:10 PM



1 CMU - TYP. CMU LINTEL AT CONTROL JOINT
1" = 1'-0"



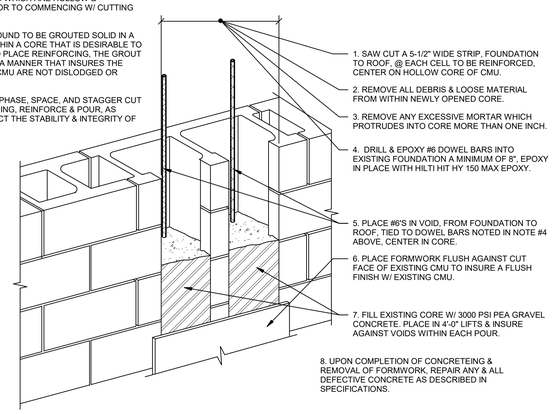
2 CMU - TYP. EXISTING CMU BOND BEAM RETROFIT
1" = 1'-0"

IT SHALL BE ANTICIPATED BY THE CONTRACTOR THAT EXISTING CONDITIONS EXIST WHICH MAY PREVENT REINFORCING PLACEMENT IN CERTAIN CELLS.

THE CONTRACTOR SHALL PERFORM NON-DESTRUCTIVE TESTING, SUCH AS R-METER TESTING, AS REQUIRED TO LOCATE THOSE CELLS WHICH ARE HOLLOW & UNOBSTRUCTED, PRIOR TO COMMENCING W/ CUTTING PROCEDURES.

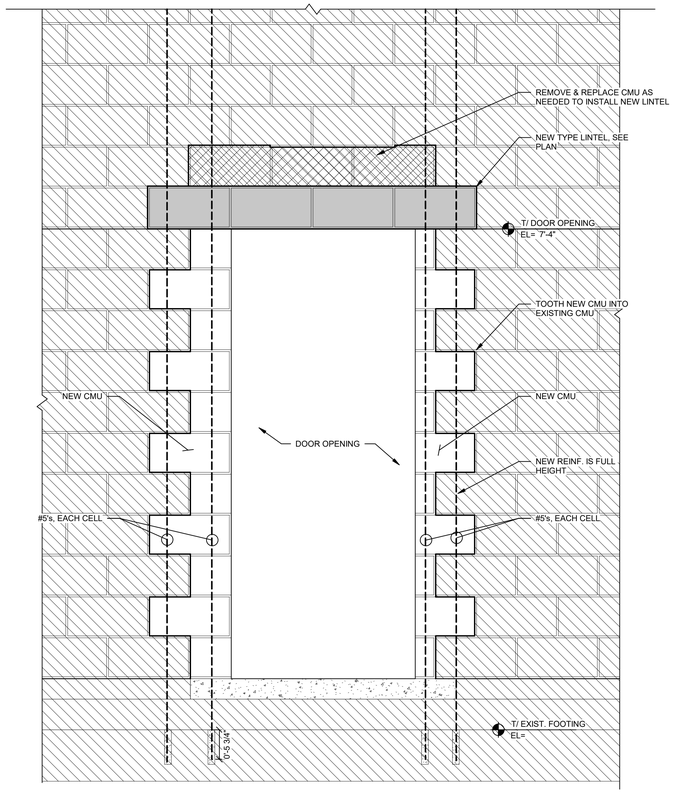
WHERE CELLS ARE FOUND TO BE GROUTED SOLID IN A LOCALIZED AREA, WITHIN A CORE THAT IS DESIRABLE TO THE CONTRACTOR TO PLACE REINFORCING, THE GROUT MAY BE CUT AWAY IN A MANNER THAT INSURES THE ADJACENT GROUT & CMU ARE NOT DISLODGED OR DAMAGED

CONTRACTOR SHALL PHASE, SPACE, AND STAGGER CUT CELLS AROUND BUILDING, REINFORCE & POUR, AS REQUIRED TO PROTECT THE STABILITY & INTEGRITY OF THE STRUCTURE.

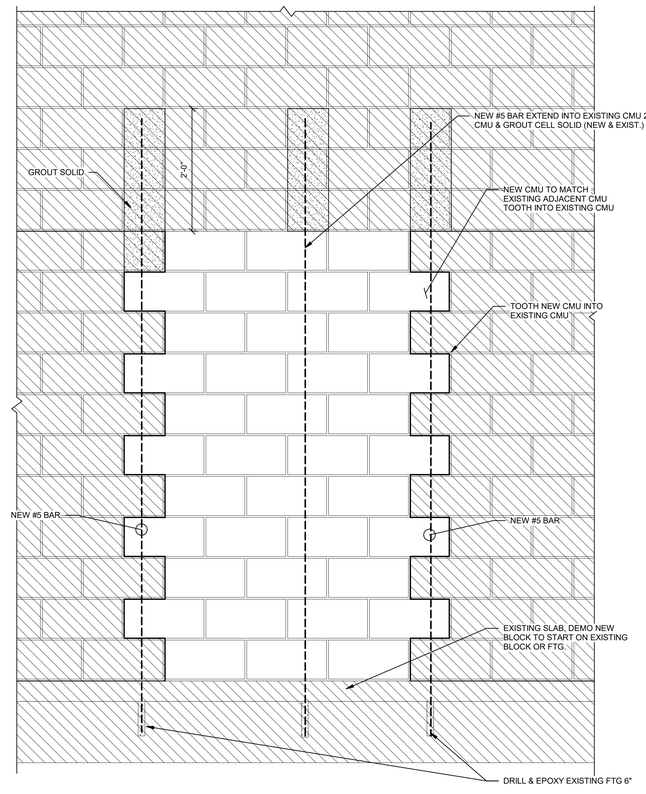


TYPICAL REINFORCING PROCEDURE ISOMETRIC

3 CMU - TYP. MASONRY REINFORCING RETROFIT DETAIL
1" = 1'-0"



7 TYP. NEW 3'-0" DOOR PENETRATION DETAIL (3'-4" R.O.)
1" = 1'-0"



8 TYP. NEW WALL INFILL DETAIL
1" = 1'-0"

ADC ENGINEERING INC. NO. 00253
SOUTH CAROLINA CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA LICENSED PROFESSIONAL ENGINEER NO. 28195 CHRISTOPHER J. GILGER
12 15 22

SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
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CONSTRUCTION DOCUMENTS

REVISIONS	

BOBBY ALFORD PAVILION
PROJECT #1222

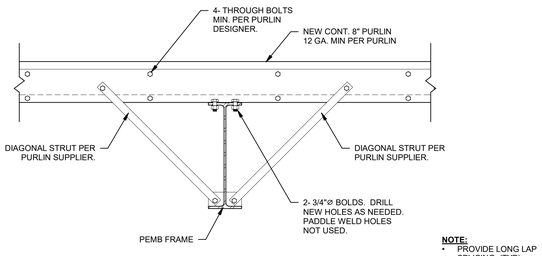
310 GREENWICH DRIVE
GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

TYPICAL MASONRY DETAILS

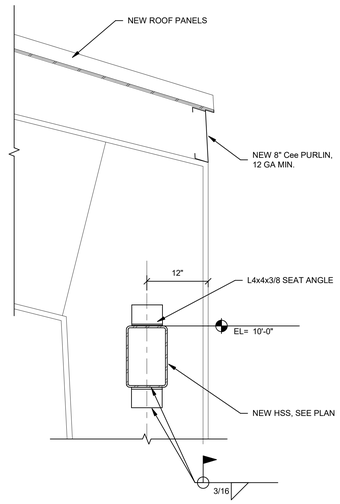
SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S612
CHECKED BY CJG	
DATE 12/19/2022	
SCALE 1" = 1'-0"	12/28/2022 12:02:11 PM

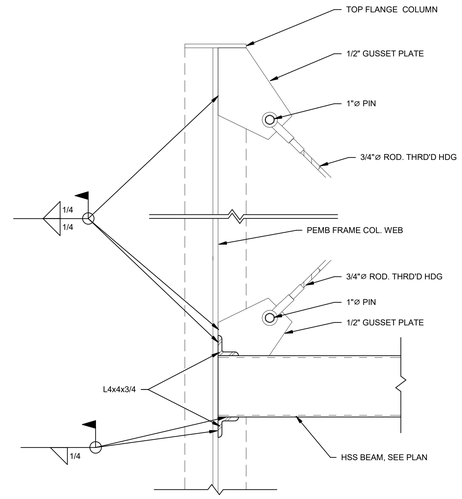


NOTE:
- PROVIDE LONG LAP SPLICING. (TYP)
- 3 SPAN CONDITION. (TYP)

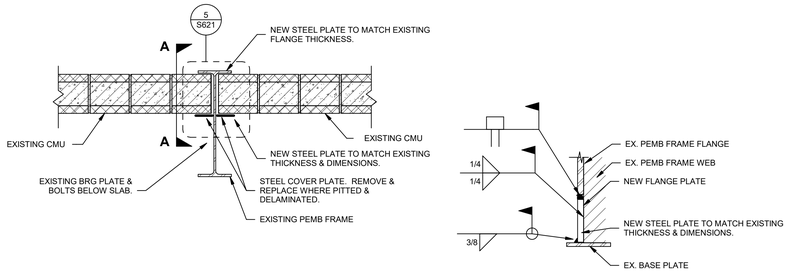
1 TYP. PURLIN ATTACHMENT TO PEMB FRAME
1" = 1'-0"



2 TYP. HSS CONNECTION TO PEMB FRAME
1" = 1'-0"

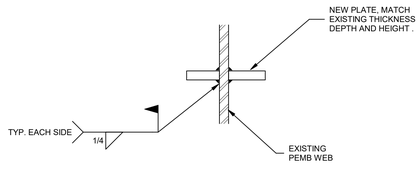


3 TYP. GUSSET PLATE DETAIL
1" = 1'-0"



SECTION A-A

4 TYP. PEMB FLANGE REPLACEMENT DETAIL
1" = 1'-0"



5 TYP. CAP PLATE REPLACEMENT DETAIL
1 1/2" = 1'-0"

ADC ENGINEERING INC. NO. 00253
SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA
LICENSED
PROFESSIONAL ENGINEER
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CHRISTOPHER J. GILGER

SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
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CONSTRUCTION DOCUMENTS

REVISIONS		

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PAVILION
PROJECT #1222

310 GREENWICH DRIVE
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CHARLESTON, SC 29412
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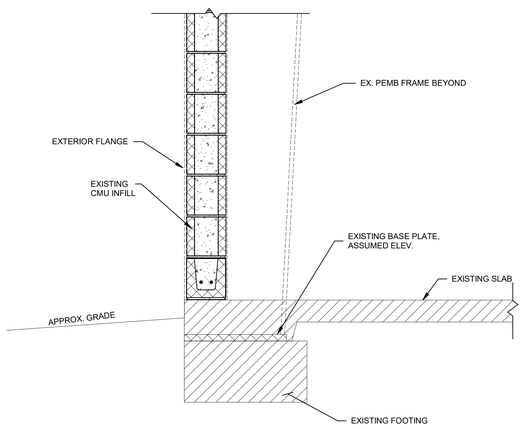
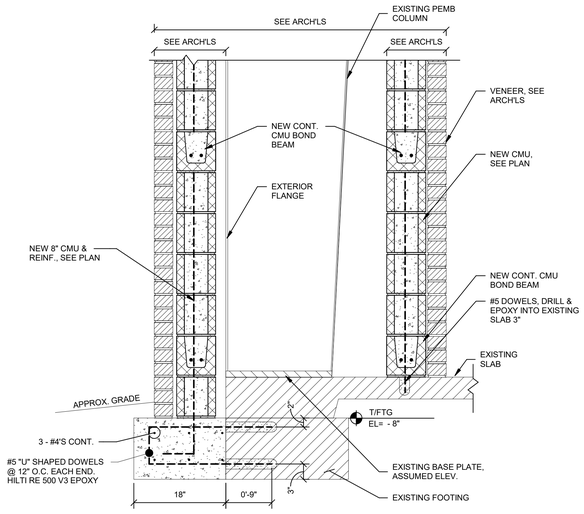
TYPICAL STEEL DETAILS

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S621
CHECKED BY CJG	
DATE 12/19/2022	
SCALE As indicated	12/28/2022 12:02:11 PM



1 SECTION
1" = 1'-0"



2 SECTION
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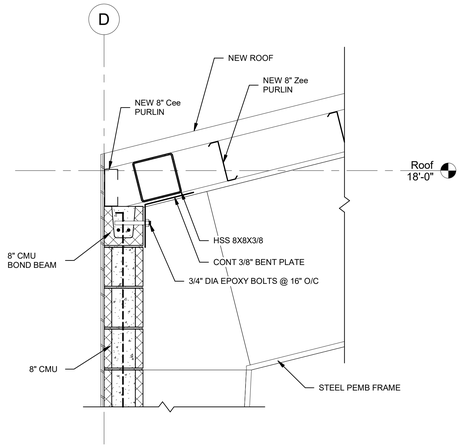
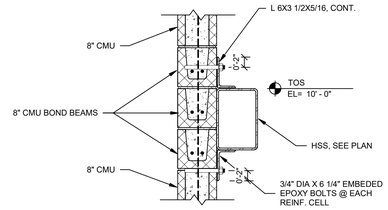


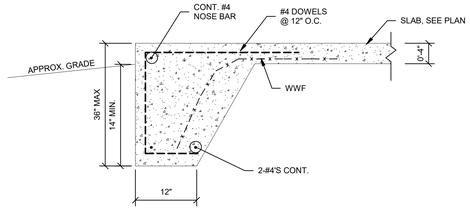
3 SECTION
1" = 1'-0"



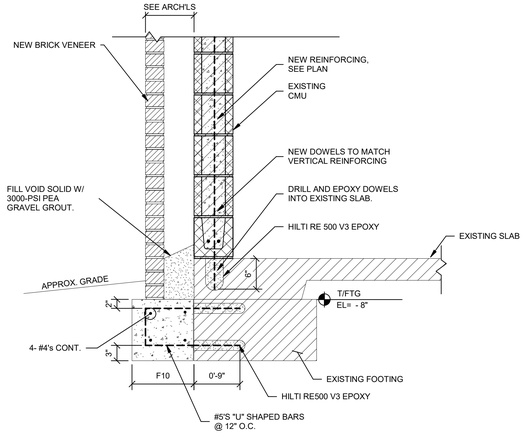
4 SECTION
1" = 1'-0"

5 SECTION
1" = 1'-0"

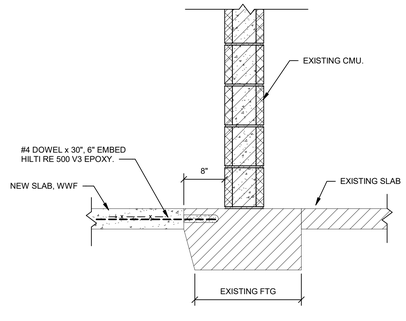
6 SECTION
1" = 1'-0"



