

# PETTIGREW STATE PARK

## CAMPGROUND AND OFFICE IMPROVEMENTS

### CRESWELL, NORTH CAROLINA

SCO ID#: 20-22411-02A

DEPARTMENT OF NATURAL AND CULTURAL RESOURCES  
DIVISION OF PARKS & RECREATION

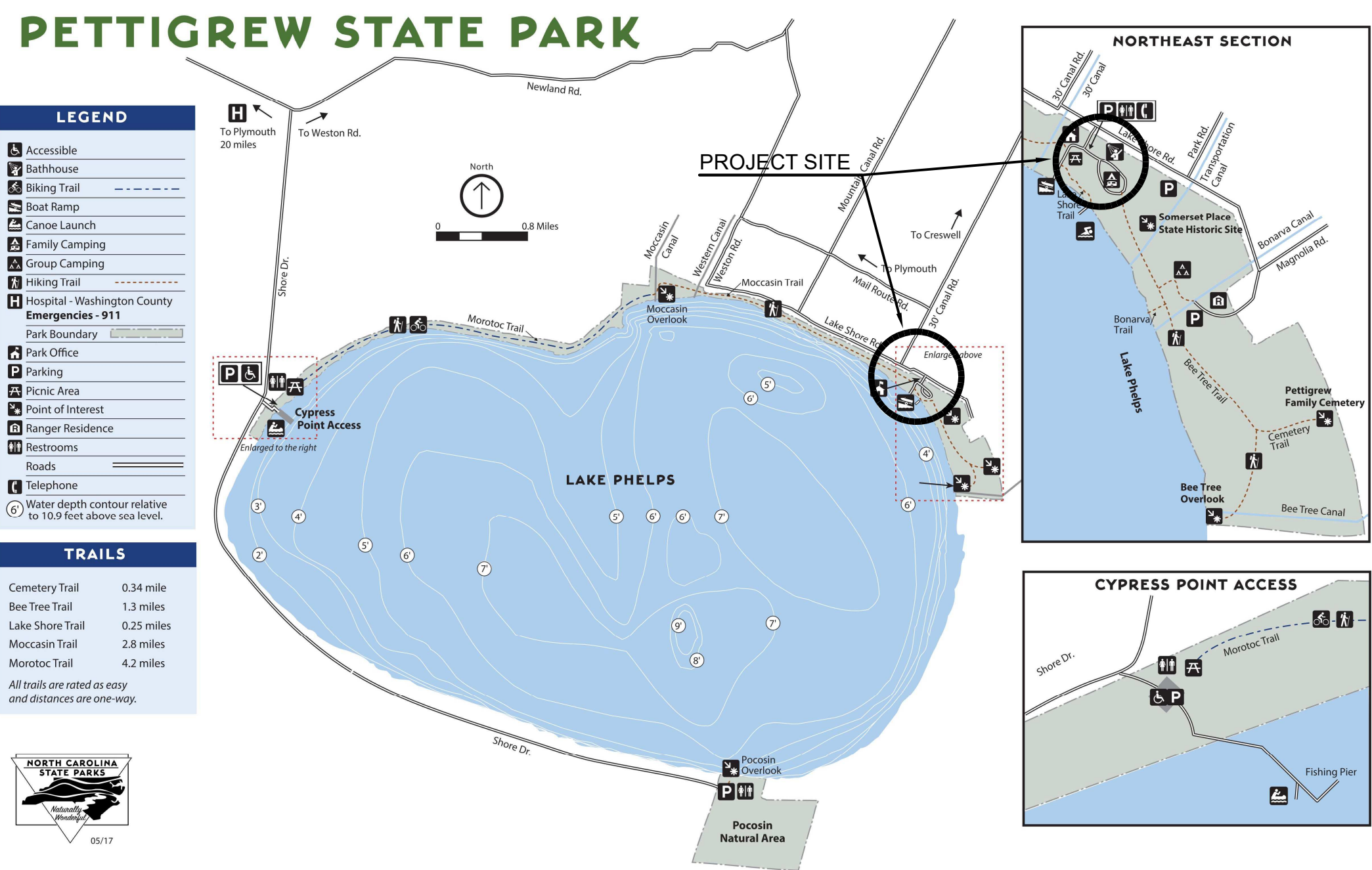
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VICINITY MAP  
NOT TO SCALE

#### SCHEDULE OF DRAWINGS

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7/27/2025  
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SCO ID#: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN BY: MVB  
CHECKED BY: GMF  
PROJ. NO. 20061  
DATE 7/27/2025  
SHEET 00 OF 00



SPLIT SYSTEM HEAT PUMP SCHEDULE																									
INDOOR UNIT													OUTDOOR UNIT (95 °F ENT AMBIENT)												
MARK	NOMINAL TONS	BASIS OF DESIGN MANUFACTURER	MODEL	CFM	MINIMUM OUTSIDE AIR	SUPPLY FAN		HEATING		COOLING CAP. (MBH)						ELECTRICAL			MARK	MODEL	EER/SEER	ELECTRICAL			REMARKS
							FAN HP	AUX. KW/ STAGES	TOTAL	SENSIBLE	ENT AIR DB °F	ENT AIR WB °F	LVG AIR DB °F	LVG AIR WB °F	VOLTAGE/ PHASE	MCA	MOCP	VOLTS/PH				MCA	MOCP		
AHU-1	2	TRANE	TEM6A0N24H21	715	47		1/3	3.84/1	23.10	18.3	77.5	63.7	53.5	52.2	230/1	24	25	HP-1	4TWR7024A1	12.5/17	230/1	15	25	1,2,3,4,5	
AHU-2	3.5	TRANE	TEM6A0C42H41	1,245	206		1/2	7.68/1	40.20	30.7	79.4	66.0	56.2	55.1	230/1	45.0	45	HP-2	4TWR4042G1	12/14.5	230/1	25	40	1,2,3,4,5	

#### REMARKS

- R-454B REFRIGERANT.
- VARIABLE SPEED ECM MOTOR.
- NEC RATED DISCONNECTS.
- TWO STAGE COMPRESSOR.
- PROGRAMMABLE THERMOSTAT.

GAS-FIRED UNIT HEATER SCHEDULE																		
MARK	LOCATION / SERVES	MANUFACTURER	MODEL	FAN DATA		ELECTRICAL		GAS HEATING										
				CFM	HP	VOLTAGE	PHASE	MCA	MOCP	INTAKE VENT DIA	EXH VENT DIA	INPUT MBH	OUTPUT MBH	MOUNTING HEIGHT BOTTOM	GAS TYPE	AFUE	WEIGHT LBS	REMARKS
GUH-1	SHOWER BLDG	STERLING	GG-030-A1P	370	1/20	120	1	3.7	15	4	4	30.0	24.9	10'-0"	PROPANE	83	60	1,2,3,4,5
GUH-2	SHOWER BLDG	STERLING	GG-030-A1P	370	1/20	120	1	3.7	15	4	4	30.0	24.9	10'-0"	PROPANE	83	60	1,2,3,4,5
GUH-3	SHOWER BLDG	STERLING	GG-030-A1P	370	1/20	120	1	3.7	15	4	4	30.0	24.9	10'-0"	PROPANE	83	60	1,2,3,4,5
GUH-4	SHOWER BLDG	STERLING	GG-030-A1P	370	1/20	120	1	3.7	15	4	4	30.0	24.9	10'-0"	PROPANE	83	60	1,2,3,4,5

#### REMARKS

- PROVIDE WITH INTEGRAL CIRCUIT BREAKER AND THERMOSTAT.
- PROVIDE LOCKING THERMOSTAT COVER.
- POWER VENTED.
- PROVIDE 4" COMBUSTION AIR INLET KIT.
- MIN. CLEARANCE TO COMBUSTIBLES: 1" TOP, BACK AND SIDES.

FAN SCHEDULE															
MARK	BASIS OF DESIGN MANUF	LOCATION	MODEL NO.	TYPE	DRIVE	SERVICE	CFM	S.P. ("W.C.)	SONES	RPM	BHP	MHP OR WATTS	VOLTAGE/ PHASE	CONTROL	REMARKS
F-1	GREENHECK	SHOWER BLDG	SE1-18-429-VG	PROP	DIRECT	EXHAUST	1,000	0.10	1.4	358	0.01	3/4	120/1	T'STAT	1 THROUGH 4,7
F-2	GREENHECK	SHOWER BLDG	SE1-18-429-VG	PROP	DIRECT	EXHAUST	1,000	0.10	1.4	358	0.01	3/4	120/1	T'STAT	1 THROUGH 4,7
F-1	GREENHECK	TOILET(OFFICE BLDG)	SP-AP0511W	CEIL	DIRECT	EXHAUST	110	0.26	0.8	861		11 WATTS	120/1	OCC SENSOR	1,2,3,5,6
F-2	GREENHECK	TOILET(OFFICE BLDG)	SP-AP0511W	CEIL	DIRECT	EXHAUST	110	0.26	0.8	861		11 WATTS	120/1	OCC SENSOR	1,2,3,5,6
F-3	GREENHECK	TOILET(OFFICE BLDG)	SP-AP0511W	CEIL	DIRECT	EXHAUST	110	0.26	0.8	861		11 WATTS	120/1	OCC SENSOR	1,2,3,5,6
F-4	BIG ASS FANS	CABINS	HAIKU L 44	CEIL	ECM	CIRCULATION	4,660	N/A	N/A	260		20.3 W	120/1	WALL CONTROL	9.10
F-5	BIG ASS FANS	FAMILY TOIL/SHOWER	HAIKU S2	CEIL	ECM	CIRCULATION	1425-6595	N/A	N/A	200		52 W	120/1	WALL CONTROL	8.10
F-3	GREENHECK	SHOWER BLDG	G-097-VG	ROOF	ECM	JAN EXHAUST	100	0.50	4.5	1120		0.25	120/1	ALWAYS ON	1,11

#### REMARKS

- N.E.C. RATED DISCONNECT SWITCH BY MC.
- SPEED CONTROLLER ON MOTOR.
- CUSTOMIZABLE HIGH SPEED (5-80-110 CFM).
- FAN TO BE CONTROLLED BY OUTSIDE AIR TEMPERATURE SENSOR. WHEN OUTSIDE AIR IS 75df OR ABOVE, FAN SHALL OPERATE. PROVIDE OA TEMP SENSOR.
- PROVIDE FAN WITH OCCUPANCY SENSOR, ADJUSTABLE TIME.
- INTEGRAL BACKDRAFT DAMPER.
- ALUMINUM BLADE PROPELLER, CORROSION RESISTANT FASTENERS, EC MOTOR, WEATHERHOOD WITH BIRD SCREEN.
- AIRFOIL FINISH. CARAMEL BAMBOO, HARDWARE FINISH. OIL RUBBED BRONZE. DOWNROD EXTENSION. MOUNT 8'-0" AFF TO BOT OF FAN.
- BLACK FINISH, DOWNROD EXTENSION. MOUNT 8'-0" AFF TO BOT OF FAN.
- PROVIDE HARD-WIRED WALL CONTROL.
- BACKDRAFT DAMPER, BIRD SCREE, SLOPED ROOF CURB.

PACKAGED TERMINAL HEAT PUMP SCHEDULE (PTAC)															
MARK	TYPE	BASIS OF DESIGN MANUFACTURER	CFM	REFRIG	MINIMUM OUTSIDE AIR	HEATING		POWER CORD	COOLING CAP. (BTUH)	ELECTRICAL			EER	REMARKS	
						MBH	KW			TOTAL	VOLTAGE/ PHASE	MCA			MOCP
PTAC-1	HEAT PUMP	AMANA PTH	310	R32	40	8.5	2.5	YES	9,000	208/1	4.2	15	12.0	1,2,3,4,5	

#### REMARKS

- WASHABLE FILTERS.
- WALL SLEEVE.
- ANTI-SHORT CYCLE TIMER.
- ALUMINUM OUTDOOR GRILLE.
- EXTERNAL DISCONNECT.

AIR DISTRIBUTION SCHEDULE									
MARK	BASIS OF DESIGN MANUFACTURER	MODEL	TYPE	PANEL SIZE IN X IN	NECK SIZE IN X IN	CFM RANGE	MAX. PD (IN. H <sub>2</sub> O)	MAX. NC	REMARKS
A	PRICE	ASCD A	CEILING SUPPLY	12X12	6	TO 95	0.05	<20	
B	PRICE	ASCD A	CEILING SUPPLY	12X12	8	100-175	0.05	<20	
C	PRICE	620D	SIDEWALL SUPPLY	16X10	14X8	300-345	0.05	<20	
D	PRICE	620D	SIDEWALL SUPPLY	12X8	10X6	155-170	0.05	<20	
E	PRICE	620D	SIDEWALL SUPPLY	10X8	8X6	130-145	0.05	<20	
F	PRICE	PDDR	CEILING RETURN	16X16	8X8	105-175	0.05	<20	
G	PRICE	630D	SIDEWALL RETURN	12X6	10X4	75-85	0.05	<20	

#### NOTES

- REFER TO ARCHITECTURAL PLANS FOR COORDINATION OF CEILING TYPES AND RATINGS.
- ALL SIDEWALL DIFFUSERS SHALL HAVE AN OPPOSED BLADE DAMPER FOR BALANCING.
- ALL WALL & CEILING DIFFUSERS AND GRILLES TO BE WHITE FINISH EXCEPT AS SPECIFICALLY NOTED OTHERWISE.

ELECTRIC HEATER SCHEDULE									
DESIGNATION	MANUFACTURER	MODEL NO.	CFM	HP	KW	VOLTAGE/ PHASE	MOUNTING HEIGHT	LOCATION	REMARKS
EH-1	MARKEL	E3055T2DWB	100	12.5	1.5	120/1	3' AFF TO TOP	FAM TOILET 102	1,2,3,4
EH-2	MARKEL	E3055T2DWB	100	12.5	1.5	120/1	3' AFF TO TOP	JAN 104	1,2,3

#### REMARKS

- PROVIDE WITH INTEGRAL CIRCUIT BREAKER AND THERMOSTAT.
- RECESSED MOUNTING.
- PROVIDE GFCI PROTECTION.
- RATED FOR DAMP LOCATION.

#### MECHANICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AHU-1	AIR HANDLING UNIT AND NUMBER
AI	ANALOG INPUT
AO	ANALOG OUTPUT
APPROX	APPROXIMATELY
ARCH	ARCHITECTURAL
BHP	BRAKE HORSEPOWER
BI	BINARY INPUT
BO	BINARY OUTPUT
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CFM	CUBIC FEET PER MINUTE
CONTR	CONTRACTOR
DB	DRY BULB
DN	DOWN
DWG	DRAWING
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EF-1	EXHAUST FAN AND NUMBER
EFF	EFFICIENCY
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
EXST	EXISTING
GC	GENERAL CONTRACTOR
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IN	INCH
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LBS	POUNDS
MAX	MAXIMUM
MBH	1,000 BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MFR	MANUFACTURER
MIN	MINIMUM
MTD	MOUNTED
N/A	NOT APPLICABLE
NO	NUMBER
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
RA	RETURN AIR
REQ'D	REQUIRED
REV	REVISION
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
T'STAT	THERMOSTAT
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VAV	VARIABLE AIR VOLUME
VEL	VELOCITY
VFD	VARIABLE SPEED DRIVE
WB	WET BULB
WG	WATER GUAGE

#### MECHANICAL LEGEND

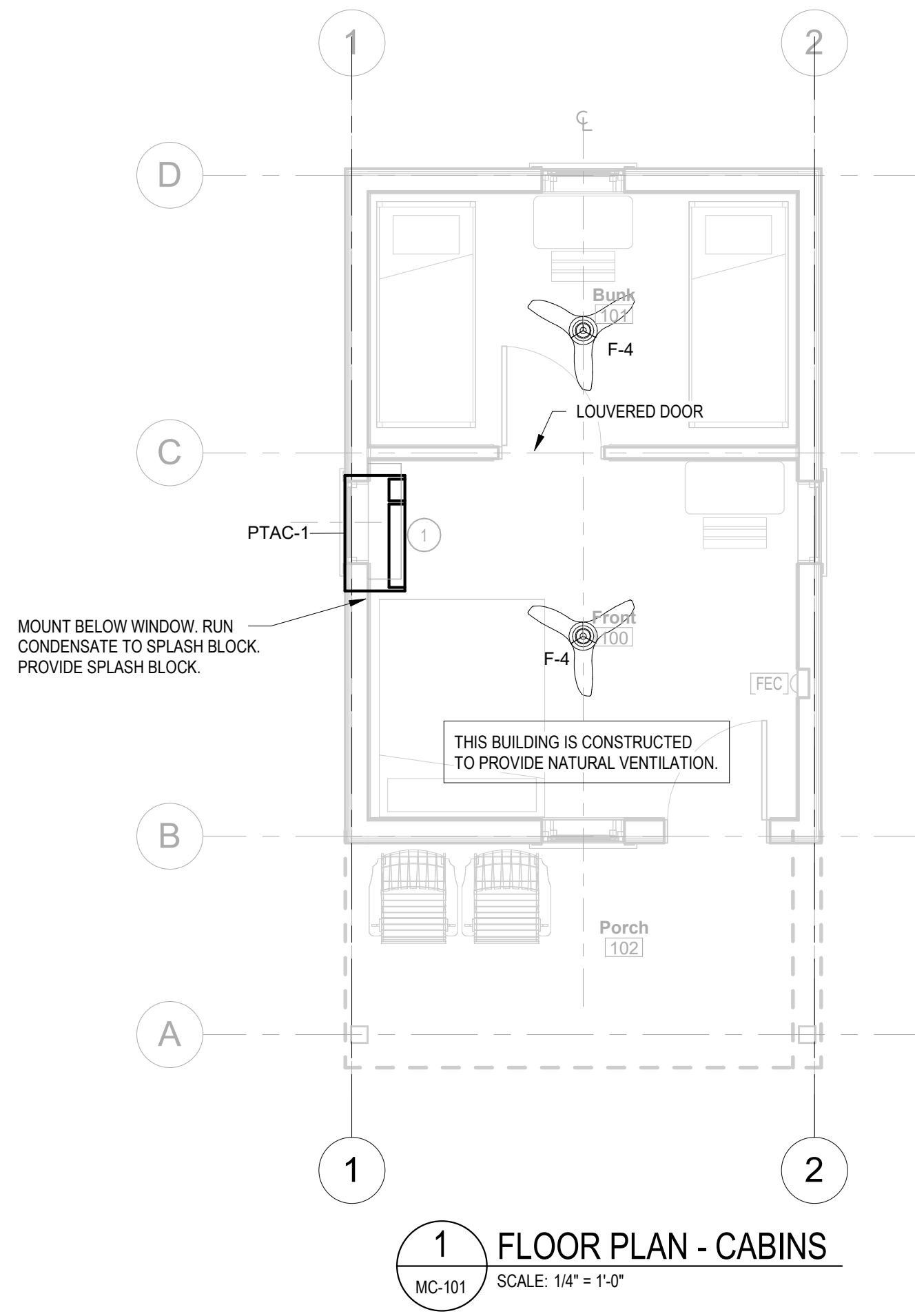
	SUPPLY AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST AIR DUCT SECTION
	SQUARE SHEETMETAL DUCTWORK (DIMENSIONS ARE IN INCHES)
	ROUND SHEETMETAL DUCTWORK (DIMENSIONS ARE IN INCHES)
	INTERNAL DUCT LINING
	TRANSITION
	SQUARE-TO-ROUND TRANSITION
	CHANGE IN ELEVATION OF DUCTWORK – D=DROP, R=RISE
	DUCT TURNING UP
	DUCT TURNING DOWN
	ELBOW WITH TURNING VANES (ALL ELBOWS SHALL HAVE TURNING VANES)
	ROUND ELBOW (R = 1.5'D)
	SPIN-IN FITTING WITH SCOOP
	EXTRACTOR AND BALANCING DAMPER WITH LOCKING QUADRANT
	FLEXIBLE DUCT
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE OR REGISTER
	EXHAUST AIR GRILLE OR REGISTER
	LINEAR SLOT DIFFUSER
	SUPPLY DIFFUSER (SIDEWALL OR DUCT MOUNTED)
	RETURN GRILLE OR REGISTER (SIDEWALL OR DUCT MOUNTED)
	DIFFUSER SYMBOL – LETTER=TYPE, NUMBER=CFM
	FIRE DAMPER
	MANUAL OPERATED DAMPER
	MOTOR OPERATED DAMPER
	DUCT MOUNTED SMOKE DETECTOR
	THERMOSTAT (INSTALL 48" AFF)
	HUMIDISTAT (INSTALL 48" AFF)
	KEYED NOTE NUMBER
	REFRIGERANT PIPING
	CONDENSATE DRAIN PIPING

MECHANICAL / ELECTRICAL EQUIPMENT COORDINATION SCHEDULE												
EQUIPMENT DESIGNATION	EQUIPMENT DESCRIPTION	EQUIPMENT FURN. BY	VOLTAGE/ PHASE	HEATER KW	WATTS/MHP	HP	MCA	MOCP	DISCONNECT FURN. BY	STARTER FURN. BY	CONTROLS	REMARKS
AHU-1	AIR HANDLING UNIT	MC	230/1	3.84		1/3	24	25	MC	N/A	T'STAT	
AHU-2	AIR HANDLING UNIT	MC	230/1	7.68		1/2	45	45	MC	N/A	T'STAT	
HP-1	HEAT PUMP	MC	230/1				15	25	MC	N/A	T'STAT	
HP-2	HEAT PUMP	MC	230/1				25	40	MC	N/A	T'STAT	
GUH-1	GAS-FIRED UNIT HEAT	MC	120/1			1/20	3.7	15	MC	N/A	T'STAT	
GUH-2	GAS-FIRED UNIT HEAT	MC	120/1			1/20	3.7	15	MC	N/A	T'STAT	
GUH-3	GAS-FIRED UNIT HEAT	MC	120/1			1/20	3.7	15	MC	N/A	T'STAT	
GUH-4	GAS-FIRED UNIT HEAT	MC	120/1			1/20	3.7	15	MC	N/A	T'STAT	
F-1	FAN SHOWER BLDG	MC	120/1		3/4	0.1			MC	N/A	T'STAT	
F-2	FAN SHOWER BLDG	MC	120/1		3/4	0.1			MC	N/A	T'STAT	
F-1	FAN OFFICE BLDG	MC	120/1		11 WATTS				MC	N/A	OCC SEN	
F-2	FAN OFFICE BLDG	MC	120/1		11 WATTS				MC	N/A	OCC SEN	
F-3	FAN OFFICE BLDG	MC	120/1		11 WATTS				MC	N/A	OCC SEN	
F-4	CEILING FAN	MC	120/1		20.3 WATTS				MC	N/A	WALL CONTROL	
F-5	CEILING FAN	MC	120/1		52 WATTS				MC	N/A	WALL CONTROL	
PTAC-1	PACKAGED TERMINAL A/C UNIT	MC	208/1	2.5			4.2	15	MC	N/A	T'STAT	
EH-1	ELECTRIC HEATER	MC	120/1	1.5						FWE	T'STAT	
EH-2	ELECTRIC HEATER	MC		1.5						FWE	T'STAT	

#### ABBREVIATIONS:

EC: ELECTRICAL CONTRACTOR  
FWE: FURNISHED WITH EQUI





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SCO ID#: 20-22411-02A CONSTRUCTION DOCUMENTS FOR BID

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN	DNF
CHECKED	JRQ
PROJECT NO.	1361-20
DATE	7/27/2025
SHEET NAME	FLOOR PLAN
SHEET NO.	MC-101

