#### ADDENDUM NUMBER: ONE

**PROJECT:** Pamlico County EOC / 911 Dispatch

Bayboro, North Carolina Project Number 18068

DATE: October 9, 2024

**OWNER:** Pamlico County

302 Main Street PO Box 776

Bayboro, North Carolina 28515

**ARCHITECT:** Oakley Collier Architects, PA

109 Candlewood Road

Rocky Mount, North Carolina 27804

PREVIOUSLY ISSUED: None

#### **TO ALL CONTRACTORS:**

This Addendum is hereby made a part of the Contract Documents to the same extent as if originally included therein. This Addendum must be acknowledged on the Form of Proposal and shall be placed with the Contract Documents.

Drawings dated September 12, 2024, and Project Manual dated September 2024 for this project are hereby modified, corrected, or supplemented as follows:

#### **Substitution Requests**

Subject to requirements of plans and specifications, the following manufacturers are approved to bid:

Section	Section Title	Manufacturer / Product
03 30 00	Cast-In-Place Concrete	Sinak / LithiumCure 2000, Concrete Curing Agent
03 30 00	Cast-In-Place Concrete	Sinak / LithoHard, Penetrating Liquid Floor Treatment

**Specifications** 

Item <u>1</u> Change: Form of Proposal

Delete original Form of Proposal in its entirety and replace with the attached

Form of Proposal. Revisions were made to the Unit Prices.

Item 2 Change: Section 01 22 00 Unit Prices

Delete specification Section 01 22 00 Unit Prices in its entirety and replace with

the attached specification Section 01 22 00.

Item <u>3</u> Clarification: Section 01 21 00 – Allowances - Brick Allowance

Section 01 21 00, Item 1.04. A. 1. States "Include in the base bid amount an allowance of \$550 per 1000 brick for purchase and delivery of Face Brick." This includes any associated fees and sales tax for the material cost of the brick.

Item 4 Clarification: Section 06 41 00 – Architectural Wood Casework - Casework Interiors

Revise Section 06 41 00 – Architectural Wood Casework, Item 2.02. B. 2. to read:

2. Finish – Exposed Interior Surfaces: Melamine.

Item 5 Clarification: Section 28 31 00 – Addressable Fire Alarm System

Revise Section 21 31 00, Item 1.1(A) to read:

The Electrical Contractor shall provide a complete supervised <u>Class B</u> fire

alarm system as shown on the plans.

**Drawings** 

Item <u>1</u> Change: Sheet CE0.3 – Grading and Drainage – Stormwater Retention

Replace Sheet CE0.3 in its entirety. Revisions were made to the retention pond.

Revisions are clouded.

Item 2 Clarification: Sheet CE0.3 – Grading and Drainage - Site Lighting

Site Lighting will be by Duke Energy. Duke Energy will require ± 80 linear feet of empty conduit with pull wire under paved or gravel areas, depending on final lighting layout. A unit price for this conduit has been added to the Form of

Proposal.

Item 3 Change: Sheet A1.1 – Floor Plan & Sheet A1.4 – Reflected Ceiling Plan – Door Swing

Replace Sheet A1.1 – Floor Plan & Sheet A1.4 – Reflected Ceiling Plan in their entirety. Change swing of door 100A as shown. Door and architectural canopy have been moved 8" to allow for enough clearance at side of door. Move adjacent access control, light switch, and exterior sconce light fixture to latch side of door. Move the downspout for the canopy above to the hinge side of

door.

Item <u>3</u> Change: Sheet A1.4 – Reflected Ceiling Plan

In the Keynotes – RCP legend, revise keynote #3 to read:

ABOVE LAY-IN CEILING PROVIDE 2 LAYERS OF 5/8" 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).

CONTRACTOR MAY USE 7/8" METAL HAT CHANNELS AT 16" O.C. IN-LIEU

OF 1X2 FURRING.

Item 4 Change: Sheets E1.2 – Power Plan & Sheet E2.1 Power Riser, Panel Schedules

Replace Sheets E1.2 – Power Plan & Sheet E2.1 Power Riser, Panel Schedules in their entirety. Revisions include the addition of High-Volume Low Speed fans to the Sheriff's Storage Bay in both the Base Bid and the Alternate G-1 Bid plans, changes resulting from coordination with Duke Energy, and the removal of the requirement for a load bank connection on the MTS. All changes have been

clouded.

New Facility for Pamlico County EOC / 911 Dispatch

**End of Addendum** 

#### FORM OF SINGLE PRIME GENERAL CONTRACTOR PROPOSAL

New Facility for Pamlico County EOC / 911 Dispatch Architect's Project # 24017	Bidder: Date:	
The undersigned, as Bidder, hereby declares that as principal of principals is or are named herein any interest in this Proposal or in the contract to connection with any other person, company or prespects fair and in good faith without collusion examined the site of the Work and the Contract provisions furnished prior to the opening of bids; sperformed.	and that no other person than hereing be entered into; that this proposal parties making a bid or proposal; and nor fraud. The Bidder further declars Documents relative thereto and has	n mentioned has is made without d that it is in all ares that he has s read all special
The bidder proposes and agrees if this Proposal is of contract specified, to furnish all necessary mate of transportation, and labor necessary to comple <a href="Dispatch">Dispatch</a> in full accordance with the plans, specific satisfaction of <a href="Pamlico County">Pamlico County</a> with a definite un work except as set forth in the General Conditions	erials, equipment, machinery, tools, a ete the construction of the <u>Pamlico Co</u> cations, and contract documents, to the nderstanding that no money will be a	pparatus, means ounty EOC / 911 he full and entire allowed for extra
SINGLE PRIME CONTRACT:		
Base Bid:		
	Dollars(\$)	
Subcontractors:	License No.	Dollars(\$)
Site:		
Plumbing:		
Mechanical:		

Electrical:

ΔΙ	.TE	R	NΔ	TF	:ς

Should any of the alternates as described in the contract documents be accepted, the amount written below shall be the amount to be "added to" or "deducted from" the base bid. (Strike out "Add" or "Deduct" as appropriate.)