8 SECTION
1" = 1'-0"



9 SECTION
1" = 1'-0"



10 SECTION
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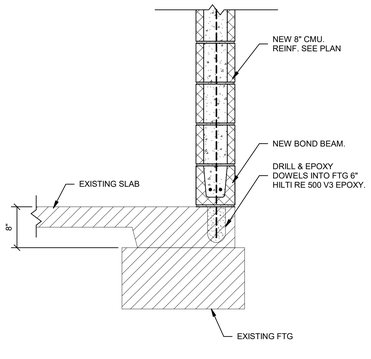
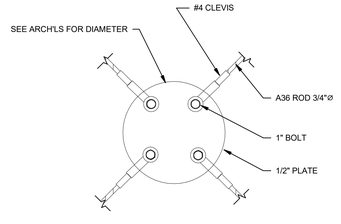


11 SECTION
1" = 1'-0"



12 TYPICAL THRD'D ROD "X" BRACING CONNECTION (CENTER)
1" = 1'-0"

SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
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CONSTRUCTION DOCUMENTS

REVISIONS	

BOBBY ALFORD PAVILION PROJECT #1222

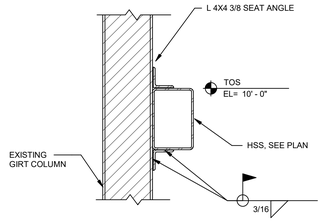
310 GREENWICH DRIVE
GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

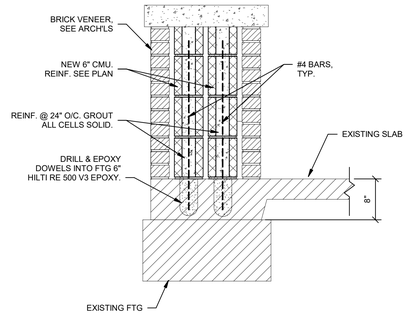
SECTIONS AND DETAILS

SHEET NAME

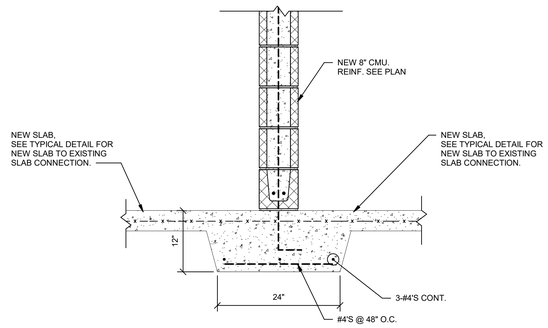
PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S701
CHECKED BY CJG	
DATE 12/19/2022	
SCALE 1" = 1'-0"	12/28/2022 12:02:12 PM



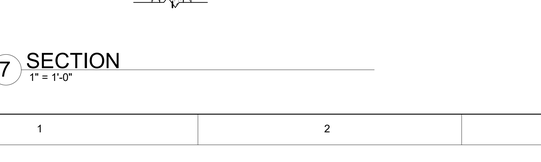
1 TYP. HSS TO GIRT COLUMN ATTACHMENT
1" = 1'-0"



2 SECTION
1" = 1'-0"

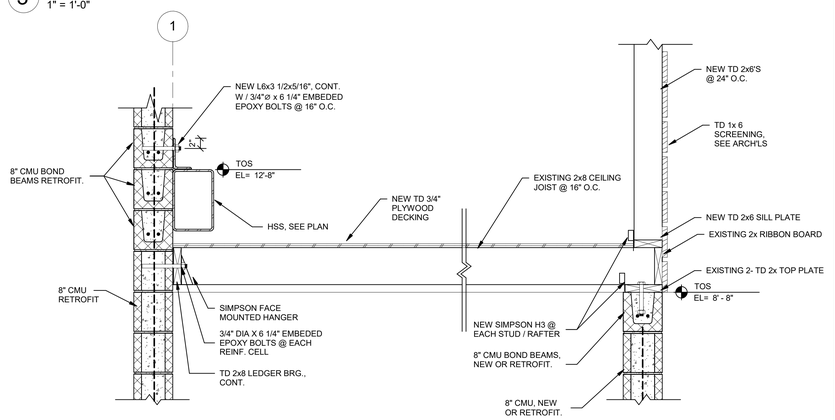


3 SECTION
1" = 1'-0"



4 SECTION
1" = 1'-0"

5 TYP. RAMP DETAIL
1" = 1'-0"



6 SECTION
1" = 1'-0"

7 SECTION
1" = 1'-0"

8 SECTION
1" = 1'-0"

9 SECTION
1" = 1'-0"

ADC ENGINEERING INC. NO. 00253
SOUTH CAROLINA
CERTIFICATE OF AUTHORIZATION
SOUTH CAROLINA
No. 28195
REGISTERED
12
APR
22
CHRISTOPHER J. GILGER

SEALS

NOTES:

ADC ENGINEERING
1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
843-566-0161
ADCENGINEERING.COM

CONSTRUCTION DOCUMENTS

REVISIONS	

BOBBY ALFORD
PAVILION
PROJECT #1222

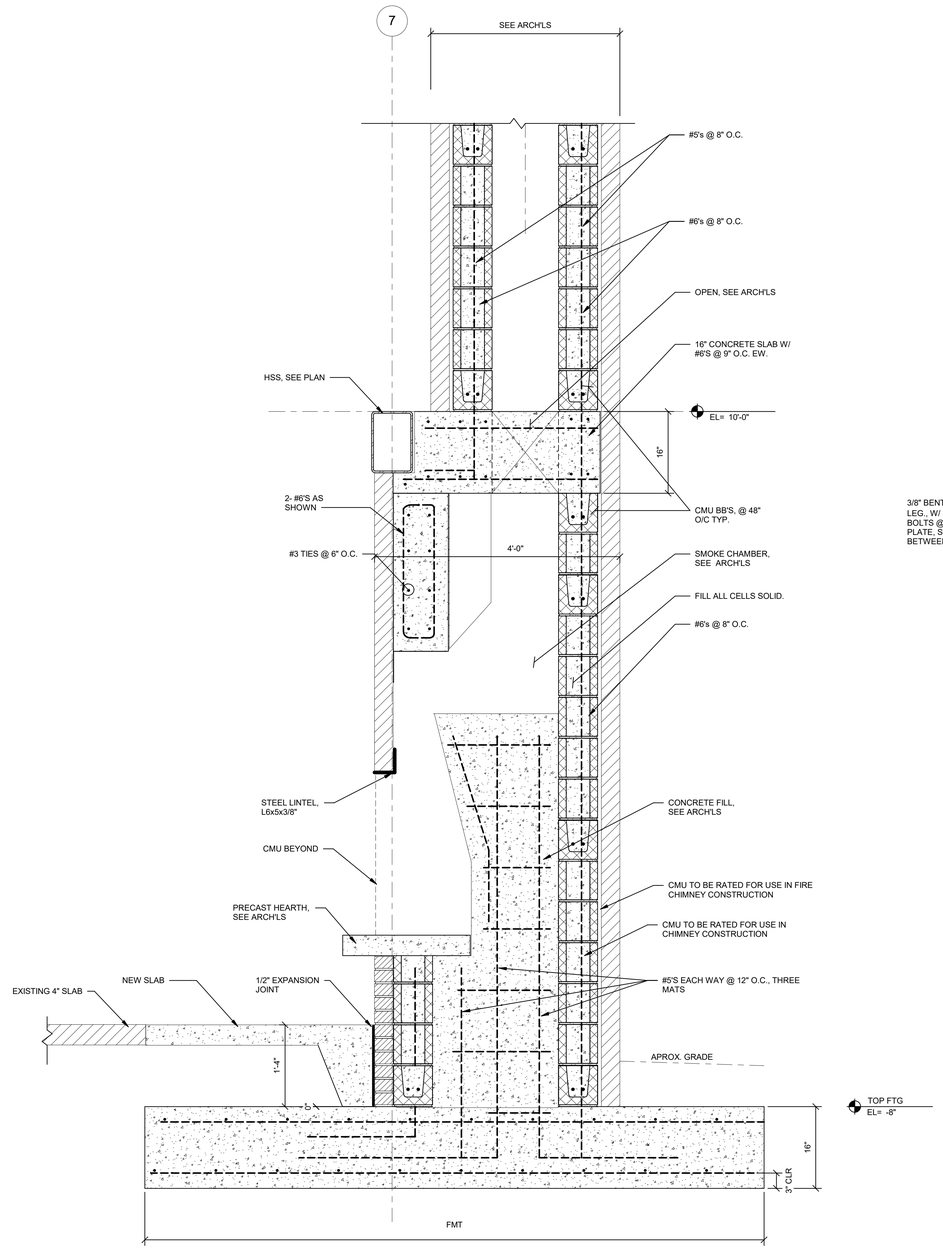
310 GREENWICH DRIVE
GEORGETOWN, SC 29442

ROSENBLUM COE ARCHITECTS, INC
ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

SECTIONS AND DETAILS

SHEET NAME

PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S702
CHECKED BY CJG	
DATE 12/19/2022	
SCALE 1" = 1'-0"	12/28/2022 12:02:13 PM



1 SECTION
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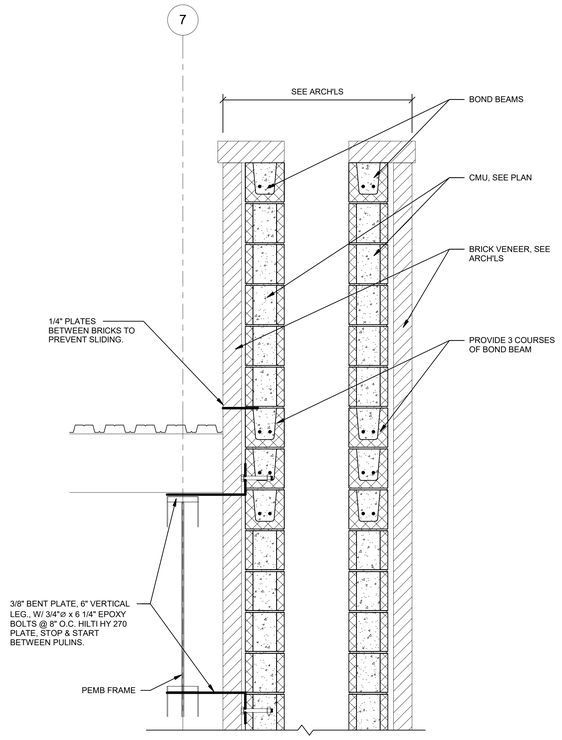
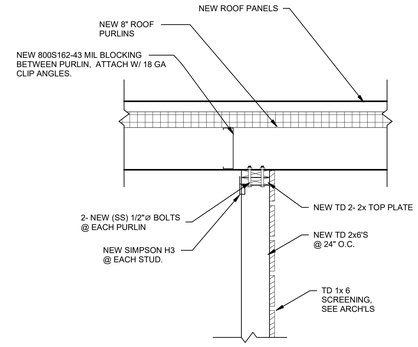
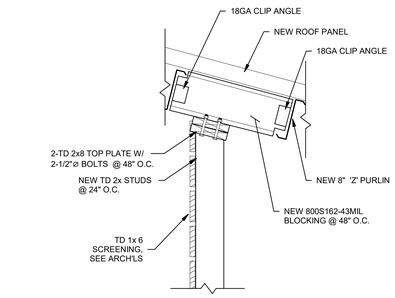


2 SECTION
1" = 1'-0"



3 SECTION
1" = 1'-0"



4 SECTION
1" = 1'-0"

SEALS

NOTES:

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1226 YEAMANS HALL ROAD
HANAHAN, SC 29410
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CONSTRUCTION DOCUMENTS

REVISIONS		

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PROJECT #1222

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ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

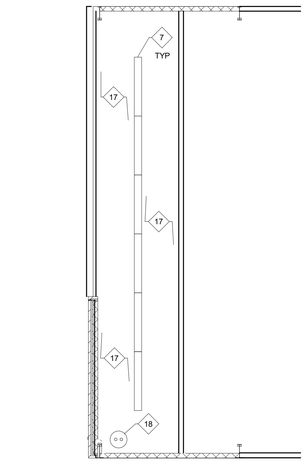
SECTIONS AND DETAILS

SHEET NAME

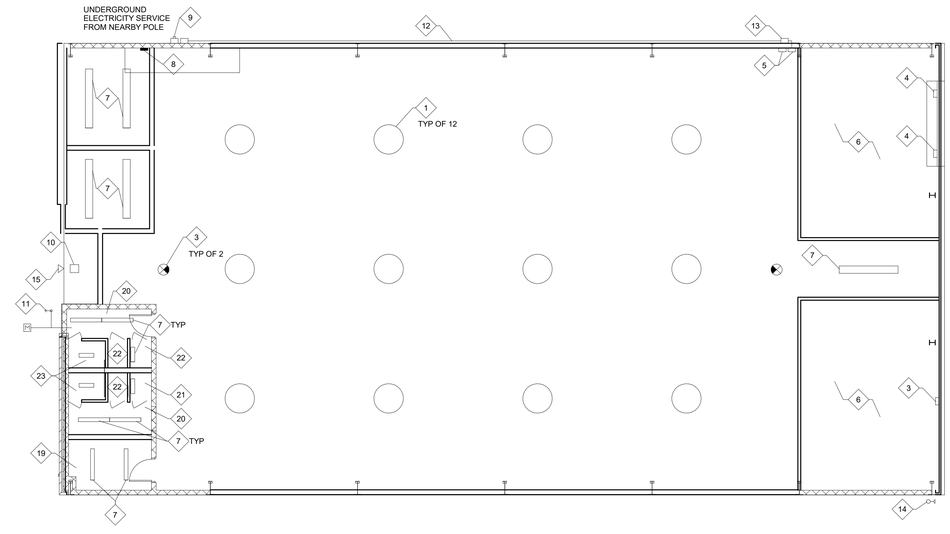
PROJECT NUMBER	PROJECT NUMBER: ADC ENGINEERING 22304
DRAWN BY JMJ/EH	S703
CHECKED BY CJG	
DATE 12/19/2022	
SCALE 1" = 1'-0"	12/28/2022 12:02:13 PM