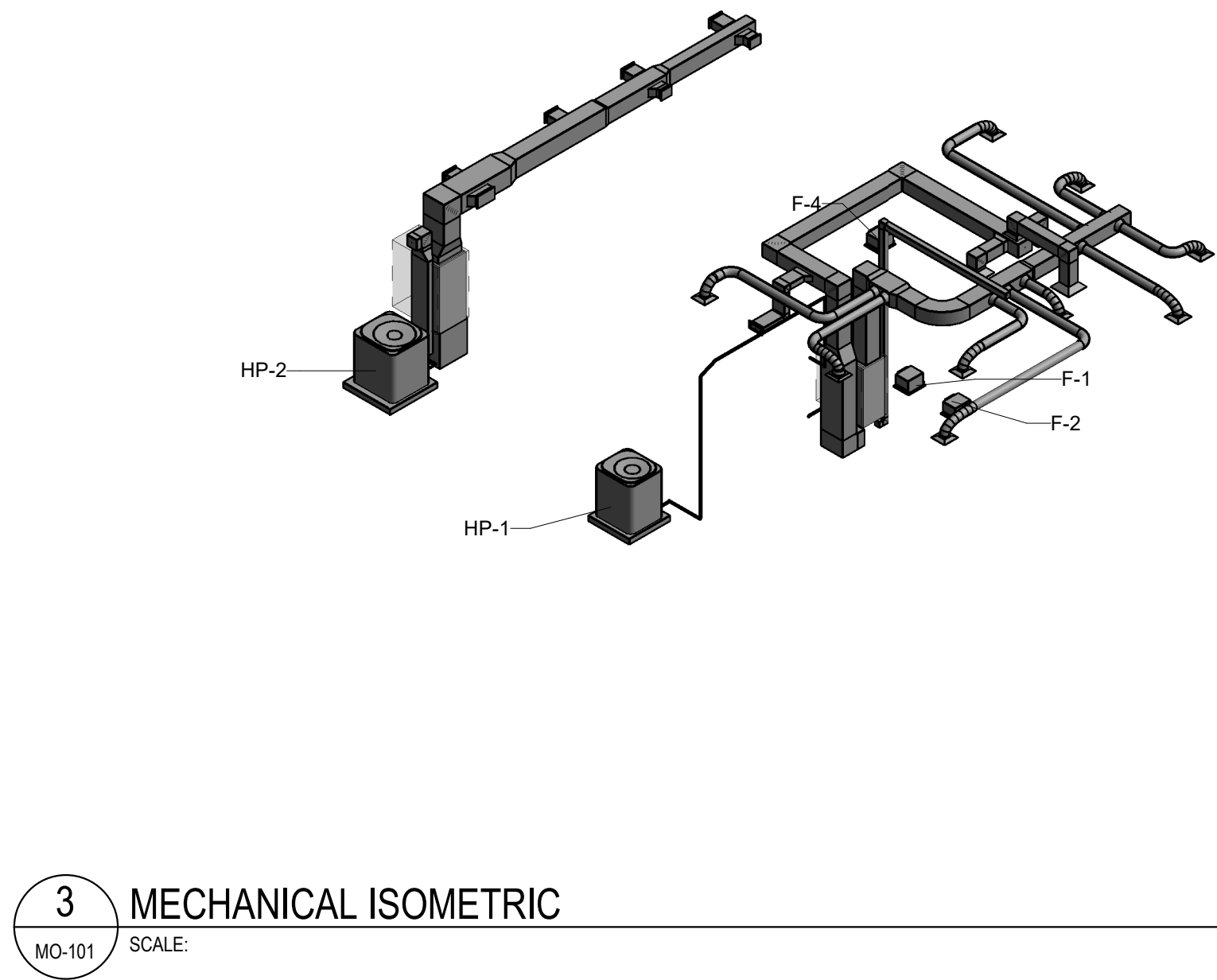
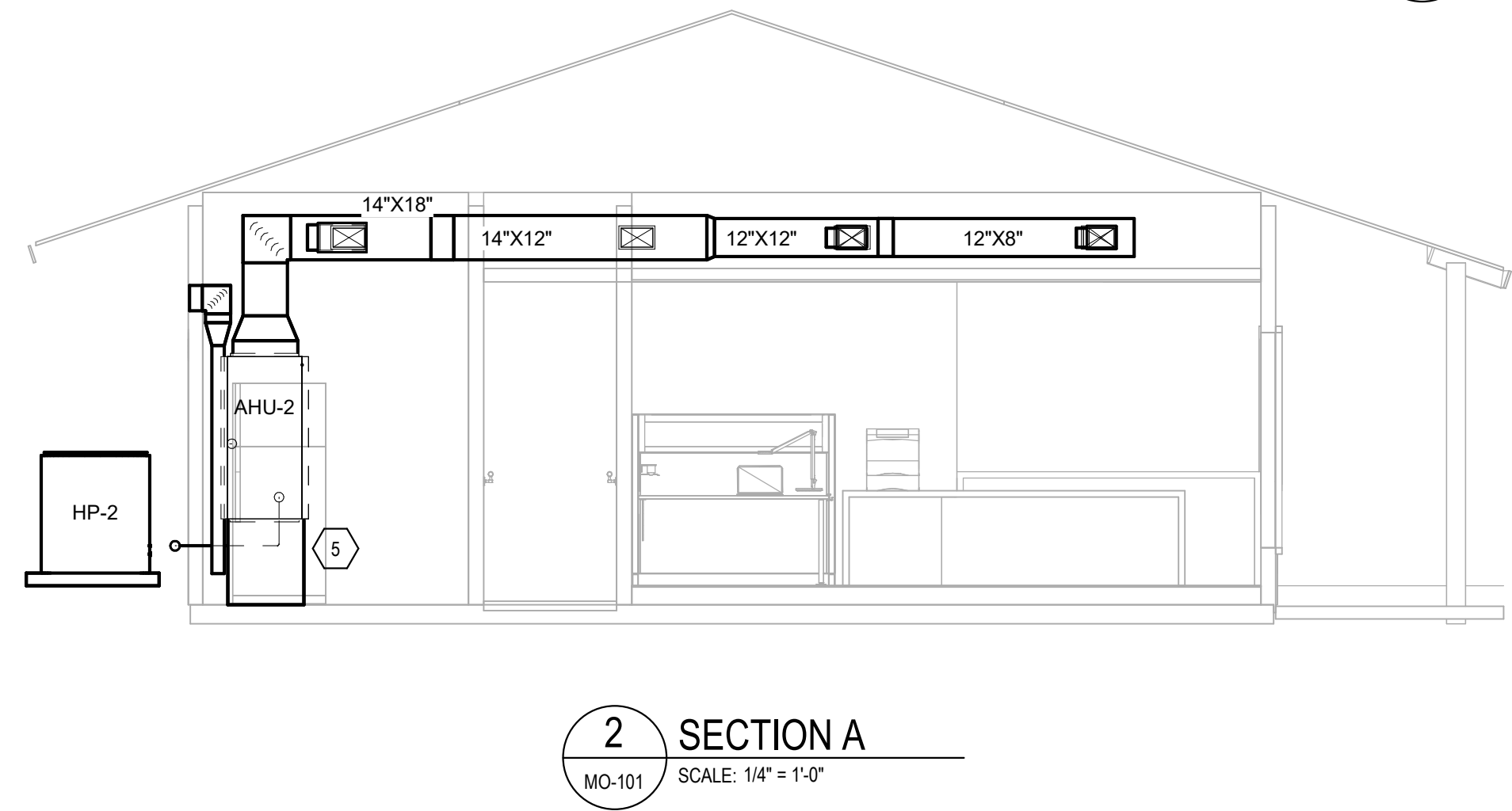
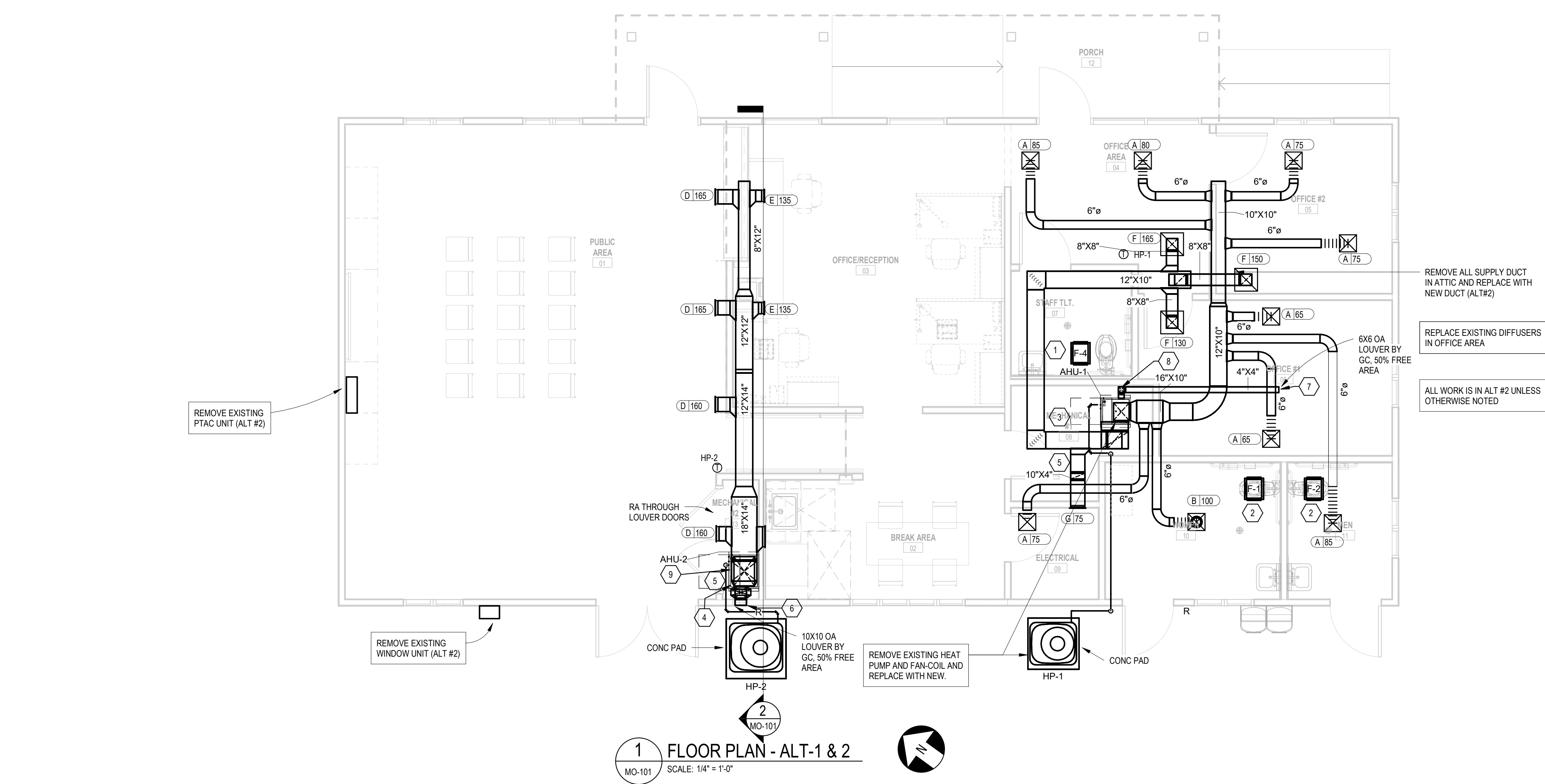
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PROJECT STATUS  
CONSTRUCTION  
DOCUMENTS

OWNER ID  
20-22411-02A

REVISIONS



## NOTES KEYED TO PLAN

- 1 FAN IN BASE BID. EXTEND DUCT TO ROOF JACK. PROVIDE ROOF JACK.
- 2 FAN IN BASE BID. EXTEND DUCT TO ROOF JACK. PROVIDE ROOF JACK.
- 3 EXTEND CONDENSATE DRAIN LINE FULL SIZE TO EXISTING FLOOR DRAIN. LEAVE AIR GAP.
- 4 EXTEND CONDENSATE DRAIN LINE FULL SIZE TO SPLASH BLOCK. PROVIDE SPLASH BLOCK.
- 5 PROVIDE FAN-COIL SUPPORT PLENUM. SEE DETAIL 2/M601.
- 6 EXTEND 8X8 OA DUCT TO WALL LOUVER. 10X10 LOUVER BY GC, 50% FREE AREA. TRANSITION TO 14X4 DUCT, EXTEND DOWN AND CONNECT TO RA PLENUM. PROVIDE BALANCING DAMPER.
- 7 EXTEND 4X4 OA DUCT TO WALL LOUVER. 6X6 LOUVER BY GC, 50% FREE AREA.
- 8 CONNECT 4X4 OA DUCT TO RA PLENUM. PROVIDE BALANCING DAMPER.
- 9 PROVIDE 14X14 RA OPENING IN RETURN DUCT.

REMOVE ALL SUPPLY DUCT IN ATTIC AND REPLACE WITH NEW DUCT (ALT#2)

REPLACE EXISTING DIFFUSERS IN OFFICE AREA

ALL WORK IS IN ALT #2 UNLESS OTHERWISE NOTED

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ENGINEERED DESIGNS  
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NORTH CAROLINA

PROFESSIONAL  
SEAL  
JOHNSON R. QUICCO  
ENGINEER

SCO ID#: 20-22411-02A CONSTRUCTION DOCUMENTS FOR BID

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN DNF  
CHECKED JRQ  
PROJECT NO. 1361-20  
DATE 7/27/2025  
SHEET NAME MECHANICAL PLANS  
SHEET NO. MO-101

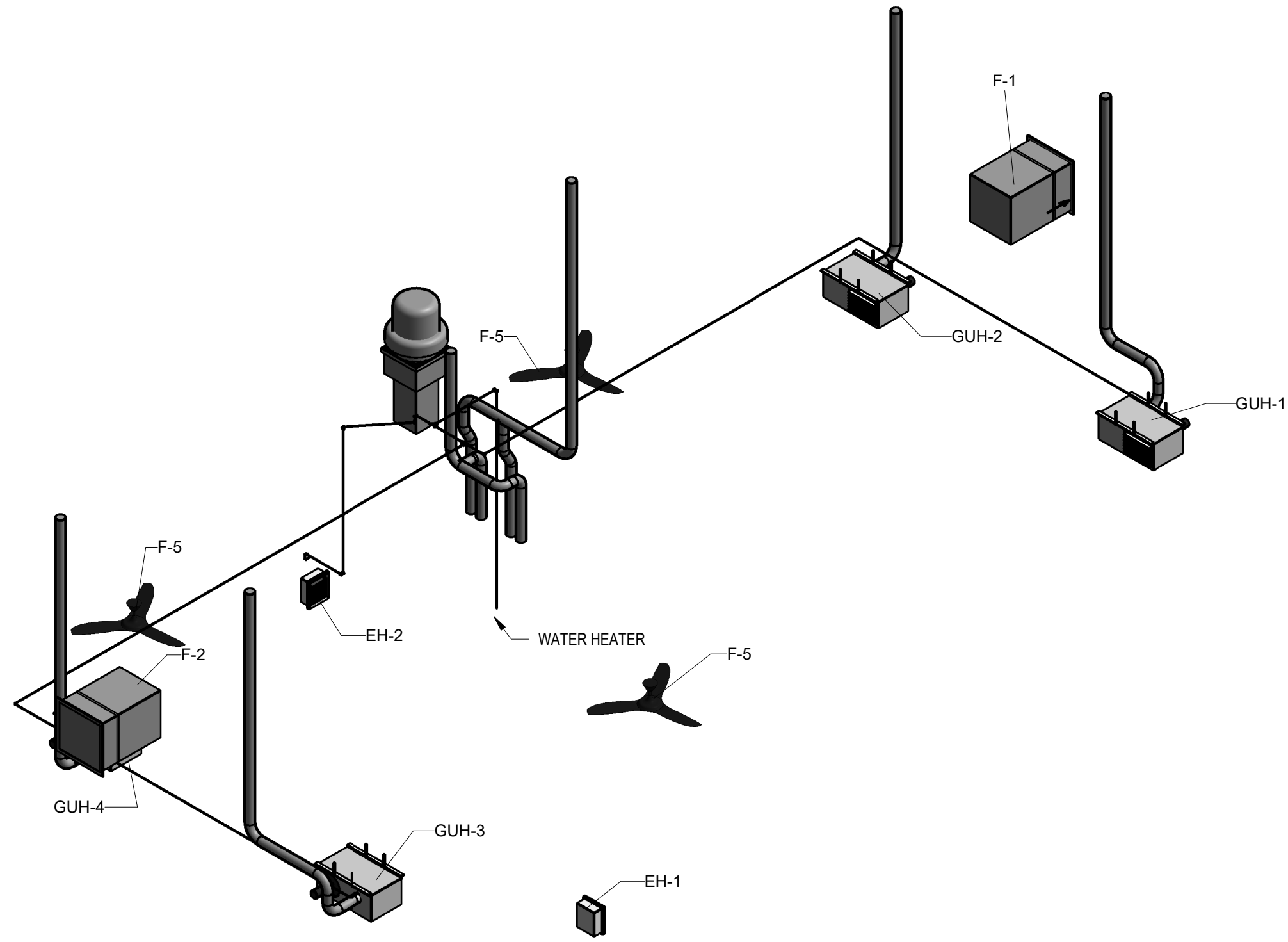
MO-101



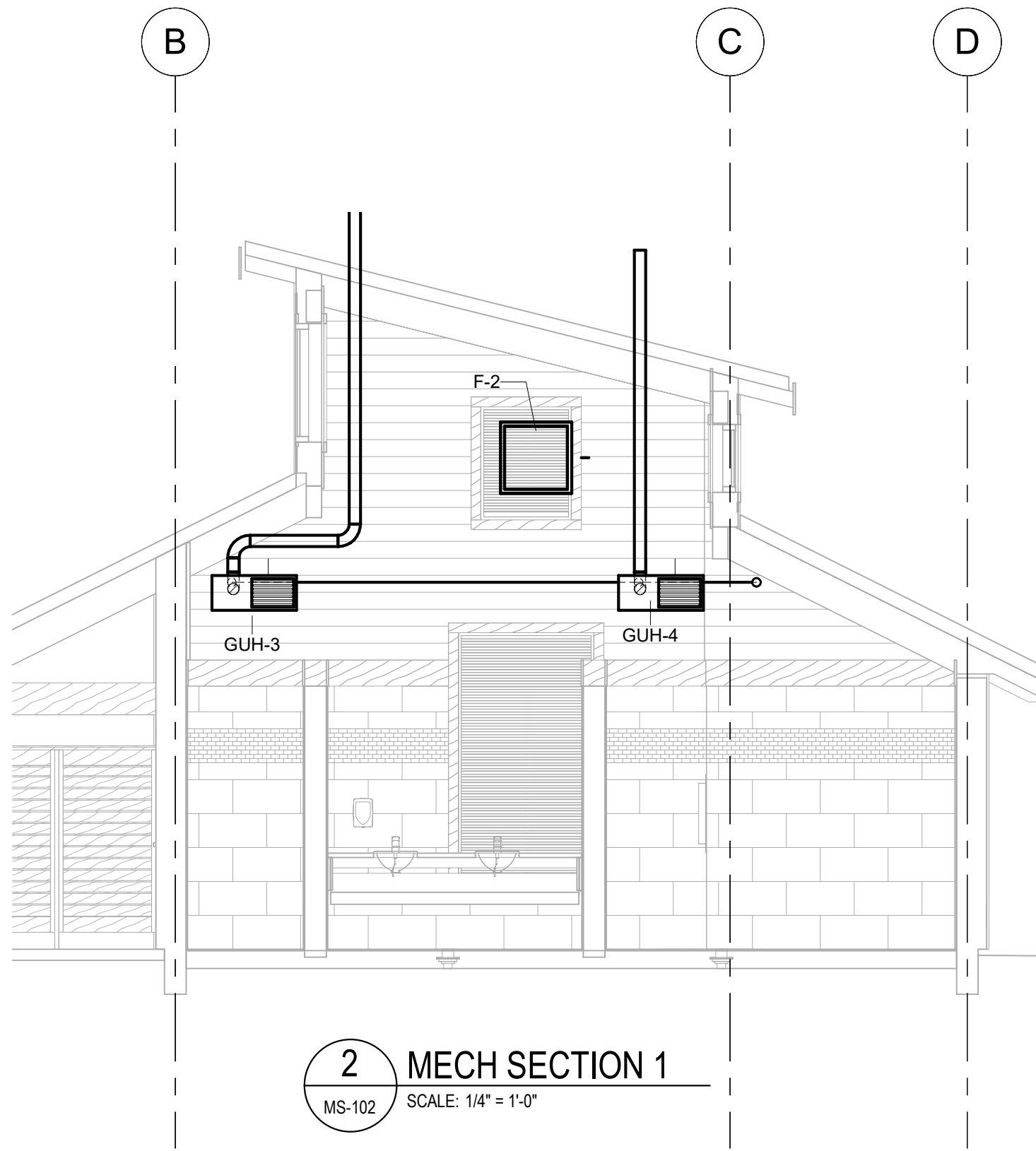




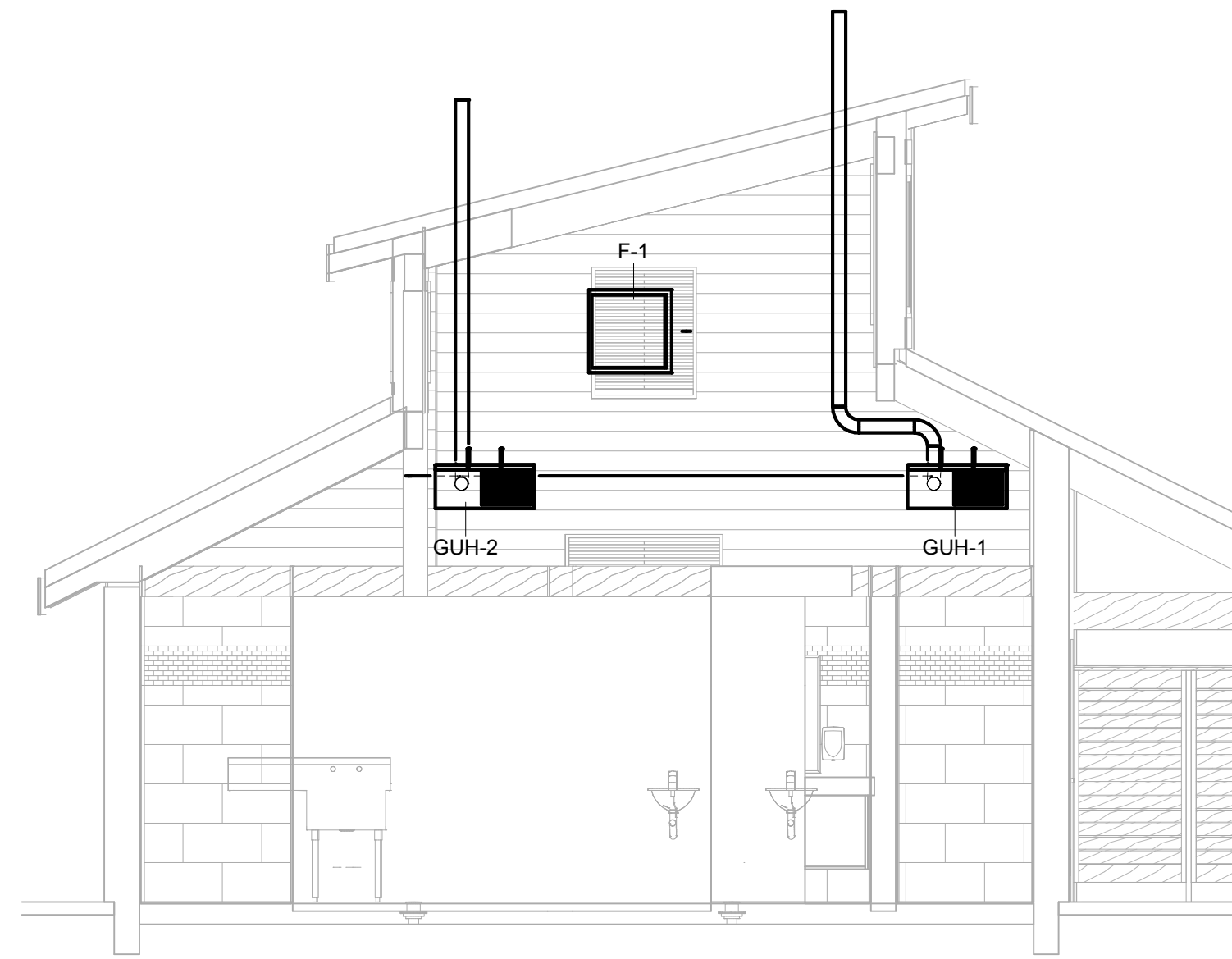
7/23/2025 5:34:51 AM



1 ISOMETRIC SHOWER BLDG  
MS-102 SCALE:



2 MECH SECTION 1  
MS-102 SCALE: 1/4" = 1'-0"



3 MECH SECTION 2  
MS-102 SCALE: 1/4" = 1'-0"

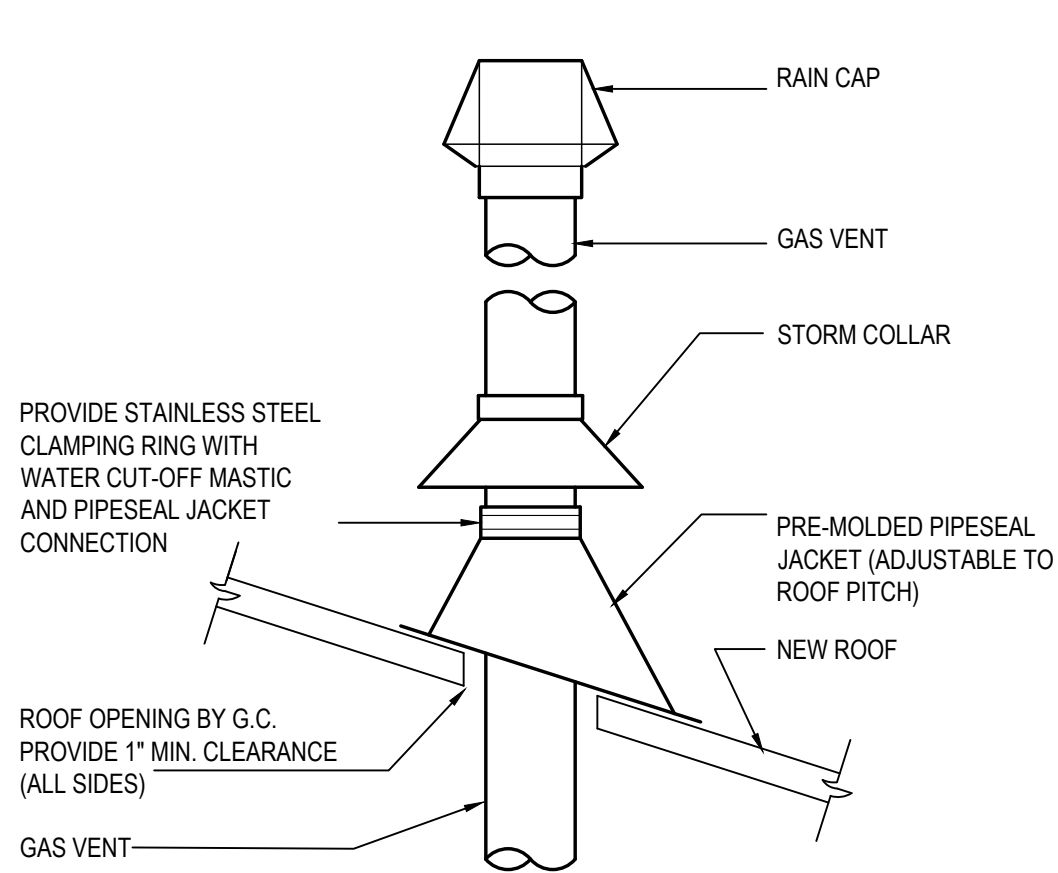
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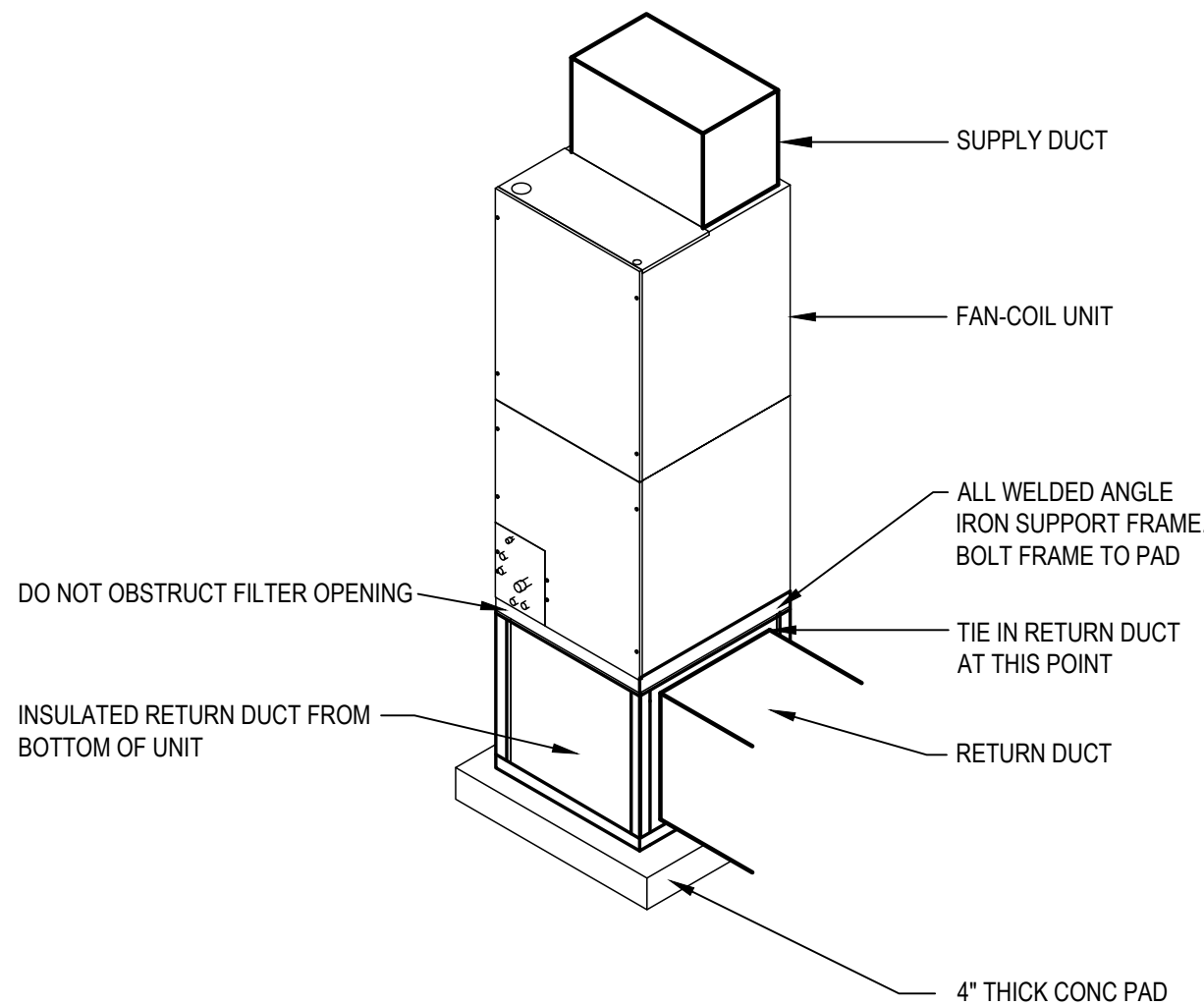
SCO ID#: 20-22411-02A CONSTRUCTION DOCUMENTS FOR BID

