NEW FACILITY FOR:

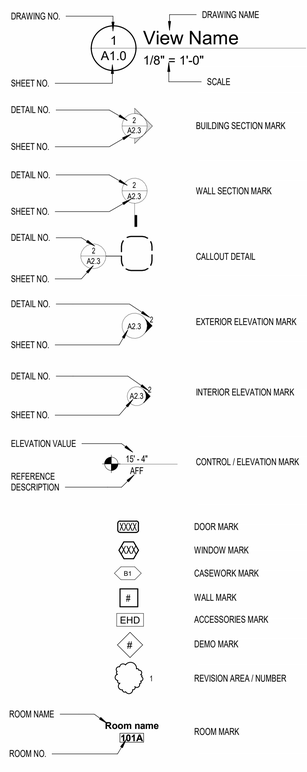
PAMLICO COUNTY:
EOC / 911 DISPATCH

103 N. THIRD STREET
BAYBORO, NC 28515

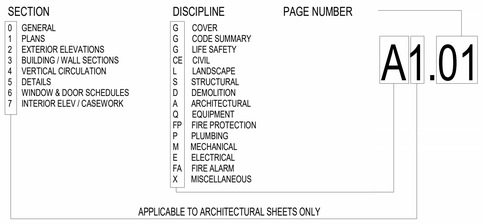
ABBREVIATIONS

@	AT
ACC	ACCENT COLOR
ACOUS	ACOUSTIC
ACT	ACOUSTICAL CEILING TILE
ACW	ACOUSTICAL WALL PANELS
AD	AREA DRAIN
ADJ	ADJUSTABLE
AE	APPROVED EQUAL
AFF	ABOVE FINISH FLOOR
AFL	ATHLETIC FLOORING
AHU	AIR HANDLING UNIT
ALUM	ALUMINUM
ANOD	ANODIZED
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ATTEN	ATTENUATION
AWP	ACRYLIC WALL PANELS
BBT	BIOBASED TILE
BF	BLOCK FILL
BFC	BROOMED FINISHED CONCRETE
BL	BUNDS
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BPG	BULLET PROOF GLASS
CB	CATCH BASIN
CEM	CEMENTIOUS SIDING
CF	CORK FLOORING
CFT	CERAMIC FLOOR TILE
CG	CURVED CEILING GRID
CI	CAST IRON
C#	CURB INLET
CJ	CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONTR	CONTRACTOR
CORR	CORRUGATED
CPT	CARPET
CPTT	CARPET TILE
CRC	COLD ROLLED CHANNEL
CRF	CORK RUBBER FLOORING
CS	COUNTERSUNK
CSCI	CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED
CTB	CERAMIC TILE BASE
CW	CURTAINWALL
CWT	CERAMIC WALL TILE
DFP	DRY FOG PAINT
DIA	DIAMETER
DISP	DISPENSER
DN	DOWN
DP	DEEP
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
EDG	EDGE BANDING
EES	EMERGENCY EYE WASH AND SHOWER
EFC	EPOXY FLOOR COATING
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EIP	EXISTING IRON PIPE
EJ	EXPANSION JOINT
ELEV	ELEVATION
EN	ENAMEL
EPT	HIGH PERFORMANCE EPOXY PAINT
EQ	EQUAL
ES	EXPOSED STRUCTURE
EST	EXISTING
EXP	EXPOSED CEILING
EXT	EXTERIOR
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
FC	FIRECODE
FD	FLOOR DRAIN
FE	FIRE EXSTINGUISHER (SURFACE MOUNTED)
FEC	FIRE EXSTINGUISHER (SEMI-RECESSED)
FF	FINISH FLOOR
FH	FIRE HYDRANT
FLU	FLOURESCENT
FOF	FACE OF FRAME
FOM	FACE OF MASONRY
FT	FLOOR TILE
FTG	FOOTING
FV	FLOOD VENT
GA	GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GCT	GRANITE COUNTERTOP
GEN	GENERATOR
GFT	GRANITE FLOOR TILE
GL	GLASS
GMT	GLASS MOSAIC TILE
GT	GROUT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM BOARD
HB	HOSE BIB
HC	HOLLOW CORE
HDC	HANDICAP
HDWD	HARDWOOD
HM	HOLLOW METAL
HORZ	HORIZONTAL
HR	HOUR
ID	INSIDE DIAMETER
IMP	INSULATED METAL PANEL
INSTAL	INSTALLATION
INSUL	INSULATION
INT	INTERIOR
INV	INVERT
JB	JOIST BEARING
JB#	JUNCTION BOX
JT	JOINT
L	LONG
LFT	LINOLEUM FLOOR TILE
LP	LIGHT POLE
LST	LINOLEUM SHEET FLOORING
LVS	LEAVES (DOOR)
LVT	LUXURY VINYL TILE
MATL	MATERIAL
MAX	MAXIMUM
MB	MASONRY - BRICK
MBL	MARBLE
MC	METAL CANOPY
MCT	METAL CEILING TILE
MECH	MECHANICAL
MFR	MANUFACTURER
MFT	MARBLE FLOOR TILE
MIN	MINIMUM
MO	MASONRY OPENING
MTB	MARBLE TILE BASE
MTD	MOUNTED
MTL	METAL
MWM	METAL WALK-OFF MAT
MWT	MARBLE WALL TILE
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NORMAL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPP	OPPOSITE
OSC	OVERFLOW SCUPPER
OZ	OUNCE
P	PAINT
PC	POLISHED CONCRETE
PERF	PERFORATED
PFT	PORCELAIN FLOOR TILE
PIV	POST INDICATOR VALVE
PL	PLATE
P-LAM	PLASTIC LAMINATE
P-LAM WD	PLASTIC LAMINATE WOOD DOORS
PLYWD	PLYWOOD
PNT	PAINT
POLYETH	POLYETHYLENE
PP	POWER POLE
PR	PAIR
PTB	PORCELAIN TILE BASE
PTD	PAINTED
PTP	PLASTIC TOILET PARTITIONS
PWT	PORCELAIN WALL TILE
PVC	POLYVINYL CHLORIDE
QS	QUARTZ SURFACE
QT	QUARRY TILE
QZT	QUARTZ TILE
R	RADIUS
R&S	ROD AND SHELF
RB	RESILIENT BASE
RBT	RUBBER TILE
RCP	REINFORCED CONCRETE
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER
RECEPT	RECEPTACLE
RECYF	RECYCLED FLOORING
REQD	REQUIRED
RES	RESILIENT
RM	RUBBER MAT
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RSF	RESINOUS FLOORING
RTF	RESILENT TILE FLOORING
SAT	SPRAYED ACOUSTICAL TREATMENT
SC	SEALED CONCRETE
SCH	SCHEDULE
SCW	SOLID CORE WOOD
SDT	STATIC DISSIPATIVE TILE
SF	STOREFRONT
SHEATH	SHEATHING
SIM	SIMILAR
SP	SPACES
SQ	SQUARE
SQFT	SQUARE FEET
SRT	SLIP RESISTANT TILE
SS	STAINLESS STEEL
SSC	STAINED SEALED CONCRETE
SSG	STRUCTURAL SILICON GLAZING
SSM	SOLID SURFACE
ST	STEEL
ST&R	STAIR TREADS AND RISERS
STD	STANDARD
SUSP	SUSPENDED
T&G	TONGUE AND GROOVE
TB	TILE BASE
TC	TERRA COTTA
TCA	TILE COUNCIL OF AMERICA
TELE	TELEPHONE
TEMP	TEMPERED
TEXD	TEXTURED
TFT	TERRAZZO FLOOR TILE
TOC	TOP OF CURB
TOS	TOP OF STEEL
TP	TELEPHONE POLE
TS	TRANSITION STRIP
TV	TELEVISION
TVB	TELEVISION MOUNTING BRACKET
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
U/L	UTILITY/LIGHTS
UNO	UNLESS NOTED OTHERWISE
VACT	VINYL ACOUSTICAL TILE
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
W/	WITH
WC	WATER CLOSET
WD	WOOD
WF	WOOD FLOORING
WT	WALL TILE
WT*	WALL TILE - SEE ELEVATION
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH

SYMBOL LEGEND



SHEET NAMING LEGEND



CONSULTANTS

CIVIL ENGINEER:

STOCKS ENGINEERING

CONTACT INFORMATION:

ADDRESS:
801 EAST WASHINGTON STREET, PO BOX 1108
NASHVILLE, NC 27856

PHONE: 252-459-8196

STRUCTURAL ENGINEER:

SCALENE DESIGN
FUNCTION + STRUCTURE + FORM

CONTACT INFORMATION:

ADDRESS:
421 N. HARRINGTON STREET, SUITE 440
RALEIGH, NC 27603

PHONE: 919-825-0295

PLUMBING, MECHANICAL, & ELECTRICAL ENGINEER:

ATLANTEC ENGINEERS, PA

CONTACT INFORMATION:

ADDRESS:
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612

PHONE: 919-571-1111

INDEX OF DRAWINGS

ALTERNATES

ALTERNATE NO. G-1 - ADDITIONAL STORAGE BAYS : THE CONTRACTOR SHALL STIPULATE A SUM TO BE ADDED TO THE BASE BID FOR THE INCLUSION OF TWO ADDITIONAL STORAGE BAYS AS DELINEATED IN THE PLANS, COMPLETE WITH RELATED SITE WORK, MECHANICAL, ELECTRICAL, AND PLUMBING.

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 [P] 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A.
REGISTERED ARCHITECTURAL CORPORATION
CERT NO. 50681
NORTH CAROLINA
ROCKY MOUNT NC

BID SET

TIMOTHY D. OAKLEY
REGISTERED ARCHITECT
NORTH CAROLINA
ROCKY MOUNT, N.C.
09.12.24

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

Date: 09.12.24	Project No.: 24017
Drawn By: JS/AR	Sheet No.: G0.1
Checked By: DG	

Sheet Title: COVERSHEET

2018 APPENDIX B BUILDING CODE SUMMARY

Name of Project: PAMLICO COUNTY EOC / DISPATCH
Address: 103 N. THIRD STREET, BAYBORO, NORTH CAROLINA Zip Code 28515
Owner/Authorized Agent: TIM BUCK, COUNTY MANAGER
Phone # 252-745-3133 E-Mail TIM.BUCK@PAMLICOCOUNTY.ORG
Owned By: ■ City/County ☐ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ■ County PAMLICO COUNTY ☐ State

CONTACT: TIMOTHY D. OAKLEY, ARCHITECT

DESIGNER	FIRM	NAME	LICENSE#	TELEPHONE#	E-MAIL
Architectural	OAKLEY COLLIER ARCHITECTS	TIM OAKLEY	5967	252-937-2500	TOAKLEY@OAKLEYCOLLIER.COM
Civil	STOCKS ENGINEERING	MICHAEL STOCKS	19843	252-459-8196	MSTOCKS@STOCKSENGINEERING.COM
Electrical	ATLANTEC ENGINEERING	MATTHEW BRILEY	48828	919-571-1111	MATTHEW@ATLANTECENGINEERS.COM
Fire Alarm	ATLANTEC ENGINEERING	MATTHEW BRILEY	48828	919-571-1111	MATTHEW@ATLANTECENGINEERS.COM
Plumbing	ATLANTEC ENGINEERING	J. HARRISON HOLT	49754	919-855-2032	HARRISON@ATLANTECENGINEERS.COM
Mechanical	ATLANTEC ENGINEERING	PATRICK MCCABE	51195	919-855-2024	PATRICK@ATLANTECENGINEERS.COM
Sprinkler-Standpipe					
Structural	SCALENE DESIGN	SARAH MUSSER	031551	919-889-5383	SMUSSER@SCALENE-DESIGN.COM
Retaining Walls >5' High					
Other					

("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ■ New Building ☐ Addition ☐ Renovation
☐ 1st Time Interior Completion
☐ Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
☐ Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: Existing ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) N/A **CURRENT OCCUPANCY(S)** (Ch.3): N/A
RENOVATED: (date) N/A **PROPOSED OCCUPANCY(S)** (Ch.3): A-3 / B, S-2

Risk Category (Table 1604.5): Current: ☐ I ☐ II ☐ III ☐ IV
Proposed: ☐ I ☐ II ☐ III ■ IV

BASIC BUILDING DATA

Construction Type: ☐ I-A ☐ I-B ☐ II-A ☐ II-B ☐ III-A ☐ III-B ☐ IV ☐ V-A ■ V-B
Sprinklers: ■ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ■ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ■ No ☐ Yes **Flood Hazard Area:** ■ No ☐ Yes
Special Inspections Required: ☐ No ■ Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
6th Floor			
5th Floor			
4th Floor			
3rd Floor			
2nd Floor			
1st Floor		5,165 (ALT BID: 6,779)	5,165 (ALT BID: 6,779)
Basement			
TOTAL		5,165 (ALT BID: 6,779)	5,165 (ALT BID: 6,779)

ALLOWABLE AREA

Primary Occupancy Classification(s):
Assembly ☐ A-1 ☐ A-2 ■ A-3 ☐ A-4 ☐ A-5
Business ■
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ■ S-2 Low ☐ High-piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A
Special Uses (Chapter 4 - List Code Sections): N/A
Special Provisions: (Chapter 5 - List Code Sections): N/A
Mixed Occupancy: ☐ No ■ Yes Separation: 2 Hr. Exception: N/A

■ Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
NO SEPARATION AT B TO A-3

■ Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
2 HR SEPARATION AT B TO S-2

$$\frac{\text{Actual Area of Occupancy A-3 / B}}{\text{Allowable Area of Occupancy A-3 / B}} + \frac{\text{Actual Area of Occupancy S-2}}{\text{Allowable Area of Occupancy S-2}} \leq 1$$

BASE BID: 4,267 / 10,500 + 898 / 23,625 = 0.44 ≤1.00

ALT BID G-1: 4,267 / 10,500 + 2,512 / 23,625 = 0.51 ≤1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2[4] AREA	(C) AREA FOR FRONTAGE INCREASE[1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED[2,3]
1	A-3 / B	4,267	6,000	4,500	10,500
1	S-2 BASE BID	898	13,500	10,125	23,625
1	(S-2 ALT BID)	(2,512)	(13,500)	(10,125)	(23,625)

1. Frontage area increases from Section 506.3 are computed thus: ALT BID SHOWN IN (PARENTHESIS)
   a. Perimeter which fronts a public way or open space having 20 feet minimum width = 305' (378') (F)
   b. Total Building Perimeter = 305' (378') (P).
   c. Ratio (F/P) = 1 (F/P)
   d. W = Minimum width of public way = 30' (W)
   e. Percent of frontage increase *If = 100[F/P-0.25] x W/30* = 75 (%).
2. Unlimited area applicable under conditions of Section 507.
3. Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4. The maximum area of open parking garages must comply with Table 406.5.4 .
5. Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE[1]
Building Height in Feet (Table 504.3)[2]	40	>20'	N/A
Building Height in Stories (Table 504.4)[3]	1	1	N/A

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.
2. The maximum height of air traffic towers must comply with Table 412.3.1.
3. The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (W/ * REDUCTION)	DETAIL# AND SHEET#	DESIGN# FOR RATED ASSEMBLY	SHEET# FOR RATED PENETRATION	SHEET# FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	>30	0	0	N/A	N/A	N/A	N/A
Bearing Walls							
Exterior							
North	>30	0	0	N/A	N/A	N/A	N/A
East	>30	0	0	N/A	N/A	N/A	N/A
West	>30	0	0	N/A	N/A	N/A	N/A
South	>30	0	0	N/A	N/A	N/A	N/A
Interior	N/A	0	0	N/A	N/A	N/A	N/A
Nonbearing Walls and Partitions							
Exterior walls							
North	N/A	0	N/A	N/A	N/A	N/A	N/A
East	N/A	0	N/A	N/A	N/A	N/A	N/A
West	N/A	0	N/A	N/A	N/A	N/A	N/A
South	N/A	0	N/A	N/A	N/A	N/A	N/A
Interior walls and partitions	N/A	0	0	N/A	N/A	N/A	N/A
Floor Construction Including supporting beams and joists		0	0	N/A	N/A	N/A	N/A
Floor Ceiling Assembly		0	0	N/A	N/A	N/A	N/A
Columns Supporting Floors		N/A	N/A	N/A	N/A	N/A	N/A
Roof Construction, including supporting beams and joists		0	0	N/A	N/A	N/A	N/A
Roof Ceiling Assembly		0	0	N/A	N/A	N/A	N/A
Columns Supporting Roof		0	0	N/A	N/A	N/A	N/A
Shaft Enclosures - Exit		N/A	N/A	N/A	N/A	N/A	N/A
Shaft Enclosures - Other		N/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation		1 HR.	1 HR.	A3.4	UL # U419	-	-
Occupancy/Fire Barrier Separation		2 HR.	2 HR.	N/A	PRESCRIPTIVE	N/A	N/A
Party/Fire Wall Separation		N/A	N/A	N/A	N/A	N/A	N/A
Smoke Barrier Separation		N/A	N/A	N/A	N/A	N/A	N/A
Smoke Partition		N/A	N/A	N/A	N/A	N/A	N/A
Tenant/Dwelling Unit/Sleeping Unit Separation		N/A	N/A	N/A	N/A	N/A	N/A
Incidental Use Separation		N/A	N/A	N/A	N/A	N/A	N/A

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
30 OR GREATER	UP, NS	NO LIMIT	N/A
-	-	-	-
-	-	-	-

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ■ Yes
Exit Signs: ☐ No ■ Yes
Fire Alarm: ☐ No ■ Yes
Smoke Detection Systems: ☐ No ☐ Yes ■ Partial
Carbon Monoxide Detection: ■ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LS1

■ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on the site plan)
☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
■ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
■ Occupant loads for each area
■ Exit access travel distances (1017)
■ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
☐ Dead end lengths (1020.4)
■ Clear exit widths for each exit door
■ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)
■ Actual occupant load for each exit door
☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation
■ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
☐ Location of doors with electromagnetic egress locks (1010.1.9.9)
☐ Location of doors equipped with hold-open devices
☐ Location of emergency escape windows (1030)
☐ The square footage of each fire area (202)
☐ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)
☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE SPACES PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WITH 132" ACCESS AISLE	VAN SPACES WITH 8' ACCESS AISLE	
	10	SEE CIVIL	0	0	1	1
TOTAL	10	SEE CIVIL	0	0	1	1

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS /TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
SPACE	EXISTG										
	NEW	1	1	1	0	1	1	1	2	1	1
	REQ'D	1	1	N/A	N/A	1	1	N/A	0	1	1

SPECIAL APPROVALS

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

ENERGY SUMMARY

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

Existing building envelope complies with code: ☐ No ☐ Yes (The remainder of this section is not applicable)
Exempt Building: ☐ No ☐ Yes (Provide code or statutory reference)
Climate Zone: ■ 3A ☐ 4A ☐ 5A
Method of Compliance: Energy Code ☐ Performance ■ Prescriptive
ASHRAE 90.1 ☐ Performance ☐ Prescriptive
(If "Other" specify here)

THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly) TRUSSED ROOF, SHEATHING, POLY-ISO, COVER BOARD, & TPO
Description of assembly: ADHERED MEMBRANE
U-Value of total assembly: U- 0.036
R-Value of insulation: R-25
Skylights in each assembly: N/A
U-Value of skylight: N/A
Total square footage of skylights in each assembly: N/A
Exterior Walls (each assembly)
Description of assembly: 8" OR 12" CMU, VAPOR BARRIER, 1.5" POLYISO CI, AIR GAP, BRICK
U-Value of total assembly: U-0.073
R-Value of insulation: R-9.5
Openings (windows or doors with glazing)
U-Value of assembly: STOREFRONT 0.45 / ENTRANCE DOOR 0.77
Solar heat gain coefficient: 0.33 MAX
Projection factor: 0
Door R-Values: 2.22
Walls below grade (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of total assembly: N/A
Floors over unconditioned space (each assembly)
Description of assembly: N/A
U-Value of total assembly: N/A
R-Value of total assembly: N/A
Floors slab on grade
Description of assembly: 6" SLAB ON GRADE
U-Value of total assembly: U-0.505
R-Value of insulation: NO REQUIREMENT
Horizontal/vertical requirement: NO REQUIREMENT
Slab heated: N/A

STRUCTURAL DESIGN

DESIGN LOADS:
Importance Factors: Snow (I_S) 1.2 Seismic (I_P) 1.5
Live Loads: Roof 20 psf Mezzanine N/A psf Floor N/A psf
Ground Snow Load: 10 psf
Wind Load: Ultimate Wind Speed 148 mph (ASCE-7) Exposure Category C

SEISMIC DESIGN CATEGORY: ☐ A ☐ B ■ C ☐ D
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) ☐ I ☐ II ☐ III ■ IV
Spectral Response Acceleration S_S 0.09 %g S_1 0.046 %g
Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☐ D ■ E ☐ F
Data Source: ■ Field Test ☐ Presumptive ☐ Historical Data
Basic structural system ■ Bearing Wall ☐ Dual w/Special Moment Frame ☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel ☐ Moment Frame ☐ Inverted Pendulum
Analysis Procedure: ☐ Simplified ■ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components anchored? ■ Yes ☐ No
LATERAL DESIGN CONTROL: ☐ Earthquake ■ Wind
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) SEE REPORT psf
Presumptive Bearing capacity N/A psf
Pile size, type, and capacity 9" DIAMETER TIMBER PILES; SEE STRUCT.

MECHANICAL DESIGN *SEE SHEET M0.0

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
Thermal Zone: 3A
Exterior design conditions
winter dry bulb: 26°F
summer dry bulb: 88°F
relative humidity: 46%
Interior design conditions
winter dry bulb: 70°F
summer dry bulb: 74°F
relative humidity: 50%
Building heating load: BLOCK LOAD = 67.2 MBH
Building cooling load: BLOCK LOAD = 145.4 MBH (12.1 TONS)
Mechanical Spacing Conditioning System
Unitary
description of unit: SEE SCHEDULES SHEET M0.0
heating efficiency: SEE SCHEDULES SHEET M0.0
cooling efficiency: SEE SCHEDULES SHEET M0.0
size category of unit: SEE SCHEDULES SHEET M0.0
Boiler
Size category, if oversized, state reason: N/A
Chiller
Size category, if oversized, state reason: N/A
List equipment efficiencies: SEE SCHEDULES SHEET M0.0

ELECTRICAL DESIGN *SEE SHEET E0.1

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code: ■ Prescriptive ☐ Performance
ASHRAE 90.1: ☐ Prescriptive ☐ Performance
Lighting schedule (each fixture type)
lamp type required in fixture SEE FIXTURE SCHEDULE
number of lamps in fixture SEE FIXTURE SCHEDULE
ballast type used in the fixture SEE FIXTURE SCHEDULE
number of ballasts in fixture SEE FIXTURE SCHEDULE
total wattage per fixture SEE FIXTURE SCHEDULE
total interior wattage specified vs. allowed (whole building or space by space) 3,083 vs. 5,003
total exterior wattage specified vs. allowed 313 vs. 750
Additional Efficiency Package Options
(When using the 2018 NCECC; not required for ASHRAE 90.1)
☐ C406.2 More Efficient HVAC Equipment Performance
■ C406.3 Reduced Lighting Power Density
☐ C406.4 Enhanced Digital Lighting Controls
☐ C406.5 On-Site Renewable Energy
☐ C406.6 Dedicated Outdoor Air System
☐ C406.7 Reduced Energy Use in Service Water Heating

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A. CERT. NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC
BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, NC 09.12.24
BID SET

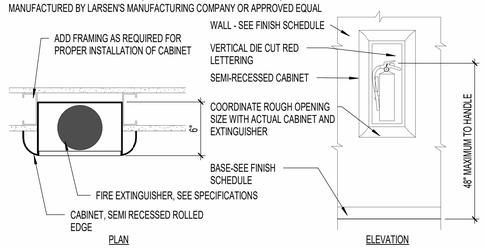
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: G0.2
Checked By: DG	

Sheet Title: BUILDING CODE SUMMARY

NOTE:
BASIS OF DESIGN ARCHITECTURAL SERIES MODEL AL2409-R4 SEMI RECESSED FULL PANEL DOOR WITH CLEAR ACRYLIC GLAZING. 31/2" ROLLED EDGE TRIM, VERTICAL DIE CUT RED LETTERING, WHITE BAKED ENAMEL INTERIOR BOX AS MANUFACTURED BY LARSEN'S MANUFACTURING COMPANY OR APPROVED EQUAL



2 / G1.1 SEMI RECESSED FEC

1 1/2" = 1'-0"

LIFE SAFETY LEGEND

OCCUPANCY
X | XXX — SQUARE FEET OF ROOM
XX | XX — OCCUPANT LOAD
OCCUPANT LOAD FACTOR

EGRESS WIDTH
XX" DOOR / 0.2" — EGRESS CAPACITY FACTOR
XXX OCC. ALLOWED — EGRESS CAPACITY ALLOWED
XXX ACTUAL — ANTICIPATED EGRESS LOAD

OCCUPANCY:
- ASSEMBLY: A-3
- BUSINESS: B
- LOW-HAZARD STORAGE: S-2

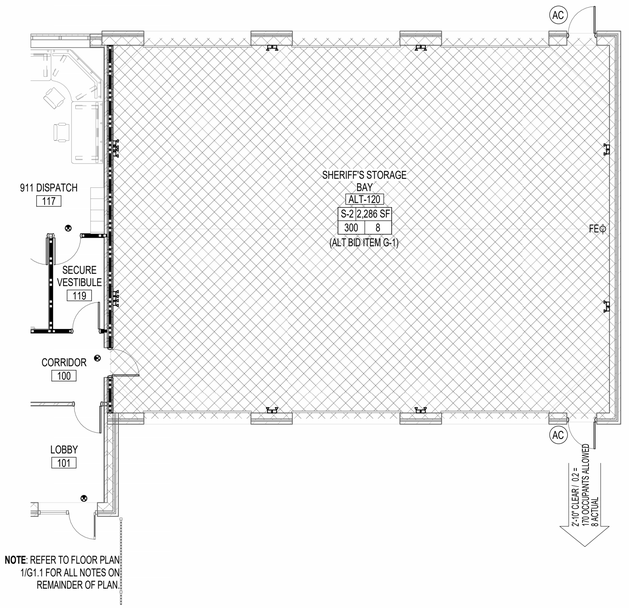
- EXIT SEPARATION DISTANCE - REQUIRED
- EXIT SEPARATION DISTANCE - PROVIDED
- MAXIMUM TRAVEL DISTANCE
- COMMON PATH OF TRAVEL
- 1 HOUR RATED WALL
- 2 HOUR RATED WALL
- FEC — FIRE EXTINGUISHER IN CABINET SEMI-RECESSED
- FE — FIRE EXTINGUISHER - BRACKET MOUNTED
- (P) — PANIC HARDWARE
- (AC) — ACCESS CONTROL
- EXIT SIGN (SEE NOTE 1)
- EXIT SIGN/EMERGENCY LIGHT (SEE NOTE 1)
- EMERGENCY LIGHT (SEE NOTE 1)
- LIGHT FIXTURE W/ BATTERY BACKUP TO BE USED AS EMERGENCY LIGHT (SEE NOTE 1)

NOTES:
1. SEE ELECTRICAL PLANS FOR COMPLETE DESCRIPTION OF DEVICES AND ADDITIONAL DETAILS INCLUDING MOUNTING AND PLACEMENT.
2. PER NCSBC 1705.17, THERE SHALL BE SPECIAL INSPECTIONS FOR FIRE RESISTANT THROUGH PENETRATIONS AND JOINTS.
3. FIRE WALLS AND FIRE BARRIERS SHALL BE LABELED IN ACCESSIBLE CONCEALED SPACES, SUCH AS ABOVE LAY-IN CEILINGS, IN ACCORDANCE WITH NCSBC 703.7. MARKINGS SHALL BE LOCATED WITHIN 15' OF END WALLS AND AT INTERVALS OF 30' MEASURED HORIZONTALLY. LETTERING SHALL BE MINIMUM OF 2" HIGH WITH A MINIMUM 1/4" STROKE, IN A CONTRASTING COLOR.

OVERALL OCCUPANT LOAD

FUNCTION OF SPACE (PER TABLE 1004.1.2)	OCC. LOAD FACTOR	AREA	OCCUPANTS
ACCESSORY STORAGE, MECH. EQUIP. ROOM	300	417 SF	1.39
ASSEMBLY - UNCONCENTRATED	15	828 SF	55.20
BUSINESS	100	2,393 SF	23.93
STORAGE	300	777 SF	2.59
84 TOTAL OCCUPANTS			83.11

NOTE: REFER TO FLOOR PLAN 1/G1.1 FOR ALL NOTES ON REMAINDER OF PLAN.

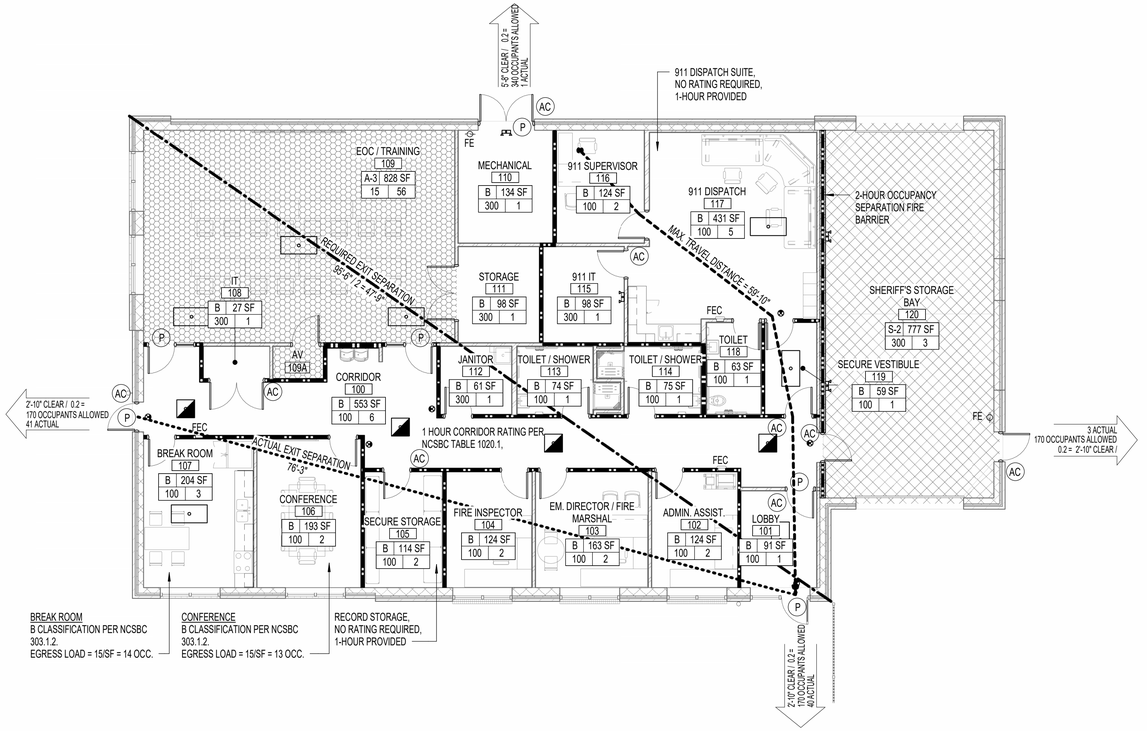


NOTE: REFER TO FLOOR PLAN 1/G1.1 FOR ALL NOTES ON REMAINDER OF PLAN.

1A / G1.1 ALT BID G-1 - LIFE SAFETY PLAN

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'



BREAK ROOM
B CLASSIFICATION PER NCSBC 303.1.2.
EGRESS LOAD = 15/SF = 14 OCC.

CONFERENCE
B CLASSIFICATION PER NCSBC 303.1.2.
EGRESS LOAD = 15/SF = 13 OCC.

RECORD STORAGE, NO RATING REQUIRED, 1-HOUR PROVIDED

1 / G1.1 BASE BID - LIFE SAFETY PLAN

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'

OAKLEY COLLIER ARCHITECTS
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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC
BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, NC 09.12.24
BID SET

GENERAL NOTE:
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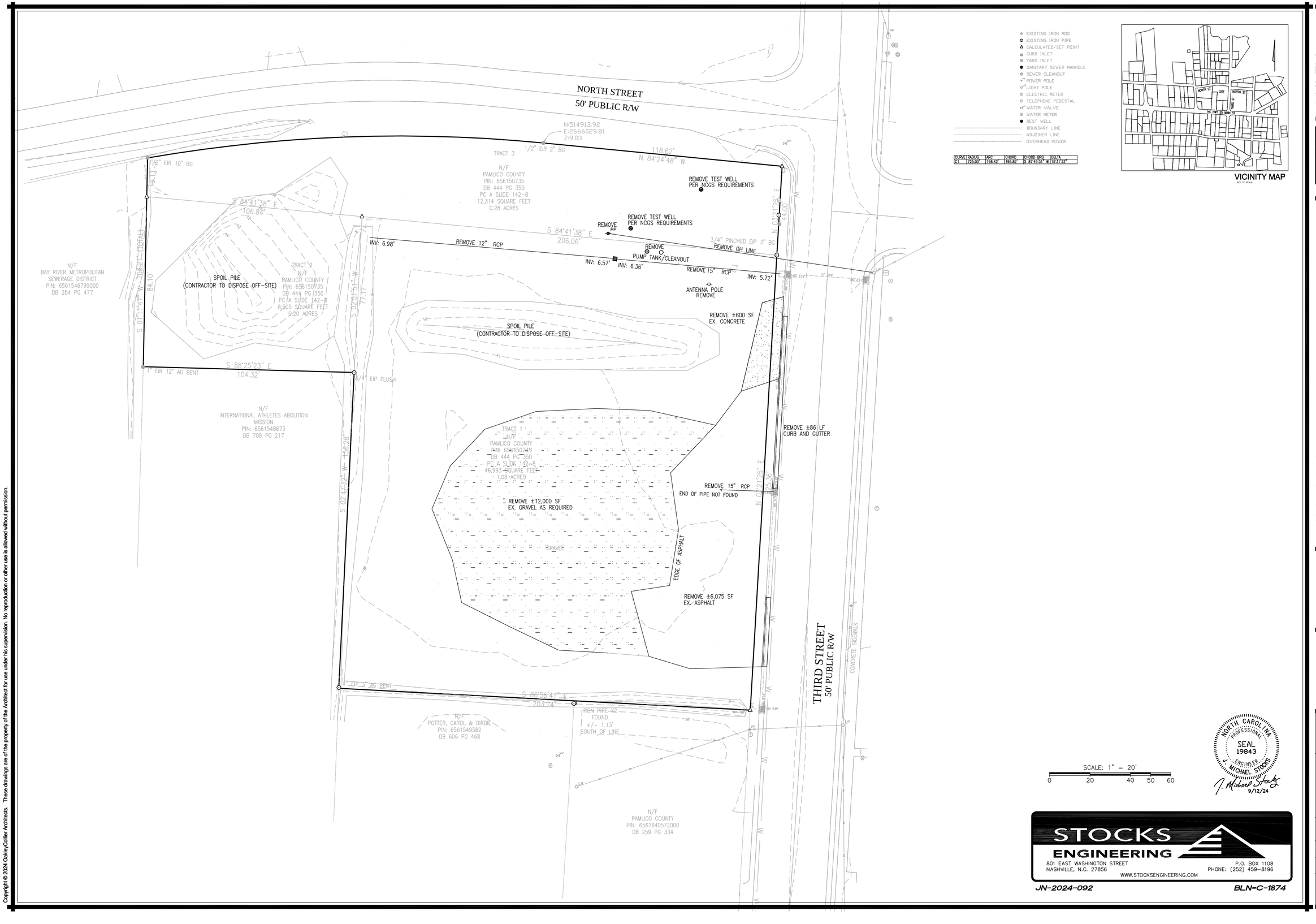
Revisions #	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: G1.1
Checked By: DG	

Sheet Title: LIFE SAFETY



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305 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

BID SET

BID SET

GENERAL NOTE:
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Revisions

#	Description	Date

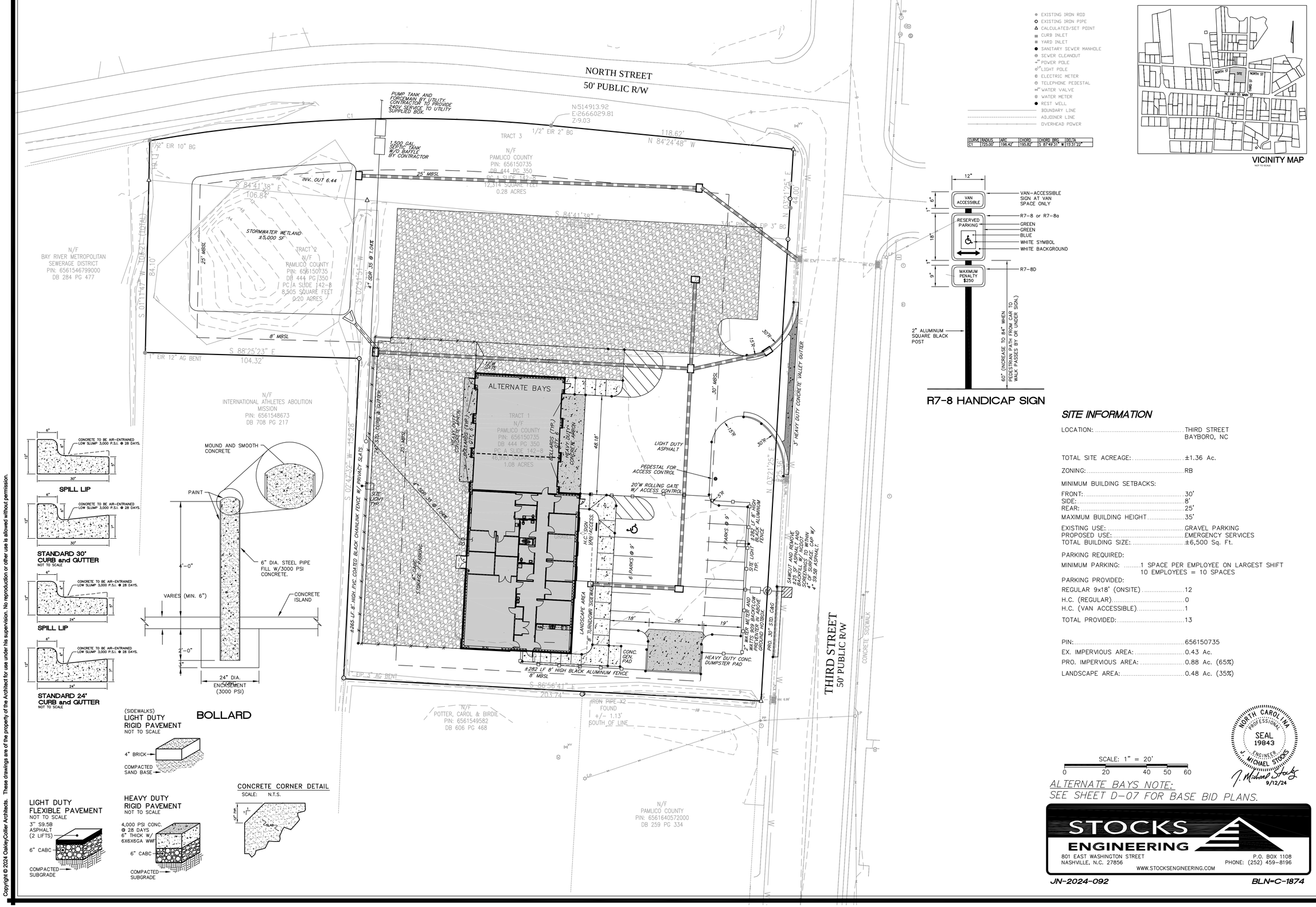
NORTH CAROLINA PROFESSIONAL SEAL 19843 ENGINEER J. MICHAEL STOCKS
9/12/24

STOCKS ENGINEERING
801 EAST WASHINGTON STREET
NASHVILLE, N.C. 27856
P.O. BOX 1108
PHONE: (252) 459-8196
WWW.STOCKSENGINEERING.COM

JN-2024-092 BLN=C-1874

Date	Project No.
09.12.24	24017
Drawn By: Author	Sheet No.: CE0.1
Checked By: Checker	

Sheet Title
DEMOLITION PLAN



SITE INFORMATION

LOCATION: THIRD STREET, BAYBORO, NC

TOTAL SITE ACREAGE: ±1.36 Ac.

ZONING: RB

MINIMUM BUILDING SETBACKS:

FRONT: 30'
SIDE: 8'
REAR: 25'

MAXIMUM BUILDING HEIGHT: 35'

EXISTING USE: GRAVEL PARKING
PROPOSED USE: EMERGENCY SERVICES
TOTAL BUILDING SIZE: ±6,500 Sq. Ft.

PARKING REQUIRED:

MINIMUM PARKING: 1 SPACE PER EMPLOYEE ON LARGEST SHIFT
10 EMPLOYEES = 10 SPACES

PARKING PROVIDED:

REGULAR 9x18' (ONSITE): 12
H.C. (REGULAR): 0
H.C. (VAN ACCESSIBLE): 1
TOTAL PROVIDED: 13

PIN: 656150735
EX. IMPERVIOUS AREA: 0.43 Ac.
PRO. IMPERVIOUS AREA: 0.88 Ac. (65%)
LANDSCAPE AREA: 0.48 Ac. (35%)

SCALE: 1" = 20'
0 20 40 50 60

ALTERNATE BAYS NOTE:
SEE SHEET D-07 FOR BASE BID PLANS.

NORTH CAROLINA PROFESSIONAL SEAL 19843 ENGINEER J. MICHAEL STOCKS
J. Michael Stocks 9/12/24

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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

BID SET

BID SET

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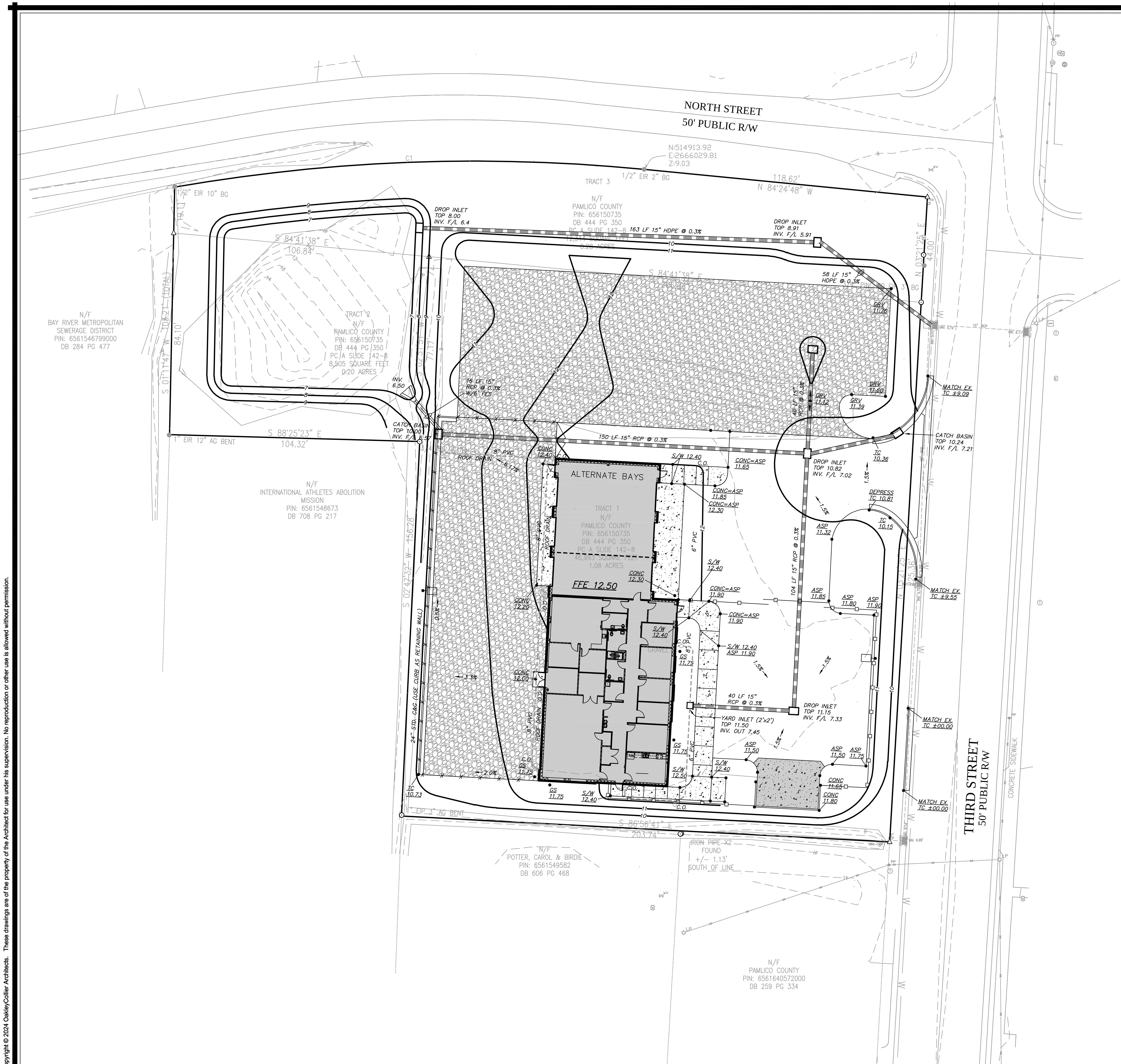
Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: Author	Sheet No. CE0.2
Checked By: Checker	

Sheet Title: SITE PLAN



- EXISTING IRON ROD
- EXISTING IRON PIPE
- CALCULATED/SET POINT
- CURB INLET
- YARD INLET
- SANITARY SEWER MANHOLE
- SEWER CLEANOUT
- POWER POLE
- LIGHT POLE
- ELECTRIC METER
- TELEPHONE PEDESTAL
- WATER VALVE
- WATER METER
- REST WELL
- BOUNDARY LINE
- ADJOINER LINE
- OVERHEAD POWER

CURVE	RADIUS	ARC	CHORD	CHORD BRG	DELTA
C1	725.00'	196.42'	195.82'	S 87°49'31" W	15°31'22"

VICINITY MAP
NOT TO SCALE

SCALE: 1" = 20'
0 20 40 50 60

ALTERNATE BAYS NOTE:
SEE SHEET D-07 FOR BASE BID PLANS.

NORTH CAROLINA PROFESSIONAL SEAL 19843 ENGINEER J. MICHAEL STOCKS
J. Michael Stocks 9/12/24

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OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

BID SET

BID SET

GENERAL NOTE:
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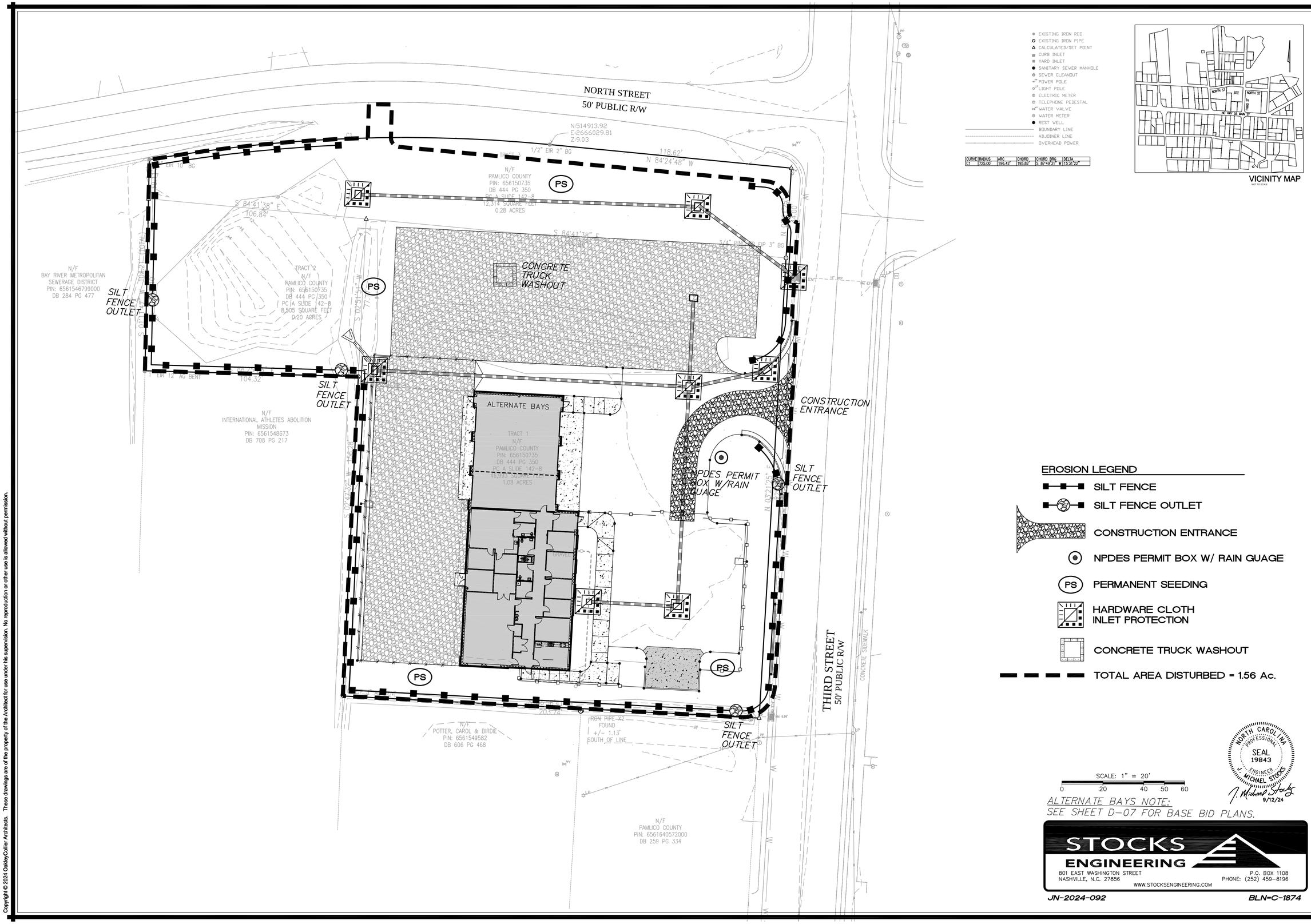
Revisions #	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: Author	Sheet No.
Checked By: Checker	CE0.3

Sheet Title
GRADING
and DRAINAGE



- EXISTING IRON ROD
- EXISTING IRON PIPE
- CALCULATED/SET POINT
- CURB INLET
- YARD INLET
- SANITARY SEWER MANHOLE
- SEWER CLEANOUT
- POWER POLE
- LIGHT POLE
- ELECTRIC METER
- TELEPHONE PEDESTAL
- WATER VALVE
- WATER METER
- REST WELL
- BOUNDARY LINE
- ADJOINER LINE
- OVERHEAD POWER

CURVE	RADIUS	ARC	CHORD	CHORD BRG	DELTA
C1	725.00'	196.42'	195.82'	S 87°49'31" W	15°31'22"

VICINITY MAP
NOT TO SCALE

EROSION LEGEND

- SILT FENCE
- SILT FENCE OUTLET
- CONSTRUCTION ENTRANCE
- NPDES PERMIT BOX W/ RAIN GUAGE
- PS — PERMANENT SEEDING
- HARDWARE CLOTH INLET PROTECTION
- CONCRETE TRUCK WASHOUT
- TOTAL AREA DISTURBED = 1.56 Ac.

SCALE: 1" = 20'
0 20 40 50 60

ALTERNATE BAYS NOTE:
SEE SHEET D-07 FOR BASE BID PLANS.

NORTH CAROLINA PROFESSIONAL SEAL 19843 ENGINEER J. MICHAEL STOCKS
J. Michael Stocks 9/12/24

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JN-2024-092 BLN-C-1874

OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
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NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

BID SET

BID SET

GENERAL NOTE:
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Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: Author	Sheet No.: CE0.4
Checked By: Checker	

Sheet Title: EROSION CONTROL

EROSION AND SEDIMENTATION CONTROL NARRATIVE

PROJECT DESCRIPTION
The purpose of this project is for the construction of a new Emergency Operations Center. The project is owned by Pamlico County. The site is currently a gravel parking lot.

Approximately 1.56 acres will be disturbed during construction.

The project is scheduled to begin construction in Fall 2024 with project completion and final stabilization by Fall 2025. The erosion and sediment control program for this project will include the installation of a suitable construction entrance, silt fence, silt fence outlets, inlet protection, skimmer basins, temporary diversions, skimmer basin and seeding of the site.

ADJACENT PROPERTY
The adjacent property is vacant/municpal.

SOILS
The soil at this site is a sandy loam.

EROSION AND SEDIMENT CONTROL MEASURES
All vegetative and structural erosion and sediment control practices shall be constructed and maintained by the contractor according to these plans and specifications and the minimum standards of the Dept. of Environmental Management, Land Quality Section and City of Clayton. The contractor shall also follow any additional requirements as outlined by the Project Engineer.

Structural Practices
1. Vehicle wheels shall be clean when leaving the site to prevent the tracking of mud on paved roads.
2. Construction Road Stabilization: Construction traffic shall be limited to stabilized areas. At a minimum, a temporary gravel construction entrance shall be provided as shown on this drawing.
3. Silt Fence: Silt fences shall be provided where shown and as needed on the site plan. These barriers shall be used to contain sediment.
4. Rip Rap/Gravel Filter Sediment Basins: Construct basin to the shape and dimensions shown in the details. The basin is to be placed below the existing ditch flow line by 2' with the berm built above as dimensioned.

Vegetative Practices (Ground Stabilization)

Site Area Description:	Stabilization Time Frame:	Stabilization Time Frame Exceptions:
Perimeter dikes, swales, ditches & slopes.	7 Days	None
High Quality Water (HQW) Zones.	7 Days	None
Slope steeper than 3:1	7 Days	None
Slopes 3:1 or flatter.	10 Days	7 Days for slopes greater than 50 feet in length.

Seeding Schedule

Ongoing Activity. Land left exposed shall be planted or otherwise provided with temporary ground cover, devices, or structures sufficient to restrain erosion within the applicable time period after completetion of any phase of grading or period of inactivity as follows: seven (7) days for steep slope or inclination. Ten (10) days for a moderate slope, fourteen (14) days for land with no slope or inclination. For purposes of this section, a moderate slope means an inclined area, the inclination oif which is less than or equal to three (3) units of horizontal distance to one (1) unit of vertical distance; and a steep slope means an inclined area, the inclination of which is greater than three (3) units of horizontal distance to one (1) unit of vertical distance. No other criteria apply.

Completed Activity. For any area of land-disturbing activity where grading activities have been completed, temporary or permanent ground cover sufficient to restrain erosion shall be provided as soon as practicable, but in no case later than seven (7) days after completetion of grading.

Management Strategies
1. Perimeter measures are to be installed prior to grubbing or grading.
2. Tail Ditches shall be stabilized immediately following their construction. As an alternate, rock check dams may be provided at their outlets and/or the terminal downstream end of disturbance until ground cover is implemented.
3. Stockpile and/or waste areas must be maintained within the limits of the areas protected by the proposed measures and otherwise temporarily seeded if to be left stockpiled over 15 days.
4. Construction shall be planned so that grading operations can begin and end as quickly as possible.
5. Silt Fences shall also be installed prior to or as a first step in construction.
6. The Contractor shall be responsible for the installation and maintenance of all erosion and sediment control practices.

Vegetative Ground Cover
Immediately following grading, all areas shall receive either permanent or temporary seeding, as applicable, as follows:

TEMPORARY SEEDING SPECIFICATIONS

BETWEEN MAY 1 AND AUGUST 15, ADD 40 LB/ACRE GERMAN MILLET. PRIOR TO MAY 1 OR AFTER AUGUST 15, ADD 120 LB/ACRE RYE (GRAIN).

FALL IS BEST FOR TALL FESCUE AND LATE WINTER FOR LESPEDEZAS. OVERSEEDING OF KOBE LESPEDEZAS OVER THE FALL SEEDED TALL FESCUE IS VERY EFFECTIVE. USE UNHULLED BERMUDAGRASS SEED IN FALL.

SOIL AMENDMENTS
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST. IF SANDY SOILS APPLY AGRICULTURAL GRADE LIME AT A RATE OF 2 TONS/ACRE. IF CLAY SOILS APPLY AGRICULTURAL GRADE LIME AT 3 TONS/ACRE. IF SOIL TEST IS NOT AVAILABLE APPLY 1,000 LBS/ACRE OF 10-10-10 FERTILIZER.

MULCH
APPLY 4,000 LB/ACRE GRAIN STRAW, OR EQUIVALENT COVER OF ANOTHER SUITABLE MULCHING MATERIAL. ANCHOR MULCH BY DISKING WITH ASPHALT AT A RATE OF 400 GALLONS/ACRE, ROVING OR NETTING. NETTING IS THE PREFERRED ANCHORING METHOD ON STEEP SLOPES.

MAINTENANCE
REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILIZE AND MULCH IMMEDIATELY FOLLOWING EROSION OR OTHER DAMAGE.

PERMANENT SEEDING SPECIFICATIONS

FESCUE – 200 Lbs./Ac.
CENTIPEDE – 20 Lbs./Ac.

SOIL AMENDMENTS
APPLY LIME AND FERTILIZER ACCORDING TO SOIL TEST.

MAINTENANCE
IF GROWTH IS LESS THAN FULLY ADEQUATE, REFERTILIZE THE SECOND YEAR. ACCORDING TO SOIL TESTS OR TOPDRESS WITH 500 LB/ACRE 10-10-10 FERTILIZER. MOW AS NEEDED.
REPLACE, FERTILIZE, AND MULCH DAMAGED AREAS IMMEDIATELY.

Maintenance
1. Reseed and mulch bare spots larger than 9 square feet (limited to 5% maximum of site area.)
2. Maintain all seeded areas until uniform stand is acceptable.
3. If growth is not established by final project inspection, continue specified attention until the stand is acceptable.
4. Correct and repair all undue settling and erosion within 1 year after final inspection.
5. Remove from the site, all erosion control structures after complete stabilization at end of construction period.
6. Remove silt from sediment pits and from behind check dams when silt is within half depth of the pit or spillway. Dispose of in an area where silt cannot re-enter pit / trap.

Calculations
The practice utilized for the proposed site did require formal calculations. Calculations have been provided.

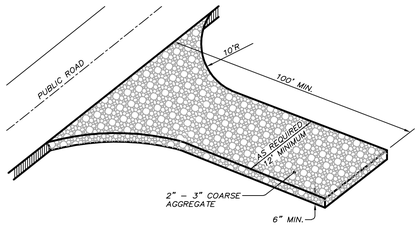
OWNER
Pamlico County
302 Main Street
Bayboro, NC 28515

Maintenance Notes:
1. Follow chart for timelines of when to apply temporary seeding.
2. Maintain all erosion control measures daily and reseed disturbed areas as needed.
3. Inspect all erosion control measures weekly and after each rainfall event. Repair as needed.

GENERAL NOTES:
1. All Stockpile areas shall be a minimum of 100' away from surface waters and inside the perimeter EC Measures.
2. All Concrete Washout areas shall be a minimum of 100' away from surface waters and inside the perimeter EC Measures.
3. If an offsite soil spoil or borrow site is utilized, then the disturbed area for the spoil/borrow site must be included in the land-disturbance plan and permit unless the spoil/borrow site already has a land-disturbance permit.

CONSTRUCTION ENTRANCE

NOT TO SCALE

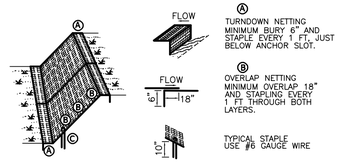


CONSTRUCTION SPECIFICATIONS:
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS BECAUSE THEY IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE:
MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

EXCELSIOR MATTING

NOT TO SCALE



Ⓐ TURNDOWN NETTING MINIMUM BURY 6" AND STAPLE EVERY 1 FT. JUST BELOW ANCHOR SLOT.

Ⓑ OVERLAP NETTING MINIMUM OVERLAP 18" AND STAPLING EVERY 1 FT THROUGH BOTH LAYERS.

TYPICAL STAPLE USE #6 GAUGE WIRE

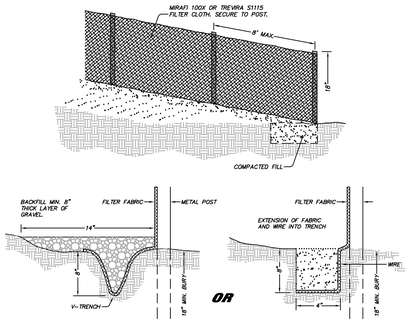
GENERAL NOTES:
1. Apply seed, and tack with rs or crs liquid emulsified asphalt at a rate equal to 10 gal. per 1000 s.f. Cover w/excelsior matting.
2. Staple every 24" along perimeter edges and overlaps. Staple every 36" to 48" randomly to secure netting.
3. Roll out netting in the direction of water flow. Do not stretch.

CONSTRUCTION SEQUENCE

1. *Erosion and Sediment Control (E&SC) permit and a Certificate of Coverage (COC) must be obtained before any land disturbing activities (including timbering and demolition) occur. Retain a copy of the approved erosion control plan and permit onsite in a permit box that is accessible at all times for inspections. Contact DEMLR Washington Regional Office 48 hours prior to commencing the land disturbing activity. The contact number is (252)-946-6481.*
2. *A Pre-construction conference is to be scheduled with DEMLR Washington Regional Office 252-946-6481, at least one week prior to commencing construction.*
3. *Construct the construction entrance as shown on the plans. Maintain the construction entrance daily to ensure that mud and silt will not be tracked onto paved surfaces. If mud is tracked onto any paved surface, it is to be removed immediately.*
4. *Construct all perimeter erosion control measures to contain sediment on-site. Construct the silt fence, silt fence outlets and skimmer sediment basins*
5. *Begin demolition and stripping of topsoil.*
6. *Begin grading work at the site. All cut and fill slopes area to be tracked. All ditches will be lined to the top of the bank.*
7. *Maintain erosion control measures daily and reseed disturbed areas as needed.*
8. *Inspect all erosion control devices weekly and after each rainfall event. Repair as needed.*
9. *Dewatering of the project is to be done through a silt bag with a floating intake that is that is constantly monitored when in use*
10. *After the site is completely stabilized and the Project Engineer has certified completion and stabilization, contact DEMLR Washington Regional Office @ 252-946-6481 for approval to remove all temporary erosion control devices.*
11. *Permanently Seed/Sod all disturbed areas.*
12. *When the project is complete, the permittee shall contact DEMLR to close out the E&SC Plan.*

SILT FENCE

NOT TO SCALE

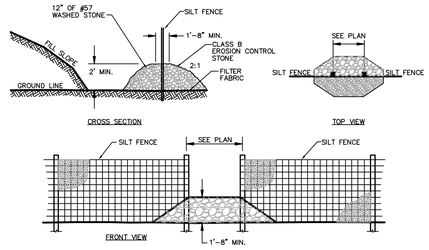


CONSTRUCTION SPECIFICATIONS:
1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS.
2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE GROUND SURFACE. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE).
3. CONSTRUCT THE FILTER FABRIC FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST.
4. SUPPORT STANDARD FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.
5. WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORT POSTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES.
6. EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE MINIMUM 50 POUND TENSILE STRENGTH.
7. EXCAVATE A TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
8. PLACE 12 INCHES OF THE FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
9. BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE.
10. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.

MAINTENANCE:
INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

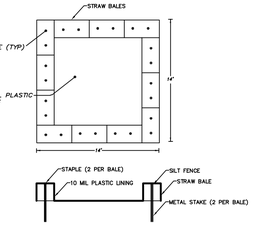
SILT FENCE OUTLET

NOT TO SCALE



CONSTRUCTION SPECS:
1. *CLEAR & GRUB THE AREA AROUND THE SILT FENCE OUTLET AND PROPERLY DISPOSE OF DEBRIS.*
2. *PLACE GRAVEL TO THE SPECIFIC GRADE AS SHOWN PER THE DETAIL.*
3. *PROPERLY OVERLAP STONE BEYOND EDGES OF SILT FENCE OPENING.*

MAINTENANCE:
INSPECT OUTLETS WEEKLY AND AFTER EACH RAIN EVENT. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR AS NEEDED. CAREFULLY CHECK OUTLETS FOR EROSION AND REPAIR IMMEDIATELY. ENSURE THERE IS NO SCOURING APPARENT DOWNSTREAM OF OUTLET. IMMEDIATELY STABILIZE ANY AREAS THAT NEED REPAIR.

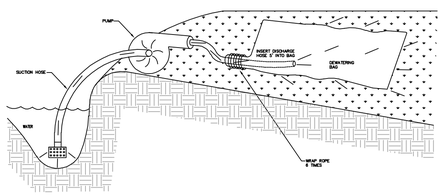


CONSTRUCTION SPECIFICATIONS:
1. CONCRETE WASHOUT SIGN SHALL BE INSTALLED NO FURTHER THAN 25' FROM THE FACILITY AND SHALL BE VISIBLE TO ALL CONSTRUCTION TRAFFIC.
2. POLYETHYLENE SHEETING SHALL BE 10 MILS FREE OF HOLES, TEARS, OR LEAKS.

MAINTENANCE:
FACILITY SHALL NOT BE FILLED MORE THAN 12" FROM THE TOP BEFORE DISPOSING OF CONCRETE. CONCRETE SHALL BE DISPOSED OF IN THE SAME MANNER AS OTHER NON-HAZORDOUS MATERIALS FROM THE SITE OR MAY BE BROKEN UP AND USED AS FILL IN NON-STRUCTURAL AREAS.

CONCRETE TRUCK WASHOUT

NOT TO SCALE



Installation and Use:
1. Place Dewatering Bag on the ground or on a trailer over a relatively level, stabilized area.
2. Insert discharge pipe a minimum of 5ft. inside dewatering bag and secure with a rope wrapped 6 times around the snout over a 6 inch width of the bag.
3. Replace Dewatering Bag when half full of sediment or when the sediment has reduced the flow rate of the pump discharge to an impractical amount.

Maintenance and Disposal:
1. Remove and dispose of accumulated sediment away from waterways or environmentally sensitive areas. Silt open Sediment Bag and remove accumulated sediment. Dispose of bag at an appropriate recycling or solid waste facility. OR; as directed by engineer or inspector.

DEWATERING BAG
SCALE: N.T.S.

OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
100 N. THIRD STREET. BAYBORO. NC 28515

BID SET

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
4	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: TAD	Sheet No. D-01
Checked By: JKV	

Sheet Title
EROSION CONTROL DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 19843 ENGINEER J. MICHAEL STOCKS
9/12/2024

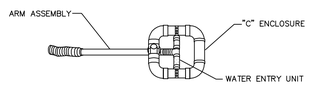
STOCKS ENGINEERING
801 EAST WASHINGTON STREET
NASHVILLE, N.C. 27856
P.O. BOX 1108
PHONE: (252) 459-8196
WWW.STOCKSENGINEERING.COM

BLN=C-1874

SE JOB #2024-092

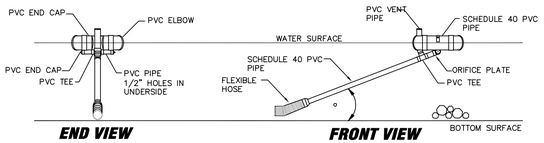
SKIMMER SEDIMENT BASIN

NOT TO SCALE



PERSPECTIVE VIEW

NOT TO SCALE

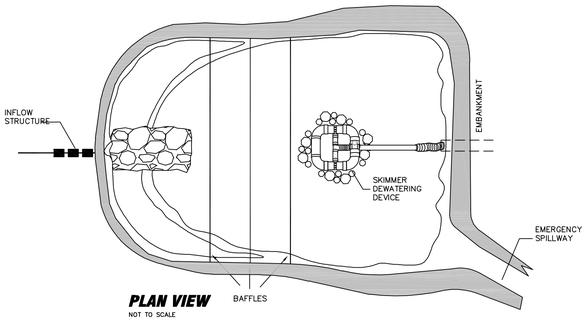


END VIEW

NOT TO SCALE

FRONT VIEW

NOT TO SCALE



PLAN VIEW

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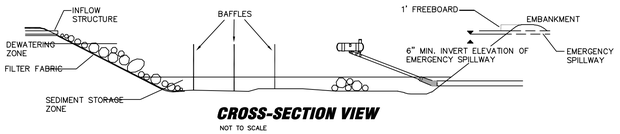


CROSS-SECTION VIEW

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS:

1. Clear, grub, and strip the area under the embankment of all vegetation and root mat. Remove all surface soil containing high amounts of organic matter and stockpile or dispose of it properly. Haul all objectionable material to the designated disposal area. Place temporary sediment control measures below basin as needed.
2. Ensure that fill material for the embankment is free of roots, woody vegetation, organic matter, and other objectionable material. Place the fill in lifts not to exceed 9 inches, and machine compact it. Over fill the embankment 6 inches to allow for settlement.
3. Shape the basin to the specified dimensions. Prevent the skimming device from settling into the mud by excavating a shallow pit under the skimmer or providing a low support under the skimmer of stone or timber.
4. Place the barrel (typically 4–inch Schedule 40 PVC pipe) on a firm, smooth foundation of impervious soil. Do not use pervious material such as sand, gravel, or crushed stone as backfill around the pipe. Place the fill material around the pipe spillway in 4–inch layers and compact it under and around the pipe to at least the same density as the adjacent embankment. Care must be taken not to raise the pipe from the firm contact with its foundation when compacting under the pipe haunches.
Place a minimum depth of 2 feet of compacted backfill over the pipe spillway before crossing it with construction equipment. In no case should the pipe conduit be installed by cutting a trench through the dam after the embankment is complete.
5. Assemble the skimmer following the manufacturers instructions, or as designed.
6. Lay the assembled skimmer on the bottom of the basin with the flexible joint at the inlet of the barrel pipe. Attach the flexible joint to the barrel pipe and position the skimmer over the excavated pit or support. Be sure to attach a rope to the skimmer and anchor it to the side of the basin. This will be used to pull the skimmer to the side for maintenance.
7. Earthen spillways – Install the spillway in undisturbed soil to the greatest extent possible. The achievement of planned elevations, grade, design width, and entrance and exit channel slopes are critical to the successful operation of the spillway. The spillway should be lined with laminated plastic or impermeable geotextile fabric. The fabric must be wide and long enough to cover the bottom and sides and extend onto the top of the dam for anchoring in a trench. The edges may be secured with 8–inch staples or pins. The fabric must be long enough to extend down the slope and exit onto stable ground. The width of the fabric must be one piece, not joined or spliced; otherwise water can get under the fabric. If the length of the fabric is insufficient for the entire length of the spillway, multiple sections, spanning the complete width, may be used. The upper section(s) should overlap the lower section(s) so the water cannot flow under the fabric. Secure the upper edge and sides of the fabric in a trench with staples or pins.
8. Inlets – Discharge water into the basin in a manner to prevent erosion. Use temporary slope drains or diversions with outlet protection to divert sediment–laden water to the upper end of the pool area to improve basin trap efficiency.
9. Erosion control – Construct the structure so that the disturbed area is minimized. Divert surface water away from bare areas. Complete the embankment before the area is cleared. Stabilize the emergency spillway embankment and all other disturbed areas above the crest of the principal spillway immediately after construction.
10. Install porous baffles as specified.
11. After all the sediment–producing areas have been permanently stabilized, remove the structure and all the unstable sediment. Smooth the area to blend with the adjoining areas and stabilize properly.

MAINTENANCE:
Inspect skimmer sediment basins at least weekly and after each significant (one–half inch or greater) rainfall event and repair immediately. Remove sediment and restore the basin to its original dimensions when sediment accumulates to one–half the height of the first baffle. Pull the skimmer to one side so that the sediment underneath it can be excavated. Excavate the sediment from the entire basin, not just around the skimmer or the first cell. Make sure vegetation growing in the bottom of the basin does not hold down the skimmer.

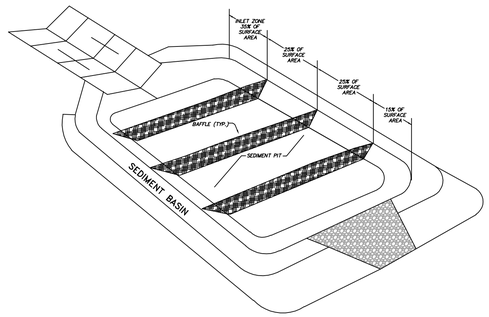
Repair the baffles if they are damaged. Re–anchor the baffles if water is flowing underneath or around them.

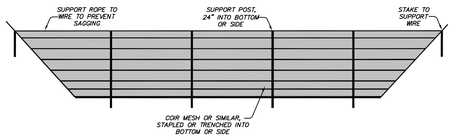
If the skimmer is clogged with trash and there is water in the basin, usually jerking on the rope will make the skimmer bob up and down and dislodge the debris and restore flow. If this does not work, pull the skimmer over to the side of the basin and remove the debris. Also check the orifice inside the skimmer to see if it is clogged; if so, remove the debris.

If the skimmer arm or barrel pipe is clogged, the orifice can be removed and the obstruction cleared with a plumber's snake or by flushing with water. Be sure and replace the orifice before repositioning the skimmer.

Check the fabric lined spillway for damage and make any required repairs with fabric that spans the full width of the spillway. Check the embankment, spillways, and outlet for erosion damage, and inspect the embankment for piping and settlement. Make all necessary repairs immediately. Remove all trash and other debris from the skimmer and pool areas.

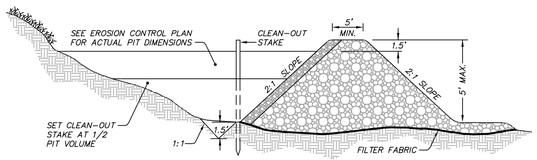
Freezing weather can result in ice forming in the basin. Some special precautions should be taken in the winter to prevent the skimmer from plugging with ice.



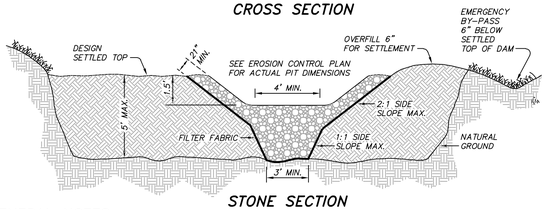


SED BASIN BAFFLES

SCALE: N.T.S.



CROSS SECTION



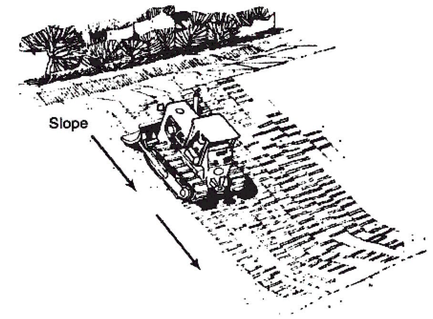
STONE SECTION

GENERAL NOTES:

1. Clear, grub, and strip the area under the embankment of all vegetation and root mat. Remove all surface soil containing high amounts of organic matter and stockpile or dispose of it properly. Haul all objectionable material to the designated disposal area.
2. Ensure that fill material for the embankment is free of roots, woody vegetation, organic matter, and other objectionable material. Place the fill in lifts not to exceed 9 inches and machine compact it. Over fill the embankment 6 inches to allow for settlement.
3. Construct the outlet section in the embankment. Protect the connection between the riprap and the soil from piping by using filter fabric or a keyway cutoff trench between the riprap structure and the soil.
   Place the filter fabric between the riprap and soil. Extend the fabric across the spillway foundation and sides to the top of the dams; or
   Excavate a keyway trench along the centerline of the spillway foundation extending up the sides to the height of the dam. The trench should be at least 2 ft. deep and 2 ft. wide with 1:1 side slopes.
4. Clear the pond area below the elevation of the crest of the spillway to facilitate sediment cleanout.
5. All cut and fill slopes should be 2:1 or flatter.
6. Ensure that the stone (drainage) section of the embankment has a minimum bottom width of 3 ft. and a maximum side slopes of 1:1 that extend to the bottom of the spillway section.
7. Construct the minimum finished stone spillway bottom width, as shown on the plans, with 2:1 side slopes extending to the top of the over filled embankment. Keep the thickness of the sides of the spillway outlet structure at a minimum of 21 inches. The weir must be level and constructed to grade to assure design capacity.
8. Material used in the stone section should be a well–graded mixture of stone with a d size of 9 inches (class B erosion control stone is recommended) and a maximum stone size of 14 inches. The stone may be machine placed and the smaller stones worked into the voids of the larger stones. The stone should be hard, angular, and highly weather–resistant.
9. Ensure that the stone spillway outlet section extends downstream past the toe of the embankment until stable conditions are reached and outlet velocity is acceptable for the receiving stream. Keep the edges of the stone outlet section flush with the surrounding ground and shape the center to confine the outflow stream (References: Outlet Protection).
10. Direct emergency bypass to natural, stable areas. Locate bypass outlets so that flow will not damage the embankment.
11. Stabilize the embankment and all disturbed areas above the sediment pool and downstream from the trap immediately after construction (References: Surface Stabilization).
12. Show the distance from the top of the spillway to the sediment cleanout level (one–half the design depth) on the plans and mark it in the field.

SEDIMENT BASIN

SCALE: N.T.S.



SLOPE TRACKING

SCALE: N.T.S.

CONSTRUCTION SPECIFICATIONS:

Fill Slope
1. Stair–step grade or groove cut slopes with a gradient steeper than 3:1.
Grooving uses machinery to create a series of ridges and depressions that run across the slope (on the contour). Groove using any appropriate implement that can be safely operated on the slope, such as disks, tillers, spring harrows, or the teeth on a front–end loader bucket. Do not make such grooves less than 3 inches deep nor more than 15 inches apart.
2. Use stair–step grading on any erodible material soft enough to be ripped with a bulldozer. Slopes consisting of soft rock with some subsoil are particularly suited to stair–step grading.
3. Make the vertical cut distance less than the horizontal distance, and slightly slope the horizontal position of the 'step' in toward the vertical wall.
4. Do not make individual vertical cuts more than 2 feet in soft materials or more than 3 feet in rocky materials.

Cut Slope
1. Place fill slopes with a gradient steeper than 3:1 in lifts not to exceed 9 inches, and make sure each lift is properly compacted. Ensure that the face of the slope consists of loose, uncompacted fill 4 to 6 inches deep. Use grooving, as described above, to roughen the face of the slopes, if necessary.
2. Do not blade or scrape the final slope face.

Limit roughening with tracked machinery to sandy soils to avoid undue compaction of the soil surface. Tracking is generally not as effective as the other roughening methods described.
Operate tracked machinery up and down the slope to leave horizontal depressions in the soil. Do not back–blade during the final grading operation.

MAINTENANCE:
Periodically check the seeded slopes for rills and washes. Fill these areas slightly above the original grade, then reseed and mulch as soon as possible.

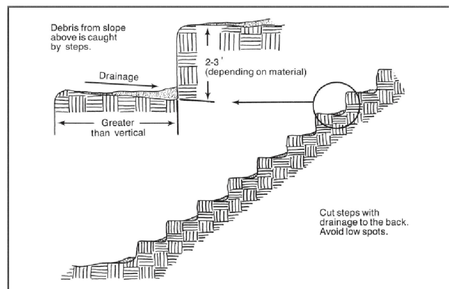


Figure 6.03b Stair stepping cut slopes (modified from Va SWCC).

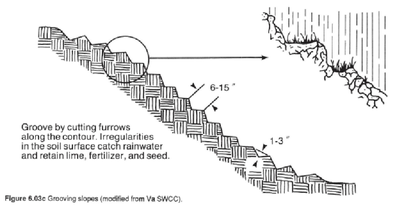


Figure 6.03c Grooving slopes (modified from Va SWCC).

OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET. BAYBORO. NC 28515

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: TAD	Sheet No. D-02
Checked By: JKV	

Sheet Title: EROSION CONTROL DETAILS

NORTH CAROLINA PROFESSIONAL SEAL 19843 ENGINEER J. MICHAEL STOCKS
9/12/2024

STOCKS ENGINEERING
801 EAST WASHINGTON STREET
NASHVILLE, N.C. 27856
P.O. BOX 1108
PHONE: (252) 459–8196
WWW.STOCKSENGINEERING.COM

BLN=C-1874

SE JOB #2024-092

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
• Temporary grass seed covered with straw or other mulches and tackifiers • Hydroseeding • Rolled erosion control products with or without temporary grass seed • Appropriately applied straw or other mulch • Plastic sheeting	• Permanent grass seed covered with straw or other mulches and tackifiers • Geotextile fabrics such as permanent soil reinforcement matting • Hydroseeding • Shrubs or other permanent plantings covered with mulch • Uniform and evenly distributed ground cover sufficient to restrain erosion • Structural methods such as concrete, asphalt or retaining walls • Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

1. Select flocculants that are appropriate for the soils being exposed during construction, selecting from the NC DWR List of Approved PAMS/Flocculants.
2. Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
3. Apply flocculants at the concentrations specified in the NC DWR List of Approved PAMS/Flocculants and in accordance with the manufacturer's instructions.
4. Provide ponding area for containment of treated Stormwater before discharging offsite.
5. Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

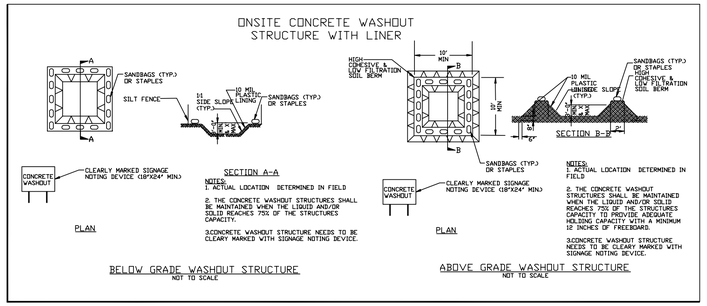
1. Do not dump paint and other liquid waste into storm drains, streams or wetlands.
2. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
3. Contain liquid wastes in a controlled area.
4. Containment must be labeled, sized and placed appropriately for the needs of site.
5. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

1. Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

1. Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
4. Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
5. Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
6. Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
7. Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
8. Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
9. Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
10. At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
3. Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
4. Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

1. Create designated hazardous waste collection areas on-site.
2. Place hazardous waste containers under cover or in secondary containment.
3. Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING

OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
100 N. THIRD STREET. BAYBORO. NC 28515

BID SET

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
	Description	Date

Date: 09.12.24	Project No.: 24017
Drawn By: TAD	Sheet No.: D-03
Checked By: JKV	

Sheet Title: EROSION CONTROL DETAILS

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

(a) Visible sediment deposition in a stream or wetland.

(b) Oil spills if:
- They are 25 gallons or more,
- They are less than 25 gallons but cannot be cleaned up within 24 hours,
- They cause sheen on surface waters (regardless of volume), or
- They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. • If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	• ***Within 24 hours***, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	• ***A report at least ten days before the date of the bypass, if possible***. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days,*** a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	• ***Within 24 hours***, an oral or electronic notification. • ***Within 7 calendar days***, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

(a) The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
(b) The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
(c) Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
(d) Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

BID SET

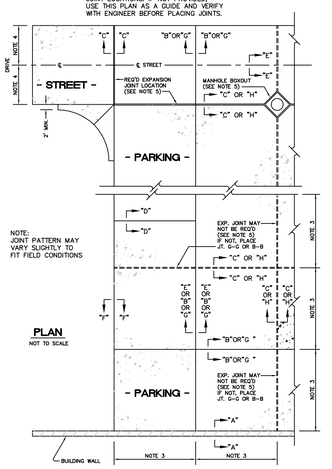
BID SET

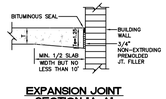
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions
	Description	Date

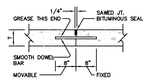
Date: 09.12.24	Project No.: 24017
Drawn By: TAD	Sheet No.: D-04
Checked By: JKV	

Sheet Title:
EROSION CONTROL DETAILS



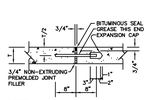


EXPANSION JOINT SECTION "A-A"



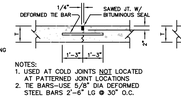
NOTES:
1. CONTRACTION JOINTS TO BE SPACED NOT TO EXCEED 25' O.C.
2. DOWEL BARS SHALL BE 3/4" DIA. x 16" LG. @ 15" O.C.
3. W.W.F. SHALL NOT PASS THRU JOINTS.
4. TO BE USED AT CONTRACTORS OPTION FOR CRACK CONTROL BUT MUST BE USED AT END OF DAYS WORK FOR COLD JOINTS.

DOWELED CONTRACTION JOINT SECTION "B-B"



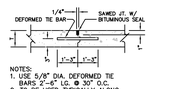
NOTES:
1. DOWEL EXP. JT. SHALL BE SPACED NOT TO EXCEED 50' O.C. FOR BOTH THE TRANSVERSE AND LONGITUDINAL DIRECTION. (SEE JOINTING NOTE 5)
2. DOWEL BARS SHALL BE 3/4" DIA. x 16" LG. @ 15" O.C.
3. W.W.F. SHALL NOT PASS THRU JOINT.

ALTERNATE DOWELED EXPANSION JOINT SECTION "C-C"



NOTES:
1. USED AT COLD JOINTS NOT LOCATED AT PATTERNED JOINT LOCATIONS
2. TIE BARS–USE 5/8" DIA DEFORMED STEEL BARS 2'-6" LG @ 30" O.C.

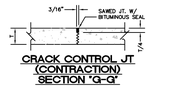
DOWELED CONSTRUCTION JOINT SECTION "D-D"



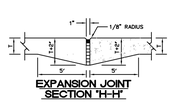
NOTES:
1. USE 5/8" DIA. DEFORMED TIE BARS 2'-6" LG. @ 30" O.C.
2. TO BE USED TYPICALLY ALONG LONGITUDINAL LENGTH OF PAVM'T SUCH AS CENTERLINES ADJACENT TO COLD CONCRETE DOWELED AND KEYED

LONGITUDINAL CONTRACTION JOINT SECTION "E-E"

THICKENED EDGE SECTION "F-F"



CRACK CONTROL JT (CONTRACTION) SECTION "G-G"



EXPANSION JOINT SECTION "H-H"

JOINTING NOTES

1. LONGITUDINAL EXPANSION JOINTS AND EXPANSION JOINTS AROUND PAVEMENT LEVEL STRUCTURES WILL BE OT THE THICKENED-END TYPE.
2. TRANSVERSE EXPANSION JOINTS WILL BE DOWELED TYPE EXCEPT WHERE PAVEMENT FEATURES DICTATE THICKENED EDGE TYPE.
3. TRANSVERSE JOINT SPACING, GENERALLY, SHALL NOT EXCEED THE FOLLOWING UNLESS SHOWN OR NOTED OTHERWISE ON THE CONSTRUCTION DRAWINGS:

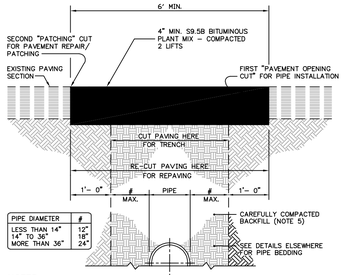
PAVEMENT THICKNESS	TRANSVERSE JOINT SPACING
LESS THAN 8"	12.5' TO 15'
8" TO 10"	15' TO 20'
MORE THAN 10"	20' TO 25'

IN NO CASE SHALL TRANSVERSE JOINT SPACING EXCEED 1.25 TIMES LONGITUDINAL JOINT SPACING.

4. LONGITUDINAL JOINT SPACING:

TYPE	WIDTH
LONGITUDINAL CONTRACTION JOINT SECT. G-G	1/3 X MAX. FOR PAVEMENTS 10" OR LESS IN THICKNESS 15" MAX. FOR PAVEMENTS 10" IN THICKNESS
LONGITUDINAL CONTRACTION JOINT SECT. E-E	REQUIRED ALONG CENTERLINE OF PAVEMENTS 10" OR LESS IN THICKNESS WHERE SLAB WIDTH EXCEEDS 12.5'

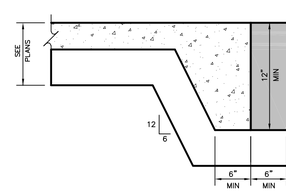
5. EXPANSION JOINTS MAY BE OMITTED, WITH APPROVAL OF ENGINEER, WITHIN PAVEMENTS 10" OR MORE IN THICKNESS OR WHEN CONCRETE IS PLACED DURING WARM WEATHER. EXPANSION JOINTS ARE REQUIRED AT CHANGES IN CONCRETE MASS, ADJACENT TO STRUCTURES, MANHOLES, AND CATCH BASINS.
6. SAWED JOINTS ARE TO BE MADE AS SOON AS CONCRETE HAS GAINED SUFFICIENT STRENGTH TO RETAIN AGGREGATE AGAINST SAWING ACTION



NOTES:
1. PAVEMENT REPAIRS SHALL HAVE 4" TOPPING OF S9.5B MIX
2. TRENCH IS TO BE BACKFILLED IN 6" LIFTS AND COMPACTED TO 95% STANDARD DENSITY AS DETERMINED BY AASHTO TEST METHOD T–99 OR ASTM D–698 BEFORE PAVEMENT REPAIRS ARE MADE.
3. COMPACTION TEST MAY BE REQUIRED AT REQUEST OF INSPECTOR.
4. ALL EXISTING PAVED STREETS AND SECONDARY ROADS WHICH ARE OPEN CUT TO INSTALL SEWER OR WATER PIPE, MUST BE REPAIRED ACCORDING TO THIS DETAIL.
5. ALL BACKFILL TO BE NCDOT SCREENINGS.
6. CABC BACKFILL IS NOT ALLOWED IN ANY PART OF TRENCH
7. MINIMUM PAVEMENT REPAIR WIDTH IS 6'.

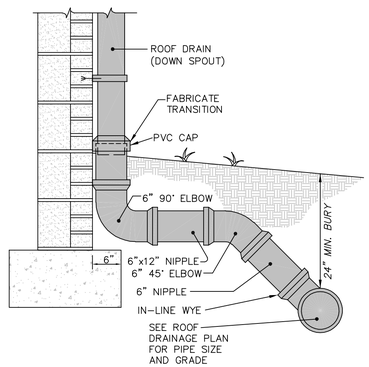
FULL DEPTH ASPHALT PATCH
SCALE: N.T.S

TYPICAL JOINT LOCATIONS
GENERIC DETAIL – WIDTH AND DEPTH OF CONCRETE VARIES
SCALE: N.T.S.



TYPICAL SLAB CRACK CONTROL JOINT DETAIL "SJ"
SCALE: N.T.S.

ASPHALT TO CONCRETE PAVEMENT TRANSITION
SCALE: N.T.S.



ROOF DRAIN TIE–IN
NOT TO SCALE

Asphalt Paving

1. The Contractor or Subcontractor performing the paving operation will be responsible for performing the following:

A. Surface Tolerance

Surface tolerance requirements for smoothness must be checked in the presence of an Inspector using a "Rolling Straightedge" for checking surface tolerance. A variation of more than 1/8" in 10 feet will be considered unacceptable and must be corrected in an acceptable manner which will also meet Item (B and H) below.

B. Surface Texture

Care shall be taken to insure that a smooth dense texture is achieved with no segregation, tearing, cracking, etc. Areas discovered which are not uniform in appearance and texture shall be reheated and rerolled, replaced, or if required by the Engineer, resurfaced at no additional cost to the Owner. Seams and edges shall be straight, true, and smooth.

C. Plant Tickets

To verify depth for payment, plant tickets shall be submitted to the Engineer.

D. Payment of Asphalt

No payment for paving will be made until the surface texture and smoothness has been inspected, satisfactorily repaired, if necessary, and approved by the Engineer and the Owner.

E. Paving Subcontractors

The General Contractor in charge of the Paving Contractor shall be responsible for assuring that his paving Contractor has read these requirements if paving is to be subcontracted. Failure to inform a Subcontractor does not relieve the Prime Contractor of these requirements.

F. Paving Condition

No paving of asphalt shall take place until the Utility Contractor and the Paving Contractor have mutually agreed that all valve boxes and manholes have been set to finished grade and that it is the Paving Contractor's responsibility to make minor adjustments prior to paving, as applicable.

G. Asphalt Specifications

Asphalt and CABC shall meet the NCDOT "Standard Specifications for Roads and Structures", latest revision. Asphalt mix and placement shall meet Division 6 of the State Specifications. CABC shall meet Section 520 of the State Specifications and graded in accordance with Table 520-1. Placement and compaction shall meet Section 520.

H. Asphalt Patching

Asphalt Patching WILL NOT BE ALLOWED. In the event that Asphalt is unsatisfactory to Engineer, the contractor shall mill entire section of asphalt and resurface a minimum depth of one and one-half inch and at minimum length of one hundred feet for the entire width of section in question. This area is to be determined by field inspection with the contractor and/or sub contractor and the Engineer present.

Grading Notes

1. Site Contractor to inform Building Contractor to verify finished grade at building before digging footings. Some portions of the building foundation wall may, of necessity, need to retain building pad fill to allow exterior grades to be dropped. In this case, step footings may be necessary to achieve the desired grade variations.
2. New finished contours shown are top of future paving in areas to receive pavement and top of topsoil in areas to be seeded.
3. Areas outside of the parking lot perimeters shall receive 4 inches of topsoil. This topsoil to be placed and leveled by the Contractor.
4. Dimensions on buildings are for grading purposes only and are not to be used to lay-off footings. See Architectural Plans.
5. Contractor shall notify and cooperate with all utility companies or firms having facilities on or adjacent to the site before disturbing, altering, removing, relocating, adjusting or connecting to said facilities. Contractor shall raise or lower tops of existing manholes, as required, to match finished grades.
6. All catch basin grate and frames are to be Vulcan or approved equal. Verify that dimension heights on castings are not exceeded in critical areas before ordering substitute castings!
7. All areas not covered by building or paving are to be seeded and mulched.
8. Unusable excavated materials and all waste resulting from clearing and grubbing and demolition shall be disposed of off-site by Contractor.
9. All excavation is unclassified and shall include all materials encountered.
10. Before any machine work is done, Contractor shall stake out and mark the items established by the Site Plan. Control points shall be preserved at all times during the course of the project. Lack of proper working points and grade stakes may require cessation of operations until such points and grades have been placed to the Owner's satisfaction.
11. Contractor to ensure all portions of the site have positive drainage. This must be verified prior to paving or pouring concrete.
12. Refer to soils report for directions on earthwork and subgrade preparation, if available.

Concrete Notes

1. All construction, placing, pouring and curing concrete is to conform to the latest edition of ACI 318.
2. All reinforcing steel is to be cold cut and bent.
3. Portland cement concrete shall have a minimum 28 day compressive strength of 4,000 PSI.
4. Do not use chloride in any concrete which has reinforcing steel or wire fabric.
5. Reinforcing steel shall meet ASTM A-615, Grade 60. Welded wire fabric shall meet ASTM A-185. Tie wire shall conform to ASTM A-82.
6. Lap welded wire fabric a minimum of one mesh. Lap all bars a minimum of 24". Alternate adjacent bar splices a minimum of 48".
7. Use only approved chairs with sand plates to support reinforcing on grade.
8. All crossings of reinforcement are to be tied. Supports for reinforcing to hold bars against movement during pour and finish operation. Supports for reinforcing bars to be a minimum of 48 inches apart.
9. Concrete shall be only plant-mixed, transit-mixed or ready-mixed concrete. The time elapsing from mixing to placing the concrete shall not exceed ninety (90) minutes.
10. Concrete shall not be deposited on frozen subgrade and shall not be poured when the air temperature for the succeeding 24-hour period is less than 32 degrees F.
11. All concrete when placed in forms shall have a temperature between 50 degrees F and 90 degrees F and shall be maintained at a temperature of not less than 50 degrees for at least 72 hours for normal concrete and 24 hours for high early strength concrete.
12. Do not place fresh concrete during summer on a dry subgrade. Moisten subgrade before placing concrete.
13. Subgrade is to be firm, free of water and/or silt and undisturbed or compacted properly. Consult Engineer if soft or yielding subgrade is encountered for improvement directions. If ground water is entering subgrade, consult Engineer for instructions.
14. Areas of concrete to be removed shall be saw cut before removing. The saw cut shall provide a smooth, straight edge approximately two (2) inches deep before breaking away the adjacent concrete.
15. Immediately after the forms have been removed and all honeycombed areas are repaired, backfill to prevent underwash.
16. Brooming of the concrete surface shall be done transverse to the direction of traffic for all pedestrian areas.
17. Joint spacing shall be no less than 8-feet. Where existing sidewalks are being widened, transverse joints shall be located so as to line up with existing joints in the adjacent existing sidewalk. Grooved joints shall not be sealed. Seal all others.
18. Concrete Sub shall be responsible for all score joints and expansion joints. A preliminary score joint pattern and expansion joint pattern shall be submitted to the project engineer for review prior to pouring concrete.
19. Expansion joints shall be one-half (1/2) inch in width and shall be placed between all rigid objects at a distance of no more than thirty (30) feet apart and shall extend the full depth of the concrete with the top of the filler one-half (1/2) inch below the finished surface.
20. The edges of the curb/sidewalk shall be finished with an approved edging tool one-half (1/2) inch radius. Joints shall be similarly finished immediately after templates have been removed.
21. Saw control joints as soon as fresh concrete will retain coarse aggregate against the sawing action.
22. Contractor SHALL NOT POUR any concrete before forms are inspected by the project engineer and/or the architect. Any concrete that has not been approved by the engineer and/or owner will be the responsibility of the contractor.

Concrete Testing Requirements

Initial Test

The Initial test (from first ready-mix truck) is to be taken after the second yard is dispatched from the mixer and is to consist of the following:

1. One slump test
2. Pull, prepare and store 3 cylinders on-site for 24 hours.
3. Temperature

Subsequent Tests

After the above tests are pulled from the initial truck, every 5th truck thereafter is to be tested in the same manner as noted above.

Asphalt Testing Requirements

Compaction : Testing for asphalt density is to follow NCDOT "Standard Specifications for Roads and Structures", Section 609-8, "Field Compaction Quality Management," latest revision.
Thickness : The minimum frequency of coring for thickness testing shall be on the basis of test sections consisting of not more than 1500 linear feet of lay down width, exclusive of intersections and irregular areas. The test sample is to be a 6-inch cored sample. The sample is to be numbered and logged for identification purposes.
Contractor's Quality Control System :
Follow NCDOT "Standard Specifications for Roads and Structures", Section 609-5, "Contractor's Quality Control System," latest revision:
Mixture and Job Mix Formula Adjustments :
Follow NCDOT "Standard Specifications for Roads and Structures", Section 609-4, "Field Verification of Mixture and Job Mix Formula Adjustments", latest revision.
General : All other applicable sections of Section 609 of the NCDOT "Standard Specifications for Roads and Structures" shall apply relating to Quality Control Plan, mix design, control limits, corrective action, equipment and measurement.
Testing Cost : Contractor is responsible for cost of testing asphalt and concrete.

Parking, Street or Building Subgrade Preparation

A. *Subgrade on Precompacted Original Soil*

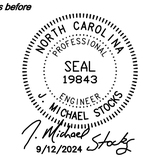
1. Remove all the topsoil and all questionable organic soil and extend a minimum of four (4) feet beyond the outside edge of the pavement.
2. Precompact the exposed grade with a vibratory roller weighing a minimum of ten (10) tons (static load) or equal to stabilize the initial settlement of the top strata of the soil. The stability of the subgrade will be considered adequate when the total settlement after the last four (4) complete passes by the vibratory roller does not exceed 1/8". Any area that settles excessively and fails to stabilize under continued rolling should be further undercut and replaced with properly compacted select granular fill.

B. *Subgrade on Certified Compacted Fill*

1. Prepare the site following the same procedures as outlined in Items 1 and 2 above.
2. Using the same compaction equipment as outlined above, compact new fill soil in +/-8-inch layers to a minimum 98-percent of the maximum dry density at its optimum moisture content in accordance with the Standard Proctor Method, ASTM Standard D 698-78 and field controlled in accordance with ASTM Standard D 2167-84, or equal. The top one (1) foot of the prepared fill subgrade should be compacted to 100-percent of the maximum dry density using the Standard Proctor Method.
3. The end of the fill should be terminated at the minimum slope of two (2) horizontal to one (1) vertical measured from three (3) feet beyond the outside edge of the pavement to the toe of the fill. The fill soil is to be select granular soil weighing a minimum of 110 pcf at its optimum moisture content.

Drainage Notes

1. Boxes may be reinforced masonry, masonry, precast concrete or cast-in-place reinforced concrete.
2. The maximum height of an un-reinforced masonry drainage structure with 8-inch walls shall be limited to 8-foot from invert of the outlet pipe to the top of the casting. Depths greater than 8-feet shall have walls 12-inches thick. Basins over 12-feet in total depth shall be designed by a NC Professional Engineer. Four-inch walls are not allowed on drainage structures.
3. Steps are to be provided on all basins deeper than 42".
4. Steps are to be PS1-PF as manufactured by M. A. Industries or an approved equal. Locate on non-pipe walls.
5. Mortar in masonry boxes is to be type M.
6. Clay brick structures are not allowed.
7. Concrete building brick is to meet ASTM C-55, Grade N, and Type 1.
8. All iron castings are to be drilled and lagged to the drainage structure. The drainage structure as well is to be drilled.
9. All cast-in-place or precast concrete drainage structures located in paved areas accessible to truck loadings to be designed to meet AASHTO HS 20-44 loading. See manufacturer's details for wall, top and bottom thickness.
10. All catch basins grates and frames are to be Vulcan or approved equal. Verify dimensions heights on castings are not exceeded in critical areas before ordering castings!
11. All concrete pipe is to be ASTM C-76, Class III with ram-nek.
12. All frames and grates shall receive a bituminous coating.



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BLN=C-1874

SE JOB #2024-092

OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET. BAYBORO. NC 28515

BID SET

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

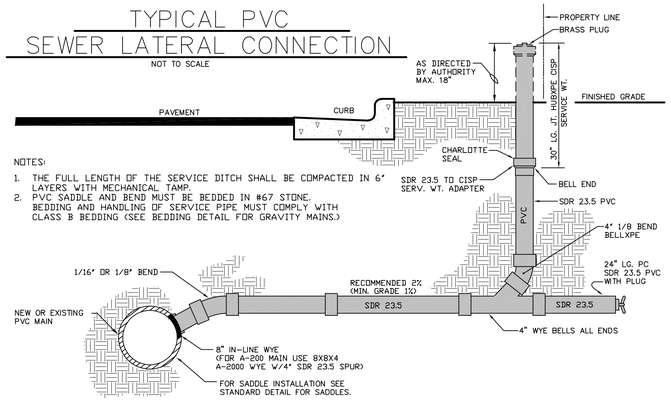
Revisions		
	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: TAD	Sheet No. D-05
Checked By: JKV	

Sheet Title: GENERAL DETAILS

TYPICAL PVC SEWER LATERAL CONNECTION

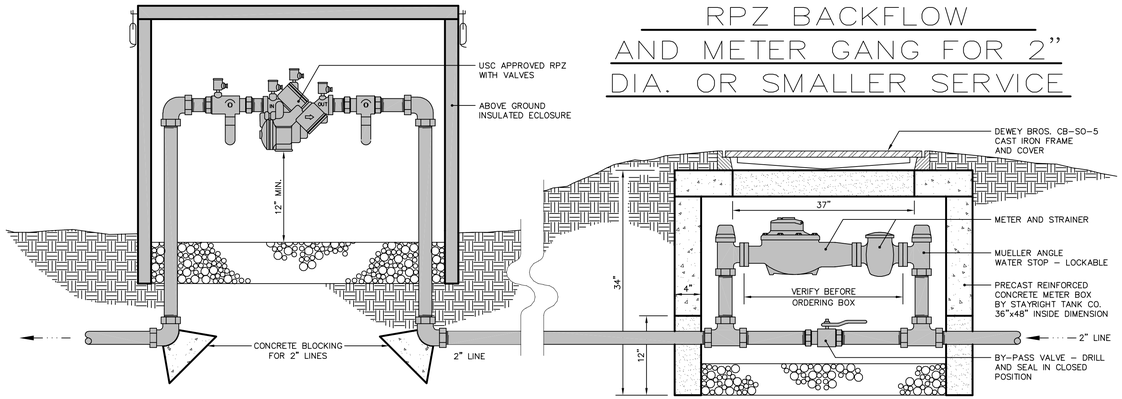
NOT TO SCALE

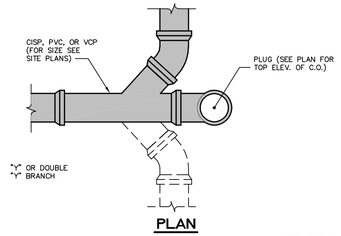


NOTES:

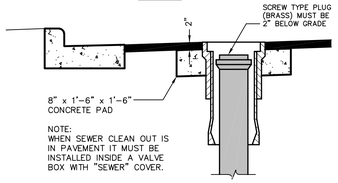
1. THE FULL LENGTH OF THE SERVICE DITCH SHALL BE COMPACTED IN 6" LAYERS WITH MECHANICAL TAMP.
2. PVC SADDLE AND BEND MUST BE BEDDED IN #67 STONE. BEDDING AND HANDLING OF SERVICE PIPE MUST COMPLY WITH CLASS B BEDDING (SEE BEDDING DETAIL FOR GRAVITY MAINS.)

RPZ BACKFLOW AND METER GANG FOR 2" DIA. OR SMALLER SERVICE



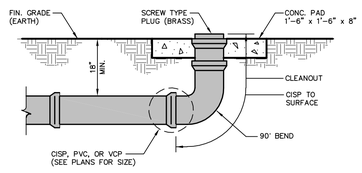


PLAN

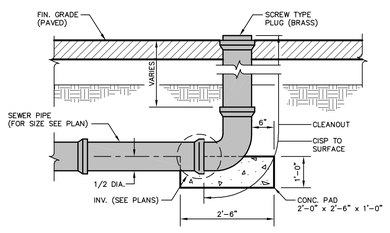


ELEVATION - CLEANOUT IN STREET AREAS

(RAL)



ELEVATION - CLEANOUT IN EARTH AREAS



ELEVATION - CLEANOUT IN PARKING LOT AREAS

TYPICAL CLEANOUT

NOT TO SCALE

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PAMLICO COUNTY
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BID SET

GENERAL NOTE:
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Revisions		
	Description	Date

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19843 J. MICHAEL STOCKS
9/12/2024

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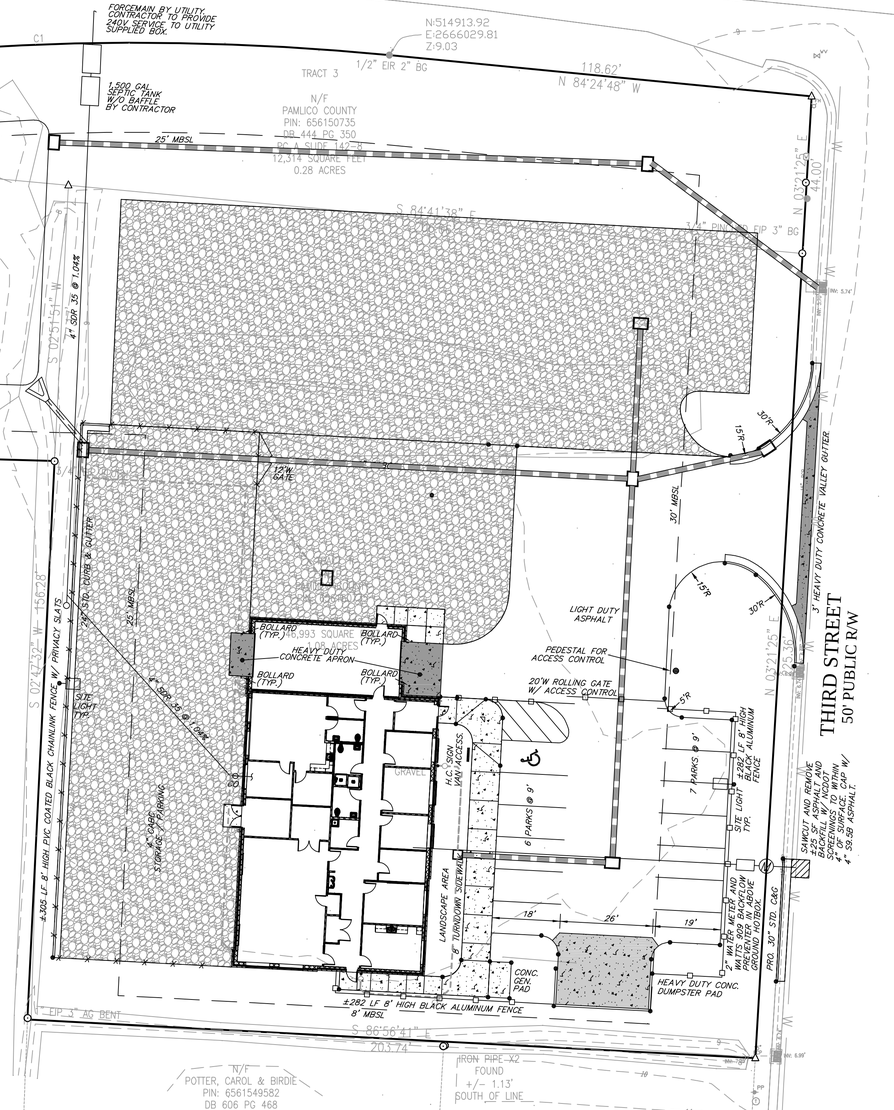
BLN=C-1874

SE JOB #2024-092

Date	Project No.
09.12.24	24017
Drawn By: TAD	Sheet No.: D-06
Checked By: JKV	

Sheet Title: UTILITY DETAILS

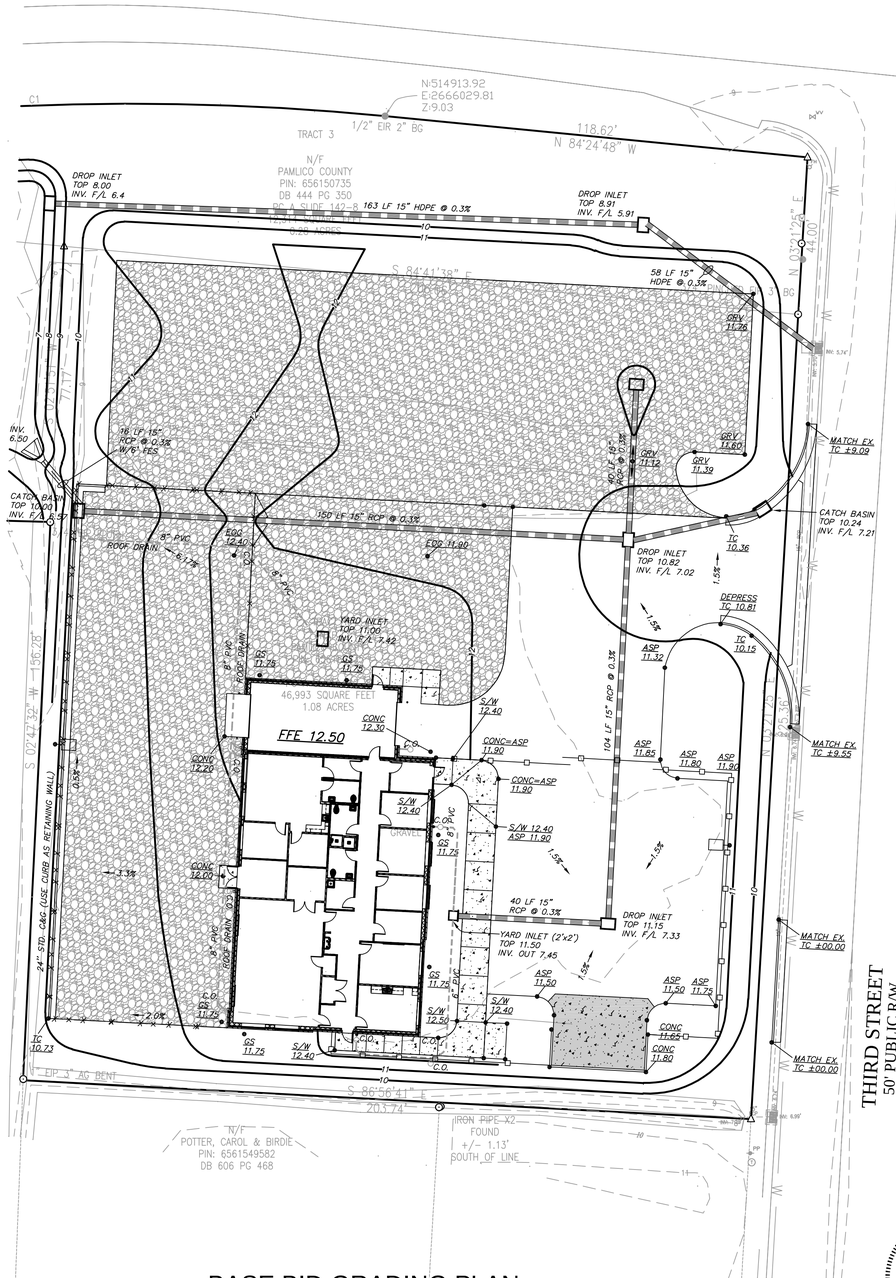


BASE BID SITE PLAN

NC GRID NORTH (NAD 83) 2011

SCALE: 1" = 20'

0 20 40 50 60



BASE BID GRADING PLAN

OCA OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

BID SET

NORTH CAROLINA PROFESSIONAL SEAL 19843 ENGINEER J. MICHAEL STOCKS
J. Michael Stocks 9/12/24

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JN-2024-092 BLN-C-1874

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: Author	Sheet No.: D-07
Checked By: Checker	

Sheet Title:
BASE BID SITE AND GRADING PLAN

DESIGN CRITERIA

BUILDING CODES: 2018 NORTH CAROLINA STATE BUILDING CODE
ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES

RISK CATEGORY: **IV**

DESIGN LIVE LOADS:

		UNIFORM	CONCENTRATED
	ROOF	20 PSF	300 LBS

*ALL LIVE LOADS ARE REDUCED BASED ON TRIBUTARY AREA AS ALLOWED BY THE BUILDING CODES.

SNOW LOAD:	GROUND SNOW LOAD, PG	10 PSF
	IMPORTANCE FACTOR, IS	1.2
	SNOW EXPOSURE FACTOR, CE	1.0
	THERMAL FACTOR, CT	1.0
	FLAT ROOF SNOW LOAD, PF	12 PSF
WIND LOAD:	BASIC WIND SPEED (3 SECOND GUST)	148 MPH
	EXPOSURE CATEGORY	C
	ENCLOSURE CLASSIFICATION	ENCLOSED
	INTERNAL PRESSURE COEFFICIENT, GCPI	±0.18
	TOPOGRAPHY FACTOR, KZT	1.00
	APPLIED DIRECTIONALITY FACTOR, KD	0.85
	WIND BASE SHEAR (X DIRECTION)	26.3 KIPS
	WIND BASE SHEAR (Y DIRECTION)	55.2 KIPS

**ALL BUILDING COMPONENTS AND CLADDING WITH STRUCTURAL DESIGN DELEGATED TO THE CONTRACTOR/MANUFACTURER/SUPPLIER ARE REQUIRED TO BE DESIGNED FOR WIND LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE GOVERNING BUILDING CODE(S).

SEISMIC LOAD:	USGS DESIGN MAP	ASCE 7-10
	DESIGN METHOD	EQUIVALENT LATERAL FORCE
	IMPORTANCE FACTOR, IE	1.5
	SITE CLASS	E
	MAPPED SPECTRAL RESPONSE ACCEL, SS	0.09%G
	MAPPED SPECTRAL RESPONSE ACCEL,S1	0.046%G
	SPECTRAL RESPONSE COEFFICIENT, SDS	0.144%G
	SPECTRAL RESPONSE COEFFICIENT, SD1	0.128%G
	SEISMIC DESIGN CATEGORY	C
	SEISMIC FORCE RESISTING SYSTEM	INTERMEDIATE REINFORCED MASONRY SHEARWALLS
	RESPONSE MODIFICATION COEFFICIENT, RX	3.5
	RESPONSE MODIFICATION COEFFICIENT, RY	3.5
	SEISMIC RESPONSE COEFFICIENT, CS	0.062
	DEFLECTION AMPLIFICATION FACTOR, CDX	2.25
	DEFLECTION AMPLIFICATION FACTOR, CDY	2.25
	SEISMIC BASE SHEAR (X DIRECTION)	22.9 KIPS
	SEISMIC BASE SHEAR (Y DIRECTION)	22.9 KIPS

***ALL BUILDING COMPONENTS AND CLADDING WITH STRUCTURAL DESIGN DELEGATED TO THE CONTRACTOR/MANUFACTURER/SUPPLIER ARE REQUIRED TO BE DESIGNED FOR SEISMIC LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE GOVERNING BUILDING CODE(S).

FUTURE LOADS: UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DESIGN DRAWINGS THERE HAVE BEEN NO DESIGN PROVISIONS MADE TO ACCOMMODATE FUTURE LOADS OR TO ACCOMMODATE FUTURE ADDITIONS TO THE STRUCTURE.

GEOTECHNICAL INFO: FOUNDATION DESIGN IS BASED ON THE PROJECT GEOTECHNICAL ENGINEERING REPORT PREPARED BY SOUTHERN ENGINEERING & TESTING, P.C. DATED AUGUST 28, 2024 PROJECT NUMBER 24-960 REV_01. REPORT RECOMENDS 9" DIAMETER TIMBER PILES. ADDITIONAL TESTING PRIOR TO CONSTRUCTION TO VERIFY. TIMBER PILE DESIGN PARAMETERS ARE BASED ON ALLOWABLE AXIAL CAPACITIES PER PILE OF COMPRESSION: 25 K/PILE; TENSION: 15 K/PILE; LATERAL: 4 K/PILE. ASSUME 40 FT MINIMUM REQUIRED TIP DEPTH BELOW BOTTOM OF GRADE BEAM.

GENERAL

G-01 THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE STRUCTURAL WORK WITH CIVIL, LANDSCAPE ARCHITECTURAL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DOCUMENTS AS WELL AS ANY OTHER APPLICABLE TRADES. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY IDENTIFIED DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

G-02 THE STRUCTURAL CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND EXCEPT WHERE SPECIFICALLY SHOWN DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE, AND PROCEDURES.

G-03 THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE AND FOR APPLICATION OF CONSTRUCTION LOADS TO THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE IS COMPLETE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION AND REMOVAL OF ALL TEMPORARY BRACING, FORMWORK, SUPPORTS, AND SHORING REQUIRED TO STABILIZE THE STRUCTURE DURING CONSTRUCTION. THE CONTRACTOR IS TO UTILIZE A THIRD PARTY STRUCTURAL ENGINEER TO PROVIDE THE DESIGN AND DOCUMENTATION FOR TEMPORARY BRACING, FORMWORK, SUPPORTS AND SHORING AS REQUIRED BY THE PROJECT SPECIFICATIONS.

G-04 THE CONTRACTOR IS TO VERIFY ALL EXISTING SITE GRADING CONDITIONS, EXISTING UTILITIES AND EXISTING BUILDING DIMENSIONS AND CONDITIONS AS THEY APPLY TO THE NEW STRUCTURAL CONSTRUCTION. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY IDENTIFIED DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

G-05 THE CONTRACTOR IS TO PROTECT ALL EXISTING AND NEW UTILITIES, STRUCTURES, AND FACILITIES FROM DAMAGE DURING CONSTRUCTION.

G-06 ANY WORK NOT IN CONFORMANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS OR THE APPLICABLE BUILDING CODE(S) WILL BE CORRECTED BY THE CONTRACTOR IN A MANNER ACCEPTABLE TO THE STRUCTURAL ENGINEER OF RECORD.

G-07 SECTIONS, DETAILS AND NOTES APPLY TO ALL LIKE OR SIMILAR CONDITIONS.

G-08 DO NOT SCALE STRUCTURAL DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION. THE CONTRACTOR IS TO REQUEST ANY DIMENSIONAL INFORMATION REQUIRED.

G-09 THE STRUCTURAL PLANS DO NOT SHOW EVERY OPENING OR PENETRATION REQUIRED THROUGH STRUCTURAL ELEMENTS. THE CONTRACTOR IS TO VERIFY ALL OPENING SIZES AND LOCATIONS WITH OTHER DISCIPLINES, TRADES AND SHOP DRAWINGS. OPENINGS ARE TO BE CONSTRUCTED USING TYPICAL DETAILS AND CRITERIA PROVIDED ON THE STRUCTURAL DRAWINGS. OPENINGS REQUIRED THAT CANNOT CONFORM TO THE TYPICAL DETAILS OR CRITERIA PROVIDED ON THE STRUCTURAL DRAWINGS ARE TO BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR REVIEW.

CONCRETE AND REINFORCING STEEL

C-01 CONCRETE TO MEET THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS (F'C):

INTERIOR SLABS ON GRADE	3,000 PSI, NORMAL WEIGHT
FOOTINGS	3,000 PSI, NORMAL WEIGHT
GROUT	5,000 PSI, NON-SHRINK, NON-METALLIC

C-02 PROVIDE CLEAR COVER ON REINFORCING STEEL PER ACI 318 AND AS INDICATED BELOW:
CONVENTIONALLY REINFORCED CONCRETE

CONCRETE CAST AGAINST AND EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH AND WEATHER*	2" FOR BARS #6 AND LARGER 1 ½" FOR BARS SMALLER THAN #6
CONCRETE NOT EXPOSED TO EARTH AND WEATHER	¾" FOR SLABS AND WALLS

*NOTE: 'EXPOSED TO WEATHER' INCLUDES CONCRETE SURFACES PERMANENTLY EXPOSED TO THE ELEMENTS. CONCRETE SURFACES SUCH AS ROOF SLABS THAT ARE COVERED WITH PROTECTIVE SYSTEMS ARE NOT CONSIDERED TO BE EXPOSED TO WEATHER.

C-03 DETAIL, FABRICATE AND INSTALL ALL REINFORCING STEEL PER STRUCTURAL CONTRACT DOCUMENTS, ACI-318 AND ACI-315.

C-04 DO NOT WELD REINFORCING STEEL UNLESS SPECIFICALLY INDICATED ON STRUCTURAL CONTRACT DOCUMENTS.

C-05 EMBEDDED ITEMS SUCH AS ANCHOR BOLTS, REINFORCING STEEL DOWELS, AND EMBED PLATES ARE TO BE SET AND SECURED IN PLACE PRIOR TO THE PLACEMENT OF CONCRETE. 'WET SETTING' OF EMBEDDED ITEMS IS NOT ACCEPTABLE.

C-06 CLAY BRICK, ROCKS, WOOD, OR CMU BRICK ARE NOT TO BE USED TO SUPPORT REINFORCING STEEL IN FOOTINGS, PILE CAPS, GRADE BEAMS, OR SLABS ON GRADE.

C-07 EXTEND ALL WALL FOOTING REINFORCING STEEL CONTINUOUSLY THROUGH ADJACENT COLUMN FOOTINGS.

C-08 DOWELS EXTENDING FROM CONCRETE ELEMENTS SHOULD MATCH THE SIZE AND SPACING OF MAIN REINFORCING STEEL WHEN NOT SPECIFICALLY NOTED OTHERWISE. REQUIRED LAP LENGTHS FOR DOWELS AND MAIN REINFORCING STEEL IS TO BE PROVIDED PER THE TYPICAL SCHEDULES PROVIDED ON THE STRUCTURAL DRAWINGS.

C-09 LOCATE LAPS IN REINFORCING STEEL AS FOLLOWS, UNLESS SPECIFICALLY NOTED OTHERWISE: CONTINUOUS FOOTINGS - AT CONTRACTOR'S PREFERENCE

C-10 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH AND WITHIN CONCRETE ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

C-11 HORIZONTAL CONSTRUCTION JOINTS IN CONCRETE ELEMENTS ARE NOT ACCEPTABLE WITHOUT PRIOR APPROVAL OF THE ENGINEER.

C-12 THE CONTRACTOR IS TO PROVIDE VERTICAL CONSTRUCTION JOINTS AS NECESSARY TO ENSURE THE QUALITY AND FINISH OF CONCRETE SATISFIES THE PROJECT SPECIFICATIONS. THE CONTRACTOR'S PROPOSED CONSTRUCTION JOINT LOCATIONS ARE TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONCRETE PLACEMENT. REFER TO TYPICAL CONSTRUCTION JOINT DETAILS FOR ADDITIONAL REINFORCING, KEYWAYS AND OTHER REQUIREMENTS.

CONCRETE MASONRY (CMU)

M-01

MASONRY ASSEMBLY 28 DAY COMPRESSIVE STRENGTH (F'M):	1,500 PSI
CONCRETE MASONRY UNIT COMPRESSIVE STRENGTH:	1,900 PSI
MASONRY GROUT, TYPE S, 28 DAY COMPRESSIVE STRENGTH:	2,000 PSI

M-02 DETAIL, FABRICATE AND INSTALL ALL REINFORCING STEEL PER STRUCTURAL CONTRACT DOCUMENTS AND ACI-530.01.

M-03 EMBEDDED ITEMS SUCH AS ANCHOR BOLTS, REINFORCING STEEL DOWELS, AND EMBED PLATES ARE TO BE SET AND SECURED IN PLACE PRIOR TO GROUTING MASONRY UNITS. 'WET SETTING' EMBEDDED ITEMS IS NOT ACCEPTABLE.

M-04 DOWELS EXTENDING FROM CONCRETE ELEMENTS INTO MASONRY SHOULD MATCH THE SIZE AND SPACING OF MAIN REINFORCING STEEL WHEN NOT SPECIFICALLY NOTED OTHERWISE. REQUIRED LAP LENGTHS FOR DOWELS AND MAIN REINFORCING STEEL IS TO BE PROVIDED PER THE TYPICAL SCHEDULES PROVIDED ON THE STRUCTURAL DRAWINGS.

M-05 WALLS, PEDESTALS AND PIERS BELOW GRADE ARE TO HAVE ALL CELLS OF MASONRY UNITS GROUTED SOLID.

M-06 ALL WALLS, PEDESTALS AND PIERS ABOVE GRADE ARE TO HAVE ONLY REINFORCED CELLS OF MASONRY UNITS GROUTED SOLID UNLESS SPECIFICALLY NOTED OTHERWISE ON STRUCTURAL DETAILS.

M-07 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH AND WITHIN CONCRETE MASONRY ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

FOUNDATIONS

F-01 FOOTINGS ARE TO BE FOUNDED AT A DEPTH PROVIDING THE DESIGN BEARING CAPACITY AND AT AN ELEVATION WHERE THE TOP OF THE FOOTING IS BELOW THE FROST PENETRATION DEPTH AS DICTATED BY THE BUILDING CODE BUT NO LESS THAN 12" BELOW THE FINAL, FINISHED GRADE. THE CONTRACTOR IS TO COMPARE THE TOP OF FOOTING ELEVATIONS INDICATED ON THE STRUCTURAL DRAWINGS WITH THE FINAL GRADE INDICATED ON THE CIVIL/LANDSCAPE ARCHITECTURAL DRAWINGS AND NOTIFY THE DESIGN TEAM OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.

F-02 THE CONTRACTOR IS RESPONSIBLE TO ADEQUATELY PROTECT ALL EXCAVATIONS. WHERE REQUIRED, SHORE THE EXCAVATIONS WITH SYSTEMS DESIGNED AND DETAILED BY THE CONTRACTOR'S ENGINEER.

F-03 UNLESS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS, ALL FOUNDATION WALLS AND BASEMENT WALLS ARE TO BE TEMPORARILY BRACED BY THE CONTRACTOR DURING BACKFILL OPERATIONS AND UNTIL SLABS AT TOP OF WALLS HAVE BEEN INSTALLED AND HAVE REACHED DESIGN STRENGTH OR ARE AT LEAST 7 DAYS OLD.

F-04 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES UNDER AND THROUGH FOUNDATION ELEMENTS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

TIMBER PILES

TP-01 SEE DESIGN CRITERIA SECTION FOR MINIMUM PILE REQUIREMENTS BASED ON THE GEOTECHNICAL REPORT RECOMMENDATIONS & SPECIFICATION.

TP-02 TIMBER PILES SHALL MEET THE REQUIREMENTS OF ASTM D-25 AND AWPA C3.

TP-03 TIMBER PILES SHALL BE TREATED WITH CCA (COPPER CHROMATED ARSENATE) OR ACZA (AMMONINACAL COPPER ZINC ARSENATE)

TP-04 WHERE PILE CUT-OFF IS REQUIRED, THE CUTOFF SURFACE SHALL BE TREATED WITH COPPER NAPTHENATE IN ACCORDANCE WITH AWPA M-4.

TP-05 TIMBER PILES SHALL BE INSTALLED BY A QUALIFIED SPECIALTY FOUNDATION CONTRACTOR AND UNDER CONTINUOUS MONITORING BY THE GEOTECHNICAL ENGINEER OR THEIR DESIGNATED REPRESENTATIVE.

TP-06 INSTALL PILE IMPACT PILE DRIVING EQUIPMENT TO A DRIVING RESISTANCE OF 60 KIPS, WHILE MEETING THE MINIMUM TIP DEPTH OF 40 FEET.

TP-07 INSTALL PILE WITHIN 3 INCHES OF THE LAYOUT LOCATION AND DRIVEN WITH IN AXIAL ALIGNMENT OF 1/4 INCH PER FOOT OF VERTICAL.

TP-08 INSTALL PILE DRIVING AS A CONTINUOUS OPERATION WITHOUT STOPPING OVER THE LAST 10 FEET OF PENETRATION.

TP-09 PILE CAPACITY SHALL BE VERIFIED USING A PILE DRIVING ANALYZER (PDA) ON A MINIMUM OF ONE PILE .

TP-10 PDA TESTING SHALL BE PERFORMED ON PILE RESTRIKES AFTER SETUP, WHICH SHALL NOT BE LESS THAN 24 HOURS AFTER COMPLETION OF PILE DRIVING ONSITE.

POST-INSTALLED ADHESIVE/MECHANICAL ANCHORS

A-01 POST-INSTALLED ANCHORS ARE TO BE USED ONLY WHERE INDICATED ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR IS TO SUBMIT ANY PROPOSED POST-INSTALLED ANCHORAGE NOT SHOWN ON THE CONTRACT DOCUMENT TO THE ENGINEER FOR REVIEW.

A-02 ALL POST-INSTALLED ANCHORS ARE TO BE INSTALLED AS INDICATED BY THE STRUCTURAL DRAWINGS AND IN STRICT ACCORDANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS.

A-03 THE BASIS OF DESIGN FOR MECHANICAL ANCHORS ARE THE FOLLOWING PRODUCTS: HILTI KWIK BOLT TZ2; EXPANSION ANCHOR WITH SAFEST SYSTEM; SIMPSON STRONG TIE TITEN HD SCREW ANCHOR; DEWALT POWER-STUD+SD1

A-04 THE BASIS OF DESIGN FOR ADHESIVES/EPOXY ARE THE FOLLOWING PRODUCTS: HILTI HIT-HY200 V3 OR HILTI-RE 500 V3 WITH SAFEST SYSTEM; SIMPSON STRONG TIE SET-3G; DEWALT AC100+GOLD

A-05 THE CONTRACTOR MAY SUBMIT ALTERNATIVE MECHANICAL ANCHORS AND ADHESIVES/EPOXY THAT MEET OR EXCEED THE PROPERTIES AND LOAD CARRYING CAPACITIES OF THE BASIS OF DESIGN PRODUCTS TO THE ENGINEER FOR REVIEW.

A-06 PRIOR TO THE INSTALLATION OF ANY POST-INSTALLED ANCHORS, THE CONTRACTOR IS TO LOCATE ALL REINFORCING STEEL WITHIN STRUCTURAL ELEMENTS USING NON-DESTRUCTIVE METHODS. IF ANCHOR LOCATIONS ARE IN CONFLICT WITH ANY REINFORCING STEEL NOTIFY THE ENGINEER FOR DIRECTION.

STRUCTURAL STEEL

S-01 STEEL PROPERTIES:

W-SHAPES AND CHANNELS:	A992 OR A572 (FY=50 KSI)
ANGLES, BARS, RODS:	A36 (FY=36 KSI)
HOLLOW SECTIONS, HSS:	A500, GRADE B (42 KSI ROUND, 46 KSI RECTANGULAR)
PIPE:	A53, GRADE B, TYPE S (FY=35 KSI)
PLATE:	A36 (FY=36 KSI) AND A572, GRADE 50 (50 KSI) WHERE INDICATED
ANCHOR BOLTS:	F1554, GRADE 36

S-02 DESIGN, DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL PER STRUCTURAL CONTRACT DOCUMENTS AND AISC 360-05 AND AISC 325-05.