DEMOLITION NOTES

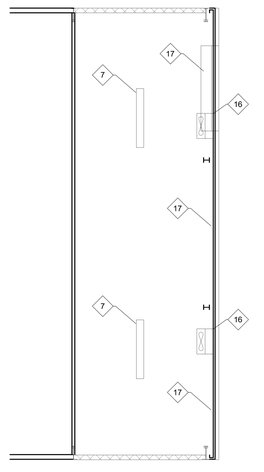
1. DEMOLISH EXISTING HIGH BAY METAL HALIDE FIXTURES (TYPICAL OF 12) IN THEIR ENTIRETY, INCLUDING ELECTRICAL CONDUIT, BOXES, AND CONDUCTORS BACK TO SOURCE PANEL.
2. DEMOLISH EXISTING EXIT SIGNS (TYPICAL OF 2) IN THEIR ENTIRETY, INCLUDING ELECTRICAL CONDUIT, BOXES, AND CONDUCTORS BACK TO SOURCE PANEL.
3. DEMOLISH NETWORK CABINET AND PATCH PANEL IN THEIR ENTIRETY, INCLUDING ALL COMMUNICATIONS CABLE THROUGHOUT BACK TO DEMARC.
4. DEMOLISH EXISTING SINGLE PHASE SUBPANEL IN ITS ENTIRETY, INCLUDING ALL CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL.
5. REMOVE IRRIGATION SYSTEM CONTROL PANELS (2) AND SAVE FOR REINSTALLATION. SEE NEW WORK NOTES.
6. DEMOLISH ALL LIGHTING (2X4 LAY-IN TYPICAL), SWITCHES, AND RECEPTACLES THROUGHOUT OFFICE AREAS INCLUDING CONDUIT, BOXES, AND CONDUCTORS BACK TO SOURCE PANEL.
7. DEMOLISH SURFACE MOUNTED STRIP LIGHTS IN THEIR ENTIRETY INCLUDING SWITCHES, CONDUIT, BOXES, AND CONDUCTORS BACK TO SOURCE PANEL.
8. DEMOLISH 120/240V/1PH/200A MAIN DISTRIBUTION PANEL IN ITS ENTIRETY INCLUDING CONDUIT AND CONDUCTORS BACK TO METER.
9. DEMOLISH EXISTING 200A METER CAN AND ASSOCIATED DISTRIBUTION PANEL ON EXTERIOR OF BUILDING. RETAIN UNDERGROUND PRIMARY SERVICE CONDUIT AND CONDUCTORS TO RE-FEED NEW SERVICE. COORDINATE METER REMOVAL WITH LOCAL UTILITY.
10. DEMOLISH SURFACE MOUNTED EXTERIOR ENTRY LIGHT IN ITS ENTIRETY INCLUDING SWITCHES, CONDUIT, BOXES, AND CONDUCTORS BACK TO SOURCE PANEL.
11. EXISTING 3/4-IN WATER METER AND UNDERGROUND DOMESTIC SERVICE INTO BUILDING TO REMAIN. DEMOLISH EXISTING HOSE BIBB AND CAP COPPER TEE FOR INSTALLATION OF NEW FREEZE PROOF WALL HYDRANT; SEE NEW WORK NOTES.
12. DEMOLISH EXPOSED ELECTRICAL SERVICE CONDUIT AND CONDUCTORS FROM METER DISTRIBUTION BOX TO SUBPANELS IN THEIR ENTIRETY INCLUDING CONDUIT AND CONDUCTORS.
13. DEMOLISH COMMUNICATIONS PANEL IN ITS ENTIRETY. COORDINATE WITH COMMUNICATIONS SERVICE PROVIDER FOR REMOVAL OF PANEL AND SERVICE CONDUIT/COMMUNICATIONS WIRING.
14. COORDINATE WITH ELECTRICAL UTILITY COMPANY FOR REMOVAL OF POLE AND POLE MOUNTED PARKING LOT LIGHT.
15. DEMOLISH EXTERIOR EGRESS LIGHT FIXTURE IN ITS ENTIRETY INCLUDING CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL.
16. DEMOLISH HIGH SIDEWALL PROP FAN IN ITS ENTIRETY INCLUDING HOUSING, DISCONNECT, CONDUIT, AND CONDUCTORS BACK TO SOURCE PANEL.
17. DEMOLISH ABANDONED DUCTWORK AND HVAC EQUIPMENT CABINETS IN THEIR ENTIRETY, AS WELL AS ALL REMAINING ELECTRICAL ACCESSORIES, POWER CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL.
18. REMOVE ELECTRIC TANK TYPE WATER HEATER AND RETAIN FOR REINSTALLATION. SEE NEW WORK NOTES. TEMPORARILY CAP COLD AND HOT WATER COPPER PIPING SERVING RESTROOMS.
19. DEMOLISH WALL HUNG LAVATORY AND TANK TYPE WATER CLOSET IN THEIR ENTIRETY. PERMANENTLY CAP DWV AND CW/HW LINES FLUSH WITH FLOOR AND WALL.
20. DEMOLISH WALL HUNG LAVATORY. RETAIN DWV AND CW/HW LINES TO SERVE NEW COUNTER MOUNTED LAVATORIES; SEE NEW WORK NOTES.
21. DEMOLISH WALL HUNG URINAL IN IT'S ENTIRETY. PERMANENTLY CAP DWV LINE AT WALL. TEMPORARILY CAP CW LINE ON WALL TO SERVE NEW WATER CLOSET; SEE NEW WORK NOTES.
22. DEMOLISH TANK TYPE WATER CLOSET. RETAIN DWV AND CW LINES TO SERVE NEW WATER CLOSET; SEE NEW WORK NOTES.
23. DEMOLISH SHOWER STALL IN ITS ENTIRETY. SEE NEW WORK NOTES FOR INSTALLATION OF NEW ADA WATER CLOSET.



2 PARTIAL PLAN - 2ND FLOOR 1
1/8" = 1'-0"



1 DEMOLITION PLAN - 1ST FLOOR
1/8" = 1'-0"



3 PARTIAL PLAN - 2ND FLOOR 2
1/8" = 1'-0"

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

GEORGETOWN BOBBY ALFORD PAVILION RENOVATION

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

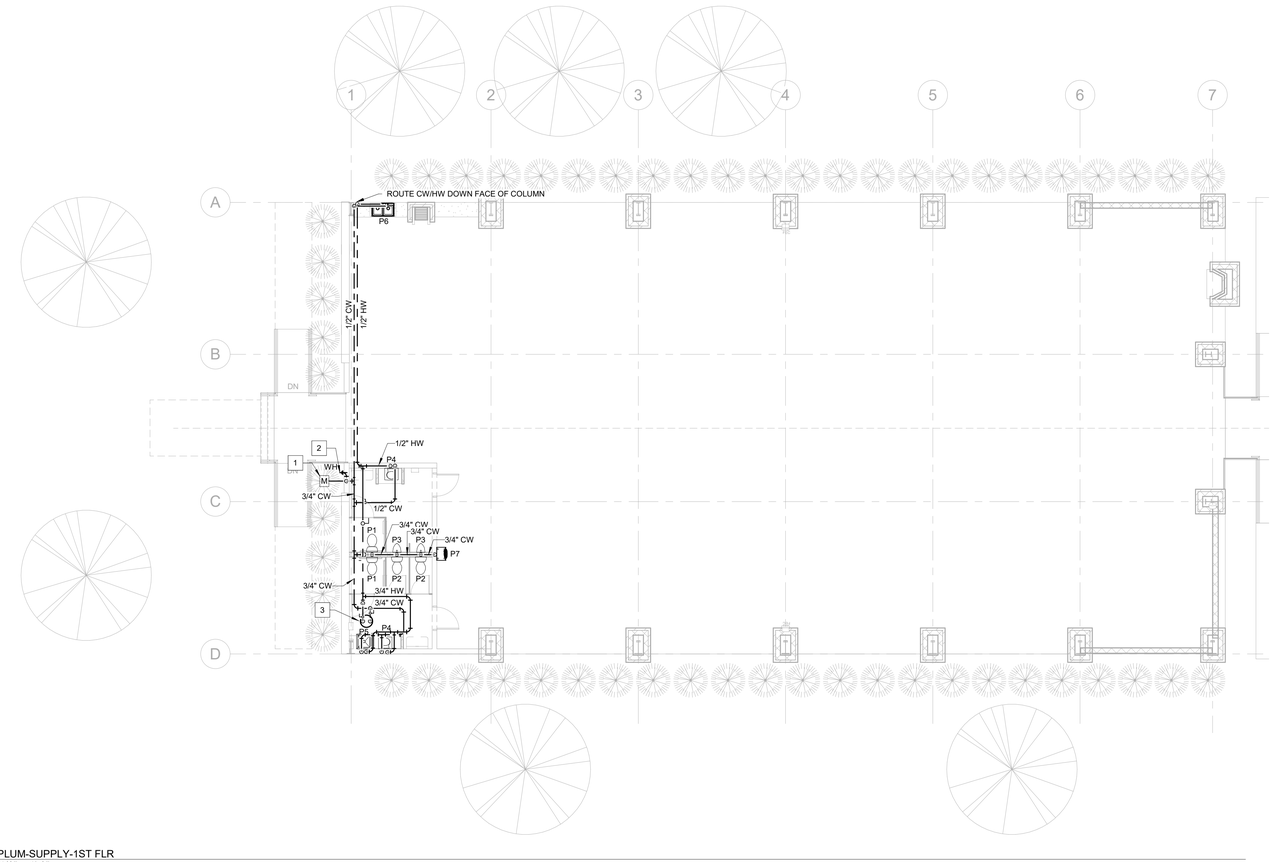
MECHANICAL, ELECTRICAL, PLUMBING DEMOLITION PLAN

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	JCM
DATE	12/15/2022
SCALE	1/8" = 1'-0"

D-101

12/23/2022 3:53:21 PM



1 PLUM-SUPPLY-1ST FLR
1/8" = 1'-0"

PLUMBING LEGEND

WH	WALL HYDRANT
M	METER
GCO	GRADE CLEANOUT
FCO	FLOOR CLEANOUT
VTR	VENT THRU ROOF
FD	FLOOR DRAIN
EWH	ELECTRIC WATER HEATER
AAV	AIR ADMITTANCE VALVE
— — — —	COLD WATER LINE, CW
— — — —	HOT WATER LINE, HW
————	SANITARY DRAIN LINE, S
— — — —	VENT LINE, V

PLUMBING GENERAL NOTES

G1 PROVIDE LABOR, EQUIPMENT AND MATERIALS TO COMPLETE THE PLUMBING WORK INDICATED ON THESE DRAWINGS AS REQUIRED BY LOCAL CODE AND ORDINANCES.

G2 INCLUDE WASTE, VENT, DOMESTIC COLD & HOT WATER PIPING, AS INDICATED ON THESE DRAWINGS, AS WELL AS HOOKUP OF FIXTURES AND INSULATION OF PIPING.

G3 INCLUDE ITEMS, SUCH AS FITTINGS, ETC. NOT MENTIONED BUT UNDERSTOOD TO BE NECESSARY TO COMPLETE THE PLUMBING SYSTEM.

G4 SOIL, WASTE, VENT AND WATER PIPING MATERIALS MUST MEET OR EXCEED LOCAL CODES.

G5 PROVIDE CLEANOUTS FOR SOIL AND WASTE LINES THAT MEET OR EXCEED LOCAL CODES.

G6 CAP STUBS FOR THE DRAINAGE SYSTEM UNTIL FINISHED WORK IS INSTALLED.

G7 PROVIDE WATER HAMMER ARRESTERS IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AND LOCAL ORDINANCES.

G8 LOCATE TRAP PRIMER VALVES ABOVE THE CEILING. ROUTE PRIMER LINES TO FLOOR DRAINS DOWN INSIDE WALL AND BELOW SLAB.

G9 LOCATE PLUMBING FIXTURES PER ARCHITECTURAL DRAWINGS. PIPING IS SHOWN IN GENERAL LOCATION. EXACT LOCATION WILL BE DETERMINED BY JOB CONDITIONS.

G10 COMPLETE WORK IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AND LOCAL ORDINANCES . SEE SPECIFICATIONS FOR PRODUCT AND INSTALLATION REQUIREMENTS.

G11 GUARANTEE WORK UNDER THIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP, MATERIALS AND EQUIPMENT FOR ONE YEAR AFTER ACCEPTANCE OF THE BUILDING BY THE OWNER. SHOULD SUCH DEFECTS OCCUR DURING THE ONE YEAR PERIOD, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AND DAMAGE RESULTING FROM THE FAILURE OF THESE ITEMS AT NO EXPENSE WHATSOEVER TO THE OWNER.

G12 COORDINATE BONDING OF METALLIC PIPES (GAS, WATER, ETC.) WITH ELECTRICAL.

G13 ALL PLUMBING WORK SHALL BE PERFORMED BY A PLUMBING CONTRACTOR LICENSED BY SCLLR.

PLUMBING DRAWING NOTES

1 EXISTING 3/4-IN DOMESTIC WATER METER

2 PROVIDE NEW FREEZE PROOF WALL HYDRANT, ZURN Z1305 BRONZE CASING OR EQUAL.

3 REINSTALL ELECTRIC TANK TYPE WATER HEATER REMOVED DURING DEMOLITION ON DECK ABOVE RESTROOM. RECONNECT CW/HW LINES. PROVIDE NEW PIPING ASSEMBLY TO INCLUDE HEAT TRAP, EXPANSION TANK, AND ISOLATION BALL VALVES. PROVIDE NEW DRAIN PAN AND COPPER DRAIN LINES FROM T&P VALVE AND PAN ROUTED TO EXTERIOR.

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

GEORGETOWN BOBBY ALFORD PAVILION RENOVATION

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PLUMBING PLAN - SUPPLY

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	CJC
DATE	12/15/2022
SCALE	As indicated

P-101

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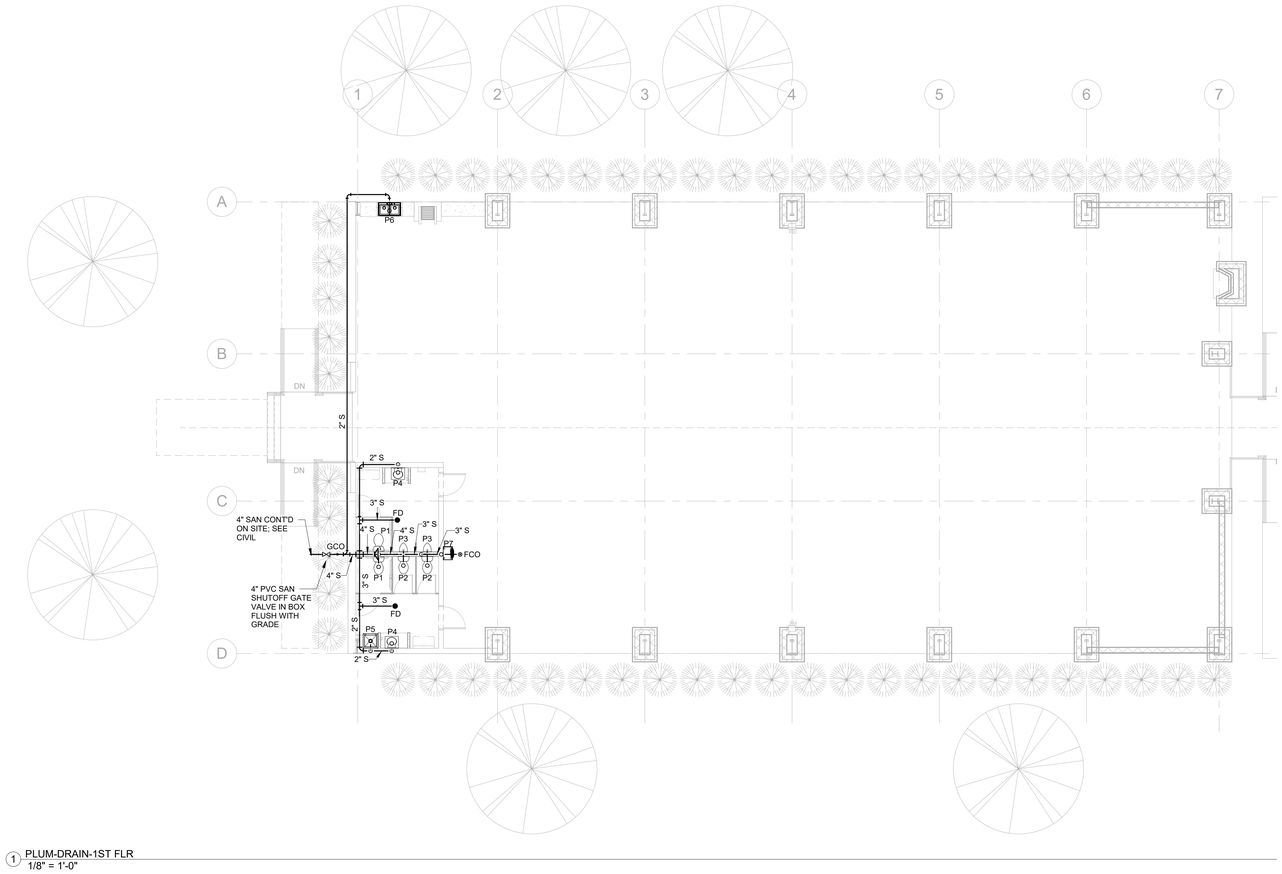