GENERAL CONTRACT:	
Alternate No. G-1: Additional Storage Bays (Add)(Deduct)	Dollars (\$)
UNIT PRICES	
Unit prices quoted and accepted shall apply throughout the life of the contr noted. Unit prices shall be applied, as appropriate, to compute the total value of the work all in accordance with the contract documents.	
GENERAL CONTRACT:	
Unit Price No. 1: Data Outlet and Conduit(Unit)	each Unit Price (\$)
Cost for additional 5 occurrences included in Base Bid	Price(\$)
Unit Price No. 2: Duplex Receptacle and Circuit( <i>Unit</i> )	each Unit Price (\$)
Cost for additional 5 occurrences included in Base Bid	Price(\$)
Unit Price No. 3: Undercut/Fill in Trench Excavations( <i>Unit</i> )	cu yd _Unit Price (\$)
Cost for additional 100 cu yds included in Base Bid	Price(\$)
Unit Price No. 4: Undercut / Fill in Open Excavations( <i>Unit</i> )	<u>cu yd</u> Unit Price (\$)
Cost for additional 250 cu yds included in Base Bid	Price(\$)
Unit Price No. 5: Conduit for Site Lighting, under paving ( <i>Unit</i> )	In ft Unit Price (\$)
Cost for 80 In ft included in Base Bid	Price(\$)

The Bidder further proposes and agrees hereby to commence work under this contract on a date to be specified in a written order of the Architect and shall fully complete all work within  $\underline{300}$  consecutive calendar days from date of commencement established in a Notice to Proceed.

Unit Price No. 6: Conduit for Building Power......(*Unit*) In ft Unit Price (\$)

Cost for 280 In ft included in Base Bid

Price(\$) \_\_\_\_\_

BIDDER further agrees to pay as liquidated damages, the sum of \$500 for each consecutive calendar day thereafter as provided in Article 15 of the General Conditions.

#### MINORITY BUSINESS PARTICIPATION REQUIREMENTS

<u>Provide with the bid</u> - Under GS 143-128.2(c) the undersigned bidder shall identify <u>on its bid</u> (Identification of Minority Business Participation Form) the minority businesses that it will use on the project with the total dollar value of the bids that will be performed by the minority businesses. <u>Also</u> list the good faith efforts (Affidavit A) made to solicit minority participation in the bid effort.

**NOTE**: A contractor that performs all of the work with its <u>own workforce</u> may submit an Affidavit (**B**) to that effect in lieu of Affidavit (**A**) required above. The MB Participation Form must still be submitted even if there is zero participation.

<u>After the bid opening</u> - The Owner will consider all bids and alternates and determine the lowest responsible, responsive bidder. Upon notification of being the apparent low bidder, the bidder shall then file within 72 hours of the notification of being the apparent lowest bidder, the following:

An Affidavit (**C**) that includes a description of the portion of work to be executed by minority businesses, expressed as a percentage of the total contract price, which is <u>equal to or more than the 10% goal</u> established. This affidavit shall give rise to the presumption that the bidder has made the required good faith effort and Affidavit **D** is not necessary;

\* OR \*

<u>If less than the 10% goal</u>, Affidavit (**D**) of its good faith effort to meet the goal shall be provided. The document must include evidence of all good faith efforts that were implemented, including any advertisements, solicitations and other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.

**Note**: Bidders must always submit <u>with their bid</u> the Identification of Minority Business Participation Form listing all MB contractors, <u>vendors and suppliers</u> that will be used. If there is no MB participation, then enter none or zero on the form. Affidavit A **or** Affidavit B, as applicable, also must be submitted with the bid. Failure to file a required affidavit or documentation with the bid or after being notified apparent low bidder is grounds for rejection of the bid.

#### PROPOSAL SIGNATURE PAGE

The undersigned further agrees that in the case of failure on his part to execute the said contract and the bond within ten (10) consecutive calendar days after written notice being given on the award contract, the check, cash or bid bond accompanying this bid shall be paid into the funds of the Owner's account set aside for the project, as liquidated damages for such failure; otherwise the check, cash or bid bond accompanying this proposal shall be returned to the undersigned.

Attach certified check, cash or bid bond to this proposal.

Respectfully submitted this	day of	20
Name of firm or corporation making bid		
WITNESS:	Ву:	
Proprietorship or Partnership	Title:(Owner, Partner, Pres., V	/. Pres.)
	Address:	
	License No:	
(Corporate Seal)	Federal ID No:	
ATTEST:		
Ву:		
Title: (Corp. Sec. or Asst. Sec. Only)		
Addenda received and used in computing	bid:	
Addendum No. 1	Addendum No. 3	
Addendum No. 2	Addendum No. 4	

For All Official Notices:		
Name and Title		
Name of Firm/Corporation		
Street Address, City, State and Zip		
Telephone and Fax Numbers		 

#### SECTION 01 22 00 UNIT PRICES

#### **PART 1 GENERAL**

#### 1.01 SECTION INCLUDES

- A. List of unit prices, for use in preparing Bids.
- Measurement and payment criteria applicable to Work performed under a unit price payment method.
- C. Defect assessment and non-payment for rejected work.

#### 1.02 COSTS INCLUDED

A. Unit Prices included on the Bid Form shall include full compensation for all required labor, products, tools, equipment, plant, transportation, services and incidentals; erection, application or installation of an item of the Work; overhead and profit.

#### 1.03 UNIT QUANTITIES SPECIFIED

A. Quantities indicated in the Bid Form are for bidding and contract purposes only. Quantities and measurements of actual Work will determine the payment amount.

#### 1.04 MEASUREMENT OF QUANTITIES

- A. Measurement methods delineated in the individual specification sections complement the criteria of this section. In the event of conflict, the requirements of the individual specification section govern.
- B. Testing agency will take all measurements and compute quantities accordingly.
- C. Assist by providing necessary equipment, workers, and survey personnel as required.
- D. Measurement Devices:
  - 1. Weigh Scales: Inspected, tested and certified by the applicable state Weights and Measures department within the past year.
  - 2. Platform Scales: Of sufficient size and capacity to accommodate the conveying vehicle.
  - 3. Metering Devices: Inspected, tested and certified by the applicable state department within the past year.
- E. Measurement by Weight: Concrete reinforcing steel, rolled or formed steel or other metal shapes will be measured by handbook weights. Welded assemblies will be measured by handbook or scale weight.
- F. Measurement by Volume: Measured by cubic dimension using mean length, width and height or thickness.
- G. Measurement by Area: Measured by square dimension using mean length and width or radius.
- H. Linear Measurement: Measured by linear dimension, at the item centerline or mean chord.
- I. Stipulated Price Measurement: Items measured by weight, volume, area, or linear means or combination, as appropriate, as a completed item or unit of the Work.
- J. Perform surveys required to determine quantities, including control surveys to establish measurement reference lines. Notify Architect prior to starting work.