S-03 WELD ELECTRODES: E70XX. PERFORM ALL WELDING PER AWS D1.1-4.

S-04 ALL STEEL MEMBER CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR'S ENGINEER FOR THE LOADS INDICATED. WHEN SPECIFIC REACTIONS ARE NOT PROVIDED ON PLANS OR BY NOTE, CONNECTIONS ARE TO BE DESIGNED FOR THE MAXIMUM ALLOWABLE UNIFORM LOADS AS DETERMINED BY PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION FOR THE SECTION, SPAN AND STRENGTH SPECIFIED.

S-05 UNLESS SPECIFICALLY INDICATED, SPLICED STRUCTURAL STEEL MEMBERS ARE NOT ACCEPTABLE. ALL PROPOSED SPLICES MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

S-06 FIELD MODIFICATION OF STRUCTURAL STEEL MEMBERS AND THEIR CONNECTIONS IS PROHIBITED UNLESS THE PROPOSED MODIFICATIONS HAVE BEEN REVIEWED BY THE ENGINEER.

S-07 REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR BLOCK, CLIPS, TABS AND OTHER ATTACHMENTS REQUIRED. SHOW ALL ITEMS ON STRUCTURAL STEEL SHOP DRAWINGS.

S-08 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE OPENINGS, HOLES AND SPECIAL COPING OF STRUCTURAL STEEL MEMBERS REQUIRED FOR THE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH STEEL MEMBERS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

WOOD FRAMING

W-01 WOOD PROPERTIES:

STRUCTURAL LUMBER:	SPRUCE PINE FIR NO.2
PRESSURE TREATED STRUCTURAL LUMBER:	SOUTHERN YELLOW PINE NO.2
ROOF SHEATHING:	PLYWOOD OR OSB, 19/32" STANDARD C.D. EXPOSURE 1, PANEL INDEX 24/16
WALL SHEATHING:	PLYWOOD OR OSB, 7/16" WOOD STRUCTURAL PANELS, STRUCTURAL 1

W-02 DETAIL, FABRICATE AND INSTALL ALL WOOD FRAMING PER STRUCTURAL CONTRACT DOCUMENTS AND NDS-05.

W-03 ALL WOOD FRAMING NOT SHOWN ON STRUCTURAL DRAWINGS SHALL BE THE MINIMUM SIZE REQUIRED BY THE BUILDING CODE.

W-04 ALL CONVENTIONAL LUMBER IN CONTACT WITH CONCRETE OR MASONRY OR CLOSER THAN 18" TO EARTH IS TO BE PRESSURE TREATED SOUTHERN YELLOW PINE AS INDICATED ABOVE. ALL ENGINEERED WOOD PRODUCTS IN CONTACT WITH CONCRETE OR MASONRY OR CLOSER THAN 18" TO EARTH IS TO BE CHEMICALLY TREATED OR WOLMANIZED TO SATISFY AWPA USE CATEGORY 3 OR 4.

W-05 FOLLOW STRUCTURAL DRAWINGS FOR ACCEPTABLE OPENINGS, HOLES AND SPECIAL NOTCHING OF STRUCTURAL WOOD FRAMING MEMBERS REQUIRED FOR THE INSTALLATION OF PLUMBING, ELECTRICAL, TELECOMMUNICATION, MECHANICAL OR OTHER UTILITY LINES AND CONDUIT THROUGH WOOD MEMBERS. THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH DETAILS SHOWN ON THE STRUCTURAL DRAWINGS.

W-06 REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR BLOCKING, EQUIPMENT SUPPORTS, AND ALL OTHER SECONDARY NON-STRUCTURAL FRAMING REQUIRED.

LIGHT GAGE METAL STUD FRAMING

L-01 REFER TO PROJECT SPECIFICATIONS FOR ALL REQUIREMENTS FOR LIGHT GAGE METAL STUD FRAMING. INFORMATION PROVIDED IN THESE GENERAL STRUCTURAL NOTES IS A BRIEF SUMMARY OF MATERIAL AND CONSTRUCTION REQUIREMENTS. ALL CONSTRUCTION IS TO BE IN FULL AND COMPLETE COMPLIANCE WITH THE PROJECT SPECIFICATIONS.

L-02 UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS, THE DESIGN AND DETAILING OF ALL LIGHT GAGE METAL STUD FRAMING IS THE RESPONSIBILITY OF THE CONTRACTOR'S ENGINEER.

L-03 STRUCTURAL DRAWINGS SHOW ASSUMED LOCATIONS FOR ALL CONNECTIONS OF LIGHT GAGE FRAMING SYSTEM(S) TO THE BUILDING STRUCTURE. THE METAL STUD SHOP DRAWINGS SHALL INDICATE THE PROPOSED CONNECTION LOCATIONS AND THE CONTRACTOR IS TO NOTIFY THE DESIGN TEAM OF ANY CONDITIONS THAT DO NOT COMPLY WITH THE ASSUMED LOCATIONS SHOWN ON THE STRUCTURAL DRAWINGS.

L-04 LIGHT GAUGE METAL FRAMING DESIGN AND CONSTRUCTION SHALL CONFORM TO THE AISI NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.

L-05 MINIMUM YIELD STRENGTH(FY)FOR LIGHT GAUGE METAL FRAMING MEMBERS SHALL BE 33,000 PSI FOR 18 GAUGE(43 MILS) AND THINNER. MINIMUM YIELD STRENGTH (FY) FOR MEMBERS SHALL BE 50,000 PSI FOR 16 GAUGE(54 MILS) AND THICKER.

L-06 ALL LIGHT GAUGE METAL STUDS, TRUSSES, TRACKS, BRIDGING AND ACCESSORIES SHALL BE FORMED FROM STEEL HAVING A G-60 GALVANIZED COATING CONFORMING TO ASTM A653 AND C955.

L-07 A MINIMUM OF 10" LENGTH OF UN-PUNCHED STEEL IS REQUIRED AT ENDS OF STUDS AND AT ALL BEARING POINTS AND CONCENTRATED LOADS (NO PUNCHING HOLES OF ANY SIZE IS PERMITTED IN THESE 10 INCHES)

L-08 SPLICES IN LOAD BEARING STUDS IS NOT PERMITTED.

L-09 PROVIDE CONTINOUS TRACK WHERE POSSIBLE. ALL SPLICES IN TRACK REQUIRE A 8" LONG SECTION OF NESTED STUD CENTERED ON THE SPLICE WITH (2)#10 SCREWS EACH SIDE OF SPLICE EACH SIDE OF TRACK.

L-10 LOAD BEARING STUDS SHALL HAVE FULL BEARING AGAINST THE INSIDE TRACK WEB TOP AND BOTTOM. STUD ENDS SHALL BE CUT SQUARE.

L-11 BRIDGING IS TO BE SPACED AT 4'-0"OC VERTICALLY.

L-12 MINIMUM TRACK FASTENING AT FOUNDATION SHALL BE 0.157" DIAMETER POWDER ACTUATED FASTENERS (PAF) SPACED @8"OC WITH 1 1/2" MINIMUM PENETRATION INTO CONCRETE.

L-13 CUTTING OF LOAD BEARING METAL STUDS, TRACK, BRIDGING OR BRACING IS NOT PERMITTED WITHOUT SPECIFIC APPROVAL FROM THE EOR.

L-14 REFER TO ARCHITECTURAL DRAWINGS FOR NON-LOAD BEARING WALLS AND ALL WALL DIMENSIONS.

L-15 REFER TO MEP DRAWINGS FOR ALL WALL PENETRATION SIZES. LOCATE BETWEEN WALL STUDS WHERE POSSIBLE. WHERE PENETRATION IS LARGER THAN STUD SPACING, PROVIDE DOUBLE STUDS EACH SIDE OF PENETRATION WITH TYPE H1 HEADER ABOVE OPENING. OPENINGS SHALL NOT EXCEED 3'-0".

L-16 ALL METAL CONNECTORS SHALL BE PROVIDED BY SIMPSON STRONG-TIE OR THE STEEL NETWORK AND HAVE CORRECT ICC ESR REPORT. CONTRACTOR MUST SUBMIT ANY ALTERNATE PRODUCTS FOR REVIEW BY ENGINEER.

WOOD PREFABRICATED TRUSSES

T-01 TRUSS DESIGN CRITERIA:

ROOF SUPERIMPOSED DEAD LOAD:	10 PSF ON TOP CHORDS 10 PSF ON BOTTOM CHORDS
ROOF SUPERIMPOSED LIVE LOAD:	AS REQUIRED BY BUILDING CODE AND AS SUMMARIZED ABOVE
ROOF WIND UPLIFT LOADS:	DESIGN FOR WIND LOADS DETERMINED USING THE ABOVE DESIGN CRITERIA IN ACCORDANCE WITH THE BUILDING CODE(S)

DESIGN TRUSSES TO TRANSFER WIND AND SEISMIC DRAG FORCES WHERE INDICATED ON THE STRUCTURAL CONTRACT DOCUMENTS.

ROOF TRUSS DEFLECTION DUE TO LIVE LOADS:	SPAN/240
ROOF TRUSS DEFLECTION DUE TO TOTAL LOADS:	SPAN/180

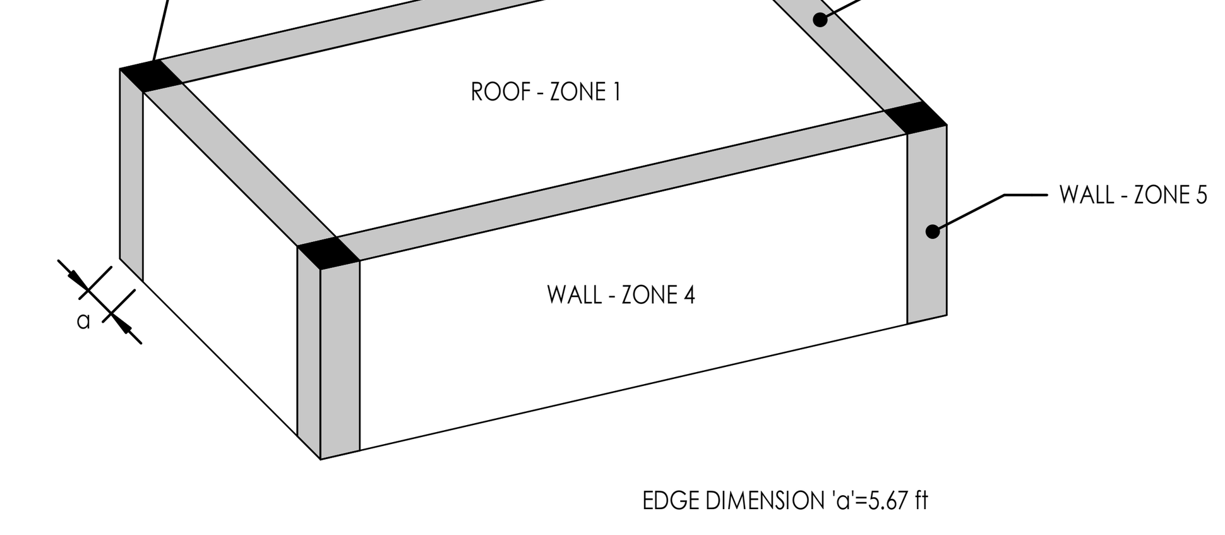
T-02 DESIGN, DETAIL, FABRICATE AND ERECT ALL PREFABRICATED WOOD TRUSSES PER THE STRUCTURAL CONTRACT DOCUMENTS AND *ANSI/TPI 1-2014 NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION*.

T-03 THE CONTRACTOR IS TO PROVIDE TEMPORARY TRUSS BRACING AND PERMANENT MEMBER RESTRAINT/BRACING FOR THE TRUSS SYSTEM(S) PER *TPI DSB-89 RECOMMENDED DESIGN SPECIFICATION FOR TEMPORARY BRACING OF METAL PLATE CONNECTED WOOD TRUSSES AND BCSI/BCSI-B3 SUMMARY SHEETS*. THIS INCLUDES BRACING REQUIRED FOR TRUSSES SPANNING 60 FEET OR MORE. SIZE, LOCATION, SPACING, CONNECTION DETAILS FOR ALL BRACING TO BE INDICATED ON THE TRUSS SUPPLIER'S SHOP DRAWINGS.

T-04 THE TRUSS MANUFACTURER'S ENGINEER IS TO SPECIFY THE TYPE OF CONNECTION HARDWARE REQUIRED AT ALL TRUSS TO TRUSS AND TRUSS TO GIRDER TRUSS CONNECTIONS.

ABBREVIATIONS

@	AT	HD	HEADED
&	AND	HORZ	HORIZONTAL
#	NUMBER	INT	INTERIOR
AB	ANCHOR BOLTS	INFO	INFORMATION
ADDL	ADDITIONAL	JT	JOINT
AFF	ABOVE FINISHED FLOOR	K	KIPS
ALT	ALTERNATE	KSI	KIPS PER SQUARE INCH
ARCH	ARCHITECT / ARCHITECTURAL	LBS	POUNDS
BOT	BOTTOM	LLH	LONG LEG HORIZONTAL
BCX	BOTTOM CHORD EXTENSION	LLV	LONG LEG VERTICAL
BLDG	BUILDING	LWC	LIGHTWEIGHT CONCRETE
BOS	BOTTOM OF STEEL	MAX	MAXIMUM
BRG	BEARING	MC	MOMENT CONNECTION
BTWN	BETWEEN	MECH	MECHANICAL
CANT	CANTILEVER	MEP	MECHANICAL, ELECTRICAL, PLUMBING
CJ	CONTROL JOINT	MFR	MANUFACTURER
CL	CENTERLINE	MIN	MINIMUM
CLR	CLEAR	MISC	MISCELLANEOUS
CMU	CONCRETE MASONRY UNIT	MOW	MIDDLE OF WALL
COL	COLUMN	NS	NEAR SIDE
CONC	CONCRETE	NTS	NOT TO SCALE
CONN	CONNECTION	NWC	NORMAL WEIGHT CONCRETE
CONS	CONSTRUCTION	OC	ON CENTER
CONT	CONTINUOUS	OPNG	OPENING
CORD	COORDINATE	OPP	OPPOSITE HAND
CTRD	CENTERED	PAF	POWDER ACTUATED FASTENER
d	PENNY (NAILS)	PARL	PARALLEL
DBA	DEFORMED BAR ANCHOR	PERP	PERPENDICULAR
DET	DETAIL	PL	PLATE
DIA	DIAMETER	PSF	POUNDS PER SQAURE FOOT
DIM	DIMENSION	PSI	POUNDS PER SQAURE INCH
DIST	DISTANCE	PT	PRESSURE TREATED
DN	DOWN	P-T	POST TENSIONED
DWG	DRAWING	REF	REFERENCE
DWL	DOWEL	REIN	REINFORCING
EA	EACH	REQD	REQUIRED
EE	EACH END	SCH	SCHEDULE
EF	EACH FACE	SIM	SIMILAR
EJ	EXPANSION JOINT	SOG	SLAB ON GRADE
ELEV	ELEVATION	SPEC	SPECIFICATION(S)
EMBD	EMBEDDED / EMBEDMENT	SQ	SQUARE
ENGR	ENGINEER	STD	STANDARD
EOD	EDGE OF DECK	STIF	STIFFENER
EOS	EDGE OF SLAB	STIR	STIRRUP(S)
EQL	EQUAL	STL	STEEL
EW	EACH WAY	TCX	TOP CHORD EXTENSION
EXST	EXISTING	THRU	THROUGH
EXP	EXPANSION	TOC	TOP OF CONCRETE
EXT	EXTERIOR	TOF	TOP OF FOOTING
FDN	FOUNDATION	TOS	TOP OF STEEL
FFE	FINISHED FLOOR ELEVATION	TOW	TOP OF WALL
FOW	FACE OF WALL	TYP	TYPICAL
FRT	FIRE RETARDANT TREATED	UNO	UNLESS NOTED OTHERWISE
FS	FAR SIDE	VERT	VERTICAL
FTG	FOOTING	VIF	VERIFY IN FIELD
GA	GAUGE	W/	WITH
GALV	GALVANIZED	WP	WORK POINT



EDGE DIMENSION 'a'=5.67 ft

COMPONENTS & CLADDING WIND PRESSURES										
CLADDING ZONE	ZONE 1 - ROOF INTERIOR		ZONE 2 - ROOF EDGE		ZONE 3 - ROOF CORNER		ZONE 4 - WALL INTERIOR		ZONE 5 - WALL EDGE	
10 SF	-48.4	19.7	-81.1	19.7	-122.1	19.7	-52.4	48.4	-64.7	48.4
20 SF	-47.1	18.4	-72.5	18.4	-101.2	18.4	-50.3	46.2	-60.3	46.2
50 SF	-45.5	16.8	-61.0	16.8	-73.4	16.8	-47.4	43.3	-54.6	43.3
100 SF	-44.2	15.5	-52.4	15.5	-52.4	15.5	-45.2	41.1	-50.3	41.1
PARAPETS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

1. CLADDING PRESSURES ARE CALCULATED PER ASCE 7-10 AND ARE ULTIMATE LOADS. PRESSURES CAN BE CONVERTED TO ASD WIND PRESSURES BY MULTIPLYING THE ULTIMATE PRESSURES BY 0.6.

2. POSITIVE PRESSURES ARE TOWARD THE SURFACE. NEGATIVE PRESSURES ARE AWAY FROM THE SURFACE.

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

SCALENE DESIGN
FUNCTION + STRUCTURE + FORM
421 N HARRINGTON ST.
SUITE 440
RALEIGH, NC 27603
919.825.0295
FIRM LICENSE #P-1591
SCALENE DESIGN PROJECT NO:
S24-098.00

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
THIRD STREET, BAYBORO, NC

BID SET

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031551 SARAH M. MUSSER
09/12/2024
THIS DOCUMENT WAS ELECTRONICALLY SIGNED BY SARAH M. MUSSER

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

#	Description	Date

Date: 9/12/2024	Project No.: 24017
Drawn By: EOP	Sheet No.: S0.1
Checked By: Checker	

Sheet Title
GENERAL NOTES AND ABREVIATIONS

STATEMENT OF SPECIAL INSPECTIONS

REFER TO PROJECT SPECIFICATIONS FOR ALL REQUIREMENTS FOR SPECIAL INSPECTIONS AND CONSTRUCTION MATERIALS TESTING. THE STATEMENT OF SPECIAL INSPECTIONS DOES NOT INCLUDE CONSTRUCTION MATERIALS TESTING REQUIREMENTS FOR THE PROJECT. ALL CONSTRUCTION IS TO BE IN FULL AND COMPLETE COMPLIANCE WITH THE PROJECT SPECIFICATIONS.

THIS STATEMENT OF SPECIAL INSPECTIONS HAS BEEN PREPARED IN ACCORDANCE WITH THE CHAPTER 17 - STRUCTURAL TESTS AND SPECIAL INSPECTION REQUIREMENTS OF THE BUILDING CODE. IT INCLUDES A SCHEDULE OF SPECIAL INSPECTIONS APPLICABLE TO BUILDING SYSTEMS FOR THIS PROJECT AS WELL AS THE MINIMUM QUALIFICATIONS REQUIRED FOR THE SPECIAL INSPECTOR AND ALL INSPECTORS AND TESTING TECHNICIANS.

THE SPECIAL INSPECTOR WILL KEEP RECORDS OF ALL INSPECTIONS AND FURNISH INSPECTION REPORTS TO THE CONTRACTOR, BUILDING OFFICIAL, ARCHITECT OF RECORD AND STRUCTURAL ENGINEER OF RECORD ON A MONTHLY BASIS UNLESS OTHERWISE AGREED UPON BY ALL PARTIES. DISCREPANCIES ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. THE SPECIAL INSPECTOR WILL TRACK ALL DISCREPANCIES AND WHEN CORRECTED REPORT THE RESOLUTION OF THOSE ITEMS IMMEDIATELY. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF HIS OR HER CONTRACTUAL AND QA/QC RESPONSIBILITIES. A FINAL REPORT OF SPECIAL INSPECTIONS, DOCUMENTING COMPLETION OF ALL REQUIRED SPECIAL INSPECTIONS, TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS, IS TO BE SUBMITTED TO THE CONTRACTOR, BUILDING OFFICIAL, OWNER, ARCHITECT OF RECORD AND STRUCTURAL ENGINEER OF RECORD PRIOR TO ISSUANCE OF A CERTIFICATE OF USE AND OCCUPANCY.

THIS *STATEMENT OF SPECIAL INSPECTIONS* ENCOMPASS THE FOLLOWING DISCIPLINES:
- STRUCTURAL
- REFER TO OTHER DISCIPLINE CONSTRUCTION DOCUMENTS FOR MECHANICAL/ELECTRICAL/PLUMBING, ARCHITECTURAL, AND OTHER SYSTEM SPECIAL INSPECTION REQUIREMENTS.

THIS STATEMENT OF SPECIAL INSPECTIONS INCLUDES THE FOLLOWING BUILDING SYSTEMS:
- SOILS
- DEEP/SPECIAL FOUNDATIONS
- CAST-IN-PLACE CONCRETE
- STRUCTURAL MASONRY
- COLD-FORMED STEEL FRAMING
- WOOD CONSTRUCTION
- WIND RESISTANCE
- SEISMIC RESISTANCE
- MECHANICAL & ELECTRICAL SYSTEMS– SEE OTHER DISCIPLINE CONSTRUCTION DOCUMENTS.
- ARCHITECTURAL SYSTEMS– FIRE-RESISTANT PENETRATIONS AND JOINTS.

BASIC WIND SPEED: 148 MPH
WIND EXPOSURE CATEGORY: C
SEISMIC DESIGN CATEGORY: C
OCCUPANCY CATEGORY IV

MINIMUM QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS
THE QUALIFICATIONS OF PERSONNEL PERFORMING SPECIAL INSPECTION AND TESTING ACTIVITIES ARE SUBJECT TO THE APPROVAL OF THE BUILDING OFFICIAL. THE CREDENTIALS OF ALL INSPECTORS AND TESTING TECHNICIANS ARE TO BE PROVIDED IF REQUESTED.
PROJECT SPECIAL INSPECTOR: LICENSED PROFESSIONAL ENGINEER
MINIMUM QUALIFICATIONS FOR INSPECTORS:

PROFESSIONAL ENGINEER LICENSURE
PE/SE STRUCTURAL ENGINEER – A LICENSED SE OR PE SPECIALIZING IN THE DESIGN OF BUILDING STRUCTURES
PE/GE GEOTECHNICAL ENGINEER – A LICENSED PE SPECIALIZING IN SOIL MECHANICS AND FOUNDATIONS
EIT (C/S) ENGINEER-IN-TRAINING – A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION, CIVIL OR STRUCTURAL SPECIALTY
EIT (G) ENGINEER-IN-TRAINING – A GRADUATE ENGINEER WHO HAS PASSED THE FUNDAMENTALS OF ENGINEERING EXAMINATION, GEOTECHNICAL SPECIALTY

NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)
NICET-ST SOILS TECHNICIAN - LEVEL II
NICET-GET GEOTECHNICAL ENGINEERING TECHNICIAN - LEVEL II

AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION
ACI-CFTT CONCRETE FIELD TESTING TECHNICIAN – GRADE 1
ACI-LTT1 LABORATORY TESTING TECHNICIAN – GRADE 1
ACI-LTT2 LABORATORY TESTING TECHNICIAN – GRADE 2

AMERICAN WELDING SOCIETY (AWS) CERTIFICATION
AWS-CAWI CERTIFIED ASSOCIATE WELDING INSPECTOR
AWS-CWI CERTIFIED WELDING INSPECTOR
AWS/AISC-SSI CERTIFIED STRUCTURAL STEEL INSPECTOR

AMERICAN SOCIETY OF NON-DESTRUCTIVE TESTING (ASNT) CERTIFICATION
ASNT NON-DESTRUCTIVE TESTING TECHNICIAN – LEVEL I
ASNT NON-DESTRUCTIVE TESTING TECHNICIAN – LEVEL II
ASNT NON-DESTRUCTIVE TESTING TECHNICIAN – LEVEL III

INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION
ICC-SMSI STRUCTURAL MASONRY SPECIAL INSPECTOR
ICC-SWSI STRUCTURAL STEEL AND WELDING SPECIAL INSPECTOR
ICC-SFSI SPRAY-APPLIED FIREPROOFING SPECIAL INSPECTOR
ICC-PCSI PRESTRESSED CONCRETE SPECIAL INSPECTOR
ICC-RCSI REINFORCED CONCRETE SPECIAL INSPECTOR
ICC-SSI SOILS SPECIAL INSPECTOR

POST TENSIONING INSTITUTE (PTI) CERTIFICATION
PTI-CT CONCRETE TECHNICIAN – LEVEL 2

DRIVEN DEEP FOUNDATIONS (TIMBER PILES)
INSPECTOR QUALIFICATIONS (ONE OF THE FOLLOWING): PE/SE, PE/GE, EIT (C/S), EIT (G), NICET-ST, NICET-GET, ICC-SSI
DSI-1 **CONTINUOUSLY** VERIFY ELEMENT MATERIALS, SIZES AND LENGTHS COMPLY WITH THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS AND THE PROJECT GEOTECHNICAL REPORT.
DSI-2 **CONTINUOUSLY** DETERMINE CAPACITIES OF TEST ELEMENTS AND CONDUCT ADDITIONAL LOAD TESTS, AS REQUIRED.
DSI-3 **CONTINUOUSLY** OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.
DSI-4 **CONTINUOUSLY** VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO FOUNDATION ELEMENT.

CAST IN PLACE CONCRETE CONSTRUCTION
INSPECTOR QUALIFICATIONS (ONE OF THE FOLLOWING): PE/SE, EIT (C/S), ICC-RCSI, ACI-LTT2
CSI-1 **PERIODICALLY** INSPECT REINFORCING STEEL AND PLACEMENT.
CSI-2 INSPECT REINFORCING STEEL WELDING IN ACCORDANCE STRUCTURAL STEEL CONSTRUCTION SPECIAL INSPECTIONS REQUIREMENTS.
CSI-3 **CONTINUOUSLY** INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.
CSI-4 **PERIODICALLY** INSPECT ANCHORS INSTALLED IN HARDENED CONCRETE.
CSI-5 **PERIODICALLY** VERIFY USE OF REQUIRED DESIGN MIX.
CSI-6 **CONTINUOUSLY** AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.
CSI-7 **CONTINUOUSLY** INSPECT OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.
CSI-8 **PERIODICALLY** INSPECT MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.
CSI-9 **PERIODICALLY** VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.
CSI-10 **PERIODICALLY** INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.

MASONRY (LEVEL 1)
INSPECTOR QUALIFICATIONS (ONE OF THE FOLLOWING): PE/SE, EIT (C/S), ICC-SMSI
MSI-1 **PERIODICALLY** VERIFY COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS.
MSI-2 **PERIODICALLY** VERIFY *F'M* AND *F'AAC* PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY CODE.
MSI-3 **CONTINUOUSLY** VERIFY SLUMP FLOW AND VSI AS DELIVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.
MSI-4 **PERIODICALLY** AS MASONRY CONSTRUCTION BEGINS, VERIFY THE FOLLOWING TO BE IN COMPLIANCE WITH CONSTRUCTION DOCUMENTS:
a. PROPORTIONS OF SITE-PREPARED MORTAR.
B. CONSTRUCTION OF MORTAR JOINTS.
C. LOCATION OF REINFORCEMENT AND CONNECTORS.

MSI-5 **PERIODICALLY, UNO** DURING CONSTRUCTION VERIFY:
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.
B. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.
C. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT AND ANCHOR BOLTS.
D. CONTINUOUSLY INSPECT WELDING OF REINFORCING BARS.
E. PREPARATION, CONSTRUCTION AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).

MSI-6 **PERIODICALLY** PRIOR TO GROUTING, VERIFY THE FOLLOWING TO BE IN COMPLIANCE WITH CONSTRUCTION DOCUMENTS:
a. GROUT SPACE IS CLEAN.
B. PLACEMENT OF REINFORCEMENT AND CONNECTORS
C. PROPORTIONS OF SITE-PREPARED GROUT.
D. CONSTRUCTION OF MORTAR JOINTS.

MS-7 **CONTINUOUSLY** OBSERVE GROUT PLACEMENT TO ENSURE COMPLIANCE WITH CONSTRUCTION DOCUMENTS.
MS-8 **PERIODICALLY** OBSERVE PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS.

FIRE-RESISTANT PENETRATIONS AND JOINTS
FRI-1 INSPECTION OF FIRE-RESISTANT PENETRATIONS & JOINTS PER NCSBC 1705.17.
FRI-2 **PERIODICALLY** INSPECT OF PENETRATION FIRESTOP SYSTEMS BY APPROVED AGENCY IN ACCORDANCE WITH ASTM E2174.
FRI-3 **PERIODICALLY** INSPECT OF FIRE-RESISTANT JOINT SYSTEMS BY APPROVED AGENCY IN ACCORDANCE WITH ASTM E2393.

STRUCTURAL STEEL AND LOAD BEARING METAL STUD CONSTRUCTION
INSPECTOR QUALIFICATIONS (ONE OF THE FOLLOWING): PE/SE, EIT (C/S), ICC-SWSI, AWS/AISC-SSI, AWS-CWI
SSI-1 TO SATISFY CODE SECTION 1704.2.2 "FABRICATOR APPROVAL" TO EXCLUDE SPECIAL INSPECTIONS OF SHOP FABRICATED STRUCTURAL STEEL MEMBERS:
a. OBTAIN FABRICATOR'S AISC BUILDING QMS CERTIFICATION BU DOCUMENTATION.
b. OBTAIN FABRICATOR'S CERTIFICATE OF COMPLIANCE AT COMPLETION OF FABRICATION.

SSI-2 **PERIODICALLY** VERIFY MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK AS FOLLOWS:
A. VERIFY STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360.
B. VERIFY OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.
C. COLLECT MANUFACTURER'S CERTIFIED TEST REPORTS.

SSI-3 **PERIODICALLY** VERIFY WELD FILLER MATERIALS:
a. IDENTIFY MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.
B. COLLECT MANUFACTURER'S CERTIFICATE OF COMPLIANCE.

SSI-4 **PERIODICALLY** INSPECTION OF STEEL FRAME AND LOAD BEARING METAL STUDS DETAILS FOR COMPLIANCE:
A. INSPECT DETAILS SUCH AS BRACING AND STIFFENING.
B. INSPECT MEMBER LOCATIONS.
C. INSPECT APPLICATION OF JOINT DETAILS AT EACH CONNECTION.

SOILS (BELOW STRUCTURES)
INSPECTOR QUALIFICATIONS (ONE OF THE FOLLOWING): PE/SE, PE/GE, EIT (C/S), EIT (G), NICET-ST, NICET-GET, ICC-SSI
GSI-1 **PERIODICALLY** VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
GSI-2 **PERIODICALLY** VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.
GSI-3 **PERIODICALLY** PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS. CONFIRM FILL MATERIALS AND PROCEDURES ARE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
GSI-4 **CONTINUOUSLY** VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL. CONFIRM FILL MATERIALS AND PROCEDURES ARE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
GSI-5 **PERIODICALLY** PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY AND IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.
GSI-6 **CONTINUOUSLY** WHEN GEOTEXTILE OR GEOGRID IS USED FOR SOIL REINFORCING IN THE BUILDING PAD VERIFY USE OF PROPER MATERIALS, INSTALLATION AND COMPACTION ARE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT.

HIGH WIND RESISTANCE SYSTEMS
HWI-1 **PERIODICALLY** INSPECT ALL NAILING, ANCHORING, AND FASTENING OF STRUCTURAL WOOD COMPONENTS PART OF THE WOOD ROOF SYSTEM & SHEATHING.
HWI-2 **PERIODICALLY** INSPECT THE ROOF CLADDING AND WALL CLADDING COMPONENTS AND CONNECTIONS LISTED BELOW ENSURING ALL ITEMS ARE INSTALLED IN CONFORMANCE WITH THE PROJECT DOCUMENTS.
MASONRY CONSTRUCTION FOR MAIN WIND-FORCE RESISTING SYSTEM SUBJECT TO SPECIAL INSPECATIONS.
ROOF CLADDING COMPONENTS SUBJECT TO PERIODIC SPECIAL INSPECTIONS
WALL CLADDING COMPONENTS SUBJECT TO PERIODIC SPECIAL INSPECTIONS

HIGH SEISMIC RESISTANCE SYSTEMS (SEISMIC DESIGN CATEGORY C)
HSI-1 PRIOR TO ANY WORK TAKING PLACE, COLLECT A WRITTEN STATEMENT OF RESPONSIBILITY FROM EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A SEISMIC-RESISTING MATERIAL, SYSTEM, OR COMPONENT.
HSI-2 **PERIODICALLY** INSPECT ALL NAILING, ANCHORING, AND FASTENING OF STRUCTURAL WOOD COMPONENTS PART OF THE SEISMIC FORCE-RESISTING SYSTEM.
HSI-3 COLLECT MANUFACTURER CERTIFICATES AND VERIFY COMPLIANCE WITH ASCE7 REQUIREMENTS FOR ALL MECHANICAL AND ELECTRICAL COMPONENTS.
HSI-4 **PERIODICALLY** INSPECT THE ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER SYSTEMS.
HSI-5 **PERIODICALLY** INSPECT PIPING SYSTEMS INTENDED TO CARRY FLAMMABLE, COMBUSTIBLE, OR HIGHLY TOXIC CONTENTS AND THEIR ASSOCIATED MECHANICAL UNITS.
HSI-6 **PERIODICALLY** INSPECT DURING THE INSTALLATION OF VIBRATION ISOLATION SYSTEMS ACCOMMODATING NOMINAL CLEARANCES OF ¼ INCH OR LESS.
HSI-7 **PERIODICALLY** INSPECT HVAC DUCTWORK THAT WILL CONTAIN HAZARDOUS MATERIALS.
HSI-8 **PERIODICALLY** INSPECT ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES DURING FABRICATION AND INSTALLATION.

OCA
OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

SCALENE DESIGN
FUNCTION + STRUCTURE + FORM
421 N HARRINGTON ST.
SUITE 440
RALEIGH, NC 27603
919.825.0295
FIRM LICENSE #P-1591
SCALENE DESIGN
PROJECT NO:
S24-098.00

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
THIRD STREET, BAYBORO, NC

BID SET

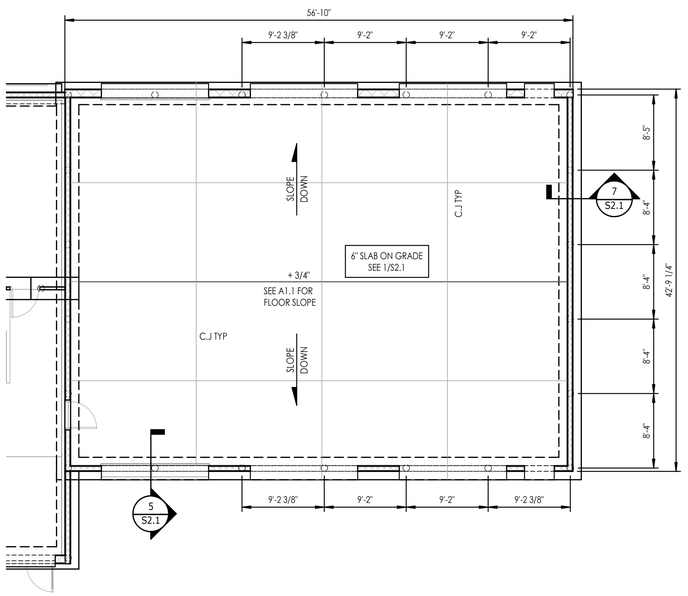
NORTH CAROLINA
PROFESSIONAL
SEAL
031551
ENGINEER
SARAH M. MUSSER
[illegible]
09/12/2024
THIS DOCUMENT WAS ELECTRONICALLY SIGNED BY SARAH M. MUSSER

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions #	Description	Date

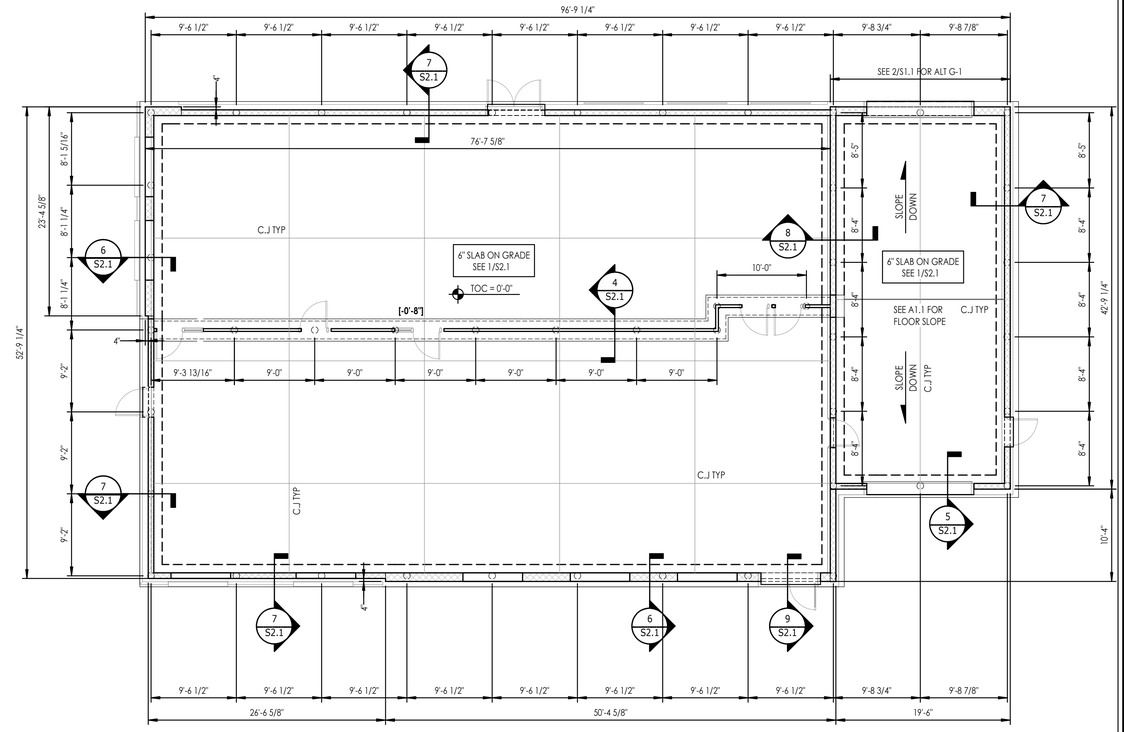
Date	Project No.
9/12/2024	24017
Drawn By: EOP	Sheet No.
Checked By: SMM	S0.2

Sheet Title
STATEMENT OF SPECIAL INSPECTIONS



2 FOUNDATION PLAN- ALTERNATE G-1

1/8" = 1'-0"



1 FOUNDATION PLAN

1/8" = 1'-0"

PLAN NOTES:

1. SEE S0.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. TOP OF SLAB ELEVATION = 0'-0" UNLESS NOTED OTHERWISE. SEE 1/S2.1 FOR SLAB CONSTRUCTION DETAILS.
3. **[xxx'-xx"]** INDICATES TOP OFGRADE BEAM. TOP OF GRADE BEAM [-1'-4"], UNO.
4. SEE SECTION FOR DIMENSION OF GRADE BEAM FROM INSIDE FACE OF CMU WALL. TIMBER PILE CENTERED BELOW GRADE BEAM.
5. DETERMINE LOCATIONS OF ALL FLOOR DRAINS, SLOPES TO DRAINS, AND SLAB DEPRESSIONS FROM ARCHITECTURAL DRAWINGS.
6. SEE S2.1 FOR MISCELLANEOUS TYPICAL FOUNDATION DETAILS.

LEGEND:

XXX'-XX" — TOP OF SLAB ELEVATION

METAL STUD WALL

NON-LOAD BEARING PARTITION SEE ARCH

C.J — SLAB CONTROL JOINT

XXX'-XX" XXX'-XX" XXX'-XX" — STEP IN TOP OF GRADE BEAM ELEVATION

CMU WALL

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252-937-2500
305 W. Martin Street, Raleigh, NC 27601

SCALENE DESIGN
421 N HARRINGTON ST. RALEIGH, NC 27603
919.833.0295
FIRM LICENSE #P-1391
CERTIFICATE OF AUTHORIZATION
PROJECT NO.
524-09610

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
THIRD STREET, BAYBORO, NC

BID SET

NORTH CAROLINA PROFESSIONAL SEAL 031551 ENGINEER SARAH M. MUSSER

09/12/2024

THIS DOCUMENT WAS ELECTRONICALLY SIGNED BY SARAH M. MUSSER

GENERAL NOTE:
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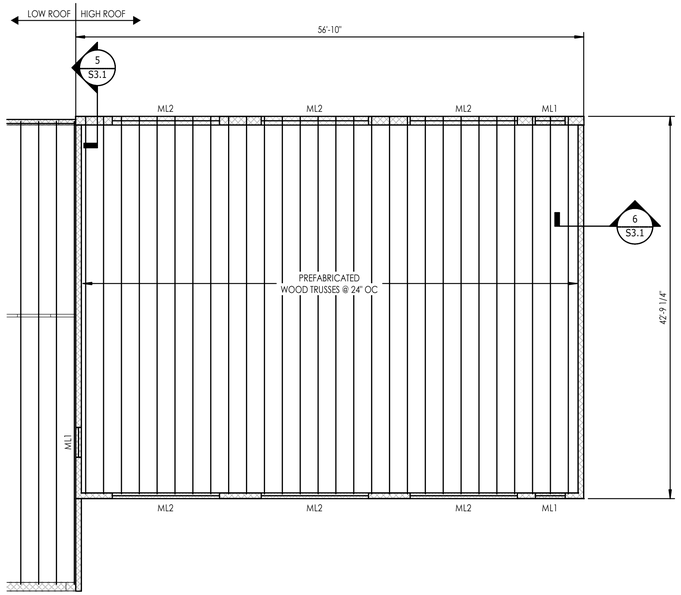
Revisions		
#	Description	Date

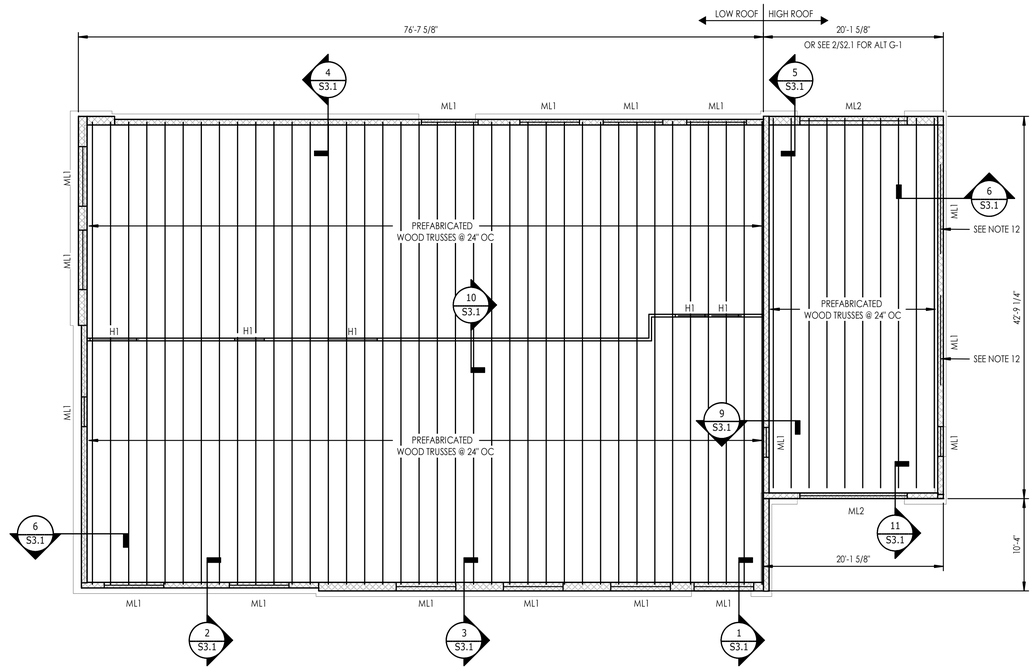
Date	Project No.
9/12/2024	24017
Drawn By: EOP	Sheet No.: S1.1
Checked By: SMM	

Sheet Title: FOUNDATION PLAN



2 ROOF FRAMING PLAN - ALTERNATE G-1

1/8" = 1'-0"



NOTES:

1. SEE S0.1 FOR GENERAL STRUCTURAL NOTES AND ABBREVIATION LEGEND.
2. LOW ROOF TRUSS BEARING ELEVATION = +12'-1 1/2" UNLESS NOTED OTHERWISE.
3. HIGH ROOF TRUSS BEARING ELEVATION = +16'-1 1/2" UNLESS NOTED OTHERWISE.
4. SEE 10/S2.1FOR LOAD BEARING METAL STUD WALL FRAMING REQUIRMENTS.
5. **DI** INDICATES 19/32" PLYWOOD ROOF DECK. SEE 7/S3.1 FOR ROOF SHEATHING CONSTRUCTION DETAIL.
6. **H#** INDICATES METAL STUD HEADER. SEE 12/S3.1.
7. **ML#** INDICATES MASONRY LINTEL. SEE 3/S2.2
8. DIMENSIONS ARE TO OUTSIDE FACE OF CMU STUD WALLS UNLESS NOTES OTHERWISE. REFER TO ARCHITECTURAL DRAWING FOR ALL INTERIOR WALL LOCATIONS AND OTHER DIMENSIONS.
9. PREFABRICATED WOOD ROOF TRUSSES ARE TO BE DESIGNED TO SUPPORT THE MECHANICAL UNITS SHOWN ON THE MECHANICAL PLAN. COORDINATE THE EXACT LOCATIONS AND SIZE OF THE UNITS BASED ON THE MEP DRAWINGS. CONFIRM UNIT WEIGHTS DO NOT EXCEED MAXIMUM WEIGHTS 250#.
10. SEE ARCHITECTURAL DRAWING TO DETERMINE ALL ROOF SLOPES AND ROOF GEOMETRY.
11. SEE S3.1 FOR MISCELLANEOUS TYPICAL ROOF FRAMING DETAILS.
12. IN ADDITION TO MINIMUM WALL REINFORCMENT PER SECTIONS & DETAILS, PROVIDE MASONRY LINTEL ML1, LOOSE LINTEL ANGLE, & JAMB REIN FOR 10' KNOCK-OUT PANEL FOR FUTURE EXPANSION IN BASE BUILDING, SEE ARCH FOR DETAILS.

LEGEND:

METAL STUD WALL

CMU WALL

D# SHEATHING SPAN DIRECTION

NON-LOAD BEARING PARTITION

1 ROOF FRAMING PLAN

1/8" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252-937-2500
305 W. Martin Street, Raleigh, NC 27601

SCALENE DESIGN
PROJECT DESIGN & ENGINEERING
421 N HARRINGTON ST. RALEIGH, NC 27603 919.832.0295
FIRM LICENSE #P-1391 CORE LICENSE #C-0424 PROJECT NO. 524-09610

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
THIRD STREET, BAYBORO, NC

BID SET

NORTH CAROLINA PROFESSIONAL SEAL 031551 ENGINEER SARAH M. MUSSER

9/12/2024

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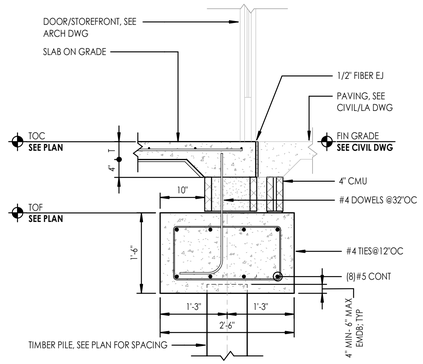
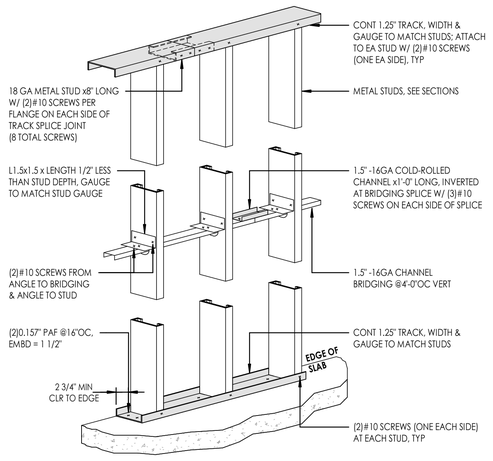
Date	Project No.
9/12/2024	24017
Drawn By: EOP	Sheet No.
Checked By: SMM	S1.2

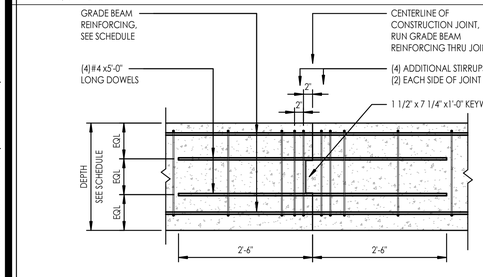
Sheet Title
ROOF FRAMING PLAN

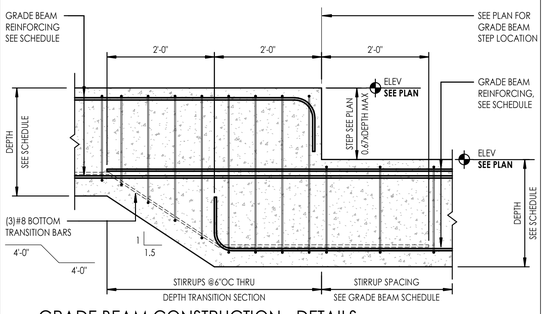


9 EXTERIOR TURNDOWN SLAB EDGE W/ PAVING
3/4" = 1'-0"

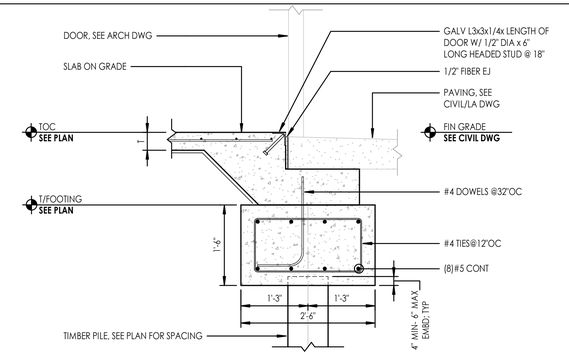


10 LOAD BEARING WALL CONSTRUCTION
3/4" = 1'-0"

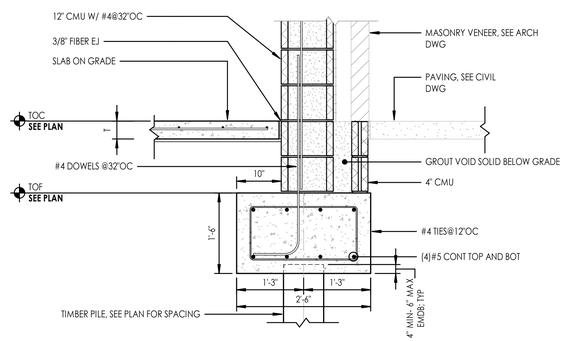




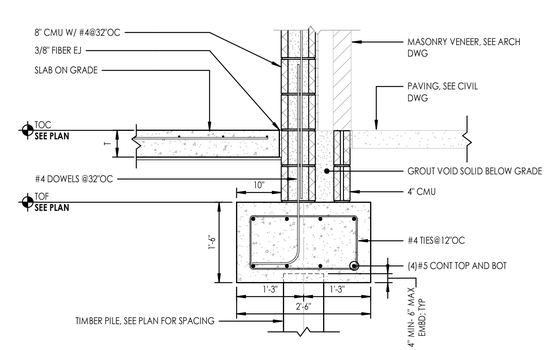
11 GRADE BEAM CONSTRUCTION - DETAILS
3/4" = 1'-0"



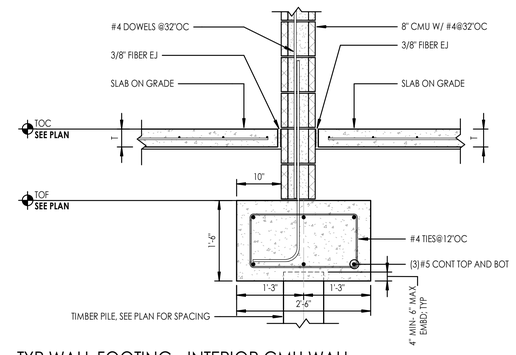
5 EXT TURNDOWN SLAB EDGE W/ PAVING
3/4" = 1'-0"



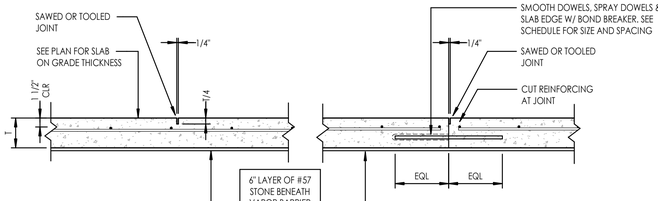
6 TYP WALL FOOTING - CMU
3/4" = 1'-0"

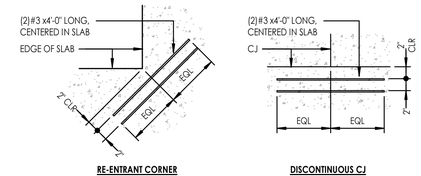


7 TYP WALL FOOTING - CMU
3/4" = 1'-0"



8 TYP WALL FOOTING - INTERIOR CMU WALL
3/4" = 1'-0"





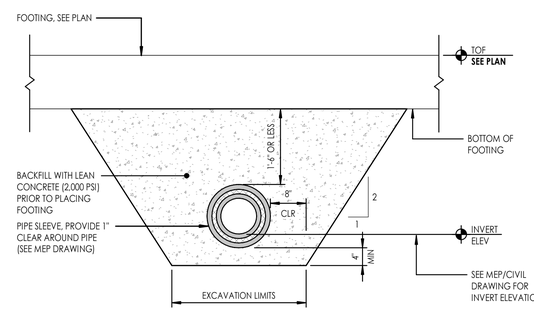
NOTES:

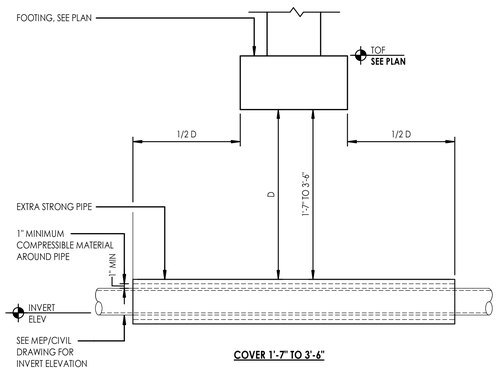
1. SEE PLAN FOR CONTROL JOINT (CJ) LAYOUT. PROVIDE ADDITIONAL JOINTS AS REQUIRED TO MAINTAIN MAXIMUM CONTROL JOINT SPACING PER SCHEDULE.
2. SAW CUT CONTROL JOINTS AS SOON AS CONCRETE CAN SUPPORT WEIGHT OF EQUIPMENT BUT NOT MORE THAN 4 HOURS AFTER SLAB PLACEMENT.
3. LOCATION OF SLAB CONSTRUCTION JOINTS TO BE DETERMINED BY CONTRACTOR AND SUBMITTED TO ENGINEER FOR REVIEW.
4. SEE SOIL REPORT FOR PROPER PREPARATION AND COMPACTION UNDER SLAB.

SLAB REINFORCING SCHEDULE

T	SLAB REINFORCING	CONSTRUCTION JOINT DOWELS	MAX CJ SPACING
6" SLAB	#5@12"OC EACH WAY	3/4" DIAMETER x12" LONG @18"OC	16 FEET

1 SLAB ON GRADE CONSTRUCTION
1" = 1'-0"

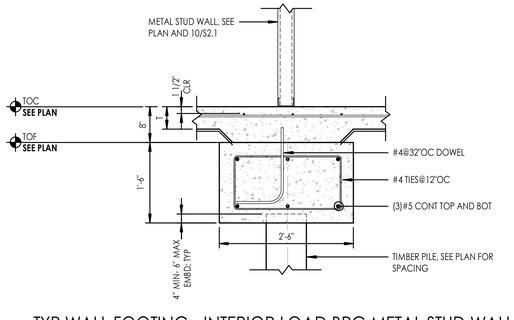




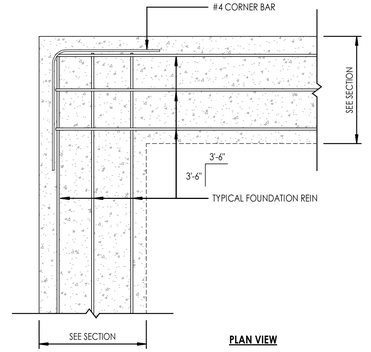
NOTES:

1. UTILITIES MAY NOT PASS THROUGH OR UNDER COLUMN FOOTINGS. ALL UTILITIES ARE TO BE INSTALLED AWAY FROM COLUMN FOOTINGS AND PRIOR TO CONSTRUCTION OF CONTINUOUS/STRIP FOOTINGS.
2. UTILITIES WITH COVER GREATER THAN 3'-6" DO NOT REQUIRE PROTECTION UNLESS SPECIFICALLY REQUIRED BY MEP/CIVIL ENGINEER.

2 UTILITY BELOW FOOTING
3/4" = 1'-0"



4 TYP WALL FOOTING - INTERIOR LOAD BRG METAL STUD WALL
3/4" = 1'-0"



PLAN VIEW

3 CORNER BAR IN GRADE BEAM
3/4" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

SCALENE DESIGN
PLANTATION ARCHITECTURE
421 N HARRINGTON ST. RALEIGH, NC 27603
919.833.0295
FIRM LICENSE #P-1591
CORE LICENSE #C-0624
PROJECT NO: 524-09610

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
THIRD STREET, BAYBORO, NC

BID SET

NORTH CAROLINA PROFESSIONAL SEAL 031551 ENGINEER SARAH M. MUSSER
09/12/2024
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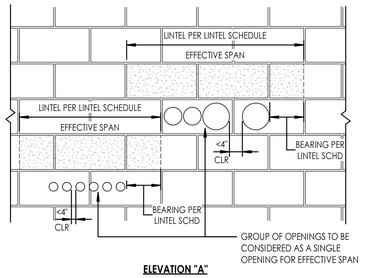
Revisions

#	Description	Date

Date	Project No.
9/12/2024	24017
Drawn By: EOP	Sheet No.: S2.1
Checked By: SMM	

Sheet Title: FOUNDATION SECTIONS & DETAILS

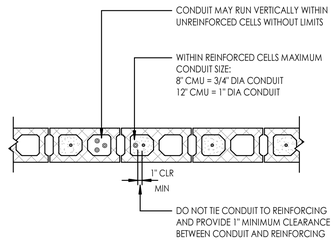


ELEVATION "A"
GROUPED UTILITY PENETRATION

NOTES:

1. OPENINGS OR PENETRATIONS IN CMU WALLS FOR UTILITES LESS THAN 8" IN GREATEST DIMENSION DO **NOT** REQUIRE LINTELS PROVIDED THERE IS A MINIMUM OF AT LEAST 4" CLEAR BETWEEN ADJACENT OPENINGS.
2. ADJACENT OPENINGS OR PENETRATIONS CLOSER THAN 4" SHOULD BE TREATED AS A SINGLE OPENING PER ELEVATION "A" AND A LINTEL SHALL BE PROVIDED AS SCHEDULED FOR THE "EFFECTIVE SPAN".

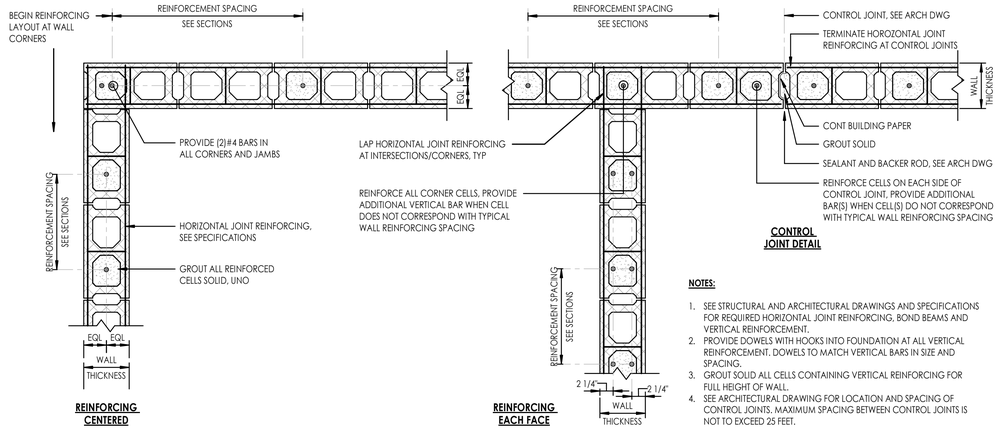
4 UTLITIES THROUGH AND WITHIN CMU WALL
3/4" = 1'-0"



CMU WALL: PLAN VIEW
SPACING REQUIRED FOR UTILITY PENETRATION

NOTES:

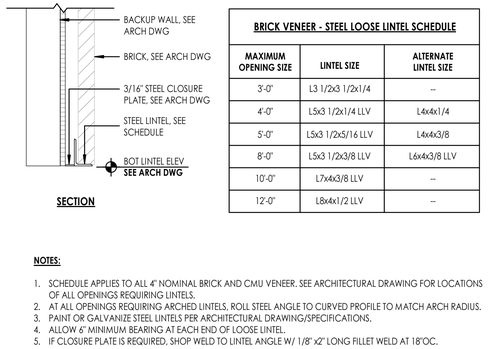
1. CONDUIT MAY **NOT** VERTICALLY PENETRATE BOND BEAMS OR LINTELS.



NOTES:

1. SEE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED HORIZONTAL JOINT REINFORCING, BOND BEAMS AND VERTICAL REINFORCEMENT.
2. PROVIDE DOWELS WITH HOOKS INTO FOUNDATION AT ALL VERTICAL REINFORCEMENT. DOWELS TO MATCH VERTICAL BARS IN SIZE AND SPACING.
3. GROUT SOLID ALL CELLS CONTAINING VERTICAL REINFORCING FOR FULL HEIGHT OF WALL.
4. SEE ARCHITECTURAL DRAWING FOR LOCATION AND SPACING OF CONTROL JOINTS. MAXIMUM SPACING BETWEEN CONTROL JOINTS IS NOT TO EXCEED 25 FEET.

1 TYPICAL CMU WALL REINFORCING
1" = 1'-0"



SECTION

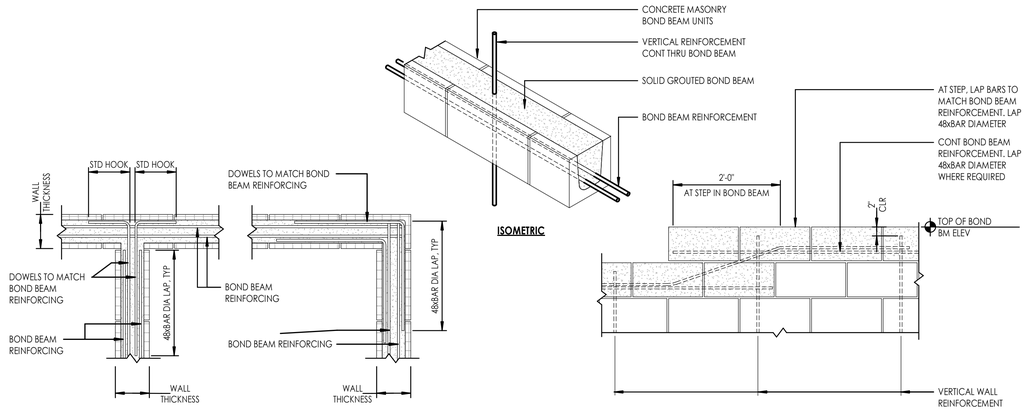
BRICK VENEER - STEEL LOOSE LINTEL SCHEDULE

MAXIMUM OPENING SIZE	LINTEL SIZE	ALTERNATE LINTEL SIZE
3'-0"	L3 1/2x3 1/2x1/4	--
4'-0"	L5x3 1/2x1/4 LLV	L4x4x1/4
5'-0"	L5x3 1/2x5/16 LLV	L4x4x3/8
8'-0"	L5x3 1/2x3/8 LLV	L6x4x3/8 LLV
10'-0"	L7x4x3/8 LLV	--
12'-0"	L8x4x1/2 LLV	--

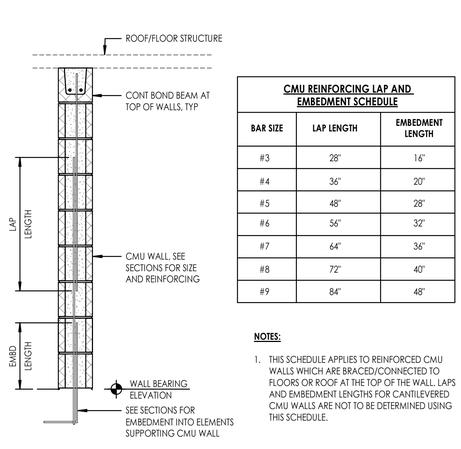
NOTES:

1. SCHEDULE APPLIES TO ALL 4" NOMINAL BRICK AND CMU VENEER. SEE ARCHITECTURAL DRAWING FOR LOCATIONS OF ALL OPENINGS REQUIRING LINTELS.
2. AT ALL OPENINGS REQUIRING ARCHED LINTELS, ROLL STEEL ANGLE TO CURVED PROFILE TO MATCH ARCH RADIUS.
3. PAINT OR GALVANIZE STEEL LINTELS PER ARCHITECTURAL DRAWING/SPECIFICATIONS.
4. ALLOW 6" MINIMUM BEARING AT EACH END OF LOOSE LINTEL.
5. IF CLOSURE PLATE IS REQUIRED, SHOP WELD TO LINTEL ANGLE W/ 1/8" x2" LONG FILLET WELD AT 18"OC.