1 PLUM-DRAIN-1ST FLR
1/8" = 1'-0"

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

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CHARLESTON, SC 29412
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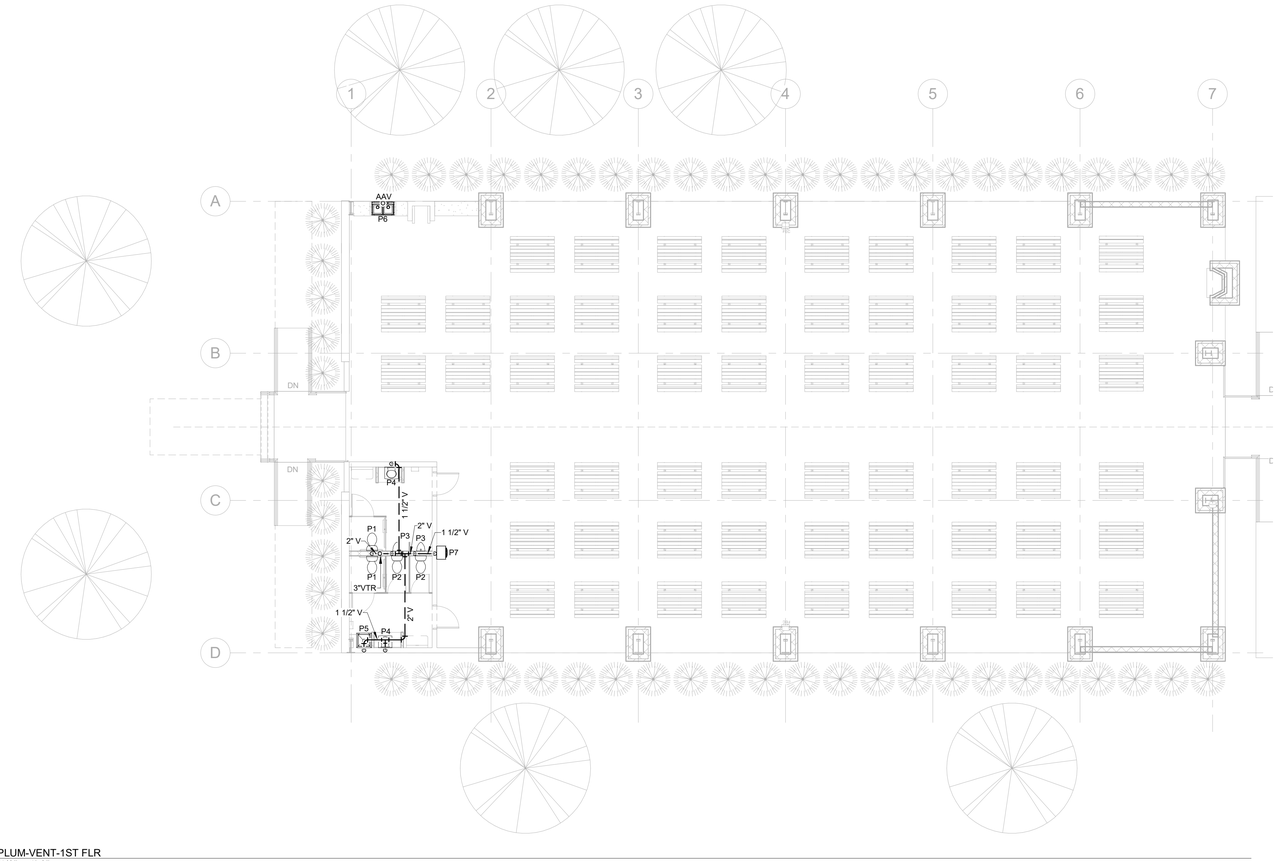
PLUMBING PLAN - DRAIN AND WASTE

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	CJC
DATE	12/15/2022
SCALE	1/8" = 1'-0"

P-201

12/23/2022 3:53:33 PM



1 PLUM-VENT-1ST FLR
1/8" = 1'-0"

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

GEORGETOWN BOBBY ALFORD PAVILION RENOVATION

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1643 MEANS STREET
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PLUMBING PLAN - VENT

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	CJC
DATE	12/15/2022
SCALE	1/8" = 1'-0"

P-301

12/23/2022 3:53:35 PM

DESIGN LOAD CRITERIA

WIND RESTRAINT LOADING		SEISMIC RESTRAINT LOADING						
BASIC WIND SPEED	BUILDING CLASSIFICATION CATEGORY	SITE CLASS	BUILDING CATEGORY	IMPORTANCE FACTOR	RESPONSE MODIFICATION FACTOR	AMPLIFICATION FACTOR	SPECTRAL RESPONSE ACCELERATION (SHORT PERIODS) S_{DS}	SPECTRAL RESPONSE ACCELERATION (1-SEC PERIODS) S_{D1}
SEE STRUCTURAL		D	D	1.0	SEE STRUCTURAL		0.448G	0.239G

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	MFR	MODEL	CW	HW	WASTE	VENT	NOTES
P1	ADA WATER CLOSET TANK TYPE	KOHLER	KINGSTON COMFORT HEIGHT K-25077-SSTR	1/2"	-	3"	2"	COMFORT HEIGHT COMBINATION ELONGATED TOILET, VITREOUS CHINA, 1.28 GPF WITH K-4650 LUSTRA SEAT AND COVER
P2	WATER CLOSET TANK TYPE	KOHLER	KINGSTON K-25087-SST	1/2"	-	3"	2"	STANDARD HEIGHT COMBINATION ELONGATED TOILET, VITREOUS CHINA, 1.28 GPF WITH K-4650 LUSTRA SEAT AND COVER
P3	ADA URINAL	KOHLER	BARDON K-4991-ETSS	3/4"	-	2"	1 1/2"	VITREOUS CHINA, WALL MOUNTED URINAL WITH MANUAL FLUSH VALVE, KOHLER MODEL K-13519-CP
P4	LAVATORY COUNTERTOP	KOHLER	PENNINGTON K-2196-1	1/2"	1/2"	1 1/2"	1 1/2"	INCLUDE KOHLER FORTE K-10215-4 FAUCET AND DRAIN
P5	MOP BASIN	FIAT	TSB-3000	1/2"	1/2"	3"	1 1/2"	PRECAST TERRAZZO ONE PIECE MOP SERVICE BASIN, 24"x24" WITH FIAT 830-AA WALL MOUNTED SERVICE FAUCET, FLAT STAINLESS STEEL STRAINER, AND STAINLESS STEEL GUARD ON REAR WALL
P6	ADA DOUBLE BOWL SINK	ELKAY	LRAD372260	1/2"	1/2"	2"	1 1/2"	INCLUDE ELKAY LK1500CR FAUCET
FCO	FLOOR CLEANOUT	ZURN	CO-2450	-	-	3"	-	
P7	FLOOR MOUNTED BOTTLE FILLING STATION	ELKAY	DSSBF8S	1/2"	-	1-1/2"	1-1/2"	
WH	WALL HYDRANT	ZURN	Z-1305	3/4"	-	-	-	

ELECTRIC WATER HEATER SCHEDULE

MARK	MFR	MODEL	VOLTS	PHASE	WATTS	STORAGE	RECOVERY @ 60°F RISE	NOTES
EWH-1	A.O. SMITH	DEL-20	240	1	2500	20 GALLON	17 GPH	1. INCLUDE DRAIN PAN, EXPANSION TANK, HW PIPE LOOP, T&P DRAIN, AND AUTOMATIC CW SHUTOFF VALVE IN THE EVENT OF TANK FAILURE

SEISMIC DESIGN CATEGORY D

GENERAL NOTES

A. PER THE **2015 SOUTH CAROLINA** BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-10.
B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-10.
C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
E. SEE DESIGN LOAD CRITERIA TABLE, THIS SHEET, FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.
H. SEISMIC RESTRAINTS FOR DUCTWORK AND PIPING MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

COMPONENT IDENTIFICATION		COMPONENT IMPORTANCE FACTOR (Ip)			
		1.0		1.5	
		SEISMIC RESTRAINT REQUIREMENT	ASCE 7-10 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7-10 REFERENCE
ROOF MOUNTED		RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
FLOOR MOUNTED		RESTRAIN ALL (SEE NOTES 1,2)	13.1.4.6	RESTRAIN ALL	13.1.4.6
WALL MOUNTED		RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL	13.1.4.6
COMPONENT SUPPORTS		RESTRAIN ALL (SEE NOTE 1)	13.6.5	RESTRAIN ALL	13.6.5
SUSPENDED EQUIPMENT	INLINE W/ DUCT/PIPE	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.7	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.7
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		RESTRAIN IF > 3" (SEE NOTE 4)	13.6.8.3.b.c	RESTRAINT IF > 1" (SEE NOTE 4)	13.6.8.3.b
SUSPENDED NON DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL (SEE NOTE 4)	13.6.8.3.3	RESTRAIN ALL (SEE NOTE 4)	13.6.8.3.3
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 4)	13.6.8.3.1	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 4)	13.6.8.3.1
DUCTWORK		RESTRAIN IF > 6 SQ.FT. AND > 17 LBS/FT (SEE NOTE 4,5)	13.6.7	RESTRAIN IF > 6 SQ.FT. AND > 17 LBS/FT (SEE NOTE 4,5)	13.6.7
MULTIPLE DUCTS ON TRAPEZE		RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTE 4,5)	13.6.7	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTE 4,5)	13.6.7

TABLE NOTES

1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING/DUCTWORK/CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.

PLUMBING SPECIFICATIONS

COMMON PIPING REQUIREMENTS
1. SUPPORTING DEVICES
   A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
2. INSTALLATION
   A. Install piping free of sags and bends.
   B. Install fittings for changes in direction and branch connections.
   C. Install sleeves for pipes passing through walls, gypsum-board partitions and concrete floor.
   D. Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast-iron pipes for wall sleeves.
   E. Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
3. HANGERS AND SUPPORTS
   A. Install building attachments within concrete or to structure. Install additional attachments at concentrated loads, and at changes in direction of piping.
   B. Load Distribution: Install hangers and supports so piping live and dead loading and stresses from movement will not be transmitted to connected equipment.

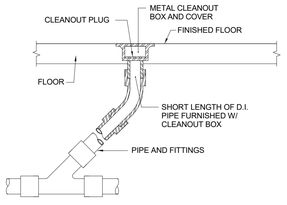
DOMESTIC WATER PIPING
1. PIPES AND TUBES
   A. Hard Copper Tube: ASTM B 88, Type L, water tube, drawn temper.
   B. Soft Copper Tube: ASTM B 88, Type K, water tube, annealed temper.
   C. Cross Linked Polyethylene: PEX Type-A.
2. FITTINGS
   A. Wrought- Copper, Solder-Joint Pressure Fittings: ASME B16.22.
   B. Cast-Copper-Alloy, Solder-Joing Pressure Fittings: ASME b16.18.
   C. Copper Unions: ASME B16.18, cast-copper-alloy body, hexagonal stock, with ball-and-socket joint, metal-to-metal seating surfaces, and solder-joint, threaded, or solder-joint and threaded ends. Threads complying with ASME B1.20.1.
   D. Ductile- and Gray-Iron Gasketed Fittings: AWWA C110 standard pattern or ductile-iron AWWA C153 compact pattern, 250-psig minimum pressure rating, with AWWA C104 cement-mortar lining and AWWA C111 rubber gaskets.
3. JOINING MATERIALS
   A. Solder Filler Metal: ASTM B 32, alloys to suit system requirements.
   B. Brazing Filler Metals: AWS A5.8, alloys to suit system requirements.
4. PIPING APPLICATIONS
   A. Install listed pipe materials and joint methods below in the following applications:
      1. Underground, Service Entrance Piping: soft copper tube, Type K, seamless.
      2. Aboveground: hard copper tube, Type L; wrought-copper or cast-copper-alloy pressure fittings; copper unions; bronze flanges; and solder joints with Alloy Sn95, Sn94, or E solder.
5. VALVE APPLICATIONS
   A. Install gate valves close to main on each branch and riser serving 2 or more plumbing fixtures or equipment connections and where indicated.
   B. Install gate or ball valves on inlet to each plumbing equipment item, on each supply to each plumbing fixture not having stops on supplies, and elsewhere as indicated.
   C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.
6. PIPING INSTALLATIONS
   A. Install hangers and supports at intervals indicated in the applicable Plumbing Code and as recommended by pipe manufacturer.
   B. Install water hammer arresters at location indicated and elsewhere as required for acceptable control of water shock.
7. INSPECTING AND CLEANING
   A. Inspect and test piping systems following procedures of authorities having jurisdiction.
   B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction.
8. PIPE INSULATION
   A. Cold water: 1/2-inch elastomeric, closed cell type (copper only).
   B. Hot water: 3/4-inch elastomeric, closed cell type (copper throughout, PEX within 8-ft of water heater).

SANITARY WASTE AND VENT PIPING
1. PIPES AND TUBES
   A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.
2. FITTINGS
   A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, made to ASTM D 3311; socket-type; drain, waste, and vent pipe patterns.
3. PIPE APPLICATIONS
   A. PVC Plastic, DWV Pipe; PVC socket-type drain, waste, and vent pipe pattern fittings; and solvent-cemented joints.
4. PIPING INSTALLATION
   A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer.
   B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains.
   C. ALL Buried plastic pipe and fittings shall be installed per ASTM D 2321.
5. INSPECTION
   A. Inspect and test piping systems following procedures of authorities having jurisdiction.

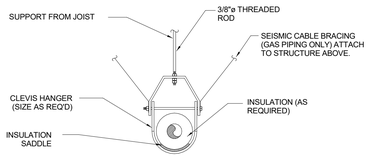
HUBLESS CAST IRON SOIL PIPE AND FITTINGS:

Hubless Cast Iron pipe and fittings shall be manufactured from gray cast iron and shall conform to ASTM A 888 and CISPI Standard 301. All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute ® and listed by NSF® International. Hubless Couplings shall conform to CISPI Standard 310 for standard couplings or ASTM C 1540 for heavy duty couplings where indicated. Gaskets shall conform to ASTM C 564. All pipe and fittings to be produced by a single manufacturer and are to be installed in accordance with manufacturer's recommendations and local code requirements. Couplings shall be installed in accordance with the manufacturer's band tightening sequence and torque recommendations. Tighten bands with a properly calibrated torque limiting device. Test the system hydrostatically after installation to 10 ft. of head (4.3 psi maximum). Testing with compressed air or gas may result in injury or death. All pipe and fittings are to be manufactured by Charlotte Pipe and Foundry Co. or equal.