REVISIONS	
PROJECT STATUS CONSTRUCTION DOCUMENTS	
OWNER ID 20-22411-02A	
Finch & Associates 309 North Boylan Avenue Raleigh, NC 27603-1402 T 919   833-1212 F 919   834-3203 NCBELS Lic. No. P-1845 NCBOL1 Lic. No. C-656	
<b>FINCH &amp; ASSOCIATES</b> engineering landscape architecture land surveying	
PETTIGREW STATE PARK CAMPGROUND AND OFFICE IMPROVEMENTS 2252 LAKE SHORE ROAD CRESWELL, NORTH CAROLINA	
DRAWN DNF	CHECKED JRQ
PROJECT NO. 1361-20	
DATE 06/27/22	
SHEET NAME MECH ISOMETRIC, SECTIONS	
SHEET NO. <b>MS-102</b>	

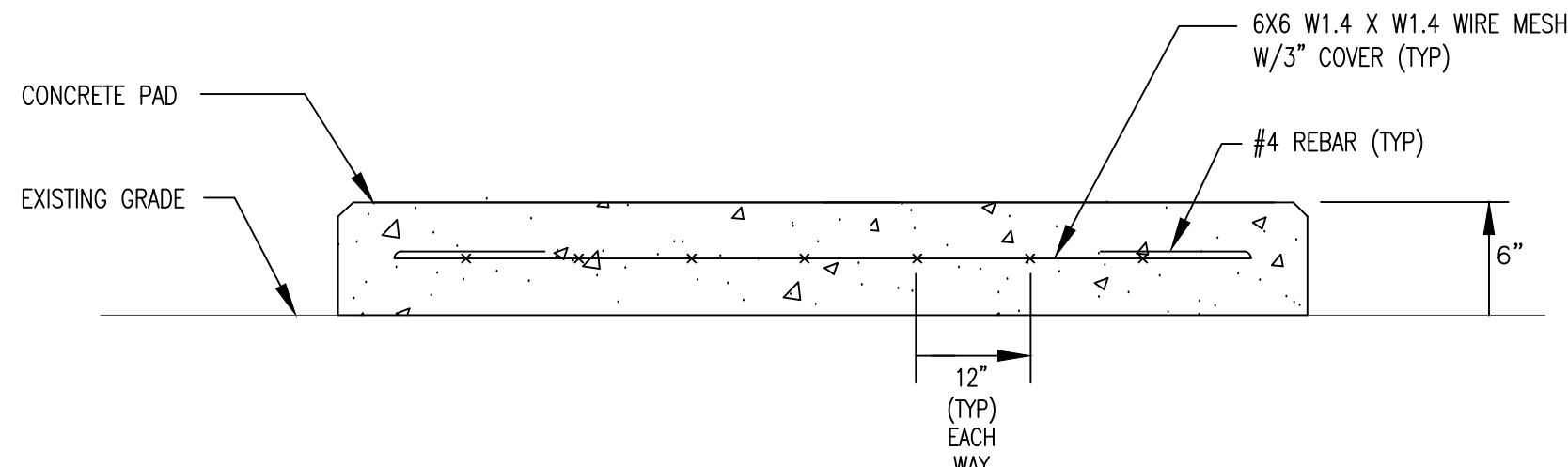




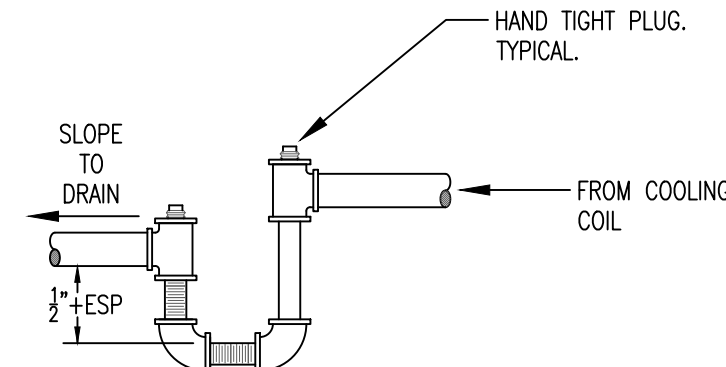
1 GAS FLUE VENT INSTALLATION DETAIL  
M-601 SCALE: NOT TO SCALE



2 FAN-COIL SUPPORT DETAIL  
M-601 SCALE: NOT TO SCALE



3 EXTERIOR CONCRETE PAD DETAIL  
M-601 SCALE: NONE



4 CONDENSATE TRAP DETAIL  
M-601 SCALE: NONE

Ventilation Sizing Summary for HP-1			
Project Name: PETTIGREW STATE PARK OFFICE 20220621		06/21/2022	
Prepared by: ENGINEERED DESIGNS INC		02:55PM	

1. Summary  
Ventilation Sizing Method: Sum of Space OA Airflows  
Design Ventilation Airflow Rate: 47 CFM

2. Space Ventilation Analysis

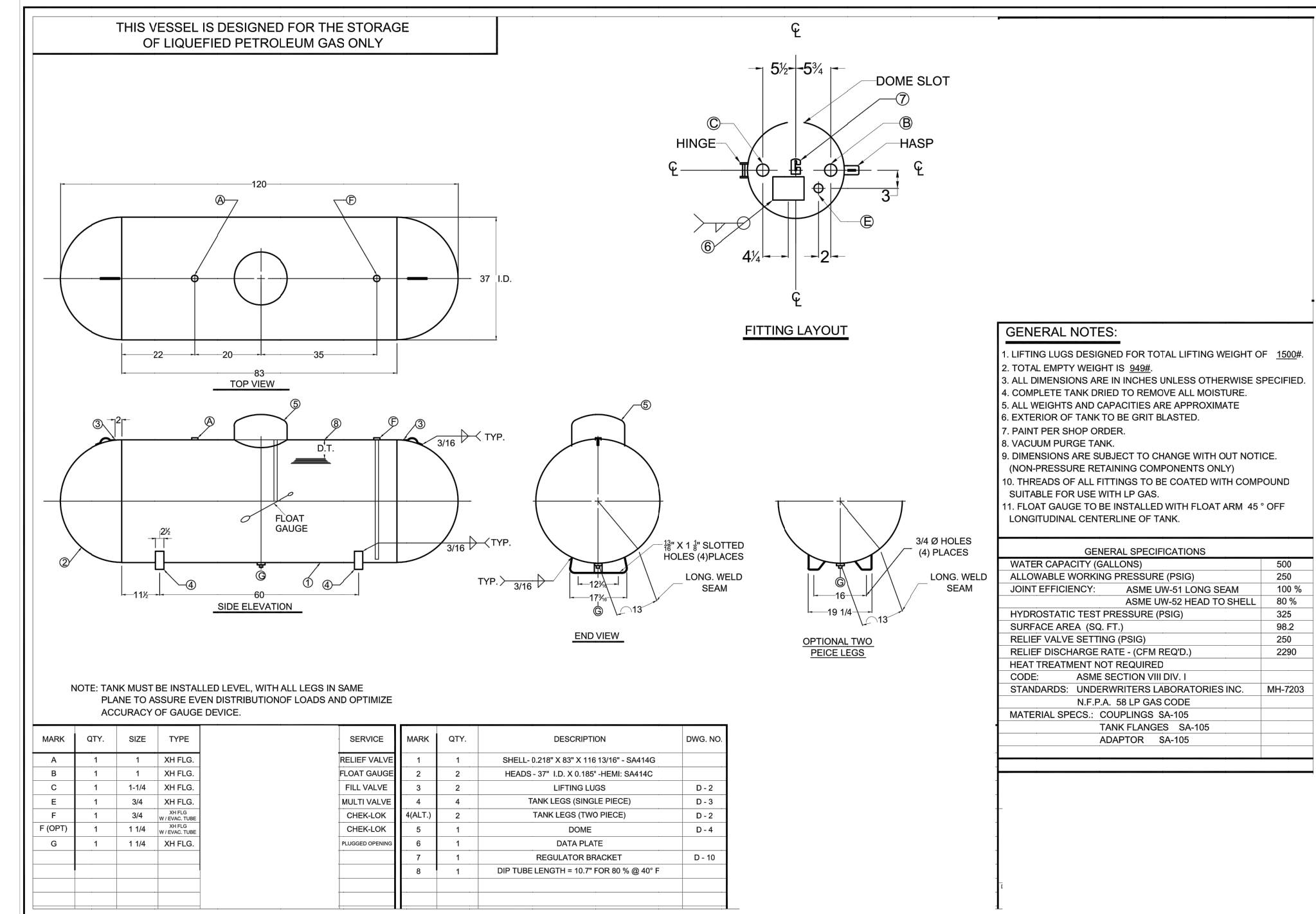
Zone Name / Space Name	Mult.	Floor Area (ft²)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/person)	Required Outdoor Air (CFM/ft²)	Required Outdoor Air (CFM)	Required Outdoor Air (% of supply)	Uncorrected Outdoor Air (CFM)
Zone 1									
OFFICE AREA	1	100.7	1.0	166.2	5.00	0.06	0.0	0.0	11.0
OFFICE 2	1	102.2	1.0	147.9	5.00	0.06	0.0	0.0	11.1
OFFICE 1	1	129.0	1.0	131.1	5.00	0.06	0.0	0.0	12.7
MENS TOIL	1	49.2	0.0	83.5	0.00	0.06	0.0	0.0	3.0
WOMENS TOIL	1	82.4	0.0	99.6	0.00	0.06	0.0	0.0	4.9
ELECTRICAL	1	27.7	0.0	76.0	0.00	0.06	0.0	0.0	1.7
STAFF TOIL	1	42.6	0.0	8.7	0.00	0.06	0.0	0.0	2.6
Totals (incl. Space Multipliers)				713.0					47.0

Ventilation Sizing Summary for HP-2			
Project Name: PETTIGREW STATE PARK OFFICE 20220621		06/21/2022	
Prepared by: ENGINEERED DESIGNS INC		02:55PM	

1. Summary  
Ventilation Sizing Method: Sum of Space OA Airflows  
Design Ventilation Airflow Rate: 206 CFM

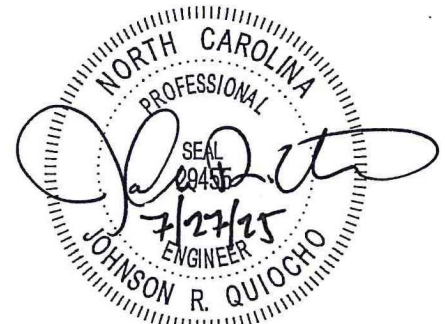
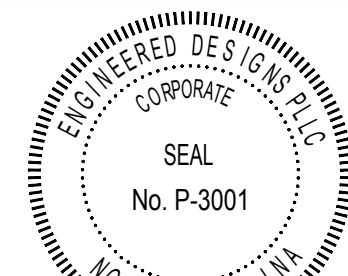
2. Space Ventilation Analysis

Zone Name / Space Name	Mult.	Floor Area (ft²)	Maximum Occupants	Maximum Supply Air (CFM)	Required Outdoor Air (CFM/person)	Required Outdoor Air (CFM/ft²)	Required Outdoor Air (CFM)	Required Outdoor Air (% of supply)	Uncorrected Outdoor Air (CFM)
Zone 1									
OFFICE - RECEPTION	1	288.5	3.0	266.0	5.00	0.06	0.0	0.0	32.3
Public Area A	1	377.4	10.0	396.0	7.50	0.06	0.0	0.0	97.6
Public Area B	1	246.9	6.0	255.4	7.50	0.06	0.0	0.0	59.8
BREAK AREA	1	135.6	0.0	327.5	5.00	0.12	0.0	0.0	16.3
Totals (incl. Space Multipliers)				1244.9					206.1



5 PROPANE TANK DETAIL  
M-601 SCALE: NONE

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REVISIONS

PROJECT STATUS  
CONSTRUCTION DOCUMENTS

OWNER ID  
16-14421-01A

Finch & Associates  
3010 Anderson Drive, Ste 170  
Raleigh, NC 27609  
T 919 | 833-1212  
F 919 | 834-3203  
NCELS Lic. No. P-1845  
NCELS Lic. No. C-685

FINCH & ASSOCIATES  
engineers, landscape architecture, and surveying

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2262 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

SCO ID#: 20-22411-02A Construction Documents for Bid

DRAWN BY DNF

CHECKED BY JRQ

PROJ. NO. 136120

DATE 7/27/2025

SHEET NAME  
MECHANICAL DETAILS

SHEET  
M-601



6/19/2025 4:18:41 PM

ALTERNATES

1. RENOVATE PUBLIC TOILET AREAS IN EXISTING OFFICE BUILDING.

2. RENOVATE GARAGE AREA IN EXISTING OFFICE BUILDING.

GENERAL PROJECT NOTES

1. VERIFY ALL MECHANICAL EQUIPMENT FOR VOLTAGE, LOAD, BREAKER SIZE, WIRING, FUSING, RECEPTACLE TYPE, LOCATIONS, AND MOUNTING HEIGHTS WITH THE MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN OF ANY ELECTRICAL WORK. PROVIDE ALL RECEPTACLES AND DISCONNECTS AS REQUIRED.

2. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL FINAL EQUIPMENT CONNECTIONS FOR MECHANICAL, AND PLUMBING EQUIPMENT.

3. REFERENCE ALL ARCHITECTURAL, STRUCTURAL, PLUMBING, & HVAC DRAWINGS PRIOR TO CONSTRUCTION.

TYPICAL DEVICE MOUNTING HEIGHT

RECEPTACLES

18" AFF

LIGHT SWITCHES

48" AFF

DATA OUTLETS

18" AFF

EXIT LIGHTS

CEILING

NOTE: DIMENSIONS ARE TO DEVICE CENTERLINE UNLESS NOTED OTHERWISE

COORDINATION NOTE TO ELECTRICAL CONTRACTOR

THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL POWER REQUIREMENT NEEDS FOR DOOR HARDWARE WITH DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL ROUTING OF CONDUIT, WIRING AND TERMINATION POINTS WITH THE ARCHITECT AND DOOR HARDWARE VENDOR PRIOR TO ROUGH-IN. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL JUNCTION BOXES, PUSH-PADS, LOW-VOLTAGE TRANSFORMERS, RELAYS, AND ALL OTHER COMPONENTS AS REQUIRED FOR DOOR HARDWARE TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE ALL INFORMATION IN ORDER TO CORRECTLY PREP THE DOOR INDICATED ON THIS PLAN.

LED LIGHT FIXTURE POWER CIRCUITRY NOTE TO E.C.

CONTRACTOR SHALL NOT EXCEED THE LED MANUFACTURERS RECOMMENDED MAXIMUM LOAD RATINGS FOR LED LIGHT FIXTURE CIRCUITS THAT ARE PROVIDED AND INSTALLED FOR THIS PROJECT. CONTRACTOR SHALL VERIFY ALL LOAD INFORMATION REQUIREMENTS WITH THE LED LIGHT FIXTURE MANUFACTURER (FOR THE ACTUAL LED LIGHT FIXTURES THAT ARE PURCHASED FOR THIS PROJECT) AND INSTALL POWER CIRCUITS TO THESE FIXTURES AS REQUIRED BY THE MANUFACTURERS RECOMMENDATIONS. ANY CHANGES TO THE CIRCUITRY AND/OR FIXTURE SWITCHING ARRANGEMENTS FOR THIS PROJECT SHALL BE DOCUMENTED AND SHOWN ON THE AS-BUILT DOCUMENTS.

ENERGY CODE SUMMARY

METHOD OF COMPLIANCE: ENERGY CODE - PRESCRIPTIVE

ADDITIONAL PRESCRIPTIVE COMPLIANCE

□ C408.2 MORE EFFICIENT HVAC EQUIPMENT PERFORMANCE

□ C408.3 REDUCED LIGHTING POWER DENSITY

□ C408.4 ENHANCED DIGITAL LIGHTING CONTROLS

□ C408.5 ON-SITE RENEWABLE ENERGY

□ C408.6 DEDICATED OUTDOOR AIR SYSTEM

□ C408.7 REDUCED ENERGY USE IN SERVICE WATER HEATING

LIGHTING SCHEDULE

LAMP TYPE REQUIRED IN FIXTURE

NUMBER OF LAMPS IN FIXTURE

BALLAST TYPE USED IN THE FIXTURE

NUMBER OF BALLASTS IN FIXTURE

TOTAL WATTAGE PER FIXTURE

SEE LIGHT FIXTURE SCHEDULE

TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (CABIN)

112W VS. 130W

TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (SHOWER HOUSE)

978W VS. 1,044W

TOTAL INTERIOR WATTAGE SPECIFIED VS. ALLOWED (OFFICE RENO)

1,041W VS. 1,515W

EXTERIOR EFFICIENCY

N/A

EQUIPMENT SCHEDULES WITH MOTORS (NOT USED FOR MECHANICAL SYSTEMS)

MOTOR HORSEPOWER

N/A

NUMBER OF PHASES

N/A

MINIMUM EFFICIENCY

N/A

MOTOR TYPE

N/A

NUMBER OF POLES

N/A

ELECTRICAL 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 ENERGY CODE 2018 EDITION

POWER/DATA SYMBOLS

SYMBOL

DESCRIPTION

⌀ T

WALL MOUNTED DUPLEX RECEPTACLE. "T" INDICATES MOUNTED ABOVE COUNTER-TOP

⌀

SPECIAL PURPOSE RECEPTACLE. COORDINATE RECEPTACLE TYPE WITH ASSOCIATED EQUIPMENT.

⌀

ELECTRICAL EQUIPMENT CONNECTION (HARD-WIRED OR CONNECTED TO SWITCH MOUNTED ON EQUIPMENT)

■

PANELBOARD

⌋

JUNCTION BOX. SIZE PER N.E.C.

⌋

ELECTRICAL UTILITY METER

⌋

POWER PULLBOX

EVCS

DUAL PORT ELECTRIC VEHICLE CHARGING STATION

FB

NEC APPROVED FAN RATED BOX

TX

UTILITY POWER TRANSFORMER

30NF

30 FRAME SIZE  
NF - FUSE SIZE  
-NF INDICATES NON-FUSED

\$M

MOTOR RATED TOGGLE SWITCH, SQD TYPE K OR EQUAL

G

GROUND LOOP CONDUCTOR

⦿

10" X 3/4" COPPER CLAD STEEL GROUND ROD

△

10" X 10" X 10" SERVICE GROUNDING GRID

SYMBOL

DESCRIPTION

⌋

CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS

⌋

UNSWITCHED LIGHTING CIRCUIT

NEW HOMERUN TO PANELBOARD. LETTERS INDICATE PANELBOARD AND NUMBERS INDICATE CIRCUITS IN PANELBOARD

UNDERGROUND ELECTRICAL

LIGHT FIXTURE SYMBOLS

SYMBOL

DESCRIPTION

⌋

LINEAR LED LIGHT FIXTURE. LETTER INDICATES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION. HALF-SHADING INDICATES FIXTURE TO BE PROVIDED WITH 90 MINUTE BATTERY BACK-UP DRIVER.

⌋

WALL MOUNTED LINEAR LED FIXTURE. LETTER INDICATES FIXTURE TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DESCRIPTION. HALF-SHADING INDICATES FIXTURE TO BE PROVIDED WITH 90 MINUTE BATTERY BACK-UP DRIVER

⌋

4'-0" LED STRIP LIGHT FIXTURE

⌋

EXTERIOR EMERGENCY WALLPACK

⌋

PENDANT MOUNTED LIGHT FIXTURE

⌋

INTERIOR WALL MOUNTED EMERGENCY BATTERY BACK-UP EGRESS LIGHT FIXTURE

⌋

EXIT LIGHT, CEILING MOUNTED, DIRECTIONAL ARROW AS INDICATED. SHADING INDICATES FACE

⌋

EXIT LIGHT, WALL MOUNTED, DIRECTIONAL ARROW AS INDICATED. SHADING INDICATES FACE

SYMBOL

DESCRIPTION

\$

SINGLE POLE SWITCH

PC

PHOTOCELL, ROOF MOUNTED WITH THE SENSOR POINTED IN A NORTHERLY DIRECTION

VS

VACANCY SENSOR TO TURN OFF LIGHTS AFTER A PRE-PROGRAMMED TIME OF NO MOTION.

SYMBOL

DESCRIPTION

SB

PHOTOELECTRIC SMOKE DETECTOR WITH AUDIBLE SOUNDER BASE

CO

COMBINATION PHOTOELECTRIC CARBON-MONOXIDE/SMOKE DETECTOR WITH AUDIBLE SOUNDER BASE

SYMBOL

DESCRIPTION

EV2

EV2: PEDESTAL MOUNTED DUAL-PORT EV CHARGING STATION SPECIFICATION: MFG. CHARGEPOINT CT-4021, 23FT CORD X2, ADJUSTABLE AMPERAGE-12/23 AMPS X2, INPUT CURRENT-30AMPS, VOLTAGE 208V/1PH, BREAKER SIZE-40AMP X2, ENCLOSURE NEMA TYPE 3R, TEMP RANGE-(-40 DEG TO +122 DEG F), OTHER MANUFACTURERS ARE BOSCH AND LEGRAND.

ABBREVIATIONS

SYMBOL

DESCRIPTION

C

CONDUIT

EGC

EQUIPMENT GROUND CONDUCTOR

EM

EMERGENCY

EWC

ELECTRIC WATER COOLER

EVH

ELECTRIC WATER HEATER

G, GND

GROUND

GEC

GROUNDING ELECTRODE CONDUCTOR

GFI

GROUND FAULT INTERRUPTER

KMIL

ONE THOUSAND CIRCULAR MILS

KVA

KILO-VOLT AMPERES

KW

KILOWATTS

KWH

KILOWATT-HOURS

MCB

MAIN CIRCUIT BREAKER

MLO

MAIN LUG ONLY

NEC

NATIONAL ELECTRICAL CODE

NTS

NOT TO SCALE

PH, Ø

PHASE

UNON

UNLESS OTHERWISE NOTED

V

VOLTS

WP

WEATHERPROOF

WFR

TRANSFORMER

GENERAL SYMBOLS LEGEND NOTES:

A. NOT ALL SYMBOLS SHOWN ON THIS SHEET ARE NECESSARILY USED ON THE DRAWINGS AND WHEN NOT USED THEY SHOULD BE ASSUMED NOT TO APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INCLUDED ON DRAWINGS THAT ARE NOT SHOWN HERE AND ARE IDENTIFIED ON THE DRAWINGS PERTAINING TO THAT PARTICULAR SYSTEM.

B. REFER TO SPECIFICATIONS, ARCHITECTURAL DRAWINGS, APPLICABLE SCHEDULES AND DETAILS FOR ADDITIONAL INFORMATION REGARDING EACH DEVICE IDENTIFIED ON THIS LEGEND.

C. SUBSCRIPTS SHOWN ON THE LEGEND ON A DEVICE MAY BE APPLIED TO ANY DEVICE IN THE SAME GROUP. I.E. "C" INDICATES COUNTER HEIGHT.

D. ABBREVIATIONS MAY BE APPLIED TO ANY SYMBOL.

E. REFER TO OTHER TRADE DRAWINGS FOR THOSE TRADES EQUIPMENT SYMBOLS AND ABBREVIATIONS.

F. VERIFY LOCATIONS AND DIMENSIONS OF ALL EQUIPMENT AND COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.

G. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND ELEVATIONS OF CASEWORK PRIOR TO ROUGH-IN.

H. ALL BRANCH CIRCUITS SHALL CONSIST OF 2#12 + #12G IN 1/2" THINWALL IN EMT UNLESS OTHERWISE NOTED.

I. MINIMUM RACEWAY SIZE IS 1/2" FOR ALL CIRCUITS UNLESS OTHERWISE NOTED.

J. ALL FIRE ALARM RACEWAY AND JUNCTION BOXES SHALL BE PAINTED OR DYED RED.

K. ALL SECURITY AND COMMUNICATIONS CONDUIT SHALL BE PROVIDED WITH A THERMOPLASTIC (NYLON) INSULATED BUSHINGS AT BOTH THE DEVICE OUTLET AND THE END OF THE CONDUIT, PRIOR TO CABLING LEAVING RACEWAY.