#### 1.05 PAYMENT

- A. Payment for Work governed by unit prices will be made on the basis of the actual measurements and quantities of Work that is incorporated in or made necessary by the Work and accepted by the Architect, multiplied by the unit price.
- B. Payment will not be made for any of the following:
  - 1. Products wasted or disposed of in a manner that is not acceptable.
  - 2. Products determined as unacceptable before or after placement.
  - 3. Products not completely unloaded from the transporting vehicle.
  - 4. Products placed beyond the lines and levels of the required Work.
  - 5. Products remaining on hand after completion of the Work.
  - 6. Loading, hauling, and disposing of rejected Products.

#### 1.06 DEFECT ASSESSMENT

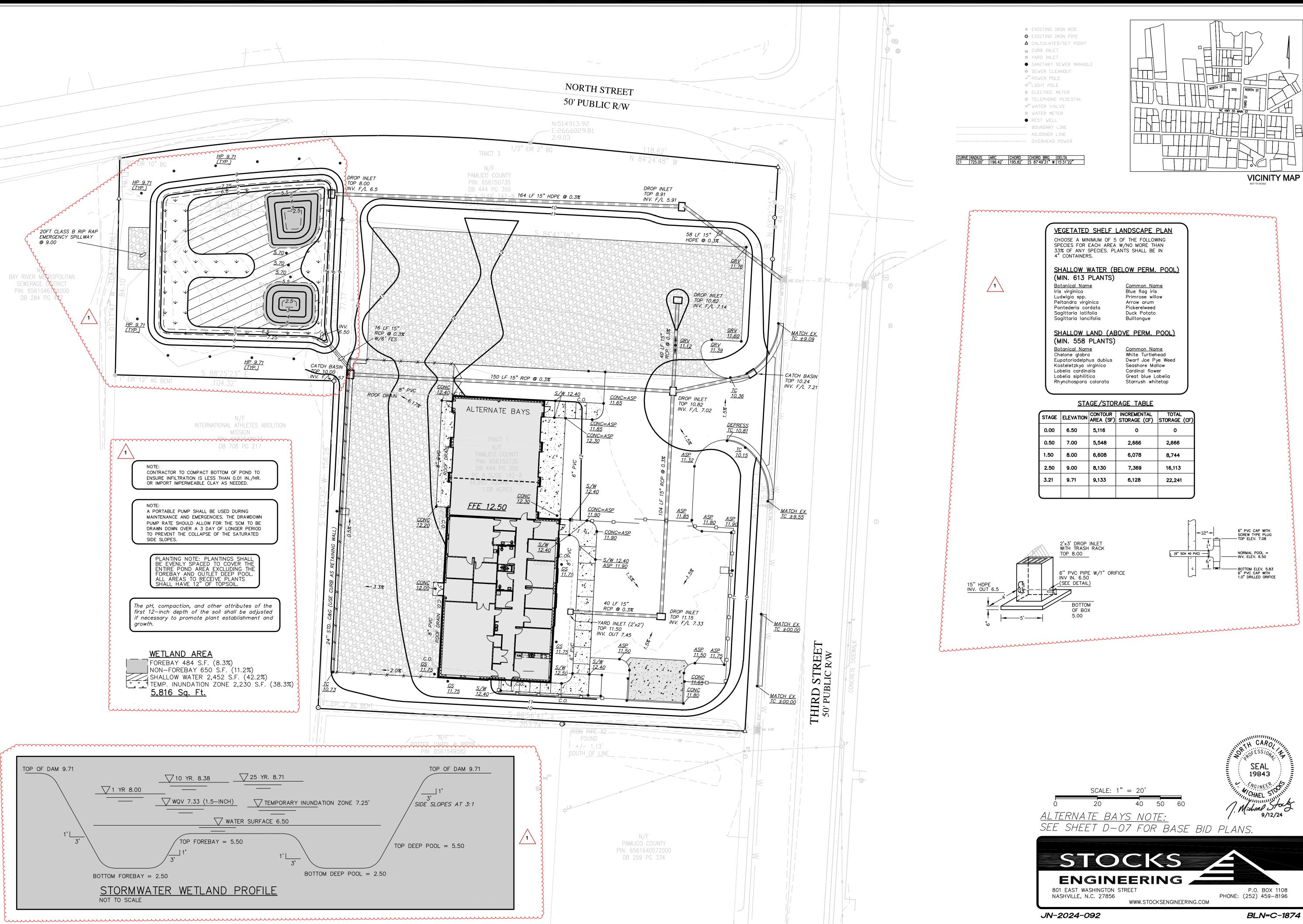
- A. Replace Work, or portions of the Work, not complying with specified requirements.
- B. If, in the opinion of the Architect, it is not practical to remove and replace the Work, Architect will direct one of the following remedies:
  - The defective Work may remain, but the unit price will be adjusted to a new unit price at the discretion of Architect, or:
  - 2. The defective Work will be partially repaired to the instructions of the Architect, and the unit price will be adjusted to a new unit price at the discretion of Architect.
- C. The authority of the Architect to assess the defect and identify payment adjustment is final.

#### 1.07 SCHEDULE OF UNIT PRICES

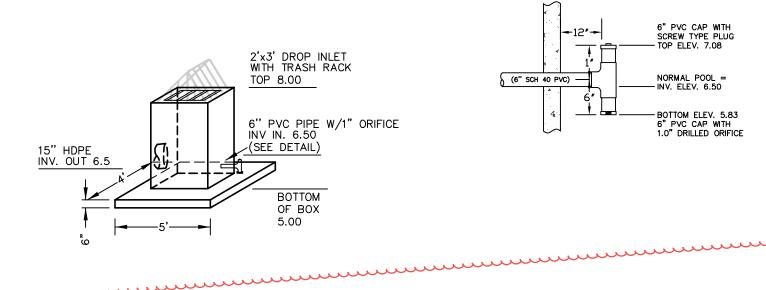
- A. Unit Price No. 1 Data Outlet and Conduit
  - Description: Furnish and install data oulet and conduit to above ceiling in same configuration as delineated in the plans
  - 2. Unit of Measurement: Per single outlet.
  - 3. Amount to be included in Base Bid: 5 Occurances
- B. Unit Price No. 2 Duplex Receptacle and Conduit
  - Description: Furnish and install duplex receptacle and circuit to panel in same configuration as delineated in the plans
  - 2. Unit of Measurement: Per single outlet.
  - 3. Amount to be included in Base Bid: 5 Occurances
- C. Unit Price No. 3 Undercut / Fill in Trench Excavations
  - 1. Description: Removal of unsuitable soils encoutered at subgrade elevations and replacement with suitable off site washed stone material in trench excavations (including footings) as authorized by the Architect, including disposal of excavated unsuitable materials off site, if required, and as futher required in Division 31 Earthwork.
  - 2. Unit of Measurement: Cubic Yards Excavated
  - 3. Amount to be included in Base Bid: 100 cubic yards
- D. Unit Price No. 4 Undercut / Fill in Open Excavations
  - 1. Description: Removal of unsuitable soils encountered in open excavations and replacement with suitable off site fill material as authorized by the Architect, including disposal of excavated unsuitable materials off site, if required, and as further defined in Division 31 Earthwork.
  - 2. Unit of Measurement: Cubic Yards Excavated
  - 3. Amount to be included in Base Bid: 250 cubic yards
- E. Unit Price No. 5 Conduit for Site Lighting
  - Description: Furnish and install 2" Schedule 40, grey electrical PVC conduit with pull wire for Site Lighting under paved or gravel areas in configuration as determined by Duke Energy, and as authorized by architect.
  - 2. Unit of Measurement: Linear Foot.
  - 3. Amount to be included in Base Bid: 80 linear feet
- F. Unit Price No. 6 Conduit for Building Power
  - 1. Description: Furnish and install (1) 3" Schedule 40, grey electrical PVC conduit with pull wire for underground service conductors in configuration as determined by Duke Energy, and as authorized by architect.
  - 2. Unit of Measurement: Linear Foot.
  - 3. Amount to be included in Base Bid: 280 linear feet