PLUMBING FIXTURES
1. SECTION REQUIREMENTS
   A. Submit Product Data for each type of plumbing fixture.
   B. Comply with requirements of Public Law 102-486, "Energy Policy Act," regarding water flow rate and water consumption of plumbing fixtures.
2. See schedule, this sheet.
3. INSTALLATIONS
   A. Install fitting insulation kits on handicap-accessible fixtures.
   B. Install fixtures with flanges and gasket seals.
   C. Install tanks for accessible, tank-type water closets with lever handle mounted on wide side of compartment.
   D. Fasten wall-hanging plumbing fixtures securely to supports attached to building substrate when supports are specified, and to building wall construction where no support is indicated.
   E. Fasten floor-mounted fixtures to substrate. Fasten fixtures having holes for securing fixture to wall construction, to reinforcement built into walls.
   F. Fasten wall-mounted fittings to reinforcement built into walls.
   G. Fasten counter-mounting plumbing fixtures to casework.
   H. Secure supplies to supports or substrate within pipe space behind fixture.
   I. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
   J. Install water-supply stop valves in accessible locations.
   K. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated.
   L. Install escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep-patter escutcheons where required to conceal protruding pipe fittings.
   M. Seal joints between fixtures and walls, floors, and counters using sanitary-type, one-part, mildew-resistant, silicone sealant. Match sealant color to fixture color.
   N. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of handicap-accessible fixtures.
   O. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.



4 FLOOR CLEANOUT DETAIL
NO SCALE



10 PIPE SUPPORT DETAIL
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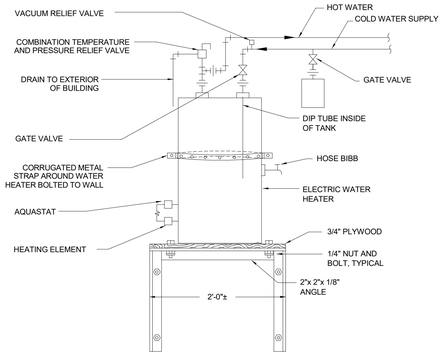
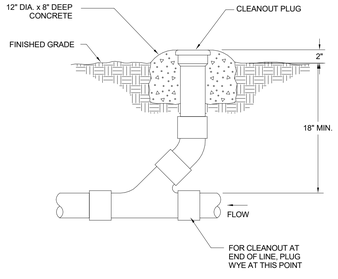


19 WATER HEATER DETAIL
NO SCALE



8 GRADE CLEANOUT DETAIL
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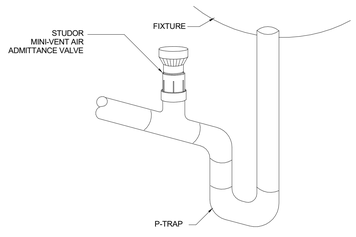
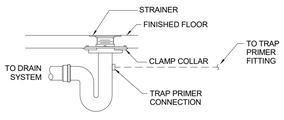


1 AIR ADMITTANCE VALVE DETAIL
NO SCALE



5 FLOOR DRAIN DETAIL
NO SCALE

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

GEORGETOWN BOBBY ALFORD PAVILION RENOVATION

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

PLUMBING SCHEDULES, DETAILS, SPECS

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	CJC
DATE	12/15/2022
SCALE	As indicated

P-401

12/23/2022 3:53:36 PM

MECHANICAL LEGEND

EF	EXHAUST FAN
HP	HEAT PUMP
◯	THERMOSTAT
⇥	DIRECTION OF AIRFLOW

MECHANICAL GENERAL NOTES

G1 PROVIDE LABOR, MATERIALS AND EQUIPMENT TO COMPLETE THE HVAC WORK INDICATED ON THE DRAWINGS AND AS REQUIRED BY LOCAL CODES AND ORDINANCES.

G2 FURNISH AND INSTALL HEATING AND COOLING UNITS AS INDICATED ON THE DRAWINGS.

G3 FABRICATE AND INSTALL DUCTWORK IN ACCORDANCE WITH SMACNA STANDARDS.

G4 INSTALL CONTROL SYSTEM COMPLETE WITH WIRING, COMPONENTS, ETC., TO PERFORM CONTROL SEQUENCE AS PER FACTORY RECOMMENDATIONS.

G5 INSTALL AND CONNECT THE HVAC SYSTEM IN STRICT ACCORDANCE WITH LOCAL CODES, ORDINANCES AND THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

G6 ADJUST CONTROLS AND EQUIPMENT FOR PROPER OPERATION. LUBRICATE AND CLEAN EQUIPMENT PRIOR TO ACCEPTANCE OF BUILDING BY OWNER.

G7 COORDINATE WORK WITH THE ELECTRICAL INSTALLER.

G8 FURNISH THE OWNER WITH OPERATING MANUALS AND MAINTENANCE INSTRUCTIONS FOR EQUIPMENT INSTALLED.

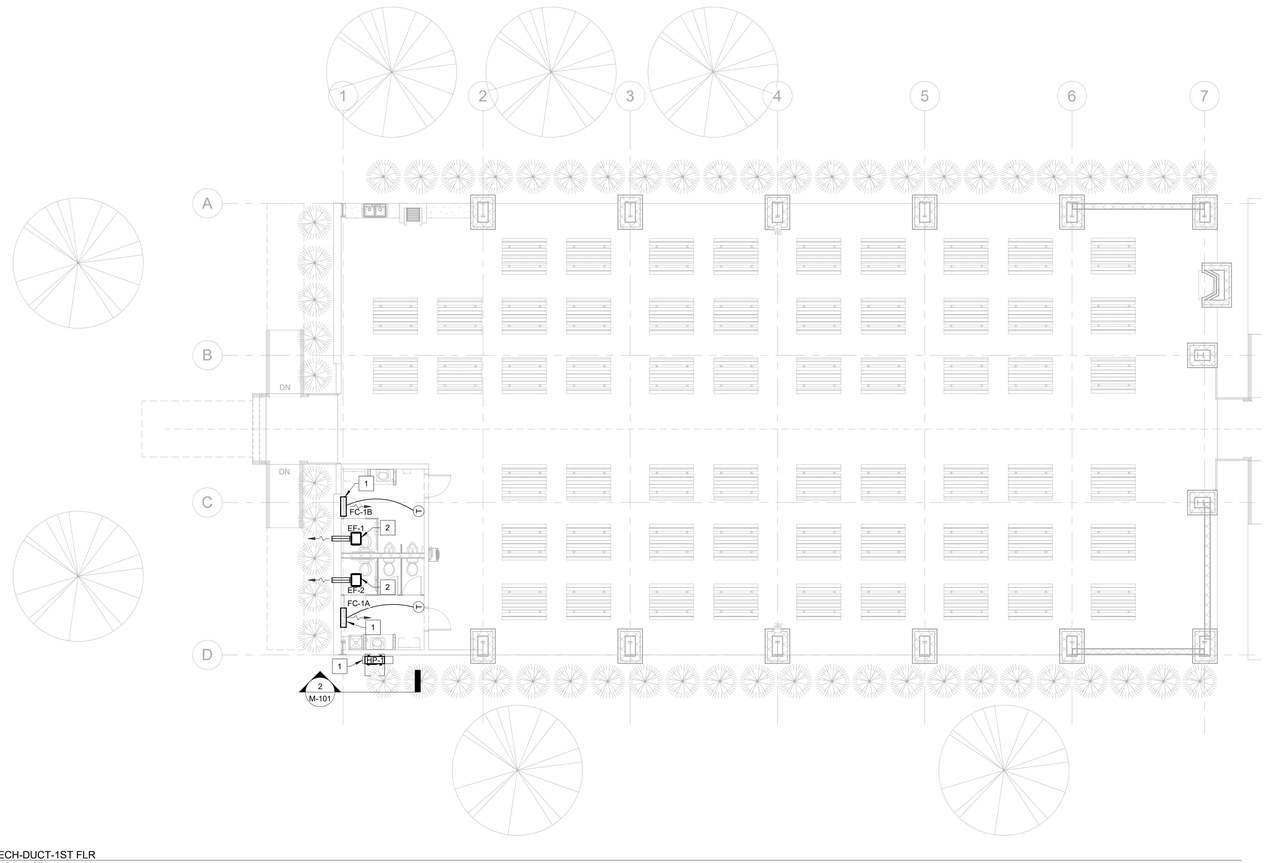
G9 GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS, USUAL WEAR EXPECTED. SHOULD SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE BUILDING BY THE OWNER, REPAIR AND/OR REPLACE DEFECTIVE ITEMS AND DAMAGE, RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE WHATSOEVER TO THE OWNER. PROVIDE FIVE (5) YEAR COMPRESSOR WARRANTY.

G10 ALL MECHANICAL WORK SHALL BE PERFORMED BY A MECHANICAL CONTRACTOR LICENSED BY SCLLR.

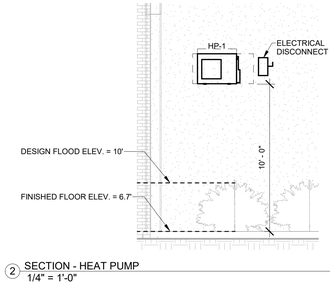
MECHANICAL DRAWING NOTES

1 PROVIDE NEW DUAL-PORT SPLIT SYSTEM HEAT PUMP (TRANE/MITSUBISHI OR EQUAL) WITH 12,000-BTUH OUTDOOR UNIT AND TWO DUCTLESS WALL MOUNT INDOOR UNITS (ONE EACH RESTROOM), 6,000-BTUH EACH. INCLUDE HARD-WIRED WALL MOUNTED THERMOSTATS AND INSULATED CONDESATE DRAIN LINES (GRAVITY) TO EXTERIOR. MOUNT OUTSIDE HEAT PUMP UNIT TO WALL USING MANUFACTURER APPROVED BRACKET 10 FEET ABOVE FINISHED GRADE.

2 PROVIDE NEW CEILING CABINET EXHAUST FAN (TYP OF 2) WITH 8-IN ROUND RIGID DUCT TO EXTERIOR WALL CAP. FAN BASIS OF DESIGN IS GREENHECK SP-A410. WALL CAP BASIS OF DESIGN IS DEFLECTO DAHC8 INCLUDE SPEED CONTROLLER MOUNTED ABOVE CEILING FOR INITIAL FAN SETUP. FAN SHALL BE CONTROLLED BY LIGHT SWITCH (SEE ELECTRICAL).



1 MECH-DUCT-1ST FLR
1/8" = 1'-0"



2 SECTION - HEAT PUMP
1/4" = 1'-0"

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

GEORGETOWN BOBBY ALFORD PAVILION RENOVATION

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ROSENBLUM COE ARCHITECTS, INC.
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MECHANICAL PLAN

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	CJC
DATE	12/15/2022
SCALE	As indicated

M-101

12/23/2022 3:53:30 PM

DESIGN LOAD CRITERIA

WIND RESTRAINT LOADING		SEISMIC RESTRAINT LOADING						
BASIC WIND SPEED	BUILDING CLASSIFICATION CATEGORY	SITE CLASS	BUILDING CATEGORY	IMPORTANCE FACTOR	RESPONSE MODIFICATION FACTOR	AMPLIFICATION FACTOR	SPECTRAL RESPONSE ACCELERATION (SHORT PERIODS) S_{DS}	SPECTRAL RESPONSE ACCELERATION (1-SEC PERIODS) S_{D1}
SEE STRUCTURAL		D	D	1.0	SEE STRUCTURAL		0.448G	0.239G

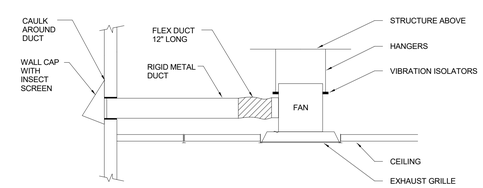
MINI-SPLIT SYSTEM HEAT PUMP SCHEDULE - MITSUBISHI

MARK			INDOOR SECTION				CAPACITIES (BTU/H)		ELECTRICAL (OUTDOOR UNIT)				
INDOOR UNIT	OUTDOOR UNIT	SYSTEM TYPE	TOTAL CFM	O.A. CFM	AIR ENTR.	E.S.P. I.W.G.	COOLING @ 95°F	HEATING @ 48°F	SYS. VOLTS	PHASE	MCA	MOCP	DESIGN BASIS
FC-1B	HP-15	WALL MOUNTED	399	-	80°F DB / 67°F WB	-	12,200	15,590	208 V	1	9 A	15	MITSUBISHI MSZ-GL09NA/MUZ-GL09NA
FC-1A	HP-15	WALL MOUNTED	399	-	80°F DB / 67°F WB	-	12,200	15,590	208 V	1	9 A	15	MITSUBISHI MSZ-GL09NA/MUZ-GL09NA

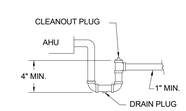
NOTES:
1. INDOOR UNIT ELECTRICAL IS FED FROM OUTDOOR UNIT.
2. FAN SECTIONS SHALL BE FACTORY PROVIDED WITH INTERNAL VIBRATION ISOLATION.
3. INSTALL INSULATED PVC DRIP PAN LINES FROM FC PIPED TO EXTERIOR.
4. PROVIDE ACCUMULATORS AND OTHER EQUIPMENT AS RECOMMENDED BY MANUFACTURER FOR EXTENDED REFRIGERANT LINE LENGTHS.
5. PROVIDE ALL FAN COIL UNITS WITH AN INTEGRAL CONDENSATE PUMP.

EXHAUST FAN SCHEDULE

MARK	MFR	MODEL	CFM	ST PR (IWG)	DRIVE	FAN RPM	MOTOR W/HP	ELECTRICAL VOLTS	ELECTRICAL PHASE	CONTROL
EF-1	GREENHECK	SP-A410	225	0.2	DIRECT	734	121 W	120 V	1	LIGHT SWITCH, SEE ELECTRICAL
EF-2	GREENHECK	SP-A410	225	0.2	DIRECT	734	121 W	120 V	1	LIGHT SWITCH, SEE ELECTRICAL



3 EXHAUST FAN CAP DETAIL
NO SCALE



1 CONDENSATE DRAIN DETAIL
NO SCALE

SEISMIC DESIGN CATEGORY D

GENERAL NOTES
A. PER THE **2015 SOUTH CAROLINA** BUILDING CODE, MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT AND COMPONENTS, INCLUDING THEIR SUPPORTS AND ATTACHMENTS, SHALL BE DESIGNED FOR SEISMIC FORCES IN ACCORDANCE WITH CHAPTER 13 OF ASCE 7-10.
B. EXTERIOR EQUIPMENT (INCLUDING ROOF CURBS, RAILS, SUPPORTS) EXPOSED TO WIND SHALL BE DESIGNED AND INSTALLED TO RESIST THE WIND PRESSURES DETERMINED IN ACCORDANCE WITH CHAPTERS 26 TO 29 OF ASCE 7-10.
C. WHERE DESIGN FOR SEISMIC AND WIND LOADS IS REQUIRED, THE MORE DEMANDING FORCE MUST BE USED.
D. REFERENCE THE STRUCTURAL DRAWINGS FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY, WIND SPEEDS, ETC.
E. SEE DESIGN LOAD CRITERIA TABLE, THIS SHEET, FOR SPECIFIC COMPONENT IMPORTANCE FACTOR DESIGNATIONS.
F. USE TABLE BELOW TO DETERMINE SEISMIC RESTRAINT REQUIREMENTS FOR EACH COMPONENT.
G. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL.
H. SEISMIC RESTRAINTS FOR DUCTWORK AND PIPING MUST BE SHOWN ON LAYOUT DRAWINGS SHOWING SPECIFIC RESTRAINT LOCATIONS ALONG WITH ACCOMPANYING DETAILS AND CALCULATIONS.