MECHANICAL/ELECTRICAL WIRING COORDINATION NOTE

THE MECHANICAL AND ELECTRICAL CONTRACTORS SHALL FULLY COORDINATE ALL WORK PRIOR TO ROUGH-IN OF ANY MECHANICAL OR ELECTRICAL EQUIPMENT. REFER TO MECHANICAL SCHEDULES FOR DESIGNATIONS OF ALL EQUIPMENT REQUIRING CONTROL WIRING.

THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROL WIRING AND HARDWARE RELATED TO CONTROL WORK (I.E. TRANSFORMERS, CONTROL MODULES, CONNECTORS, ETC.). ALL CONTROL WIRING SHALL BE PLENUM RATED AND INSTALLED IN CONDUIT.

THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVIDING ALL MATERIALS AND LABOR TO PROVIDE THE 120V POWER SOURCES REQUIRED TO OPERATE ALL LOW VOLTAGE MECHANICAL EQUIPMENT AND MAKE FINAL 120 VOLT CONNECTIONS TO CONTROL EQUIPMENT. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL JUNCTION BOXES AND/OR RECEPTACLES, 120 VOLT WIRING AND SHALL INSTALL ALL WIRING IN CONDUIT.

WIRE/CONDUIT FOR MECHANICAL EQUIPMENT IS SIZED USING THE 75°C COLUMN FROM NEC TABLE 310-16. CONFIRM MECHANICAL EQUIPMENT TERMINATIONS ARE RATED FOR 75°C OR HIGHER.

ROUGH-IN NOTES

RECEPTACLES:  
MOUNT AT 18" A.F.F. TO CENTERLINE UNLESS OTHERWISE NOTED. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.

ABOVE-COUNTER RECEPTACLES:  
MOUNT AT 4" ABOVE COUNTER TOP OR BACKSPLASH AS APPLICABLE TO CENTERLINE. WHERE COUNTER TOP IS NOT SHOWN ON ARCHITECTURAL PLANS, MOUNT AT 48" A.F.F. TO CENTERLINE. ADJUST TO MATCH MASONRY COURSES IF APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB. BOXES FOR DEVICES ON OPPOSITE SIDES OF A COMMON WALL MUST BE OFFSET 12".

TELECOM:  
PROVIDE DOUBLE-GANG BOX WITH SINGLE GANG PLASTER RING. MOUNT OUTLET BOXES AT 18" A.F.F. TO CENTERLINE UNLESS OTHERWISE NOTED. ADJUST ALL MOUNTING HEIGHTS TO MATCH MASONRY COURSES AS APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.

SWITCHING:  
MOUNT AT 48" A.F.F. TO TOP. ADJUST TO MATCH MASONRY COURSES AS APPLICABLE. MOUNT ALL BOXES TRUE AND PLUMB.

FIRE ALARM:  
MOUNT ALL PULL STATIONS AT 48" A.F.F. TO CENTERLINE. MOUNT ALL SPEAKER/STROBES, STROBES AND REMOTE ALARM INDICATORS 80" A.F.F. TO BOTTOM OF DEVICE UNLESS OTHERWISE NOTED. COORDINATE LOCATION OF FAN CONTROL RELAY WITH DIVISION 23 CONTRACTOR. PROVIDE DUCT DETECTORS TO DIVISION 23 CONTRACTOR FOR MOUNTING. ALL WIRING BY DIVISION 26 CONTRACTOR. WIRE DUCT DETECTORS TO REMOTE ALARM INDICATORS IN CORRIDORS. COORDINATE LOCATIONS OF MAGNETIC DOOR HOLDERS PRIOR TO INSTALLATION. ADJUST ALL MOUNTING HEIGHTS TO MATCH MASONRY COURSES AS APPLICABLE. ALL DEVICES TO BE MOUNTED TRUE AND PLUMB.

EXPOSED ELECTRICAL INSTALLATION NOTES

A. INSTALLATION OF THE ELECTRICAL BOXES AND SYSTEMS SHALL BE CONCEALED WITHIN WALLS, CEILINGS, AND SURFACES THROUGHOUT. ALL DEVICES SHALL BE FLUSH MOUNT OR RECESS MOUNT AS NOTED ON CONTRACT DOCUMENTS. LOCATIONS WHERE CONCEALED FLUSH MOUNT IS NOT POSSIBLE DUE TO OBSTRUCTIONS IN THE CAVITY, OR SIMILAR CONDITION, SHALL BE IDENTIFIED BY CONTRACTOR TO THE PROJECT ARCHITECT/ENGINEER IN WRITING. SURFACE MOUNT OF DEVICES AND EXPOSED RACEWAY SHALL ONLY BE PERMITTED IN AREAS NOTED OR WHERE WRITTEN APPROVAL OF THE PROJECT ARCHITECT/ENGINEER HAS BEEN GIVEN.

B. EXPOSED DEVICES AND RACEWAY IN THE PARKING DECK AREA AND WITHIN ELECTRICAL/MECHANICAL/TELECOM ROOMS (I.E. UTILITY SPACES) SHALL BE NEATLY RUN PLUMB AND LEVEL WITH BUILDING ELEMENTS, PARALLEL AND PERPENDICULAR TO WALLS/FLOORS AND CEILINGS. RACEWAYS SHALL BE NEATLY GROUPED AND RUN TOGETHER WHERE POSSIBLE. THE USE OF STANDOFF (MINERALLAC) TYPE STRAPS SHALL NOT BE PERMITTED WHERE CONDUIT IS LOCATED WITHIN 10'-0" OF THE FLOOR. ALL EXPOSED CONDUIT INSTALLED WITHIN UTILITY SPACES SHALL UTILIZE OFFSETS AND BE SECURED WITH ONE (1) HOLE OR TWO (2) HOLE STRAPS. DEVICE BOXES INSTALLED WITHIN UTILITY SPACES SHALL BE LISTED FOR SURFACE MOUNT APPLICATIONS AND CONTAIN NO SHARP EDGES I.E. SHALL BE HANDY BOX TYPE.

VOLTAGE DROP WIRING NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING VOLTAGE DROP CONDITIONS OF FINAL CONDUIT / CONDUCTOR ROUTINGS DO NOT EXCEED THE FOLLOWING MAXIMUM VALUES AND UPSIZE CONDUCTORS AND CONDUIT AS REQUIRED:

A. FEEDER CIRCUITS: MAX 3% VOLTAGE DROP (PER NEC ARTICLE 215.2(A)(4) INFORMATIONAL NOTE NO. 2)

B. BRANCH CIRCUITS: MAX 3% VOLTAGE DROP (PER NEC ARTICLE 215.19(A)(1) INFORMATIONAL NOTE NO. 4)

C. COMBINED VOLTAGE DROP ON FEEDER AND BRANCH CIRCUIT TO THE FURTHEST DEVICE OUTLET / UTILIZATION EQUIPMENT SHALL NOT EXCEED 5%.

D. EQUIPMENT GROUND CONDUCTORS SHALL BE UPSIZED AS REQUIRED PER NEC ARTICLE 250.122(B).

WHERE THE CONDUCTOR LENGTH FROM THE PANEL TO THE LAST OUTLET ON A 120 VOLT CIRCUIT EXCEEDS 75 FEET, THE BRANCH CIRCUIT CONDUCTORS SHALL NOT BE SMALLER THAN #10 AWG. WHERE CONDUCTOR LENGTH FROM THE PANEL TO THE LAST OUTLET EXCEEDS 125 FEET CONDUCTORS SHALL NOT BE SMALLER THAN #8 AWG.

LIGHT FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MOUNTING	VOLTS/WATTS	LAMPS		MANUFACTURER	SERIES NO.	REMARKS
				TYPE	LUMENS			
A	4' LINEAR LED PENDANT LIGHT FIXTURE	PENDANT	120/28	LED	3700	COOPER HUBBELL LITHONIA MOBERN	METALUX-4SNLED-LD5-37SL-LN-UNV-L835-CD1-U-AYC CHAIN SET	PENDANT MOUNT FIXTURES AT 8'-0" A.F.F. UNLESS NOTED OTHERWISE
C	6" PENDANT LED CYLINDER LIGHT FIXTURE	PENDANT	120/22.7	LED	2000	HUBBELL COOPER LITHONIA MOBERN	PRESCOLITE: LTC-6RD-PCC-20L35K8WD-DM1-SS-BL	PENDANT MOUNT FIXTURES AT 10'-0" A.F.F. UNLESS NOTED OTHERWISE
D	2' LINEAR WALL MOUNT LED WET LOCATION FIXTURE	WALL	120/36	LED	5200	JADEMAR COOPER LITHONIA MOBERN	JVTHB-SL-2-36W-40K-D-SAC-SS-SMB	FIXTURE SHALL BE WET LOCATION RATED PROVIDE MOUNTING HARDWARE FOR WALL MOUNTING
F	6" PENDANT LED CYLINDER LIGHT FIXTURE	PENDANT	120/12	LED	1000	HUBBELL COOPER LITHONIA MOBERN	PRESCOLITE: LTC-6RD-PCC-10L35K8WD-DM1-SS-BL	PENDANT MOUNT FIXTURES AT 10'-0" A.F.F. UNLESS NOTED OTHERWISE
L2	2' LINEAR WALL MOUNT LED FIXTURE	WALL	120/33	LED	4000	HE WILLIAMS COOPER LITHONIA MOBERN	WMAUD-2-L20-840U-L20-840D-A-F-DIMU-DIMD-UNV	FIXTURE SHALL BE DAMP LOCATION RATED. WALL MOUNT FIXTURES AT 8'-0" A.F.F. UNLESS NOTED OTHERWISE
L4	4' LINEAR WALL MOUNT LED FIXTURE	WALL	120/64	LED	8000	HE WILLIAMS COOPER LITHONIA MOBERN	WMAUD-4-L40-840U-L40-840D-A-F-DIMU-DIMD-UNV	FIXTURE SHALL BE DAMP LOCATION RATED WALL MOUNT FIXTURES AT 8'-0" A.F.F. UNLESS NOTED OTHERWISE
P4	4' LINEAR LED PENDANT LIGHT FIXTURE	PENDANT	120/39	LED	5000	CURRENT COOPER LITHONIA MOBERN	LITE-CONTROL: SAE101-P-ID-STD-4-SOF-CX-40K-I050-D075	
S4	4' LINEAR LED SURFACE LIGHT FIXTURE	SURFACE	120/11.3	LED	1500	HE WILLIAMS COOPER LITHONIA MOBERN	39-4-L30-840-A-(L15)-DIM-UNV	
WP	EXTERIOR WALL PACK	WALL	120/13	LED	1450	MOBERN KENALL HUBBELL	SAYLITE: DBEL-ACEM-BR-SDT-PC XXX XXX	PROVIDE WITH INTEGRAL PHOTOCELL PROVIDE WITH 90 MINUTE BATTERY BACKUP
EM	EMERGENCY LIGHT FIXTURE	WALL	120/6.6	LED	NA	MOBERN SURE LITES HUBBELL	SAYLITE: RMR-16-LED XXX XXX	PROVIDE WITH 90 MINUTE BATTERY BACKUP PROVIDE WITH SELF-DIAGNOSTIC FEATURE
EX/EM	EXIT LIGHT FIXTURE WITH EMERGENCY HEADS	WALL OR CEILING AS INDICATED	120/2	LED	N/A	MOBERN SURE LITES HUBBELL	SAYLITE: CKXTEU-#R-W-W-EM XXX XXX	PROVIDE WITH 90 MINUTE BATTERY BACKUP PROVIDE WITH SELF-DIAGNOSTIC FEATURE

LIGHT FIXTURE SCHEDULE NOTES:

1. ALL LIGHTING FIXTURES SHALL BE U.L. LISTED.

2. ALL LED FIXTURE SHALL HAVE MINIMUM CRI OF 80 UNLESS SPECIFICALLY NOTED OTHERWISE.

3. LUMEN OUTPUT NOTED FOR LED FIXTURES IS THE MINIMUM THAT MUST BE PROVIDED FOR THE FIXTURE SPECIFIED.

4. VERIFY ALL MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH-IN.

5. COORDINATE ALL COLORS/FINISH OPTIONS OF LIGHT FIXTURES WITH THE ARCHITECT PRIOR TO PURCHASING.

6. ALL LIGHTING FIXTURES INDICATED WITHIN THE LIGHTING FIXTURE SCHEDULE SHALL BE PROVIDED WITH ALL REQUIRED MOUNTING HARDWARE, CONNECTORS AND ANY OTHER NEEDED FIXTURE OPTIONS FOR A COMPLETE AND OPERATIONAL INSTALLATION AS INTENDED ON THE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED COMPONENTS AT NO ADDITIONAL COST TO THE OWNER.

7. PROVIDE 20'-0" SQUARE STEEL POLE AND MOUNTING ARMS IN CONFIGURATIONS AS INDICATED ON THE PLANS FOR MOUNTING FIXTURES AT THE TOP OF THE DECK. COORDINATE INSTALLATION OF POLE ON TOP OF CONCRETE PARAPET / COLUMNS WITH STRUCTURAL PLANS AS REQUIRED. CONFIRM POLE AND FIXTURE FINISH WITH ARCHITECT PRIOR TO PURCHASE.

8. THE FIXTURE SHALL BE CONFIGURED TO DIM TO 50% OF LIGHT OUTPUT IF MOTION IS NOT DETECTED FOR 30 MINUTES. WHEN MOTION IS DETECTED, THE FIXTURE SHALL AUTOMATICALLY RETURN TO 100% LIGHT OUTPUT.

9. THE FIXTURE SHALL BE CONFIGURED TO DIM TO 50% OF LIGHT OUTPUT IF MOTION IS NOT DETECTED FOR 30 MINUTES. WHEN MOTION IS DETECTED, THE FIXTURE SHALL AUTOMATICALLY RETURN TO 100% LIGHT OUTPUT. ADDITIONALLY, WHEN ADEQUATE DAY-LIGHT LEVELS ARE DETECTED, THE FIXTURE SHALL SHUT-OFF. THE FIXTURE SHALL TURN ON AGAIN ONCE DAY-LIGHT LEVELS DROP BELOW ACCEPTABLE FOOTCANDLE LEVELS WITHIN THE DECK. THE CONTRACTOR SHALL CONFIRM MINIMUM, ACCEPTABLE DAY-LIGHT FOOTCANDLE LEVEL AT WHICH POINT THE FIXTURE SHUTS OFF WITH THE OWNER AS PART OF THE FIXTURE CONFIGURATION / START-UP SERVICES.

10. CONTRACTOR SHALL PROVIDE OWNER WITH (2) NEW CONFIGURATION TOOLS AT THE COMPLETION OF THE PROJECT AND TRAINING ACCORDINGLY, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

11. PROVIDE SWIVEL PENDANT MOUNT FITTING FOR SECURING FIXTURES TO JUNCTION BOX AT DECK STRUCTURE.

LIGHT FIXTURE SCHEDULE NOTES (CONTINUED):

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PROFESSIONAL

SEAL

028031

ENGINEER

DANIEL J. HOLTZCLAW

07-27-25

REVISIONS

PROJECT STATUS  
CONSTRUCTION DOCUMENTS

OWNER ID  
20-22411-02A

SCO ID #: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN  
D.J.H

CHECKED  
J.R.Q

PROJECT NO.  
20061

DATE  
07/27/2025


SHEET NAME  
ELECTRICAL LEGEND AND NOTES

SHEET NO.  
E-001



1	NEW SHOWERHOUSE AND RESTROOM FACILITY. REFER TO PLAN SHEETS E101S AND E201S.
2	NEW CAMPER CABIN. REFER TO PLAN SHEETS E101C AND E201C.
3	NEW RV/CAMPER ELECTRICAL HOOKUP SITE. REFER TO PARTIAL ELECTRICAL PLANS E003 AND E004.
4	<u>ALTERNATE 1</u> : RENOVATE PUBLIC RESTROOMS IN EXISTING PARK OFFICE. REFER TO SHEETS E101R AND 201R
5	<u>ALTERNATE 2</u> : RENOVATE INTERIOR OF EXISTING PARK OFFICE. REFER TO SHEETS E101W AND E201W.
6	EXISTING SUE TO REMAIN.
7	COORDINATE ROUTING OF CONDUIT WITH OTHER UTILITIES IN THE SAME AREA.

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

<div>  <div> <div>FINCH</div> <div>FINCH &amp; ASSOCIATES</div> <div>engineering landscape architecture land surveying</div> </div> </div>	<div> <div>Finch &amp; Associates</div> <div>309 North Boyden Avenue</div> <div>Redding, NC 27053-1121</div> <div>F 919   833-1272</div> <div>F 919   834-3203</div> <div>NCBELS Lic. No. P-18445</div> <div>NCBOLT Lic. No. C-626</div> </div>
	<div> <div>PROJECT STATUS</div> <div>CONSTRUCTION</div> <div>DOCUMENTS</div> </div>
<div> <div>OWNER ID</div> <div>20-22-41-02A</div> </div>	<div> <div>REVISIONS</div> </div>

DRAWN	DJH
CHECKED	JRQ
PROJECT NO.	20061
DATE	07/27/2025
SHEET NAME OVERALL ELECTRICAL SITE PLAN	
SHEET NO.	E-002



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### NOTES KEYED TO SITE PLAN

- 1 ALL ELECTRICAL EXTERIOR MOUNTED PANELBOARDS SHALL BE AT A MINIMUM ELEVATION OF 11'-0" ABOVE SEA LEVEL TO BOTTOM OF PANEL. VERIFY WITH CIVIL/SITE ENGINEER AND GENERAL CONTRACTOR FOR EXACT MOUNTING HEIGHT REQUIRED ABOVE GRADE TO MEET THIS MINIMUM REQUIREMENT. THIS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH NEC 240.24 "LOCATION IN OR ON PREMISES". OVERCURRENT DEVICES (CIRCUIT BREAKERS) SHALL BE READILY ACCESSIBLE AND SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN ITS HIGHEST POSITION, IS NOT MORE THAN 6'-7" ABOVE THE FLOOR OR WORKING PLATFORM. FOR ALL PANELBOARDS THAT ARE NOT IN COMPLIANCE WITH THIS NEC ARTICLE BECAUSE OF THE MOUNTING HEIGHT OF THE PANEL DUE TO THE 11'-0" ELEVATION REQUIREMENT, THE CONTRACTOR SHALL PROVIDE A PERMANENT PLATFORM WITH STEPS THAT WILL ENSURE THAT NO CIRCUIT BREAKER IS HIGHER THAN THE 6'-7" NEC REQUIREMENT. COORDINATE EXACT ELEVATIONS WITH CIVIL/SITE ENGINEER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF ANY EQUIPMENT.
- 2 THE BOTTOM OF ALL CAMPSITE RV PEDESTAL-MOUNTED POWER OUTLET PANELS SHALL BE AT A MINIMUM ELEVATION OF 11'-0" ABOVE SEA LEVEL TO BOTTOM OF PEDESTAL MOUNTED RECEPTACLES. COORDINATE EXACT ELEVATIONS WITH CIVIL/SITE ENGINEER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF ANY EQUIPMENT. MATERIALS AND INSTALLATION OF ALL EQUIPMENT/DEVICES ASSOCIATED WITH THE RV POWER PEDESTAL AND ITS ASSOCIATED POWER CIRCUITRY, THAT SUPPLIES POWER TO THESE PIECES OF EQUIPMENT, SHALL STRICTLY ADHERE TO NEC "ARTICLE 551-RECREATIONAL VEHICLES AND RECREATIONAL VEHICLE PARKS". PROVIDE (1) 10'-0" GROUND ROD AND CONNECT TO PEDESTAL GROUND LUG AS SHOWN ON DETAILS.
- 3 PROVIDE 1" DIRECT-BURIED CONDUIT, PER DETAILS AND PANEL SCHEDULE, FROM EXISTING PANEL LP TO NEW ELECTRIC VEHICLE CHARGING STATION. CONNECT TO PANEL LP, CIRCUITS 24,26 AND 36,38. IN SAME TRENCH BUT SEPARATED, PROVIDE A 1" CONDUIT WITH A CAT-6A DATA CONNECTION.

### SITE UNDERGROUND UTILITIES AND VEGETATION COORDINATION NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COORDINATING ALL TRADES PRIOR TO ANY DISTURBANCE OF EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL FIELD COORDINATE ROUTING OF ALL UNDERGROUND WATER, WASTE AND ELECTRICAL FEEDERS WITH EXISTING AND NEW VEGETATION ELEMENTS TO PREVENT ADDITIONAL REMOVAL / RELOCATION OF VEGETATION TO INSTALL THESE UTILITIES. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON DRAWINGS HAVE BEEN COORDINATED IN DESIGN BUT ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO BE EXACT LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ALL NECESSARY LABOR AND MATERIALS IN THE BID TO PROVIDE FULLY FUNCTIONING UTILITY SYSTEMS AS SHOWN ON DRAWINGS.

### ENCLOSURE CONDUIT NOTE

ALL CONDUITS ENTERING/EXITING EQUIPMENT, ENCLOSURES AND RECEPTACLES SHALL BE BOTTOM FEED ONLY, TO KEEP WATER FROM BEING DIRECTLY ROUTED TO INTERNAL PARTS OF EQUIPMENT AND ENCLOSURES. CONTRACTOR SHALL NOT TOP FEED OR SIDE FEED ANY EQUIPMENT OR ENCLOSURES EXCEPT FOR EQUIPMENT/ENCLOSURES LOCATED INSIDE THE SHOWER HOUSE BUILDING. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CONFLICTS ARISE WITH THIS REQUIREMENT PRIOR TO INSTALLING CONDUITS AND CONDUCTORS.

### SITE CONDUIT ROUTING NOTE

COORDINATE ALL CONDUIT ROUTING PATHS WITH EXISTING/NEW BELOW GRADE UTILITIES PRIOR TO PERFORMING ANY TRENCHING. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUITS SHALL HAVE UNDERGROUND-LINE WARNING TAPE INSTALLED ABOVE THE CONDUIT. REFER TO SPECIFICATION 260553-IDENTIFICATION FOR ELECTRICAL SYSTEMS FOR MORE INFORMATION.

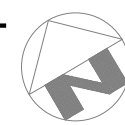
ALL CONDUIT ROUTING SHALL BE COORDINATED WITH ALL ELEMENTS OF THE LANDSCAPE DESIGN PRIOR TO ROUGH-IN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ROUTES AND METHODS OF ROUTING PRIOR TO PERFORMING WORK. CONTRACTOR SHALL COORDINATE ALL INVERTS AND ELEVATIONS OF UNDERGROUND CONDUITS WITH CIVIL/SITE ENGINEER PRIOR TO ROUGH-IN.

STEEL REINFORCING IS REQUIRED WHERE ANY FEEDER IN DUCTBANK IS ROUTED UNDER AREAS SUBJECT TO VEHICULAR TRAFFIC.

CONDUIT ROUTINGS SHOWN ARE FOR REFERENCE. ACTUAL ROUTING TO BE DETERMINED IN THE FIELD.

### 1 PARTIAL ELECTRICAL SITE PLAN - WEST

E-003 SCALE: 1" = 20'-0"



SCO ID#: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRENSWELL, NORTH CAROLINA

DRAWN D.J.H.  
CHECKED J.R.Q.  
PROJECT NO. 20061  
DATE 07/27/2025  
SHEET NAME PARTIAL ELECTRICAL SITE PLAN - WEST  
SHEET NO. E-003

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**FINCH**  
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REVISIONS

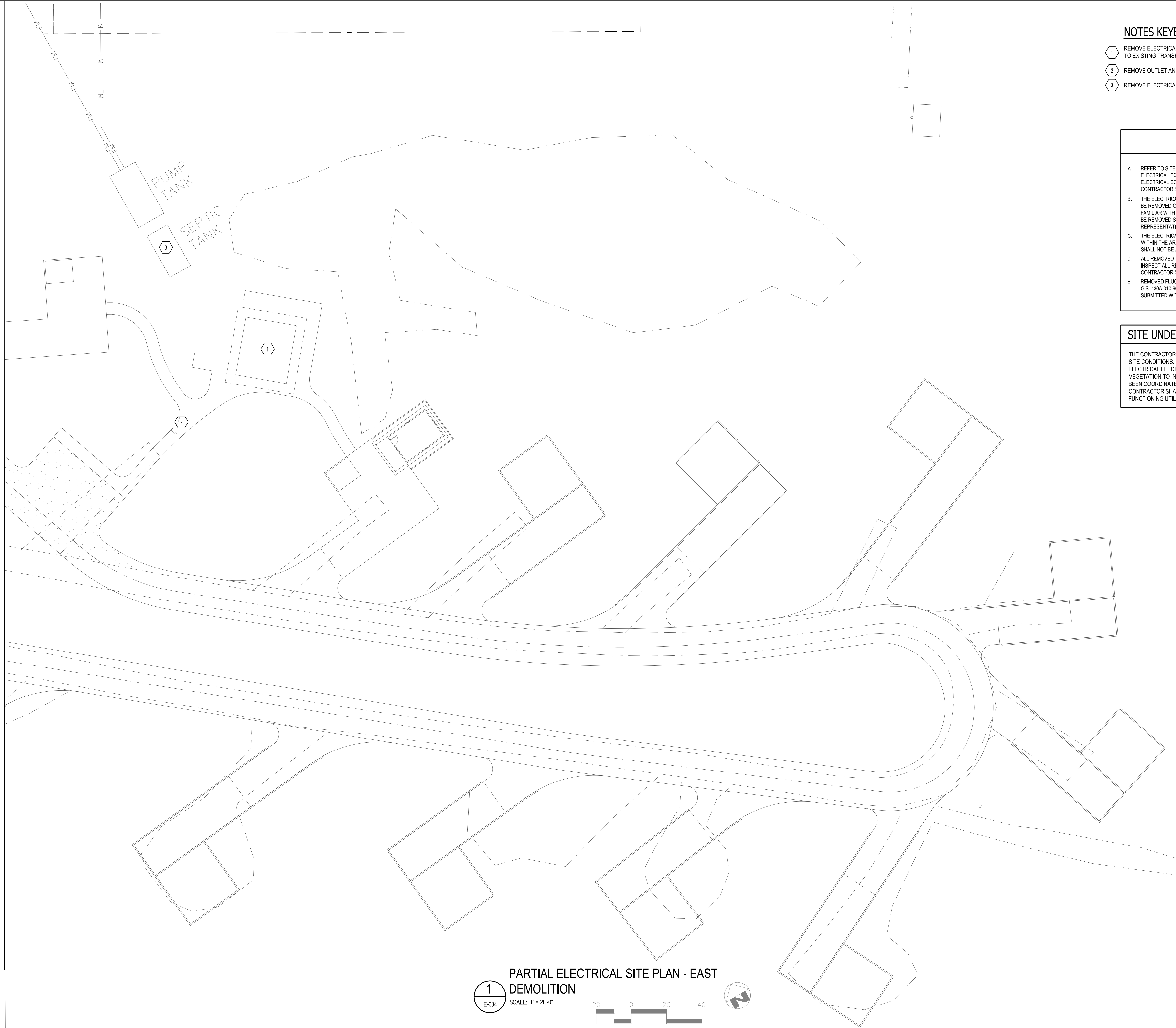
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CONSTRUCTION DOCUMENTS

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20-22411-02A



MATCHLINE WEST

MATCHLINE WEST



**PARTIAL ELECTRICAL SITE PLAN - EAST  
DEMOLITION**  
1  
E-004  
SCALE: 1" = 20'-0"  
20 0 20 40  
SCALE IN FEET

### NOTES KEYED TO SITE PLAN

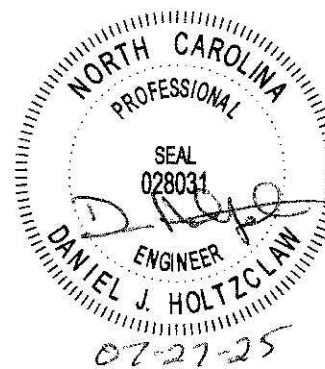
- 1 REMOVE ELECTRICAL EQUIPMENT AND DEVICES WITHIN AND ON THE EXTERIOR OF THE DEMOLISHED SHOWER HOUSE BACK TO EXISTING TRANSFORMER.
- 2 REMOVE OUTLET AND ASSOCIATED WIRE/CONDUIT BACK TO SOURCE.
- 3 REMOVE ELECTRICAL WIRE/CONDUIT ASSOCIATED WITH THE ABANDONED SEWER/SEPTIC SYSTEM BACK TO SOURCE.