PART 2 PRODUCTS - NOT USED PART 3 EXECUTION - NOT USED

**END OF SECTION** 



**VICINITY MAP** 



19843



JN-2024-092

BLN=C-1874

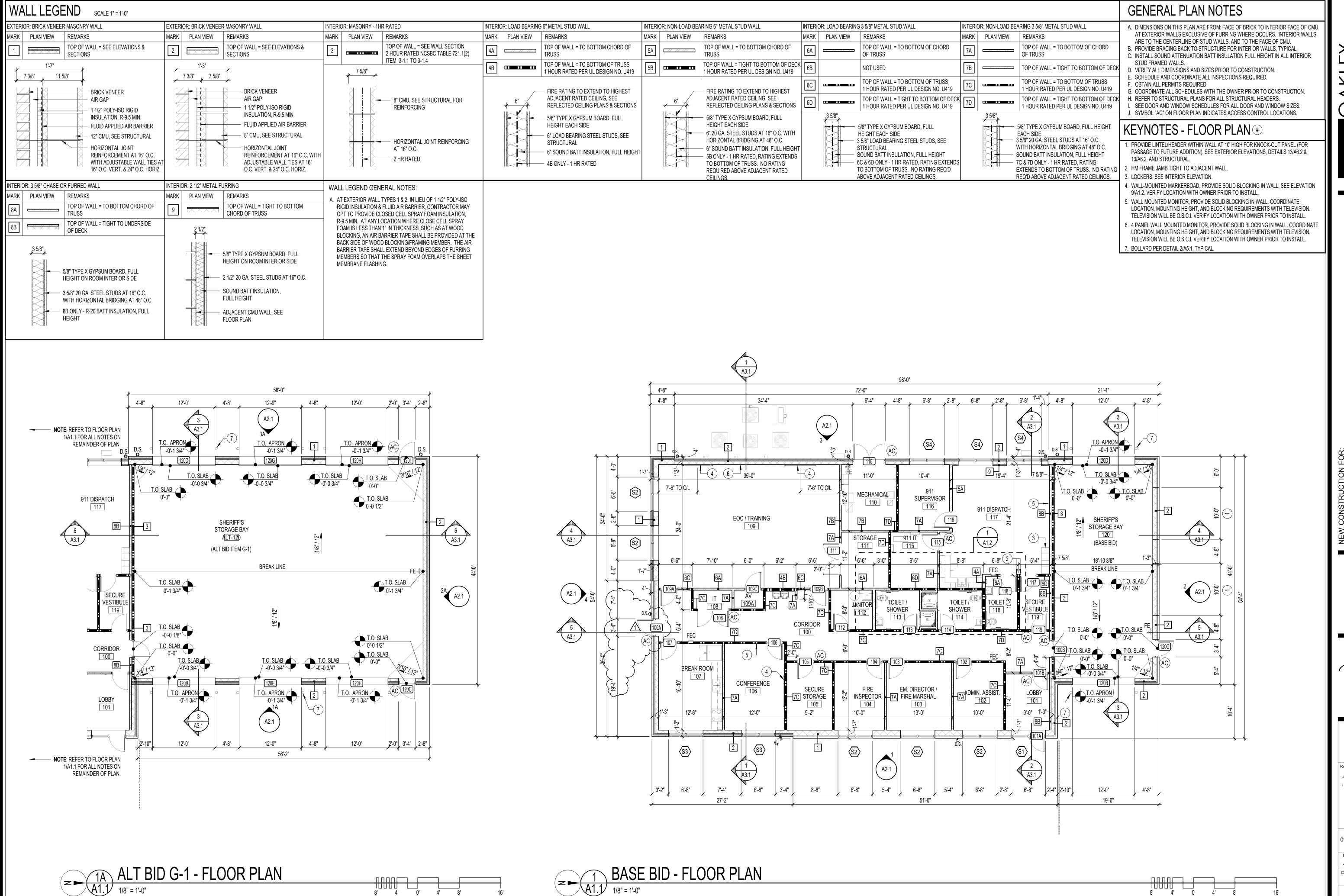
24017 09.12.24 CE0.3 Checker GRADING

and DRAINAGE

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

# Description Date

1 ADDENDUM 1 10.09.24



COLLIER ARCHITECT

/ 911 DISPATCH

BID SET

500 ARCHITTER TO THE CAROLINIA 10,09,24

BID SET

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

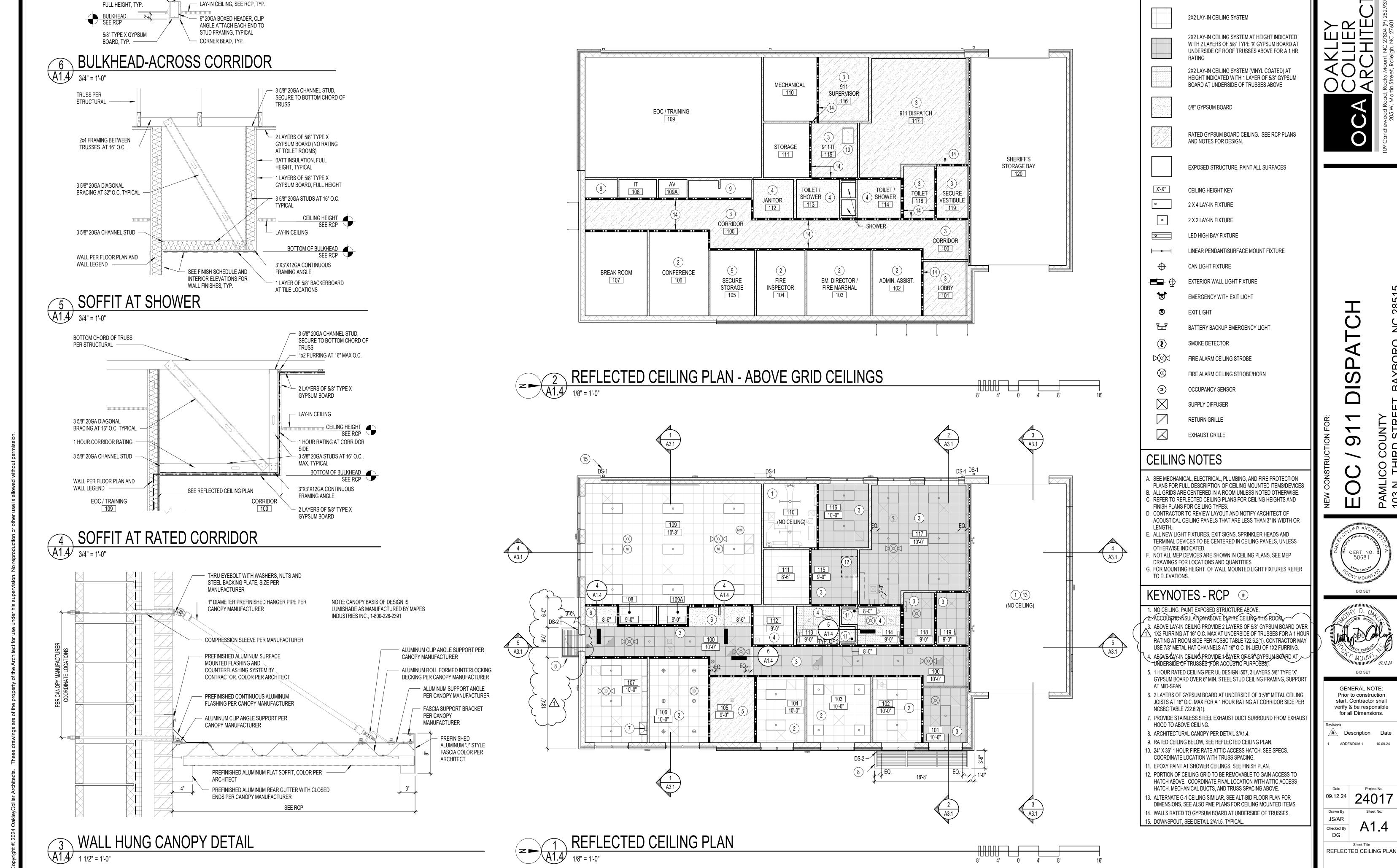
Description Date

ADDENDUM 1 10.09.24

9.12.24 **24017**Drawn By Sheet No.