5 STEEL LOOSE LINTEL SCHEDULE
3/4" = 1'-0"



2 CMU BOND BEAM DETAILS
3/4" = 1'-0"



CMU REINFORCING LAP AND EMBEDMENT SCHEDULE

BAR SIZE	LAP LENGTH	EMBEDMENT LENGTH
#3	28"	16"
#4	36"	20"
#5	48"	28"
#6	56"	32"
#7	64"	36"
#8	72"	40"
#9	84"	48"

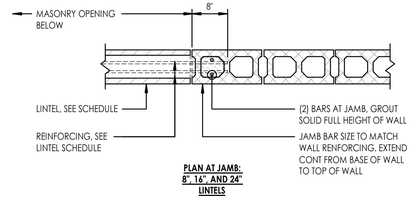
NOTES:

1. THIS SCHEDULE APPLIES TO REINFORCED CMU WALLS WHICH ARE BRACED/CONNECTED TO FLOORS OR ROOF AT THE TOP OF THE WALL. LAPS AND EMBEDMENT LENGTHS FOR CANTILEVERED CMU WALLS ARE NOT TO BE DETERMINED USING THIS SCHEDULE.

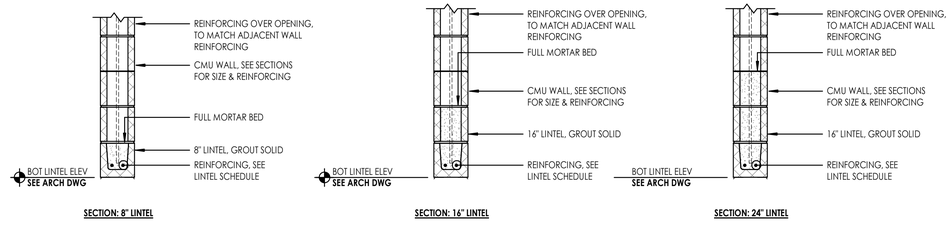
6 MINIMUM LAP AND EMBEDMENT LENGTH SCHEDULE
3/4" = 1'-0"

LOAD BEARING CMU LINTEL SCHEDULE

LINTEL MARK	LINTEL SIZE
ML1	8"x8" W/ (2)#4
ML2	8"x24" W/ (2)#6
ML3	8"x16" W/ (2)#4



PLAN AT JAMB: 8", 16", AND 24" LINTELS



SECTION: 8" LINTEL **SECTION: 16" LINTEL** **SECTION: 24" LINTEL**

3 CMU LINTEL SCHEDULE - LOAD BEARING
3/4" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
305 W. Martin Street, Raleigh, NC 27601

SCALENE DESIGN
PROJECT DESIGN ARCHITECTURE + FORM
421 N HARRINGTON ST. RALEIGH, NC 27603 919.825.0295
FIRM LICENSE #P-1591 CORP LICENSE #C-0624 PROJECT NO. 524-09610

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
THIRD STREET, BAYBORO, NC

BID SET

NORTH CAROLINA PROFESSIONAL SEAL 031551 ENGINEER SARAH M. MUSSER
09/12/2024
THIS DOCUMENT WAS ELECTRONICALLY SIGNED BY SARAH M. MUSSER

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

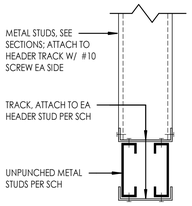
Revisions

#	Description	Date

Date	Project No.
9/12/2024	24017
Drawn By: EOP	Sheet No.: S2.2
Checked By: SMM	

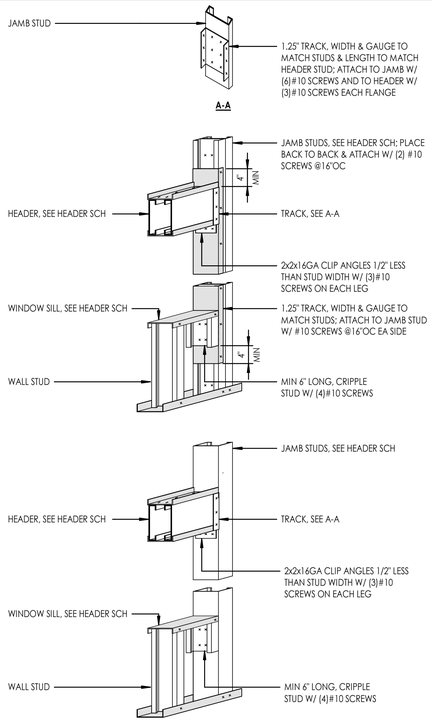
Sheet Title
MASONRY SECTIONS & DETAILS

LOAD BEARING HEADER/SILL SCHEDULE					
MARK	STUD SIZE	TRACK		SILL	JAMB
		SIZE	ATTACHMENT		
H1	(2)600S162-54	600T125-43	#10 SCREWS @16"OC	600T125-43	(2)362S162-54

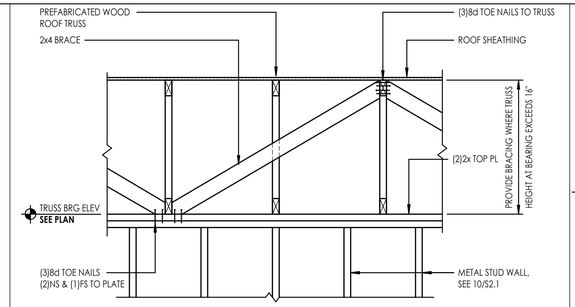


H1

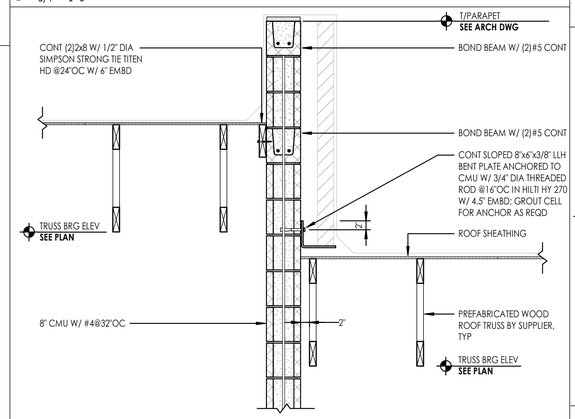
12 LOAD BEARING METAL STUD HEADER SCHEDULE
1 1/2" = 1'-0"



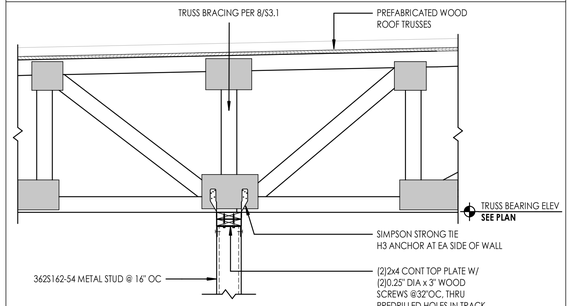
13 LOAD BEARING JAMB
3/4" = 1'-0"



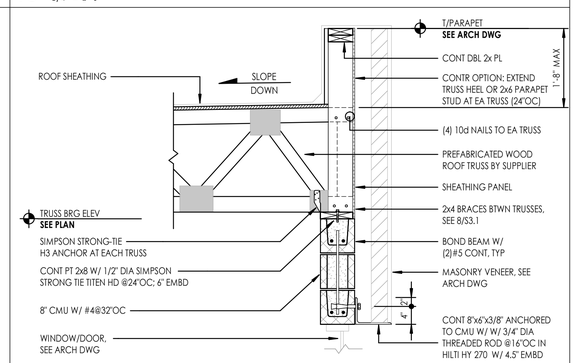
8 BRACING AT ROOF TRUSSES
3/4" = 1'-0"



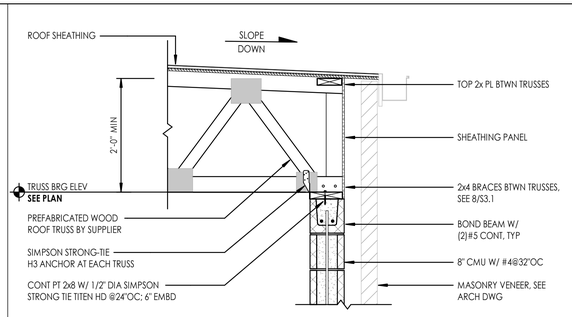
9 SECTION - CHANGE IN ROOF ELEVATION
3/4" = 1'-0"



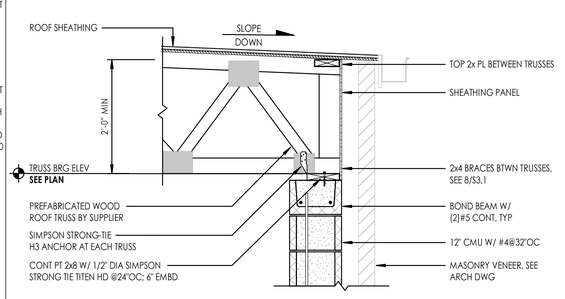
10 ROOF TRUSSES ON BEARING WALL
3/4" = 1'-0"



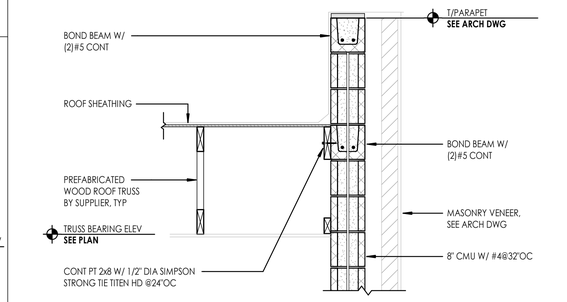
11 WOOD TRUSS BEARING ON CMU WALL
3/4" = 1'-0"



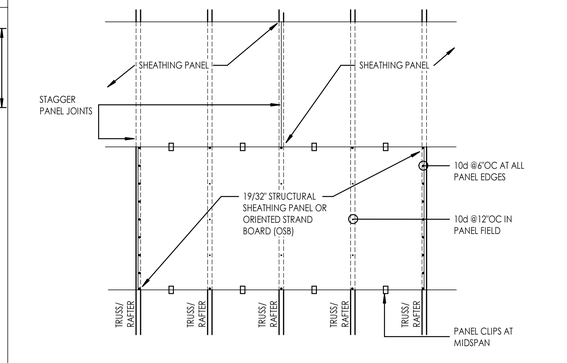
4 CMU WALL SUPPORTING ROOF TRUSSES
3/4" = 1'-0"



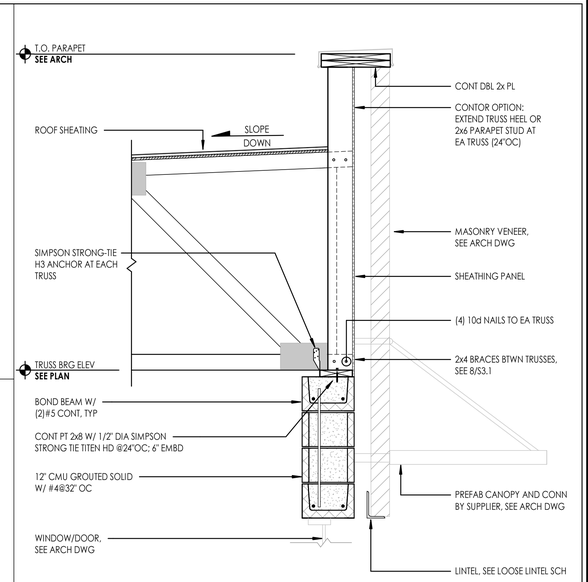
5 CMU WALL SUPPORTING ROOF TRUSSES
3/4" = 1'-0"



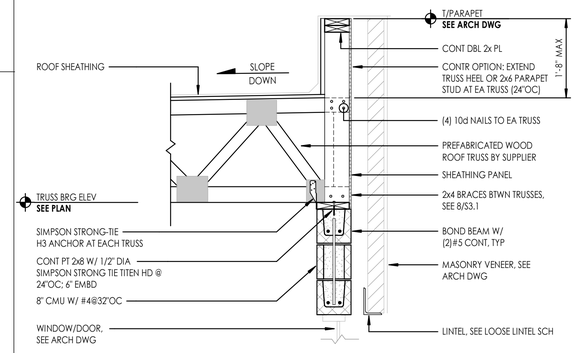
6 CMU SUPPORTING ROOF
3/4" = 1'-0"



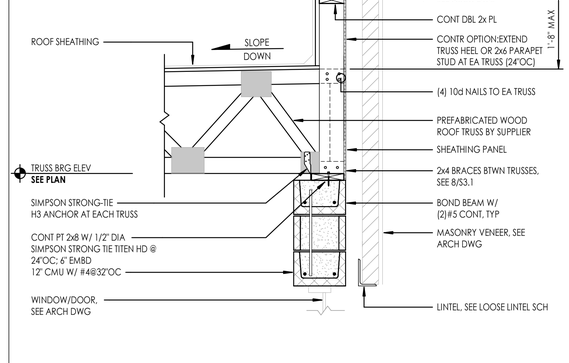
7 ROOF SHEATHING CONSTRUCTION
1/2" = 1'-0"



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



2 WOOD TRUSS BEARING ON CMU WALL
3/4" = 1'-0"



3 WOOD TRUSS BEARING ON CMU WALL
3/4" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
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FIRM LICENSE #P-1391 CORE LICENSE #C-0624 PROJECT NO. 524-09830

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PAMLICO COUNTY
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BID SET

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09/12/2024
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Revisions		
#	Description	Date

Date	Project No.
9/12/2024	24017
Drawn By: EOP	Sheet No.: S3.1
Checked By: SMM	

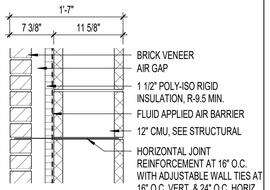
Sheet Title: ROOF FRAMING SECTIONS & DETAILS

WALL LEGEND

SCALE 1" = 1'-0"

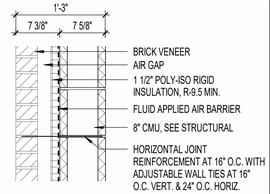
EXTERIOR: BRICK VENEER MASONRY WALL

MARK	PLAN VIEW	REMARKS
1		TOP OF WALL = SEE ELEVATIONS & SECTIONS



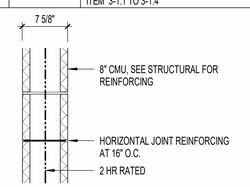
EXTERIOR: BRICK VENEER MASONRY WALL

MARK	PLAN VIEW	REMARKS
2		TOP OF WALL = SEE ELEVATIONS & SECTIONS



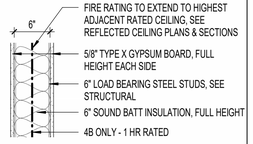
INTERIOR: MASONRY - 1HR RATED

MARK	PLAN VIEW	REMARKS
3		TOP OF WALL = SEE WALL SECTION 2 HOUR RATED NCSBC TABLE 721.1(2) ITEM 3-1.1 TO 3-1.4



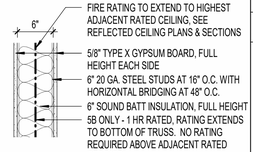
INTERIOR: LOAD BEARING 6" METAL STUD WALL

MARK	PLAN VIEW	REMARKS
4A		TOP OF WALL = TO BOTTOM CHORD OF TRUSS
4B		TOP OF WALL = TO BOTTOM OF TRUSS 1 HOUR RATED PER UL DESIGN NO. U419



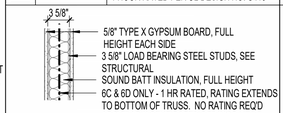
INTERIOR: NON-LOAD BEARING 6" METAL STUD WALL

MARK	PLAN VIEW	REMARKS
5A		TOP OF WALL = TO BOTTOM CHORD OF TRUSS
5B		TOP OF WALL = TIGHT TO BOTTOM OF DECK 1 HOUR RATED PER UL DESIGN NO. U419



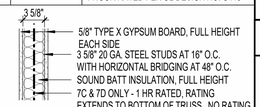
INTERIOR: LOAD BEARING 3 5/8" METAL STUD WALL

MARK	PLAN VIEW	REMARKS
6A		TOP OF WALL = TO BOTTOM OF CHORD OF TRUSS
6B		NOT USED
6C		TOP OF WALL = TO BOTTOM OF TRUSS 1 HOUR RATED PER UL DESIGN NO. U419
6D		TOP OF WALL = TIGHT TO BOTTOM OF DECK 1 HOUR RATED PER UL DESIGN NO. U419



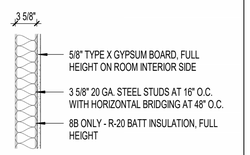
INTERIOR: NON-LOAD BEARING 3 5/8" METAL STUD WALL

MARK	PLAN VIEW	REMARKS
7A		TOP OF WALL = TO BOTTOM OF CHORD OF TRUSS
7B		TOP OF WALL = TIGHT TO BOTTOM OF DECK
7C		TOP OF WALL = TO BOTTOM OF TRUSS 1 HOUR RATED PER UL DESIGN NO. U419
7D		TOP OF WALL = TIGHT TO BOTTOM OF DECK 1 HOUR RATED PER UL DESIGN NO. U419



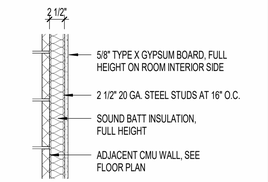
INTERIOR: 3 5/8" CHASE OR FURRED WALL

MARK	PLAN VIEW	REMARKS
8A		TOP OF WALL = TO BOTTOM CHORD OF TRUSS
8B		TOP OF WALL = TIGHT TO UNDERSIDE OF DECK



INTERIOR: 2 1/2" METAL FURRING

MARK	PLAN VIEW	REMARKS
9		TOP OF WALL = TIGHT TO BOTTOM CHORD OF TRUSS



WALL LEGEND GENERAL NOTES:

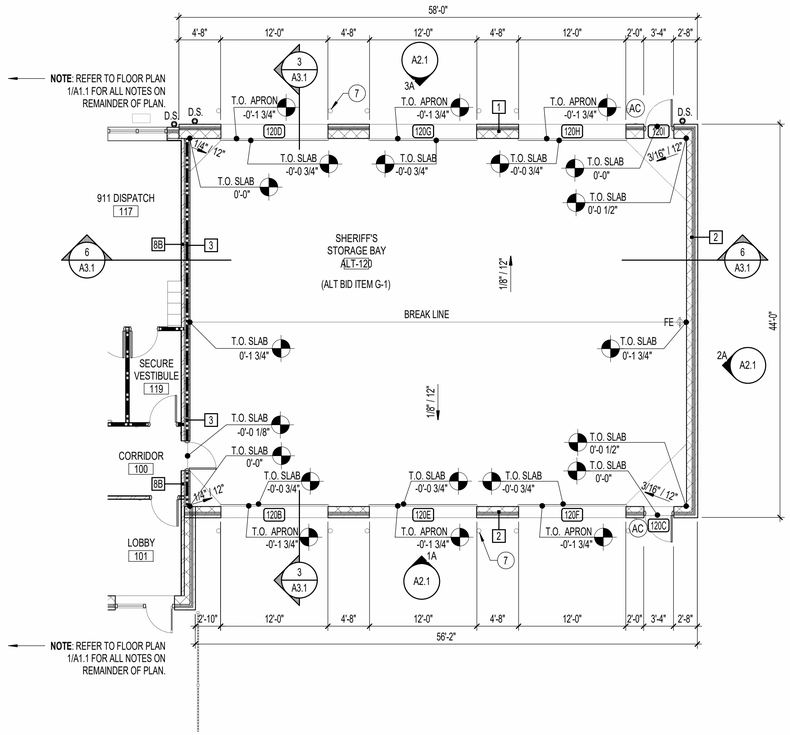
A. AT EXTERIOR WALL TYPES 1 & 2, IN LIEU OF 1 1/2" POLY-ISO RIGID INSULATION & FLUID AIR BARRIER, CONTRACTOR MAY OPT TO PROVIDE CLOSED CELL SPRAY FOAM INSULATION, R-9.5 MIN. AT ANY LOCATION WHERE CLOSE CELL SPRAY FOAM IS LESS THAN 1" IN THICKNESS, SUCH AS AT WOOD BLOCKING, AN AIR BARRIER TAPE SHALL BE PROVIDED AT THE BACK SIDE OF WOOD BLOCKING/FRAMING MEMBER. THE AIR BARRIER TAPE SHALL EXTEND BEYOND EDGES OF FURRING MEMBERS SO THAT THE SPRAY FOAM OVERLAPS THE SHEET MEMBRANE FLASHING.

GENERAL PLAN NOTES

A. DIMENSIONS ON THIS PLAN ARE FROM: FACE OF BRICK TO INTERIOR FACE OF CMU AT EXTERIOR WALLS EXCLUSIVE OF FURRING WHERE OCCURS. INTERIOR WALLS ARE TO THE CENTERLINE OF STUD WALLS, AND TO THE FACE OF CMU.
B. PROVIDE BRACING BACK TO STRUCTURE FOR INTERIOR WALLS, TYPICAL.
C. INSTALL SOUND ATTENUATION BATT INSULATION FULL HEIGHT IN ALL INTERIOR STUD FRAMED WALLS.
D. VERIFY ALL DIMENSIONS AND SIZES PRIOR TO CONSTRUCTION.
E. SCHEDULE AND COORDINATE ALL INSPECTIONS REQUIRED.
F. OBTAIN ALL PERMITS REQUIRED.
G. COORDINATE ALL SCHEDULES WITH THE OWNER PRIOR TO CONSTRUCTION.
H. REFER TO STRUCTURAL PLANS FOR ALL STRUCTURAL HEADERS.
I. SEE DOOR AND WINDOW SCHEDULES FOR ALL DOOR AND WINDOW SIZES.
J. SYMBOL "AC" ON FLOOR PLAN INDICATES ACCESS CONTROL LOCATIONS.

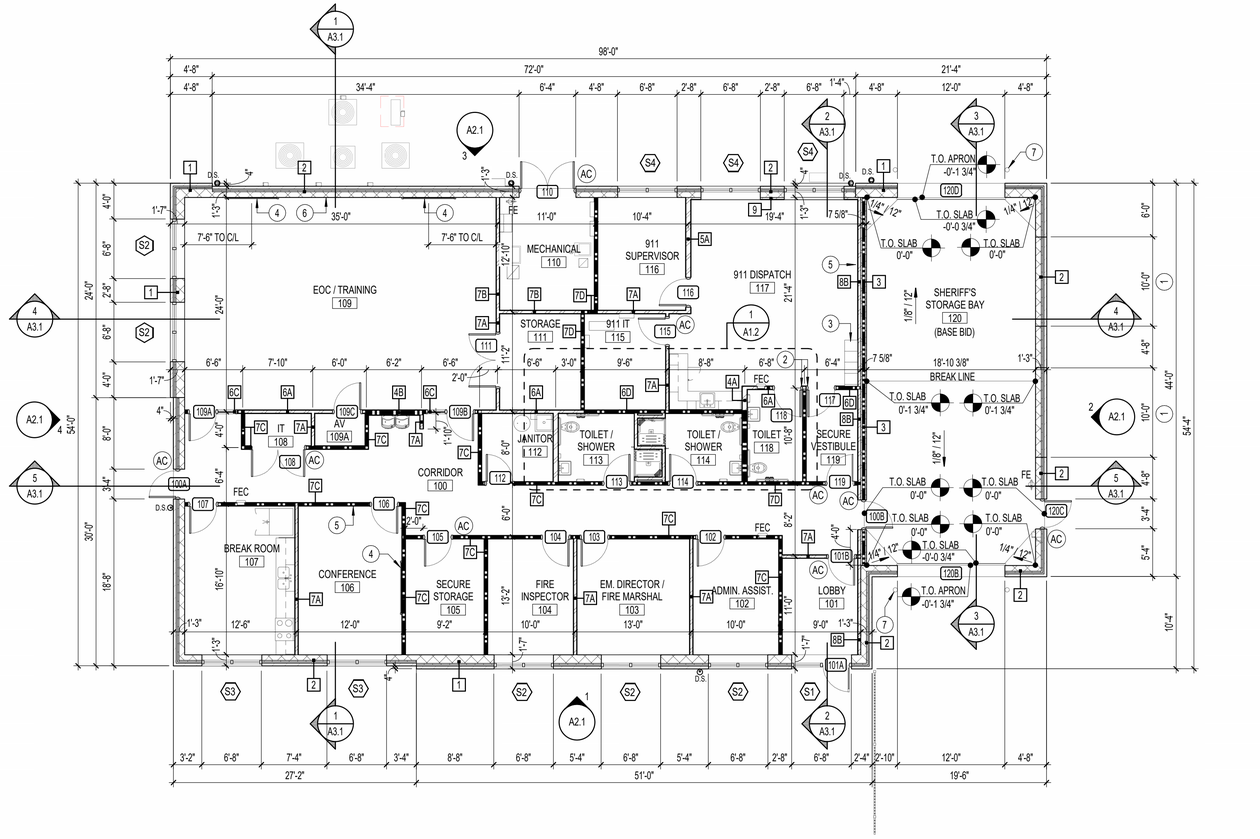
KEYNOTES - FLOOR PLAN (#)

1. PROVIDE LINTEL/HEADER WITHIN WALL AT 10' HIGH FOR KNOCK-OUT PANEL (FOR PASSAGE TO FUTURE ADDITION). SEE EXTERIOR ELEVATIONS, DETAILS 13/A6.2 & 13/A6.2, AND STRUCTURAL.
2. HM FRAME JAMB TIGHT TO ADJACENT WALL.
3. LOCKERS, SEE INTERIOR ELEVATION.
4. WALL-MOUNTED MARKERBOAD, PROVIDE SOLID BLOCKING IN WALL; SEE ELEVATION 9/A1.2. VERIFY LOCATION WITH OWNER PRIOR TO INSTALL.
5. WALL MOUNTED MONITOR, PROVIDE SOLID BLOCKING IN WALL. COORDINATE LOCATION, MOUNTING HEIGHT, AND BLOCKING REQUIREMENTS WITH TELEVISION. TELEVISION WILL BE O.S.C.I. VERIFY LOCATION WITH OWNER PRIOR TO INSTALL.
6. 4 PANEL WALL MOUNTED MONITOR, PROVIDE SOLID BLOCKING IN WALL. COORDINATE LOCATION, MOUNTING HEIGHT, AND BLOCKING REQUIREMENTS WITH TELEVISION. TELEVISION WILL BE O.S.C.I. VERIFY LOCATION WITH OWNER PRIOR TO INSTALL.
7. BOLLARD PER DETAIL 2/A5.1, TYPICAL.



ALT BID G-1 - FLOOR PLAN

1/8" = 1'-0"



BASE BID - FLOOR PLAN

1/8" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2300
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A. — REGISTERED ARCHITECTURAL CORPORATION — CERT NO. 50681 — NORTH CAROLINA — ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY — REGISTERED ARCHITECT — NORTH CAROLINA — ROCKY MOUNT, N.C. — 09.12.24

BID SET

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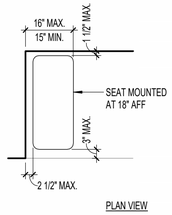
Revisions #	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A1.1
Checked By: DG	

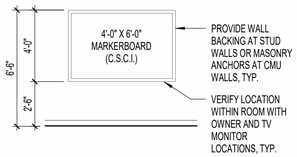
Sheet Title: FIRST FLOOR PLAN



PLAN VIEW

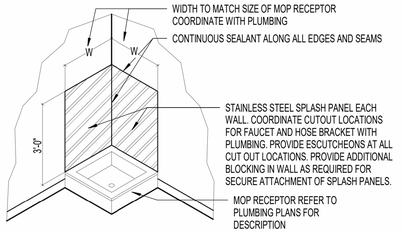
10 A1.2 SHOWER SEAT

1/2" = 1'-0"



9 A1.2 TYP. MARKERBOARD

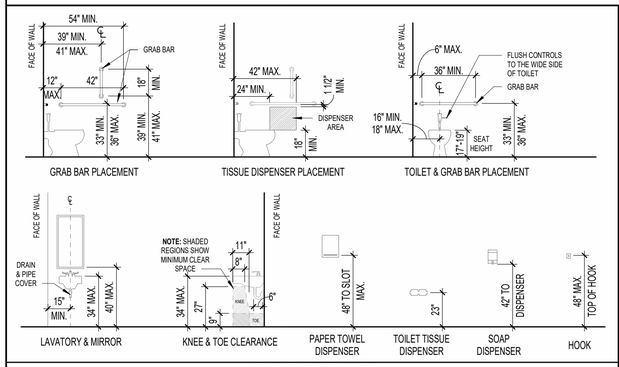
1/4" = 1'-0"



8 A1.2 SPLASH PANELS AT MOP RECEPTOR

3/8" = 1'-0"

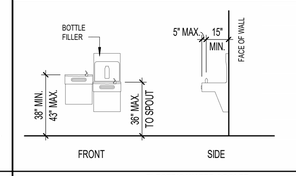
HC ACCESSORIES MOUNTING HEIGHT LEGEND



TYPICAL TOILET ACCESSORIES

A. DIMENSIONS ARE TYPICAL FOR HANDICAP ACCESSORY INSTALLATIONS. EQUIPMENT AND FIXTURE ORIENTATION MAY VARY; SEE PLAN FOR ACTUAL LAYOUT AND SEE SCHEDULE & SPECS FOR FIXTURE INFORMATION.
B. PROVIDE ALL NECESSARY BLOCKING AND ANCHORS AS REQUIRED FOR PROPER INSTALLATION AND OPERATION OF ALL TOILET FIXTURES AND RELATED ACCESSORIES.
C. SEE PLUMBING SCHEDULE AND DETAILS FOR ALL FIXTURES AND MOUNTING HEIGHTS.
D. SEE FLOOR PLAN AND FINISH SCHEDULE FOR WALL FINISHES. COORDINATE INSTALLATION OF ALL ITEMS WITH SPECIFIC WALL TYPES AND FINISHES.
E. ALL TOILET ACCESSORIES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC APPLICATIONS IN COMPLIANCE WITH ALL APPLICABLE CODES.
F. INSTALL ALL TOILET ACCESSORIES IN COMPLIANCE WITH NC BUILDING CODE CHAPTER 11 & ANSI A117.1 AS REQUIRED.

NOTES



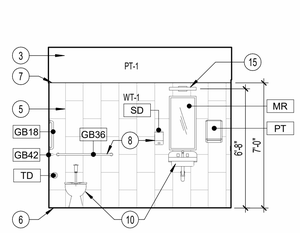
ELECTRIC WATER COOLER

TOILET ACCESSORIES SCHEDULE

MARK	DESCRIPTION	MOUNTING HT.
CR	CURTAIN ROD, FLANGES, & CURTAIN W/ HOOKS	74 1/2" TO C.L. ABOVE SHOWER FLOOR
GB18	1 1/2" DIA. X 18" S.S. (VERTICAL) GRAB BAR - PEENED	39" TO BOTTOM
GB36	1 1/2" DIA. X 36" S.S. GRAB BAR - PEENED	34" C.L.
GB42	1 1/2" DIA. X 42" S.S. GRAB BAR - PEENED	34" C.L.
GBC	1 1/2" DIA. X 18" X 33" S.S. (CORNER) GRAB BAR - PEENED	34" C.L.
MR	S.S. FRAMED MIRROR, 18" x 36"	40" TO BOTTOM OF GLASS
MS	MOP AND BROOM RACK WITH SHELF-3 HOLDERS	72" TO TOP OF SHELF
PT	S.S. SURFACE MOUNTED PAPER TOWEL DISPENSER	48" TO SLOT
SB	S.S. SOAP BASKET - SURFACE CORNER MOUNT	48" TO TOP
SD	S.S. SURFACE MOUNTED LIQUID SOAP DISPENSER	42" TO DISPENSER
SS	FOLDING SHOWER SEAT, 33" W	18" TO TOP OF SEAT
TD	S.S. DOUBLE ROLL TISSUE DISPENSER	23" C.L.
TH	S.S. SURFACE MOUNTED TOWEL HOOK	48" TO TOP

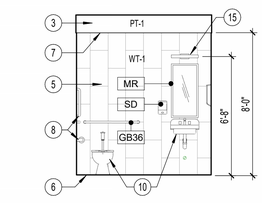
KEYNOTES - ENLARGED PLAN ELEVATIONS

1. TOILET ELEVATIONS FOR THIS ROOM ARE SIMILAR TO ROOM 114.
2. DOOR AND FRAME PER DOOR SCHEDULE.
3. PAINTED GYPSUM BOARD, TYPICAL.
4. WALL TILE PER FINISH SCHEDULE.
5. WALL FIELD TILE INSTALLED IN VERTICAL DIRECTION. ALIGN GROUT LINES WITH FLOOR TILE GROUT LINES.
6. METAL COVE TRIM PER DETAIL 7/A1.3 AT FLOOR TO WALL TRANSITION.
7. FINISH EDGE OF WALL TILE WITH METAL TRIM.
8. SEE TOILET ACCESSORIES SCHEDULE AND HC ACCESSORIES MOUNTING HEIGHT LEGEND THIS SHEET FOR MOUNTING HEIGHTS, TYPICAL.
9. SHOWER SEAT, SEE DETAIL FOR ADA DIMENSIONS
10. PLUMBING FIXTURE PER PLUMBING PLANS, SEE HC ACCESSORIES MOUNTING HEIGHT LEGEND THIS SHEET FOR CLEARANCES AND MOUNTING HEIGHTS, TYPICAL.
11. MOP SINK, SEE PLUMBING DRAWINGS. SEE DETAIL 8/A1.2 FOR SPLASH PANELS
12. PRE-MANUFACTURED SHOWER PAN, ADA COMPLIANT, 1/2" MAX THRESHOLD
13. CONTROL VALVE LOCATION, SEE PLUMBING
14. HAND HELD SHOWER SPRAYER, 60" MIN. LENGTH.
15. LIGHTING FIXTURE PER ELECTRICAL DRAWINGS.
16. EPOXY PAINT AT SHOWER CEILING.



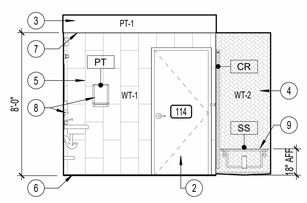
7 A1.2 118 - TOILET - S

1/4" = 1'-0"



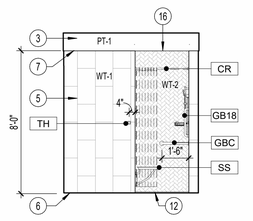
6 A1.2 114 - TLT/SHOWER - N

1/4" = 1'-0"



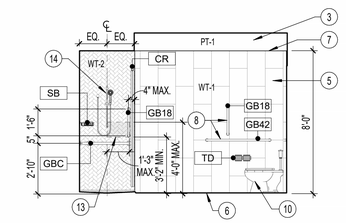
5 A1.2 114 - TLT/SHOWER - E

1/4" = 1'-0"



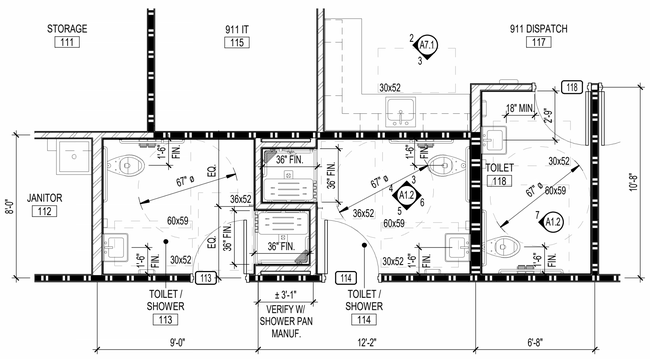
4 A1.2 114 - TLT/SHOWER - S

1/4" = 1'-0"



3 A1.2 114 - TLT/SHOWER - W

1/4" = 1'-0"

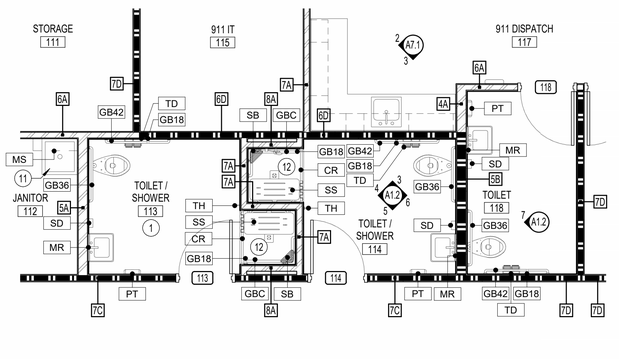


N

2 A1.2 ENLARGED FLOOR PLAN - DIMENSIONS - RESTROOMS

1/4" = 1'-0"

4' 2' 0' 2' 4' 8'



N

1 A1.2 ENLARGED FLOOR PLAN - NOTES - RESTROOMS

1/4" = 1'-0"

4' 2' 0' 2' 4' 8'

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION NORTH CAROLINA CERT. NO. 50681 ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, NC 09.12.24

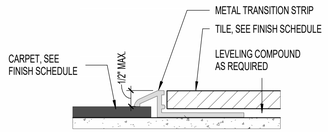
BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

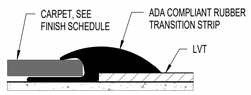
Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A1.2
Checked By: DG	

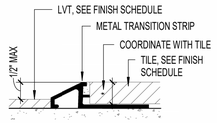
Sheet Title: ENLARGED PLANS & ELEVATIONS



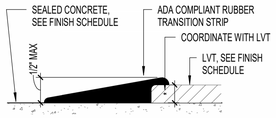
15 A1.3 CARPET/TILE TRANSITION
12" = 1'-0"



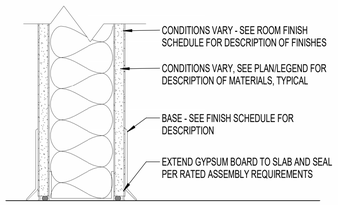
14 A1.3 CARPET / LVT TRANSITION
12" = 1'-0"



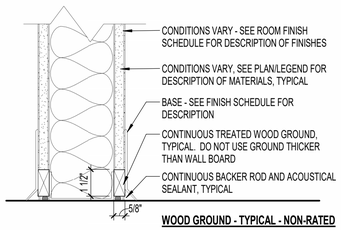
13 A1.3 LVT / TILE TRANSITION
12" = 1'-0"



12 A1.3 LVT / CONC. TRANSITION
12" = 1'-0"

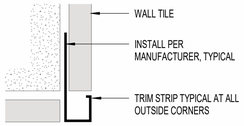


FINISH TERMINATION - RATED WALL



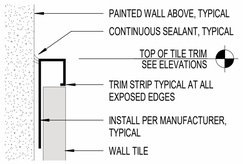
WOOD GROUND - TYPICAL - NON-RATED

11 A1.3 BASE CONDITIONS
3" = 1'-0"



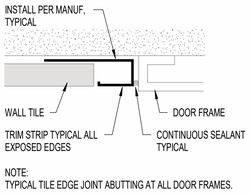
NOTE:
TYPICAL TILE OUTSIDE CORNER JOINT AT ALL LOCATIONS.

10 A1.3 TILE-OUTSIDE CORNER
12" = 1'-0"



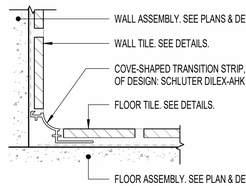
NOTE:
TYPICAL TILE EXPOSED EDGE JOINT AT ALL TILE LOCATIONS.

9 A1.3 TILE - EDGE TRIM
12" = 1'-0"

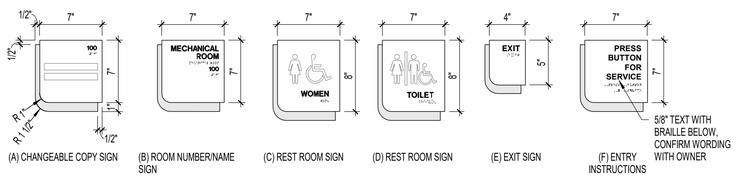


NOTE:
TYPICAL TILE EDGE JOINT ABUTTING AT ALL DOOR FRAMES.

8 A1.3 TILE - TRIM AT DOOR
12" = 1'-0"



7 A1.3 TILE - FLOOR/WALL COVE
6" = 1'-0"



(A) CHANGEABLE COPY SIGN | (B) ROOM NUMBER/NAME SIGN | (C) REST ROOM SIGN | (D) REST ROOM SIGN | (E) EXIT SIGN | (F) ENTRY INSTRUCTIONS

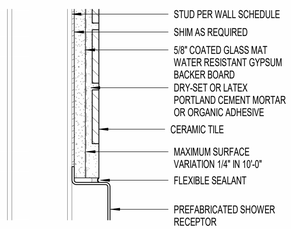
2 A1.3 INTERIOR SIGNAGE
1 1/2" = 1'-0"

TILE INSTALLATION

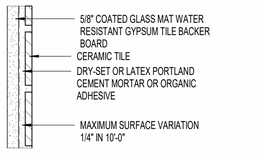
LOCATION		METHOD	DETAIL
FLOOR	TOILETS	F113	3 / A1.3
WALL	TOILETS	W245	4 / A1.3
	SHOWERS	B419	5 / A1.3
CEILING - SHOWERS			

1. REFER TO TILE COUNCIL OF AMERICA'S CURRENT "HANDBOOK FOR CERAMIC TILE INSTALLATION" FOR DESCRIPTION OF INSTALLATION METHODS.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

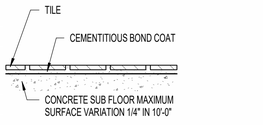
6 A1.3 NOT USED
3" = 1'-0"



5 A1.3 TCA B419
3" = 1'-0"



4 A1.3 TCA W245
3" = 1'-0"



3 A1.3 TCA F113
3" = 1'-0"

INTERIOR SIGNAGE NOTES:
1. ALL ROOMS AND ENTRANCES TO A ROOM UNLESS NOTED OTHERWISE SHALL HAVE ONE SIGN.
2. SIGN TYPES INDICATED BY LETTER DESIGNATION, AS INDICATED, AND KEYED TO ROOM FINISH SCHEDULE.
3. ALL TOILETS SHALL HAVE A RESTROOM SIGN.
4. COORDINATE ROOM DESIGNATIONS AND NUMBERS WITH OWNER PRIOR TO ORDERING.
5. ALL SIGNAGE SHALL COMPLY WITH ALL APPLICABLE CODES.
6. CHANGEABLE COPY SIGNS SHALL HAVE TWO (2) LINES WITH NON-GLARE ACRYLIC FACES FOR OWNER INSERTS.
7. ALL COMPONENTS COLORS SHALL BE AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
8. ALL SIGNS SHALL BE LOCATED ON STRIKE SIDE OF DOOR AND SHALL BE 48 INCHES MINIMUM AND 60 INCHES MAXIMUM FROM FINISH FLOOR TO BASELINE OF ALL BRAILLE CELLS. A CLEAR SPACE OF 18X18 INCHES SHALL BE LOCATED IN FRONT OF THE SIGN, CENTERED ON THE RAISED TEXT.

FINISH LEGEND

ROOM NAME
ROOM NUMBER
WEST / SOUTH / NORTH / EAST
WALL FINISHES (LOCATION BASED ON PROJECT NORTH)

NOTES:
1. PATTERNS THIS LEGEND APPLY TO FLOOR FINISH PLAN ONLY.
2. SEE FINISH SCHEDULE, INTERIOR ELEVATIONS, AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

FLOOR FINISH

- CPT-1: CARPET TILE
- CPT-3: WALK-OFF CARPET TILE
- FT-1: FLOOR TILE 1, 12X24
- LVT-1: LUXURY VINYL TILE 1
- SC: SEALED CONCRETE

WALL FINISH

PNT-1	INTERIOR FIELD PAINT 1
PNT-1E	INTERIOR EPOXY FIELD PAINT 1
PNT-2	INTERIOR ACCENT PAINT
PNT-3	INTERIOR ACCENT PAINT
WT-1	WALL TILE 1, 12X24 FIELD TILE
WT-2	WALL TILE 2, ACCENT TILE (SHOWER)
WT-3	WALL TILE 3, SUBWAY TILE

WALL BASE

RB-1	RUBBER BASE, 4" H.
RB-2	RUBBER BASE, 6" H.
TB-1	TILE BASE, METAL COVE TRIM

CEILING FINISH

ACT-1	ACOUSTICAL CEILING TILE
ACT-2	ACOUSTICAL CLG. TILE - VINYL COATED
EXP	EXPOSED STRUCTURE PAINTED
GYP	GYPSUM BOARD PAINTED

SURFACE FINISH

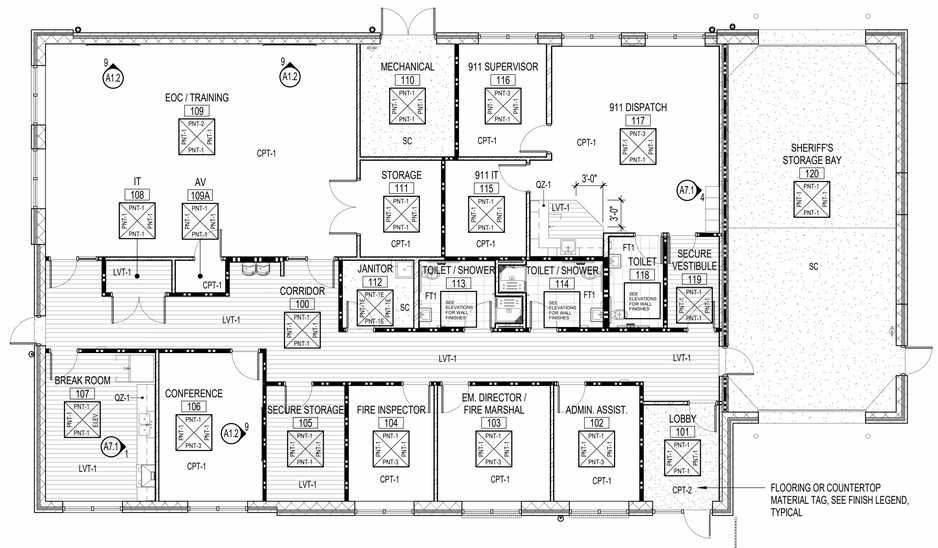
PL-1	PLASTIC LAMINATE 1 (TYP. CASEWORK)
QZ-1	QUARTZ
AC-1	ACRYLIC SOLID SURFACE
SS-1	STAINLESS STEEL

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR	BASE	WALL FINISH NORTH	WALL FINISH EAST	WALL FINISH SOUTH	WALL FINISH WEST	CEILING	SIGNAGE	NOTES	ROOM NO.
100	CORRIDOR	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1 / GYP	F, E(2)	ALL WALLS PNT-1.	100
101	LOBBY	CPT-2	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	E		101
102	ADMIN. ASSIST.	CPT-1	RB-1	PNT-1	PNT-3	PNT-1	PNT-1	ACT-1	A		102
103	EM. DIRECTOR / FIRE MARSHAL	CPT-1	RB-1	PNT-1	PNT-3	PNT-1	PNT-1	ACT-1	A		103
104	FIRE INSPECTOR	CPT-1	RB-1	PNT-1	PNT-3	PNT-1	PNT-1	ACT-1	A		104
105	SECURE STORAGE	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	GYP	B		105
106	CONFERENCE	CPT-1	RB-1	PNT-1	PNT-3	PNT-1	PNT-1	ACT-1	B		106
107	BREAK ROOM	LVT-1	RB-1	ELEV.	PNT-1	PNT-1	PNT-1	ACT-1	B		107
108	IT	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	B		108
109	EOC / TRAINING	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-2	ACT-1	B (2)		109
109A	AV	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	B		109A
110	MECHANICAL	SC	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	EXP	-		110
111	STORAGE	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	B		111
112	JANITOR	SC	RB-1	PNT-1E	PNT-1E	PNT-1E	PNT-1E	ACT-1	B		112
113	TOILET / SHOWER	FT-1	TB-1	SEE ELEV.	SEE ELEV.	SEE ELEV.	SEE ELEV.	ACT-2 / GYP.	C	WT-2 AT SHOWER WALLS & EPOXY PAINT AT SHOWER CEILING	113
114	TOILET / SHOWER	FT-1	TB-1	SEE ELEV.	SEE ELEV.	SEE ELEV.	SEE ELEV.	ACT-2 / GYP.	C	WT-2 AT SHOWER WALLS & EPOXY PAINT AT SHOWER CEILING	114
115	911 IT	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	B		115
116	911 SUPERVISOR	CPT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-3	ACT-1	A		116
117	911 DISPATCH	CPT-1 / LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-3	ACT-1	B		117
118	TOILET	FT-1	TB-1	SEE ELEV.	SEE ELEV.	SEE ELEV.	SEE ELEV.	ACT-1	D		118
119	SECURE VESTIBULE	LVT-1	RB-1	PNT-1	PNT-1	PNT-1	PNT-1	ACT-1	B		119
120	SHERIFF'S STORAGE BAY	SC	RB-2	PNT-1	PNT-1	PNT-1	PNT-1	EXP	B		120

FINISH PLAN NOTES

A. VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO INSTALLATION OF FINISHES.
B. SEE INTERIOR ELEVATIONS FOR FULL EXTENT OF WALL FINISHES AS KEYED IN PLANS.
C. FURNISH AND INSTALL TRANSITION STRIPS AT ALL FLOOR MATERIAL CHANGES. SEE TRANSITION DETAILS FOR MORE INFORMATION.
D. HEIGHT AND PROFILE OF ALL TRANSITION STRIPS SHALL BE ADA COMPLIANT.
E. COLOR FOR ALL TRANSITION STRIPS SHALL BE AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
F. COORDINATE LOCATION OF ALL TRANSITION STRIPS, LOCATE TRANSITION STRIPS UNDER DOOR SLABS.
G. COORDINATE SIZE OF ALL TRANSITION STRIPS WITH FINISH MATERIALS.
H. ALL HM DOORS AND DOOR FRAMES TO RECEIVE PAINT, COLOR PER ARCHITECT.
I. ALL WINDOWS WITH SILLS BELOW 6' HIGH TO RECIEVE A SOLID SURFACE WINDOW SILL, COLOR PER ARCHITECT.
J. SUBSTITUTE GYPSUM BOARD WITH SAME THICKNESS TILE BACKER BOARD AT ALL WALL TILE LOCATIONS.
K. IN ROOMS WITHOUT A FINISHED CEILING, PAINT EXPOSED STRUCTURE ABOVE.



N

1 A1.3 FINISH PLAN
1/8" = 1'-0"

8' 4' 0' 4' 8' 16'

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NEW CONSTRUCTION FOR:
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PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT 23801 NORTH CAROLINA ROCKY MOUNT, N.C. 09.12.24

BID SET

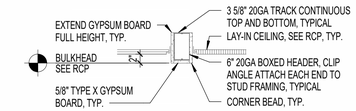
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

#	Description	Date

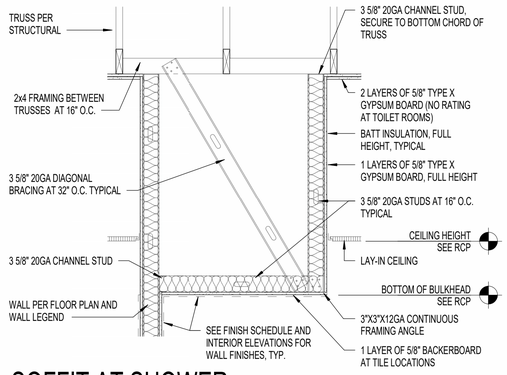
Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A1.3
Checked By: DG	

Sheet Title: FINISH FLOOR PLAN



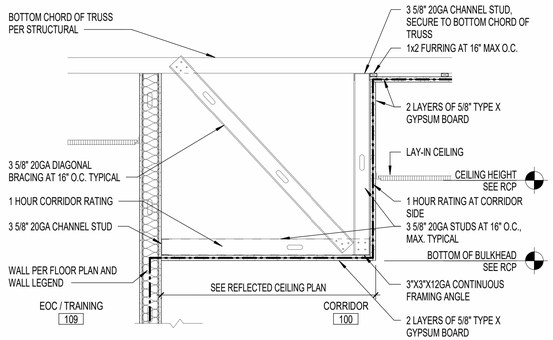
6 A1.4 BULKHEAD-ACROSS CORRIDOR

3/4" = 1'-0"



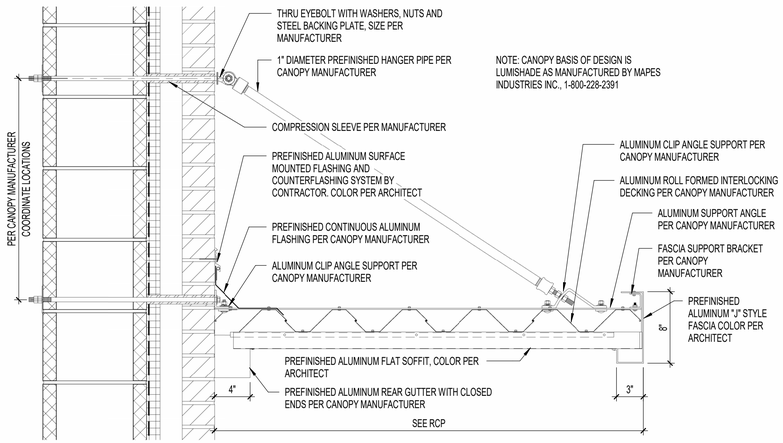
5 A1.4 SOFFIT AT SHOWER

3/4" = 1'-0"



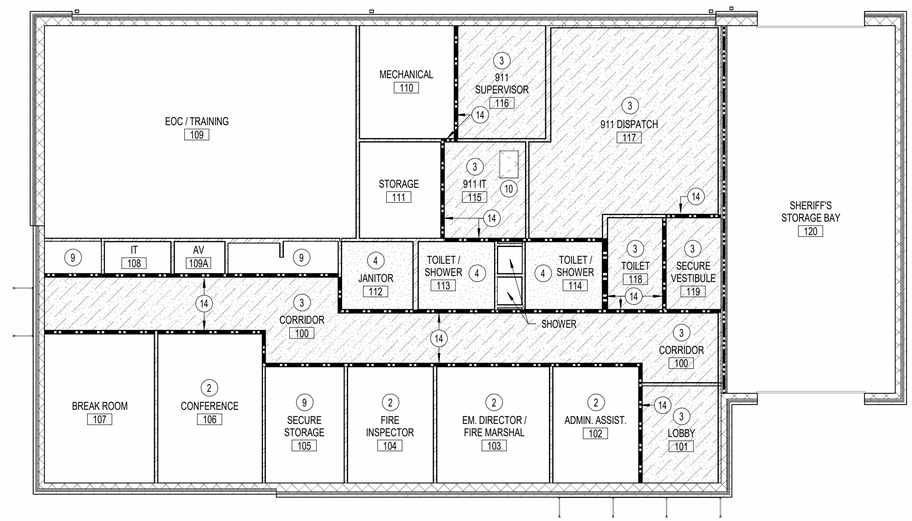
4 A1.4 SOFFIT AT RATED CORRIDOR

3/4" = 1'-0"



3 A1.4 WALL HUNG CANOPY DETAIL

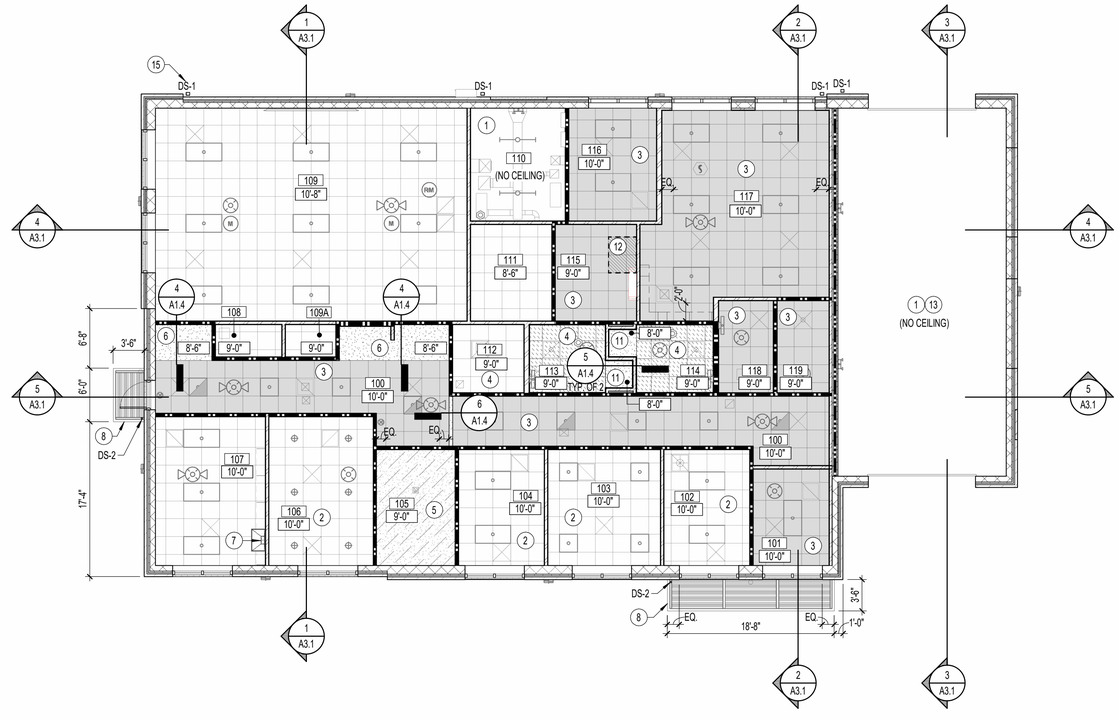
1 1/2" = 1'-0"



2 A1.4 REFLECTED CEILING PLAN - ABOVE GRID CEILINGS

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'



1 A1.4 REFLECTED CEILING PLAN

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'

RCP LEGEND

- 2X2 LAY-IN CEILING SYSTEM
- 2X2 LAY-IN CEILING SYSTEM AT HEIGHT INDICATED WITH 2 LAYERS OF 5/8" TYPE 'X' GYPSUM BOARD AT UNDERSIDE OF ROOF TRUSSES ABOVE FOR A 1 HR RATING
- 2X2 LAY-IN CEILING SYSTEM (VINYL COATED) AT HEIGHT INDICATED WITH 1 LAYER OF 5/8" GYPSUM BOARD AT UNDERSIDE OF TRUSSES ABOVE
- 5/8" GYPSUM BOARD
- RATED GYPSUM BOARD CEILING. SEE RCP PLANS AND NOTES FOR DESIGN.
- EXPOSED STRUCTURE, PAINT ALL SURFACES
- X'-X" CEILING HEIGHT KEY
- 2 X 4 LAY-IN FIXTURE
- 2 X 2 LAY-IN FIXTURE
- LED HIGH BAY FIXTURE
- LINEAR PENDANT/SURFACE MOUNT FIXTURE
- CAN LIGHT FIXTURE
- EXTERIOR WALL LIGHT FIXTURE
- EMERGENCY WITH EXIT LIGHT
- EXIT LIGHT
- BATTERY BACKUP EMERGENCY LIGHT
- SMOKE DETECTOR
- FIRE ALARM CEILING STROBE
- FIRE ALARM CEILING STROBE/HORN
- OCCUPANCY SENSOR
- SUPPLY DIFFUSER
- RETURN GRILLE
- EXHAUST GRILLE

CEILING NOTES

A. SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION PLANS FOR FULL DESCRIPTION OF CEILING MOUNTED ITEMS/DEVICES
B. ALL GRIDS ARE CENTERED IN A ROOM UNLESS NOTED OTHERWISE.
C. REFER TO REFLECTED CEILING PLANS FOR CEILING HEIGHTS AND FINISH PLANS FOR CEILING TYPES.
D. CONTRACTOR TO REVIEW LAYOUT AND NOTIFY ARCHITECT OF ACOUSTICAL CEILING PANELS THAT ARE LESS THAN 3" IN WIDTH OR LENGTH.
E. ALL NEW LIGHT FIXTURES, EXIT SIGNS, SPRINKLER HEADS AND TERMINAL DEVICES TO BE CENTERED IN CEILING PANELS, UNLESS OTHERWISE INDICATED.
F. NOT ALL MEP DEVICES ARE SHOWN IN CEILING PLANS, SEE MEP DRAWINGS FOR LOCATIONS AND QUANTITIES.
G. FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES REFER TO ELEVATIONS.

KEYNOTES - RCP (#)

1. NO CEILING, PAINT EXPOSED STRUCTURE ABOVE.
2. ACCOUSTIC INSULATION ABOVE ENTIRE CEILING THIS ROOM.
3. ABOVE LAY-IN CEILNG PROVIDE 2 LAYERS OF GYPSUM BOARD OVER 1X2 FURRING AT 16" O.C. MAX AT UNDERSIDE OF TRUSSES FOR A 1 HOUR RATING AT ROOM SIDE PER NCSBC TABLE 722.6.2(1).
4. ABOVE LAY-IN CEILNG PROVIDE 1 LAYER OF GYPSUM BOARD AT UNDERSIDE OF TRUSSES (FOR ACOUSTIC PURPOSES).
5. 1 HOUR RATED CEILING PER UL DESIGN I507, 3 LAYERS 5/8" TYPE 'X' GYPSUM BOARD OVER 6" MIN. STEEL STUD CEILING FRAMING, SUPPORT AT MID-SPAN.
6. 2 LAYERS OF GYPSUM BOARD AT UNDERSIDE OF 3 5/8" METAL CEILING JOISTS AT 16" O.C. MAX FOR A 1 HOUR RATING AT CORRIDOR SIDE PER NCSBC TABLE 722.6.2(1).
7. PROVIDE STAINLESS STEEL EXHAUST DUCT SURROUND FROM EXHAUST HOOD TO ABOVE CEILING.
8. ARCHITECTURAL CANOPY PER DETAIL 3/A1.4.
9. RATED CEILING BELOW, SEE REFLECTED CEILING PLAN.
10. 24" X 36" 1 HOUR FIRE RATE ATTIC ACCESS HATCH. SEE SPECS. COORDINATE LOCATION WITH TRUSS SPACING.
11. EPOXY PAINT AT SHOWER CEILINGS, SEE FINISH PLAN.
12. PORTION OF CEILING GRID TO BE REMOVABLE TO GAIN ACCESS TO HATCH ABOVE. COORDINATE FINAL LOCATION WITH ATTIC ACCESS HATCH, MECHANICAL DUCTS, AND TRUSS SPACING ABOVE.
13. ALTERNATE G-1 CEILING SIMILAR, SEE ALT-BID FLOOR PLAN FOR DIMENSIONS, SEE ALSO PME PLANS FOR CEILING MOUNTED ITEMS.
14. WALLS RATED TO GYPSUM BOARD AT UNDERSIDE OF TRUSSES.
15. DOWNSPOUT, SEE DETAIL 2/A1.5, TYPICAL.

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PAMLICO COUNTY
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OAKLEY COLLIER ARCHITECTS, P.A. — REGISTERED ARCHITECTURAL CORPORATION — CERT. NO. 50681 — NORTH CAROLINA — ROCKY MOUNT, NC
BID SET

TIMOTHY D. OAKLEY — NORTH CAROLINA — ROCKY MOUNT, NC — 09.12.24
BID SET

GENERAL NOTE:
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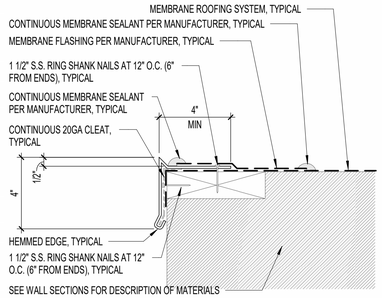
Revisions		
#	Description	Date

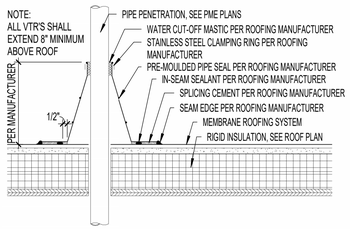
Date 09.12.24	Project No. 24017
Drawn By JS/AR	Sheet No. A1.4
Checked By DG	

Sheet Title: REFLECTED CEILING PLAN



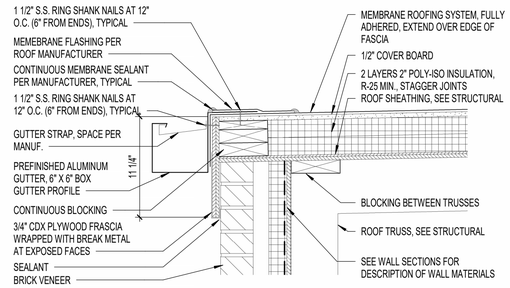
7 A1.5 TYPICAL FASCIA PROFILE

3" = 1'-0"



5 A1.5 PIPE PENETRATION

1 1/2" = 1'-0"



3 A1.5 GUTTER DETAIL

1 1/2" = 1'-0"

ROOF LEGEND

INDICATES DIRECTION OF ROOF SLOPE ACHIEVED THRU STRUCTURE

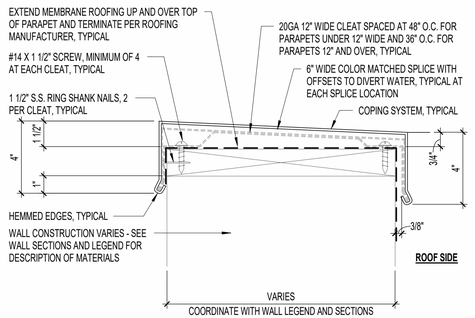
D.S. DOWNSPOUT, TIE INTO STORM SYSTEM, COORDINATE WITH CIVIL, SEE DETAIL 2 / A1.5

GENERAL ROOF NOTES

A. GUTTER AND DOWNSPOUTS SHALL BE FURNISHED AND INSTALLED BY ROOFING CONTRACTOR.
B. CONTRACTOR SHALL COORDINATE ALL ROOF MOUNTED EQUIPMENT AND PENETRATIONS REQUIRED AND MAKE ALL NECESSARY PROVISIONS FOR SAME.
C. GUTTERS, DOWNSPOUTS AND COMPONENTS SHALL BE PREFINISHED ALUMINUM COLOR - PER ARCHITECT.
D. ALL DOWNSPOUTS SHALL TURN INTO STORM DRAIN. REFER TO FLOOR PLAN MORE INFORMATION.
E. ALL ROOF MOUNTED ITEMS SHALL BE PAINTED, CLEAN PREPARE AND PRIME SURFACES AS REQUIRED - COLOR PER ARCHITECT.