### GENERAL DEMOLITION NOTES

- REFER TO SITE/CIVIL DRAWINGS FOR THE FULL EXTENT OF THE SCOPE OF DEMOLITION. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE ELECTRICAL, HVAC, PLUMBING AND FIRE PROTECTION DRAWINGS. ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THE ARCHITECTURAL DEMOLITION SCOPE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FULLY COMPLY WITH VARIOUS REQUIREMENTS DEFINED BY THESE NOTES.
- THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. ELECTRICAL CONTRACTORS SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BIDS TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND OR CEILINGS TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE OR LAST UPSTREAM DEVICE SCHEDULED TO REMAIN. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE.
- ALL REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL RETURNED ITEMS PRIOR TO PLACEMENT IN IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR. THE CONTRACTOR SHALL GIVE THE OWNER FIRST RIGHT OF REFUSAL OF DEMOLITION EQUIPMENT.
- REMOVED FLUORESCENT LAMPS AND BALLAST SHALL BE DISPOSED OF IN COMPLIANCE WITH NORTH CAROLINA GENERAL STATUTES G.S. 130A-310.60. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL ITEMS DISPOSED OF. MANIFEST SHALL BE SUBMITTED WITH ALL APPLICABLE SIGN-OFFS PRIOR TO APPLICATION FOR FINAL PAYMENT.

### SITE UNDERGROUND UTILITIES AND VEGETATION COORDINATION NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COORDINATING ALL TRADES PRIOR TO ANY DISTURBANCE OF EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL FIELD COORDINATE ROUTING OF ALL UNDERGROUND WATER, WASTE AND ELECTRICAL FEEDERS WITH EXISTING AND NEW VEGETATION ELEMENTS TO PREVENT ADDITIONAL REMOVAL / RELOCATION OF VEGETATION TO INSTALL THESE UTILITIES. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON DRAWINGS HAVE BEEN COORDINATED IN DESIGN BUT ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO BE EXACT LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ALL NECESSARY LABOR AND MATERIALS IN THE BID TO PROVIDE FULLY FUNCTIONING UTILITY SYSTEMS AS SHOWN ON DRAWINGS.



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PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
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REVISIONS
PROJECT STATUS CONSTRUCTION DOCUMENTS
OWNER ID 20-22411-02A

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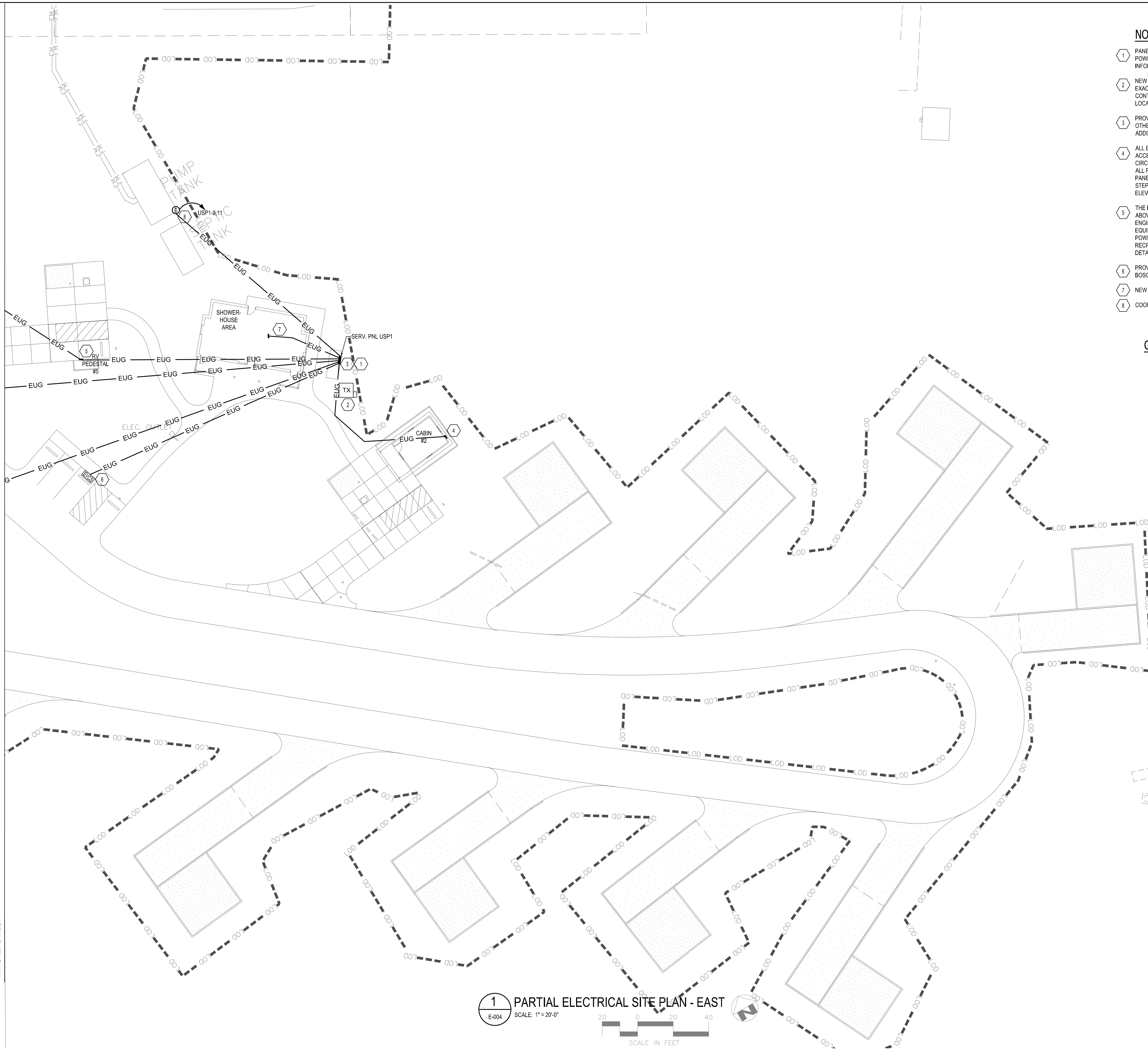
**FINCH**  
& ASSOCIATES  
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DRAWN	D.J.H.
CHECKED	J.R.Q.
PROJECT NO.	20061
DATE	07/27/2025
SHEET NAME	ELECTRICAL SITE PLAN - EAST DEMOLITION
SHEET NO.	E-004D



MATCHLINE WEST

MATCHLINE WEST



1 PARTIAL ELECTRICAL SITE PLAN - EAST  
E-004 SCALE: 1" = 20'-0"

### NOTES KEYED TO SITE PLAN

- 1 PANELS TO BE MOUNTED TO UNISTRUT RACK PER DETAILS. COORDINATE SIZE OF CT AND METER ENCLOSURE WITH LOCAL POWER COMPANY PRIOR TO INSTALLATION OF STRUCTURAL MOUNTING SUPPORT. REFER TO DETAILS FOR MORE INFORMATION.
- 2 NEW PROPOSED ELECTRICAL UTILITY SITE TRANSFORMER LOCATION. CONTRACTOR TO COORDINATE THE ORIENTATION AND EXACT LOCATION OF THE NEW SITE PAD MOUNTED UTILITY TRANSFORMER WITH THE LOCAL POWER COMPANY AND GENERAL CONTRACTOR PRIOR TO INSTALLATION OF SECONDARY SERVICE DUCTBANK. REFER TO SITE/CIVIL PLANS FOR EXACT LOCATION OF TRANSFORMER.
- 3 PROVIDE AND INSTALL THE NEW ELECTRICAL SERVICE GROUND GRID. COORDINATE EXACT LOCATION IN FIELD WITH ALL OTHER UTILITIES IN THIS AREA PRIOR TO INSTALLATION. REFER TO GROUNDING DETAILS AND THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 4 ALL ELECTRICAL EXTERIOR MOUNTED PANELBOARD OVERCURRENT DEVICES (CIRCUIT BREAKERS) SHALL BE READILY ACCESSIBLE AND SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN ITS HIGHEST POSITION, IS NOT MORE THAN 6'-7" ABOVE THE FLOOR OR WORKING PLATFORM. FOR ALL PANELBOARDS THAT ARE NOT IN COMPLIANCE WITH THIS NEC ARTICLE BECAUSE OF THE MOUNTING HEIGHT OF THE PANEL DUE TO THE 11'-0" ELEVATION REQUIREMENT, THE CONTRACTOR SHALL PROVIDE A PERMANENT PLATFORM WITH STEPS THAT WILL ENSURE THAT NO CIRCUIT BREAKER IS HIGHER THAN THE 6'-7" NEC REQUIREMENT. COORDINATE EXACT ELEVATIONS WITH CIVIL/SITE ENGINEER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF ANY EQUIPMENT.
- 5 THE BOTTOM OF ALL CAMPSITE RV PEDESTAL-MOUNTED POWER OUTLET PANELS SHALL BE AT A MINIMUM ELEVATION OF 11'-0" ABOVE SEA LEVEL TO BOTTOM OF PEDESTAL MOUNTED RECEPTACLES. COORDINATE EXACT ELEVATIONS WITH CIVIL/SITE ENGINEER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN OF ANY EQUIPMENT. MATERIALS AND INSTALLATION OF ALL EQUIPMENT/DEVICES ASSOCIATED WITH THE RV POWER PEDESTAL AND ITS ASSOCIATED POWER CIRCUITRY, THAT SUPPLIES POWER TO THESE PIECES OF EQUIPMENT, SHALL STRICTLY ADHERE TO NEC "ARTICLE 551-RECREATIONAL VEHICLES AND RECREATIONAL VEHICLE PARKS". PROVIDE (1) 10'-0" GROUND ROD AND CONNECT TO PEDESTAL GROUND LUG AS SHOWN ON DETAILS.
- 6 PROVIDE DUAL-PORT ELECTRIC VEHICLE CHARGING STATION (EVCS) CHARGEPOINT CT4021 OR APPROVED EQUAL FROM BOSCH, LEGRAND OR EATON. REFER TO PANEL SCHEDULE FOR WIRE AND CONDUIT SIZE.
- 7 NEW FEED TO SHOWERHOUSE.
- 8 COORDINATE EXACT LOCATION OF SEPTIC TANK CONTROL PANEL WITH 'U' SERIES DRAWINGS.

### GENERAL NOTES:

A. UNLESS NOTED OTHERWISE, ALL NEW ELECTRICAL EQUIPMENT (PANELS, RV PEDESTALS, TRANSFORMERS, ETC.) SHALL BE AT A MINIMUM ELEVATION OF 11'-0" ABOVE SEA LEVEL TO BOTTOM OF PANEL. VERIFY WITH CIVIL/SITE ENGINEER AND GENERAL CONTRACTOR FOR EXACT MOUNTING HEIGHT REQUIRED ABOVE GRADE TO MEET THIS MINIMUM REQUIREMENT. THIS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH NEC 240.24 "LOCATION IN OR ON PREMISES".

### SITE UNDERGROUND UTILITIES AND VEGETATION COORDINATION NOTE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULLY COORDINATING ALL TRADES PRIOR TO ANY DISTURBANCE OF EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL FIELD COORDINATE ROUTINGS OF ALL UNDERGROUND WATER, WASTE AND ELECTRICAL FEEDERS WITH EXISTING AND NEW VEGETATION ELEMENTS TO PREVENT ADDITIONAL REMOVAL / RELOCATION OF VEGETATION TO INSTALL THESE UTILITIES. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON DRAWINGS HAVE BEEN COORDINATED IN DESIGN BUT ARE DIAGRAMMATIC IN NATURE AND NOT INTENDED TO BE EXACT LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING ALL NECESSARY LABOR AND MATERIALS IN THE BID TO PROVIDE FULLY FUNCTIONING UTILITY SYSTEMS AS SHOWN ON DRAWINGS.

### ENCLOSURE CONDUIT NOTE

ALL CONDUITS ENTERING/EXITING EQUIPMENT, ENCLOSURES AND RECEPTACLES SHALL BE BOTTOM FEED ONLY, TO KEEP WATER FROM BEING DIRECTLY ROUTED TO INTERNAL PARTS OF EQUIPMENT AND ENCLOSURES. CONTRACTOR SHALL NOT TOP FEED OR SIDE FEED ANY EQUIPMENT OR ENCLOSURES EXCEPT FOR EQUIPMENT/ENCLOSURES LOCATED INSIDE THE SHOWER HOUSE BUILDING. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CONFLICTS ARISE WITH THIS REQUIREMENT PRIOR TO INSTALLING CONDUITS AND CONDUCTORS.

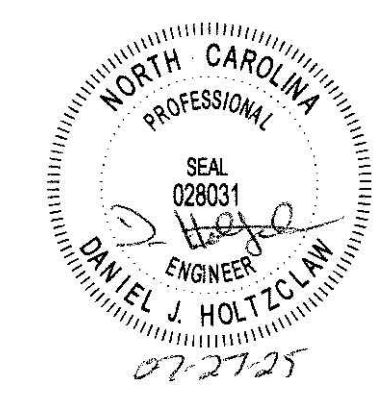
### SITE CONDUIT ROUTING NOTE

COORDINATE ALL CONDUIT ROUTING PATHS WITH EXISTING/NEW BELOW GRADE UTILITIES PRIOR TO PERFORMING ANY TRENCHING. ALL UNDERGROUND FEEDERS AND BRANCH CIRCUITS SHALL HAVE UNDERGROUND-LINE WARNING TAPE INSTALLED ABOVE THE CONDUIT. REFER TO SPECIFICATION 260553-IDENTIFICATION FOR ELECTRICAL SYSTEMS FOR MORE INFORMATION.

ALL CONDUIT ROUTING SHALL BE COORDINATED WITH ALL ELEMENTS OF THE LANDSCAPE DESIGN PRIOR TO ROUGH-IN. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL ROUTES AND METHODS OF ROUTING PRIOR TO PERFORMING WORK. CONTRACTOR SHALL COORDINATE ALL INVERTS AND ELEVATIONS OF UNDERGROUND CONDUITS WITH CIVIL/SITE ENGINEER PRIOR TO ROUGH-IN.

STEEL REINFORCING IS REQUIRED WHERE ANY FEEDER IN DUCTBANK IS ROUTED UNDER AREAS SUBJECT TO VEHICULAR TRAFFIC.

CONDUIT ROUTINGS SHOWN ARE FOR REFERENCE. ACTUAL ROUTING TO BE DETERMINED IN THE FIELD.



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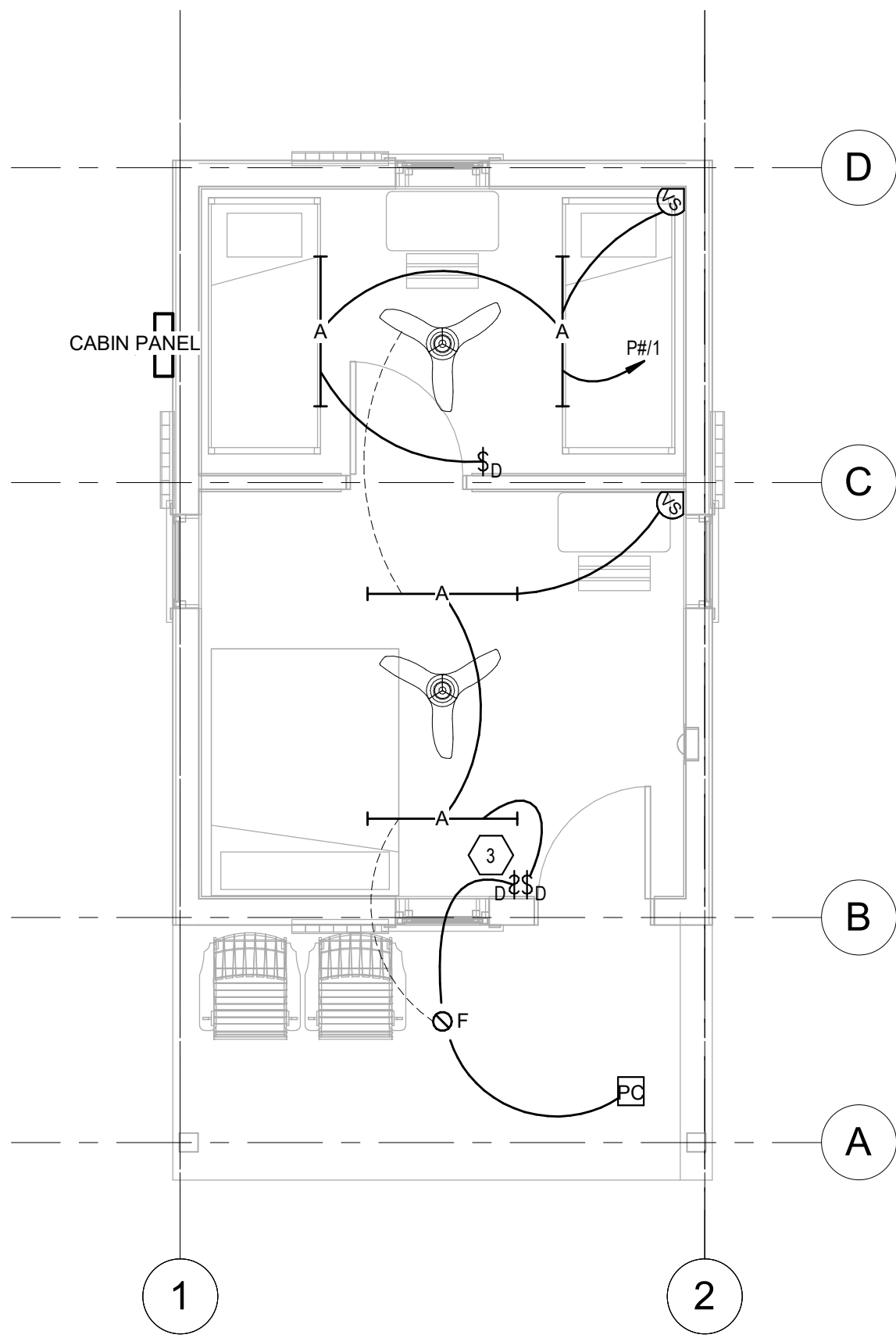
PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
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CRENSWELL, NORTH CAROLINA

DRAWN	D.J.H.
CHECKED	J.R.Q.
PROJECT NO.	20061
DATE	07/27/2025
SHEET NAME	PARTIAL ELECTRICAL SITE PLAN - WEST
SHEET NO.	E-004

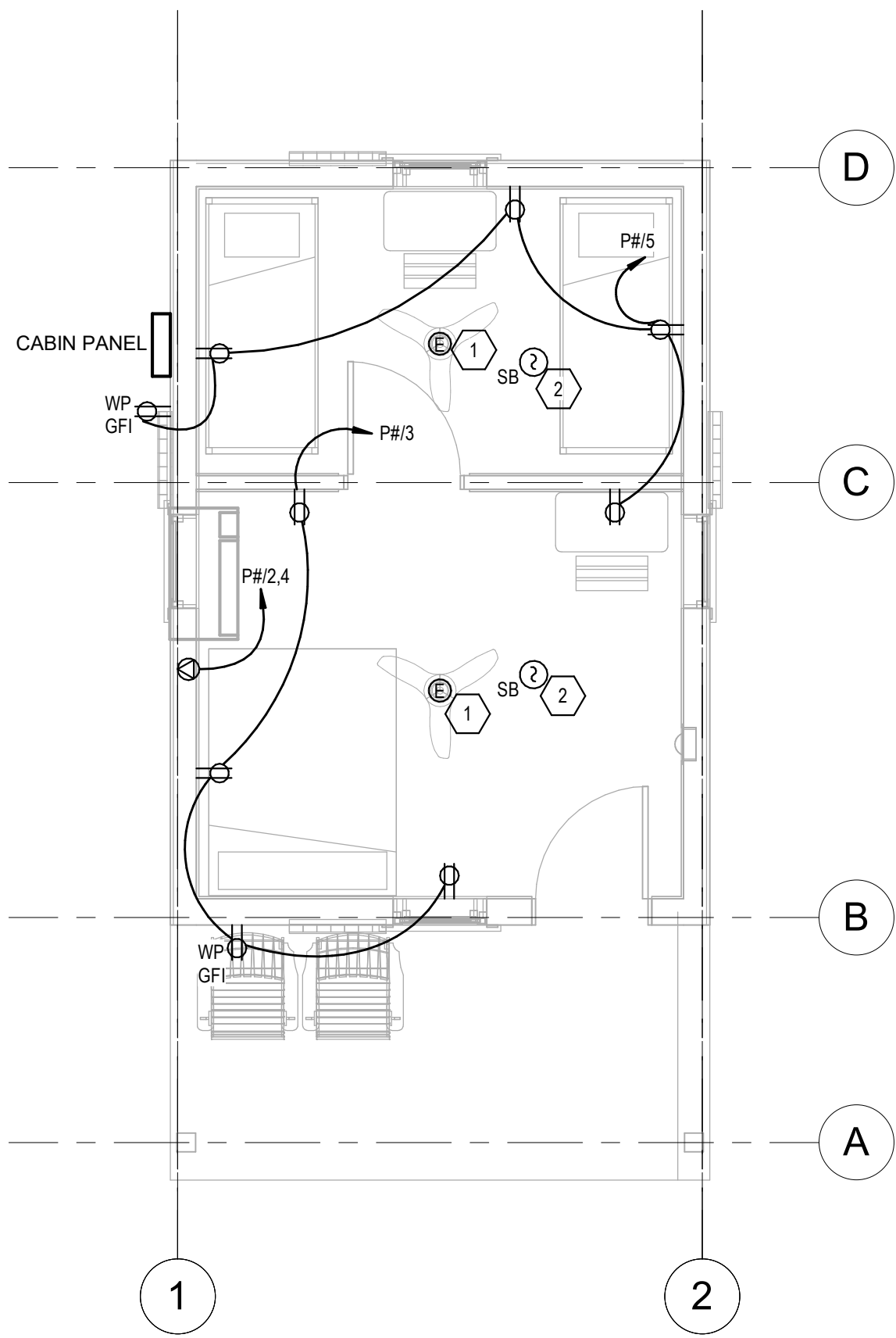
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1 CABIN FLOOR PLAN - LIGHTING  
EC-101 SCALE: 1/4" = 1'-0"



2 CABIN FLOOR PLAN - POWER  
EC-101 SCALE: 1/4" = 1'-0"

#### CONDUIT ROUTING NOTE

NO CONDUIT SHALL BE EXPOSED WITHIN THIS BUILDING WITH THE EXCEPTION THAT EXPOSED CONDUIT IS ALLOWED ON BOTTOM OF BEAMS TO CONNECT TO LIGHT FIXTURES.

#### NOTES KEYED TO PLANS

- 1 PROVIDE NEC APPROVED CEILING FAN BOX. MOUNT ROOF LEVEL ON ROOF RIDGE BEAM. MECHANICAL TO PROVIDE WALL SWITCH TO CONTROL FAN. COORDINATE WITH MECHANICAL FOR LOCATION OF SWITCH. PROVIDE POWER FOR FAN FROM UNSWITCHED ROOM LIGHTING CIRCUIT. PROVIDE CONDUIT AND WIRE TO MAKE CONNECTION.
- 2 NEW SMOKE ALARM TO BE HARD WIRED FROM NEW PANEL (CIRCUIT #6) AND SHALL ALSO HAVE BACK-UP BATTERIES. LOCATE SMOKE DETECTOR 36" (IN THE HORIZONTAL PATH) FROM THE TIP OF THE ROOM CEILING FAN. THE SMOKE ALARM MUST ALSO BE WITHIN 36" HORIZONTALLY OF THE CEILING PEAK AND NOT CLOSER THAN 4" VERTICALLY FROM THE CEILING PEAK.
- 3 CONNECT LIGHT SWITCH IN SERIES WITH THE PHOTOCELL SO PHOTOCELL TURNS LIGHT OFF REGARDLESS OF SWITCH POSITION.

#### ARC-FAULT INTERRUPTER NOTE TO CONTRACTOR

PROVIDE ARC FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTION AT FIRST RECEPTACLE IN THE CIRCUIT AS REQUIRED PER NEC (2014) 210.12(A)(5).