JS/AR
Checked By
DG

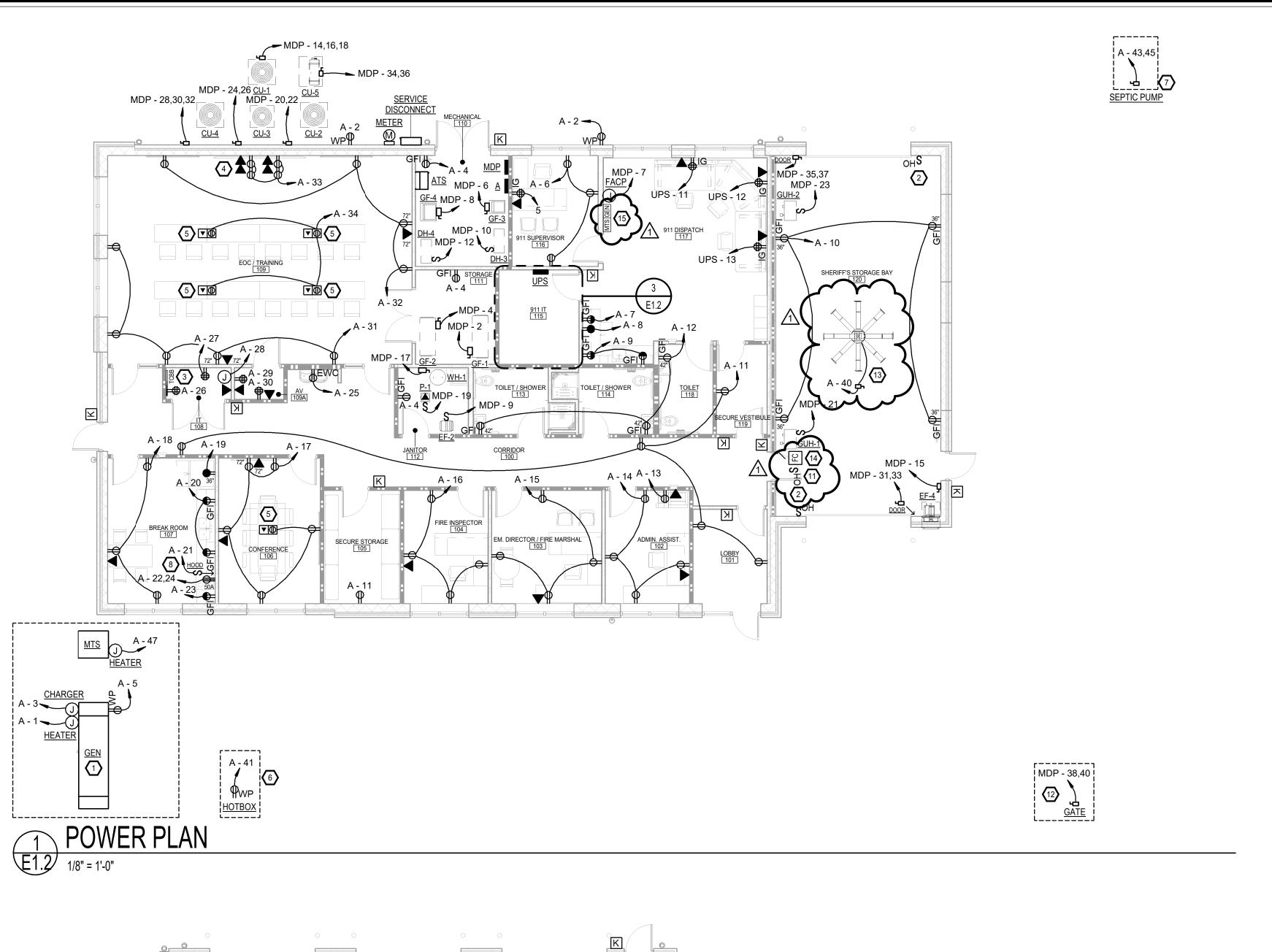
Sheet Title
FIRST FLOOR PLAN

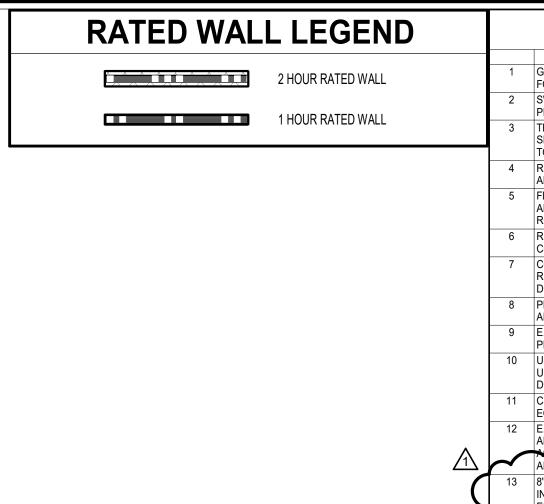


3 5/8" 20GA TRACK CONTINUOUS

EXTEND GYPSUM BOARD —

RCP LEGEND





KEY NOTES E1.2

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.

SWITCH CONTROL FOR OVERHEAD DOOR. FIELD COORDINATE INSTALLATION WITH ARCHITECT AND EQUIPMENT SUPPLIE PROVIDE CONTROL WIRE AS REQUIRED BY MANUFACTURER INSTRUCTION.

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 WIT 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.

RECEPTACLE FOR HOTBOX. SEE CIVIL SITE PLAN FOR EXACT LOCATION. FIELD COORDINATE INSTALLATION WITH SITE CONTRACTOR PRIOR TO ROUGH-IN.

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.

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.
 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

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.

EC. TO PROVIDE POWER TO SITE GATE AS REQUIRED. SEE CIVIL SITE PLAN FOR EXACT LOCATION WITH ARCHITECT AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE CONDUIT TO INDIVIDUAL DOOR CONTROLS AS REQUIRED.

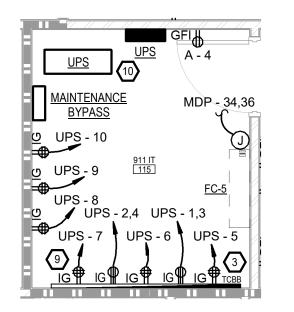
E.C. TO PROVIDE POWER TO SITE GATE AS REQUIRED. SEE CIVIL SITE PLAN FOR EXACT LOCATION. PROVIDE WITH ADDITIONAL 1" CONDUIT WITH PULLWIRE FROM ACCESSIBLE CEILING SPACE TO 36" WEATHERPROOF PEDESTAL FOR GATE

ARYHITECT AND AROUNDENT SOPPLIER.

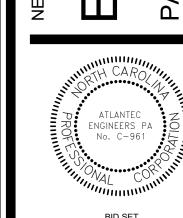
8' HVLS FAN PROVIDED AND INSTALLED BY E.C. PROVIDE WITH FAN SPEED CONTROLLER. FIELD COORDINATE INSTALLATION WITH ARCHITECT PRIOR TO ROUGH-IN. INSTALL BOTTOM OF FAN AS HIGH AS POSSIBLE. BIG ASS FANS: ESSENCE OR EQUAL.

FAN SPEED CONTROLLER FOR HVLS FAN CONTROL(S). CONTROLLER TO CONTROL ALL FANS. FIELD COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN. PROVIDED AND INSTALLED BY E.C. AT 42" A.F.F.