COMPONENT IDENTIFICATION		COMPONENT IMPORTANCE FACTOR (Ip) 1.0		1.5	
		SEISMIC RESTRAINT REQUIREMENT	ASCE 7-10 REFERENCE	SEISMIC RESTRAINT REQUIREMENT	ASCE 7-10 REFERENCE
ROOF MOUNTED		RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
FLOOR MOUNTED		RESTRAIN ALL (SEE NOTES 1,2)	13.1.4.6	RESTRAIN ALL	13.1.4.6
WALL MOUNTED		RESTRAIN ALL (SEE NOTE 1,2)	13.1.4.6	RESTRAIN ALL	13.1.4.6
COMPONENT SUPPORTS		RESTRAIN ALL (SEE NOTE 1)	13.6.5	RESTRAIN ALL	13.6.5
SUSPENDED EQUIPMENT	INLINE W/ DUCT/PIPE	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.7	RESTRAIN IF >75 LBS PROVIDE FLEX. CONN. (SEE NOTE 3)	13.6.7
	NOT INLINE W/ DUCT/PIPE	RESTRAIN ALL (SEE NOTE 1)	13.1.4.6	RESTRAIN ALL	13.1.4.6
SUSPENDED DUCTILE PIPING (STEEL, ALUMINUM, COPPER, ETC.)		RESTRAIN IF > 3" (SEE NOTE 4)	13.6.8.3.3.c	RESTRAIN IF > 1" (SEE NOTE 4)	13.6.8.3.3.b
SUSPENDED NON-DUCTILE PIPING (CAST IRON, PLASTIC, CERAMIC)		RESTRAIN ALL (SEE NOTE 4)	13.6.8.3.3	RESTRAIN ALL (SEE NOTE 4)	13.6.8.3.3
SUSPENDED PIPE ON TRAPEZE		RESTRAIN IF ANY PIPE ON TRAPEZE > 3" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 4)	13.6.8.3.1	RESTRAIN IF ANY PIPE ON TRAPEZE > 1" RESTRAIN IF TOTAL WEIGHT OF PIPES ON TRAPEZE > 10 LBS/FT (SEE NOTE 4)	13.6.8.3.1
DUCTWORK		RESTRAIN IF > 6 SQ.FT. AND > 17 LBS/FT (SEE NOTE 4,5)	13.6.7	RESTRAIN IF > 6 SQ.FT. AND > 17 LBS/FT (SEE NOTE 4,5)	13.6.7
MULTIPLE DUCTS ON TRAPEZE		RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTE 4,5)	13.6.7	RESTRAIN IF TOTAL WEIGHT OF DUCTS ON TRAPEZE > 10 LBS/FT (SEE NOTE 4,5)	13.6.7

TABLE NOTES
1. EQUIPMENT 20 LBS. OR LESS IS EXEMPT IF THE COMPONENT IS POSITIVELY ATTACHED TO THE STRUCTURE, AND FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF THE COMPONENT WEIGHS 400 LBS. OR LESS, IS MOUNTED WITH THE CENTER OF MASS AT 4 FT. OR LESS ABOVE A FLOOR, IS POSITIVELY ATTACHED TO THE STRUCTURE, AND HAS FLEXIBLE CONNECTIONS BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
4. RESTRAINT IS NOT REQUIRED IF THE PIPING/DUCTWORK/CONDUIT IS SUPPORTED BY HANGERS AND EACH HANGER IN THE PIPING RUN IS 12 IN. OR LESS IN LENGTH FROM THE TOP OF THE PIPE TO THE SUPPORTING STRUCTURE. WHERE PIPES ARE SUPPORTED ON A TRAPEZE, THE TRAPEZE SHALL BE SUPPORTED BY HANGERS HAVING A LENGTH OF 12 IN. OR LESS. WHERE ROD HANGERS ARE USED, THEY SHALL BE EQUIPPED WITH SWIVELS, EYE NUTS OR OTHER DEVICES TO PREVENT BENDING IN THE ROD.
5. ALL DUCTWORK, REGARDLESS OF SIZE, DESIGNED TO CARRY TOXIC, HIGHLY TOXIC, OR EXPLOSIVE GASES OR USED FOR SMOKE CONTROL MUST BE RESTRAINED.

MECHANICAL SPECIFICATIONS

MECHANICAL INSULATION
1. SECTION REQUIREMENTS
   A. Summary: Mechanical insulation includes duct insulation for indoor applications.
   B. Submit Product Data for each type of mechanical insulation.
   C. Quality Assurance: UL labeled with maximum flame-spread rating of 25 and maximum smoke-developed rating of 50 according to ASTM E 84.
2. DUCT AND EQUIPMENT INSULATION
   A. Glass-Fiber-Blanket Insulation: ASTM C 553, Type II, Class F1, jacketed blankets with a k-value of 0.31 at 75 deg F mean temperature.
3. INSTALLATION
   A. Seal vapor-barrier penetrations for hangers, supports, anchors, and other projections.
   B. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions.
   C. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor.
   D. Interior Piping System Applications: Insulate the following piping systems:
      1. Refrigerant suction piping.
   E. Install duct insulation as follows:
      1. Install insulation continuously on ducts. Maintain insulation vapor retarder on supply duct.
      2. Install removable or segmented insulation on access panel and doors.
      3. Install vapor barriers on insulated ducts and plenums with surface operating temperatures below 60 deg F. Seal joints and seams to maintain vapor barrier on insulation requiring a vapor barrier.
      4. Seal penetrations for hangers, supports, anchors, and other projections in insulation requiring a vapor barrier.
      5. Blanket Insulation Installation: Bond ducts having long sides or diameters smaller than 24 inches with bonding adhesive applied in 6-inch- wide transverse strips on 12-inch centers. Bond ducts having long sides or diameters 24 inches and larger with anchor pins spaced 12 inches apart each way. Apply bonding adhesive to prevent sagging of insulation. Overlap joints 3 inches. Seal joints, breaks, and punctures with vapor-barrier compound.
   F. Do not apply insulation to the following systems, materials, and equipment:
      1. Factory-insulated flexible ducts.
      2. Factory-insulated plenums, casings, terminal boxes, and filter boxes and sections.
      3. Flexible connectors.
      4. Vibration-control devices.
      5. Testing laboratory labels and stamps.
      6. Nameplates and data plates.
   G. Duct Insulation Thickness and Application Schedule: Insulate ducts with the following material and thickness:
      1. Concealed Applications: Fiberglass blanket, 3 inches thick.

REFRIGERANT PIPING
1. PIPES AND TUBES
   A. Hard Copper Tube: ASTM B 280, Type ACR, drawn temper.
   B. Soft Copper Tube: ASTM B 280, Type ACR, annealed temper.
2. FITTINGS
   A. Copper Fittings: ASME B16.22, wrought-copper streamlined pattern.
3. JOINING MATERIALS
   A. Brazing Filler Metals: AWS A5.8, Classification BAg-1 (Silver).
4. INSTALLATION
   A. Install refrigerant piping according to ASHRAE 15.
   B. Below ground, install copper tubing in conduit. Vent conduit outdoors.
   C. Insulate suction lines and liquid lines, but insulate them together if adjacent.
   D. Install unions to allow removal of solenoid valves, pressure-regulating valves, expansion valves, and at connections to compressors and evaporators.
   E. Charge and purge systems, after testing, and dispose of refrigerant by following ASHRAE 15 procedures.
   F. Provide locking refrigerant caps at heat pumps per IMC 1101.10.

CONDENSATE DRAIN PIPING
1. PIPES AND TUBES
   A. PVC Plastic, Schedule 40, plain ends.
2. FITTINGS
   A. PVC Plastic, solvent cement joints.
3. INSTALLATION
   A. Support pipe as indicated and per manufacturer's recommendations.
   B. Apply manufacturer's recommended coating for protection from sun where exposed. Insulate entire length with 3/4" elastomeric.

CONDENSING UNITS
1. SECTION REQUIREMENTS
   A. Submit Product Data
2. MECHANICAL-DRAFT, AIR-COOLED REFRIGERANT HEAT PUMP CONDENSING UNITS
   A. See Schedule, This sheet.
3. ACCESSORIES
   A. Prechanged and insulated refrigerant suction and liquid tubing.
   B. Head-pressure control to modulate condenser-fan motor speed for low ambient conditions.
   C. Low-voltage control transformer.
4. INSTALLATION
   A. Install units level and plumb, and maintain recommended clearances.
   B. Install ground-mounted units on 4-inch- thick reinforced-concrete base or 6-inch reinforced base as indicated. Anchor unit to pad using inserts or anchor bolts.
   C. Install electrical devices.

AIR HANDLING UNITS
1. SECTION REQUIREMENTS
   A. Submit Product Data.
2. FACTORY-ASSEMBLED UNITS
   A. See Schedule, This sheet.
   B. Assembled and tested units with electric-resistance heating coil, refrigerant cooling coil, disposable filters, direct-drive centrifugal fans, galvanized steel condensate drain pan and furniture-grade steel cabinet.
   C. Arrangement: suspended above ceiling from roof structure - see detail.
   D. Cabinet Finish: Bonderized, phosphatized, baked-enamel finish in manufacturer's standard color selected by Architect.
3. INSTALLATION
   A. Install units level and plumb and firmly anchored.
   B. Connect units to wiring systems and to ground.

DUCTS AND ACCESSORIES
1. SECTION REQUIREMENTS
   A. Summary: Metal and nonmetal ducts and accessories in pressure classes 2 inch wg (500 Pa) or less.
   B. Comply with 90A.
2. DUCTS
   A. Galvanized Sheet Steel: Lock-forming quality, ASTM A 653, G90 (ASTM A 653M, Z275).
   B. Joint and Seam Tape: Comply with UL 181A.
   C. Joint and Seam Sealant: Comply with UL 181A.
   D. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard for metal thickness, reinforcing types and intervals, tie-rod applications, and joint types and intervals.
3. ACCESSORIES
   A. Volume-Control Dampers: Factory-fabricated volume-control dampers, complete with required hardware and accessories. Single-blade and multiple opposed-blade, standard leakage rating, and suitable for horizontal or vertical applications.
   B. Flexible Connectors: Flame-retarded or noncombustible fabrics, coatings, and adhesives complying with UL 181, class 1.
4. INSTALLATION
   A. Duct System Pressure Class: Construct and install each duct system for low pressure duct classification.
   B. Conceal ducts from view in finished and occupied spaces, unless noted otherwise on the drawings.
   C. Avoid passing through electrical equipment spaces and enclosures.
   D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
   E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
5. TESTING, ADJUSTING, AND BALANCING
   A. Balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities
   B. Provide reports to Engineer which are prepared by AABC or NEBB certified testing and balancing company.

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

GEORGETOWN BOBBY ALFORD PAVILION RENOVATION

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MECHANICAL SCHEDULES, DETAILS, SPECS

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	CJC
DATE	12/15/2022
SCALE	As indicated

M-201

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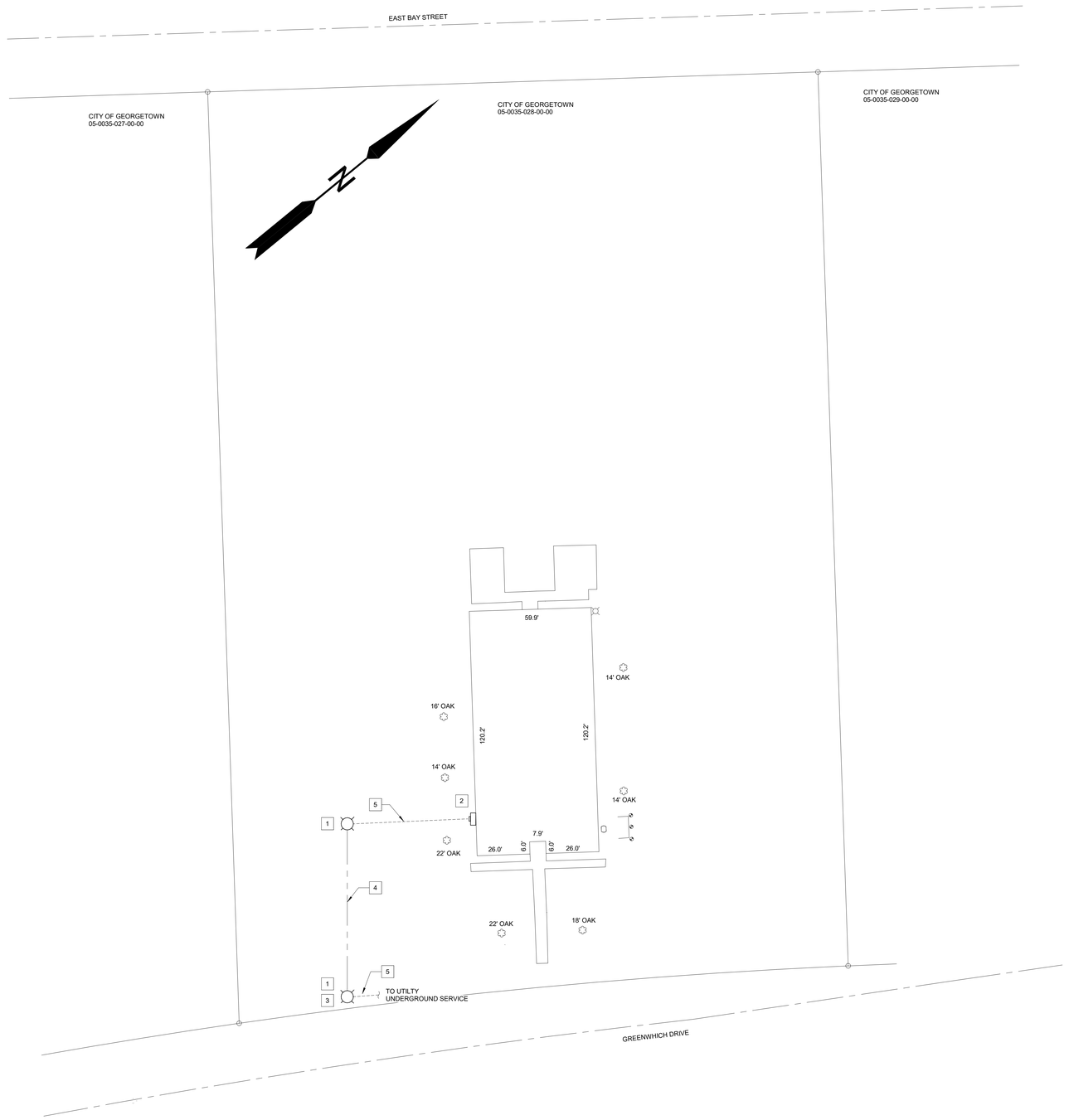

1 ELECTRICAL SITE PLAN
1/2" = 1'-0"

ELECTRICAL LEGEND

- PANELBOARD- SEE PANEL SCHEDULE FOR ADDITIONAL INFORMATION
- 125V, 20A DUPLEX RECEPTACLE MOUNT @ 42" AFF UNLESS NOTED OTHERWISE
- 125V, 20A DUPLEX RECEPTACLE WITH GFI "w" INDICATES WEATHERPROOF
- S — WALL SWITCH, 125V, 20A
- S(P) — WALL MOUNTED OCCUPANCY SENSOR SWITCH STYLE
- S(D) — 0-10V DIMMER SWITCH
- P#-## — HOMERUN OF CIRCUIT TO PANEL INDICATED - CIRCUIT NUMBERS INDICATED. WIRING, AWG#12 UNLESS INDICATED OTHERWISE ON DRAWINGS.