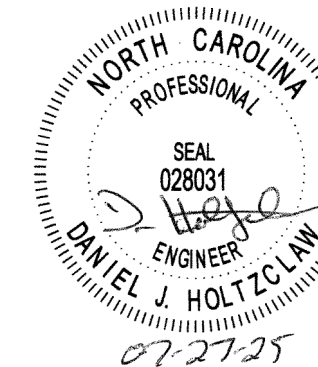
#### EQUIPMENT/FIXTURE/DEVICE COORDINATION NOTE

ALL LOCATIONS AND MOUNTING HEIGHTS OF WALL MOUNTED DEVICES, LIGHT SWITCHES, LIGHT FIXTURES (INTERIOR & EXTERIOR), DISCONNECT SAFETY SWITCHES, MOTOR RATED SWITCHES, PANELBOARDS, ETC... SHALL BE CLOSELY COORDINATED WITH THE ARCHITECTURAL PLANS AND SHALL ALSO BE APPROVED BY THE OWNERS REPRESENTATIVE AND/OR ARCHITECT PRIOR TO ROUGH-IN. MOUNTING HEIGHTS OF LIGHT FIXTURES, RECEPTACLES, LIGHT SWITCHES, DISCONNECT SAFETY SWITCHES, PANELBOARDS, MOTOR RATED SWITCHES, ETC... MAY VARY DEPENDING ON THE CASEWORK, DOOR, WINDOW, CEILING, ETC... INFORMATION. CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING ALL OTHER PROJECT PLANS (PARTICULARLY THE ARCHITECTURAL AND STRUCTURAL PLANS), PROPERLY COORDINATING ALL EQUIPMENT LOCATIONS/MOUNTING HEIGHTS AND HAVING THE OWNERS REPRESENTATIVE AND/OR ARCHITECT VERIFY THE LOCATIONS SO THAT THE POWER/LIGHTING CONDUITS, DEVICE BACK BOXES, JUNCTION BOXES, PULL BOXES, ETC... ARE PROPERLY ROUGHED-IN TO AVOID ANY POTENTIAL CONFLICT OF OTHER TRADES.

\*\*ANY DEVICES THAT ARE NOT LOCATED IN THE CORRECT LOCATIONS WILL BE REMOVED AND RELOCATED AT THE CONTRACTORS EXPENSE. ANY WALLS OR CEILINGS THAT ARE REQUIRED TO BE PATCHED DUE TO THE INCORRECT LOCATION OF DEVICES WILL ALSO BE PATCHED AND REFINISHED AT THE CONTRACTORS EXPENSE IF COORDINATION OF EQUIPMENT/DEVICES IS NOT PERFORMED WITH THE OWNERS REPRESENTATIVE AND/OR ARCHITECT PRIOR TO ROUGH-IN.



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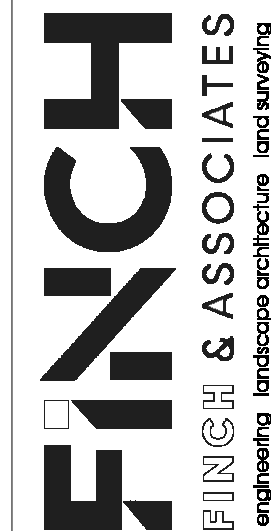


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PROJECT STATUS  
CONSTRUCTION DOCUMENTS

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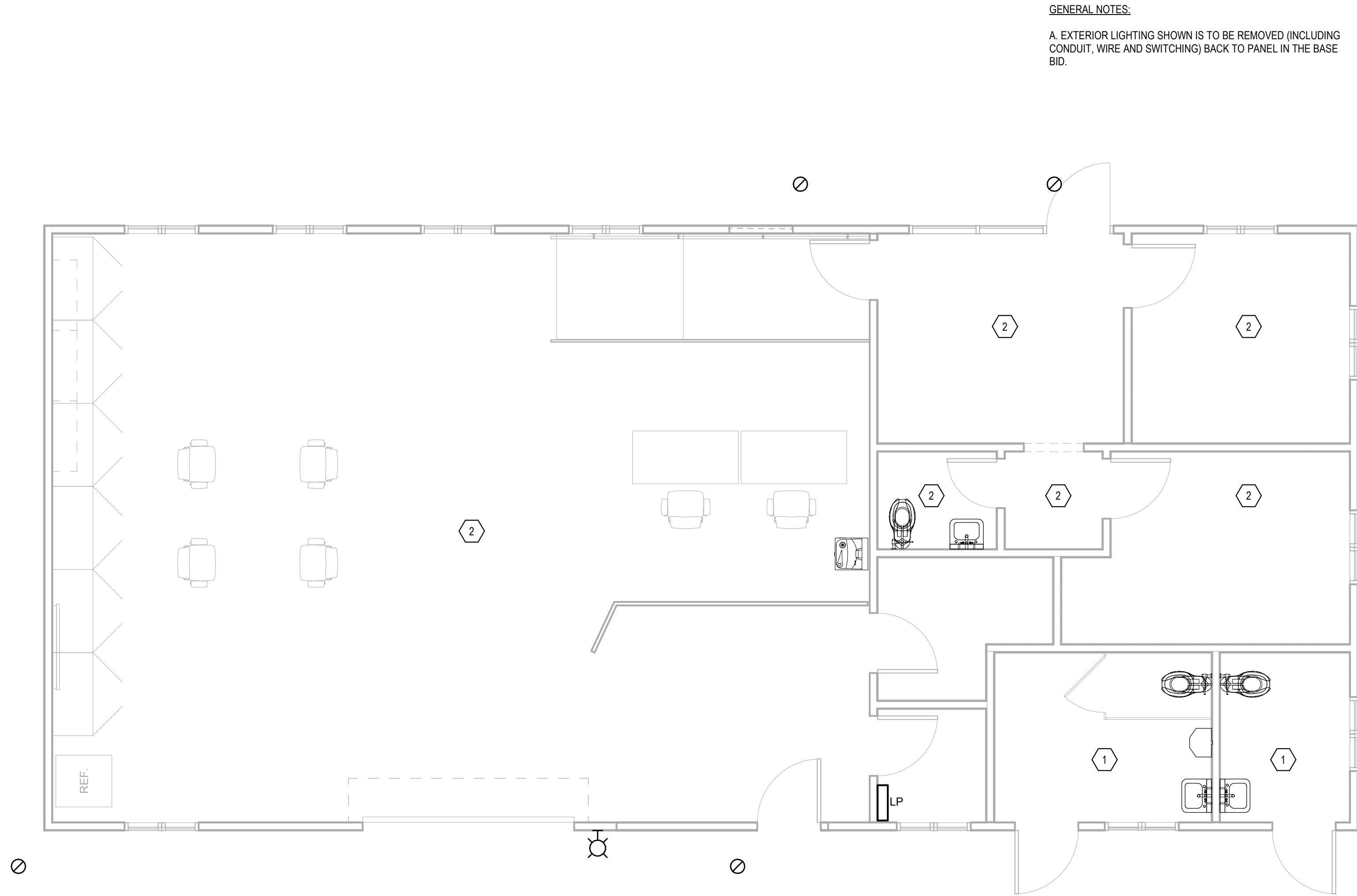
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SCO ID#: 20-22411-02A Construction Documents For Bid

PETTIGREW STATE PARK  
CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN DJH  
CHECKED JRQ  
PROJECT NO. 20061  
DATE 07/27/2025  
SHEET NAME CABIN LIGHTING & POWER PLANS  
SHEET NO. EC-101

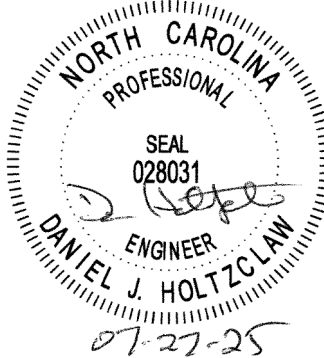


**1** PARK OFFICE FLOOR PLAN - LIGHTING DEMO  
EO-101D SCALE: 1/4" = 1'-0"

**GENERAL NOTES:**  
A. EXTERIOR LIGHTING SHOWN IS TO BE REMOVED (INCLUDING CONDUIT, WIRE AND SWITCHING) BACK TO PANEL IN THE BASE BID.

**KEYED NOTES:**  
**1** ALTERNATE 1: REMOVE EXISTING LIGHTS AND SWITCHING IN TOILET ROOM. PRESERVE CIRCUITING FOR REUSE IN NEW WORK PHASE.  
**2** ALTERNATE 2: REMOVE EXISTING LIGHTS AND SWITCHING IN THIS AREA BACK TO SOURCE PANEL 'LP'.

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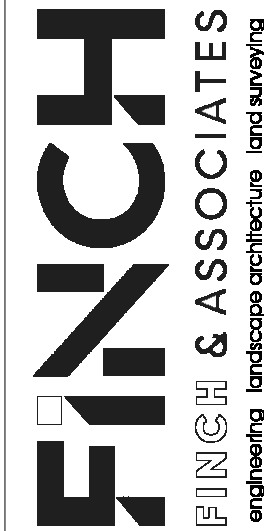
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CHECKED J.R.Q.  
PROJECT NO. 20061  
DATE 07/27/2025  
SHEET NAME OFFICE LIGHTING PLAN - DEMO  
SHEET NO. EO-101D

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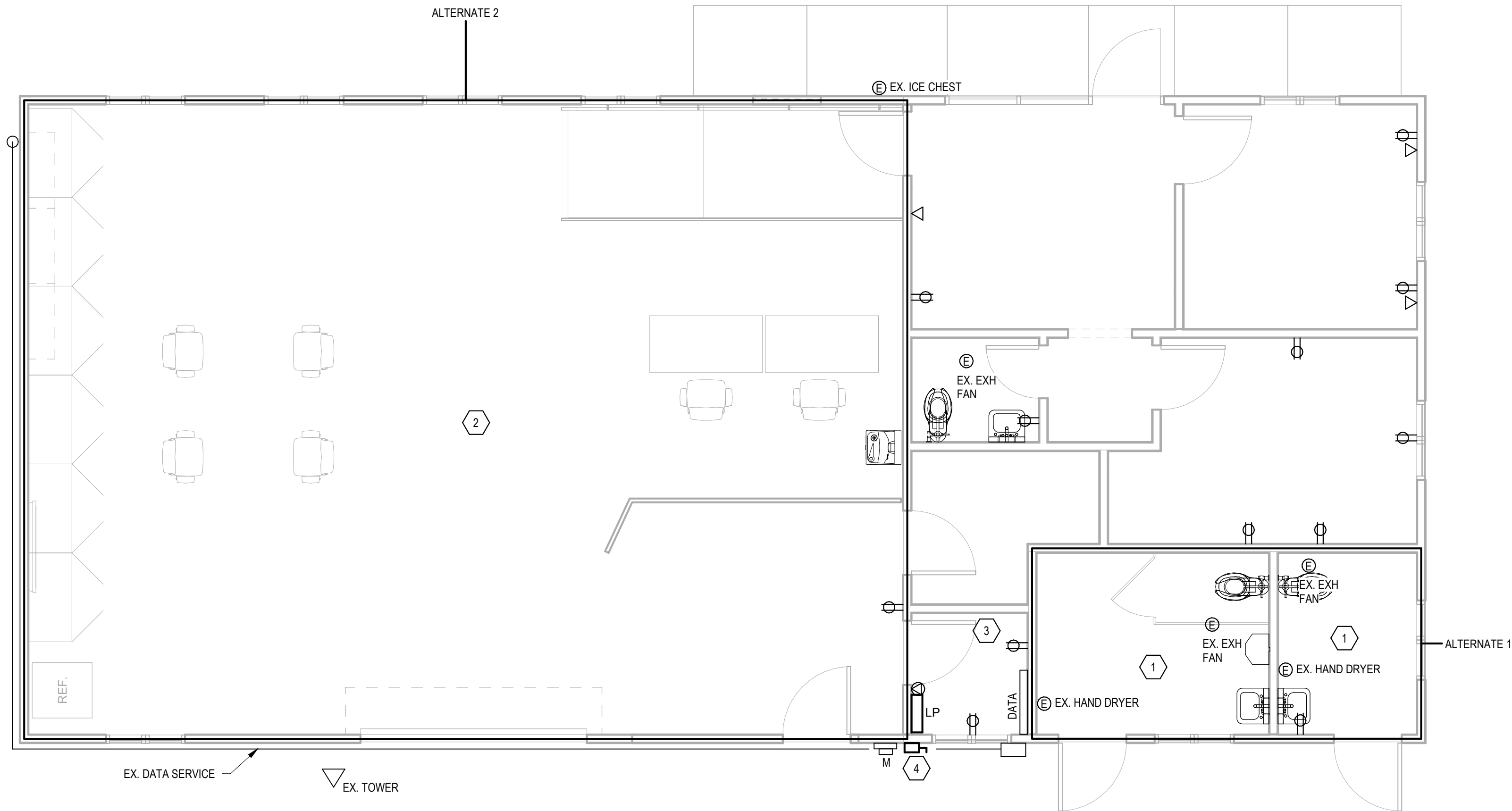
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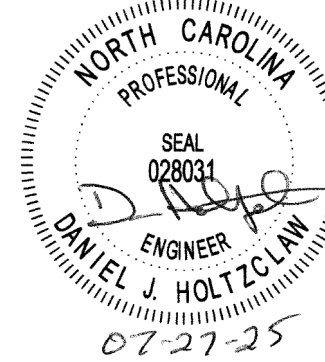






1 PARK OFFICE FLOOR PLAN - POWER DEMO  
EO-201D SCALE: 1/4" = 1'-0"

- KEYED NOTES:
- 1 ALTERNATE 1: REMOVE EXISTING RECEPTACLES AND POWER CONNECTIONS (CONDUIT AND WIRE) IN TOILET ROOM. PRESERVE CIRCUITING FOR REUSE IN NEW WORK PHASE.
  - 2 ALTERNATE 2: REMOVE EXISTING RECEPTACLES AND POWER CONNECTIONS (CONDUIT AND WIRE) INCLUDING SURFACE CONDUIT IN THIS AREA BACK TO SOURCE PANEL LP. REMOVE SWITCH AND CIRCUIT FOR HVAC EQUIPMENT SHOWN TO BE REMOVED ON SHEET MO-101 BACK TO SOURCE PANEL.
  - 3 ALTERNATE 1: DISCONNECT EXISTING WATER HEATER AND RECONNECT AS INDICATED ON NEW WORK PLANS. REFER TO SHEET EO-201.
  - 4 REMOVE DISCONNECT SWITCH AND CIRCUIT ASSOCIATED WITH DEMO'ED HP-1.



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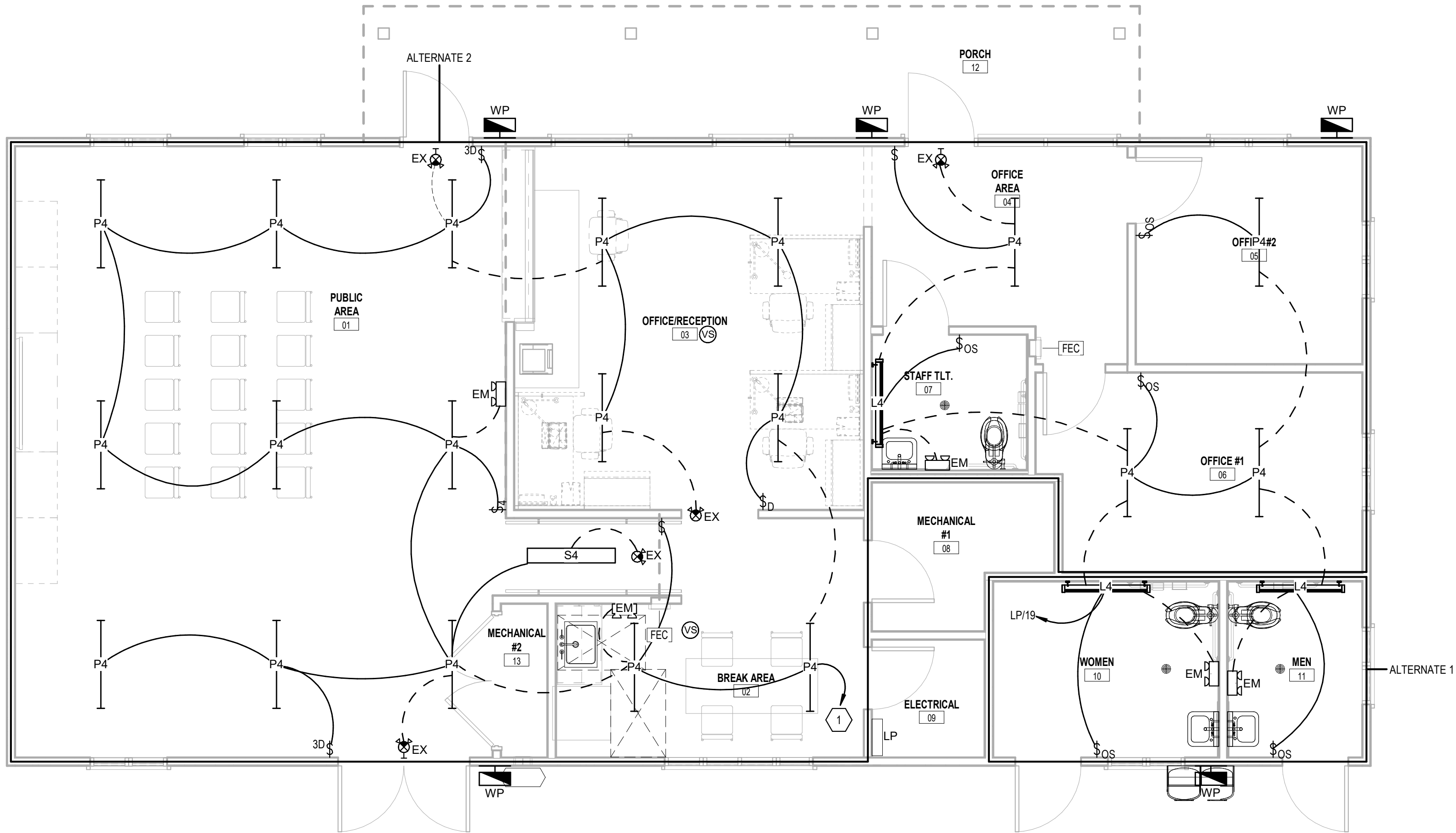
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CAMPGROUND AND OFFICE IMPROVEMENTS  
2252 LAKE SHORE ROAD  
CRESWELL, NORTH CAROLINA

DRAWN	DJH
CHECKED	JRQ
PROJECT NO.	20061
DATE	07/27/2025
SHEET NAME	OFFICE POWER PLAN - DEMO
SHEET NO.	EO-201D

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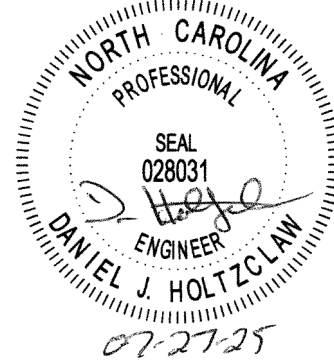




1 PARK OFFICE FLOOR PLAN - LIGHTING ALTERNATE 1 & 2  
EO-101 SCALE: 1/4" = 1'-0"

KEYED NOTES:  
1 CONNECT NEW LIGHTS AND SWITCHING TO EXISTING CIRCUIT FROM DEMOLITION PHASE.

GENERAL NOTES:  
A. CONNECT NEW EXTERIOR LIGHTS TO EXISTING EXTERIOR LIGHT CIRCUIT, LP4.



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SHEET NAME OFFICE LIGHTING PLAN - NEW  
SHEET NO. EO-101

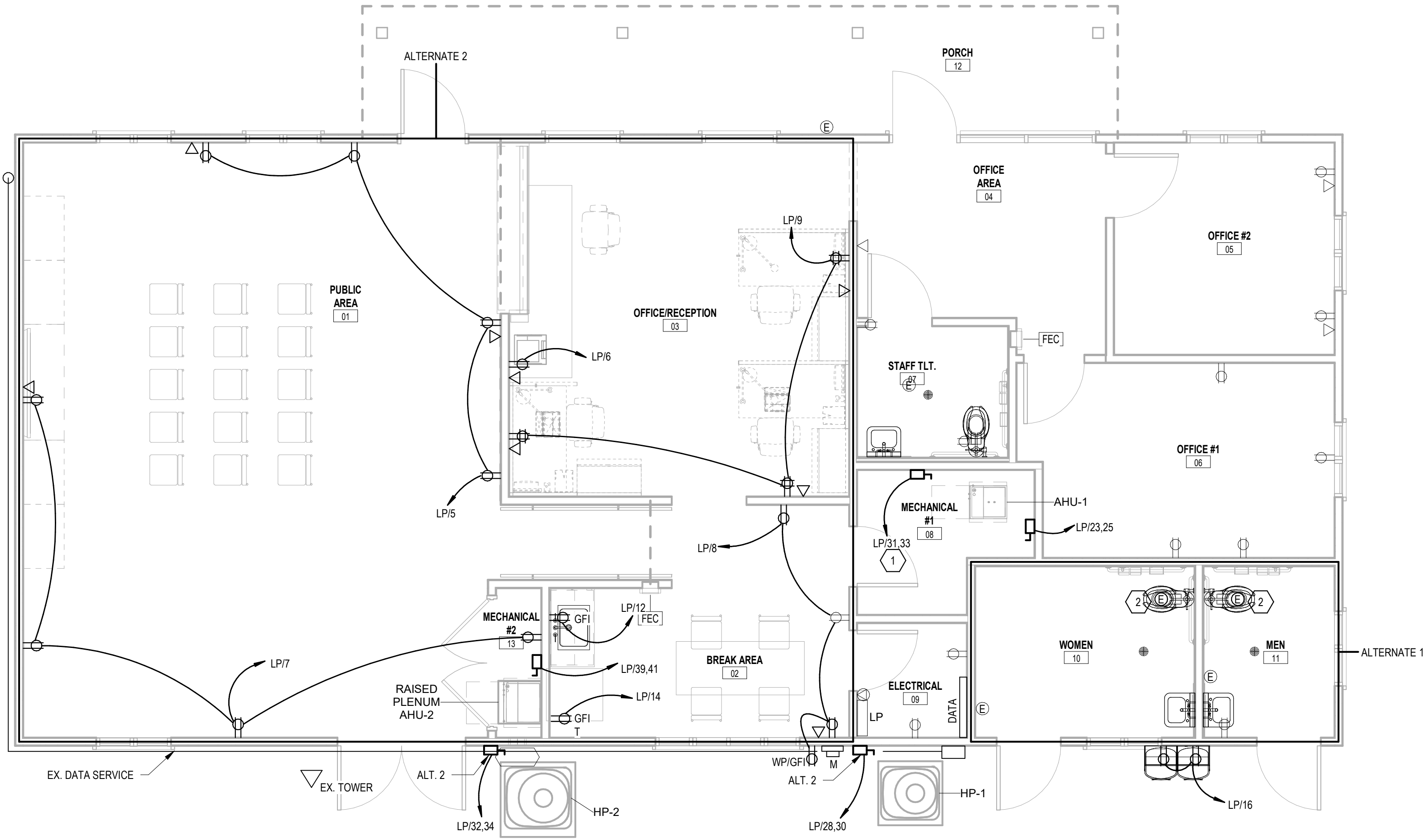
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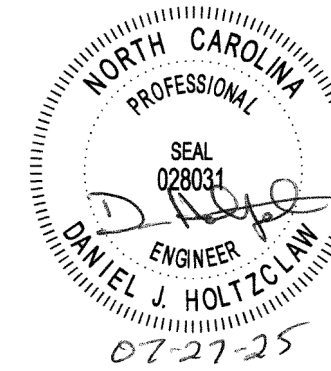
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- KEYED NOTES:
- 1 ALTERNATE 1: CONNECT NEW WATER HEATER TO CIRCUIT FROM DEMO'D WATER HEATER. EXTEND CIRCUIT AS NECESSARY. REFER TO SHEET EO-201D.
  - 2 ALTERNATE 1: CONNECT NEW EXHAUST FAN TO ROOM LIGHT CIRCUIT AND SWITCH.

1 PARK OFFICE FLOOR PLAN - POWER ALTERNATE 1 & 2  
EO-201 SCALE: 1/4" = 1'-0"



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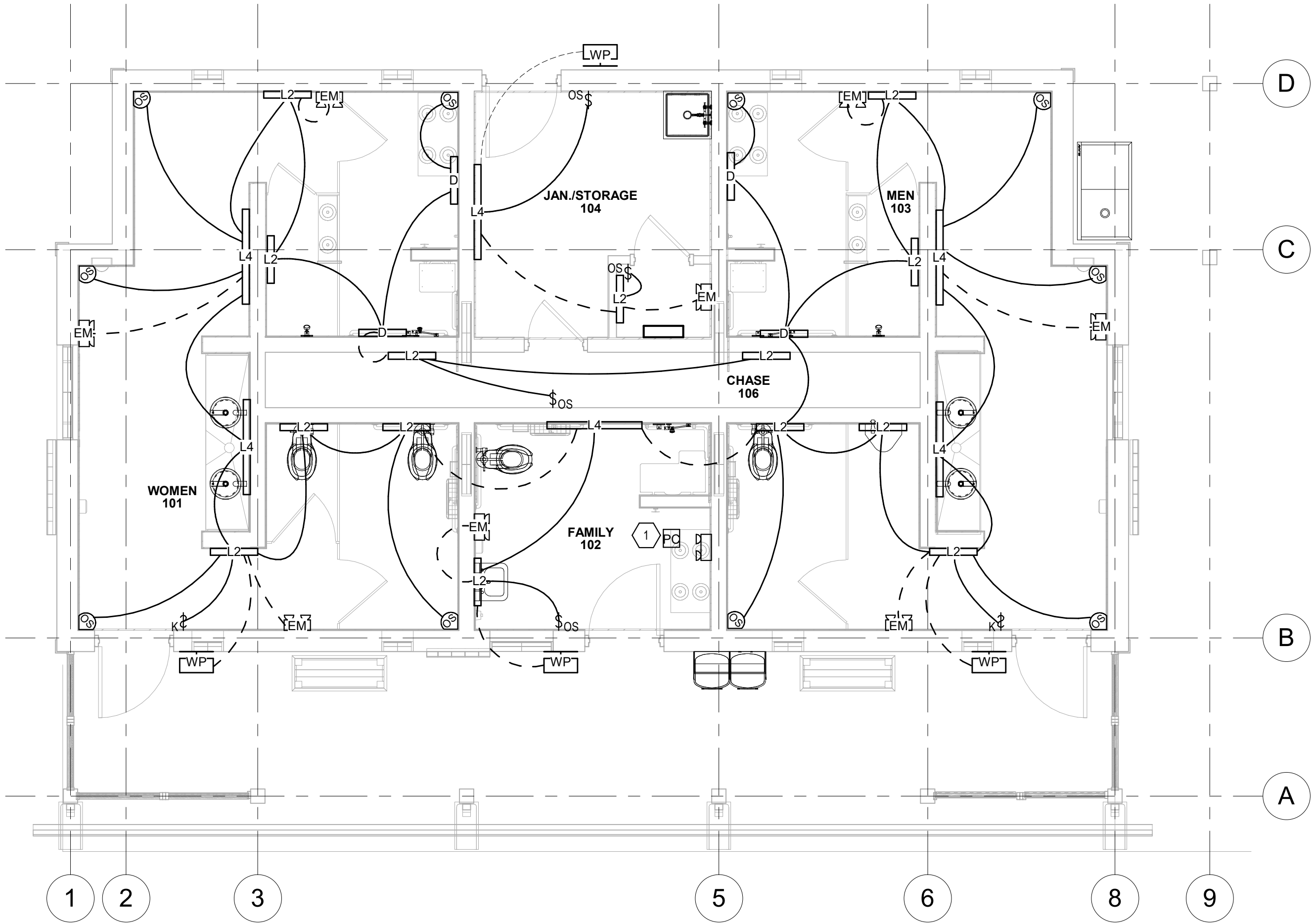
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SHEET NO.  
EO-201





1 SHOWER HOUSE FLOOR PLAN - LIGHTING  
ES-101 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

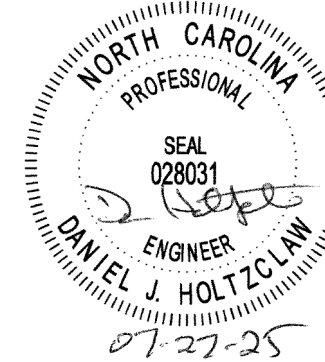
- A. LIGHTS IN TOILET AND SHOWER AREAS ARE CONTROLLED BY A PROGRAMMABLE TIME CLOCK  
B. EXTERIOR LIGHTS ARE CONTROLLED THROUGH THE TIME CLOCK AND PHOTOCELL WITH AN UNSWITCHED HOT LEG RUN TO THE BATTERY BACKUP.