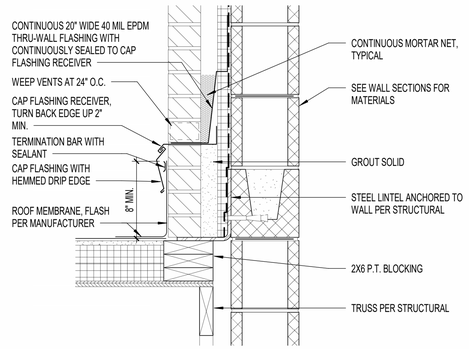
KEYNOTES - ROOF (#)

1. ADHERED ROOF MEMBRANE PER SPECIFICATIONS, TYP.
2. CRICKET.
3. WALL HUNG CANOPY BELOW, SEE RCP AND DETAIL 3/A1.4.
4. COPING CAP PER DETAIL 6/A5.1.
5. FASCIA PER DETAIL 7/A5.1
6. ROOF EDGE AND GUTTER, SEE DETAIL 3/A1.5, TYP.
7. VENT THRU ROOF, SEE PLUMBING, TYP.
8. ROOF TO WALL TRNSITION PER DETAIL 4/A5.1.



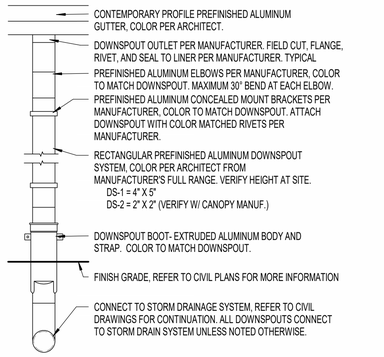
6 A1.5 TYPICAL COPING PROFILE

3" = 1'-0"



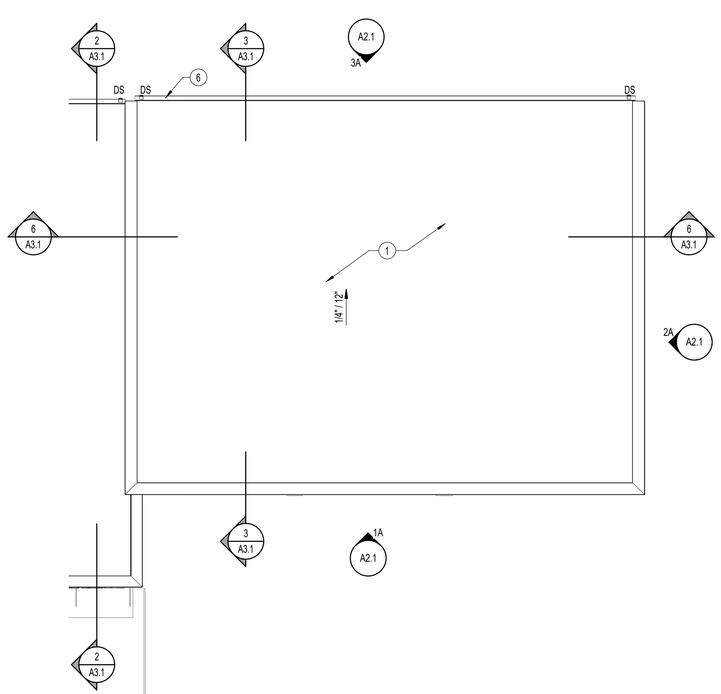
4 A1.5 ROOF TO WALL TRANSITION

1 1/2" = 1'-0"



2 A1.5 DOWNSPOUT - TYP.

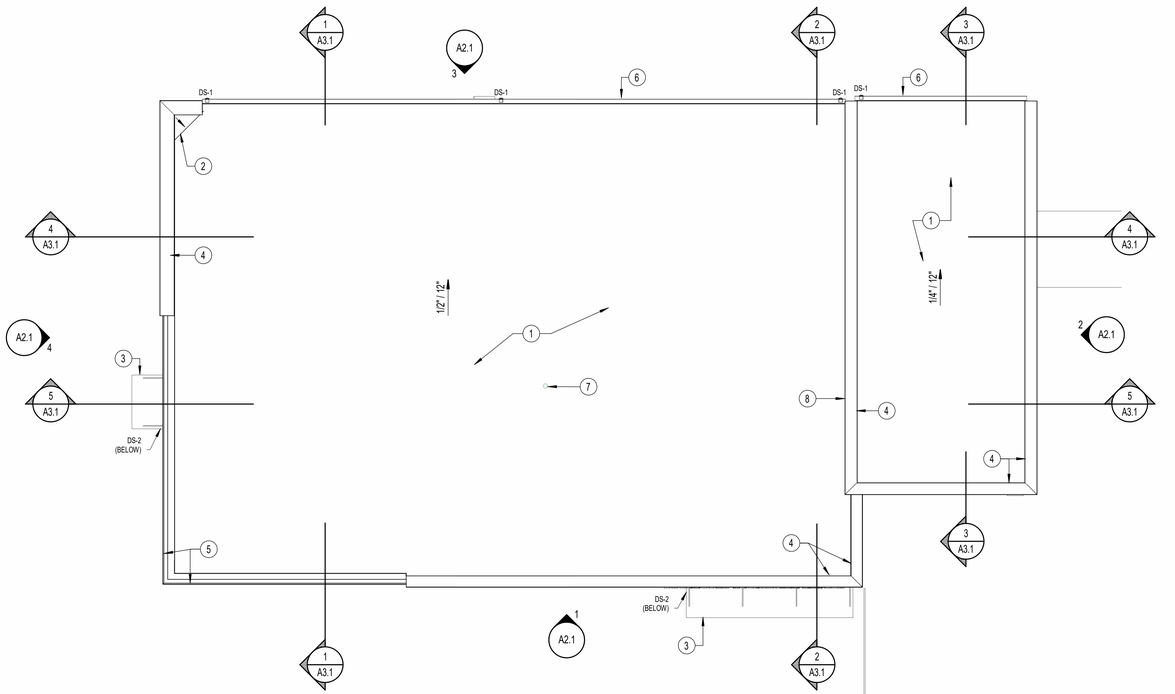
3/4" = 1'-0"



N 1A A1.5 ALT BID G-1 - ROOF PLAN

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'



N 1 A1.5 ROOF PLAN

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'

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OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, N.C. 09.12.24

BID SET

GENERAL NOTE:
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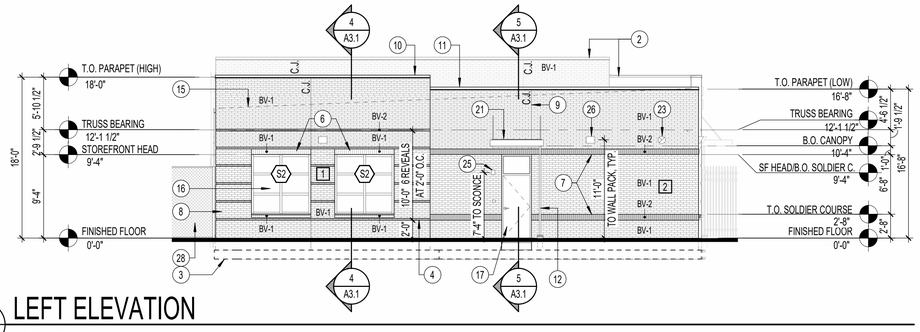
Revisions		
#	Description	Date

Date: 09.12.24	Project No.: 24017
Drawn By: JS/AR	Sheet No.: A1.5
Checked By: DG	

Sheet Title: ROOF PLAN

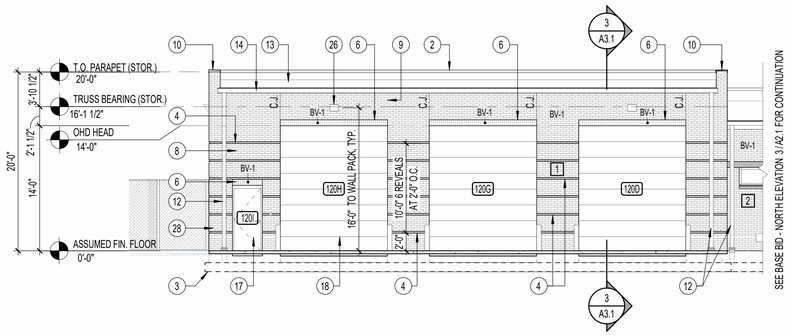


4 A2.1 LEFT ELEVATION

1/8" = 1'-0"

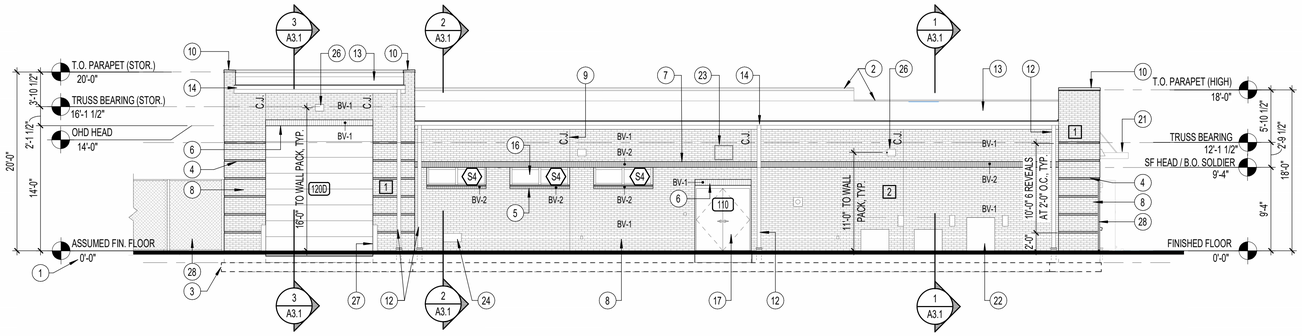
KEYNOTES - EXTERIOR ELEVATIONS (#)

1. ASSUMED FINISHED FLOOR, SEE FLOOR PLAN FOR SLAB HEIGHT AT STORAGE BAYS, TYP.
2. PARAPET BEYOND.
3. FOOTING / FOUNDATION PER STRUCTURAL, TIMBER PILES NOT SHOWN, TYPICAL
4. BRICK REVEALS, RUNNING BOND WITH ACCENT BRICK COLOR BV-2, RECESS 1/2", TYP.
5. BRICK ROWLOCK SILL AT STOREFRONT, SEE WINDOW OPENING DETAILS, TYP.
6. BRICK VENEER SOLDIER COURSE ABOVE OPENING, BRICK COLOR BV-1, FLUSH WITH FIELD BRICK. TYPICAL
7. CONTINUOUS BRICK VENEER SOLDIER COURSE WITH ACCENT BRICK COLOR BV-2, PROTRUDE 1/2".
8. MODULAR BRICK VENEER WITH THROUGH BODY COLOR, RUNNING BOND, TYP.
9. BRICK CONTROL JOINT PER DETAIL 5/A5.1, TYPICAL.
10. COPING CAP AT TOP OF PARAPET PER DETAIL 6/A1.5, TYP.
11. METAL FASCIA PER DETAIL 7/A1.5, TYP.
12. DOWNSPOUT, SEE DETAIL 2/A1.5.
13. MEMBRANE ROOF SYSTEM, SEE ROOF PLAN.
14. ROOF EDGE AND GUTTER, SEE DETAIL 3/A1.5, TYP.
15. OUTLINE OF ROOF BEYOND.
16. ALUMINUM STOREFRONT, SEE WINDOW SCHEDULE, TYPICAL.
17. HOLLOW METAL DOOR AND FRAME PER DOOR SCHEDULE.
18. OVERHEAD SECTIONAL DOOR, SEE DOOR SCHEDULE, TYPICAL.
19. PROVIDE LINTEL/HEADER WITHIN WALL AT 10' HIGH FOR KNOCK-OUT PANEL (FOR PASSAGE TO FUTURE ADDITION). SEE WALL SECTION AND STRUCTURAL.
20. 12" H. DIMENSIONAL SIGNAGE. CONFIRM WORDING WITH OWNER.
21. WALL HUNG CANOPY PER DETAIL 3/A1.4.
22. MECHANICAL EQUIPMENT, SEE MECHANICAL PLANS, TYP.
23. MECHANICAL LOUVER, WALL CAP, ETC., SEE MECHANICAL PLANS, TYP.
24. GAS METER, SEE ELECTRICAL DRAWINGS.
25. SCONCE, SEE ELECTRICAL, TYPICAL.
26. WALL PACK, SEE ELECTRICAL, TYPICAL.
27. BOLLARD PER DETAIL 2/A5.1, TYPICAL.
28. 8' CHAIN LINK FENCING WITH PRIVACY SLATS, SEE CIVIL.
29. 8' INDUSTRIAL ORNAMENTAL ALUMINUM FENCING AND GATES, SEE SPECS AND CIVIL DRAWINGS.



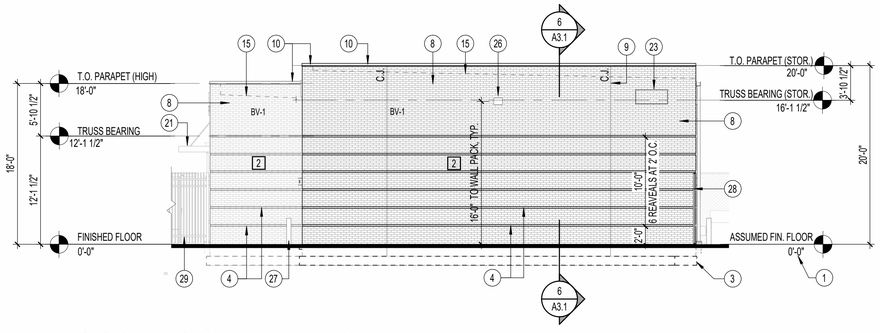
3A A2.1 ALT BID G-1 - REAR ELEVATION (PARTIAL)

1/8" = 1'-0"



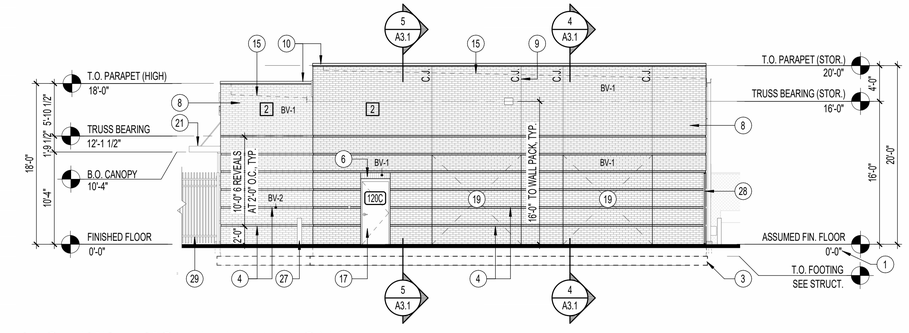
3 A2.1 BASE BID - REAR ELEVATION

1/8" = 1'-0"



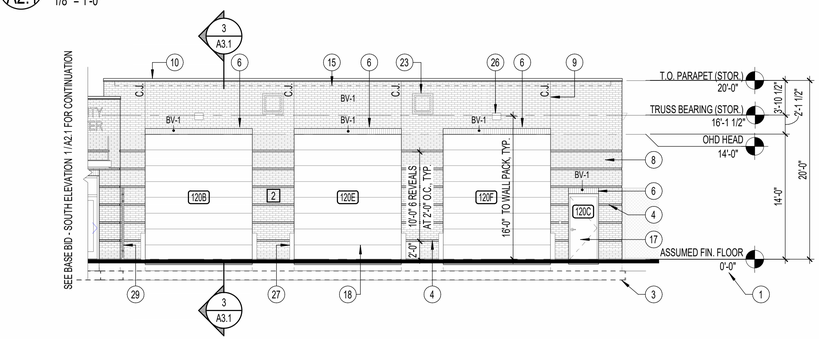
2A A2.1 ALT BID G-1 - RIGHT ELEVATION

1/8" = 1'-0"



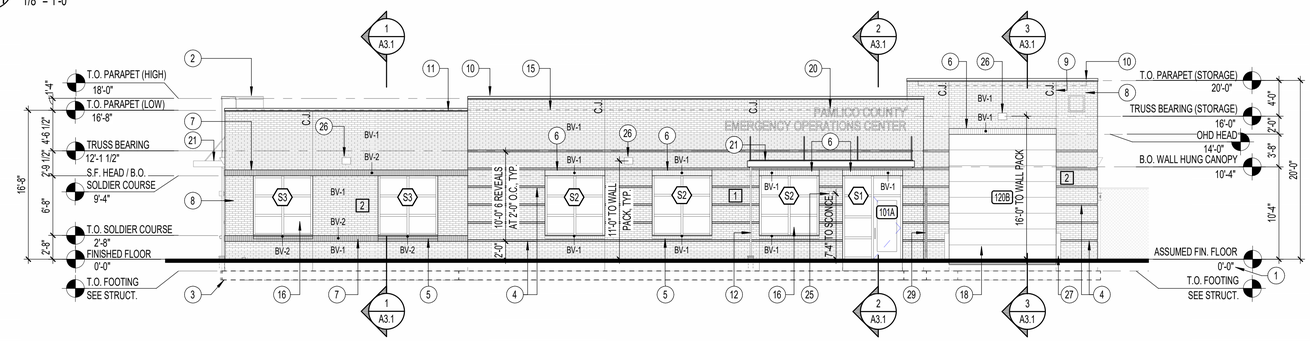
2 A2.1 BASE BID - RIGHT ELEVATION

1/8" = 1'-0"



1A A2.1 ALT BID G-1 - FRONT ELEVATION (PARTIAL)

1/8" = 1'-0"



1 A2.1 BASE BID - FRONT ELEVATION

1/8" = 1'-0"

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BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, NC 09.12.24

BID SET

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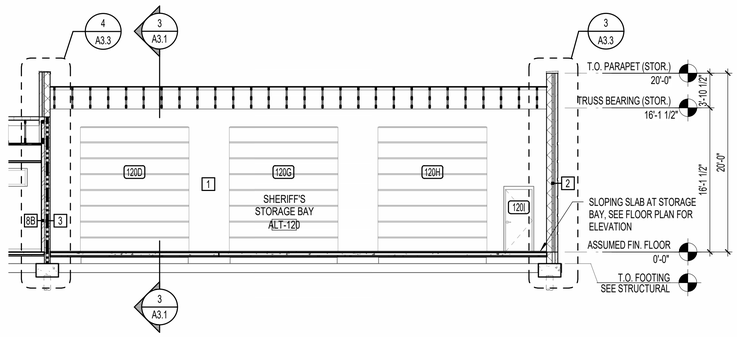
Revisions #	Description	Date

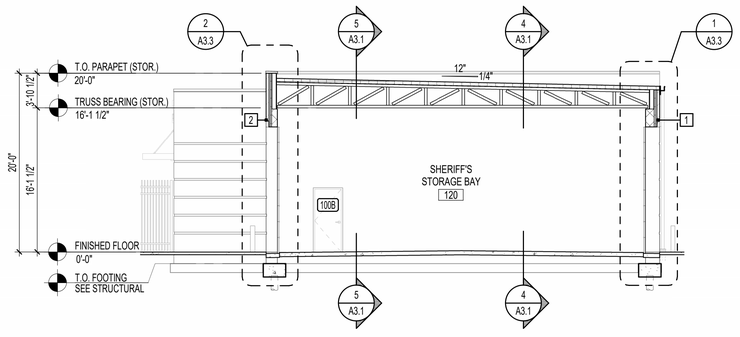
Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A2.1
Checked By: DG	

Sheet Title: BUILDING ELEVATIONS



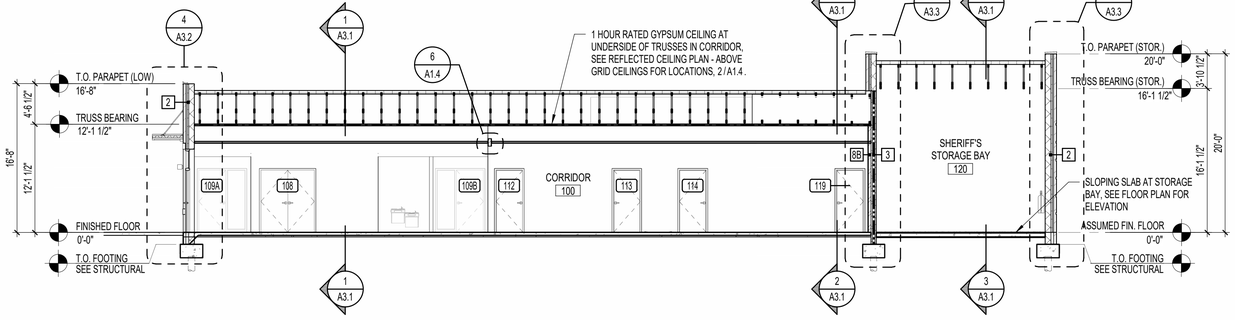
6 A3.1 ALT BID G-1 - PARTIAL LONGITUDINAL SECTION

1/8" = 1'-0"



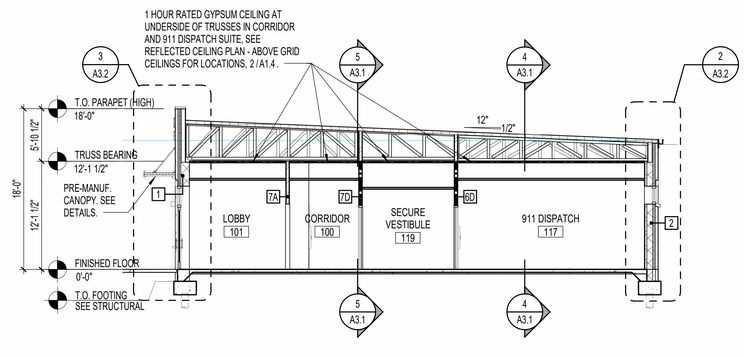
3 A3.1 N/S TRANSVERSE BUILDING SECTION

1/8" = 1'-0"



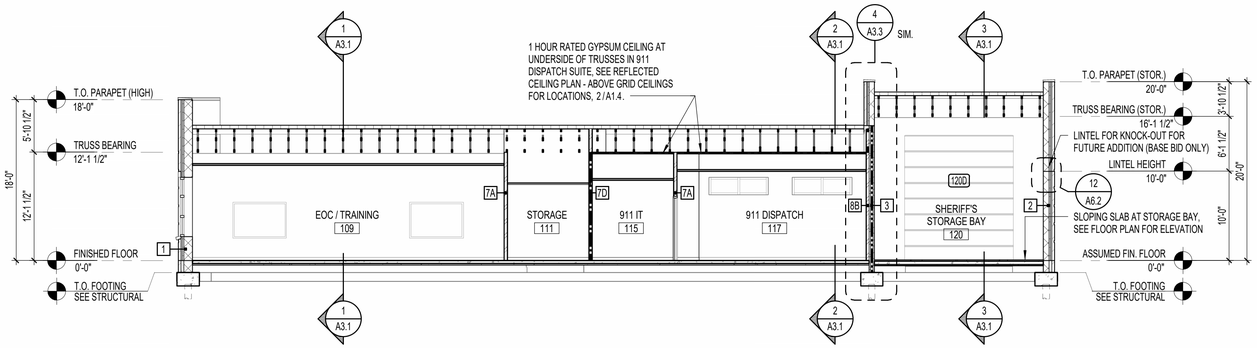
5 A3.1 LONGITUDINAL BUILDING SECTION

1/8" = 1'-0"



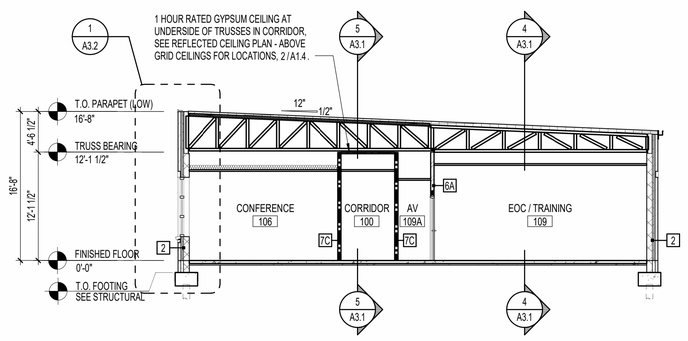
2 A3.1 TRANSVERSE BUILDING SECTION

1/8" = 1'-0"



4 A3.1 LONGITUDINAL BUILDING SECTION

1/8" = 1'-0"



1 A3.1 TRANSVERSE BUILDING SECTION

1/8" = 1'-0"

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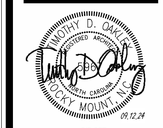
103 N. THIRD STREET, BAYBORO, NC 28515

BID SET



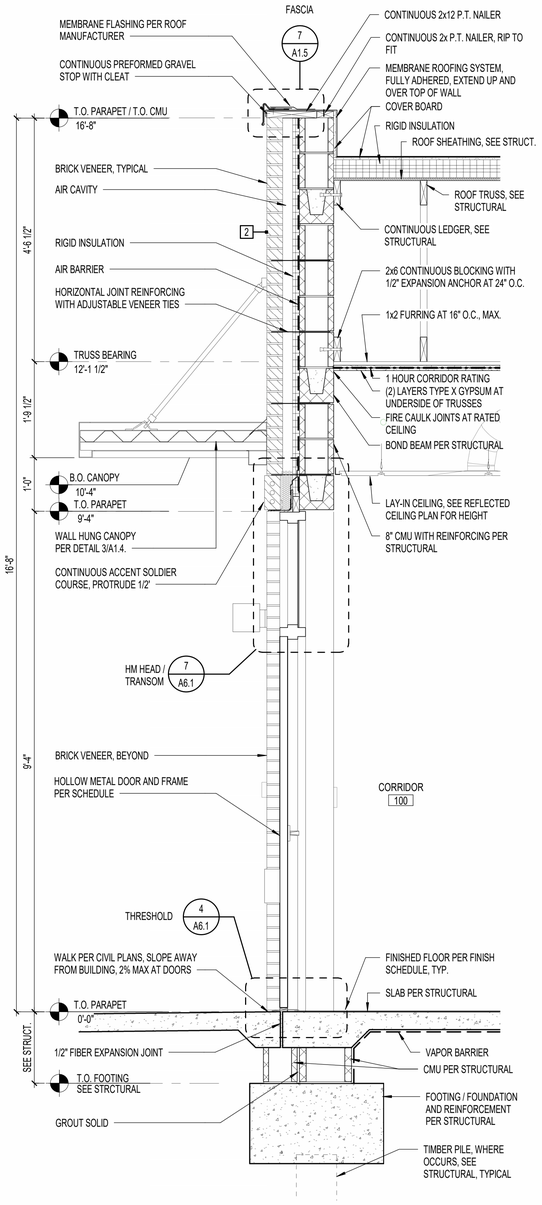
BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

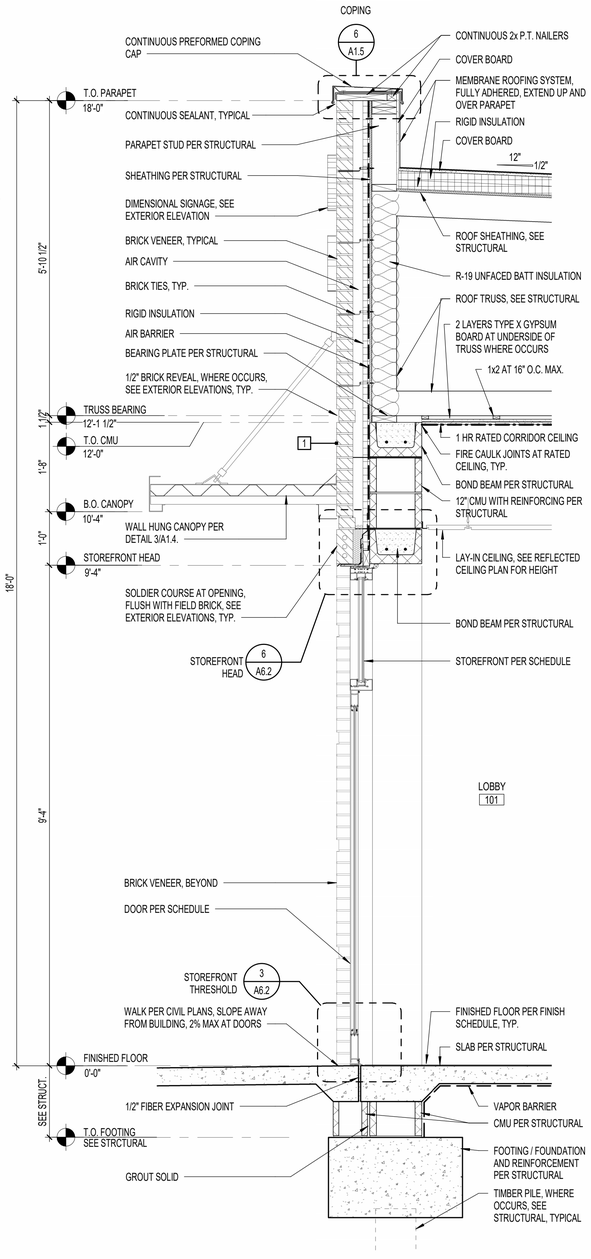
Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A3.1
Checked By: DG	

Sheet Title
BUILDING SECTIONS



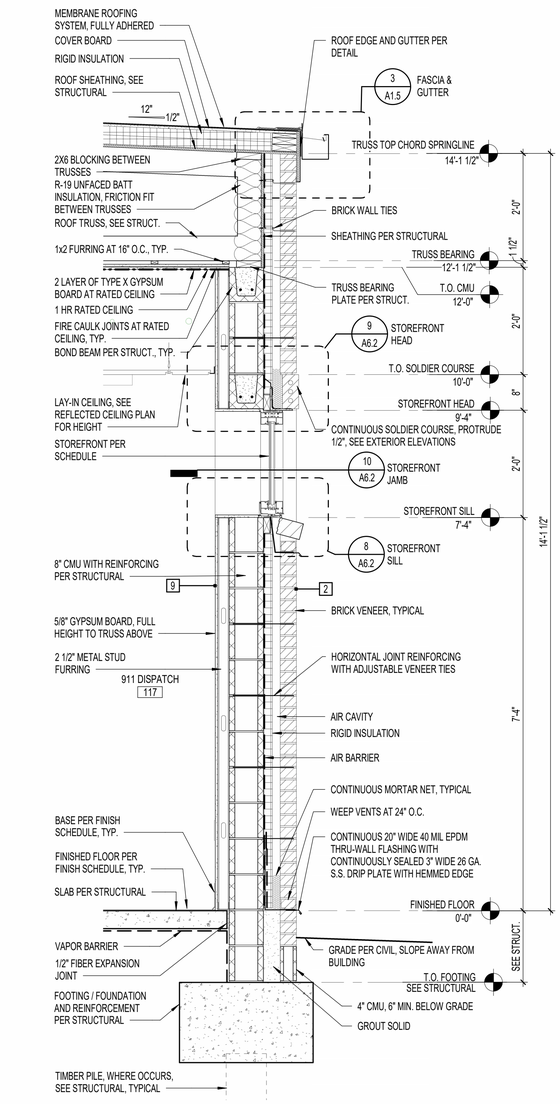
4 A3.2 WALL SECTION - LEFT - 8" CMU

3/4" = 1'-0"



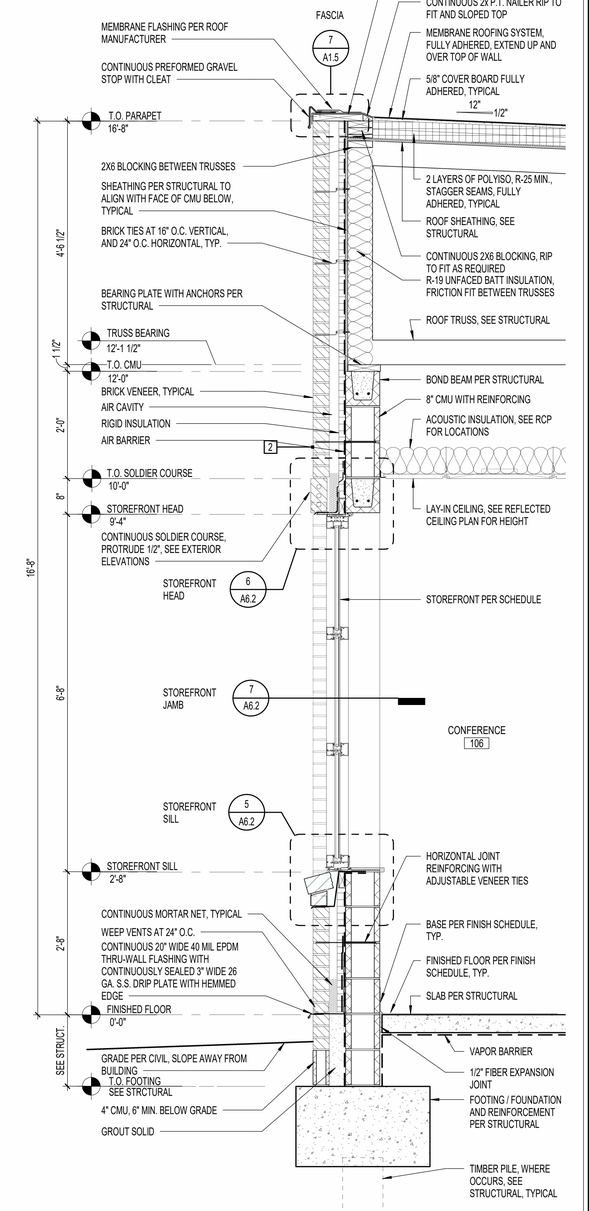
3 A3.2 WALL SECTION - FRONT - ENTRY / 12" CMU

3/4" = 1'-0"



2 A3.2 WALL SECTION - REAR - 8" CMU

3/4" = 1'-0"



1 A3.2 WALL SECTION - FRONT - 8" CMU

3/4" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 [P] 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, N.C. 09.12.24

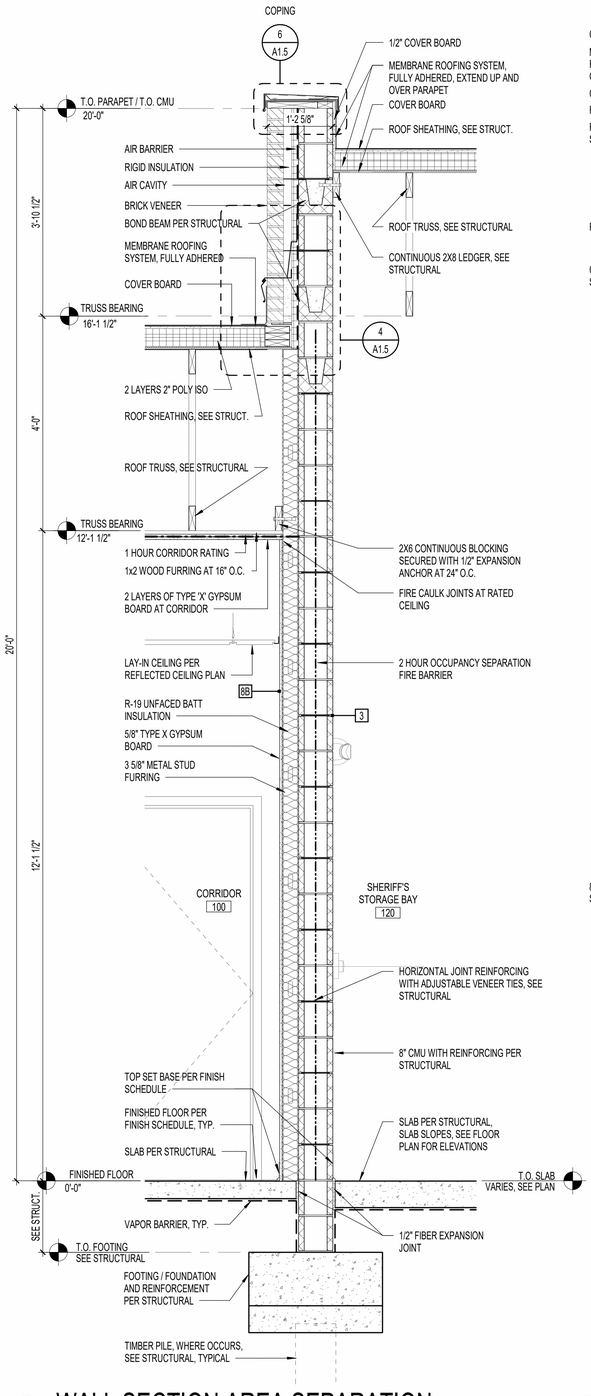
BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

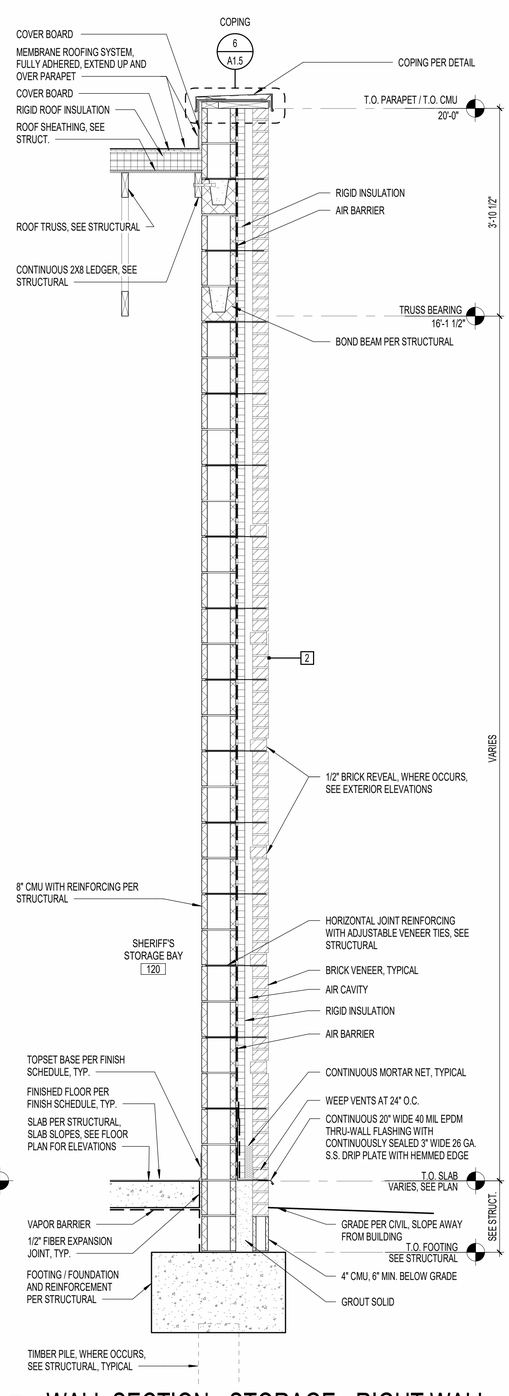
Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A3.2
Checked By: DG	

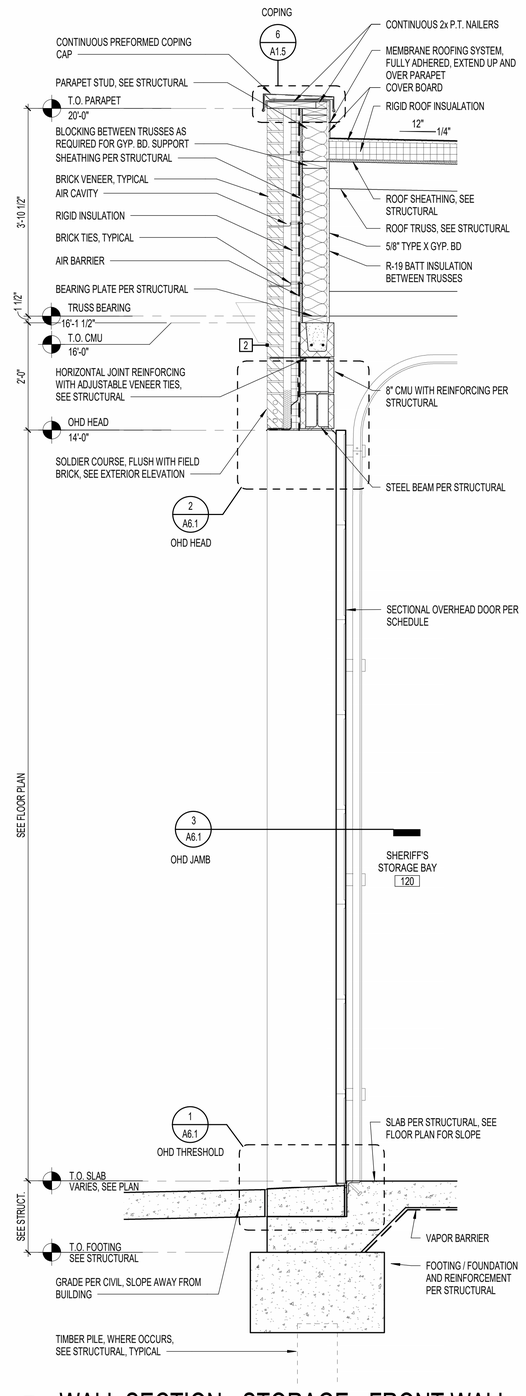
Sheet Title: WALL SECTIONS



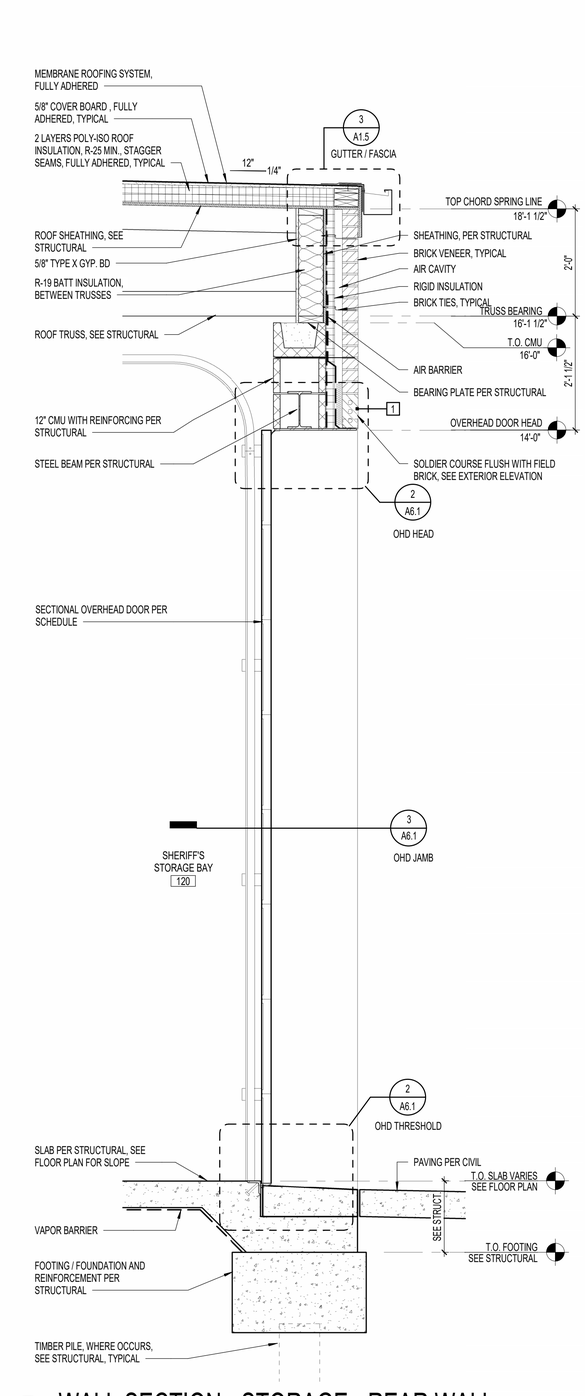
4 A3.3 WALL SECTION AREA SEPARATION
3/4" = 1'-0"



3 A3.3 WALL SECTION - STORAGE - RIGHT WALL
3/4" = 1'-0"



2 A3.3 WALL SECTION - STORAGE - FRONT WALL
3/4" = 1'-0"



1 A3.3 WALL SECTION - STORAGE - REAR WALL
3/4" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A.
REGISTERED ARCHITECTURAL CORPORATION
CERT NO. 50681
NORTH CAROLINA
ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY
REGISTERED ARCHITECT
NORTH CAROLINA
ROCKY MOUNT, NC

09.12.24

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

Date: 09.12.24	Project No.: 24017
Drawn By: JS/AR	Sheet No.: A3.3
Checked By: DG	

Sheet Title: WALL SECTIONS

BXUV.U419

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

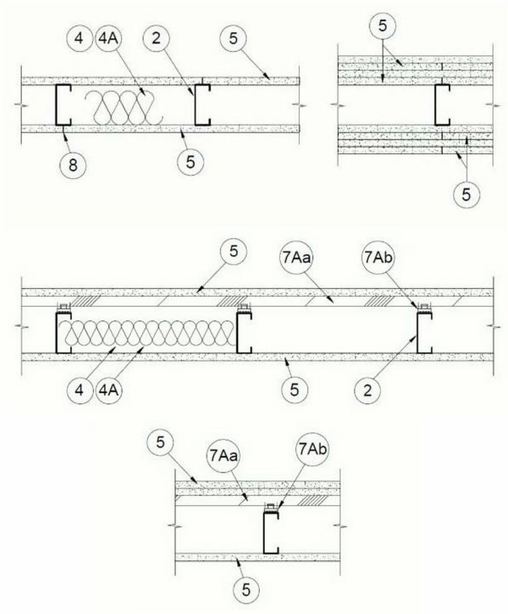
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U419

August 05, 2020

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5J)

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



1. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

CRACO MFG INC — SmartTrack25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

FUSION BUILDING PRODUCTS — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

FUSION BUILDING PRODUCTS — Viper20™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown) — In lieu of Item 1 — Channel shaped, attached to floor and ceiling with fasteners 24 in. OC. max.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

1D. **Floor and Ceiling Runners —** (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, min depth to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

1E. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2E, 5F or 5G or 5I only, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1F. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/8 in. long legs fabricated from min 0.015 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
SUPER STUD BUILDING PRODUCTS — The Edge

1G. **Framing Members* — Floor and Ceiling Runner —** For use with Item 2G, proprietary channel shaped runners, minimum width to accommodate stud size attached to floor and ceiling with fasteners 24 in. OC max.
STUDCO BUILDING SYSTEMS — CROCSTUD Track

1H. **Floor and Ceiling Runners —** (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs specified below and fabricated from min 0.018 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track VT100

FUSION BUILDING PRODUCTS — Viper20™ Track VT100

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track VT100

1I. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1) — For use with Items 2H, channel shaped, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.
TELLING INDUSTRIES L L C — TRUE-TRACK™

1J. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2I, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.
TELLING INDUSTRIES L L C — Viper25™ Track

1K. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2J, proprietary channel shaped runners, 1-1/4 in. wide by 3-5/8 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
TELLING INDUSTRIES L L C — Viper20™ Track

1L. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2N, proprietary channel shaped runners, 1-1/4 in. wide by min. 3-1/2 in. deep fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1M. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Wall Track

1N. **Framing Members* — Floor and Ceiling Runners —** Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Track

1O. **Framing Members* — Floor and Ceiling Runner —** Not Shown — In lieu of Item 1 — For use with Item 2Q, proprietary channel shaped runners, min width to accommodate stud size, fabricated from min. 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners spaced 24 in. OC max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. **Steel Studs —** Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. **Steel Studs —** (As an alternate to Item 2, For use with Items 5B, 5E, 5H, 5J or Type ULIX) — Channel shaped, fabricated from min 20 MSG corrosion-protected or galv steel, 3-1/2 in. min depth, spaced a max of 16 in. OC. Studs friction-fit into floor and ceiling runners. Studs to be cut 5/8 to 3/4 in. less than assembly height.

2B. **Framing Members* - Steel Studs —** (As an alternate to Item 2, For use with Items 5C, 5I or Type ULIX) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

CRACO MFG INC — SmartStud25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™

FUSION BUILDING PRODUCTS — Viper20™

IMPERIAL MANUFACTURING GROUP INC — Viper20™

2D. **Framing Members* — Steel Studs —** In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
ALLSTEEL & GYPSUM PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type SUPREME D24/30EQD and Type SUPREME D20

QUAIL RUN BUILDING MATERIALS INC — Type SUPREME D24/30EQD and Type SUPREME D20

SCAFCO STEEL STUD MANUFACTURING CO — Type SUPREME D24/30EQD and Type SUPREME D20

STEEL CONSTRUCTION SYSTEMS INC — Type SUPREME D24/30EQD and Type SUPREME D20

UNITED METAL PRODUCTS INC — Type SUPREME D24/30EQD and Type SUPREME D20

2E. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — For use with Items 5F or 5G or 5I or Type ULIX only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2F. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, minimum width indicated under Item 5, 1-1/4 in. deep fabricated from min 0.015 in. (min bare metal thickness) galvanized steel. Studs 3/8 in. to 3/4 in. less in lengths than assembly heights.
SUPER STUD BUILDING PRODUCTS — The Edge

2G. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped studs, minimum width indicated under Item 5, Studs to be cut 3/8 to 3/4 in less than the assembly height.
STUDCO BUILDING SYSTEMS — CROCSTUD

2H. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2) — Fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE-STUD™

2I. **Framing Members* — Steel Studs —** (As an alternate to Item 2, For use with Items 5C or 5L or 5K) — Proprietary channel shaped studs, 3-5/8 in. deep spaced a max of 24 in. OC. Studs to be cut 3/4 in less than the assembly height and installed with a 1/2 in. gap between the end of the stud and track at the bottom of the wall. For direct attachment of gypsum board only.
TELLING INDUSTRIES L L C — Viper25™

2J. **Framing Members* — Metal Studs —** Not Shown — In lieu of Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max if 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights
TELLING INDUSTRIES L L C — Viper20™

2K. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
EB METAL INC — NITROSTUD

2L. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
OLMAR SUPPLY INC — PRIMESTUD

2M. **Framing Members* — Steel Studs —** As an alternate to Item 2 — For use with Item 1, channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2N. **Framing Members*— Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min depth 3-1/2 in. and as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. to 3/4 in. less in length than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2O. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
RONDO BUILDING SERVICES PTY LTD — Rondo Lipped Wall Stud

2P. **Framing Members* — Steel Studs —** As an alternate to Item 2 — proprietary channel shaped steel studs, min width as indicated under Item 5, min 25 MSG galv steel. Studs to be cut 3/8 to 3/4 in. less in lengths than assembly height. Spaced 24 in. OC max.
OEG BUILDING MATERIALS — OEG Stud

2Q. **Framing Members* — Steel Studs —** Not Shown — In lieu of Item 2 — For use with Item 1O, proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 25 MSG (0.018 in. min. bare metal thickness). Studs cut 3/8 in. to 3/4 in. less in lengths than assembly heights.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. **Wood Structural Panel Sheathing —** (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC PS1 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC. in the perimeter and 12 in. OC. in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

4. **Batts and Blankets* —** (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4A. **Batts and Blankets* —** (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

4B. **Fiber, Sprayed* —** (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCAZ).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Tvpe Rockwool Premium Plus

5. **Gypsum Board* —** Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Items 2, 2C, 2D, 2F, 2G, 2O	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional

UL U 419 CONTINUED ON NEXT SHEET

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS P.A. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC
BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, N.C. 09.12.24
BID SET

GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions	Description	Date
1		

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A3.4
Checked By: DG	

Sheet Title: UL DETAILS - U419

UL U 419 CONTINUED FROM PREVIOUS SHEET

2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, WRX or WRC; 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Type C and 5/8 in. thick Type SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULIX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX. SHX. WRX. WRC or: 3/4 in. thick Tvoes IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
CGC INC — Type SHX.

UNITED STATES GYPSUM CO — Type FRX-G, SHX.

USG MEXICO S A DE C V — Type SHX.

5B. **Gypsum Board* —** (Not Shown) — As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 in or 3/4 in. thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) — Nom 5/8 in. or 3/4 in. may be used as alternate to all 5/8 in. or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Gypsum board secured to 20 MSG steel studs Item 2A with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. To be used with Lead Batten Strips (see Item 11) or Lead Discs or Tabs (see Item 12).
RAY-BAR ENGINEERING CORP — Type RB-LBG

5C. **Gypsum Board* —** (For Use With Item 2B) — Rating Limited to 1 Hour. 5/8 in. thick, 48 in. wide, Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. (Vertical Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. Vertical joints are to be centered over studs and staggered one stud cavity on opposite sides of studs. (Horizontal Application) - The gypsum board is to be installed on each side of the studs with 1 in. long Type S coated steel screws spaced 8 in. OC starting 4 in. from the edge of the board at the vertical edges and 12 in. OC starting 6 in. from the edge of the board at the center of each board. Gypsum boards are to be secured to the top and bottom track with screws spaced 8 in. OC starting 4 in. from the board edge. Fasteners shall not penetrate through both the stud and the track at the same time. All horizontal joints are to be backed as outlined under section VI of Volume 1 in the Fire Resistive Directory.
CGC INC — Type SCX, ULIX.

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — Type SCX, SGX, ULIX.

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX

5D. **Gypsum Board* —** (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
CGC INC — Type USGX

UNITED STATES GYPSUM CO — Type USGX

USG BORAL DRYWALL SFZ LLC — Type USGX

USG MEXICO S A DE C V — Type USGX

5E. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nominal 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 (or No. 6 by 1-1/4 in. long bugle head fine driller) steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field.
NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelco

5F. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E and limited to 1 Hour Rating only, Gypsum panels with beveled, square or tapered edges, applied vertically, and fastened to the steel studs with 1 in. long Type S screws spaced 8 in. OC along vertical and bottom edges and 12 in. OC in the field. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Steel stud depth shall be a minimum 3-5/8 in.
THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — Type SCX

UNITED STATES GYPSUM CO — 5/8 in. thick Type SCX, SGX, ULIX

USG BORAL DRYWALL SFZ LLC — 5/8 in. thick Type SCX, SGX

5G. **Gypsum Board* —** (As an alternate to Item 5) — For use with Items 1E and 2E only, Gypsum panels with beveled. square or tapered edges, applied vertically or horizontally, as specified in the table below and fastened to the steel studs as described in Item 6. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 2 hr, 3 hr and 4 hr ratings are as follows:

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, in. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, IP-X2 or IPC-AR; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX or 3/4 in. thick Types IP-X3 or ULTRACODE

THE SIAM GYPSUM INDUSTRY (SONGKHLA) CO — 1/2 in. thick Types C and 5/8 in. thick SCX

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type SCX, SGX, SHX, IP-X1, AR, C, , FRX-G, IP-AR, IP-X2, IPC-AR, ULIX; 3/4 in. thick Types IP-X3 or ULTRACODE

USG BORAL DRYWALL SFZ LLC — 1/2 in. Type C; 5/8 in. Types C, SCX, SGX, ULTRACODE

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, or; 3/4 in. thick Types IP-X3 or ULTRACODE

5H. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 5/8 or 3/4 in thick products are specified. For direct attachment only to steel studs Item 2A, (not to be used with Item 3) - Nom 5/8 or 3/4 in. may be used as alternate to all 5/8 or 3/4 in. shown in Item 5, Wallboard Protection on Each Side of Wall table. Nom 5/8 or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Gypsum board secured to 20 MSG steel studs Item 2B with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 11A) or Lead Discs (see Item 12A).
MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5I. **Gypsum Board* —** (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
CGC INC — Type ULIX, ULX

UNITED STATES GYPSUM CO — Type ULIX, ULX

USG MEXICO S A DE C V — Type ULX

5J. **Gypsum Board* —** (Not Shown) — (As an alternate to Item 5 when used as the base layer on one or both sides of wall when 1/2 in. or 5/8 in thick products are specified, For direct attachment only to steel studs Item 2A, not to be used with Item 3). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".
RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

6. **Fasteners —** (Not Shown) — For use with Items 2 and 2F - Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically.**Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer.**Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

7. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 5A.

7A. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. **Framing Members* —** (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. **Framing Members* —** (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC., and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7Eb. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire.. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. **Steel Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. **Resilient Channels —** Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5. Not for use with Item 5A and 5E.

b. **Steel Framing Members* —** Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. **Framing Members* —** (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. **Furring Channels —** Formed of No. 25 MSG galv steel. 2-23/32 in. wide by 7/8 in. or 1-1/2 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6. Not for use with Item 5A.

b. **Steel Framing Members* —** Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. **Siding, Brick or Stucco —** (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. **Caulking and Sealants* —** (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. **Lead Batten Strips —** (Not Shown, For Use With Item 5B) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5B) and optional at remaining stud locations. Required behind vertical joints.

11A. **Lead Batten Strips —** (Not Shown, For Use With Item 5H) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting the Federal specification QQ-L-201f, Grades "B, C or D". Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations.

12. **Lead Discs or Tabs —** (Not Shown, For Use With Item 5B) — Used in lieu of or in addition to the lead batten strips (Item 11) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5B) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

12A. **Lead Discs —** (Not Shown, for use with Item 5H) — Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

13. **Lead Batten Strips —** (Not Shown, For Use With Item 5E) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 5E) and optional at remaining stud locations.

14. **Lead Tabs —** (Not Shown, For Use With Item 5E) — 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction-fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 5E) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

15. **Barrier Mesh —** (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

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

Last Updated on 2020-08-05

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC
BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, NC 09.12.24
BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No. A3.5
Checked By: DG	

Sheet Title
UL DETAILS - U419

UL I507

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

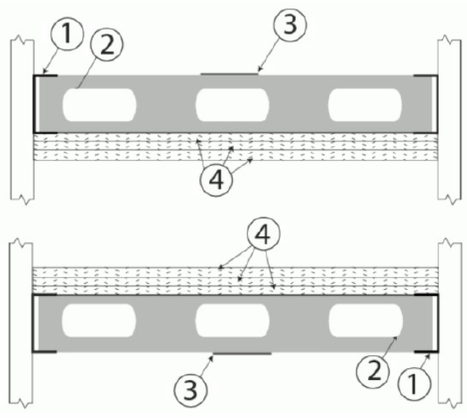
BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. I507

July 17, 2024

Ceiling Membrane Rating - 1 Hr
Load Restriction - Limited to the Dead Weight of the Assembly
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Perimeter Channels/C Channels —** Used to support steel studs at both ends of wall structure. Min. 6 in. deep with min. 2 in. legs and formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness). Perimeter channels attached to wall structure with fasteners spaced not greater than 24 in. O.C. at both the top and bottom of the vertical leg.

1A. **Hanger Wire —** Not shown - If necessary - Min. 8 gauge steel wire, hung from holes punched in C-Channel (Item 1) and fastened to suitable point of attachment (HSS 3x3x1/4 in. or steel member having equal or greater stiffness). Hanger wire spaced nominally 24 in. OC.

2. **Steel Studs —** Min. 6 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness). Studs to be cut 3/8 in. to 5/8 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. O.C. At each end of the stud, the un-faced side shall be secured to the perimeter channel with one min 7/16 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall. These end studs shall be secured to the adjoining wall in the same manner as the perimeter channels (Item1). Maximum unsupported length of studs not to exceed 8 ft. 1 in.

3. **Steel Strap —** Min 4 in. wide formed from min. No. 20 MSG galv. Steel (0.0329 in. thick bare metal thickness). Secured perpendicular to the studs at the centerline of the span using two 1/2 in. long pan-head steel screws. Strips to overlap one full stud bay at splice locations. As an alternate to the steel strap, Perimeter Channels (Item 1) may be substituted and installed in the same manner as the steel straps. If a continuous piece is not used, the abutted legs are installed on each side of the centerline of the span and overlap one full stud bay.

4. **Gypsum Board* —** Three layers of nom. 5/8 in. thick gypsum board installed with long dimension perpendicular to the steel studs. Base layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to studs and perimeter channels with 1-1/4 in. long Type S steel screws spaced max. 16 in. O.C. Middle layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to the studs and perimeter channels with 1-5/8 in. long Type S steel screws spaced max. 16 in. O.C. Middle layer joints staggered a min. 16 in. from base layer joints Face layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to the studs and perimeter channels with 2-1/4 in. long Type S steel screws spaced max. 12 in. O.C. Face layer joints staggered a min. 16 in. from middle layer joints.
CERTAINTEED GYPSUM INC — Type X-1, EGRG, GlasRoc, GlasRoc-2

5. **Joint Tape and Compound —** Not Shown (Optional - Not Required On Joints. Required On Screw Heads) Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

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

Last Updated on 2024-07-17

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:
EOC / 911 DISPATCH
PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT. NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC
BID SET

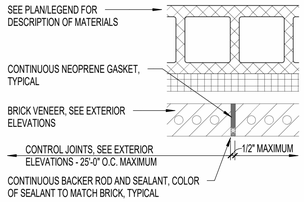
TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, NC 09.12.24
BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions #	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A3.6
Checked By: DG	

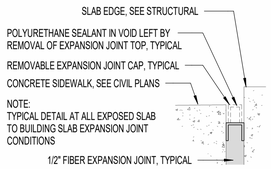
Sheet Title: UL DETAILS - I507



TYPICAL JOINT AT CMU BACK-UP WALLS

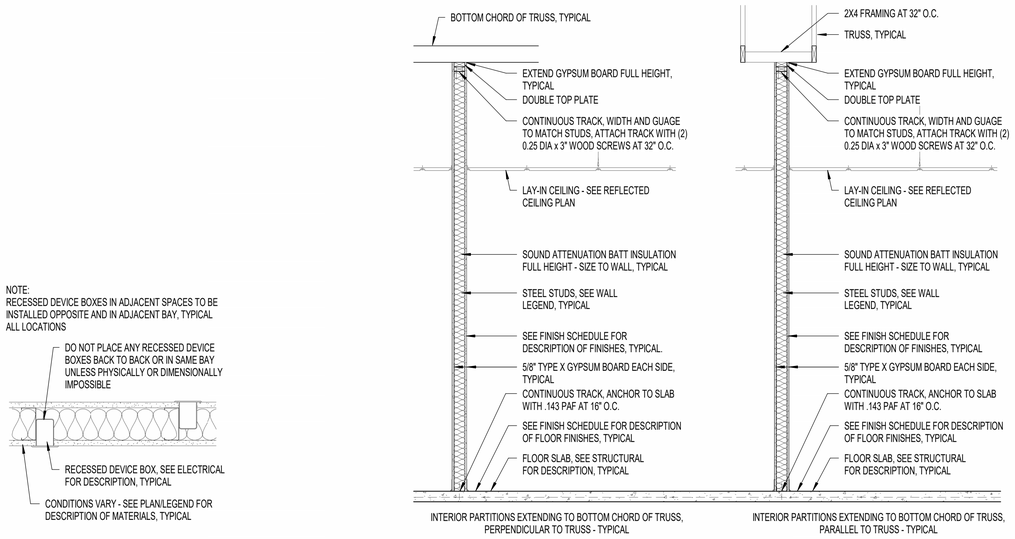
5 A5.1 BRICK CONTROL JOINT

1 1/2" = 1'-0"



4 A5.1 EXT-CAULKING JOINT-SIDEWALK

6" = 1'-0"



INTERIOR PARTITIONS EXTENDING TO BOTTOM CHORD OF TRUSS, PERPENDICULAR TO TRUSS - TYPICAL

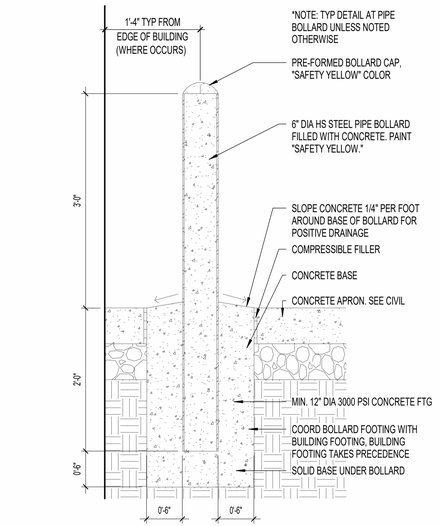
INTERIOR PARTITIONS EXTENDING TO BOTTOM CHORD OF TRUSS, PARALLEL TO TRUSS - TYPICAL

6 A5.1 RECESSED DEVICE BOX

1 1/2" = 1'-0"

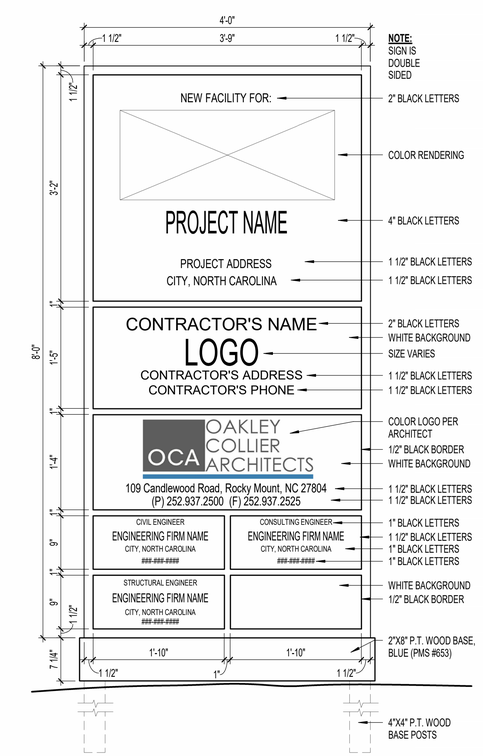
3 A5.1 TYP INTERIOR PARTITION DETAIL

1/2" = 1'-0"



2 A5.1 BOLLARD

1" = 1'-0"



1 A5.1 JOB SIGN

1" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252.937.2500
205 W. Martin Street, Raleigh, NC 27601

NEW CONSTRUCTION FOR:

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BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, N.C. 09.12.24

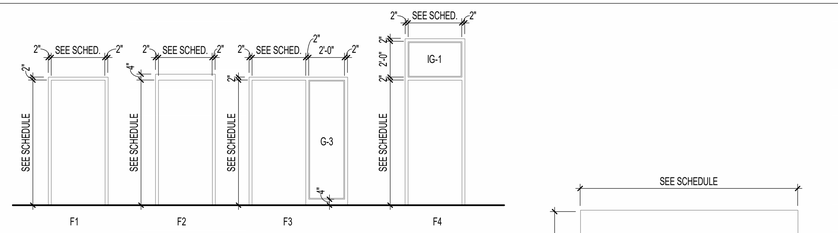
BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

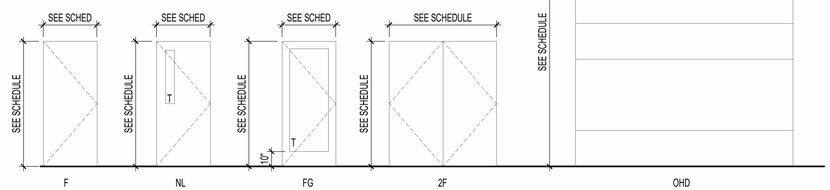
Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A5.1
Checked By: DG	

Sheet Title: MISC. DETAILS



FRAME - ELEVATIONS

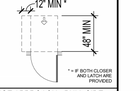
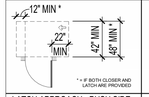
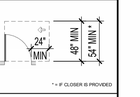
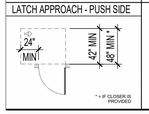
1/4" = 1'-0"



DOOR - ELEVATIONS

1/4" = 1'-0"

DOOR CLEARANCE LEGEND

FRONT APPROACH - PULL SIDE	FRONT APPROACH - PUSH SIDE
	
HINGE APPROACH - PULL SIDE	HINGE APPROACH - PULL SIDE
	
HINGE APPROACH - PUSH SIDE	LATCH APPROACH - PULL SIDE
	
LATCH APPROACH - PUSH SIDE	
	

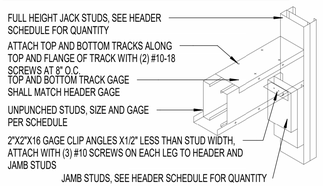
INTERIOR HEADER SCHEDULE

OPENING	SIZE	JACK	JAMB
0'-0" TO 5'-0"	3 5/8" X 20 GA.	2	2
5'-1" TO 7'-0"	6" X 20 GA.	2	2
7'-1" TO 10'-0"	8" X 20 GA.	2	3
10'-1" TO 18'-0"	10" X 16 GA.	3	4
18'-1" TO 25'-0"	12" X 16 GA.	3	4

ALL BOXED HEADERS SHALL BE SIZED TO FIT WALL SIZES SHOWN ARE MINIMUMS.