ELECTRICAL GENERAL NOTES

G1 FURNISH ALL MATERIALS AND LABOR NECESSARY TO PROVIDE COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEMS. FURNISH ALL MATERIALS AND LABOR NECESSARY TO DEMONSTRATE TO THE OWNER AND TO THE ENGINEER THAT ALL SYSTEMS ARE OPERATING PROPERLY AND AS SPECIFIED. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.

G2 ENSURE THAT ALL WORK CONFORMS TO THE LATEST EDITION OF: A) ANSI/NFPA 70 (NATIONAL ELECTRICAL CODE), B) NECA STANDARD OF INSTALLATION, C) INTERNATIONAL BUILDING CODE, D) NFPA 101 (LIFE SAFETY CODE), E) ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES, F) LOCAL UTILITY COMPANY REGULATIONS.

G3 FOR ALL MATERIALS, EQUIPMENT AND DEVICES, AS MINIMUM, MEET THE REQUIREMENTS OF U.L. WHERE U.L. STANDARDS ARE ESTABLISHED FOR THOSE ITEMS, AND THE REQUIREMENTS OF THE NFPA 70. ALL ITEMS SHALL BE CLASSIFIED BY U.L. AS SUITABLE FOR THE PURPOSE USED.

G4 COORDINATE LOCATION OF ELECTRICAL DEVICES AND ELECTRICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. NUMBERS ADJACENT TO DEVICES ARE NOMINAL MOUNTING HEIGHTS.

G5 PROVIDE ALL THE INTERCONNECTING POWER WIRING AND CONDUIT, CONTROL WIRING RATED 120 VOLTS (NOMINAL) AND CONDUIT, AND THE ELECTRICAL POWER CIRCUITS FOR ALL EQUIPMENT PROVIDED BY OTHER TRADES.

G6 COORDINATE WITH AND OBTAIN PERMITS AND INSPECTIONS FROM THE AUTHORITY HAVING JURISDICTION, AND INCLUDE ALL FEES IN BID.

G7 PROVIDE A LAMINATED PLASTIC NAMEPLATE FOR EACH MAJOR ITEM OF ELECTRICAL EQUIPMENT (E.G. PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS, ETC.). ATTACH WITH SCREWS, BOLTS OR RIVETS.

G8 BOND THE NEUTRAL AND GROUND BUS TOGETHER AT THE SERVICE EQUIPMENT ONLY. BOND THE GROUNDING CONDUCTOR TO THE GROUNDING ELECTRODE SYSTEM, COMPRISED OF A 3/4"x10' DRIVEN GROUND ROD, METALLIC PIPING, BUILDING STEEL, ETC. PROVIDE INSULATED NEUTRALS FOR ALL SUBPANELS PER N.E.C. ARTICLE 250.

G9 PROVIDE MINIMUM SIZE OF #12 CONDUCTOR FOR 20A POWER CIRCUITS LESS THAN 75'-0" IN LENGTH. OTHERWISE, PROVIDE MINIMUM CONDUCTOR SIZE OF #10. PROVIDE MINIMUM SIZE OF #12 AWG FOR POWER AND LIGHTING CIRCUITS AND #16 FOR CONTROL CIRCUITS UNLESS NOTED OTHERWISE. INSTALL ALL WIRING IN CONDUIT UNLESS NOTED OTHERWISE.

G10 SUPPORT ALL CONDUIT ABOVE CEILING FROM BUILDING STRUCTURAL MEMBERS OR CONCRETE DECKING, NOT FROM CEILING GRID OR GRID HANGER WIRES.

G11 PROVIDE ALL MOUNTING BRACKETS, HANGERS, CLIPS, ETC. AS NECESSARY TO MOUNT AND SECURE LIGHT FIXTURES IN LOCATIONS SHOWN AND AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION INTENDED.

G12 WHERE CONDUIT PENETRATES FIRE RATED BARRIERS (WALLS, FLOORS AND CEILINGS), SEAL THE OPENING AROUND THE CONDUIT WITH U.L. LISTED FIRE STOPPING MATERIAL TO MAINTAIN THE FIRE RATING OF THE BARRIER.

G13 THE CLEARANCE AROUND PANELS SHALL COMPLY WITH NEC AND IFC 605.3 WORKING SPACE AND CLEARANCE. A WORKING SPACE OF NOT LESS THAN 30 INCHES (762 MM) IN WIDTH, 36 INCHES (914 MM) IN DEPTH AND 78 INCHES (1981 MM) IN HEIGHT SHALL BE PROVIDED IN FRONT OF ELECTRICAL SERVICE EQUIPMENT. WHERE THE ELECTRICAL SERVICE EQUIPMENT IS WIDER THAN 30 INCHES (762 MM), THE WORKING SPACE SHALL NOT BE LESS THAN THE WIDTH OF THE EQUIPMENT. NO STORAGE OF ANY MATERIALS SHALL BE LOCATED WITHIN THE DESIGNATED WORKING SPACE. PROVIDE STRIPING ON THE FLOOR AROUND ELECTRICAL PANELS TO CLEARLY IDENTIFY/INDICATE CLEARANCE AREA/NO STORAGE AREA.

G14 ALL ELECTRICAL WORK SHALL BE PERFORMED BY AN ELECTRICAL CONTRACTOR LICENSED BY SCLLR.

ELECTRICAL DRAWING NOTES

1 LOT LIGHT/POWER POLE IS EXISTING TO REMAIN, SHOWN FOR REFERENCE.

2 LOCATION OF MAIN ELECTRICAL SERVICING AND METERING, SHOWN FOR REFERENCE, SEE 3/E-101.

3 LOCATION OF EXISTING POLE-MOUNTED UTILITY TRANSFORMER.

4 EXISTING OVER-HEAD SERVICE CONDUCTORS.

5 EXISTING UNDERGROUND SERVICE CONDUCTORS, VERIFY EXACT LOCATION WITH UTILITY.

SEALS

CONSTANTINE ENGINEERING ASSOCIATES, LLC C-04361

SEAL 16540

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

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ELECTRICAL SITE PLAN

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	WFQ
CHECKED BY	JCM
DATE	12/15/2022
SCALE	As indicated

E-001

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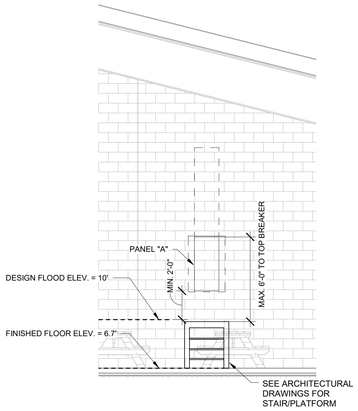
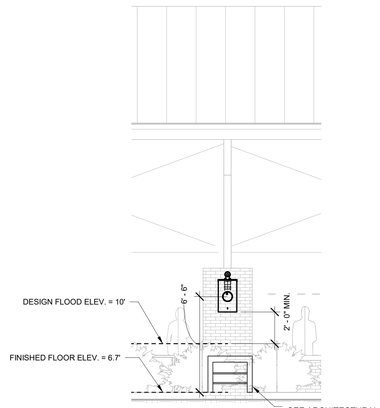
ELECTRICAL DRAWING NOTES

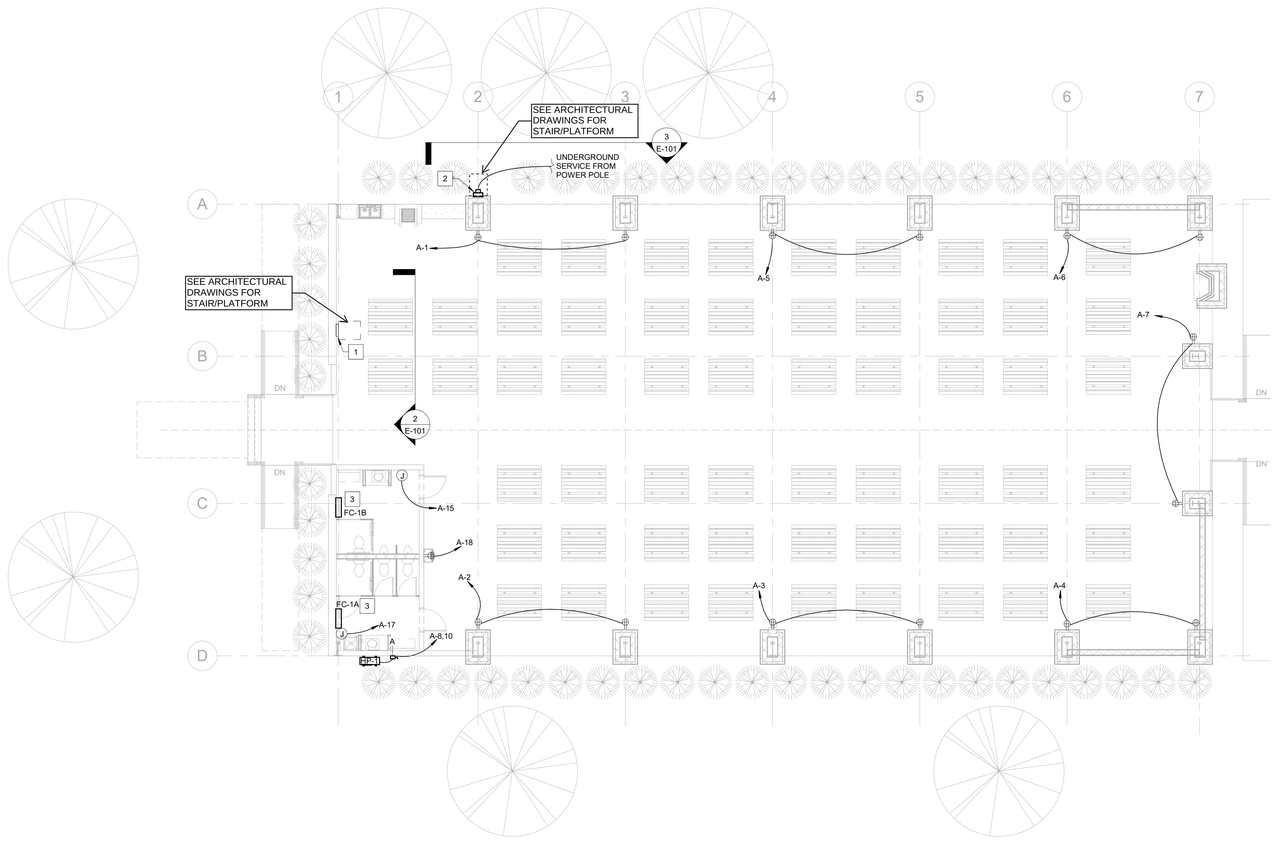
1. PROVIDE NEW 120-240V/1PH/200A ELECTRICAL PANEL-A, 42-SPACE, WITH MAIN CIRCUIT BREAKER, 22-KAIC, SURFACE MOUNTED ON CMU WALL AS INDICATED.
2. PROVIDE NEW ELECTRICAL METER CABINET (120-240V/1PH) WITH INTEGRAL 200A MAIN SERVICE DISCONNECT. COORDINATE WITH LOCAL ELECTRICAL UTILITY TO RECONNECT TO EXISTING UNDERGROUND SERVICE.
3. INDOOR UNIT ELECTRICALLY FED FROM OUTDOOR UNIT. COORDINATE EXACT REQUIREMENTS WITH MECHANICAL INSTALLER PRIOR TO ROUGH-IN.



2 SECTION - PANELBOARD
1/4" = 1'-0"



3 SECTION - ELECTRICAL METER
1/4" = 1'-0"



1 POWER-1ST FLR
1/8" = 1'-0"

SEAL CAROLINA — CONSTANTINE ENGINEERING ASSOCIATES, LLC C-043043 — CERTIFICATE OF AUTHORIZATION

REGISTERED PROFESSIONAL ENGINEER — SEAL 40426 — JOHN C. MARSHALL

SEALS

NOTES:

CONSTRUCTION DOCUMENTS

REVISIONS		

GEORGETOWN BOBBY ALFORD PAVILION RENOVATION

310 Greenwich Drive
Georgetown, SC 29442

ROSENBLUM COE ARCHITECTS, INC

ROSENBLUM COE ARCHITECTS, INC.
1643 MEANS STREET
CHARLESTON, SC 29412
843.577.6073

ELECTRICAL PLAN - POWER

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	JCM
DATE	12/15/2022
SCALE	As indicated

E-101

12/23/2022 3:53:25 PM

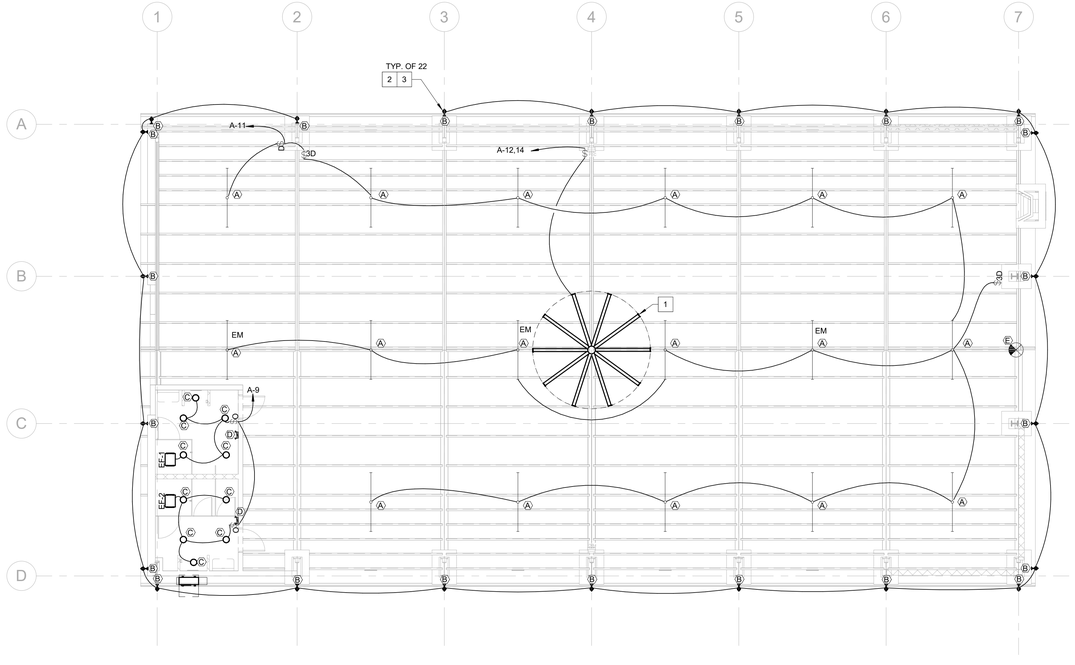
LIGHT FIXTURE SCHEDULE

FINAL LIGHT SELECTIONS BY OWNER/ARCHITECT. COORDINATE PRIOR TO PURCHASE. FIXTURES SHOWN ARE USED FOR DESIGN PURPOSES AND PERFORMANCE ONLY. ALTERNATE MANUFACTURERS ARE ACCEPTABLE UPON WRITTEN APPROVAL BY ENGINEER. PRODUCTS SHALL BE EQUIVALENT TO OR BETTER THAN DESIGN BASIS INDICATED IN THIS SCHEDULE.