GENERATOR AND MTS ANNUNCIATORS. FIELD COORDINATE EXACT LOCATIONS WITH OWNER AND ARCHITECT PRIOR TO



3 ENLARGED POWER PLAN - 911 IT 115 E1.2 1/4" = 1'-0"



0

3221 BLUE RIDGE ROAD, SUITE 113

RALEIGH, NC 27612 (919) 571-1111

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



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

evisions

# Description Date

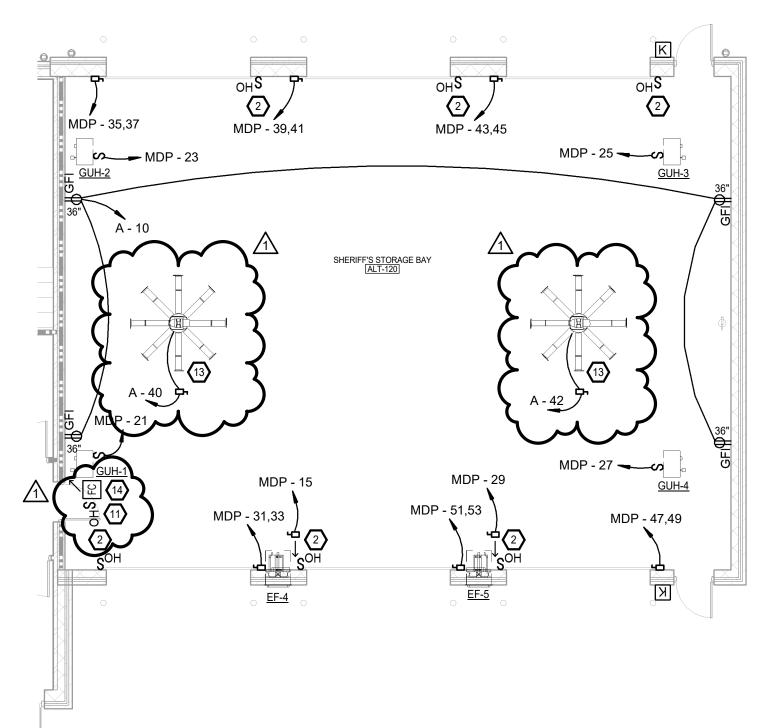
Date Project No. 9.12.24 **24017** 

Drawn By
MCB
Checked By
MCB

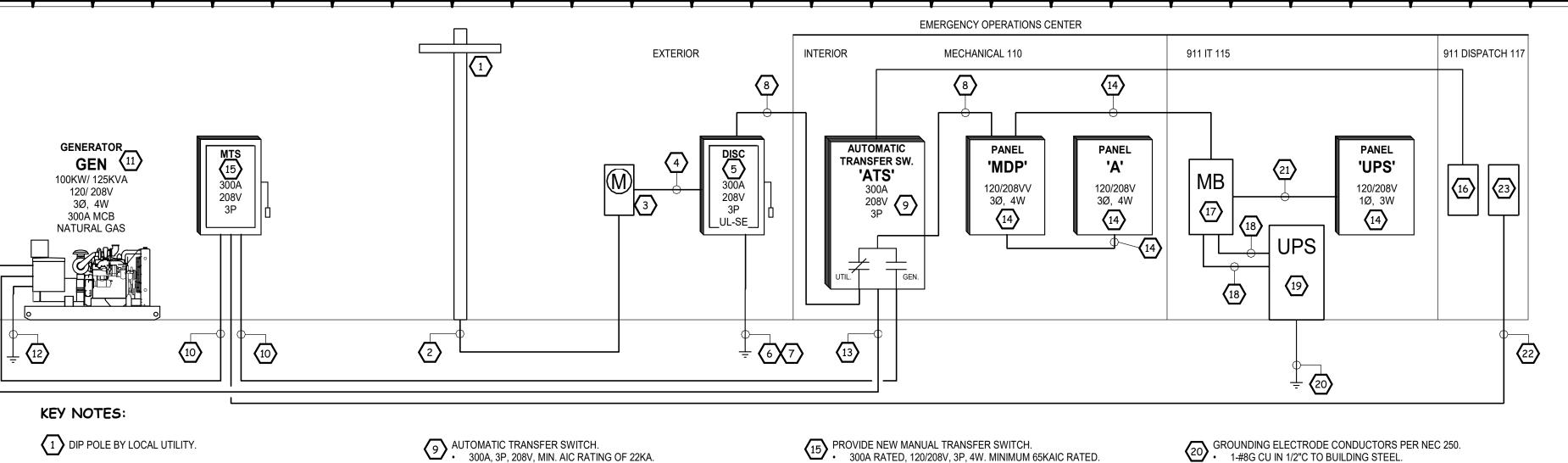
Sheet No.

E1.2

Sheet Title
POWER PLAN



2 ALTERNATE POWER PLAN E1.2 1/8" = 1'-0"



- UNDERGROUND SERVICE CONDUCTORS PROVIDED BY LOCAL UTILITY. E.C. TO PROVIDE 1-3" EMPTY CONDUIT WITH PULLWIRE FROM METER LOCATION TO DIP POLE PER UTILITY INSTRUCTION.
- (3) METER BASE BY E.C. IN ACCORDANCE WITH LOCAL UTILITY.
- SERVICE ENTRANCE CONDUCTORS 4-#350KCMIL IN 3"C
- 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).
- 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.
- BOND PER NEC 250.

  1-#2G CU IN 1/2"C TO GAS PIPE **(8)** 4-#350 KCMIL, 1-#4G IN 3"C

**Branch Panel: MDP** 

Supply From:

**Circuit Description** 

**Enclosure:** 

Mounting: Surface

- WALL MOUNTED NEMA 1 ENCLOSURE. FRONT ACCESS ONLY.
- GENERATOR FEEDER. 4-#350 KCMIL, 1-#4G IN 3"C
- 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 ANNUNICATOR LOCATED INSIDE BUILDING.
- SEE PLAN FOR REMOTE ANNUNCIATOR LOCATION. DO NOT BOND NEUTRAL TO GROUND BAR.

C Poles Trip

Volts: 120/208 3P 4W

 Trip
 Poles
 A
 B
 C
 Poles
 Trip
 Circ

 125
 3
 10.0
 1.7
 14.1
 1.7
 1
 20
 GF-2

 20
 1
 0.5
 1.9
 11.4
 1.7
 1
 20
 GF-3

 15
 1
 0.5