KEYED NOTES:

- 1 WEATHERPROOF PHOTOCELL MOUNTED AT PEAK OF ROOF FOR EXTERIOR LIGHTING.



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PROJECT NO. 20061  
DATE 07/27/2025  
SHEET NAME SHOWER HOUSE LIGHTING PLAN  
SHEET NO. ES-101

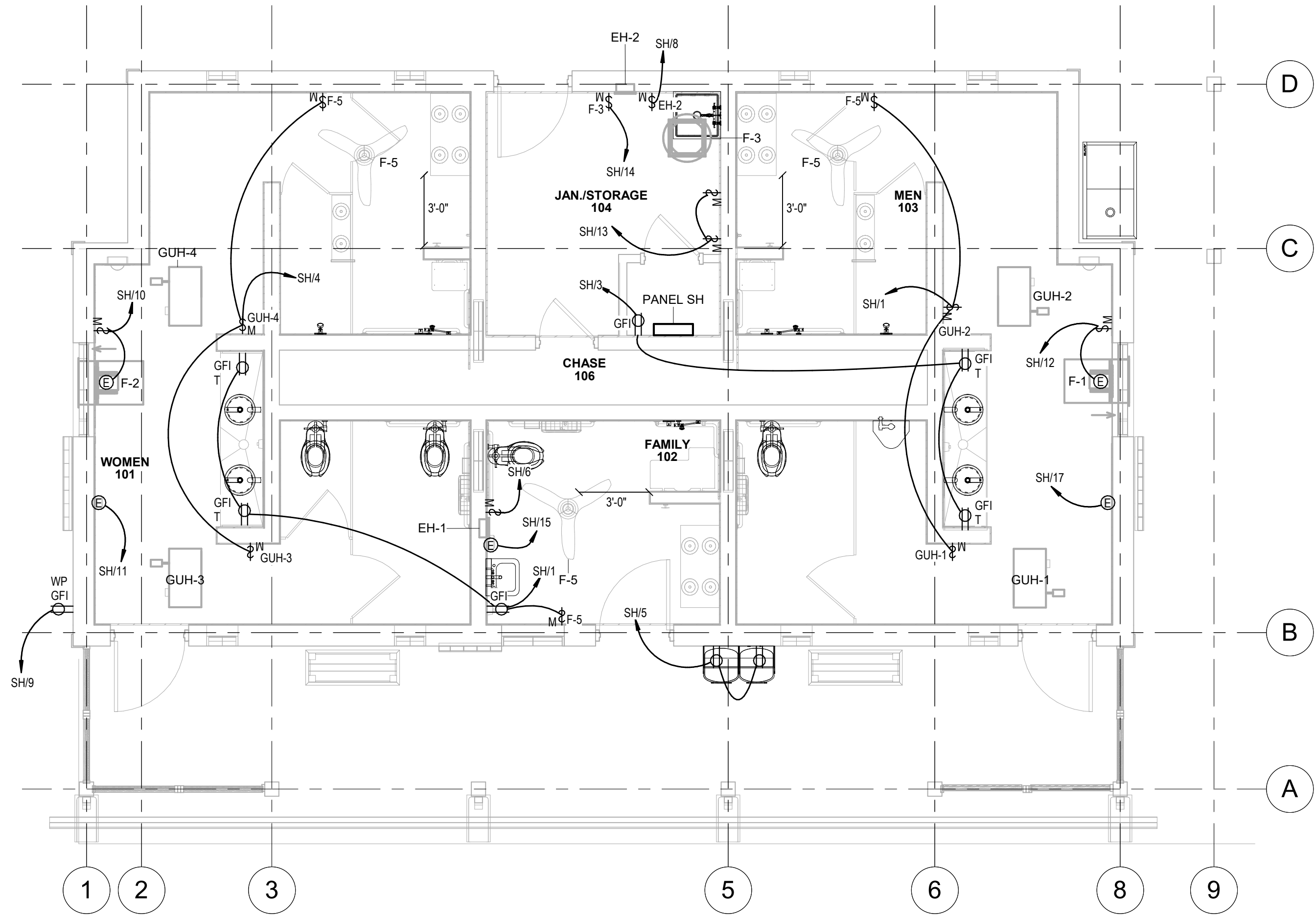
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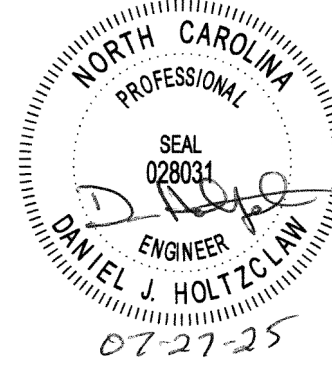
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1 SHOWER HOUSE FLOOR PLAN - POWER  
ES-201 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. GAS PIPING MUST BE BONDED PER THE NORTH CAROLINA PLUMBING CODE SECTION 310.1 TO A CONNECTION POINT MENTIONED IN NEC 250.104(B).  
B. ALL DISCONNECTS/CONTROLLERS SHOWN FOR HVAC EQUIPMENT ARE PROVIDE BY MECHANICAL. COORDINATE WITH MECHANICAL FOR LOCATION AND CONNECTION REQUIREMENTS.



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2252 LAKE SHORE ROAD  
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CHECKED	JRQ
PROJECT NO.	20061
DATE	07/27/2025
SHEET NAME	SHOWER HOUSE POWER PLAN
SHEET NO.	ES-201

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PANEL "USP1"																										
CT	DESCRIPTION	LIGHT	RECP	MOTOR	HEAT	OTHER	C	EGC	N	W	CB	PHASE	CB	W	N	EGC	C	OTHER	HEAT	MOTOR	RECP	LIGHT	DESCRIPTION	CT		
1	PANEL "SH"	0	955	2750	3088	800						A						150	0	1368	720	145	CABIN PANEL P2	2		
3		862	540	2600	3388	0						B						0	0	1368	900	0		4		
5	RV SITE PEDESTAL #1 & #2	--	--	--	--	10800						A						14400	--	--	--	--	RV SITE PEDESTAL #3, #4 & #5	6		
9	PUMP STATION	--	--	960	--	--						B						14400	--	--	--	--	CABIN PANEL P1	10		
11	CONTROL PANEL	--	--	960	--	--	2"	12	10	10	20	A						150	0	0	1368	720	145	12		
13	UNDERDRAIN PUMP STATION	--	--	960	--	--	3/4"	12	10	10	20	A	40	6	6	8	3/4"	--	--	3600	--	--	ELECTRIC VEHICLE CHARGING STA.	14		
15	SPACE	--	--	960	--	--	--	--	--	--	10	B						--	--	3600	--	--	16			
17	SPACE	--	--	--	--	--	--	--	--	--	--	A	40	6	6	8	3/4"	--	--	3600	--	--	ELECTRIC VEHICLE CHARGING STA.	18		
19	SPACE	--	--	--	--	--	--	--	--	--	--	B						--	--	3600	--	--	20			
21	SPACE	--	--	--	--	--	--	--	--	--	--	A						--	--	--	--	--	SPACE	22		
23	SPACE	--	--	--	--	--	--	--	--	--	--	B						--	--	--	--	--	SPACE	24		
25	SPACE	--	--	--	--	--	--	--	--	--	--	A						--	--	--	--	--	SPACE	26		
VOLTAGE 240/120		PANEL LOAD SUMMARY					CONNECTED	KVA		DEMAND	NEC KVA		TOTALS:		KVA		AMPS	LOAD NOTES:								
PHASE WIRE 1 PHASE 4 WIRE									FACTORY				PHASE A:		46.7		389.0	1. LARGEST OF: NEC TABLE 220-12 OR CONNECTED LOAD.								
MAIN SIZE 400 AMPS		LIGHTING NOTE 1					1.2		125%		1.4		PHASE B:		46.2		385.4	2. <10KVA - 100% + >10KVA - 50%								
MAIN TYPE M.C.B.		RECP. NOTE 2					4.7		NEC		4.7		TOTAL:		92.9		387.2		3. INCLUDES 125% OF LARGEST MOTOR							
ENCLOSURE NEMA 4X		MOTOR NOTE 3					29.1		NEC		29.1															
TYPE PANELBOARD		HEAT					6.5		100%		6.5		PANEL NOTES:		1. S.E. RATED PANELBOARD											
BUSING COPPER		OTHER					51.5		65%		40.2															
BREAKER TYPE BOLT ON																										
MOUNTING SURFACE		TOTAL KVA					92.9				81.9		2. PANEL SHALL BE FULLY BUSSED.													
MINIMUM AIC RATING 22,000		KVA X 1000 / VOLTS = TOTAL AMPS							341.2																	
3. DEMAND LOAD FOR OTHER REFLECTS THE NEC ALLOWED 65% DEMAND FACTOR FOR THE FIVE RV PEDESTALS PER NEC TABLE 551.73(A).																										

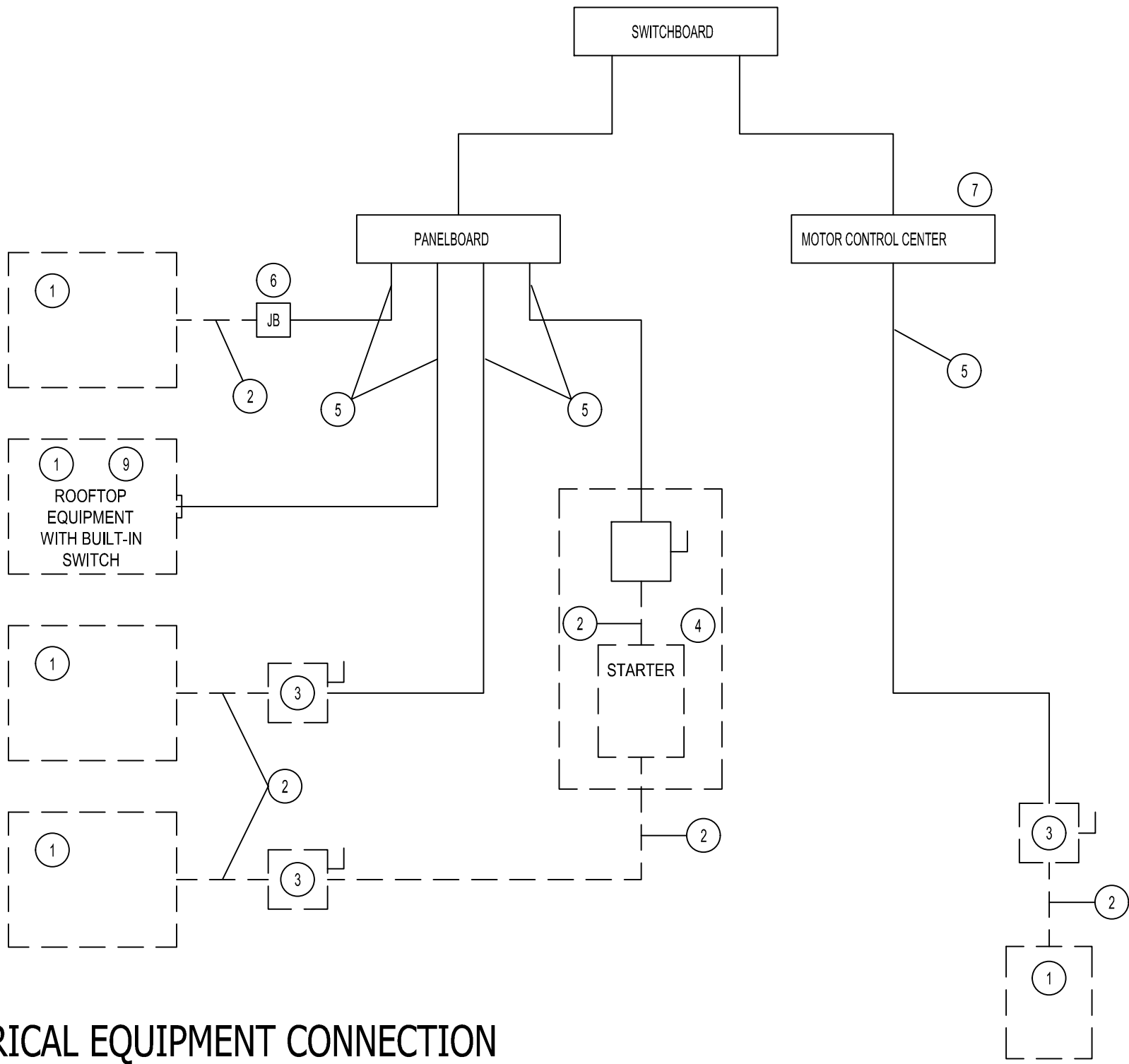
PANEL "P#" (TYPICAL CABIN PANEL) REFER TO PANEL NOTE #1																									
CT	DESCRIPTION	LIGHT	RECP	MOTOR	HEAT	OTHER	C	EGC	N	W	CB	PHASE	CB	W	N	EGC	C	OTHER	HEAT	MOTOR	RECP	LIGHT	DESCRIPTION	CT	
1	LIGHTS	145	---	---	---	---	3/4"	12	12	12	20	A	15	12	12	12	3/4"	---	---	---	---	---	AC UNIT	2	
3	RECEPTACLES	---	900	---	---	---	3/4"	12	12	12	20	B	2P	12	12	12	---	---	---	---	---	---	PTAC-1	4	
5	RECEPTACLES	---	720	---	---	---	3/4"	12	12	12	20	A	20	12	12	12	3/4"	160	---	---	---	---	SMOKE ALARMS	6	
7	SPARE	---	---	---	---	---	---	---	---	---	20	B	---	---	---	---	---	---	---	---	---	---	SPACE ONLY	8	
9	SPARE	---	---	---	---	---	---	---	---	---	20	A	---	---	---	---	---	---	---	---	---	---	SPACE ONLY	10	
11	SPARE	---	---	---	---	---	---	---	---	---	20	B	---	---	---	---	---	---	---	---	---	---	SPACE ONLY	12	
VOLTAGE		240/120		PANEL LOAD SUMMARY				CONNECTED		KVA		DEMAND		FACTOR		NEC KVA		TOTALS:		KVA		AMPS		LOAD NOTES:	
PHASE WIRE		1 PHASE 3 WIRE																TOTALS:		2.4		19.9		1. LARGEST OF: NEC TABLE 220-12 OR CONNECTED LOAD.	
MAIN SIZE		30 AMPS		LIGHTING NOTE 1				0.1		125%		0.2						PHASE B:		2.3		18.9		2. <10KVA - 100% + >10KVA - 50%	
MAIN TYPE		M.C.B.		RECP. NOTE 2				1.6		NEC		1.6												3. INCLUDES 125% OF LARGEST MOTOR	
ENCLOSURE		NEMA 3R		MOTOR NOTE 3				2.7		NEC		2.7		TOTAL:		4.7		19.4		4. ---					
TYPE		PANELBOARD		HEAT				0.0		100%		0.0												PANEL NOTES:	
BUSING		COPPER		OTHER				0.2		100%		0.2												1. LABEL EACH CABIN PANEL "P#" (PLACE NUMBER OF CABIN WHERE THE "P#" IS INDICATED. THERE SHALL BE PANELS "P1" AND "P2".	
BREAKER TYPE		BOLT ON																						2. ---	
MOUNTING		SURFACE		TOTAL KVA				4.7				4.7												3. ---	
MINIMUM AIC RATING		10,000		KVA X 1000 / VOLTS = TOTAL AMPS								19.5													

PANEL "SH"																									
CT	DESCRIPTION	LIGHT	RECP	MOTOR	HEAT	OTHER	C	EGC	N	W	CB	PHASE	CB	W	N	EGC	C	OTHER	HEAT	MOTOR	RECP	LIGHT	DESCRIPTION	CT	
1	MENS RR RCPT.	---	775	---	---	---	3/4"	12	12	12	20	A	15	12	12	12	3/4"	---	888	---	---	---	GUH-1.2	2	
3	WOMENS RR RCPT.	---	540	---	---	---	3/4"	12	12	12	20	B	15	12	12	12	3/4"	---	888	---	---	---	GUH-3.4	4	
5	EVAC NOTE 1	---	---	---	---	800	3/4"	12	12	12	20	A	20	12	12	12	3/4"	---	1500	---	---	---	EH-1	6	
7	LIGHTS	862	---	---	---	---	---	---	---	---	---	B	20	12	12	12	3/4"	---	1500	---	---	---	EH-2	8	
9	EXTERIOR RCPT	---	180	---	---	---	3/4"	12	12	12	20	A	20	12	12	12	3/4"	---	---	1600	---	---	FAN-F-2	10	
11	HAND DRYER 101	---	---	500	500	---	3/4"	12	12	12	20	B	20	12	12	12	3/4"	---	---	1600	---	---	FAN-F-1	12	
13	INST. WTR. HTR	---	---	---	200	---	3/4"	12	12	12	20	A	15	12	12	12	3/4"	---	650	---	---	---	FAN-F-3	14	
15	HAND DRYER 102	---	---	500	500	---	3/4"	12	12	12	20	B	20	---	---	---	---	---	---	---	---	---	SPARE	16	
17	HAND DRYER 103	---	---	500	500	---	3/4"	12	12	12	20	A	20	---	---	---	---	---	---	---	---	---	SPARE	18	
19	SPARE	---	---	---	---	---	---	---	---	---	---	B	20	---	---	---	---	---	---	---	---	---	SPARE	20	
21	SPARE	---	---	---	---	---	---	---	---	---	---	A	20	---	---	---	---	---	---	---	---	---	SPARE	22	
23	SPARE	---	---	---	---	---	---	---	---	---	---	B	20	---	---	---	---	---	---	---	---	---	SPARE	24	
25	SPARE	---	---	---	---	---	---	---	---	---	---	A	20	---	---	---	---	---	---	---	---	---	SPARE	26	
27	SPARE	---	---	---	---	---	---	---	---	---	---	B	20	---	---	---	---	---	---	---	---	---	SPARE	28	
29	SPARE	---	---	---	---	---	---	---	---	---	---	A	20	---	---	---	---	---	---	---	---	---	SPARE	30	
VOLTAGE		240/120		PANEL LOAD SUMMARY				CONNECTED		DEMAND		NEC KVA		TOTALS:		KVA		AMPS		LOAD NOTES:					
PHASE WIRE		1 PHASE 3 WIRE						KVA		FACTOR		TOTAL		PHASE:		7.6		63.3		1. LARGEST OF: NEC TABLE 220-12 OR CONNECTED LOAD					
MAIN SIZE		125 AMPS				LIGHTING NOTE 1		0.9		125%		1.1		PHASE:		7.4		61.6		2. <10KVA - 100% + >10KVA - 50%					
MAIN TYPE		M.C.B.				RECP. NOTE 2		1.5		NEC		1.5		TOTAL:		15.0		62.4		3. INCLUDES 125% OF LARGEST MOTOR					
ENCLOSURE		NEMA 1				MOTOR NOTE 3		5.4		NEC		5.4		TOTAL:		15.0		62.4		4. ---					
TYPE		PANELBOARD				HEAT		6.5		100%		6.5		PANEL NOTES:											
BUSING		COPPER				OTHER		0.8		100%		0.8		1.						PROVIDE BREAKER WITH GFCI PROTECTION					
BREAKER TYPE		BOLT ON												2.											
MOUNTING		SURFACE				TOTAL KVA		15.0						3.											
MINIMUM A.C. RATING		14,000				KVA X 1000 / VOLTS = TOTAL AMPS		153.2						4.											

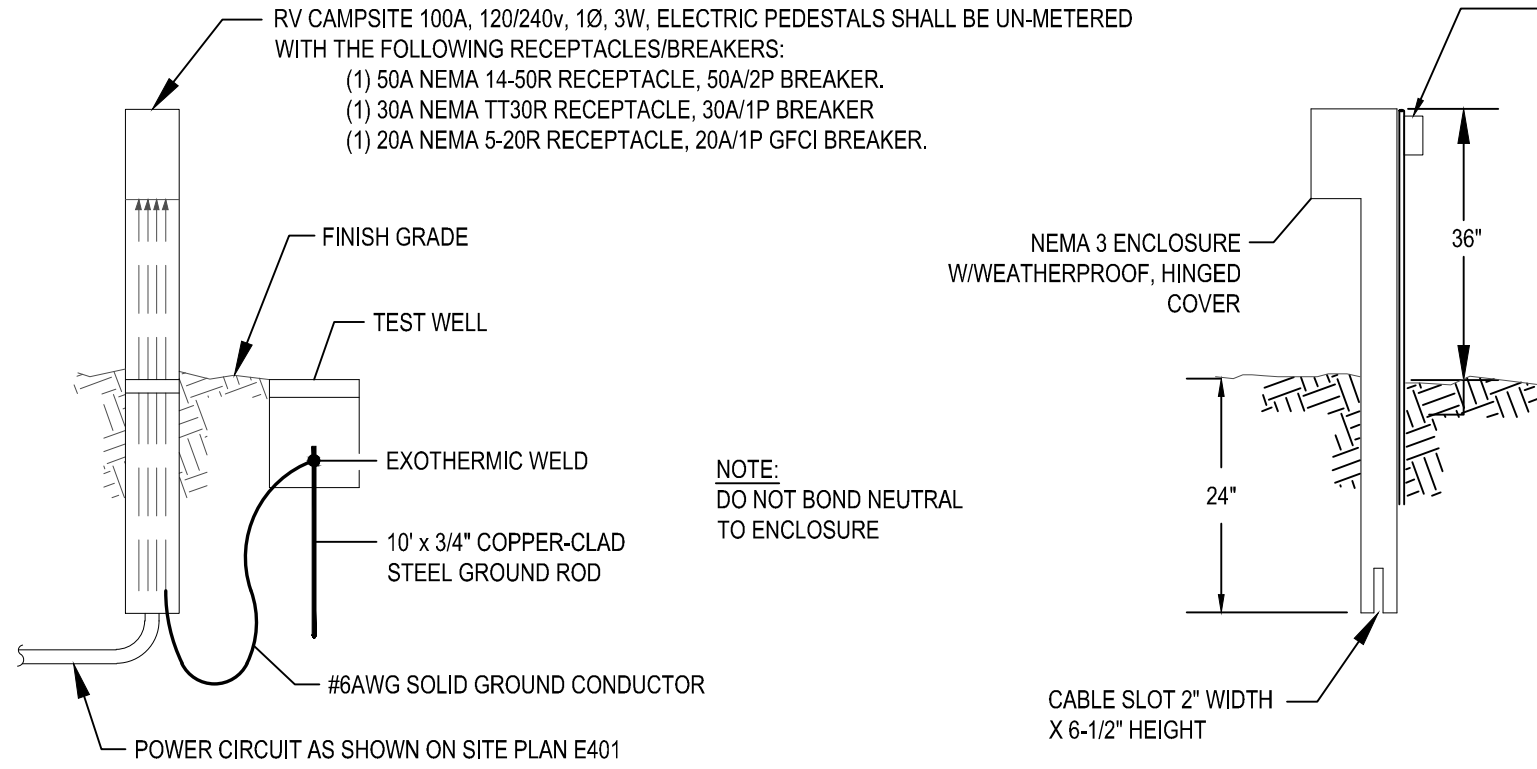


ELECTRICAL NOTES

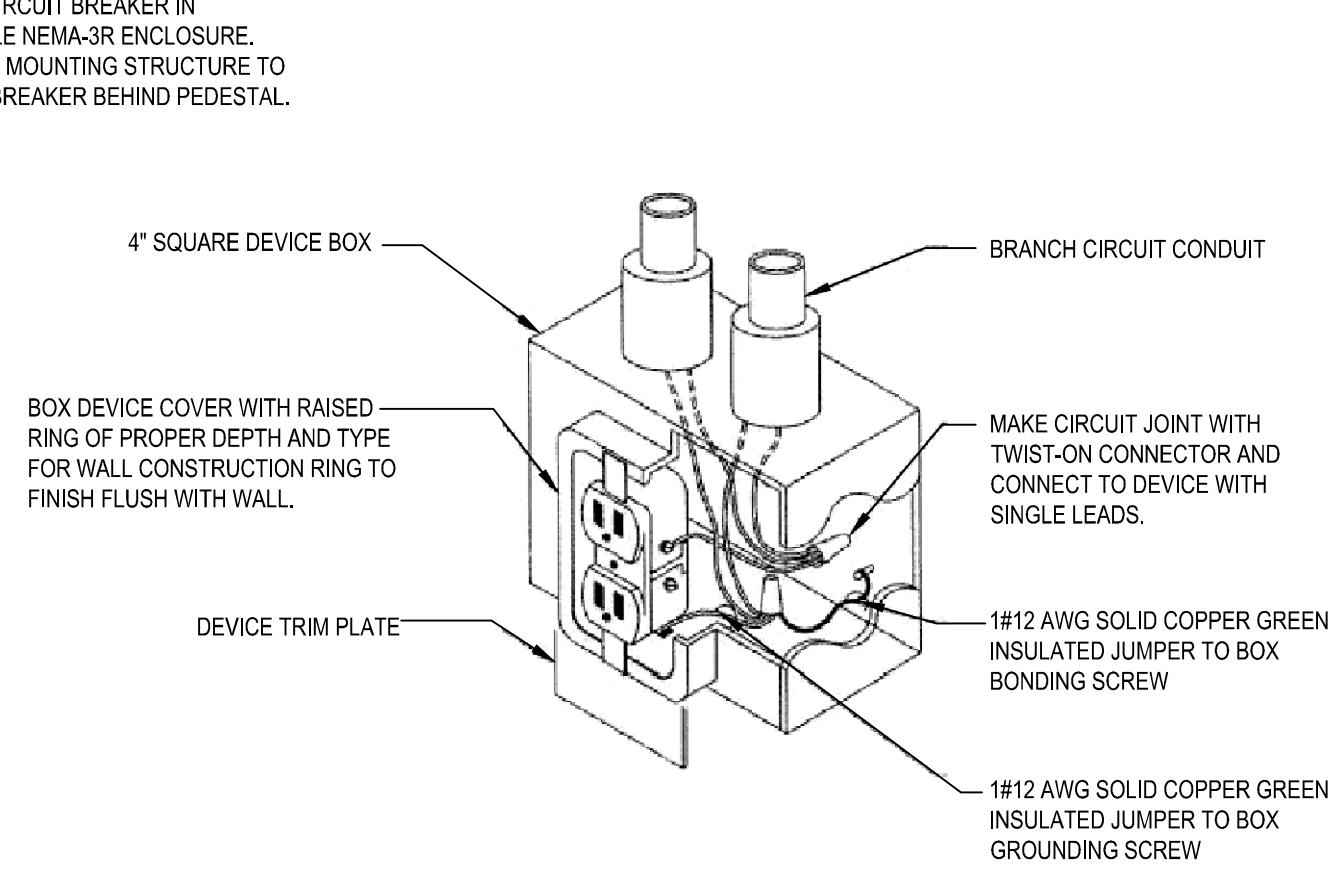
- 1 EQUIPMENT OF TRADES OTHER THAN ELECTRICAL
- 2 CONDUIT & WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES.
- 3 IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- 4 A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONNECT SWITCH AND STARTER. LOCATE ADJACENT TO EQUIPMENT.
- 5 FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
- 6 JUNCTION BOX MAY BE SHOWN ON ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED, A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
- 7 PROJECTS UTILIZING AN MCC, THE STARTER, CB, OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- 8 IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP AND TEST EQUIPMENT.
- 9 IF THE ROOFTOP EQUIPMENT IS NOT PROVIDED WITH BUILT IN SWITCH, THE ELECTRICAL CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH.
- 10 IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND THE OTHER TRADES.