PROVIDE JACK AND JAMB STUDS AT EACH INTERIOR HEADER LOCATION AS SCHEDULED UNLESS NOTED OTHERWISE ON ARCHITECTURAL OR STRUCTURAL PLANS.

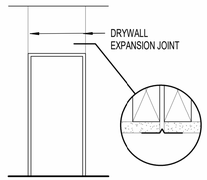
SEE STRUCTURAL PLANS FOR ALL EXTERIOR HEADERS.



NON-LOAD BEARING

14 A6.1 TYP INT. HEADER DETAIL

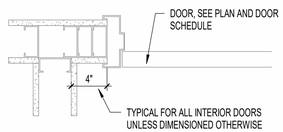
1/2" = 1'-0"



NOTES:
1. LOCATE AT DOOR IN WALL OVER 25 FEET LONG WITHOUT INTERRUPTION.
2. LOCATION AS NOTED ON PLANS OR AS DIRECTED BY ARCHITECT.

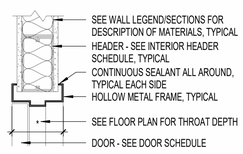
13 A6.1 DRYWALL EXPANSION JOINT

3" = 1'-0"



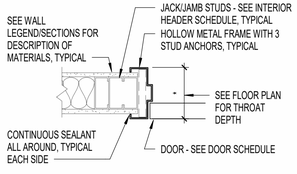
12 A6.1 DOOR PLACEMENT

1 1/2" = 1'-0"



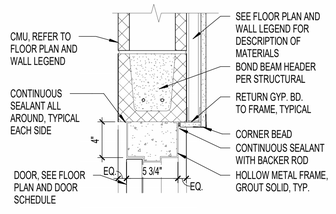
11 A6.1 HM DOOR - HEAD - INT. STUD

1 1/2" = 1'-0"



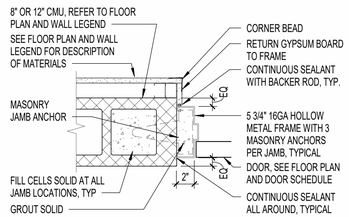
10 A6.1 HM DOOR - JAMB - INT STUD

1 1/2" = 1'-0"



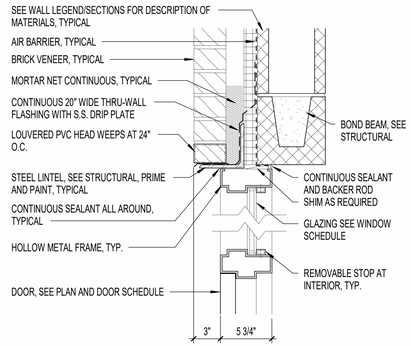
9 A6.1 HM DOOR-HEAD-INT FURRED

1 1/2" = 1'-0"



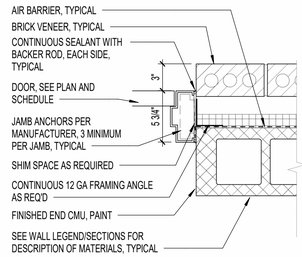
8 A6.1 HM DOOR-JAMB-INT FURRED

1 1/2" = 1'-0"



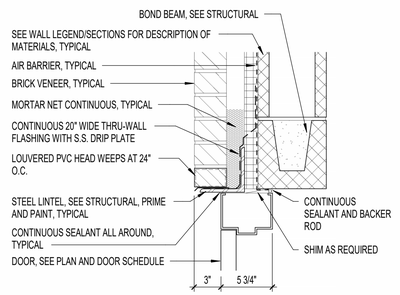
7 A6.1 HM DOOR - TRANSOM - BRICK

1 1/2" = 1'-0"



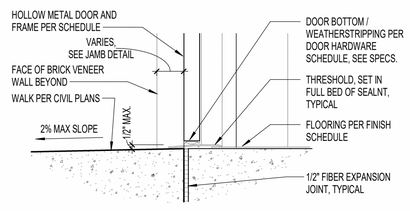
6 A6.1 HM DOOR - JAMB - BRICK

1 1/2" = 1'-0"



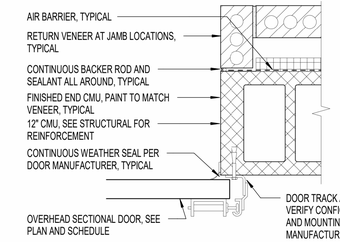
5 A6.1 HM DOOR - HEAD - BRICK

1 1/2" = 1'-0"



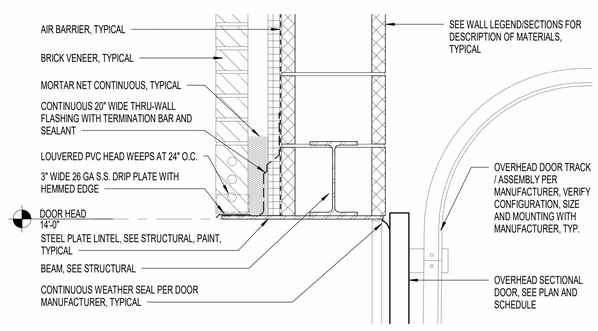
4 A6.1 HM DOOR-THRESHOLD - EXT

1 1/2" = 1'-0"



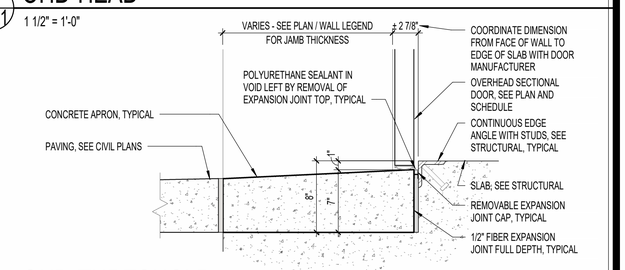
3 A6.1 OHD-JAMB

1 1/2" = 1'-0"



2 A6.1 OHD-HEAD

1 1/2" = 1'-0"



1 A6.1 OHD-THRESHOLD

1 1/2" = 1'-0"

DOOR SCHEDULE

	DOOR							FRAME				DETAILS				
	SIZE			DESCRIPTION				DESCRIPTION								
DOOR #	WIDTH	HEIGHT	THICK.	MATERIAL	FINISH	GLAZING	ELEV.	MATERIAL	FINISH	ELEV.	FIRE RATING	HEAD	JAMB	SILL	COMMENTS	DOOR #
100A	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	-	F	H.M.	PAINT	F4	-	7/A6.1	6/A6.1	4/A6.1	ACCESS CONTROLS, IG-2 GLAZING AT TRANSOM	100A
100B	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	-	F	H.M.	PAINT	F2	90 MIN	9/A6.1	8/A6.1	12/A1.3	ACCESS CONTROLS	100B
100C	2'-2"	3'-2"	0"													100C
101A	3'-0"	7'-0"	1 3/4"	ALUM.	ANNODIZED	IG-2	FG	ALUM.	ANNODIZED	S1	-	2/A6.2	7/A6.2 SIM.	3/A6.2		101A
101B	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	G-2	NL	H.M.	PAINT	F1	-	11/A6.1	10/A6.1	14/A1.3	ACCESS CONTROLS	101B
102	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	G-4	NL	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	14/A1.3		102
103	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	G-4	NL	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	14/A1.3		103
104	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	G-4	NL	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	14/A1.3		104
105	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	45 MIN	11/A6.1	10/A6.1	-	ACCESS CONTROLS	105
106	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	G-4	NL	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	14/A1.3		106
107	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	G-4	NL	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	-		107
108	6'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	2F	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	-	ACCESS CONTROLS	108
109A	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F3	20 MIN	11/A6.1	10/A6.1	14/A1.3	G-3 GLAZING AT SIDE LITE	109A
109B	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F3	20 MIN	11/A6.1	10/A6.1	14/A1.3	G-3 GLAZING AT SIDE LITE	109B
109C	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	-	11/A6.1	10/A6.1	-		109C
110	6'-0"	7'-0"	1 3/4"	H.M.	PAINT	-	2F	H.M.	PAINT	F2	-	5/A6.1	6/A6.1	4/A6.1	ACCESS CONTROLS	110
111	6'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	2F	H.M.	PAINT	F1	-	11/A6.1	10/A6.1	-		111
112	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	12/A1.3		112
113	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	13/A1.3		113
114	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	20 MIN	11/A6.1	10/A6.1	13/A1.3		114
115	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	-	11/A6.1	10/A6.1	-	ACCESS CONTROLS	115
116	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	G-2	NL	H.M.	PAINT	F1	-	11/A6.1	10/A6.1	-		116
117	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	60 MIN	11/A6.1	10/A6.1	14/A1.3		117
118	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	-	11/A6.1	10/A6.1	15/A1.3		118
119	3'-0"	7'-0"	1 3/4"	S.C. WOOD	STAIN	-	F	H.M.	PAINT	F1	60 MIN	11/A6.1	10/A6.1	-	ACCESS CONTROLS	119
120B	12'-0"	14'-1 3/4"	2"	STEEL	PRE-FINISHED	-	OHD	STEEL	PRE-FINISHED	-		2/A6.1	3/A6.1	1/A6.1	BASE BID & ALTERNATE G-1	120B
120C	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	-	F	H.M.	PAINT	F2	-	5/A6.1	6/A6.1	4/A6.1	ACCESS CONTROLS, BASE BID & ALTERNATE G-1	120C
120D	12'-0"	14'-1 3/4"	2"	STEEL	PRE-FINISHED	-	OHD	STEEL	PRE-FINISHED	-		2/A6.1	3/A6.1	1/A6.1	BASE BID & ALTERNATE G-1	120D
120E	12'-0"	14'-1 3/4"	2"	STEEL	PRE-FINISHED	-	OHD	STEEL	PRE-FINISHED	-		2/A6.1	3/A6.1	1/A6.1	ALTERNATE G-1 ONLY	120E
120F	12'-0"	14'-1 3/4"	2"	STEEL	PRE-FINISHED	-	OHD	STEEL	PRE-FINISHED	-		2/A6.1	3/A6.1	1/A6.1	ALTERNATE G-1 ONLY	120F
120G	12'-0"	14'-1 3/4"	2"	STEEL	PRE-FINISHED	-	OHD	STEEL	PRE-FINISHED	-		2/A6.1	3/A6.1	1/A6.1	ALTERNATE G-1 ONLY	120G
120H	12'-0"	14'-1 3/4"	2"	STEEL	PRE-FINISHED	-	OHD	STEEL	PRE-FINISHED	-		2/A6.1	3/A6.1	1/A6.1	ALTERNATE G-1 ONLY	120H
120I	3'-0"	7'-0"	1 3/4"	H.M.	PAINT	-	F	H.M.	PAINT	F2	-	5/A6.1	6/A6.1	4/A6.1	ALTERNATE G-1 ONLY, ACCESS CONTROLS	120I

GENERAL DOOR NOTES

A. ALL HARDWARE SHALL MEET ALL APPLICABLE HANDICAP CODES.
B. TEMPERED GLAZING SHALL BE USED AS NOTED AND AS REQUIRED BY CODE.
C. EXTERIOR DOOR GLAZING SHALL BE IR TEMPERED INSULATING, TYPICAL, U.N.O.
D. EXTERIOR DOOR GLAZING SHALL BE TINTED TO MATCH STOREFRONT GLAZING.
E. FURNISH AND INSTALL DOOR CLOSERS AS SCHEDULED IN COMPLIANCE WITH ALL APPLICABLE CODES.
F. ALL HOLLOW METAL DOOR FRAMES SHALL BE FULLY WELDED TYPE, FACTORY PRIMED, AND FIELD PAINTED. COLOR PER ARCHITECT. INSTALL PER MANUFACTURER FOR PROPER INSTALLATION AND OPERATION FOR SPECIFIC APPLICATIONS.
G. ALL WOOD DOORS SHALL BE STAIN GRADE, SPECIES, AND COLOR PER ARCHITECT.
H. ALL ALUMINUM STOREFRONT AND DOORS SHALL BE PREFINISHED COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE OF COLORS.
I. DOOR THRESHOLDS SHALL BE 1/2" MAXIMUM HEIGHT.
J. SEE SHEET A6.2 FOR GLAZING TYPES.

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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
103 N. THIRD STREET, BAYBORO, NC 28515

OAKLEY COLLIER ARCHITECTS, P.A.
REGISTERED ARCHITECTURAL CORPORATION
CERT NO. 50681
NORTH CAROLINA
ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY
REGISTERED ARCHITECT
NORTH CAROLINA
ROCKY MOUNT, N.C.
09.12.24

BID SET

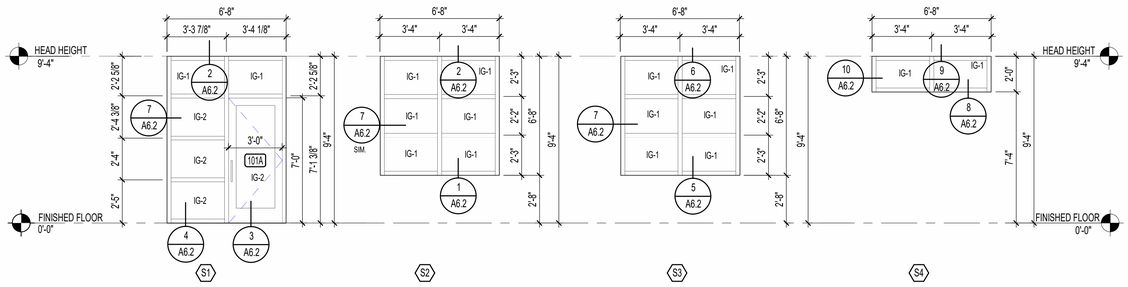
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all dimensions.

Revisions

#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A6.1
Checked By: DG	

Sheet Title: DOOR SCHEDULE & DETAILS



WINDOW - ELEVATIONS

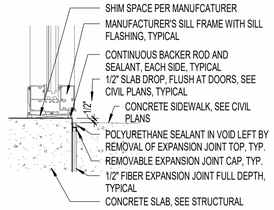
1/4" = 1'-0"

WINDOW LEGEND	
UNIT	S# = STOREFRONT FRAMING SYSTEM (IMPACT RESISTANT)
GLAZING	IG-1 = INSULATING GLASS UNITS: VISION GLAZING IG-2 = INSULATING GLASS UNITS: SAFETY GLAZING G-1 = NOT USED G-2 = MONOLITHIC SAFETY GLAZING G-3 = FIRE PROTECTIVE SAFETY GLAZING - 45 MIN. G-4 = FIRE PROTECTIVE SAFETY GLAZING - 20 MIN.

NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. ALL EXTERIOR STOREFRONT FRAMING BASIS OF DESIGN IS KAWNEER TRI-FAB 451T, SEE ALSO SPECIFICATION SECTION 08 43 16.
3. ALL INTERIOR STOREFRONT FRAMING BASIS OF DESIGN IS KAWNEER TRI-FAB 451, SEE ALSO SPECIFICATION SECTION 08 43 13.

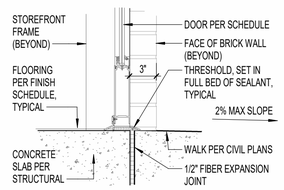
WINDOW NOTES

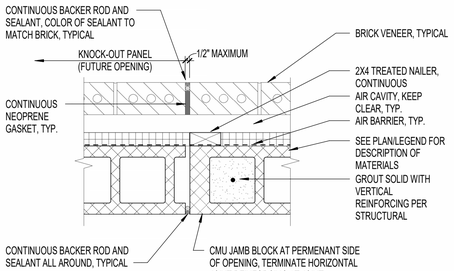
A. ALL EXTERIOR STOREFRONT GLAZING SHALL BE OUTSIDE GLAZED 1" INSULATING TINTED GLASS AS NOTED IN SCHEDULE, TYPICAL.
B. PROVIDE ALL NECESSARY FRAME ANCHORS AS REQUIRED FOR SPECIFIC INSTALLATIONS.
C. ALL GLAZING WITHIN 24" OF VERTICAL EDGE OF DOORS SHALL BE TEMPERED. TEMPERED GLAZING SHALL BE USED AS NOTED AND AS REQUIRED BY CODE.
D. ALL FRAMING SYSTEMS SHALL BE DESIGNED. ENGINEERED AND FABRICATED BY THE SYSTEM MANUFACTURER TO MEET ALL APPLICABLE CODES. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW PRIOR TO FABRICATION.
E. ALL FRAMING DIMENSIONS AS SHOWN ARE ROUGH OPENING DIMENSIONS. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR EXACT FINISH DIMENSION AT JOB SITE PRIOR TO FABRICATION.
F. HORIZONTAL LOUVER BLINDS SHALL BE FURNISHED AND INSTALLED ON ALL S2, S3, & S4 STOREFONT TYPES..



4 A6.2 SF SILL AT SIDEWALK

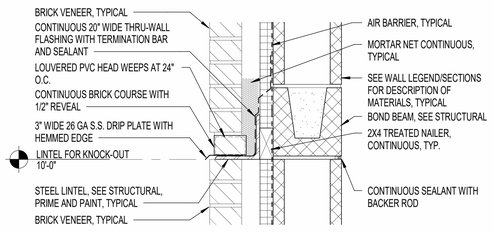
1 1/2" = 1'-0"





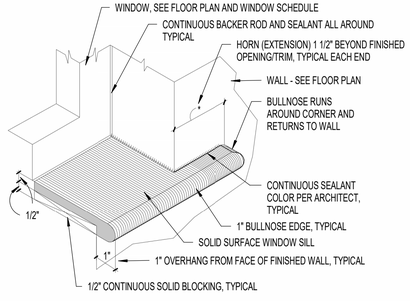
13 A6.2 JAMB - KNOCK-OUT PANEL

1 1/2" = 1'-0"



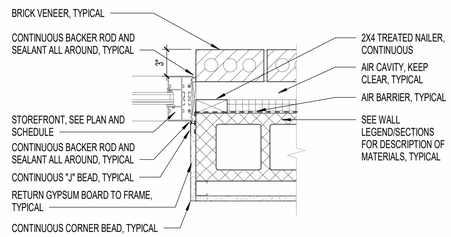
12 A6.2 LINTEL - KNOCK-OUT PANEL

1 1/2" = 1'-0"



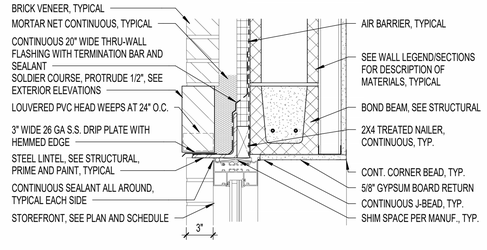
11 A6.2 TYP WINDOW SILL DETAIL

3" = 1'-0"



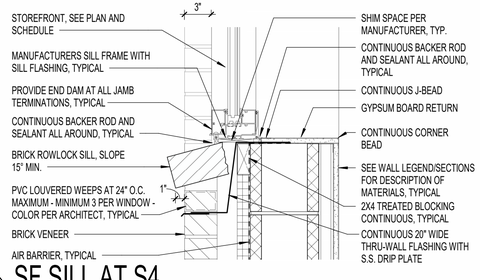
10 A6.2 SF JAMB AT BRICK - FURRING

1 1/2" = 1'-0"



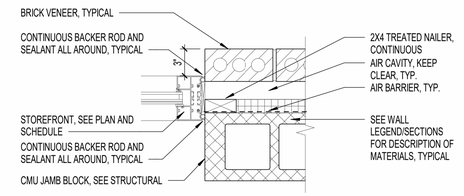
9 A6.2 SF HEAD AT S4

1 1/2" = 1'-0"



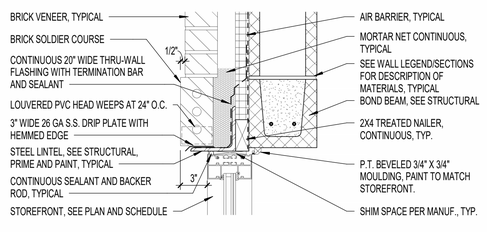
8 A6.2 SF SILL AT S4

1 1/2" = 1'-0"



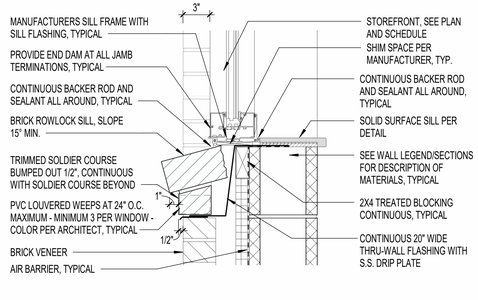
7 A6.2 SF JAMB AT BRICK - NO FURRING

1 1/2" = 1'-0"



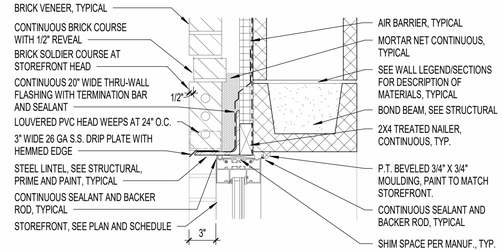
6 A6.2 SF HEAD AT WALL TYPE 2

1 1/2" = 1'-0"



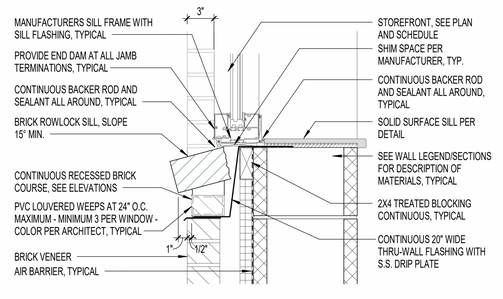
5 A6.2 SF SILL AT WALL TYPE 2

1 1/2" = 1'-0"



3 A6.2 SF EXT. THRESHOLD

1 1/2" = 1'-0"



2 A6.2 SF HEAD AT WALL TYPE 1

1 1/2" = 1'-0"

1 A6.2 SF SILL AT WALL TYPE 1

1 1/2" = 1'-0"

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OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION CERT NO. 50681 NORTH CAROLINA ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT 23801 NORTH CAROLINA ROCKY MOUNT, N.C. 09.12.24

BID SET

GENERAL NOTE:
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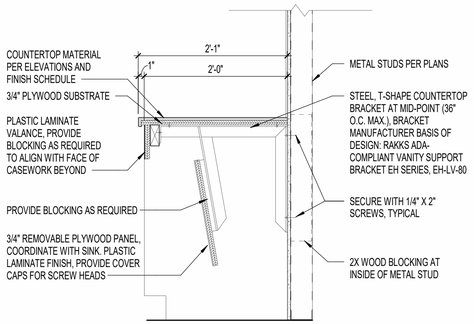
Revisions		
#	Description	Date

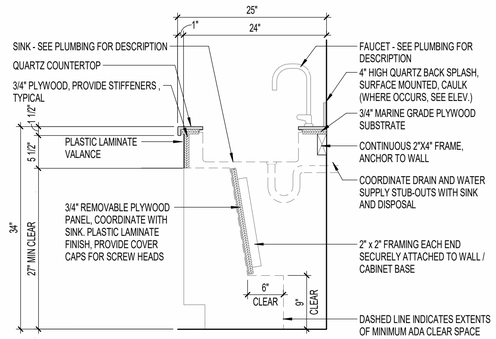
Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A6.2
Checked By: DG	

Sheet Title: WINDOW SCHEDULES & DETAILS



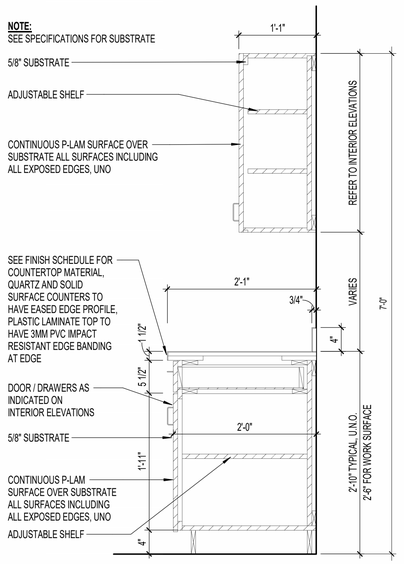
7 A7.1 ADA CABINET MID-POINT BRACKET

1" = 1'-0"



6 A7.1 ADA SINK CABINET

1" = 1'-0"



5 A7.1 CASEWORK SECTION, U.O.N.

1" = 1'-0"

CASEWORK GENERAL NOTES

A. PROVIDE PLASTIC LAMINATE FINISH ON ALL EXPOSED SURFACES INCLUDING DOOR AND DRAWER EDGES. COLOR AND PATTERN AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE.
B. PROVIDE FINISHED AS NOTED ON ALL COUNTER TOPS. COLOR AND PATTERN AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
C. PROVIDE MELAMINE FINISH ON ALL INTERIOR SURFACES AS SPECIFIED. COLOR AS SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
D. PROVIDE STANDARD "WIRE" DOOR AND DRAWER PULLS, TYPICAL.
E. PROVIDE CONCEALED HINGES FOR ALL DOORS, TYPICAL.
F. PROVIDE FULL EXTENSION SLIDES ON ALL DRAWERS.
G. PROVIDE 3/4" MELAMINE FINISH ADJUSTABLE SHELVING FOR ALL UPPER AND BASE CABINETS AS INDICATED, TYPICAL. PRE DRILL HOLES AT 1 1/4" O.C. AND PROVIDE METAL SHELF CLIPS.
H. PROVIDE 3/4" THICK DRAWER AND DOOR FACES, TYPICAL.
I. FIELD VERIFY ALL DIMENSIONS, SQUARE AND PLUMB OF WALLS TO ENSURE PROPER FIT OF ALL CABINETRY, TYPICAL.
J. SUBMIT SHOP DRAWINGS PER SPECIFICATIONS OF ALL CABINETRY AND RELATED ITEMS FOR REVIEW PRIOR TO FABRICATION, TYPICAL.
K. FURNISH AND INSTALL ALL BLOCKING AS REQUIRED FOR PROPER INSTALLATION OF ALL CABINETRY, COORDINATE INSTALLATION OF BLOCKING WITH CABINET SUPPLIER.
L. ALL APPLICANCES WILL BE FURNISHED BY THE OWNER AND INSTALLED BY THE CONTRACTOR. VERIFY APPLIANCE SIZES WITH MANUFACTURER'S CUT SHEETS. CUT SHEETS SHALL BE PROVIDED BY THE OWNER.

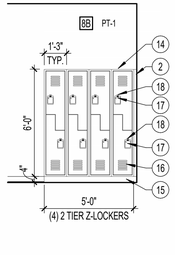
CASEWORK LEGEND

X

MARK	DESCRIPTION
B1	2'-0" DEEP BASE CABINET; ONE HINGED DOOR, ONE DRAWER, AND ONE ADJUSTABLE SHELF. HEIGHT/WIDTH VARIES.
B2	2'-0" DEEP BASE CABINET; TWO HINGED DOORS, TWO DRAWERS, AND ONE ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
B3	2'-0" DEEP SINK BASE CABINET; TWO HINGED DOORS AND ONE FALSE DRAWER FRONT. HEIGHT/WIDTH VARIES.
B4	2'-0" DEEP X 3'-0" X 3'-0" EASY REACH CORNER BASE CABINET; ONE SHELF. HEIGHT VARIES.
B5	ADA SINK CABINET PER DETAIL 6/A7.1
BEP	BASE END PANEL / RETURN PANEL
BF	BASE FILLER / SCRIBE
W1	1'-1" DEEP WALL CABINET; ONE HINGED DOOR & TWO ADJUSTABLE SHELVES. HEIGHT/WIDTH VARIES.
W2	1'-1" DEEP WALL CABINET; TWO HINGED DOORS & TWO ADJUSTABLE SHELF. PROVIDE FIXED VERTICAL DIVIDER IN UNITS MORE THAN 3'-0" WIDE. HEIGHT/WIDTH VARIES.
W3	1'-1" DEEP x 2'-0" x 2'-0" EASY REACH CORNER WALL UNIT; TWO ADJUSTABLE SHELVES. HEIGHT/WIDTH VARIES.
WF	WALL FILLER / SCRIBE

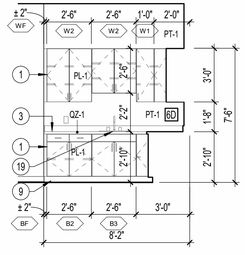
KEYNOTES - INTERIOR ELEVATIONS

1. CASEWORK, SEE LEGEND THIS SHEET.
2. FILLER PANEL AS REQUIRED.
3. COUNTERTOP WITH 4" BACKSPLASH AND SIDESPLASH.
3. COUNTERTOP WITH 4" BACKSPLASH.
4. COUNTER PER SCHEDULE, NO BACKSPLASH.
5. ADA COUNTER SUPPORT BRACKET PER DETAIL 7/A7.1.
6. TILE BACKSPLASH, PROVIDE BACKER BOARD IN-LIEU OF GYPSUM BOARD WHERE OCCURS.
7. FINISH EDGE OF WALL TILE WITH METAL TRIM.
8. WALL TILE TO ALIGN WITH TOP OF WALL CABINETS. FINISH EDGE WITH METAL TRIM.
9. TOP SET BASE PER FINISH SCHEDULE AT TOE KICK.
10. EXHAUST HOOD, O.S.C.I., PROVIDE ADA CONTROLS AT FACE OF APRON, PROVIDE S.S. METAL STROUD FROM TOP OF EXHAUST VENT TO CEILING ABOVE.
11. 34" HIGH ADA SLIDE-IN RANGE, O.S.C.I.
12. REFRIGERATOR WITH ICE MAKER, O.S.C.I.
13. UNDERCOUNTER REFRIGERATOR, O.S.C.I.
14. 15" WIDE X 18" DEEP Z-LOCKER, TYP.
15. CONTINOUS 'ZEE' LOCKER BASE.
16. LOUVER, TYP.
17. RECESSED HANDLE AND PAD LOCK HASP, TYP.
18. NUMBER PLATE, TYP.
19. UNDERMOUNT SINK, SEE PLUMBING.



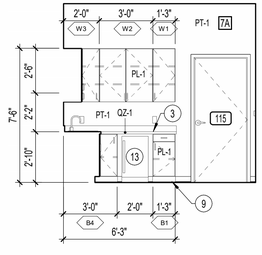
4 A7.1 117 - DISPATCH - N

1/4" = 1'-0"



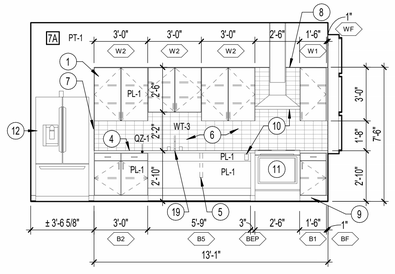
3 A7.1 117 - DISPATCH - E

1/4" = 1'-0"



2 A7.1 117 - DISPATCH - S

1/4" = 1'-0"



1 A7.1 107 - BREAKROOM

1/4" = 1'-0"

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OAKLEY COLLIER ARCHITECTS, P.A. REGISTERED ARCHITECTURAL CORPORATION NORTH CAROLINA CERT NO. 50681 ROCKY MOUNT, NC

BID SET

TIMOTHY D. OAKLEY REGISTERED ARCHITECT NORTH CAROLINA ROCKY MOUNT, NC 09.12.24

BID SET

GENERAL NOTE:
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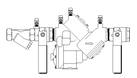
Revisions #	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JS/AR	Sheet No.: A7.1
Checked By: DG	

Sheet Title: CASEWORK ELEVATIONS

PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
BP-1	BACKFLOW PREVENTOR	WATTS	LF909QTM1-S	WILKINS	975XL2-S	FEBCO	LF860	2"	-	-
	LEAD FREE, REDUCED PRESSURE ZONE WITH BALL VALVES AND STRAINER. MOUNT 24" ABOVE FINISHED FLOOR.									
CO-1	FLOOR CLEANOUT	ZURN	CO2449	MIFAB		JR SMITH		-	-	SEE PLUMB. DRAWINGS
	PVC CLEANOUT WITH AND ADJUSTABLE PVC RISER, NICKEL BRONZE FRAME AND COVER, AND AN ABS TAPER THREADED PLUG. CLEANOUT TO BE GAS AND WATERTIGHT.									
CO-2	EXTERIOR CLEANOUT	ZURN	Z-1449-BP	WATTS	CO-380-34B	JR SMITH	4283	-	-	SEE PLUMB. DRAWINGS
	CLEANOUT FERRULE WITH CAST IRON BODY, WITH GAS AND WATERTIGHT BRONZE PLUG, MOUNT IN CONCRETE.									
CO-3	WALL CLEANOUT	ZURN	CO-2413-PVC	MIFAB		JR SMITH		-	-	SEE PLUMB. DRAWINGS
	ACCESS COVER	ZURN	CO-2530-SS	MIFAB		JR SMITH				
	PVC CLEANOUT BODY AND PLUG TO BE GAS AND WATER TIGHT. PLUG TO HAVE A BRASS THREADED INSERT TO RECEIVE SECURING SCREW FOR STAINLESS STEEL ROUND ACCESS COVER.									
EWC-1	WATER COOLER	OASIS	P8SBFSL	ELKAY	LZSTL8WS	HALSEY TAYLOR	HTHB-HACDBLPV-WF	1/2"	-	2"
	PROVIDE WITH FRONT AND SIDE CONTROLS, SHUT-OFF VALVE, CARRIER, AND TRAP. PROVIDE STAINLESS STEEL FINISH. PROVIDE WITH BOTTLE FILLER.									
FD-1	FLOOR DRAIN	ZURN	ZN415S	WATTS	FD-100-M	MIFAB	F11000-1	1/2"	-	3"
	FLOOR DRAIN TO HAVE A 3" WASTE BOTTOM OUTLET, CAST IRON BODY WITH ADJUSTABLE COLLAR, POLISHED 6" x 6" NICKEL BRONZE SQUARE HEELPROOF STRAINER, AND 1/2" TRAP PRIMER CONNECTION.									
H-1	ANTIFREEZE HOSE BIBB	WOODFORD	65	WATTS	HY-420	MIFAB	MHY-15	3/4"	-	-
	ANTIFREEZE HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB. MOUNT 12" ABOVE FINISHED GRADE.									
H-2	HOSE BIBB	WOODFORD	24	MIFAB	MHY-9000-NPB	ZURN	195XL	3/4"	-	-
	HOSE BIBB SHALL HAVE AUTOMATIC DRAINING WITH ANTI-SIPHON VACUUM BREAKER. 3/4" INLET AND OUTLET. EXTERIOR FINISH TO BE CHROME. PROVIDE WITH LOOSE TEE KEY FOR EACH HOSE BIBB.									
IM-1	ICE MAKER BOX	OATEY CO.	38574	GUY GRAY	AB9700	SIOUX CHIEF	696-G1000MF	1/2"	-	-
	PLASTIC ICE MAKER BOX WITH 1/4 TURN BRASS BALL VALVE - COPPER SWEAT AND SUPPLY TUBE TO REFRIGERATOR. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.									
L-1	LAVATORY	KOHLER	K-2861-0	AMERICAN STANDARD	0355.012	ZURN	Z5834			
	FAUCET	DELTA	523LF-HGMHDF	CHICAGO FAUCETS	2200-4	MOEN	8470			
	TRAP	McGUIRE	8902	DEARBORN BRASS	702-1	KOHLER	K-8999			2"
	SUPPLY	McGUIRE	158LK	BRASS CRAFT	R1912AC	KOHLER	K-7605-P-CP	1/2"	1/2"	
	WALL HUNG LAVATORY SHALL BE MADE OF CAST IRON WITH A WHITE FINISH, HAVE 4" CENTERS, AN OVERFLOW. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT. DECK MOUNTED FAUCET SHALL BE CHROME FINISH, SINGLE LEVER, 4" CENTERS, WITH 3/8" COPPER SUPPLY TUBE INLETS, AND PROVIDED WITH AN AERATOR. RIGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS, FULL TURN BRASS STEM, REDUCER, AND FLANGE. INLET SHALL BE 3/8" IPS. OUTLET SHALL BE 3/8" IPS. P-TRAP SHALL BE CHROME PLATED CAST BRASS BODY WITH CLEANOUT, CAST BRASS ELBOW AND CAST BRASS SLIP NUT, AND FLANGE. PROVIDE WITH OFFSET DRAIN, TRUEBRO LAV SHIELD, AND WATER TEMPERATURE LIMITING DEVICE THAT CONFORMS TO ASSE 1070 OR CSA B125.3.									

PLUMBING SCHEDULE NOTES AND LEGEND:

1. THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
2. SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
3. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
4. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.

ADA COMPLIANT

ELECTRICAL POWER

GAS FIRED

SEISMIC REQUIREMENTS

SEISMIC AND WIND REQUIREMENTS FOR MECHANICAL SYSTEMS (PER ASCE 7-05)

1. ALL ROOF CURBS/ROOF RAILS INDLUDING THEIR ATTACHMENT TO THE EQUIPMENT AND STRUCTURE MUST BE EVALUATED FOR WIND LOADING. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND AND SEISMIC MUST BE USED.

2. SEE SEISMIC INFORMATION CONTAINED ON STRUCTURAL DRAWING FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY.

3. SEE TABLE BELOW FOR SPECIFIC COMPONENT RESTRAINT REQUIREMENTS.

4. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTRERED DESIGN PROFESSIONAL. CONTRACTOR TO FURNISH AND INSTALL ALL SEISMIC BRACING AS NOTE HEREIN. CONTRACTOR SHALL FURNISH DESIGNN CALCULATIONS AND SUBMITTAL FOR REVIEW.

SEISMIC DESIGNN CATEGORY C, COMPONENT IMPORTANCE FACTOR 1.5

COMPONENT	RESTRAINT REQUIREMENT	ASCE 7-05 REFERENCE
SUSPENDED EQUIPMENT INLINE WITH DUCT/PIPE	RESTRAIN IF > 75 LBS (SEE NOTE 3,4)	13.6.7
SUSPENDED EQUIPMENT NOT INLINE WITH DUCT/PIPE	RESTRAIN ALL	13.6.3
DUCTILE PIPING	PIPE GREATER THAN 2" (SEE NOTE 5,6)	13.6.8
SUSPENDED DUCTWORK	DUCTWORK GREATER THAN 6 SQFT OR LARGER THAN 28" IN DIAMETER (SEE NOTE 6)	13.6.7
COMPONENT CERTIFICATION (NOTE 7)	REQUIRED	13.2.2

NOTES:

1. EQUIPMENT GREATER THAN 20 LBS OR LESS IS EXEMPT IF FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF COMPONENT WEIGHS LESS THAN 400 LBS OR IS AT 4 FEET OR LESS ABOVE FINISHED FLOOR AND HAS FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. ITEMS WEIGHING LESS THAN 75 LBS DO NOT NEED RESTRAINT IF THE ATTACHED DUCTWORK/PIPING IS RESTRAINED AND POSITIVELY ATTACHED TO THE EQUIPMENT.
4. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
5. ALL NON-DUCTILE PIPING (PLASTIC, CAST IRON, CERAMIC) MUST BE RESTRAINED.
6. RESTRAINT IS NOT REQUIRED IF SUSPENDED 12: OR LESS FROM THE STRUCTURE AND THE HANGERS ARE DETAILED TO AVOID SIGNIFICANT BENDING OF THE HANGERS AND THEIR ATTACHMENTS. PROVISIONS ARE MADE FOR PIPING TO ACCOMODATE EXPECTED DEFLECTIONS.
7. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT THE TIME OF SUBMITTAL FOR REVIEW BY THE ENGINEER OF RECORD.

SITE SPECIFIC REQUIREMENTS FOR PAMLICO COUNTY EOC/911 DISPATCH

ALL SPRINKLER PIPING LARGER THAN 2" SHALL BE RESTRAINED IN ACCORDANCE WITH NFPA 13.

ALL DOMESTIC WATER, SEWER VENT AND NATURAL GAS PIPING LARGER THAN 2" SHALL BE RESTRAINED WITH CABLES AT 45 DEGREE ANGLES AND SECURED TO STRUCTURE. PIPING INSTALLED WITHIN 12" OF STRUCTURE SHALL BE EXEMPT.

ALL GAS FURNACES, INLINE FANS, HEATERS TO BE RESTRAINED.

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES.
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE PLUMBING CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL OF HIS WORK WITH ALL OTHER CONTRACTORS.
4. THE PLUMBING PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCE'S SHALL BE BROUGHT TO THE ENGINEERS ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL OPENINGS REQUIRED FOR THE PLUMBING WORK. THE PATCHING SHALL BE BY THE PLUMBING CONTRACTOR AND FINISHING BY GENERAL CONTRACTOR.
7. ALL PIPE, FITTINGS, FIXTURES, AND SOLDER TO BE LEAD FREE.
8. WATER PIPING BELOW GRADE SHALL BE TYPE "K" COPPER (NO JOINTS BELOW GRADE) AND ABOVE GRADE TYPE "L" COPPER, SUPPORTED AS REQUIRED AND SHALL BE HYDROSTATICALLY TESTED FOR ONE HOUR AT 150 PSI. TEST TO COMPLY WITH ALL EPA STANDARDS. THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE DISINFECTED PRIOR TO PLACING IN SERVICE.
9. PROVIDE COPPER STUB - OUTS AT ALL FIXTURE SUPPLIES
10. WATER PIPING LOCATED ABOVE CEILINGS AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE OF CEILING INSULATION (UNDERSIDE) AND WALL INSULATION (INSIDE).
11. ALL COLD AND HOT WATER PIPING SHALL BE INSULATED. INSULATE WASTE PIPING AS DESIGNATED ON PLUMBING DRAWINGS. INSULATION SHALL BE 1" FIBERGLASS. EXPOSED PIPING TO BE WRAPPED WITH ALUMINUM JACKET.
12. DO NOT SUPPORT PIPING FROM BAR JOIST BRIDGING AND/OR ROOF DECK.
13. WATER SHUT - OFF VALVES ABOVE FINISHED CEILING ARE TO BE FREE FROM OBSTRUCTIONS SUCH AS DUCTWORK, LIGHTS, WIRING AND OTHER PIPING SO AS TO PROVIDE EASY ACCESS. MOUNT NO MORE THAN 2'-0" ABOVE FINISHED CEILING.
14. IF THE WATER PRESSURE EXCEEDS 80 PSI A PRESSURE REDUCING VALVE SHALL BE INSTALLED WHERE THE WATER ENTERS THE BUILDING.
15. PLUMBING CONTRACTOR SHALL PROVIDE A DIELECTRIC UNION WHEN CONNECTING DISSIMILAR MATERIAL.
16. WATER HEATERS SHALL HAVE AND EFFICIENCY MEETING REQUIREMENTS OF THE NORTH CAROLINA BUILDING CODE.
17. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL AND CONTROL CONNECTIONS TO THE EQUIPMENT FURNISHED UNDER HIS CONTRACT.
18. SANITARY SEWER AND VENT PIPING SHALL BE SCHEDULE 40 PVC. CELLULAR CORE (FOAM CORE) IS NOT ALLOWED. SANITARY SEWER AND VENT PIPING SHALL BE GAS AND AIR TIGHT.
19. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION OF ANY WORK.
20. THE PLUMBING CONTRACTOR SHALL REVIEW ALL UTILITY SITE PLANS FOR WORK BY OTHERS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE HIS WORK WITH WORK BY OTHERS AND AVOID ALL CONFLICTS.
21. LOCATIONS OF UTILITIES (WASTE AND WATER PIPING, ETC...) PROVIDED BY OTHERS, THAT ARE TO BE CONNECTED TO ARE ASSUMED. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO VERIFY THESE LOCATIONS AND MAKE FINAL CONNECTIONS AS REQUIRED.
22. VERIFY THE LOCATION OF ALL EQUIPMENT SUPPLIED BY OTHERS.
23. PROVIDE VACUUM BREAKERS ON ALL EQUIPMENT DIRECTLY CONNECTED TO THE WATER SYSTEM.
24. ALL VENT PIPING THROUGH THE ROOF SHALL BE A MINIMUM OF 15'-0" FROM ALL MAKE-UP AIR INLETS OR A MINIMUM OF 2'-0" ABOVE THE TOP OF ALL MAKE-UP AIR INLETS. VENTS THROUGH ROOF ARE TO BE ON REAR OF BUILDING.
25. SEE ARCHITECTURAL DRAWINGS FOR PLUMBING MINIMUM FACILITY CALCULATIONS.
26. THE PLUMBING CONTRACTOR SHALL VERIFY BUILDING FLOOR ELEVATION IS ABOVE MANHOLE RIM ELEVATION OR PROVIDE A BACKWATER VALVE AS REQUIRED.
27. THE PLUMBING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
CW	COLD WATER PIPING
	WATER PIPING DIRECTION OF FLOW
HW	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
	BALL VALVE
	CHECK VALVE
	WATER PIPING TURNED DOWN
	WATER PIPING TURNED UP
	PIPE SIDE CONNECTION
	TRAP PRIMER
SS	SANITARY SEWER / WASTE PIPING
V	VENT PIPING
	VENT PIPE UP
	NON FREEZE WALL HYDRANT
	HOSE BIBB
	PLUMBING FIXTURE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR
	PLUMBING FIXTURE PROVIDED BY OTHERS AND INSTALLED BY PLUMBING CONTRACTOR
	FLOOR CLEANOUT
	WALL CLEANOUT
	FLOOR DRAIN

PLUMBING LOAD SUMMARY

SANITARY SEWER DEMAND FU	WATER DEMAND FU	WATER DEMAND GPM
27.5	57.3	54.0

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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA PROFESSIONAL CORPORATION
ATLANTEC ENGINEERS PA No. C-961

BID SET

Docusigned by: Kristen Hall NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 0049438 SEAL 049754 ENGINEERING INCORPORATED HARRISON

9/12/24

BID SET

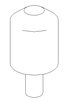
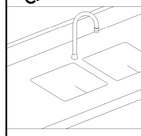
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JHH	Sheet No.: P0.1
Checked By: JHH	

Sheet Title
PLUMBING NOTES, LEGEND, AND FIXTURE SCHEDULE

PLUMBING FIXTURE SCHEDULE

SYMBOL / IMAGE	DESCRIPTION	3 - EQUALS						PIPING CONNECTIONS		
		MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	MANUFACTURER	MODEL NUMBER	COLD WATER	HOT WATER	SANITARY SEWER
MR-1	MOP RECEPTOR	STERN WILLIAMS	SB-900	FIAT	TSB100					3"
	FAUCET	STERN WILLIAMS	T-10-VB	CHICAGO	897RCF	MOEN	8124	1/2"	1/2"	
	HOSE	STERN WILLIAMS	T-35	FIAT	832AA					
	MOP BRACKET	STERN WILLIAMS	T-40	FIAT	889CC					
	MOP RECEPTOR SHALL BE 24" x 24" x 12" DEEP WITH ONE PIECE STAINLESS STEEL CAP, NO FLANGES.									
P-1	RECIRCULATING PUMP	B & G	PL36							
	RECIRCULATING PUMP SHALL BE 1/6 HORSEPOWER, 120 VOLT, SINGLE PHASE. PROVIDE PUMP WITH MOUNTING BRACKET, TIMER, AQUASTAT AND DISCONNECT, DISCONNECT WIRING BY LICENSED ELECTRICAL CONTRACTOR.									
SA-1	SHOCK ABSORBER	JOSAM	75000	ZURN	Z1700	WADE	4480			
	SHOCK ABSORBERS SHALL HAVE A STAINLESS STEEL CASING. FLEXIBLE MECHANICAL BELLOWS. PRESSURIZED INERT GAS CHAMBER AND CERTIFICATION STAMP AS CONFORMING TO STANDARD PDI WH-201 OF THE PLUMBING AND DRAINAGE INSTITUTE.									
SH-1	SHOWER	AMERICAN STANDARD	38x38-A8009D-FCO	DELTA		KOHLER				2"
	VALVE AND HEAD	SYMMONS	96-500-B30-L-V	DELTA	T13H332/R10700UNWS	MOEN	8342	1/2"	1/2"	
	PROVIDE WITH DRAIN. VALVE TO BE ANTI-SCALD PER NORTH CAROLINA BUILDING CODE. PROVIDE WITH SEAT, GRAB BARS, AND CURTAIN OR DOOR AS REQUIRED PER ADA REQUIREMENTS.									
S-1	SINK	KOHLER	K-3894-NA	ELKAY	ELUHAD211555PD	AKICON	AK231809R10F			
	FAUCET	DELTA	711-WFHDF	CHICAGO FAUCETS	2302-CP	T&S BRASS	B-2741	1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K-8999	DEARBORN BRASS	702-1			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN BRASS	L7			
	SINK IS TO BE 18 GAUGE STAINLESS STEEL UNDER MOUNT TYPE. DECK MOUNTED GOOSENECK FAUCET SHALL BE CHROME FINISHED, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIDGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH McGUIRE PROWRAP INSULATOR.									
S-2	2-COMPARTMENT SINK	KOHLER	K-3996-4	ELKAY	ECTSRAD33226TBG	JUST	UDADA1632A45-J			
	FAUCET	DELTA	711-WFHDF	CHICAGO FAUCETS	2302-CP	T&S BRASS	B-2741	1/2"	1/2"	
	TRAP	McGUIRE	8902	KOHLER	K8999	DEARBORN BRASS	702-1			2"
	SUPPLY	McGUIRE	170	KOHLER	K-76-6-P	BRASSCRAFT	CS400AC			
	STRAINER	JUST	JB-99	ELKAY	LK-99	DEARBORN	L7			
	SINK IS TO BE 18 GAUGE STAINLESS STEEL UNDER MOUNT TYPE. DECK MOUNTED GOOSENECK FAUCET, WITH 1/2" INLET AND PROVIDED WITH AN AERATOR. RIDGID SUPPLY KIT SHALL INCLUDE CHROME PLATED BRASS STOPS WITH THREADED CONNECTIONS AND FLANGE. INLET AND OUTLET SHALL BE 3/8" IPS. PROVIDE WITH McGUIRE PROWRAP INSULATOR. PROVIDE WITH DISPOSAL IF REQUIRED BY ARCHITECT.									
TP-1	TRAP PRIMER	MIFAB	MR-500					1/2"	-	-
	PRESSURE DROP ACTIVATED BRASS TRAP SEAL PRIMER, WITH INLET OPENING OF 1/2" MALE N.P.T. AND OUTLET OPENING OF FEMALE 1/2" N.P.T.. SERVES UP TO 6 FLOOR DRAIN TRAPS.									
WC-1	WATER CLOSET	KOHLER	K-96057-0	SLOAN	ST-2029	AMERICAN STANDARD	2305.100			4"
	SEAT	BEMIS	1655SSC	KOHLER	K-4670-C-0	CHURCH	9500C			
	VALVE	SLOAN	111	DELANY	F402-1	ZURN	Z6000-WS1	1"	-	
	TOILET SHALL BE MADE OF VITREOUS CHINA WITH A WHITE FINISH AND A 12" ROUGH-IN AND 1 1/2" TOP SPUD. SEAT SHALL BE EXTRA HEAVY WEIGHT SOLID PLASTIC WITH OPEN FRONT LESS COVER FOR ELONGATED BOWL. EXPOSED CHROME PLATED FLUSH VALVE WITH 1 1/2" CHROME PLATED SPUD COUPLING AND FLANGE, THE FLUSH VALVE MECHANISM SHALL BE PLACED ON THE WIDE SIDE OF THE STALL.									
WH-1	WATER HEATER	STATE INDUSTRIES	SHE50 76NE					3/4"	3/4"	
	GAS FIRED WATER HEATER SHALL HAVE AN 50 GALLON STORAGE CAPACITY WITH AN INPUT OF 76 MBH AND A RECOVERY OF 86 GPH AT A 100° RISE. PROVIDE WITH EXPANSION TANK.									

PLUMBING SCHEDULE NOTES AND LEGEND:

1. THE PLUMBING CONTRACTOR MAY SUBSTITUTE FIXTURES WITH OWNERS' APPROVAL.
2. SUBMIT CUT SHEETS FOR ALL PROPOSED FIXTURES TO ARCHITECT PRIOR TO BIDDING.
3. PROVIDE VACUUM BREAKER ON ALL EQUIPMENT REQUIRING PLUMBING.
4. REFER TO MANUFACTURERS WEB SITE FOR CUT SHEETS AND DATA ON THE FIXTURES AND APPURTENANCES USED IN THIS SCHEDULE.

ADA COMPLIANT

ELECTRICAL POWER

GAS FIRED

OAKLEY COLLIER ARCHITECTS
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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA ATLANTEC ENGINEERS PA No. C-961 CORPORATION SEAL

BID SET

DocuSigned by: Harrison Holt
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049754 HARRISON HOLT

9/12/24

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

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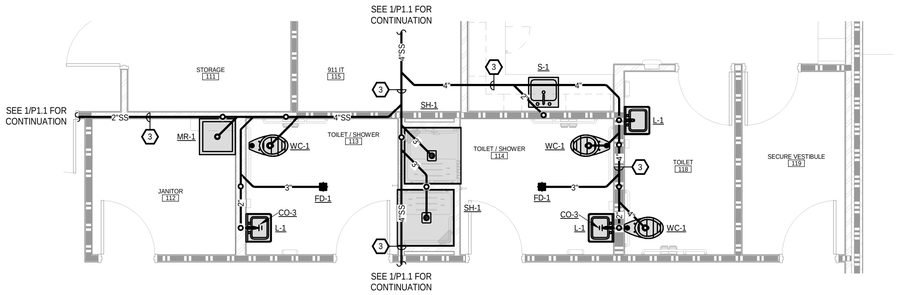
Sheet Title: PLUMBING FIXTURE SCHEDULE



2/P1.1 ENLARGED WASTE PIPING PLAN

1/4" = 1'-0"

4' 2' 0' 2' 4' 8'

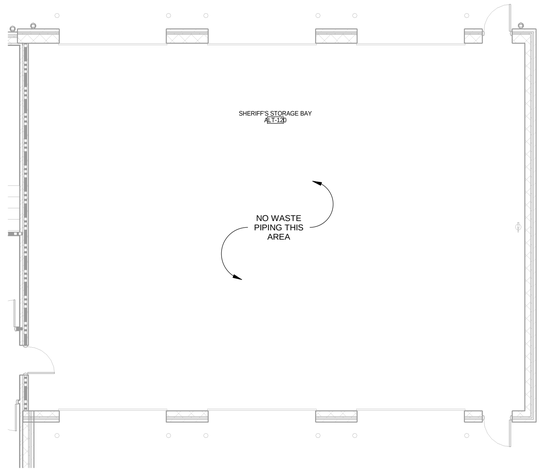
RATED WALL LEGEND

2 HOUR RATED WALL

1 HOUR RATED WALL

KEY NOTES P1.1

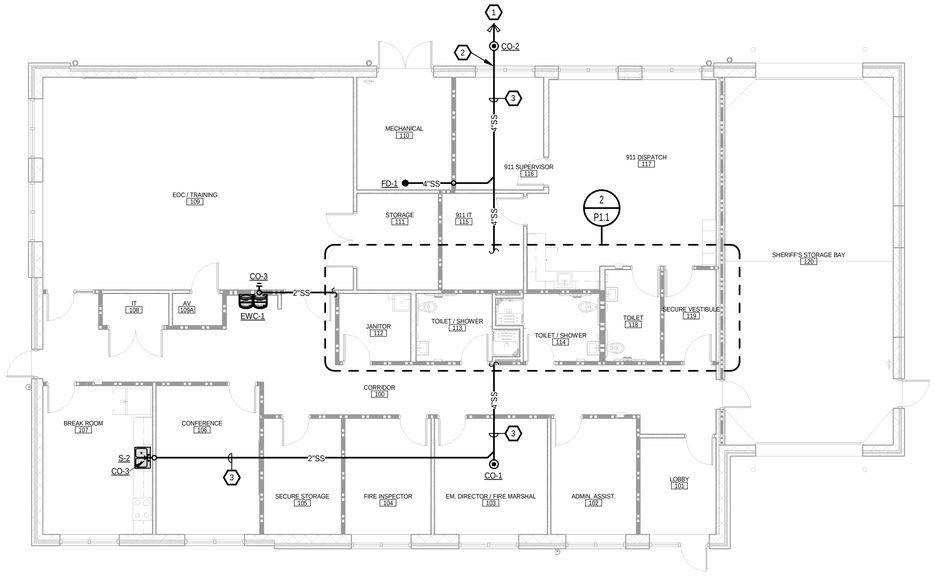
1	4" SANITARY SEWER PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK EXTENDS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
2	INVERT ELEVATION TO BE 1.28' BELOW FINISHED FLOOR.
3	SANITARY SEWER PIPING BELOW FINISHED FLOOR.



3/P1.1 ALT BID G-1-WASTE PIPING PLAN

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'



1/P1.1 WASTE PIPING PLAN

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'

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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

ATLANTEC ENGINEERS PA No. C-961 NORTH CAROLINA CORPORATION SEAL

BID SET

DocuSigned by: Jonathan H. Harrison NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049754 HARRISON, JONATHAN HOLT

9/12/24

BID SET

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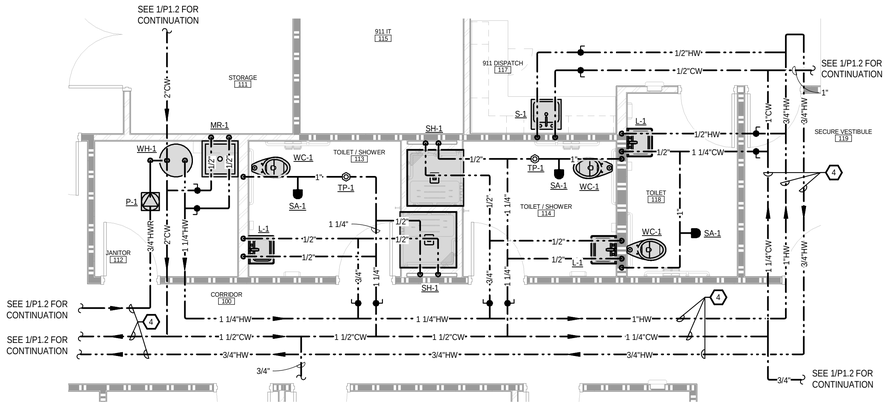
Sheet Title: WASTE PIPING PLAN



2 / P1.2 ENLARGED WATER PIPING PLAN

1/4" = 1'-0"

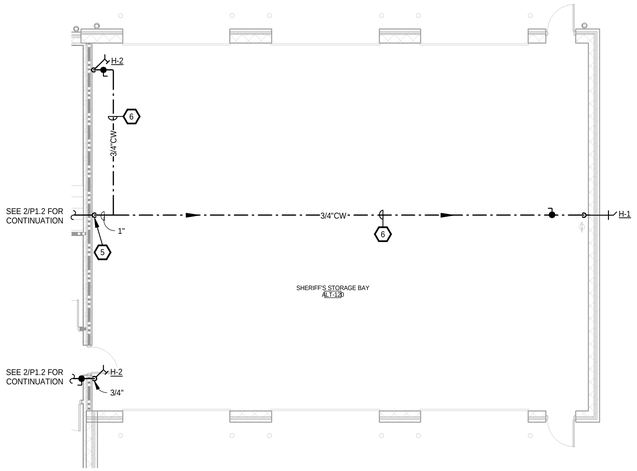
4' 2' 0' 2' 4' 8'

RATED WALL LEGEND

	2 HOUR RATED WALL
	1 HOUR RATED WALL

KEY NOTES P1.2

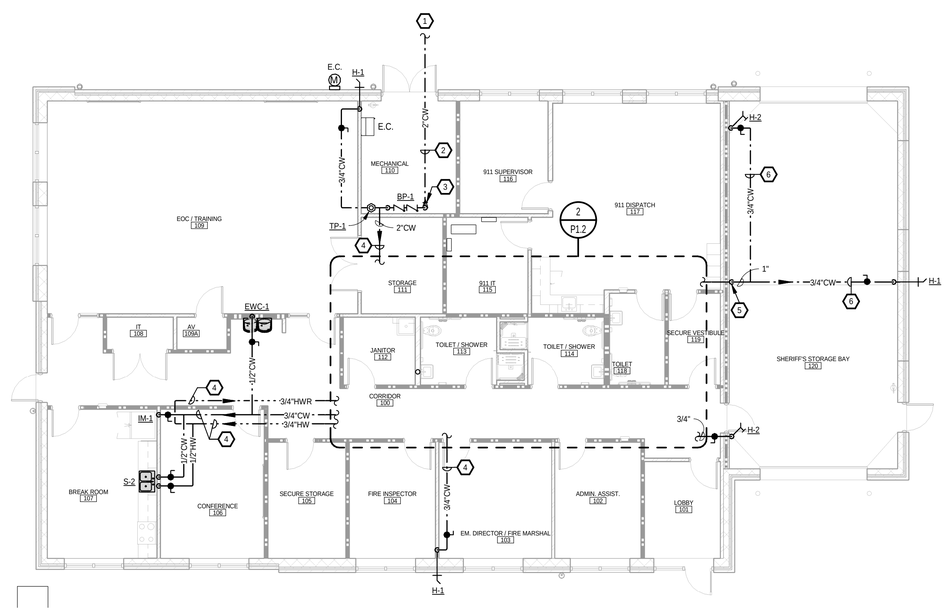
1	2" COLD WATER PIPE TO BE LOCATED BELOW FINISHED GRADE. PLUMBING CONTRACTOR'S WORK BEGINS 5'-0" OUTSIDE BUILDING. SEE SITE PLAN FOR CONTINUATION.
2	COLD WATER PIPING ROUTED BELOW FINISHED FLOOR.
3	COLD WATER PIPING TO RISE ABOVE FINISHED FLOOR WITH MAIN SHUTOFF VALVE.
4	WATER PIPING ABOVE FINISHED CEILING. COORDINATE LOCATION WITH MECHANICAL AND ELECTRICAL CONTRACTOR'S.
5	1" COLD WATER PIPING RISE TO BOTTOM OF STRUCTURE.
6	COLD WATER PIPING ROUTED TIGHT TO BOTTOM OF STRUCTURE.



3 / P1.2 ALT BID G-1-WATER PIPING PLAN

1/8" = 1'-0"

8' 4' 0' 4' 8' 16'



1 / P1.2 WATER PIPING PLAN

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EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA ATLANTEC ENGINEERS PA No. C-961 NATIONAL CORPORATION

BID SET

DocuSigned by: Matthew John Harrison PROFESSIONAL ENGINEER SEAL 049754 NORTH CAROLINA MATTHEW JOHN HARRISON MOTT

9/12/24

BID SET

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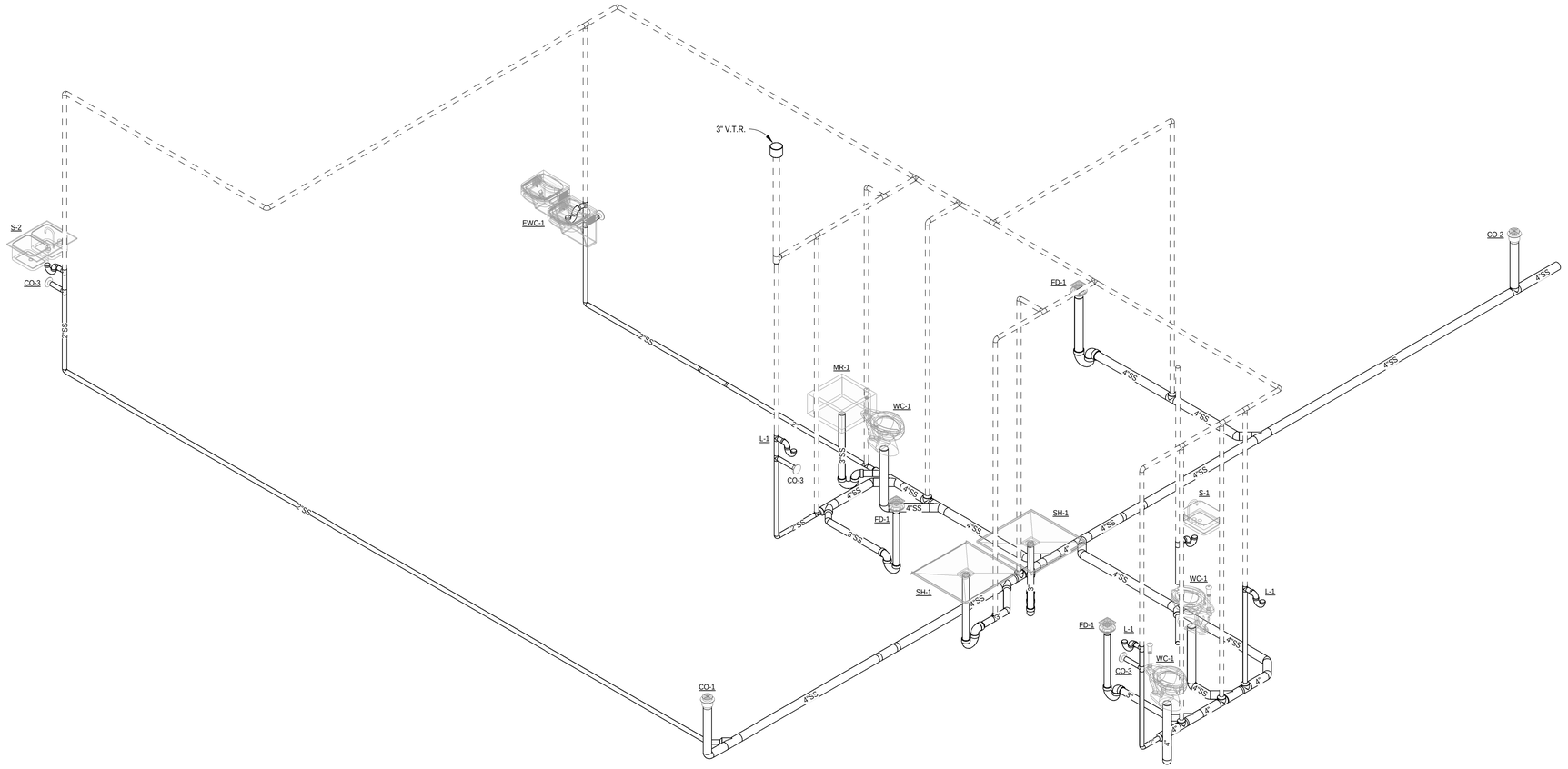
Sheet Title: WATER PIPING PLAN

NOTE:

ALL VENT PIPING IS TO BE 2" UNLESS NOTED OTHERWISE.