 0.7
 1
 15
 DH-3

 60
 2
 3.4
 1.5
 3.8
 0.7
 1
 15
 DH-4

 15
 1
 0.5
 1.5
 3
 25
 CU-1

 20
 1
 0.5
 1.4
 2
 25
 CU-2

 15
 1
 0.5
 1.4
 2
 25
 CU-2

 15
 1
 0.5
 1.4
 2
 20
 CU-3

 20
 1
 0.5
 1.4
 2
 20
 CU-3

 20
 1
 0.6
 2.0
 2
 25
 CU-4

 20
 2
 0.6
 1.2
 2

Demand Factor Estimated Demand

4833 VA

14510 VA

36446 VA

3000 VA

960 VA

24650 VA

0 VA

**Total Amps**: 235 A 244 A 240 A

125.00%

76.29%

104.38%

100.00%

100.00%

100.00%

0.00%

Connected Load

3867 VA

19020 VA

34916 VA

3000 VA

960 VA

24650 VA

0 VA

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.

Phases: 3

Listing:

Wires: 4

- 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.
- GENERATOR CONTROL AND ANNUNCIATOR WIRING IN CONDUIT BETWEEN GENERATOR AND ATS.

A.I.C. Rating: 22kA

Mains Rating: 400 A

Mains Type: Main Lug Only

Circuit Description

Panel Totals

Total Connected Load: 86 kVA

Total Est. Demand: 84 kVA

Total Est. Demand: 233 A

Total Conn.: 239 A

(14) SEE PANEL SCHEDULE FOR DETAILS.

300A RATED, 120/208V, 3P, 4W. MINIMUM 65KAIC RATED. • UL1008 LISTED. NEMA 3R, LOCKABLE ENCLOSURE.

PROVIDE UNISTRUT STRUCTURE FOR INSTALLATION AS REQUIRED.

GENERATOR ANNUNCIATOR. PROVIDE ANNUNCIATOR WIRING AS REQUIRED FROM ATS.

PROVIDE NEW, WALL MOUNT MAINTENANCE BY-PASS FOR UPS.

PROVIDE WITH CAM LOCK CONNECTORS.

HARDWIRED INPUT/OUTPUT CONNECTIONS

HARDWIRED INPUT/OUTPUT CONNECTIONS

. HIGH AND LOW BATTERY VOLTAGE

PROVIDE WITH INTERFACE TO ANNUNCIATE THE FOLLOWING:

1. SOURCE POWER FAILURE, OVERVOLTAGE, AND UNDERVOLTAGE

PROVIDE WITH 60A OUTPUT BREAKER.

EATON: BPM125HW OR EQUAL

PROVIDE NEW, FLOOR MOUNT UPS.