LABEL	DESCRIPTION	CAT. #	VOLTAGE	LUMENTS	CCT	WATTS	NOTES
A	8' LED STRIP LIGHT, AIRCRAFT CABLE SUSPENSION & 2x 48" WIREGUARDS	LITHONIA TZL1N-L96-SMR-10000LM--FST-MVOLT-30K-90CR-ZACVH-WGZ48	UNV	9036	3000 K	68 W	FOR FIXTURES NOTED "EM", PROVIDE BATTERY BACKUP OPTION "E7W"
B	WALL MOUNT VAPOR JAR LIGHT WITH ONE (1) MEDIUM BULB BASE AND WIRE GUARD CAGE, DARK GREEN FINISH, FROSTED GLASS	BASELITE W2CL2G	120V		3000 K	15 W	PROVIDE ONE (1) 15W MAXIMUM LED BULB WITH FIXTURE
C	11"-0", ROUND, FLUSH MOUNT, LOW PROFILE LED LIGHT FIXTURE	LITHONIA FMLRL-11-14830	120V	1104	3000 K	16 W	
D	INTERIOR, WALL-MOUNTED LED EMERGENCY LIGHT WITH 90 MIN BATTERY BACKUP	LITHONIA EU2C-M6	UNV	-	0 K	3 W	CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROLS
X	SURFACE MOUNT, WHITE, WET LOCATION LED EXIT SIGN WITH RED LETTERS AND A 90-MINUTE BATTERY BACKUP	LITHONIA WLTE-W-1-R-EL-SD	UNV	-	0 K	0 W	CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF CONTROLS

ELECTRICAL DRAWING NOTES

1. PROVIDE BID ALTERNATE (ALTERNATE #2) FOR ONE (1) OVERHEAD CIRCULATION FAN WITH INDIVIDUAL SWITCHED CONTROL (VARIABLE SPEED). DESIGN BASIS "BIG ASS FANS" MODEL "BASIC 6", 14-FT DIAMETER, 240/1PH/25A. MOUNT TO ROOF STRUCTURE.
2. MOUNT FIXTURE AT 96" AFG, AS MEASURED TO CENTER OF MOUNTING CANOPY.
3. PROVIDE SEPARATELY ORDERED 30W EMERGENCY BALLAST WITH FIXTURE.



1 LIGHT-1ST FLR
1/8" = 1'-0"

SEALS

NOTES:

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REVISIONS		

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CHARLESTON, SC 29412
843.577.6073

ELECTRICAL PLAN - LIGHTING

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	JCM
DATE	12/15/2022
SCALE	1/8" = 1'-0"

E-201

12/23/2022 3:53:26 PM

DISCONNECT SCHEDULE

LABEL	NEMA RATING	POLES	SIZE	FUSE	FEEDER
A	3R	2	30	15 A	3#12,1#12G,3/4"C

Branch Panel: A

Location:
Supply From:
Mounting: RECESSED
Enclosure: NEMA 1

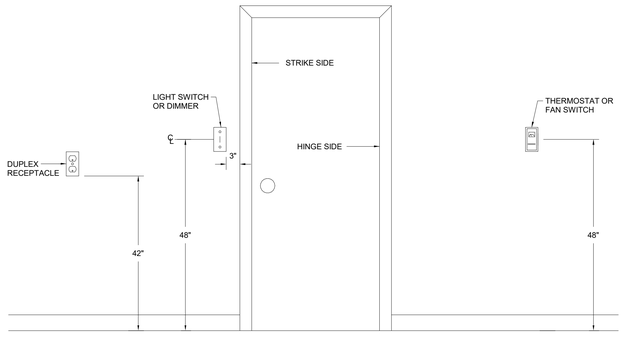
Volts: 120/240 Single
Phases: 1
Wires: 3

A.I.C. Rating:
Mains Type: 200 A
Mains Rating: 225 A
MCB Rating: 200 A

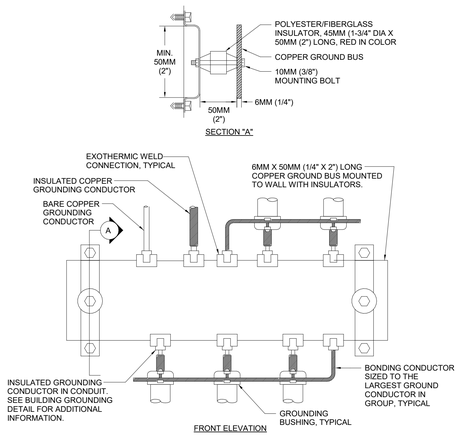
Notes:

CKT	Circuit Description	Trip	Poles	A		B		Poles	Trip	Circuit Description	CKT
1	GENERAL AREA RECEPTACLES	20 A	1	360 VA	360 VA			1	20 A	GENERAL AREA RECEPTACLES	2
3	GENERAL AREA RECEPTACLES	20 A	1			360 VA	360 VA	1	20 A	GENERAL AREA RECEPTACLES	4
5	GENERAL AREA RECEPTACLES	20 A	1	360 VA	360 VA			1	20 A	GENERAL AREA RECEPTACLES	6
7	GENERAL AREA RECEPTACLES	20 A	1			360 VA	625 VA	2	20 A	HP-1	8
9	RESTROOM LIGHTS	20 A	1	160 VA	625 VA						10
11	GENERAL AREA/BBQ LIGHTS	20 A	1			1156 VA	550 VA	2	20 A	CIRCULATING FAN	12
13	BUILDING EXTERIOR LIGHTS	20 A	1	330 VA	550 VA						14
15	HAND DRYER	20 A	1			1500 VA	0 VA	1	20 A	Spare	16
17	HAND DRYER	20 A	1	1500 VA	500 VA			1	20 A	WATER BOTTLE FILLER	18
19	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	20
21	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	22
23	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	24
25	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	26
27	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	28
29	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	30
31	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	32
33	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA	1	20 A	Spare	40
41	Spare	20 A	1	0 VA	0 VA			1	20 A	Spare	42
			Total Load:	5105 VA		4867 VA					
			Total Amps:	43 A		41 A					

Legend:

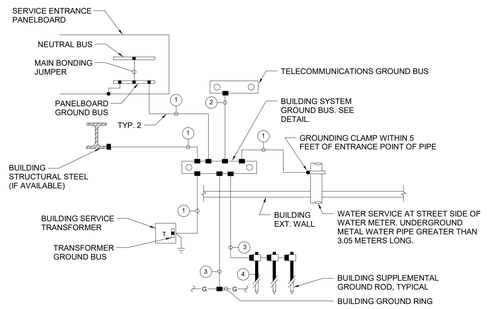


4 MOUNTING HEIGHTS DETAIL
NO SCALE



NOTE:
REFER TO BUILDING GROUNDING ELECTRODE SYSTEM DETAIL FOR EXACT CONFIGURATION.

1 BUILDING ELECTRICAL SYSTEM GROUND BUS
NO SCALE



LEGEND:

- ● INDICATES BOLTED CONNECTION.
- ■ INDICATES EXOTHERMIC WELD CONNECTION, COMPATIBLE WITH MATERIALS BEING JOINED.
- (1) 4/0 AWG INSULATED COPPER GROUND CONDUCTOR IN 30mm CONDUIT.
- (2) 2/0 AWG INSULATED COPPER GROUND CONDUCTOR IN 30mm CONDUIT.
- (3) 4/0 AWG BARE COPPER GROUND CONDUCTOR.
- (4) 19mm x 3050mm 3 (3/4" x 10'-0" EACH) LONG COPPER-CLAD GROUND ROD DRIVEN IN TRIAD CONFIGURATION WITH TOP 300mm (12") BELOW GRADE. PER NEC SECTION 250.

3 BUILDING GROUNDING ELECTRODE SYSTEM
NO SCALE

ELECTRICAL SPECIFICATIONS

WIRING METHODS
I. SECTION REQUIREMENTS
A. Summary: Building wires and cables and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.
II. WIRES AND CABLES
A. Building Wires and Cables: Type THHN/XHHW copper conductor rated for operation at 90°C.
B. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated. Terminals to be rated for operation at 75°C.
C. Use of type MC Cable is permitted in accordance with NEC.
III. RACEWAYS
A. Conduit: Comply with the following:
1. Rigid Steel Conduit: ANSI C80.1
2. Intermediate Metal Conduit: ANSI C80.6.
3. Electrical metallic Tubing: ANSI C80.3.
4. Rigid Nonmetallic Conduit: NEMA TC 2, Schedule 40.
B. Wireways: Hinged type, with manufacturers standard finish.
C. Outlet and Device Boxes: UL listed and labeled sheet metal boxes.
D. Floor Boxes: Cast metal, fully adjustable, rectangular.
E. Pull and Junction Boxes: Small sheet metal boxes.
IV. INSTALLATION
A. Install wires and cables according to the NECA's "Standard of Installation."
B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
C. Outdoors Wiring Methods: As follows:
1. Exposed: Rigid or intermediate metal conduit.
2. Concealed: Rigid or intermediate metal conduit.
3. Underground, Single Run: Rigid nonmetallic conduit.
4. Underground, Grouped: Rigid nonmetallic conduit.
D. Connection to Vibrating Equipment (Including Electric Solenoid or Motor-Driven Equipment): Liquid tight flexible metal conduit.
E. Indoors Wiring Methods: As follows:
1. Connection to Vibrating Equipment (Including Electric Solenoid or Motor-Driven Equipment): Flexible metal conduit, except in wet or damp locations use liquid tight flexible metal conduit.
2. Damp or Wet Locations: Rigid steel conduit.
3. Exposed: Electrical metallic tubing.
4. Concealed: Electrical metallic tubing.
5. Boxes and Enclosures: NEMA 250, Type 1, except in damp or wet locations use NEMA 250, Type 4, stainless steel.
6. Install raceways, boxes, enclosures, and cabinets as indicated, according to manufacturer's written instructions.
7. Conceal conduit and electrical metallic tubing, unless otherwise indicated, within finished walls, ceilings, and floors.
8. Cabled electrical conductors may be utilized where permitted by NEC and local jurisdiction ordinances, except on medical facility patient area receptacles.
F. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate steel conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
G. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1-inch concrete cover.
H. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
I. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
J. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 12 inches of c slack at each end of the pull wire.
K. Stub-up Connections: Extend conductors to equipment with rigid steel conduit; flexible metal conduit may be used 6 inches above the floor.
L. Flexible Connections: Use maximum of 72 inches of flexible conduit for recessed and semirecessed lighting fixtures; for equipment subject to vibration, noise transmission, or movement; and for all motors. Use liquid tight flexible conduit in wet or damp locations. Install separate ground conductor across flexible connections.
M. Install a separate green ground conductor in all raceways.

WIRING DEVICES
I. SECTION REQUIREMENTS
A. Submit Product Data.
II. DEVICES
A. General Purpose Wiring Devices: Comply with NEMA WD1.
B. Color: White.
C. Receptacles: UL 498, general-use grade except as indicated otherwise.
D. Ground-Fault Circuit Interrupter Receptacles: UL 943, feed-through type, with integral NEMA 5-20R duplex receptacle; for installation in a 2-3/4-inch- deep outlet box without an adapter.
E. Snap Switches: Quiet-type ac switches, 120/277 V, 20 A, complying with UL 20.
F. Wall Plates, Finished Areas: Smooth plastic, fastened with metal screws having heads matching plate color.
G. Wall Plates, Unfinished Areas: Galvanized steel with metal screws.
H. In cases where receptacles intended to supply power to water coolers cannot be concealed due to water cooler design, Ground-Fault Circuit Interrupter Receptacles shall be used. Ground-Fault Circuit Interruption to be provided upstream of concealed receptacles.
III. INSTALLATION
A. Install devices and assemblies plumb and secure.
B. Mount devices flush, with long dimension vertical, and grounding terminal of receptacles on top. Group adjacent switches under single, multigang wall plates.
C. Protect devices and assemblies during painting.
D. Install wall plates when painting is complete.

ENCLOSED SWITCHES AND CIRCUIT BREAKERS
I. SWITCHES
A. Enclosed, Nonfusible Switch: NEMA KS 1, Type HD, with lockable handle.
B. Enclosed, Fusible Switch, 800 A and Smaller: NEMA KS 1, Type HD, clips to accommodate specified fuses, enclosure consistent with environment where located, handle lockable with 2 padlocks, and interlocked with cover in closed position.

PANELBOARDS
I. SECTION REQUIREMENTS
A. Submit Product Data.
II. PANELBOARDS AND LOAD CENTERS
A. Flush-mounted, NEMA PB 1, Type 1.
1. Front: Secured to box with concealed trim clamps.
2. Bus: Hard drawn copper of 98 percent conductivity.
B. Molded-Case Circuit Breaker: NEMA AB 1; no tandem circuit breakers; single handle for multipole circuit breakers.
III. INSTALLATION
A. Install panelboards and accessory items according to NEMA PB 1.1. Indicate installed circuit loads on a typed circuit directory, after balancing panelboard loads, showing as-built conditions.
B. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties.

LIGHTING
I. SECTION REQUIREMENTS
A. Submit Product Data for each luminaire, including lamps.
B. Coordinate ceiling-mounted luminaires with ceiling construction.
II. LUMINAIRES
A. As shown on contract drawings.
III. INSTALLATION
A. Set units plumb, square, and level with ceiling and walls, and secure.
B. Disconnecting Means. In indoor locations, other than dwellings and associated accessory structures, luminaires that contain ballast(s) that can be serviced in place shall have a disconnecting means either internal or external to each luminaire, to disconnect simultaneously from source of supply all conductors of ballast, including grounded conductor if any. Line side terminals of the disconnecting means shall be guarded. The disconnecting means shall be located so as to be accessible to qualified persons before servicing or maintaining the ballast.
C. Support for Recessed and Semirecessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not set more than 6 inches from fixture corners.
D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.

SEALS

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ELECTRICAL SCHEDULES, DETAILS, SPECS

SHEET NAME

PROJECT NUMBER	20-032
DRAWN BY	JZK
CHECKED BY	JCM
DATE	12/15/2022
SCALE	As indicated

E-301

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