1 P2.1 WASTE PIPING RISER
N.T.S.

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252-937-2500
305 W. Martin Street, Raleigh, NC 27601

ATLANTEC ENGINEERS, PA
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
(919) 571-1111

1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-3336

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA ENGINEERING CORPORATION ATLANTEC ENGINEERS PA No. C-961 PROFESSIONAL CORPORATION

BID SET

DocuSigned by: Harrison Hill NORTH CAROLINA PROFESSIONAL SEAL 049754 ENGINEER HARRISON HILL

9/12/24

BID SET

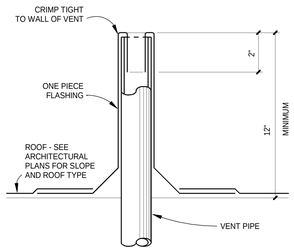
GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions

#	Description	Date

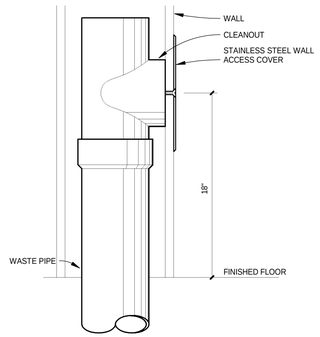
Date	Project No.
09.12.24	24017
Drawn By: JHH	Sheet No.: P2.1
Checked By: JHH	

Sheet Title: WASTE PIPING RISER



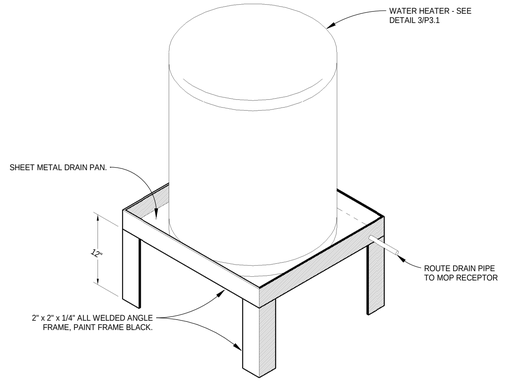
10 P3.1 VENT THROUGH ROOF DETAIL

NOT TO SCALE



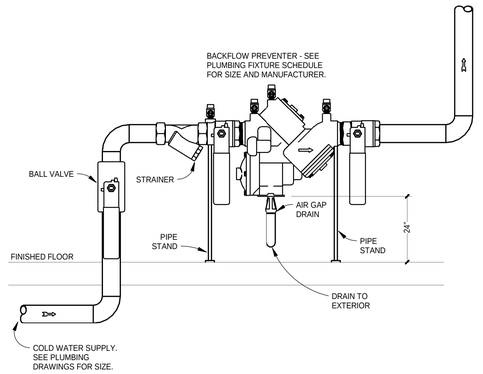
7 P3.1 WALL CLEANOUT DETAIL

NOT TO SCALE



4 P3.1 WATER HEATER MOUNTING DETAIL

NOT TO SCALE



1 P3.1 BACKFLOW PREVENTOR DETAIL

NOT TO SCALE

11 P3.1 ICE MAKER BOX DETAIL

NOT TO SCALE

8 P3.1 FLOOR CLEANOUT DETAIL

NOT TO SCALE

5 P3.1 TRAP PRIMER DETAIL

NOT TO SCALE

2 P3.1 TYPICAL WIRING DETAIL

NOT TO SCALE

12 P3.1 EXTERIOR HOSE BIBB DETAIL

NOT TO SCALE

9 P3.1 EXTERIOR CLEANOUT DETAIL

NOT TO SCALE

6 P3.1 WATER CLOSET DETAIL

NOT TO SCALE

3 P3.1 WATER HEATER DETAIL

NOT TO SCALE

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9/12/24

GENERAL NOTE:
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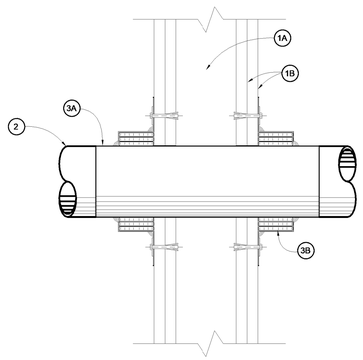
Revisions		
#	Description	Date

Date 09.12.24	Project No. 24017
Drawn By JHH	Sheet No. P3.1
Checked By JHH	

Sheet Title
PLUMBING DETAILS

SYSTEM NO. WL2073

F RATING - 1 AND 2 HOUR
T RATING - 0, 1 AND 2 HOUR



1 WALL ASSEMBLY--THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:

1A STUDS--WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.

1B WALLBOARD, GYPSUM*--THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS REQUIRED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. DIAM OF OPENING SHALL BE A MAX OF 1/8 IN. LARGER THAN THE OUTSIDE DIAM OF NOM 2 IN. DIAM (AND SMALLER) NONMETALLIC PIPES OR CONDUITS (ITEM 2) AND A MAX OF 1/2 IN. LARGER THAN THE OUTSIDE DIAM OF NOM 2-1/2 IN. DIAM (AND LARGER) NONMETALLIC PIPES OR CONDUITS. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

2 THROUGH PENETRANTS--ONE NONMETALLIC PIPE OR CONDUIT TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF NONMETALLIC PIPES OR CONDUITS MAY BE USED:

2A POLYVINYL CHLORIDE (PVC) PIPE--NOM 4 IN. DIAM (OR SMALLER) SCHEDULE 40 SOLID CORE PVC PIPE.

3 FIRESTOP SYSTEM--THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

3A FOIL TAPE--NOM 4 IN. WIDE, 3 MIL THICK ALUMINUM TAPE WRAPPED AROUND PIPE OR CONDUIT PRIOR TO THE INSTALLATION OF THE WRAP STRIP (ITEM 3B). MIN OF ONE WRAP, FLUSH WITH THE WALL SURFACES ON BOTH SIDES OF THE WALL ASSEMBLY. FOIL TAPE IS NOT REQUIRED FOR SOLID CORE PVC AND CPVC PIPES AND CONDUITS.

3B FILL, VOID OR CAVITY MATERIALS*-WRAP STRIP--1 IN. WIDE, NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL. WRAP STRIP(S) TIGHTLY WRAPPED AROUND PIPE OR CONDUIT (FOIL SIDE EXPOSED) AND BUTTED AGAINST THE WALL SURFACES ON BOTH SIDES OF THE WALL ASSEMBLY. EACH LAYER OF WRAP STRIP TO BE INSTALLED WITH BUTTED SEAM, WITH BUTTED SEAMS IN SUCCESSIVE LAYERS STAGGERED. WRAP STRIP(S) TEMPORARILY HELD IN POSITION USING ALUMINUM FOIL TAPE, STEEL WIRE TIE, OR EQUIVALENT. THE MIN NUMBER OF WRAP STRIP LAYERS IS DEPENDENT ON THE SIZE OF THE PIPE OR CONDUIT AS SHOWN BELOW:

NOM PIPE/ NO. OF WRAP CONDUIT DIAM	STRIP LAYERS
1-1/2 TO 2 IN.	1
2-1/2 TO 3 IN.	3
3-1/2 TO 4 IN.	4

MINNESOTA MINING & MFG. CO.-FS-195+

C STEEL COLLAR-NOM 1 IN. DEEP COLLAR WITH 1-1/4 IN. WIDE BY 2 IN. LONG ANCHOR TABS AND MIN 1/2 IN. LONG TABS TO RETAIN WRAP STRIP. COILS OF PRECUT MIN 0.016 IN. THICK (NO. 28 GAUGE) GALV SHEET STEEL AVAILABLE FROM WRAP STRIP MANUFACTURER. AS AN ALTERNATE, COLLAR MAY BE FIELD-FABRICATED FROM MIN 0.016 IN. THICK (28 GAUGE) GALV SHEET STEEL IN ACCORDANCE WITH INSTRUCTION SHEET SUPPLIED BY WRAP STRIP MANUFACTURER. COLLAR, WITH ANCHOR TABS BENT OUTWARD 90 DEGREE, WRAPPED TIGHTLY AROUND WRAP STRIP WITH MIN 1 IN. OVERLAP AT SEAM AND COMPRESSED AROUND WRAP STRIP(S) USING A MIN 1/2 IN. WIDE BY MIN 0.028 IN. THICK STAINLESS STEEL BAND CLAMP AT THE COLLAR MIDHEIGHT. AS AN ALTERNATE TO THE BAND CLAMPS, COLLARS MAY BE SECURED BY A MEANS NO. 10 BY 1/2 IN. LONG SHEET METAL SCREWS INSTALLED IN THE VERTICAL AXIS AT HTE CENTER OF THE 1 IN. OVERLAP ALONG THE PERIMETER JOINT OF THE COLLAR. A MIN OF THREE SCREWS IS REQUIRED. COLLAR ANCHOR TABS PRESSED TIGHTLY AGAINST WALL SURFACES, AND SECURED TO WALL SURFACES WITH 3/16 IN. DIAM STEEL TOGGLE BOLTS, OR EQUIVALENT, IN CONJUNCTION WITH MIN 1-1/4 IN. DIAM STEEL FENDER WASHERS. MIN THREE ANCHOR BOLTS FOR NOM 1/2 TO 2 IN. PIPES OR CONDUITS, MIN 4 ANCHOR BOLTS FOR NOM 2-1/2 AND 3 IN. PIPES OR CONDUITS AND MIN 5 ANCHOR BOLTS FOR NOM 3-1/2 AND 4 IN. PIPES OR CONDUITS, SYMMETRICALLY LOCATED. RETAINER TABS BENT 90 DEG TOWARD PIPE TO LOCK WRAP STRIP(S) IN POSITION.

D FILL, VOID OR CAVITY MATERIALS*-CAULK OR PUTTY--(OPTIONAL--NOT SHOWN)--GENEROUS BEAD OF CAULK OR PUTTY APPLIED TO OUTER PERIMETER OF WRAP STRIP AT INTERFACE WITH WALL SURFACES AND TO PERIMETER OF PIPE OR CONDUIT AT ITS EGRESS FROM THE WRAP STRIP LAYERS. MINNESOTA MINING & MFG. CO.--CP 25WB+, MPS-2+.

E FIRESTOP DEVICE*-(NOT SHOWN)-AS AN ALTERNATE TO ITEM A AND B WHEN NOM 1-1/2, 2, 3 OR 4 IN. DIAM NONMETALLIC PIPES ARE USED, A FIRESTOP DEVICE CONSISTING OF A SHEET-STEEL SPLIT COLLAR LINED WITH INTUMESCENT MATERIAL AND PROVIDED WITH STEEL CLIPS FOR ATTACHMENT MAY BE USED. FIRESTOP DEVICE TO BE INSTALLED ON UNDERSIDE OF TOP PLATE OR ON BOTH SIDES OF WALL IN ACCORDANCE WITH THE ACCOMPANYING INSTALLATION INSTRUCTIONS.

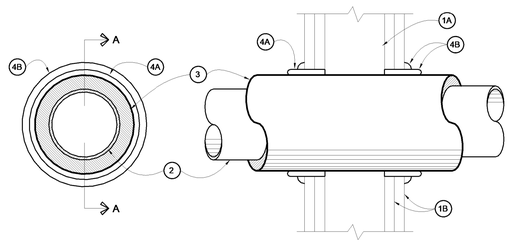
**BEARING THE UL LISTING MARK
*BEARING THE UL CLASSIFICATION MARKING

4 P3.2 PVC PENETRATION DETAIL

1/8" = 1'-0"

SYSTEM NO. WL5001

F RATING - 1 AND 2 HOUR
T RATING - 3/4, 1 AND 1 1/2 HR
L RATING AT AMBIENT - 2 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A - A

1 WALL ASSEMBLY-THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
B. WALLBOARD, GYPSUM*-NOM 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 14-1/2 IN FOR WOOD STUD WALLS AND 18 IN. FOR STEEL STUD WALLS. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.

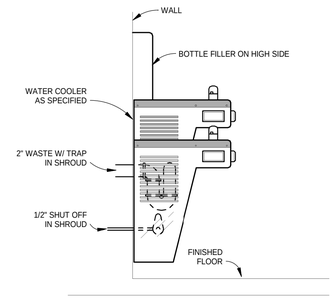
2 THROUGH PENETRANTS-ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:
A. STEEL PIPE-NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. COPPER TUBING-NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
C. COPPER PIPE-NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

3 PIPE COVERING*-NOM 1 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. TO MAX 3/8 IN. WHEN NOM 2 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. TO MAX 3/4 IN.
SEE PIPE AND EQUIPMENT COVERING MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN. THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 1-1/2 HR WHEN NOM 2 IN. THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY.

4 FIRESTOP SYSTEM-INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY.
THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
A. FILL, VOID OR CAVITY MATERIALS*-WRAP STRIP-NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS. NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1-1/4 IN. SUCH THAT APPROX 3/4 IN. OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. THICK PIPE COVERING IS USED.
MINNESOTA MINING & MFG. CO.-FS-195+
B. FILL, VOID OR CAVITY MATERIALS*-CAULK-MIN 1/4 IN. DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN. FROM THE WALL SURFACE.
MINNESOTA MINING & MFG. CO.-CP 25WB+
*BEARING THE UL CLASSIFICATION MARKING

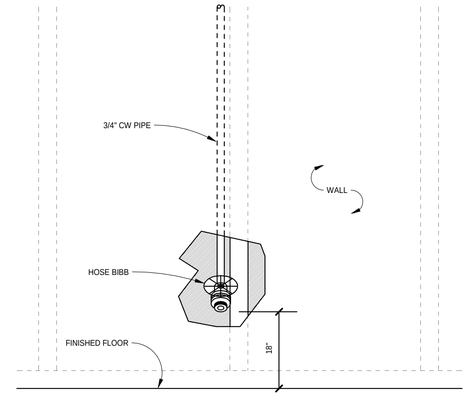
3 P3.2 INS. COPPER PENETRATION DETAIL

NOT TO SCALE



1 P3.2 ELECTRIC WATER COOLER DETAIL

NOT TO SCALE



2 P3.2 INTERIOR HOSE BIBB DETAIL

NOT TO SCALE

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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA BOARD OF EXAMINERS FOR ENGINEERING AND SURVEYING — ATLANTEC ENGINEERS PA No. C-967 — CORPORATION

BID SET

DocuSigned by: Jonathan Harrison Holt — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 049754 — JONATHAN HARRISON HOLT

9/12/24

BID SET

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: JHH	Sheet No.: P3.2
Checked By: JHH	

Sheet Title: PLUMBING DETAILS

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT METHOD OF COMPLIANCE

PRESCRIPTIVE ☒ ENERGY COST BUDGET ☐

THERMAL ZONE 3A

EXTERIOR DESIGN CONDITIONS
winter dry bulb: 26°F
summer dry bulb: 88°F
relative humidity: 46%

INTERIOR DESIGN CONDITIONS
winter dry bulb: 70°F
summer dry bulb: 74°F
relative humidity: 50%

BUILDING HEATING LOAD: BLOCK LOAD = 67.2 MBH

BUILDING COOLING LOAD: BLOCK LOAD = 145.4 MBH (12.1 TONS)

MECHANICAL SPACING CONDITIONING SYSTEM

Unitary:
description of unit:
heating efficiency:
cooling efficiency:
heat output of unit:
cooling output of unit:
} SEE SCHEDULES ON SHEET(S) THIS SHEET

Boiler: N/A
total boiler capacity. If oversized state reason.

Chiller: N/A
total chiller capacity. If oversized state reason.

LIST EQUIPMENT EFFICIENCIES: SEE SCHEDULES ON SHEET(S) THIS SHEET

EQUIPMENT SCHEDULES WITH MOTORS (MECHANICAL SYSTEMS)

motor horsepower:
number of phases:
minimum efficiency:
motor type:
# of poles:
} SEE SCHEDULES ON SHEET(S) THIS SHEET

DESIGNER STATEMENT

To the best of my knowledge and belief, the design of this building complies with the mechanical systems, service systems and equipment requirements of the North Carolina State Energy Code,

SIGNED: Patrick McCabe

NAME: Patrick J. McCabe, PE

TITLE: Professional Engineer

SEISMIC REQUIREMENTS

SEISMIC AND WIND REQUIREMENTS FOR MECHANICAL SYSTEMS (PER ASCE 7-05)

1. ALL ROOF CURBS/ROOF RAILS INCLUDING THEIR ATTACHMENT TO THE EQUIPMENT AND STRUCTURE MUST BE EVALUATED FOR WIND LOADING. WHERE SEISMIC RESTRAINT IS REQUIRED, THE MORE DEMANDING FORCE OF WIND AND SEISMIC MUST BE USED.

2. SEE SEISMIC INFORMATION CONTAINED ON STRUCTURAL DRAWING FOR SITE SPECIFIC INFORMATION ON SEISMIC DESIGN CATEGORY.

3. SEE TABLE BELOW FOR SPECIFIC COMPONENT RESTRAINT REQUIREMENTS.

4. FOR ALL COMPONENTS REQUIRING SEISMIC RESTRAINT, THE COMPONENT SUPPORTS AND ATTACHMENTS SHALL BE DESIGNED BY A REGISTERED DESIGN PROFESSIONAL. CONTRACTOR TO FURNISH AND INSTALL ALL SEISMIC BRACING AS NOTE HEREIN. CONTRACTOR SHALL FURNISH DESIGNN CALCULATIONS AND SUBMITTAL FOR REVIEW.

SEISMIC DESIGNN CATEGORY C, COMPONENT IMPORTANCE FACTOR 1.5

COMPONENT	RESTRAINT REQUIREMENT	ASCE 7-05 REFERENCE
SUSPENDED EQUIPMENT INLINE WITH DUCT/PIPE	RESTRAIN IF > 75 LBS (SEE NOTE 3,4)	13.6.7
SUSPENDED EQUIPMENT NOT INLINE WITH DUCT/PIPE	RESTRAIN ALL	13.6.3
DUCTILE PIPING	PIPE GREATER THAN 2" (SEE NOTE 5,6)	13.6.8
SUSPENDED DUCTWORK	DUCTWORK GREATER THAN 6 SQFT OR LARGER THAN 28" IN DIAMETER (SEE NOTE 6)	13.6.7
COMPONENT CERTIFICATION (NOTE 7)	REQUIRED	13.2.2

NOTES:

1. EQUIPMENT GREATER THAN 20 LBS OR LESS IS EXEMPT IF FLEXIBLE CONNECTIONS ARE PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
2. RESTRAINTS ARE NOT REQUIRED IF COMPONENT WEIGHS LESS THAN 400 LBS OR IS AT 4 FEET OR LESS ABOVE FINISHED FLOOR AND HAS FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
3. ITEMS WEIGHING LESS THAN 76 LBS DO NOT NEED RESTRAINT IF THE ATTACHED DUCTWORK/PIPING IS RESTRAINED AND POSITIVELY ATTACHED TO THE EQUIPMENT.
4. FLEXIBLE CONNECTIONS REQUIRED FOR PIPE CONNECTIONS ONLY.
5. ALL NON-DUCTILE PIPING (PLASTIC, CAST IRON, CERAMIC) MUST BE RESTRAINED.
6. RESTRAINT IS NOT REQUIRED IF SUSPENDED 12: OR LESS FROM THE STRUCTURE AND THE HANGERS ARE DETAILED TO AVOID SIGNIFICANT BENDING OF THE HANGERS AND THEIR ATTACHMENTS. PROVISIONS ARE MADE FOR PIPING TO ACCOMODATE EXPECTED DEFLECTIONS.
7. COMPONENT CERTIFICATION MUST BE SUPPLIED BY THE EQUIPMENT MANUFACTURER AT THE TIME OF SUBMITTAL FOR REVIEW BY THE ENGINEER OF RECORD.

SITE SPECIFIC REQUIREMENTS FOR PAMLICO COUNTY EOC/911 DISPATCH

ALL SPRINKLER PIPING LARGER THAN 2" SHALL BE RESTRAINED IN ACCORDANCE WITH NFPA 13.

ALL DOMESTIC WATER, SEWER VENT AND NATURAL GAS PIPING LARGER THAN 2" SHALL BE RESTRAINED WITH CABLES AT 45 DEGREE ANGLES AND SECURED TO STRUCTURE. PIPING INSTALLED WITHIN 12" OF STRUCTURE SHALL BE EXEMPT.

ALL GAS FURNACES, INLINE FANS, HEATERS TO BE RESTRAINED.

DEHUMIDIFIER SCHEDULE

MARK	MAKE	MODEL	PINTS/DAY	CFM	HP/WATTS	S.P.	POWER	NOTES
DH-3	ULTRA-AIRE	98H	98	300 CFM	670 WATTS	0.20 in-wg	120/1Ø	1-3
DH-4	ULTRA-AIRE	98H	98	300 CFM	670 WATTS	0.20 in-wg	120/1Ø	1-3

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH.
2. CONTROL VIA WALL MOUNTED HUMIDISTAT.
3. PROVIDE WITH CONDENSATE TRAP AND ROUTE TO EXTERIOR SPLASH BLOCK.

EXHAUST FAN SCHEDULE

MARK	MAKE	MODEL	SERVICE	TYPE	CFM	RPM	HP/WATTS	S.P.	POWER	NOTES
EF-1	COOK	GC-140	TOILET	CABINET FAN	105 CFM	1500	67 W	0.25 in-wg	120/1Ø	1-3
EF-2	COOK	90 SQN-D	EXHAUST	INLINE FAN	250 CFM	1200	1/6 HP	0.50 in-wg	120/1Ø	1,2,4
EF-3	COOK	GC-140	IT	CABINET FAN	105 CFM	1500	67 W	0.25 in-wg	120/1Ø	1,2,5
EF-4	COOK	20 XMP	BAY	SIDEWALL	1500 CFM	1725	1/4	0.25 in-wg	120/1Ø	2,5,6,7
EF-5	COOK	20 XMP	BAY	SIDEWALL	1500 CFM	1725	1/4	0.25 in-wg	120/1Ø	2,5,6,7,8

NOTES:

1. PROVIDE WITH DISCONNECT SWITCH.
2. PROVIDE WITH BACKDRAFT DAMPER.
3. CONTROL VIA LIGHT SWITCH BY E.C.
4. CONTROL VIA TIMECLOCK LOCATED IN MECHANICAL ROOM.
5. PROVIDE WITH WALL MOUNTED THERMOSTAT.
6. PROVIDE WITH STARTER/DISCONNECT AND INTERLOCK WITH 24V LOUVER ACTUATOR.
7. PROVIDE WITH HURRICANE LOUVER. SIZE TO MATCH FAN WALL OPENING.
8. PROVIDE FOR ALTERNATE #1.

GAS UNIT HEATER SCHEDULE

MARK	MAKE	MODEL	SERVICE	CFM	GAS INPUT	HEAT OUTPUT	FLA	POWER	AFUE	NOTES
GUH-1	MODINE	HD30	BAY	505 CFM	30.0 MBH	24.9 MBH	4 A	120/1Ø	83	1-4
GUH-2	MODINE	HD30	BAY	505 CFM	30.0 MBH	24.9 MBH	4 A	120/1Ø	83	1-4
GUH-3	MODINE	HD30	BAY	505 CFM	30.0 MBH	24.9 MBH	4 A	120/1Ø	83	1-5
GUH-4	MODINE	HD30	BAY	505 CFM	30.0 MBH	24.9 MBH	4 A	120/1Ø	83	1-5

NOTES:

1. PROVIDE WITH POWER DISCONNECT.
2. PROVIDE WITH WALL MOUNTED THERMOSTAT.
3. PROVIDE WITH WALL HANGING KIT.
4. PROVIDE WITH GAS REGULATOR, DIRT LEG, AND VALVE AT CONNECTION.
5. PROVIDE WITH ALTERNATE #1.

OUTSIDE AIR SUMMARY

REQUIRED:

OFFICE = 2830 SQFT * 0.06 CFM/SQFT + 21 PERSONS * 5 CFM/PERSON = 275 CFM
CLASSROOM = 848 SQFT * 0.06 CFM/SQFT + 50 PERSONS * 7.5 CFM/PERSON = 426 CFM

TOTAL REQUIRED = 701 CFM

PROVIDED:

GF-1 = 100 CFM
GF-2 = 125 CFM
GF-3 = 75 CFM
*GF-4 = 450 CFM MAXIMUM 180 CFM MINIMUM

TOTAL PROVIDED = 750 CFM

*PROVIDE WITH DEMAND CONTROLLED VENTILATION AND DUCT MOUNTED CO2 SENSOR. MODULATE OUTSIDE AIR DAMPER TO FULLY OPEN WHEN CO2 CONCENTRATIONS EXCEED 900 PPM. DAMPER TO ALLOW 10% SUPPLY AIR FLOW WHEN CO2 CONCENTRATIONS ARE BELOW 900 PPM.

CONDENSING UNIT SCHEDULE

MARK	MAKE	MODEL	TOTAL COOL	SENS COOL	POWER	FLA	MOCP	SEER	NOTES
CU-1	TRANE	4TTA4042	40.8 MBH	30.2 MBH	208/3Ø	12.3 A	25 A	14.0 SEER	1
CU-2	TRANE	4TTR4030	29.7 MBH	22.7 MBH	208/1Ø	13.6 A	25 A	14.0 SEER	1
CU-3	TRANE	4TTR4024	40.8 MBH	17.8 MBH	208/1Ø	11.0 A	20 A	14.0 SEER	1
CU-4	TRANE	4TTA4060	56.8 MBH	43.5 MBH	208/3Ø	17.0 A	35 A	14.0 SEER	1
CU-5	MITSUBISHI	PUY-A24NHA7	24.0 MBH	18.5 MBH	208/1Ø	19.0 A	25 A	21.3 SEER2	1-2

NOTES:

1. PROVIDE WITH FUSIBLE DISCONNECT.
2. PROVIDE WITH LOW AMBIENT CONTROLS DOWN TO 0°F.

GAS FURNACE SCHEDULE

MARK	MAKE	MODEL	CFM	S.P.	H.P.	POWER	GAS INPUT	HEAT OUTPUT	AFUE	DX COIL	NOTES
GF-1	TRANE	S9X1B080	1350 CFM	0.5 in-wg	3/4	120/1Ø	80.0 MBH	77.6 MBH	96	4TXCC005	1-5
GF-2	TRANE	S9X1B060	950 CFM	0.5 in-wg	3/4	120/1Ø	60.0 MBH	58.2 MBH	96	4TXCB004	1-5
GF-3	TRANE	S9X1B060	600 CFM	0.5 in-wg	3/4	120/1Ø	60.0 MBH	58.2 MBH	96	4TXB004	1-5
GF-4	TRANE	S9X1D120	1800 CFM	0.5 in-wg	1	120/1Ø	120.0 MBH	116.4 MBH	96	4TXF064	1-6

NOTES:

1. PROVIDE WITH FUSIBLE DISCONNECT.
2. PROVIDE WITH PROGRAMMABLE THERMOSTAT.
3. SEE OUTSIDE AIR SUMMARY FOR OUTSIDE AIR INTAKE FLOW SETTINGS.
4. ROUTE COMBUSTION AIR INTAKE AND EXHAUST PIPES TO EXTERIOR. TERMINATE WITH CONCENTRIC VENT.
5. PROVIDE WITH CONDENSATE NEUTRALIZATION KIT. ROUTE CONDENSATE TO FLOOR DRAIN BY P.C.
6. PROVIDE WITH DEMAND CONTROLLED VENTILATION AND DUCT MOUNTED CO2 SENSOR.

FAN COIL SCHEDULE

MARK	MAKE	MODEL	CFM	FLA	NOTES
FC-5	MITSUBISHI	PKA-A24KA8	650 CFM	0.3 A	1-4

NOTES:

1. PROVIDE WITH MOTOR RATED DISCONNECT.
2. PROVIDE WITH WIRED THERMOSTAT.
3. PROVIDE WITH CONDENSATE PUMP AND ROUTE DISCHARGE TO EXTERIOR.
4. PROVIDE WITH LOW AMBIENT CONTROLS DOWN TO 0°F.

GRILLE & DIFFUSER SCHEDULE

MARK	MAKE	MODEL	SERVICE	TYPE	MAX FLOW	FACE SIZE	NECK SIZE	NOTES
A	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	100 CFM	24x24	6"ø	1-3
AA	PRICE	SMD	SUPPLY	SURFACE MOUNT	100 CFM	8x8	6"ø	1,2
B	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	200 CFM	24x24	8"ø	1-3
C	PRICE	SCD 4 CONE	SUPPLY	LOUVERED LAY-IN	300 CFM	24x24	10"ø	1-3
D	PRICE	510	SUPPLY	DUCT MOUNTED	200 CFM	12x4	-	1,2,4,5
EA	PRICE	530	EXHAUST	LOUVERD LAY-IN	1000 CFM	24x24	SEE DWG	1-3
RA	PRICE	530	RETURN	LOUVERED LAY-IN	1000 CFM	24x24	SEE DWG	1-3

NOTES:

1. COORDINATE FINISH WITH ACRCHITECT.
2. GRILLE TO HAVE FULLY LOUVERD FACE.
3. PROVIDE WITH INSULATED SHEET METAL PLENUM.
4. PROVIDE WITH FRAME FOR DUCT MOUNTING.
5. PROVIDE WITH OPPOSED BLADE DAMPERS.

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STATE CODE, ALL LOCAL AND OTHER APPLICABLE CODES
2. ANY PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR (M.C).
3. ALL WORK SHALL BE PERFORMED BY EXPERIENCED AND SKILLED CRAFTSMAN. THE M.C. SHALL COORDINATE ALL OF THEIR WORK WITH ALL OTHER CONTRACTORS.
4. THE MECHANICAL PLANS AND SPECIFICATIONS SHALL BE THOROUGHLY REVIEWED PRIOR TO PURCHASING MATERIALS AND INSTALLATION. ALL DISCREPANCIES OR INTERFERENCES SHALL BE BROUGHT TO THE ENGINEERS' ATTENTION.
5. THESE PLANS ARE DIAGRAMMATIC AND MAY NOT SHOW MINOR DETAILS AND LOCATIONS. FOR DIMENSIONS, REFER TO THE ARCHITECTURAL PLANS.
6. THE M.C. SHALL BE RESPONSIBLE FOR ALL ELECTRICAL STARTERS, INTERLOCKS, CONTROL WIRING. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING, CONDUIT FROM THE DISCONNECT TO M.C. EQUIPMENT. THE M.C. SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO THEIR EQUIPMENT.
7. INSTALL FLEXIBLE CONNECTORS ON SUPPLY AND RETURN DUCTWORK AT ALL AIR HANDLING UNITS.
8. INSTALL TURNING VANES IN ALL DUCTS AT ELBOWS. PROVIDE BALANCING AND SPLITTER DAMPERS WHERE SHOWN AND AS REQUIRED FOR SYSTEM BALANCING.
9. ALL THERMOSTATS, WIRING AND CONDUIT ARE TO BE FURNISHED BY THE M.C. MOUNT THERMOSTATS 4'-0" ABOVE THE FLOOR, UNLESS OTHERWISE NOTED.
10. THE M.C. SHALL INSURE THAT ALL MECHANICAL EQUIPMENT INSTALLED UNDER THEIR CONTRACT SHALL OPERATE FREE OF OBJECTIONABLE NOISE AND VIBRATION.
11. THE M.C. SHALL KEEP THE PREMISES CLEAR OF DEBRIS FROM THEIR WORK DURING CONSTRUCTION AND LEAVE THE AREA AND BUILDING CLEAN AT THE COMPLETION OF THEIR WORK. THEY SHALL ALSO LEAVE CLEAN ALL EXPOSED EQUIPMENT IN THEIR CONTRACT.
12. FLEXIBLE DUCT RUNOUTS SHALL BE A MAXIMUM OF 10'-0".
13. ALL FLEXIBLE DUCT RUNOUTS SHALL INCLUDE INSULATED DAMPERED BOOTS AT THE POINT OF CONNECTION WITH RECTANGULAR DUCT. PROVIDE ALL FLEXIBLE DUCTWORK WITH FOIL-BACKED, EXTERNALLY WRAPPED INSULATION FOR A MINIMUM OF R-8.
14. ALL DUCTWORK SIZES SHOWN ARE ACTUAL SHEET METAL DIMENSIONS. EXTERNALLY WRAP ALL DUCT WITH 3" FOIL-BACKED INSULATION FOR A MINIMUM OF R-8.,
15. ALL GAS PIPING SHALL BE SCHEDULE 40 BLACK STEEL INSTALLED IN ACCORDANCE WITH ALL CODES. THE M.C. SHALL COORDINATE GAS PIPE CONNECTION SIZE WITH EQUIPMENT.
16. MECHANICAL CONTRACTOR SHALL WORK WITH TEST AND BALANCE CONTRACTOR TO REMEDY ANY DIFFERENCES TO INCLUDE FAN DRIVE CHANGES, INSTALLATION OF DAMPERS OR OTHER MINOR DUCT MODIFICATIONS TO PROVIDE AIRFLOW TO WITHIN +/- 10% OF THE DESIGN VALUES LISTED ON THESE PLANS.
17. CONTRACTOR SHALL PROVIDE TESTING OF ALL FIRE DAMPERS PRIOR TO SUBSTANTIAL COMPLETION. ENGINEER SHALL WITNESS TESTING OF FIRE DAMPER BY CONTRACTOR. CONTRACTOR SHALL SHUT ALL DAMPERS AND REOPEN TO ENSURE ALL DAMPERS ARE CAPABLE OF CLOSING. CONTRACTOR SHALL PROVIDE ACCESS DOORS AS REQUIRED TO ACCESS DAMPER FOR TESTING.
18. THE AIR HANDLING UNIT SHALL OPERATE AT ALL TIMES DURING OCCUPIED HOURS.
19. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF AS-BUILT DRAWINGS UPON COMPLETION OF JOB.
20. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A SET OF DUCT SHOP DRAWINGS FOR APPROVAL.
21. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A BALANCE REPORT BY A CERTIFIED TEST AND BALANCE COMPANY.
22. PROVIDE PERMIT LABEL ENGRAVED PLASTIC LAMINATE MECHANICALLY FASTENED TO OUTDOOR UNITS.
23. LABEL CEILING GRID WHERE EQUIPMENT IS LOCATED ABOVE LAY-IN CEILING. WITH EQUIPMENT IDENTIFIER. ALSO LABEL ALL TEMPERATURE SENSORS AND THERMOSTATS WITH EQUIPMENT IDENTIFIER.

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	SHEET METAL DUCT
	FLEXIBLE DUCT
	SUPPLY DIFFUSER - LETTER & NUMBER INDICATES TYPE & CFM
	RETURN GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	EXHAUST GRILLE - LETTER & NUMBER INDICATES TYPE & CFM
	EXHAUST FAN
T	THERMOSTAT - MOUNTED 48" ABOVE FINISHED FLOOR
BD	BALANCING DAMPER
	ELBOW WITH TURNING VANES
S	DUCT-MOUNTED SMOKE DETECTOR - PROVIDED BY E.C. & INSTALLED BY THE MECHANICAL CONTRACTOR - WIRE TO SHUT DOWN UNIT
H	HUMIDISTAT - MOUNTED 48" ABOVE FINISHED FLOOR
M	MOTOR OPERATED DAMPER
	GRAVITY BACKDRAFT DAMPER
	MANUAL (BALANCING) DAMPER
	PARALLEL BLADE DAMPER
	OPPOSED BLADE DAMPER
CO2	WALL MOUNTED CARBON DIOXIDE SENSOR
CO2	DUCT MOUNTED CARBON DIOXIDE SENSOR
H	DUCT MOUNTED HUMIDITY SENSOR
S	DUCT MOUNTED SMOKE DETECTOR
C	CONDENSATE DRAIN
	FIRE DAMPER
	PIPING TURNED DOWN
	PIPING TURNED UP
	PIPING SIDE CONNECTION
G	GAS PIPING
	BALL VALVE

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(252) 527-3336

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA PROFESSIONAL CORPORATION ATLANTEC ENGINEERS PA No. C-961

9/9/25
NORTH CAROLINA PROFESSIONAL SEAL 051195 ENGINEER PATRICK J. MCCABE
Patrick McCabe

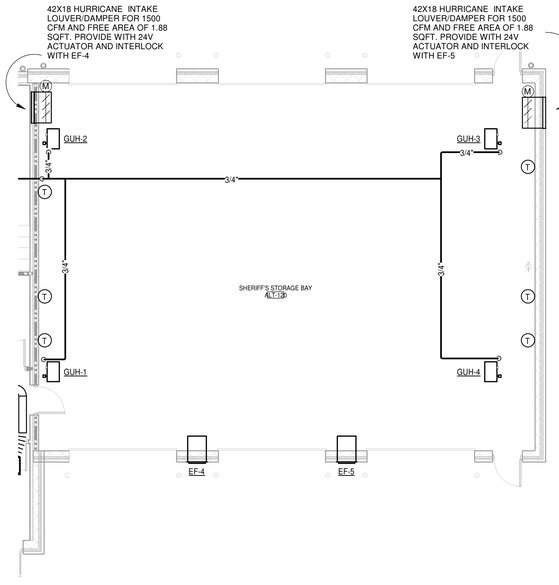
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: PJM	Sheet No.: M0.0
Checked By: PJM	

Sheet Title
MECHANICAL NOTES, LEGEND, AND DETAILS



2 M1.1 ALTERNATE MECHANICAL PLAN

1/8" = 1'-0"

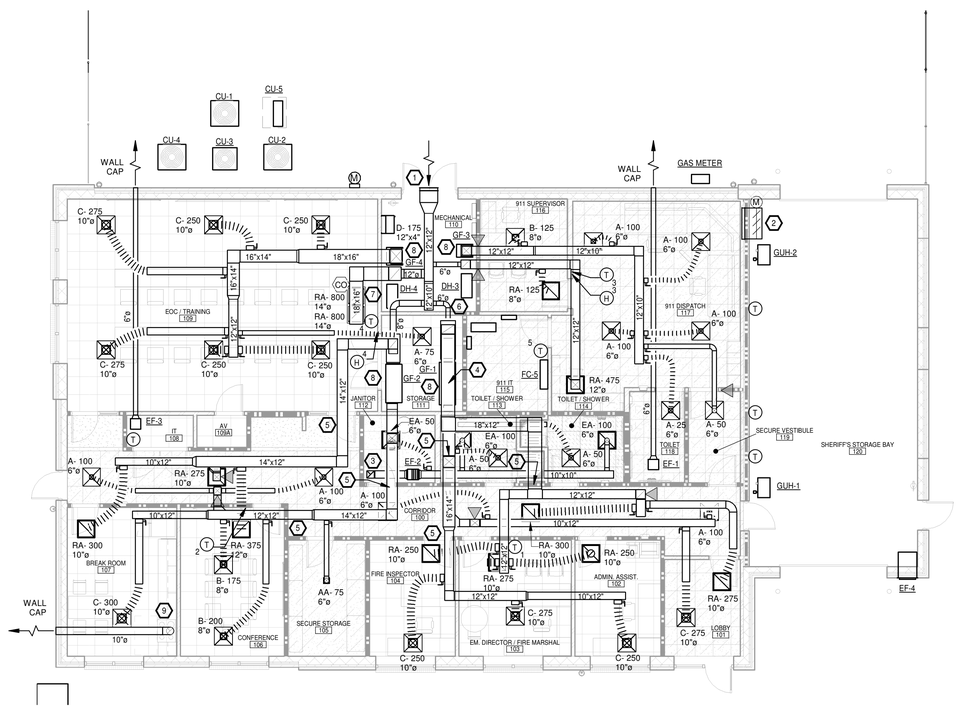
KEY NOTES 1/M1.1

1	PROVIDE OUTSIDE AIR LOUVER (24X12) EQUAL TO POTTORFF EFD-437-FL FOR FREE AREA OF 0.94 SQFT. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT WITH ARCHITECT.
2	PROVIDE OUTSIDE AIR LOUVER/DAMPER (42X18) EQUAL TO POTTORFF EXA-645-MD FOR FREE AREA OF 1.88 SQFT. PROVIDE WITH KYNAR FINISH AND INSECT SCREEN. COORDINATE MOUNTING HEIGHT WITH ARCHITECT. PROVIDE WITH 24V ACTUATOR AND INTERLOCK WITH EF-4.
3	10X10 EXHAUST DUCT UP TO ROOF CAP.
4	ROUTE RETURN DUCTWORK ON TOP OF SUPPLY DUCTWORK AS REQUIRED.
5	DUCTWORK ROUTED ABOVE RATED CEILING AS REQUIRED.
6	CONNECT DH-3 TO GF-3 WITH 10"Ø FLEX DUCT TO RETURN AND SUPPLY OF GAS FURNACE.
7	CONNECT DH-4 TO GF-4 WITH 10"Ø FLEX DUCT TO RETURN AND SUPPLY OF GAS FURNACE.
8	PROVIDE 2" PVC PIPES FOR FURNACE SLUES AND COMBUSTION AIR. TERMINATE THROUGH ROOF WITH CONCENTRIC VENT.
9	OWNER PROVIDED HOOD. PROVDE 10" RIGID EXHAUST DUCT TO EXTERIOR AND TERMINATE WITH WALL CAP.

RATED WALL LEGEND

2 HOUR RATED WALL

1 HOUR RATED WALL



1 M1.1 MECHANICAL PLAN

1/8" = 1'-0"

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 051195 PATRICK J. MCGUIRE

9/9/24

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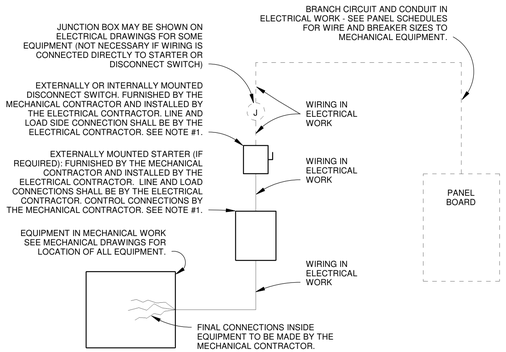
Revisions

#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: PJM	Sheet No.: M1.1
Checked By: PJM	

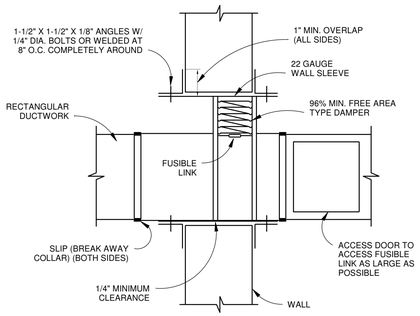
Sheet Title: MECHANICAL PLAN



NOTE:

1. A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER.
   - COMBINATION STARTER SHALL BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR.
   - LINE AND LOAD SIDE CONNECTION SHALL BE BY THE ELECTRICAL CONTRACTOR.
   - CONTROL CONNECTIONS BY THE MECHANICAL CONTRACTOR.
2. ELECTRICAL CONTRACTOR SHALL FURNISH ALL REQUIRED FUSES.

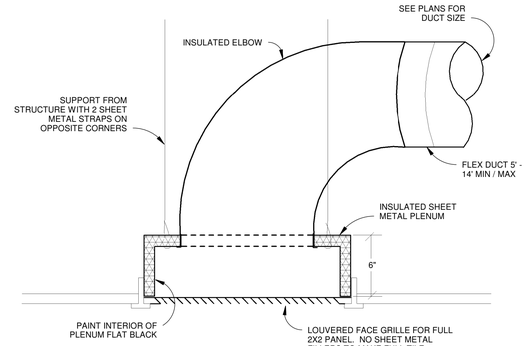
12 / M2.1 TYPICAL WIRING DETAIL
N.T.S.



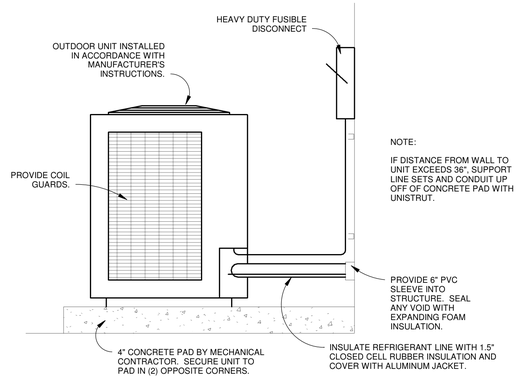
NOTE:

DETAIL FOR REFERENCE ONLY. DAMPERS SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. DO NOT FIRE STOP THE GAP BETWEEN THE FIRE DAMPER SLEEVE AND THE PENETRATION UNLESS SPECIFICALLY CALLED FOR IN THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

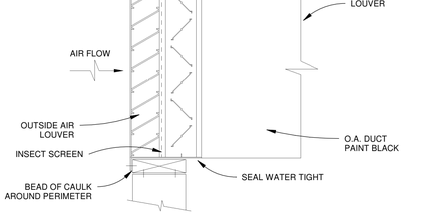
8 / M2.1 VERTICAL FIRE DAMPER DETAIL
N.T.S.



5 / M2.1 LAY IN RETURN GRILLE DETAIL
N.T.S.

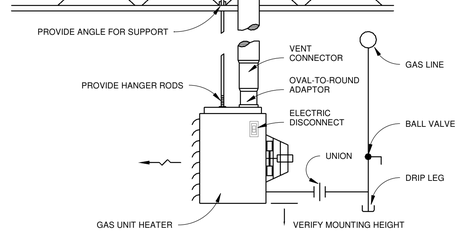


2 / M2.1 OUTDOOR UNIT DETAIL
N.T.S.



NOTE: OPENING AND FRAME PROVIDED BY THE G.C.

11 / M2.1 INTAKE LOUVER DETAIL
N.T.S.



7 / M2.1 GAS UNIT HEATER DETAIL
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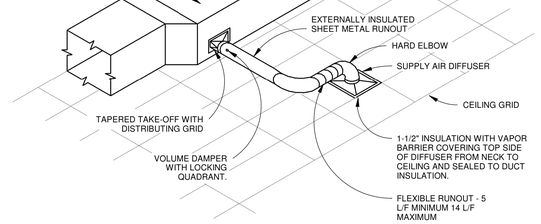
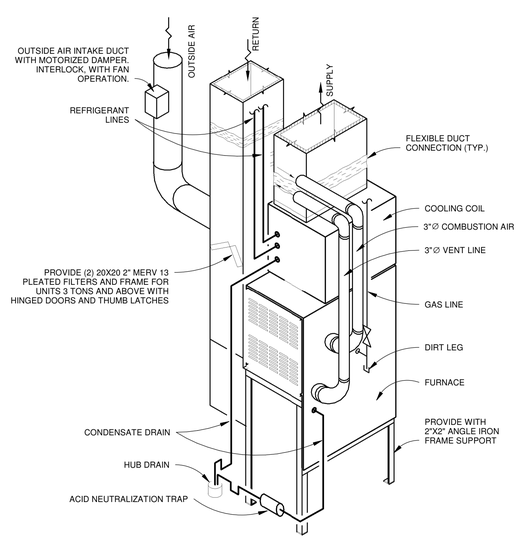
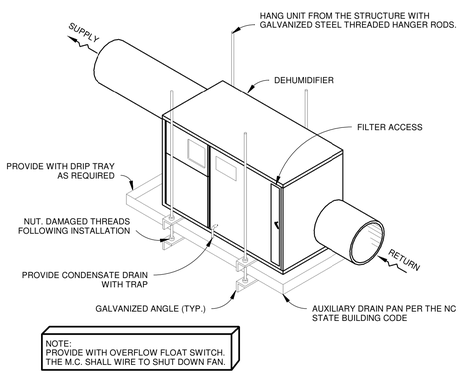


4 / M2.1 LAY-IN SUPPLY DIFFUSER DETAIL
N.T.S.

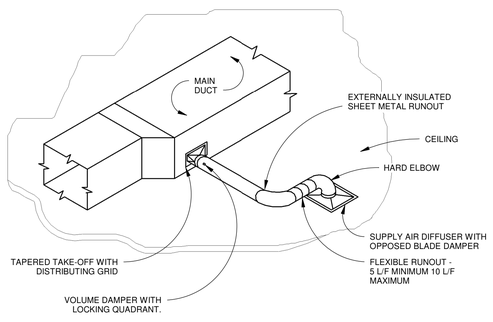


1 / M2.1 GAS FURNACE DETAIL
N.T.S.

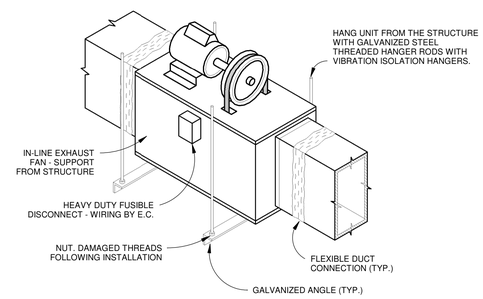


NOTE:
PROVIDE WITH OVERFLOW FLOAT SWITCH. THE M.C. SHALL WIRE TO SHUT DOWN FAN.

10 / M2.1 DEHUMIDIFIER DETAIL
N.T.S.



6 / M2.1 HARD CEILING SUPPLY DIFFUSER DETAIL
N.T.S.



3 / M2.1 IN-LINE FAN DETAIL
N.T.S.

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NEW CONSTRUCTION FOR:

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PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL ATLANTEC ENGINEERS PA No. C-961

9/13/2024
NORTH CAROLINA PROFESSIONAL SEAL 051195 ENGINEER PATRICK MCCABE

GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

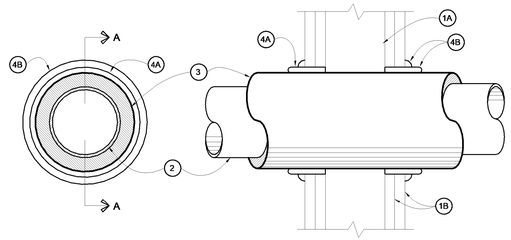
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: PJM	Sheet No.: M2.1
Checked By: PJM	

Sheet Title
MECHANICAL DETAILS

SYSTEM NO. WL5001

F RATING - 1 AND 2 HOUR
T RATING - 3/4, 1 AND 1 1/2 HR
L RATING AT AMBIENT - 2 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT



SECTION A - A

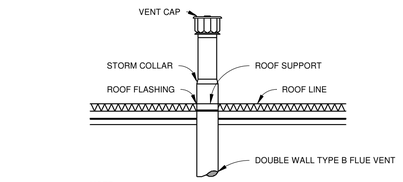
(1) **WALL ASSEMBLY-THE 1 OR 2 HR FIRE-RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER DESCRIBED IN THE INDIVIDUAL U300 OR U400 SERIES WALL OR PARTITION DESIGN IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:**
A. STUDS-WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNEL STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. OC WITH NOM 2 BY 4 IN. LUMBER END PLATES AND CROSS BRACES. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE BY 1-3/8 IN. DEEP CHANNELS SPACED MAX 24 IN. OC.
B. WALLBOARD, GYPSUM*-NOM 5/8 IN. THICK, 4 FT WIDE WITH SQUARE OR TAPERED EDGES. THE GYPSUM WALLBOARD TYPE, THICKNESS, NUMBER OF LAYERS, FASTENER TYPE AND SHEET ORIENTATION SHALL BE AS SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES DESIGN IN THE UL FIRE RESISTANCE DIRECTORY. MAX DIAM OF OPENING IS 14-1/2 IN FOR WOOD STUD WALLS AND 18 IN. FOR STEEL STUD WALLS.
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS 1 HR WHEN INSTALLED IN A 1 HR FIRE RATED WALL AND 2 HR WHEN INSTALLED IN A 2 HR FIRE RATED WALL.

(2) **THROUGH PENETRANTS-ONE METALLIC PIPE OR TUBING TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. PIPE OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES OR TUBING MAY BE USED:**
A. STEEL PIPE-NOM 12 IN. DIAM (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE.
B. COPPER TUBING-NOM 6 IN. DIAM (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBING.
C. COPPER PIPE-NOM 6 IN. DIAM (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

(3) **PIPE COVERING*-NOM 1 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN 3.5 PCF) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OR FACTORY-APPLIED SELF-SEALING LAP TAPE. TRANSVERSE JOINTS SEALED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. WHEN NOM 1 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/4 IN. TO MAX 3/8 IN. WHEN NOM 2 IN. THICK PIPE COVERING IS USED, THE ANNULAR SPACE BETWEEN THE PIPE COVERING AND THE CIRCULAR CUTOUT IN THE GYPSUM WALLBOARD LAYERS ON EACH SIDE OF THE WALL SHALL BE MIN 1/2 IN. TO MAX 3/4 IN.**
SEE PIPE AND EQUIPMENT COVERING MATERIALS (BRGU) CATEGORY IN BUILDING MATERIALS DIRECTORY FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE ABOVE SPECIFICATIONS AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.
THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 3/4 HR WHEN NOM 1 IN. THICK PIPE COVERING IS USED. THE HOURLY T RATING OF THE FIRESTOP SYSTEM IS 1 HR AND 1-1/2 HR WHEN NOM 2 IN. THICK PIPE COVERING IS USED WITH 1 HR AND 2 HR FIRE RATED WALLS, RESPECTIVELY.

(4) **FIRESTOP SYSTEM-INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:**
A. FILL, VOID OR CAVITY MATERIAL*-WRAP STRIP-NOM 1/4 IN. THICK INTUMESCENT ELASTOMERIC MATERIAL FACED ON ONE SIDE WITH ALUMINUM FOIL, SUPPLIED IN 2 IN. WIDE STRIPS. NOM 2 IN. WIDE STRIP TIGHTLY WRAPPED AROUND PIPE COVERING (FOIL SIDE OUT) WITH SEAM BUTTED. WRAP STRIP LAYER SECURELY BOUND WITH STEEL WIRE OR ALUMINUM FOIL TAPE AND SLID INTO ANNULAR SPACE APPROX 1-1/4 IN. SUCH THAT APPROX 3/4 IN. OF THE WRAP STRIP WIDTH PROTRUDES FROM THE WALL SURFACE. ONE LAYER OF WRAP STRIP IS REQUIRED WHEN NOM 1 IN. THICK PIPE COVERING IS USED. TWO LAYERS OF WRAP STRIP ARE REQUIRED WHEN NOM 2 IN. THICK PIPE COVERING IS USED.
MINNESOTA MINING & MFG. CO.-FS-195+
B. FILL, VOID OR CAVITY MATERIAL*-CAULK-MIN 1/4 IN. DIAM CONTINUOUS BEAD APPLIED TO THE WRAP STRIP/WALL INTERFACE AND TO THE EXPOSED EDGE OF THE WRAP STRIP LAYER APPROX 3/4 IN. FROM THE WALL SURFACE.
MINNESOTA MINING & MFG. CO.-CP 25WB+
***BEARING THE UL CLASSIFICATION MARKING**

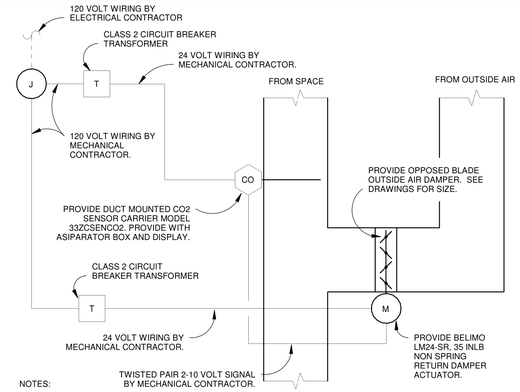
4 / M2.2 PENETRATION DETAIL
N.T.S.



NOTE:

VENT SHALL EXTEND AT LEAST 2 ft ABOVE THE HIGHEST POINT OF PENETRATION AND AT LEAST 2 ft HIGHER THAN ANY PORTION OF THE BUILDING WITHIN 10 ft.

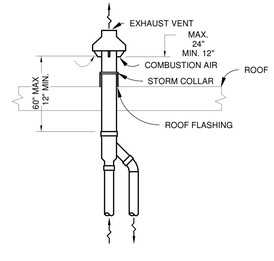
3 / M2.2 FLUE DETAIL
N.T.S.



NOTES:

- ALL WIRING SHALL BE ROUTED IN 1/2 CONDUIT.
- MECHANICAL CONTRACTOR SHALL PROVIDE ALL WIRING, RELAYS, CONTACTORS, ETC. FOR A COMPLETE AND OPERATIONAL SYSTEM.
- SENSOR SHALL BE CALIBRATED EVERY 6 MONTHS.
- SENSOR SHALL MODULATE OUTSIDE AIR DAMPER WHEN CARBON DIOXIDE CONCENTRATIONS EXCEED 900 PPM.
- PROVIDE THIS CONFIGURATION FOR GF-4.

2 / M2.2 CO2 MONITORING WIRING DETAIL
N.T.S.



1 / M2.2 CONCENTRIC VENT DETAIL
N.T.S.

OAKLEY COLLIER ARCHITECTS
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252-937-2500
305 W. Martin Street, Raleigh, NC 27601

ATLANTEC ENGINEERS, PA
3221 BLUE RIDGE ROAD, SUITE 113
RALEIGH, NC 27612
(919) 571-1111

1505 ST. JAMES PLACE
KINSTON, NC 28504
(252) 527-3336

NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

ATLANTEC ENGINEERS PA No. C-961
NORTH CAROLINA PROFESSIONAL CORPORATION

9/9/25
NORTH CAROLINA PROFESSIONAL SEAL 051195 ENGINEER PATRICK MCCABE

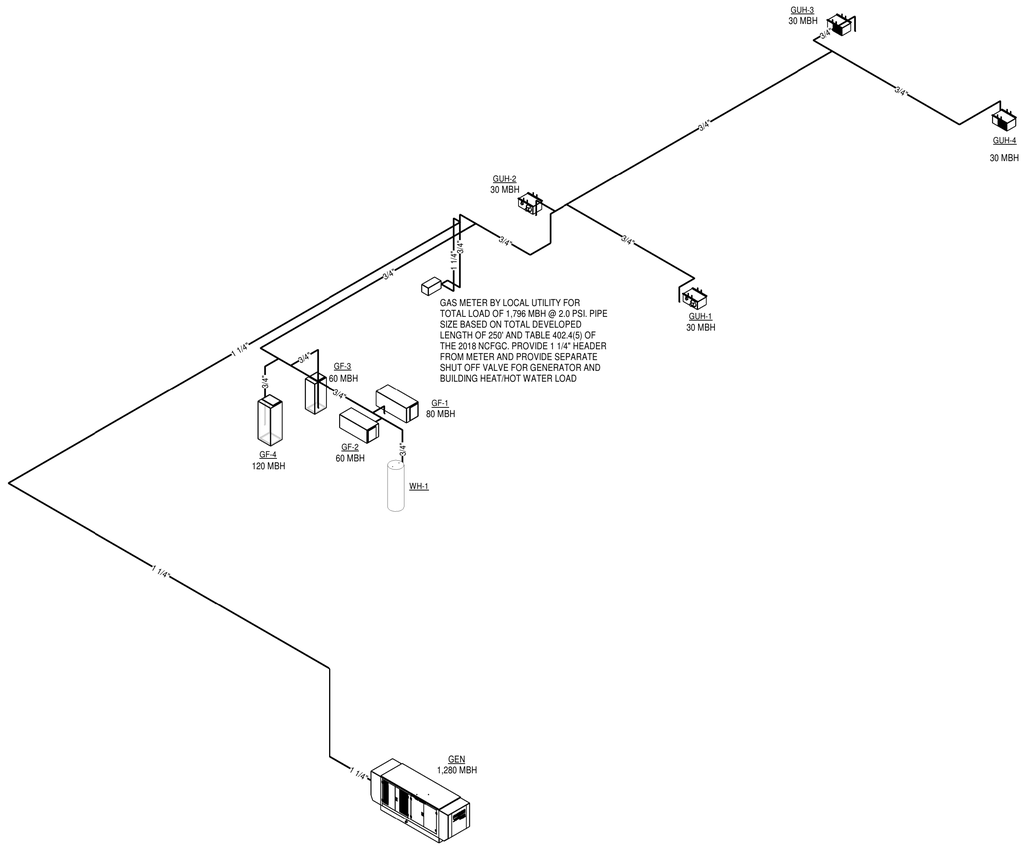
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

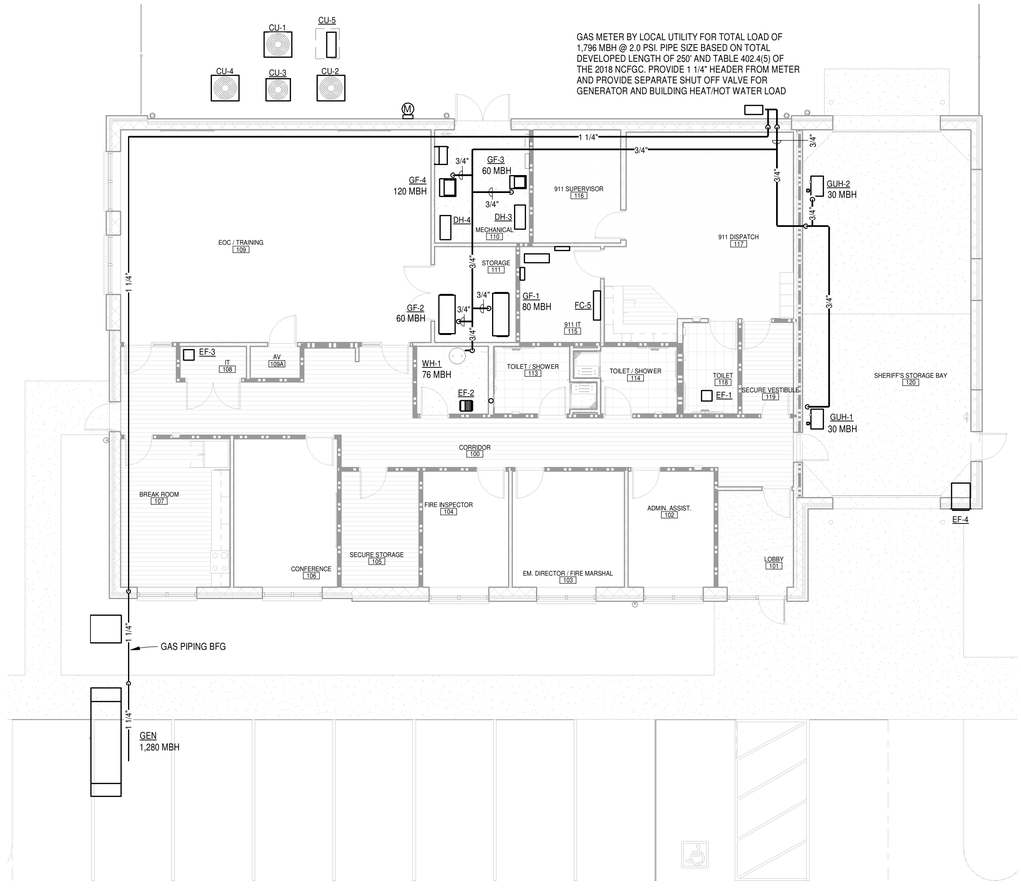
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: PJM	Sheet No.: M2.2
Checked By: PJM	

Sheet Title: MECHANICAL DETAILS



2 M2.3 GAS RISER



1 M2.3 GAS PIPING PLAN

1/8" = 1'-0"

OAKLEY COLLIER ARCHITECTS
OCA
109 Candlewood Road, Rocky Mount, NC 27804 (P) 252-937-2500
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NORTH CAROLINA REGISTERED PROFESSIONAL CORPORATION ATLANTEC ENGINEERS PA No. C-961

9/9/25
NORTH CAROLINA REGISTERED PROFESSIONAL SEAL 051195 ENGINEER PATRICK J. MCCABE

GENERAL NOTE:
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Revisions
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: PJM	Sheet No.: M2.3
Checked By: PJM	

Sheet Title: GAS PIPING PLAN

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	2 X 4 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	2 X 2 LAY-IN FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LED HIGH BAY FIXTURE FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LINEAR PENDANT/SURFACE MOUNT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	CAN LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	LED TAPE LIGHT - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EXTERIOR WALL LIGHT FIXTURE - LETTER DESIGNATES TYPE	SEE FIXTURE SCHED.
	EMERGENCY WITH EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	EXIT LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
	BATTERY BACKUP EMERGENCY LIGHT - CONNECT UNSWITCHED	SEE FIXTURE SCHED.
PC	PHOTOCELL, 105-305VAC, 50/60HZ, 1800VA BALLAST LOAD 1000W TUNGSTEN LOAD, 8A LED LOAD (UP TO 2220W @277V)	TORK: ZSS124
S	SINGLE POLE TOGGLE SWITCH. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.	HUBBELL CS1221-** WITH S1 COVER PLATE
S_3	THREE WAY TOGGLE SWITCH. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.	HUBBELL CS1223-** WITH S1 COVER PLATE
S_{DM}	OCCUPANCY SWITCH. DUAL TECHNOLOGIES. 0-10V DIMMING. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.	TOUCHE: SW-O-D-DIM-*-S2
S_{OH}	OVERHEAD DOOR CONTROL. PROVIDE 3/4" CONDUIT WITH PULL WIRE AS REQUIRED. MOUNT 42" A.F.F. UNLESS NOTED OTHERWISE.	JUNCTION BOX AS REQUIRED. DEVICE BY OTHERS.
S_{TS}	COLOR MINI TOUCHSCREEN WALL STATION MOUNT 42" A.F.F. UNLESS OTHERWISE NOTED.	TOUCHE: WS-C-MINI
S_M	WALL MOUNTED OCCUPANCY SENSOR SWITCH. DUAL TECHNOLOGIES MOUNT 42" A.F.F UNLESS NOTED OTHERWISE.	TOUCHE: SW-O-D-*-S2
M	CEILING MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGIES. LOW VOLTAGE. PROVIDE LOW VOLTAGE WIRE AS REQUIRED.	TOUCHE: SMAOS-D-360-L-F-W
RM	ROOM MANAGER. (2) 0-10V DIMMING CHANNELS (2) BRANCH PORTS (2) SMART PORTS (2) DIGITAL INPUT PORTS (2) DIGITAL OUTPUT PORTS	TOUCHE: RM
	COMMUNICATIONS OUTLET - MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED. SINGLE GANG BOX WITH 3/4"C STUB CONDUIT TO ACCESSIBLE CEILING SPACE DEVICE FURNISHED AND INSTALLED BY OTHERS	SINGLE GANG BOX
K	CARD READER OUTLET - MOUNT 42" A.F.F. UNLESS OTHERWISE NOTED. SINGLE GANG BOX WITH 3/4"C STUB CONDUIT TO ACCESSIBLE CEILING SPACE DEVICE FURNISHED AND INSTALLED BY OTHERS	SINGLE GANG BOX
	SPECIFICATION GRADE TAMPER RESISTANT DUPLEX RECEPTACLE. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL BR20-**-TR WITH S8 COVER PLATE
GFI	SPECIFICATION GRADE TAMPER RESISTANT GFCI DUPLEX RECEPTACLE. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL GFTR20-** WITH S26 COVER PLATE
WP	SPECIFICATION GRADE TAMPER RESIATANT AND WEATHER RESISTANT GFCI DUPLEX RECEPTACLE WITH IN-USE WEATHER PROOF COVER. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL GFTR20-** WITH WP26M COVER PLATE
GFI	SPECIFICATION GRADE TAMPER RESISTANT GFCI DUPLEX RECEPTACLE. MOUNT 4" ABOVE COUNTER/BACKSPLASH	HUBBELL GFTR20-** WITH S26 COVER PLATE
EWC	SPECIFICATION GRADE DUPLEX RECEPTACLE FOR WATER COOLER. MOUNT 24" A.F.F. FOR CONCEALMENT OF CORD. LOCATED IN EWC COVER. FED FROM GFCI CIRCUIT BREAKER.	HUBBELL CR5362-** WITH S8 COVER PLATE
	SPECIFICATION GRADE DUPLEX RECEPTACLE MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED. FED FROM GFCI CIRCUIT BREAKER.	HUBBELL CR5362-** WITH S8 COVER PLATE
	SPECIFICATION GRADE TAMPER RESISTANT QUAD RECEPTACLE. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL (2) CR5362-**-TR WITH S82 COVER PLATE
'AMP'	250 VOLT RECEPTACLE WITH GROUND, 'AMP' DESIGNATED RATING. FIELD VERIFY NUMBER OF POLES AND NEUTRAL REQUIREMENTS. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED.	HUBBELL TO MATCH EQUIPMENT
IG	SPECIFICATION GRADE ISOLATED GROUND TAMPER RESISTANT QUAD RECEPTACLE. MOUNT 16" A.F.F. UNLESS OTHERWISE NOTED. 'BLUE COLOR'	HUBBELL (2) IG5352ITR WITH S82 COVER PLATE
IG	250 VOLT RECEPTACLE WITH ISOLATED GROUND. 30A RATED. FIELD VERIFY NUMBER OF POLES AND NEUTRAL REQUIREMENTS. INSTALL PER OWNER INSTRUCTION.	HUBBELL TO MATCH EQUIPMENT
J	JUNCTION BOX SIZED PER N.E.C	PER N.E.C.
	DISCONNECT SWITCH SEE PLANS FOR SIZE AND TYPE	SQUARE D HEAVY DUTY
	NEW CONCEALED WIRING	PER N.E.C.
	UNSWITCHED LIGHTING CONDUCTOR	PER N.E.C.
	LOW VOLTAGE WIRE AS REQUIRED	PER N.E.C.
	HOME RUN TO PANEL BOARD	PER N.E.C.
	120/208V 3Ø, 4W PANEL BOARD - SEE PANEL SCHEDULES	SQUARE D: NQ
A.F.C.	ABOVE FINISHED CEILING	
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	

NOTES:

1. E.C. SHALL SUBMIT CATALOG SHEETS FOR COLOR AND MATERIAL APPROVAL OF ALL SWITCHES, RECEPTACLES, AND WALL PLATES TO ARCHITECT PRIOR PURCHASING ANY.
2. ISOLATED GROUND DEVICES SHALL BE BLUE IN COLOR.