EATON: 9155 OR EQUAL

3. UPS IN BYPASS MODE

**(**18**)** 3-#6, 1-#8G IN 1"C.

15KVA RATED

SINGLE CABINET

- PROVIDE WITH 120V HEATER/THERMOSTAT/DE-HUMIDISTAT PROVIDE WITH AUXILIARY CONTACTS, CONTROL WIRE AND CONDUIT,
- AND ANNUNCIATOR AS REQUIRED TO ANNUNCIATE WHEN PERMANENT, LEGALLY-REQUIRED, STANDBY SOURCE IS DISCONNECTED.

  E.C. TO PROVIDE CONTROL WIRE AND CONDUIT AS REQUIRED FROM MTS TO ANNUNCIATOR.
  - E.C. TO PROVIDE A SEPARATE ANNUNCIATOR FOR THE MTS TO NOTIFY WHEN PERMANENT, LEGALLY-REQUIRED, STANDBY SOURCE IS

## **(21)** 3-#6, 1-#8G, 1-#8IG IN 1 1/4"C.

# DISCONNECTED.

## POWER RISER DIAGRAM

Location: MECHANICAL 110

3 PANEL A

9 EF-2 11 13 UPS 15 EF-4 17 WH-1

21 GUH-1 23 GUH-2

Legend:

LIGHTS

**Load Classification** 

MOTOR/COOLING

WATER HEATER

KITCHEN EQUIP.

RECEPTACLE

HEATING

EQUIPMENT

7 FACP - NOTE 1

19 RECIRC PUMP P-1

25 GUH-3 - NOTE 2

27 GUH-4 - NOTE 2 29 EF-5 - NOTE 2

OVERHEAD DOOR - NOTE 2

1. E.C. TO PROVIDE LOCK-ON PROVISION.

### **Branch Panel: A**

Location: MECHANICAL 110 Supply From: MDP Mounting: Surface Enclosure:

Volts: 120/208 3P 4W Phases: 3 Wires: 4

Listing:

A.I.C. Rating: 22kA Mains Type: Main Lug Only Mains Rating: 225 A

CKT	Circuit Description	Trip	Poles	-	4	E	3	(	2	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		30		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	TS 108 119	36
37	LTS 100,101	20	1	0.2	0.5					1	20	LTV 102-107	38
39	LTS 120	20	1			1.8	1.0			1	20	HVLS FAN	40
41	HOT BOX REC	20	1					0.2	1.0	1 2	20	HVLS FAN	42
43	SEPTIC PUMP	30	2	1.0						1		SPACE AND AND	44
45	SEF NO FOME					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	14.1	kVA	11.4	kVA				
		Total	Amps:	83	А	119	9 A	97	' A	_			

3867 VA 15780 VA 2667 VA	125.00% 81.69% 109.37%	4833 VA 12890 VA 2917 VA	Total Connected Load: 3	
2667 VA				
	109.37%	2917 VA	Total Est. Demand:	34 kVA
00001/4				
3000 VA	100.00%	3000 VA	Total Conn.: 9	99 A
0 VA	0.00%	0 VA	Total Est. Demand:	94 A
10550 VA	100.00%	10550 VA		
0 VA	0.00%	0 VA		
	10550 VA	10550 VA 100.00%	10550 VA 100.00% 10550 VA	10550 VA 100.00% 10550 VA

1. E.C. TO PROVIDE GFCI BREAKER.

Legend:

**Branch Panel: UPS** 

**Location:** 911 IT 115 Supply From: MDP Mounting: Surface Enclosure:

Volts: 120/208 1P 3W Phases: 1 Wires: 3 Listing:

EQUIPMENT AND SUB-PANEL FEEDER WIRE, CONDUIT AND STANDARD INVERSE TIME CIRCUIT BREAKER SIZES (BASED ON NEC TABLE 310-16 @75° C)

GROUND

#12

#12

#10

#10

#10

#10

#10

#10

#10

#8

#8

#8

#6

#6

#6

#6

#4

#4

#4

#3

(2) #3

(2) #2

(2) #2

(2) #1

(2) #1/0

(2) #1/0

(3) #2/0

(3) #2/0

(4) #3/0

(5) #4/0

3W & *G* 

1/2"

1/2"

1/2"

1/2" 3/4"

3/4"

3/4"

3/4"

3/4"

1-1/4"

1-1/4"

1-1/4"

1-1/4"

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3"

3"

(2) 2"

(2) 2"

(2) 2-1/2"

(2) 3"

(2) 3"

(2) 3-1/2"

(3) 2-1/2"

(3) 3"

(4) 3"

(5) 3"

4W & *G* 

1/2"

1/2"

1/2" 1/2"

3/4"

3/4" 3/4"

3/4"

1"

1-1/4"

1-1/4"

1-1/4"

1-1/4"

1-1/4"

1-1/2"

2"

2"

2-1/2"

2-1/2"

3"

3-1/2"

(2) 2"

(2) 2-1/2"

(2) 2-1/2"

(2) 3"

(2) 3-1/2"

(2) 4"

(3) 3"

(3) 3"

(4) 3"

(5) 3"

WIRE SIZE (BASED

UPON 75° RATING)

#12

#12

#10

#10

#8

#8

#8

#8

#6

#4

#3

#3

#2

#1

#1/0

#2/0

#3/0

#4/0

#250

#350

#500

(2) #3/0

(2) #4/0

(2) #250

(2) #350

(2) #500

(2) #600

(3) #350

(3) #400

(4) #350

(5) #400

BREAKER

15

20

25

30

35

40

45

50

60

70

80

90

100

110

125

150

175

200

225

250

300

350

400

450

500

600

700

800

900

1000

1200

1600

A.I.C. Rating: 22kA Mains Type: MLO Mains Rating: 100 A

CKT	Circuit Description	Trip	Poles	ļ ,	A	(		Poles	Trip	Circuit Description	CKT
1	IG 208V REC	30	2	1.0	1.0			2	30	IG 208V REC	2
3	IG 200V INEC	30				1.0	1.0	-	30	IG 200V INEC	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				1		SPACE	30
Total Load:				3.8	kVA	3.4	kVA				
		36	A	33	ВА	_					

_	Legena.	

Type:

Load Classification	Connected Load	Demand Factor	<b>Estimated Demand</b>	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		

1. PROVIDE WITH INTERNAL, 120KA-RATED, TYPE II SPD WITH DISCONNECT.

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

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

9

SEAL 048828

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

/#\ Description Date ADDENDUM 1 10-09-2024

Sheet No. MCB MCB

POWER RISER, PANEL SCHEDULES