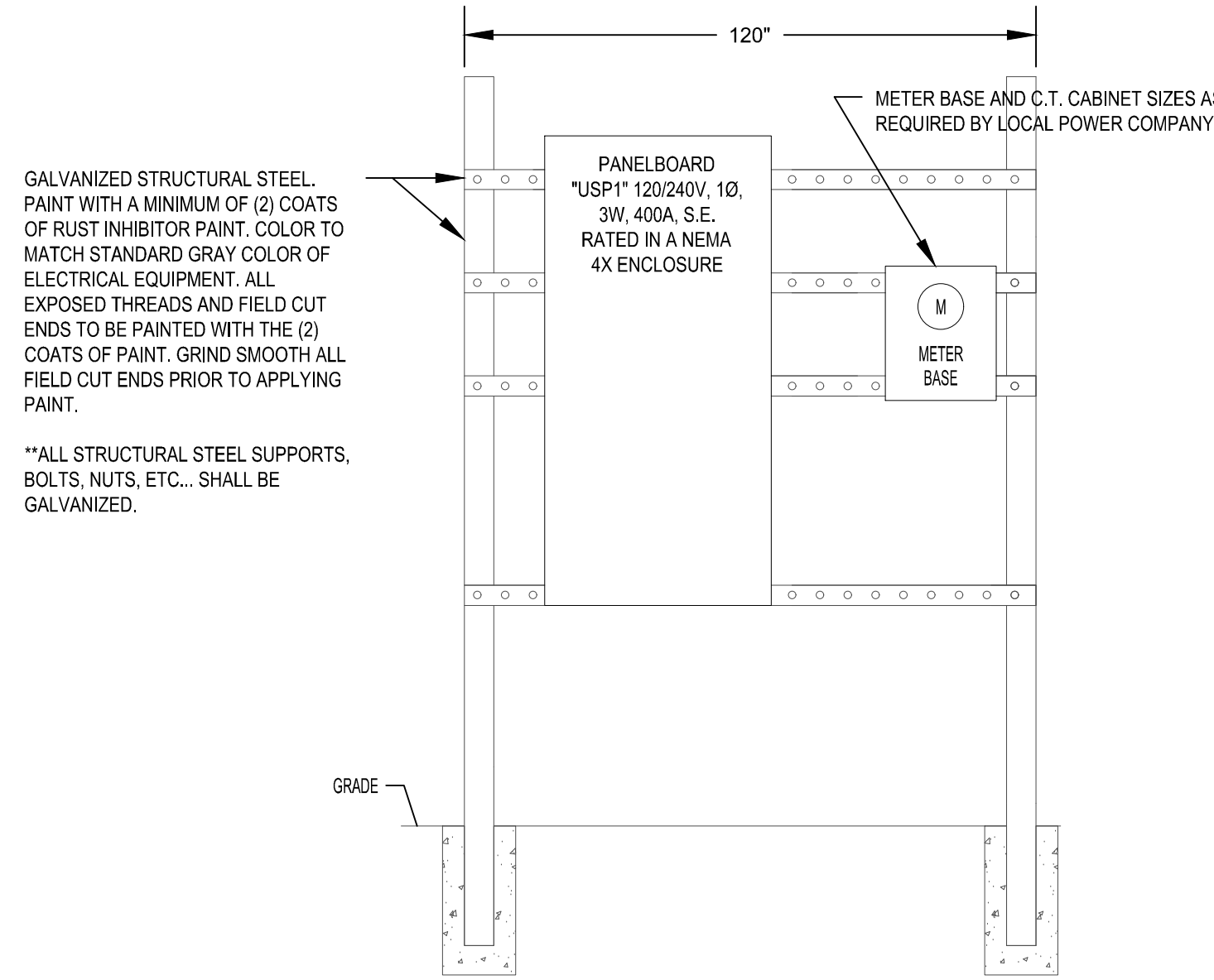
1 ELECTRICAL EQUIPMENT CONNECTION  
E-601 SCALE: NTS



4 RV POWER PEDESTAL DETAIL  
E-601 SCALE: NTS



3 RECEPTACLE GROUNDING DETAIL.  
E-601 SCALE: NTS



5 ELECTRICAL SERVICE EQUIPMENT FRONT VIEW  
E-601 SCALE: N.T.S.

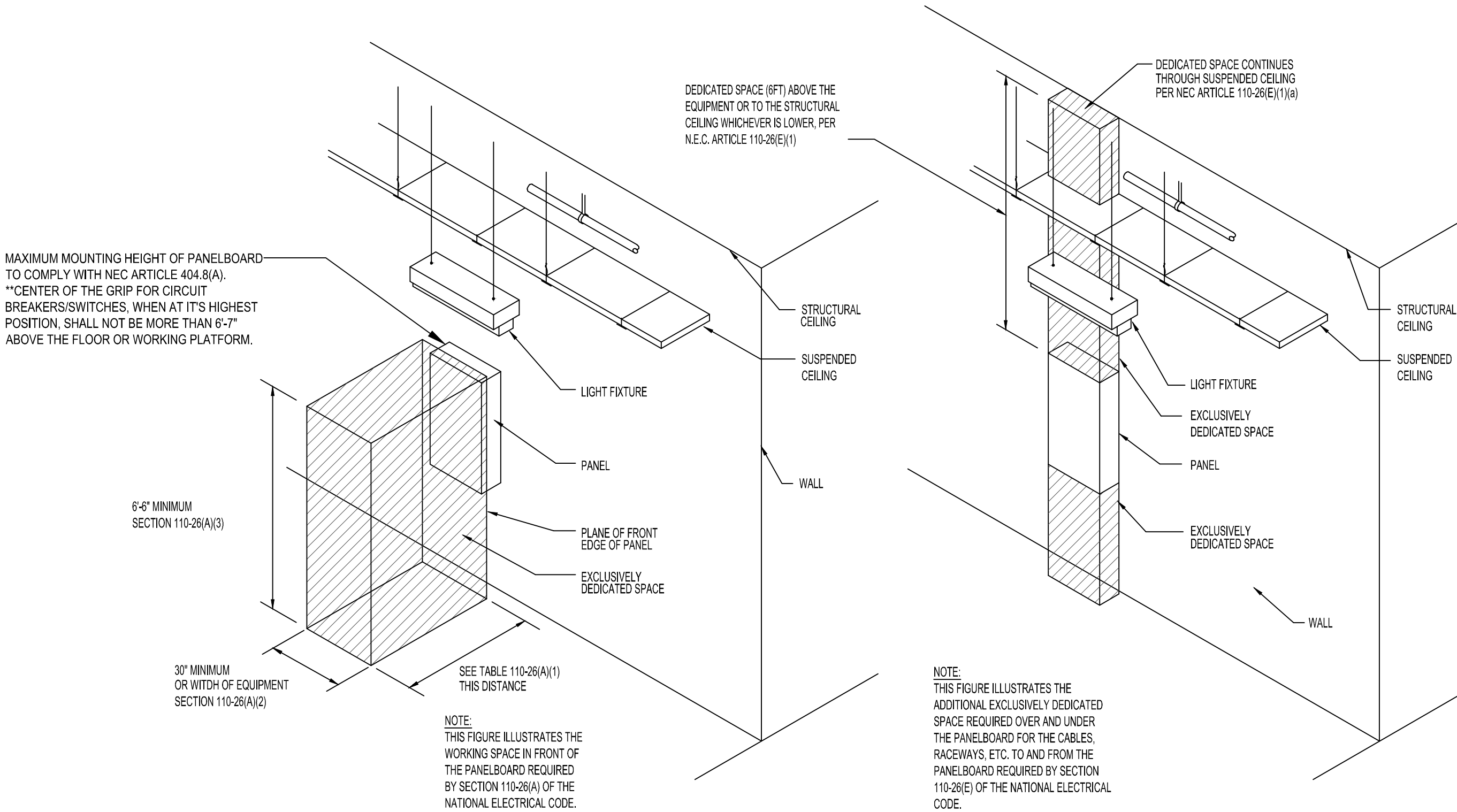


TABLE 110-26(A)(1) WORKING CLEARANCES				
VOLTAGE TO GROUND, NOMINAL	MINIMUM CLEAR DISTANCE (FEET)			
	CONDITION: 1	2	3	4
0-150	3	3	3	3
151-600	3	3 1/2	4	4

NOTES:  
NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN ABOVE.

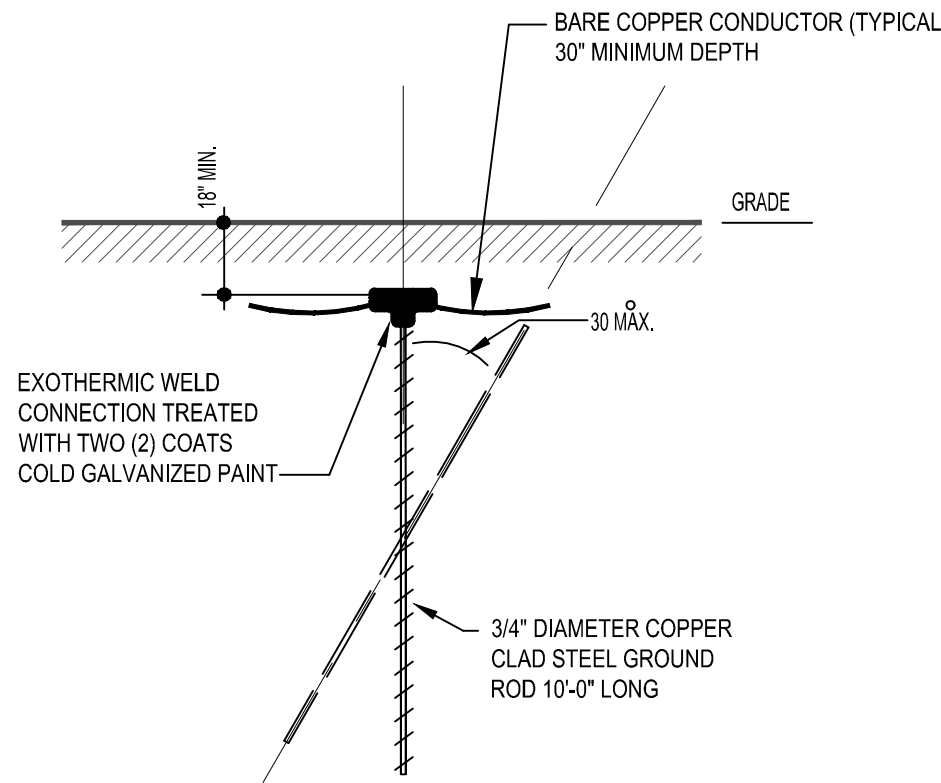
WHERE THE "CONDITIONS" ARE AS FOLLOWS:  
1. EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GUARDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATE BUSBARS OPERATING AT NOT OVER 300 VOLTS SHALL NOT BE CONSIDERED LIVE PARTS.  
2. EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.  
3. EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GUARDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

2 DEDICATED SPACE REQUIREMENTS FOR PANELBOARDS  
E-601 SCALE: NTS



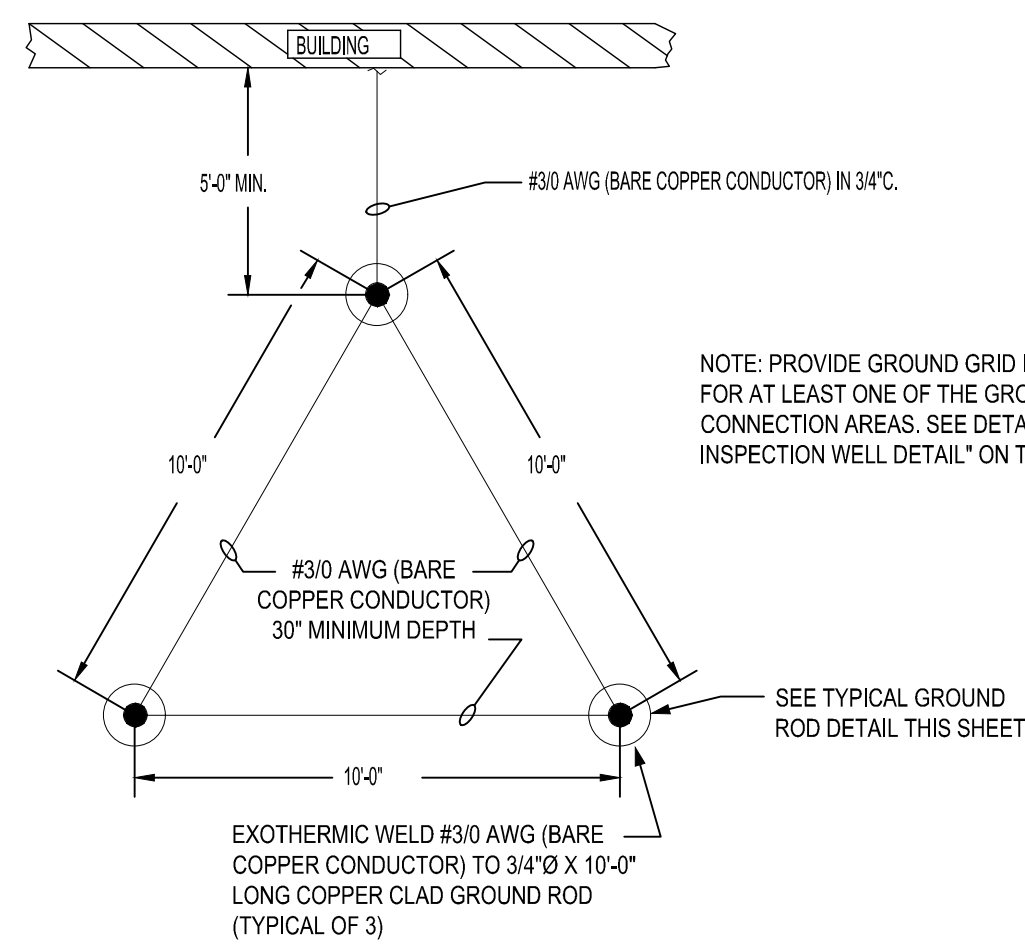
### 3 TYPICAL GROUND ROD DETAIL

E-602 SCALE: NTS



### 4 GROUND GRID DETAIL

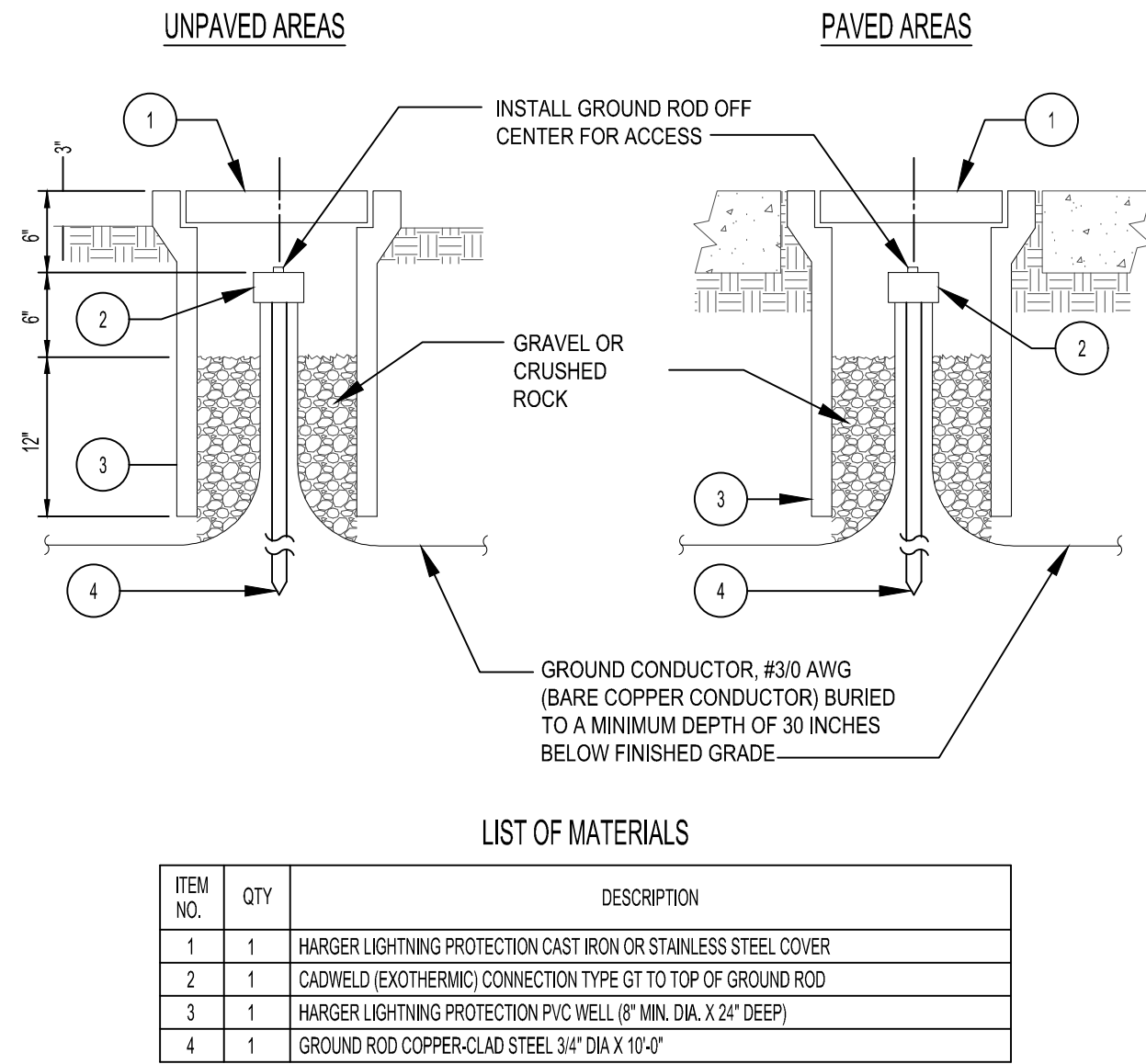
E-602 SCALE: NTS



NOTE: PROVIDE GROUND GRID INSPECTION WELL FOR AT LEAST ONE OF THE GROUND ROD CONNECTION AREAS. SEE DETAIL "GROUND GRID INSPECTION WELL DETAIL" ON THIS SHEET.

### 5 GROUND GRID INSPECTION WELL DETAIL

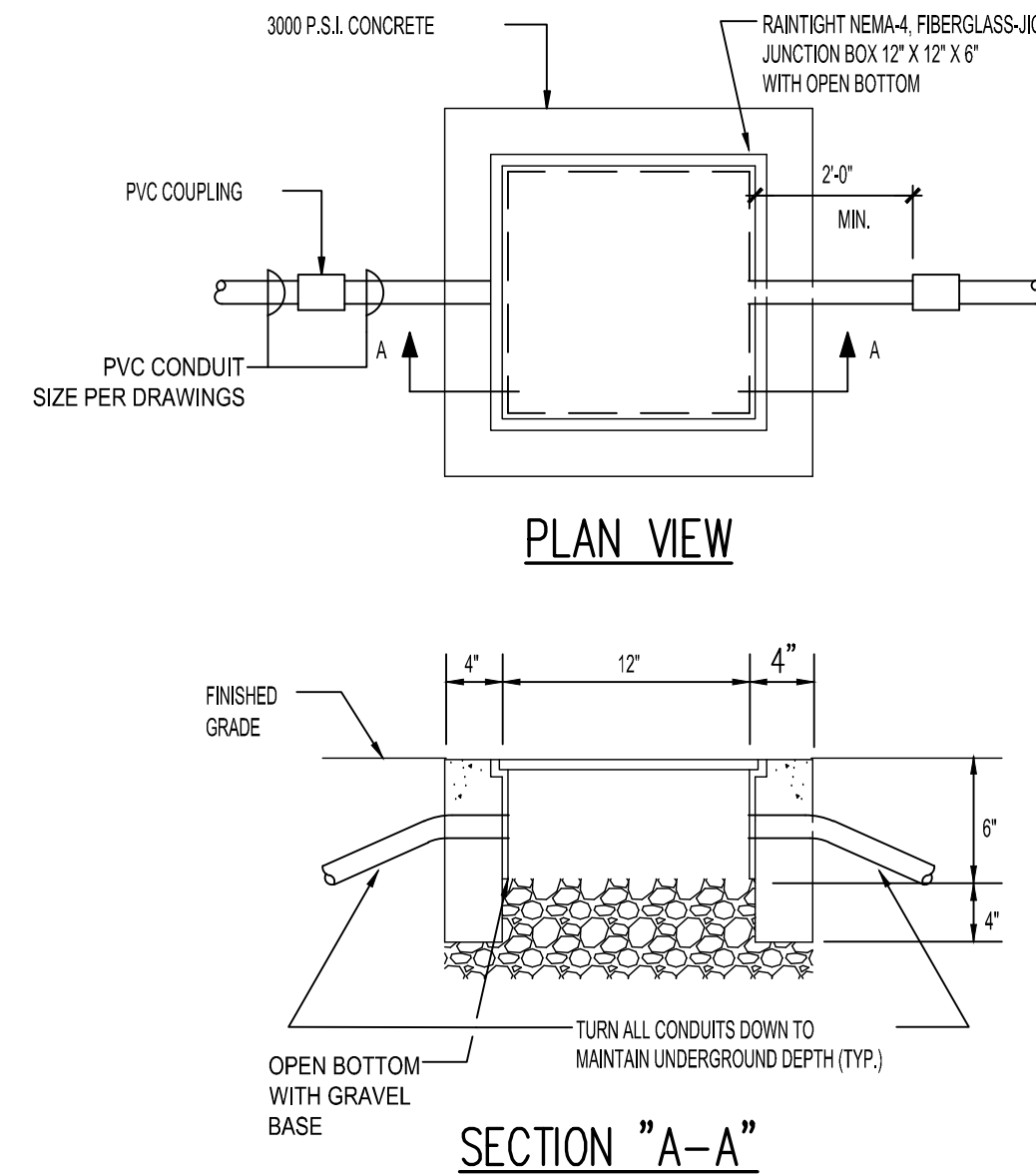
E-602 SCALE: NTS



ITEM NO.	QTY	DESCRIPTION
1	1	HARGER LIGHTNING PROTECTION CAST IRON OR STAINLESS STEEL COVER
2	1	CADWELD (EXOTHERMIC) CONNECTION TYPE GT TO TOP OF GROUND ROD
3	1	HARGER LIGHTNING PROTECTION PVC WELL (8" MIN. DIA. X 24" DEEP)
4	1	GROUND ROD COPPER-CLAD STEEL 3/4" DIA X 10'-0"

### 6 HAND HOLE DETAIL

E-602 SCALE: NTS



#### PLAN VIEW

#### SECTION "A-A"

TURN ALL CONDUITS DOWN TO MAINTAIN UNDERGROUND DEPTH (TYP.)

OPEN BOTTOM WITH GRAVEL BASE

FINISHED GRADE

4" 12" 4"

6"

4"

3000 P.S.I. CONCRETE

RAIN-TIGHT NEMA-4 FIBERGLASS-JIC JUNCTION BOX 12" X 12" X 6" WITH OPEN BOTTOM

2'-0" MIN.

PVC COUPLING

PVC CONDUIT SIZE PER DRAWINGS

A

A

4"

12"

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6"

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3000 P.S.I. CONCRETE

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