GENERAL NOTES

1. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR FLOOR PLAN DIMENSIONS. DO NOT SCALE THESE DRAWINGS.
2. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ANY AND ALL WORK WITH OTHER TRADES INVOLVED IN THE PROJECT, PRIOR TO THE INSTALLATION OF HIS EQUIPMENT SO AS TO AVOID CONFLICTS DURING CONSTRUCTION AND TO ALLOW FOR OPTIMUM MAINTENANCE AND WORKING SPACE.
3. USE OF THE CONDUIT SYSTEM FOR EQUIPMENT GROUNDING SHALL NOT BE ACCEPTABLE. A SEPARATE GREEN GROUND WIRE SHALL BE RUN WITH THE CIRCUIT CONDUCTORS IN EACH CONDUIT.
4. ALL BREAKER SIZES, SHOWN FOR MECHANICAL EQUIPMENT, SHALL BE VERIFIED BEFORE THE PURCHASE OR INSTALLATION OF SAID EQUIPMENT, WITH THE EQUIPMENT SUPPLIER AND THE MECHANICAL CONTRACTOR.
5. ALL WORK AND MATERIAL SHALL BE PROVIDED IN ACCORDANCE WITH THE STATE, LOCAL AND NATIONAL CODES, ORDINANCES AND 2020 NATIONAL ELECTRICAL CODE (NFPA 70).
6. EACH CONTRACTOR SHALL PROVIDE HIS OWN SUPPORT OF ALL DEVICES AND EQUIPMENT PROVIDED BY HIM AND SHALL SUPPORT SUCH EQUIPMENT PER APPROVED GOVERNING CODES OR PER APPROVAL OF THE ENGINEER. UNACCEPTABLE WORKMANSHIP OR MATERIALS SHALL BE REPLACED AT THE REQUEST OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
7. THE MOUNTING HEIGHTS AND LOCATIONS OF ALL WALL MOUNTED OUTLETS AND JUNCTION BOXES SHALL BE REVIEWED AND COORDINATED WITH THE ARCHITECT, PRIOR TO INSTALLATION FOR USE WITH THE ACTUAL EQUIPMENT, CASEWORK, AND MILLWORK TO BE FURNISHED.
8. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, AND RECEPTACLES UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS TO AND FINAL CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS. SEE DETAILS FOR CONNECTION TO EQUIPMENT PROVIDED BY MECHANICAL AND PLUMBING CONTRACTORS
9. PENETRATION:
   - WHERE ELECTRICAL EQUIPMENT PENETRATES RATED WALLS AND CEILINGS, EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED PER APPROVED UL METHODS.
   - WHERE ELECTRICAL EQUIPMENT PENETRATES EXTERIOR WALLS, THEY SHALL BE PROPERLY SEALED WITH METHODS APPROVED BY THE ENGINEER. SUBMIT DETAIL OF PROPOSED SEALING METHODS.
10. ALL PERMITS AND INSPECTION FEES SHALL BE SECURED AND PAID BY THE ELECTRICAL CONTRACTOR.
11. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR.
12. THE CONTRACTOR SHALL PROVIDE COMPLETE UPDATED TYPEWRITTEN PANEL SCHEDULES FOR ALL PANELBOARDS.
13. AS BUILT DRAWINGS SHALL BE GIVEN TO THE OWNER AT THE COMPLETION OF THE PROJECT.
14. THE CONTRACTOR SHALL VERIFY THE CEILING TYPES WITH THE GENERAL CONTRACTOR PRIOR TO THE PURCHASE OF ANY LIGHT FIXTURES SO THAT THE PROPER TRIM WILL BE PROVIDED FOR ALL FIXTURES. ANY DIFFERENCES WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
15. ALL WIRE SIZES INDICATED ON THE PANEL SCHEDULES ARE BASED ON 75 DEGREE COPPER THHN/THWN WIRE. ALL WIRE TERMINALS AND EQUIPMENT SHALL BE LISTED AND APPROVED FOR 75°C. ONLY THWN-2 WIRE SHALL BE INSTALLED IN WET AND EXTERIOR LOCATION.
16. MINIMUM CONDUIT SIZE SHALL BE 1/2" AND MINIMUM WIRE SIZE SHALL BE #12 AWG.
17. ARMORED CABLE (TYPE AC) AND METAL-CLAD CABLE (TYPE MC) ARE ACCEPTABLE WIRING METHODS SUBJECTED TO THE FOLLOWING RESTRICTIONS:
   - SEE NEC 320 AND 330 FOR RESTRICTION.
   - PENETRATIONS OF RATED WALLS SHALL BE IN ACCORDANCE WITH APPROVED UL PENETRATION METHODS.
   - CABLE SHALL NOT BE USED FOR HOME RUN TO PANEL BOARD.
   - CABLE SHALL ONLY BE INSTALLED IN CONCEALED SPACE AND FURRED AREAS.
18. THE MAXIMUM NUMBER OF HOMERUNS IN A CONDUIT SHALL NOT EXCEED THREE (3). FEEDING CIRCUITS WITH SHARED NEUTRAL SHALL BE SWITCHED TOGETHER.
19. WHERE OUTLETS ARE SHOWN BACK TO BACK ON RATED WALLS, STAGGER OUTLETS SO THAT THEY ARE SEPARATED BY A MINIMUM OF 24".
20. ALL DISCONNECTS SHALL HAVE SEPARATE NEUTRAL AND GROUND BARS.
21. ALL PANELS SHALL BE THREE PHASE, FOUR WIRE UNLESS OTHERWISE NOTED.
22. BOXES AND CONDUITS SHALL NOT BE INSTALLED RECESSED IN A 3-HOUR OR HIGHER RATED WALL. WHEN OUTLETS ARE INDICATED ON THESE WALLS, FIELD COORDINATE CONDUIT AND BOX INSTALLATION.
23. FOR ALL RECEPTACLES LOCATED ABOVE COUNTER TOP, MOUNTING HEIGHT SHALL COMPLY WITH ANSI A117.1, SECTION 308. E.C. SHALL FIELD VERIFY CASEWORK DETAIL WITH ARCHITECT PRIOR TO ROUGH-IN.
24. ALL SWITCHES, RECEPTACLES AND DISCONNECTS SHALL BE LABELED WITH THEIR RESPECITVE CIRCUIT NUMBER.
25. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE INSTALLATION OF THE NEW UNDERGROUND ELECTRICAL SERVICE WITH THE LOCAL UTILITY. THE OWNER SHALL PAY ALL CHARGES FOR THE INSTALLATION OF THE NEW UNDERGROUND UTILITY SERVICE.
26. THE ELECTRICAL CONTRACTOR SHALL FIELD COORDINATE THE LOCATION OF HIS COMMUNICATION CONDUIT STUB OUTS WITH THE LOCAL COMMUNICATION SERVICE COMPANY PRIOR TO HIS INSTALLING ANY CONDUITS.
27. CONDUIT INSTALLATION IN EXTERIOR WALL AIR CAVITIES SHALL NOT BE PERMITTED.
28. ELECTRICAL IDENTIFICATION
   - FURNISH AND INSTALL ENGRAVED LAMINATED PHENOLIC NAMEPLATES FOR ALL SAFETY SWITCHES, PANEL BOARDS, TRANSFORMERS, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER ELECTRICAL EQUIPMENT SUPPLIED FOR THE PROJECT FOR IDENTIFICATION.
   - FURNISH AND INSTALL SELF-ADHESIVE PLASTIC TAPE FOR ALL RECEPTACLE AND WALL SWITCH COVER PLATES INDICATING CIRCUIT NUMBERS.
29. PROVIDE SEISMIC RESTRAINT AS REQUIRED PER ASCE 7-10 CHAPTER 13. SEE APPENDIX B FOR SEISMIC DESIGN CATEGORY AND RISK FACTOR INFORMATION.
30. THE GENERATOR SET SHALL BE WARRANTED BY THE GENERATOR SET MANUFACTURER FOR ONE YEAR FROM THE DATE OF ACCEPTANCE. EXTENDED WARRANTY AND MAINTENANCE SHALL BE MADE AVAILABLE TO THE OWNER AFTER THE DATE OF ACCEPTANCE.
31. THE GENERATOR SET SHALL RECEIVE THE MANUFACTURER'S STANDARD FACTORY LOAD TESTING. PRIOR TO ACCEPTANCE OF THE INSTALLATION, EQUIPMENT SHALL BE TESTED TO SHOW THAT IT IS FREE OF ANY DEFECTS, AND WILL START AUTOMATICALLY, AND BE SUBJECTED TO A FULL LOAD TEST.
32. ON COMPLETEION OF THE GENERATOR INSTALLATION, START-UP SHALL BE PERFORMED BY A FACTORY-TRAINED DEALER SERVICE REPRESENTATIVE. A LETTER SHALL BE WRITTEN TO THE ENGINEER FROM THE FACTORY-TRAINED DEALER, CERTIFYING THE SYSTEM HAS BEEN INSTALLED AND FIELD TESTED TO MEET THE ABOVE PERFORMANCE REQUIREMENTS.
33. OPERATING AND MAINTENANCE INSTRUCTION BOOKS FOR THE GENERATOR SHALL BE SUPPLIED UPON DELIVERY OF THE UNIT AND PROCEDURES EXPLAINED TO THE OPERATING PERSONNEL.
34. THE UPS SHALL RECEIVE THE MANUFACTURER'S STANDARD FACTORY TESTING. A QUALIFIED, FACTORY-TRAINED MANUFACTURER'S REPRESENTATIVE SHALL ASSIST THE CONTRACTOR IN THE INSTALLATION AND START-UP OF THE EQUIPMENT. UPON COMPLETION OF START-UP, THE CONTRACTOR SHALL PROVIDE A COPY OF THE MANUFACTURER'S FIELD START-UP REPORT TO THE ENGINEER.

ELECTRICAL DESIGN SUMMARY
MAIN BUILDING

ELECTRICAL SYSTEMS AND EQUIPMENT

METHOD OF COMPLIANCE: **Energy Code:** ☒ **Prescriptive** ☐ **Performance**

ASHRAE 90.1: ☐ **Prescriptive** ☐ **Performance**

LIGHTING SCHEDULE

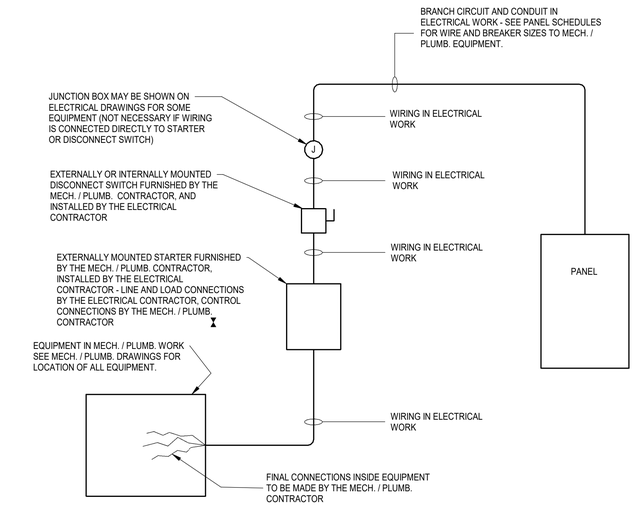
LAMP TYPE REQUIRED IN FIXTURE:	SEE FIXTURE SCHEDULE
NUMBER OF LAMPS IN THE FIXTURE:	SEE FIXTURE SCHEDULE
BALLAST TYPE USED IN THE FIXTURE:	SEE FIXTURE SCHEDULE
NUMBER OF BALLASTS IN THE FIXTURE:	SEE FIXTURE SCHEDULE
TOTAL WATTAGE PER FIXTURE:	SEE FIXTURE SCHEDULE
TOTAL INTERIOR WATTAGE: SPECIFIED VS. ALLOWED (WHOLE BUILDING OR SPACE BY SPACE)	3,083 VS 5,003
TOTAL EXTERIOR WATTAGE: SPECIFIED VS. ALLOWED	313 VS 750

ADDITIONAL EFFICIENCY PACKAGE OPTIONS
(WHEN USING THE 2018 NCECC; NOT REQUIRED FOR ASHRAE 90.1)

- ☐ C406.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE
- ☒ C406.3 REDUCED LIGHING POWER DENSITY
- ☐ C406.4 ENHANCED DIGITAL LIGHTING CONTROLS
- ☐ C406.5 ON-SITE RENEWABLE ENERGY
- ☐ C406.6 DEDICATED OUTDOOR AIR SYSTEM
- ☐ C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

DESIGNER STATEMENT:
TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DESIGN OF THIS BUILDING COMPLIES WITH THE ELECTRICAL SYSTEM AND EQUIPMENT REQUIREMENTS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 - ENERGY.

SIGNED: MCB
NAME: MATTHEW C. BRILEY, P.E.
TITLE: ENGINEER



NOTES:

1. A COMBINATION STARTER MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND A STARTER.
2. E.C. SHALL FURNISH ALL REQUIRED FUSES.

1 / E0.1 WIRING TO MECHANICAL AND PLUMBING EQUIPMENT
NOT TO SCALE

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 048828 MATTHEW C. BRILEY — ATLANTEC ENGINEERS PA No. C-961 NORTH CAROLINA ENGINEERING CORPORATION
BID SET

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 048828 MATTHEW C. BRILEY — 11/21/24
BID SET

GENERAL NOTE:
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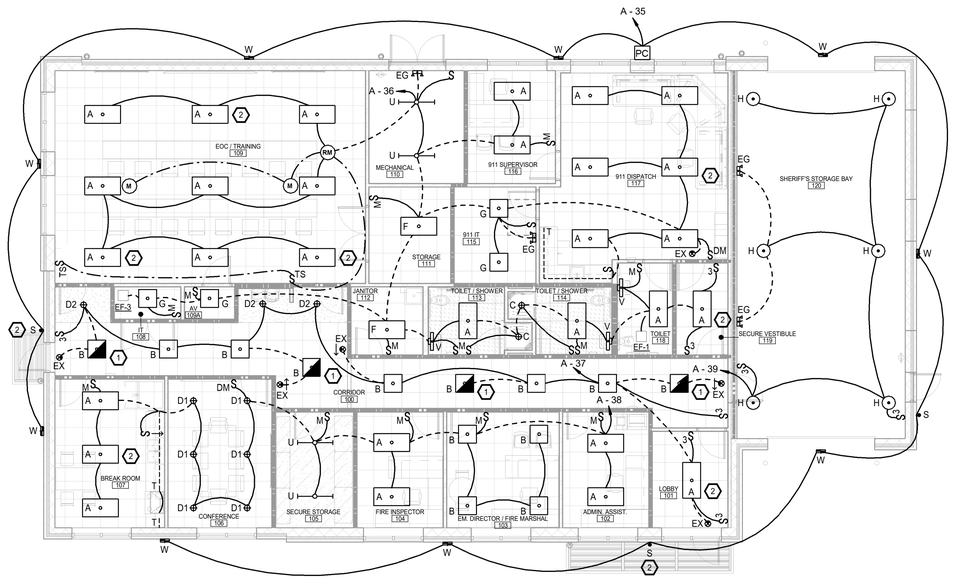
Revisions

#	Description	Date

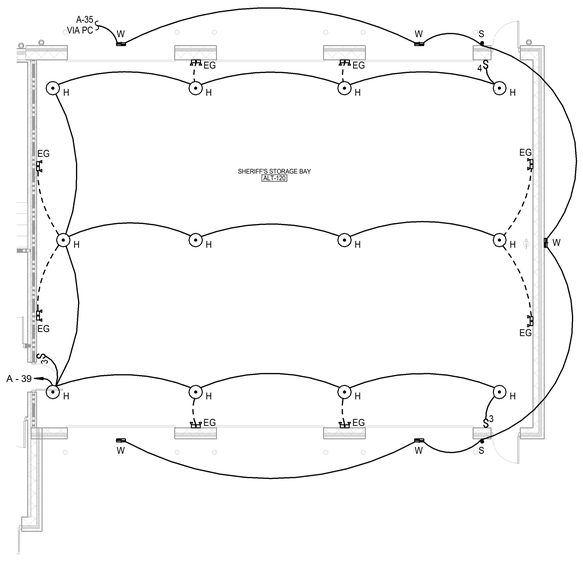
Date	Project No.
09.12.24	24017
Drawn By: MCB	Sheet No.: E0.1
Checked By: MCB	

Sheet Title:
LEGEND, NOTES, AND DETAILS



1 E1.1 LIGHTING PLAN

1/8" = 1'-0"



2 E1.1 ALTERNATE LIGHTING PLAN

1/8" = 1'-0"

RATED WALL LEGEND

2 HOUR RATED WALL

1 HOUR RATED WALL

KEY NOTES E1.1

1	LIGHT FIXTURE TO BE USED AS A NIGHT LIGHT AND EMERGENCY LIGHT. CONNECT NORMAL POWER AND BATTERY BACKUP UNSWITCHED AHEAD OF LIGHTING CONTROLS.
2	LIGHT FIXTURE TO BE USED AS AN EMERGENCY LIGHT. CONNECT BATTERY BACKUP AHEAD OF LIGHTING CONTROLS. WHERE APPLICABLE, FIXTURE SHALL RETURN TO FULL BRIGHTNESS UPON LOSS OF NORMAL POWER.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	CATALOG	ELECTRICAL DATA	NOTES
A	2X4 LED VOLUMETRIC LED FIXTURE RECESSED MOUNTING IC RATED 3000 LUMEN	LITHONIA: 2BLT4-30L-ADP-GZ10-LP835	3000 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 24 WATTS - 27 VA, 120-277V	WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: -EL14L
B	2X2 LED VOLUMETRIC LED FIXTURE RECESSED MOUNTING 2000 LUMEN	LITHONIA: 2BLT2-20L-ADP-GZ10-LP835	2000 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 16 WATTS - 18 VA, 120-277V	WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: -EL14L
C	6" LED WAFER FIXTURE RECESSED MOUNTING 1000 LUMEN LISTED FOR WET LOCATION	LITHONIA: WF6-LED-27K30K35K-90CRI	1000 LUMEN LED, 3500K ELECTRONIC DRIVER 13 WATTS - 14 VA, 120-277V	
D1	6" LED CAN LIGHT FIXTURE RECESSED MOUNTING IC RATED 2000 LUMEN	PRESCOLITE: HOUSING: LTR-6RD-H-ML-20L-DIM1-IC TRIM: LTR-6RD-T-ML-35K-9-WD-SS	2000 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 23 WATTS - 25 VA, 120-277V	ARCHITECT TO SELECT TRIM OPTIONS.
D2	4" LED CAN LIGHT FIXTURE RECESSED MOUNTING 1-HOUR FIRE RATED 1000 LUMEN	JUNO: IC1LEDFW-10LM-35K-90CRI-WFL-MVOLT-ZT10	1000 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 12 WATTS - 13 VA, 120-277V	ARCHITECT TO SELECT TRIM.
F	2X4 FLAT PANEL LED FIXTURE RECESSED MOUNTING 4000 LUMEN	LITHONIA: CPANL-2X4-AL06-SWW7-M2	4000 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 36 WATTS - 40 VA, 120-277V	
G	2X2 FLAT PANEL LED FIXTURE RECESSED MOUNTING 2200 LUMEN	LITHONIA: CPANL-2X2-AL01-SWW7-M4	2200 LUMEN LED, 3500K 0-10V DIMMING ELECTRONIC DRIVER 22 WATTS - 24 VA, 120-277V	
H	LED HI-BAY LIGHT FIXTURE PENDANT MOUNTING 18000 LUMEN WITH INTEGRAL OCCUPANCY SENSOR	LITHONIA: JEBL-18000LM-FRGL-MVOLT-40K-80CRI-SB0R10	18000 LUMEN LED, 4000K 0-10V DIMMING ELECTRONIC DRIVER 135 WATTS - 150 VA, 120-277V	INSTALL BOTTOM OF FIXTURE AT 15 FT. A.F.F.
S	EXTERIOR SCONCE FIXTURE WALL MOUNTING 1000 LUMEN X 2 LISTED FOR WET LOCATION	ALW LIGHTING: CSU6-10903035NN-10903035NN-RV01-1C	1000 LUMEN X 2 LED, 3000K 0-10V DIMMING ELECTRONIC DRIVER 15 WATTS - 16 VA, 120-277V	COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE INDICATED FOR USE AS AN EMERGENCY LIGHT, PROVIDE WITH OPTION: -EMB
T	LED TAPE LIGHT SURFACE MOUNTING 200LM/FT	JUNO: JFX-24V-200LM-*-35K-90CRI-DL-SLCH	200 LUMEN/FT LED, 3500K ELECTRONIC DRIVER 2 WATTS - 3 VA, 24V	SEE PLANS FOR LENGTHS. PROVIDE REMOTE DRIVERS AS REQUIRED. INSTALL DRIVERS IN A CONCEALED BUT ACCESSIBLE LOCATION. FIELD COORDINATE WITH ARCHITECT.
U	4 FT. LED STRIP LIGHT PENDANT MOUNTING 4000 LUMEN	LITHONIA: CLX-L48-4000LM-SEF-RDL-MVOLT-GZ10-35K-80CRI	4000 LUMEN LED, 3500K ELECTRONIC DRIVER 28 WATTS - 32 VA, 120-277V	PROVIDE MOUNTING ACCESSORIES AS REQUIRED.
V	2 FT. LED VANITY LIGHT WALL MOUNTING 1300 LUMEN	LITHONIA: FMVCSL-24IN-MVOLT-35K-90CRI	1300 LUMEN LED, 3500K ELECTRONIC DRIVER 18 WATTS - 20 VA, 120-277V	COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
W	EXTERIOR LED WALLPACK FIXTURE WALL MOUNTING 3000 LUMEN LISTED FOR WET LOCATION	LITHONIA: WDGE2-P3-30K-90CRI-VF-MVOLT	3000 LUMEN LED, 3000K ELECTRONIC DRIVER 23 WATTS - 25 VA, 120-277V	COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
EG	EMERGENCY LIGHT WITH BATTERY BACKUP	LITHONIA: EU2L-M12	(2) 0.75W LED HEADS 5 WATTS - 5 VA, 120/277V	
EX	EXIT LIGHT 1 SIDE RED LETTER WITH BATTERY BACKUP	LITHONIA: EDGR-1-R-EL	5 WATTS - 5 VA, 120/277V	

NOTES:

1. SEE ARCHITECTURAL PLAN FOR MOUNTING LOCATION AND HEIGHT. FIELD COORDINATE MOUNTING HEIGHT WITH ARCHITECT IF NOT SHOWN ON ARCHITECTURAL PLAN.
2. E.C. SHALL SUBMIT CATALOG TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING. FINISH COLOR/TRIM SUBJECT TO BE CHANGED PER ARCHITECT.
3. LED COLOR:
   1. INTERIOR: 3500K UNLESS OTHERWISE NOTED.
   2. EXTERIOR: 3000K UNLESS OTHER WISE NOTED.
   3. FIELD VERIFY LED COLOR WITH ARCHITECT PRIOR TO ORDERING.

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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA NATIONAL CORPORATION ATLANTEC ENGINEERS PA No. C-961

BID SET

NORTH CAROLINA PROFESSIONAL SEAL 048828 ENGINEER MATTHEW C. BAILEY

12/24

BID SET

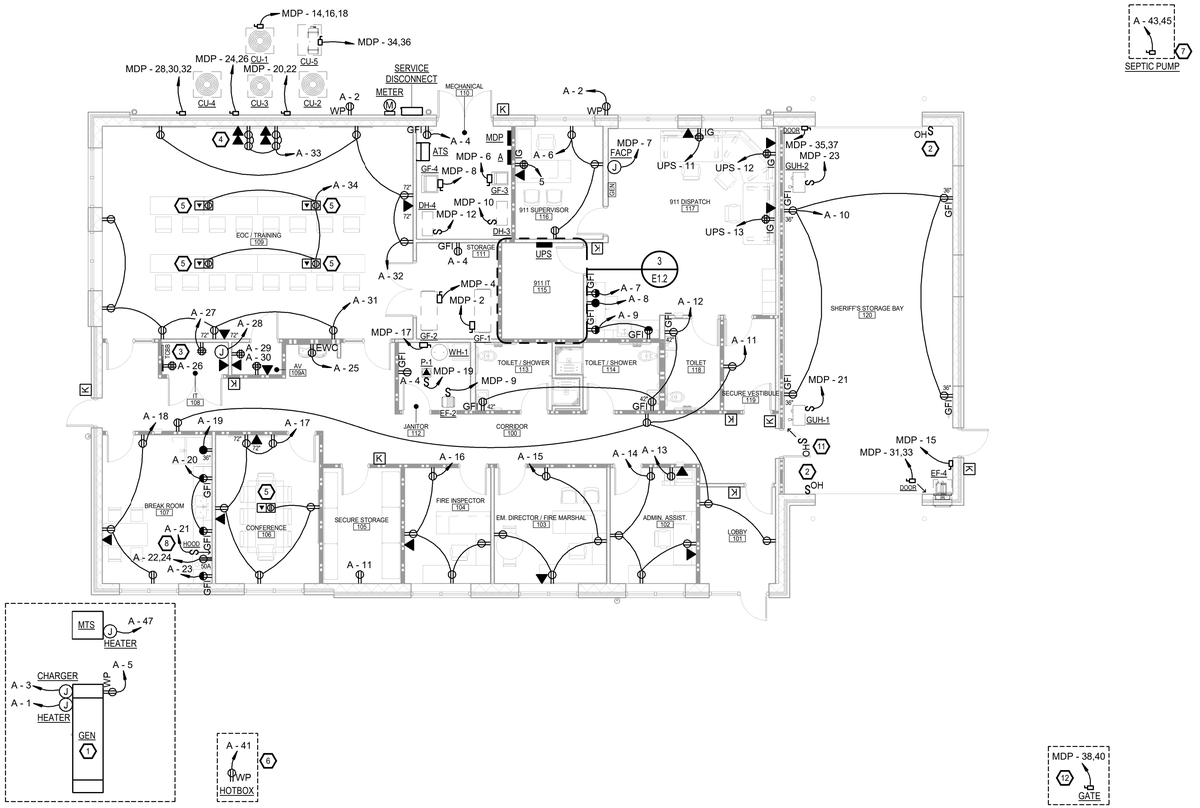
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions

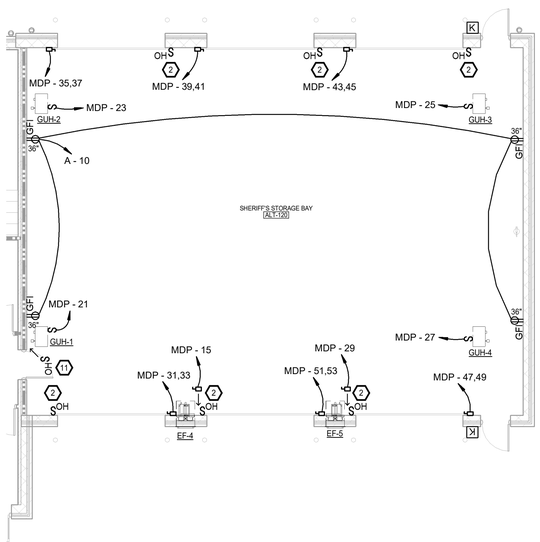
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: MCB	Sheet No.: E1.1
Checked By: MCB	

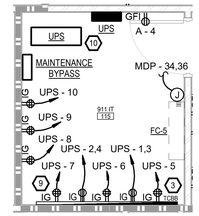
Sheet Title: LIGHTING PLAN



1 POWER PLAN
E1.2 — 1/8" = 1'-0"



2 ALTERNATE POWER PLAN
E1.2 — 1/8" = 1'-0"



3 ENLARGED POWER PLAN - 911 IT 115
E1.2 — 1/4" = 1'-0"

RATED WALL LEGEND

2 HOUR RATED WALL

1 HOUR RATED WALL

KEY NOTES E1.2

1	GENERATOR AND ATS TO BE INSTALLED AT EDGE OF PARKING LOT PER ARCHITECT INSTRUCTION. SEE CIVIL SITE PLAN FOR APPROXIMATE LOCATION AND FIELD COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
2	SWITCH CONTROL FOR OVERHEAD DOOR. FIELD COORDINATE INSTALLATION WITH ARCHITECT AND EQUIPMENT SUPPLIER. PROVIDE CONTROL WIRE AS REQUIRED BY MANUFACTURER INSTRUCTION.
3	TELECOMMUNICATION BACKBOARD. STUB 2-2" EMPTY CONDUITS WITH PULLWIRE TO PROPERTY LINE FOR TELECOM SERVICES PER SERVICE PROVIDER AND ARCHITECT INSTRUCTION. PROVIDE GROUND BAR AND 1-#6G CU IN 1/2" CONDUIT TO PANEL. MOUNT RECEPTACLES ON BOARD TO ACCOMODATE EQUIPMENT.
4	RECEPTACLES AND DATA OUTLETS FOR TV ARRAY. FIELD COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
5	FLUSH TO FLOOR BOX WITH DUPLEX RECEPTACLE AND DATA OUTLET. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND FURNITURE VENDOR PRIOR TO ROUGH-IN. PROVIDE 1-1" HUB FOR POWER AND 1-1 1/2" HUB FOR DATA. ROUTE CONDUITS TO NEAREST WALL AND STUB DATA CONDUIT UP TO ACCESSIBLE CEILING SPACE.
6	RECEPTACLE FOR HOTBOX. SEE CIVIL SITE PLAN FOR EXACT LOCATION. FIELD COORDINATE INSTALLATION WITH SITE CONTRACTOR PRIOR TO ROUGH-IN.
7	CONFIRM PUMP VOLTAGE WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE BUCK-BOOST TRANSFORMER AS REQUIRED. FIELD COORDINATE EXACT LOCATION AND INSTALLATION WITH EQUIPMENT PROVIDER. SEE CIVIL PLANS FOR DETAILS.
8	PROVIDE CONTROL FOR HOOD IN COMPLIANCE WITH ADA REQUIREMENTS. FIELD COORDINATE INSTALLATION WITH ARCHITECT. SEE ARCHITECTURAL ELEVATIONS FOR DETAILS.
9	E.C. TO FIELD COORDINATE THE INSTALLATION OF RECEPTACLES FOR IT EQUIPMENT WITH OWNER PRIOR TO ROUGH-IN. PROVIDE RECEPTACLES AS REQUIRE TO MATCH EQUIPMENT.
10	UPS SHALL HAVE THE CAPABILITY TO ANNUNCIATE REMOTELY: SOURCE POWER FAILURE, OVERVOLTAGE, UNDERVOLTAGE, HIGH AND LOW BATTERY VOLTAGE, AND UPS IN BYPASS. REMOTE ANNUNCIATION SHALL BE IN 911 DISPATCH 117.
11	CENTRAL SWITCH CONTROL FOR ALL OVERHEAD DOORS. FIELD COORDINATE EXACT LOCATION WITH ARCHITECT AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE CONDUIT TO INDIVIDUAL DOOR CONTROLS AS REQUIRED.
12	E.C. TO PROVIDE POWER TO SITE GATE AS REQUIRED. SEE CIVIL SITE PLAN FOR EXACT LOCATION. PROVIDE WITH ADDITIONAL 1" CONDUIT WITH PULLWIRE FROM ACCESSIBLE CEILING SPACE TO 36" WEATHERPROOF PEDESTAL FOR GATE ACCESS CONTROLS. INSTALL PEDESTAL PER MANUFACTURER INSTRUCTION. FIELD COORDINATE INSTALLATION WITH ARCHITECT AND EQUIPMENT SUPPLIER.

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PAMLICO COUNTY
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NORTH CAROLINA ENGINEERING CORPORATION — ATLANTEC ENGINEERS PA No. C-961

BID SET

11/1/24
NORTH CAROLINA PROFESSIONAL SEAL 048828 ENGINEER MATTHEW C. BRINEY
BID SET

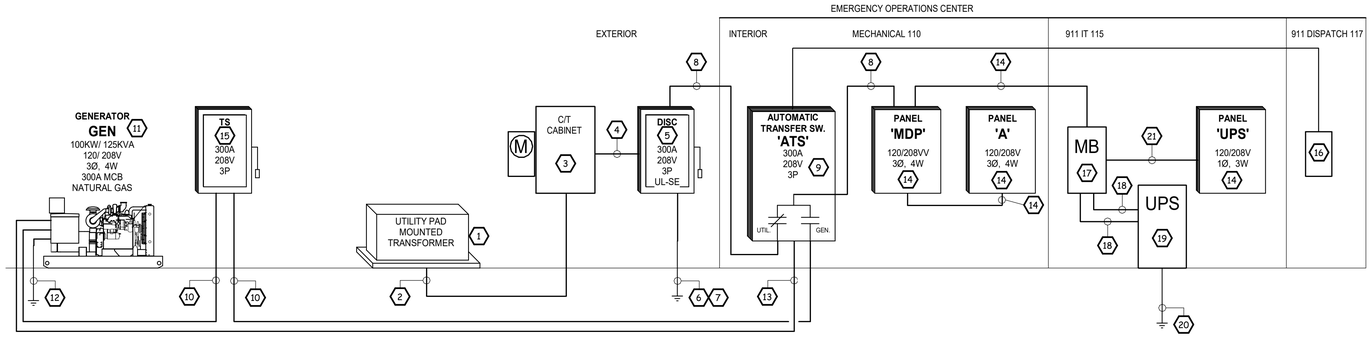
GENERAL NOTE:
Prior to construction start, Contractor shall verify & be responsible for all Dimensions.

Revisions

#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: MCB	Sheet No. E1.2
Checked By: MCB	

Sheet Title: POWER PLAN



KEY NOTES:

1. UTILITY PAD MOUNTED TRANSFORMER. 120/208V WYE SECONDARY. PAD BY E.C. PER UTILITY SPEC.
2. UNDERGROUND SERVICE CONDUCTORS 4-#350KCMIL IN 3"C
3. METER BASE AND C/T CABINET BY E.C. IN ACCORDANCE WITH LOCAL UTILITY.
4. SERVICE ENTRANCE CONDUCTORS 4-#350KCMIL IN 3"C
5. BUILDING SERVICE DISCONNECT.
   - 300A, 208VAC, 3P, NEMA 3R FUSIBLE DISCONNECT.
   - PROVIDE 300A FUSES, MIN. AIC RATING OF 35KA.
   - UL LISTED FOR USE AS SERVICE EQUIPMENT.
   - PROVIDE PLAQUE 'SERVICE DISCONNECT.
   - E.C. SHALL OBTAIN AVAILABLE FAULT CURRENT FROM ENGINEER AND PROVIDE PLAQUE INDICATES AVILABLE FAULT CURRENT ON DISCONNECT PER NEC 110.24(A).
6. GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
   - 1-#2G CU IN 1/2"C TO BUILDING STEEL AND C.W. MAIN
   - 1-#4G CU IN 1/2"C TO REINFORCE STEEL AT CONCRETE FOOTING.
   - 1-#6G CU IN 1/2"C TO 2 DRIVEN RODS.
7. BOND PER NEC 250.
   - 1-#2G CU IN 1/2"C TO GAS PIPE
8. 4-#350 KCMIL, 1-#4G IN 3"C
9. AUTOMATIC TRANSFER SWITCH.
   - 300A, 3P, 208V, MIN. AIC RATING OF 22KA.
   - WALL MOUNTED NEMA 1 ENCLOSURE.
   - FRONT ACCESS ONLY.
10. GENERATOR FEEDER. 4-#350 KCMIL, 1-#4G IN 3"C
11. LEGALLY-REQUIRED STANDBY NATURAL GAS GENERATOR
    - GENERAC SG100 OR EQUAL
    - 100KW/125KVA, 120/208V 3ϕ, 4W
    - 300A MAIN BREAKER
    - LEVEL 1 SOUND ATTENUATED ALUMINUM ENCLOSURE.
    - PROVIDE CONCRETE PAD AS REQUIRED.
    - PROVIDE WITH 120V JACKET HEATER AND 120V BATTERY CHARGER.
    - PROVIDE EMERGENCY SHUTDOWN SWITCH AT REMOTE LOCATION APPROVED BY AHJ. LABEL 'GENERATOR EMERGENCY SHUTDOWN'.
    - PROVIDE WITH REMOTE ANNUNCIATOR LOCATED INSIDE BUILDING. SEE PLAN FOR REMOTE ANNUNCIATOR LOCATION.
    - DO NOT BOND NEUTRAL TO GROUND BAR.
12. BOND PER NEC 250.
    - 1-#2G CU BOND FROM GROUND BAR TO GENERATOR CHASSIS
    - 1-#4G CU IN 1/2"C TO REINFORCE STEEL AT CONCRETE FOOTING.
    - 1-#6G CU IN 1/2"C TO 2 DRIVEN RODS.
13. GENERATOR CONTROL AND ANNUNCIATOR WIRING IN CONDUIT BETWEEN GENERATOR AND ATS.
14. SEE PANEL SCHEDULE FOR DETAILS.
15. PROVIDE NEW 3-WAY MANUAL TRANSFER SWITCH.
    - ESL TRIPLESWITCH OR EQUAL.
    - 300A RATED, 120/208V, 3P, 4W. MINIMUM 65KAIC RATED.
    - UL1008 LISTED. NEMA 3R, LOCKABLE ENCLOSURE.
    - PROVIDE WITH 120V HEATER/THERMOSTAT/DE-HUMIDISTAT
    - PROVIDE WITH AUXILIARY CONTACTS AS REQUIRED TO NOTIFY GENERATOR ANNUNCIATOR WHEN PERMANENT, LEGALLY-REQUIRED, STANDBY SOURCE IS DISCONNECTED.
    - PROVIDE WITH CAM LOCK CONNECTORS.
    - PROVIDE UNISTRUT STRUCTURE FOR INSTALLATION AS REQUIRED.
16. GENERATOR ANNUNCIATOR. PROVIDE ANNUNCIATOR WIRING AS REQUIRED FROM ATS.
17. PROVIDE NEW, WALL MOUNT MAINTENANCE BY-PASS FOR UPS.
    - EATON: BPM125HW OR EQUAL
    - HARDWIRED INPUT/OUTPUT CONNECTIONS
    - PROVIDE WITH 60A OUTPUT BREAKER.
18. 3-#6, 1-#8G IN 1"C.
19. PROVIDE NEW, FLOOR MOUNT UPS.
    - EATON: 9155 OR EQUAL
    - 15KVA RATED
    - SINGLE CABINET
    - HARDWIRED INPUT/OUTPUT CONNECTIONS
    - PROVIDE WITH INTERFACE TO ANNUNCIATE THE FOLLOWING:
      1. SOURCE POWER FAILURE, OVERVOLTAGE, AND UNDERVOLTAGE
      2. HIGH AND LOW BATTERY VOLTAGE
      3. UPS IN BYPASS MODE
20. GROUNDING ELECTRODE CONDUCTORS PER NEC 250.
    - 1-#8G CU IN 1/2"C TO BUILDING STEEL.
21. 3-#6, 1-#8G, 1-#8IG IN 1 1/4"C.

1 POWER RISER DIAGRAM

E2.1 NOT TO SCALE

EQUIPMENT AND SUB-PANEL FEEDER WIRE, CONDUIT AND STANDARD INVERSE TIME CIRCUIT BREAKER SIZES (BASED ON NEC TABLE 310-16 @75° C)				
BREAKER	WIRE SIZE (BASED UPON 75° RATING)	GROUND	3W & G	4W & G
15	#12	#12	1/2"	1/2"
20	#12	#12	1/2"	1/2"
25	#10	#10	1/2"	1/2"
30	#10	#10	1/2"	1/2"
35	#8	#10	3/4"	3/4"
40	#8	#10	3/4"	3/4"
45	#8	#10	3/4"	3/4"
50	#8	#10	3/4"	3/4"
60	#6	#10	3/4"	1"
70	#4	#8	1"	1-1/4"
80	#4	#8	1"	1-1/4"
90	#3	#8	1-1/4"	1-1/4"
100	#3	#8	1-1/4"	1-1/4"
110	#2	#6	1-1/4"	1-1/4"
125	#1	#6	1-1/4"	1-1/2"
150	#1/0	#6	1-1/2"	2"
175	#2/0	#6	2"	2"
200	#3/0	#6	2"	2"
225	#4/0	#4	2"	2-1/2"
250	#250	#4	2-1/2"	2-1/2"
300	#350	#4	3"	3"
350	#500	#3	3"	3-1/2"
400	(2) #3/0	(2) #3	(2) 2"	(2) 2"
450	(2) #4/0	(2) #2	(2) 2"	(2) 2-1/2"
500	(2) #250	(2) #2	(2) 2-1/2"	(2) 2-1/2"
600	(2) #350	(2) #1	(2) 3"	(2) 3"
700	(2) #500	(2) #1/0	(2) 3"	(2) 3-1/2"
800	(2) #600	(2) #1/0	(2) 3-1/2"	(2) 4"
900	(3) #350	(3) #2/0	(3) 2-1/2"	(3) 3"
1000	(3) #400	(3) #2/0	(3) 3"	(3) 3"
1200	(4) #350	(4) #3/0	(4) 3"	(4) 3"
1600	(5) #400	(5) #4/0	(5) 3"	(5) 3"

Branch Panel: MDP

Location: MECHANICAL 110 **Volts:** 120/208 3P 4W **A.I.C. Rating:** 22kA
Supply From: **Phases:** 3 **Mains Type:** Main Lug Only
Mounting: Surface **Wires:** 4 **Mains Rating:** 400 A
Enclosure: **Listing:**

Type:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1				10.0	1.7					1	20	GF-1	2
3	PANEL A	125	3			13.1	1.7			1	20	GF-2	4
5								10.4	1.7	1	20	GF-3	6
7	FACP - NOTE 1	20	1	0.5	1.9					1	20	GF-4	8
9	EF-2	15	1			0.5	0.7			1	15	DH-3	10
11								3.8	0.7	1	15	DH-4	12
13	UPS	60	2	3.4	1.5								14
15	EF-4	15	1			0.7	1.5			3	25	CU-1	16
17	WH-1	20	1					1.0	1.5				18
19	RECIRC PUMP P-1	15	1	0.5	1.4					2	25	CU-2	20
21	GUH-1	15	1			0.5	1.4						22
23	GUH-2	15	1					0.5	1.1	2	20	CU-3	24
25	GUH-3 - NOTE 2	20	1	0.5	1.1								26
27	GUH-4 - NOTE 2	20	1			0.5	2.0						28
29	EF-5 - NOTE 2	20	1					0.7	2.0	3	35	CU-4	30
31				0.6	2.0								32
33	OVERHEAD DOOR - NOTE 2	20	2			0.6	2.0			2	25	CU-5, FC-5	34
35								0.6	2.0				36
37				0.6	1.2					2	30	SITE GATE	38
39	OVERHEAD DOOR - NOTE 2	20	2			0.6	1.2						40
41								0.6	--	1	--	SPACE	42
43	OVERHEAD DOOR - NOTE 2	20	2	0.6	--					1	--	SPACE	44
45						0.6	--			1	--	SPACE	46
47	OVERHEAD DOOR - NOTE 2	20	2					0.6	--	1	--	SPACE	48
49				0.6	--					1	--	SPACE	50
51	OVERHEAD DOOR - NOTE 2	20	2			0.6	--			1	--	SPACE	52
53								0.6	--	1	--	SPACE	54
		Total Load:		28.2 kVA		28.1 kVA		27.7 kVA					
		Total Amps:		236 A		235 A		231 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTS	3867 VA	125.00%	4833 VA		
RECEPTACLE	19020 VA	76.29%	14510 VA	**Total Connected Load:**	84 kVA
MOTOR/COOLING	32916 VA	104.65%	34446 VA	**Total Est. Demand:**	82 kVA
HEATING	3000 VA	100.00%	3000 VA	**Total Conn.:**	233 A
WATER HEATER	960 VA	100.00%	960 VA	**Total Est. Demand:**	228 A
EQUIPMENT	24650 VA	100.00%	24650 VA		
KITCHEN EQUIP.	0 VA	0.00%	0 VA		

Notes:
1. E.C. TO PROVIDE LOCK-ON PROVISION.
2. E.C. TO PROVIDE A SEPARATE PRICE FOR BRANCH CIRCUIT. PART OF ALTERNATE BID.
3. PROVIDE WITH INTERNAL, 120KA-RATED, TYPE II SPD WITH DISCONNECT.

Branch Panel: A

Location: MECHANICAL 110 **Volts:** 120/208 3P 4W **A.I.C. Rating:** 22kA
Supply From: MDP **Phases:** 3 **Mains Type:** Main Lug Only
Mounting: Surface **Wires:** 4 **Mains Rating:** 225 A
Enclosure: **Listing:**

Type:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	GEN JACKET HEATER	20	1	1.5	0.4					1	20	EXTERIOR REC	2
3	GEN BATTERY CHARGER	20	1			1.2	0.7			1	20	REC 110,111,112,115	4
5	GEN SERVICE REC	20	1					0.2	0.5	1	20	REC 116	6
7	CTR TOP REC 117	20	1	0.2	0.5					1	20	UC REF 117 - NOTE 1	8
9	CTR TOP REC 117	20	1			0.4	0.7			1	20	REC 120	10
11	REC 100,101,105,119	20	1					1.1	0.5	1	20	REC 113,114,118	12
13	COPIER/PRINTER 102	20	1	1.2	0.7					1	20	REC 102	14
15	REC 103	20	1			0.7	0.7			1	20	REC 104	16
17	REC 106	20	1					1.3	0.5	1	20	REC 107	18
19	REF 107 - NOTE 1	20	1	1.0	0.4					1	20	CTR TOP REC 107	20
21	HOOD 107	20	1			0.6	2.4			2	50	RANGE REC 107 - NOTE 1	22
23	CTR TOP REC 107	20	1					0.2	2.4				24
25	EWC 100 - NOTE 1	20	1	0.5	0.4					1	20	QUAD REC 108	26
27	QUAD REC 108	20	1			0.4	0.5			1	20	ACCESS CONTROL PANEL	28
29	QUAD REC 109A	20	1					0.4	0.4	1	20	QUAD REC 109A	30
31	REC 109	20	1	0.9	0.7					1	20	REC 109	32
33	REC 109	20	1			0.7	1.4			1	20	FLOOR REC 109	34
35	EXTERIOR LTS	20	1					0.4	1.0	1	20	LTS 108-119	36
37	LTS 100,101	20	1	0.2	0.5					1	20	LTS 102-107	38
39	LTS 120	20	1			1.8	--			1	--	SPACE	40
41	HOT BOX REC	20	1					0.2	--	1	--	SPACE	42
43	SEPTIC PUMP	30	2	1.0	--					1	--	SPACE	44
45						1.0	--			1	--	SPACE	46
47	MTS HEATER	20	1					1.5	--	1	--	SPACE	48
49	SPARE	20	1	0.0	0.0					1	20	SPARE	50
51	SPARE	20	1			0.0	0.0			1	20	SPARE	52
53	SPARE	20	1					0.0	0.0	1	20	SPARE	54
		Total Load:		10.0 kVA		13.1 kVA		10.4 kVA					
		Total Amps:		83 A		110 A		87 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTS	3867 VA	125.00%	4833 VA		
RECEPTACLE	15780 VA	81.69%	12890 VA	**Total Connected Load:**	34 kVA
MOTOR/COOLING	667 VA	122.49%	817 VA	**Total Est. Demand:**	32 kVA
HEATING	3000 VA	100.00%	3000 VA	**Total Conn.:**	93 A
WATER HEATER	0 VA	0.00%	0 VA	**Total Est. Demand:**	88 A
EQUIPMENT	10550 VA	100.00%	10550 VA		
KITCHEN EQUIP.	0 VA	0.00%	0 VA		

Notes:
1. E.C. TO PROVIDE GFCI BREAKER.

Branch Panel: UPS

Location: 911 IT 115 **Volts:** 120/208 1P 3W **A.I.C. Rating:** 22kA
Supply From: MDP **Phases:** 1 **Mains Type:** MLO
Mounting: Surface **Wires:** 3 **Mains Rating:** 100 A
Enclosure: **Listing:**

Type:

CKT	Circuit Description	Trip	Poles	A		C		Poles	Trip	Circuit Description	CKT
1	IG 208V REC	30	2	1.0	1.0			2	30	IG 208V REC	2
3						1.0	1.0				4
5	IG QUAD REC 115	20	1	0.4	0.4			1	20	IG QUAD REC 115	6
7	IG QUAD REC 115	20	1			0.4	0.4	1	20	IG QUAD REC 115	8
9	IG QUAD REC 115	20	1	0.4	0.4			1	20	IG QUAD REC 115	10
11	IG QUAD REC 117	20	1			0.4	0.4	1	20	IG QUAD REC 117	12
13	IG QUAD REC 117	20	1	0.4	0.0			1	20	SPARE	14
15	SPARE	20	1			0.0	0.0	1	20	SPARE	16
17	SPARE	20	1	0.0	0.0			1	20	SPARE	18
19	SPARE	20	1			0.0	0.0	1	20	SPARE	20
21	SPACE	--	1	--	--			1	--	SPACE	22
23	SPACE	--	1			--	--	1	--	SPACE	24
25	SPACE	--	1	--	--			1	--	SPACE	26
27	SPACE	--	1			--	--	1	--	SPACE	28
29	SPACE	--	1	--	--			1	--	SPACE	30
		Total Load:		3.8 kVA		3.4 kVA					
		Total Amps:		36 A		33 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LIGHTS	0 VA	0.00%	0 VA		
RECEPTACLE	3240 VA	100.00%	3240 VA	**Total Connected Load:**	7 kVA
MOTOR/COOLING	0 VA	0.00%	0 VA	**Total Est. Demand:**	7 kVA
HEATING	0 VA	0.00%	0 VA	**Total Conn.:**	35 A
WATER HEATER	0 VA	0.00%	0 VA	**Total Est. Demand:**	35 A
EQUIPMENT	4000 VA	100.00%	4000 VA		

Notes:
1. PROVIDE WITH INTERNAL, 120KA-RATED, TYPE II SPD WITH DISCONNECT.

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NEW CONSTRUCTION FOR:

EOC / 911 DISPATCH

PAMLICO COUNTY
100 N. THIRD STREET, BAYBORO, NC 28515

NORTH CAROLINA ATLANTEC ENGINEERS PA No. C-961 PROFESSIONAL CORPORATION

BID SET

NORTH CAROLINA PROFESSIONAL SEAL 048828 ENGINEER MATTHEW C. BRILEY 9/4/24

BID SET

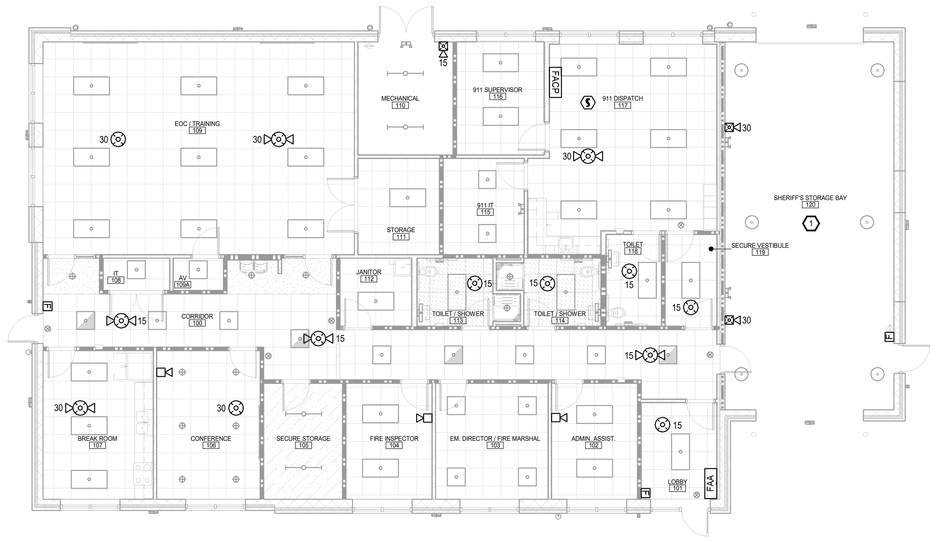
GENERAL NOTE:
Prior to construction start. Contractor shall verify & be responsible for all Dimensions.

Revisions		
#	Description	Date

Date	Project No.
09.12.24	24017
Drawn By: MCB	Sheet No.: E2.1
Checked By: MCB	

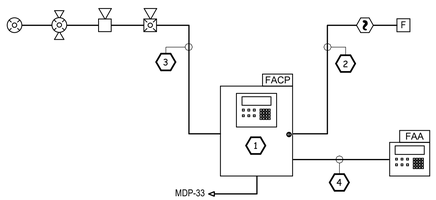
Sheet Title: POWER RISER, PANEL SCHEDULES

KEY NOTES 1/FA0.1	
1	IF ALTERNATE BID IS ACCEPTED, INCLUDE PRICING FOR (2) ADDITIONAL 30 CANDELA STROBES TO BE INSTALLED ON THE WALL OPPOSITE OF THE HORN/STROBES IN THE BASE BID IN SHEFIFF'S STORAGE BAY 120. ALSO INCLUDE ONE ADDITIONAL PULL STATION TO BE LOCATED AT THE ADDITIONAL EXIT DOOR.



1 FA0.1 FIRE ALARM PLAN

1/8" = 1'-0"



KEY NOTES:

1. ADDRESSABLE FACP
   PROVIDE ADDITIONAL NAC PANEL AS REQUIRED.
2. ADDRESSABLE CIRCUIT.
3. NOTIFICATION APPLIANCE CIRCUIT AS REQUIRED.
4. ANNUNCIATOR CIRCUIT.

NOTES:

1. THIS FACILITY IS AN EMERGENCY OPERATION (911) CALL CENTER. THE FACP DOES NOT NEED TO DIAL OUT.

2 FA0.1 FIRE ALARM RISER

NOT TO SCALE

SYMBOL LEGEND

SYMBOL	DESCRIPTION	REMARKS
	SMOKE DETECTOR, PHOTOELECTRIC ADDRESSABLE.	FIRELITE, EST, SIEMENS, SIMPLEX
F	FIRE ALARM PULL STATION. MOUNT 42" A.F.F. ADDRESSABLE.	FIRELITE, EST, SIEMENS, SIMPLEX
'XX'	FIRE ALARM STROBE/HORN. MOUNT 80" A.F.F. 75 dBA SOUND LEVEL, 'XX' INDICATES CANDELA RATING. 'WP' INDICATES WEATHERPROOF TYPE	FIRELITE, EST, SIEMENS, SIMPLEX
	FIRE ALARM MINI HORN. MOUNT 80" A.F.F. 75 dBA SOUND LEVEL	FIRELITE, EST, SIEMENS, SIMPLEX
'XX'	FIRE ALARM CEILING STROBE/HORN. 75 dBA SOUND LEVEL, 'XX' INDICATES CANDELA RATING. 'WP' INDICATES WEATHERPROOF TYPE	FIRELITE, EST, SIEMENS, SIMPLEX
'XX'	FIRE ALARM CEILING STROBE. 'XX' INDICATES CANDELA RATING.	FIRELITE, EST, SIEMENS, SIMPLEX
FACP	FIRE ALARM CONTROL PANEL, FLUSH MOUNTED. ADDRESSABLE	FIRELITE, EST, SIEMENS, SIMPLEX
FAA	FIRE ALARM REMOTE ANNUNCIATOR, FLUSH MOUNTED. ADDRESSABLE. MOUNT 42" A.F.F.	FIRELITE, EST, SIEMENS, SIMPLEX
A.F.F.	ABOVE FINISHED FLOOR - NOTE ALL MOUNTING DIMENSIONS GIVEN ARE TO THE BOTTOM OF THE OUTLET BOX	
A.F.C	ABOVE FINISHED CEILING	
B.F.G.	BELOW FINISHED GRADE	
	1 HOUR WALL	

FIRE ALARM NOTES

1. SEE PLANS FOR QUANTITY AND LOCATION OF ALL EQUIPMENT.
2. CONTRACTOR SHALL PROVIDE COMPLETE DOCUMENT PER 2018 FIRE CODE SECTION 907.1.1 AND 907.1.2 TO TO ENGINEER FOR APPROVAL PRIOR TO SUBMIT TO AND TESTING BY THE LOCAL COUNTY FIRE MARSHAL'S OFFICE.
3. PLACARD THE ENTIRE FIRE ALARM SYSTEM. PROVIDE PANEL AND CIRCUIT NUMBERS ON A NAME PLATE AFFIXED TO THE FACE OF THE FIRE ALARM CONTROL PANEL.
4. CONTRACTOR SHALL PROVIDE ZONE MAPS COMPLETE WITH ADDRESSES FOR EACH FIRE ALARM DEVICE IN WOODEN FRAME ADJACENT TO THE NEW FIRE ALARM CONTROL PANEL.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE BATTERY CALCULATIONS AND CUT SHEETS FOR FIRE ALARM SYSTEM TO ENGINEER FOR APPROVAL.
6. ALL WIRING SHALL BE SUPERVISED.
7. ALL WIRING SHALL BE PER MANUFACTURER'S SPECIFICATIONS.
8. ALL WIRING SHALL BE IN CONDUIT.
9. ADDRESSABLE SLC CIRCUIT REQUIREMENTS:
   A. WIRING SHALL BE 'CLASS B'
   B. MINIMUM CAPACITY OF ANALOG SENSORS PER LOOP SHALL BE 48.
   C. MINIMUM CAPACITY OF ADDRESSABLE MONITORING DEVICES PER LOOP SHALL BE 48.
   D. MINIMUM CAPACITY OF ADDRESSABLE CONTROL RELAY MODULES PER LOOP SHALL BE 48.
10. NOTIFICATION CIRCUIT REQUIREMENTS:
    A. WIRING SHALL BE 'CLASS B'.
    B. PROVIDE WITH 'SYNC MODULE' AS REQUIRED PER NFPA 72.
    C. FURNISH NOTIFICATION CIRCUITS AS REQUIRED TO ACCOMMODATE CIRCUIT LOADING. NO NOTIFICATION CIRCUIT SHALL BE LOADED TO MORE THAN 80% CAPACITY.
11. NOTIFICATION APPLIANCE RATINGS:
    A. PROVIDE SOUND (dB) AND CANDELA (Cd) RATINGS FOR ALL HORN/STROBE DEVICES PER NFPA 72. ALL VISIBLE NOTIFICATION APPLIANCES SHALL BE SYNCHRONIZED PER NFPA 72, 18.5.5.5.7 AND 18.5.3.6.
    B. A DECIBEL LEVEL OF (15 dB ABOVE AMBIENT ON NFPA 72, TABLE A.18.4.3) SHALL BE MAINTAINED IN ALL GENERAL AREAS AND 100 dB (15 dB ABOVE AN AMBIENT OF 85 dB IN NFPA 72, 18.4.3.1) SHALL BE MAINTAINED IN ALL MECHANICAL EQUIPMENT ROOMS PER NFPA 72 AND THE 2018 NORTH CAROLINA STATE BUILDING CODE (SECTION 907.6.2).

FIRE ALARM SYSTEM INPUT/OUTPUT MATRIX

SYSTEM OUTPUTS

FACP ANNUNCIATION | NOTIFICATION | REQUIRED FIRE SAFETY CONTROL

	SYSTEM INPUTS	A: ACTUATE COMMON ALARM SIGNAL INDICATOR	B: ACTUATE AUDIBLE ALARM SIGNAL	C: ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	D: ACTUATE AUDIBLE SUPERVISORY SIGNAL	E: ACTUATE COMMON TROUBLE SIGNAL INDICATOR	F: ACTUATE AUDIBLE TROUBLE SIGNAL	G: ACTUATE ZONE OR DEVICE ADDRESS ALARM INDICATOR	H: DISPLAY CHANGE OF STATUS	I: TRANSMIT GENERAL EVACUATION SIGNAL	J: TRANSMIT FIRE ALARM SIGNAL TO CENTRAL STATION	K: TRANSMIT SUPERVISORY SIGNAL TO CENTRAL STATION	L: TRANSMIT TROUBLE SIGNAL TO CENTRAL STATION	
1	FIRE ALARM SYSTEM AC POWER FAILURE					●	●						●	1
2	FIRE ALARM SYSTEM LOW BATTERY					●	●						●	2
3	OPEN CIRCUIT					●	●						●	3
4	GROUND FAULT					●	●						●	4
5	NOTIFICATION APPLIANCE CIRCUIT SHORT					●	●						●	5
6	BUILDING MANUAL PULL STATIONS	●	●					●	●	●	●			6
7	AREA SMOKE DETECTORS	●	●					●	●	●	●			7
8														8
9														9
10														10
11														11
12														12
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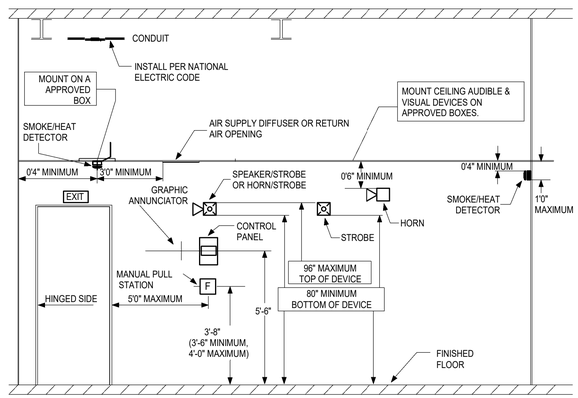
NFPA 72 AND ADA DEVICE INSTALLATION REQUIREMENTS



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Sheet Title: FIRE ALARM PLAN, RISER, LEGEND, NOTES, AND DETAILS