GENERAL ELECTRICAL NOTES:

- 1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING, INSTALLING AND CONNECTING ALL LINE AND LOW VOLTAGE CONDUIT, CONDUCTORS, SWITCHES, DISCONNECTS, JUNCTION BOXES, AND FIXTURES FOR POWER, TELECOMMUNICATIONS, AND LIGHTING SYSTEMS.
- 2. THE ELECTRICAL CONTRACTOR SHALL SUPPLY, RIG AND MOUNT THE ELECTRICAL GENERATORS, TRANSFER SWITCHES AND ASSOCIATED COMPONENTS.
- 3. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL CONDUIT, CONDUCTORS, AND ASSOCIATED ITEMS TO CONNECT THE GENERATORS TO THE BUILDING ELECTRICAL SYSTEM.
- 4. THE ELECTRICAL CONTRACTOR SHALL PROVIDE GENERATOR START UP, TESTING, AND OWNER TRAINING PER THE CONSTRUCTION SPECIFICATIONS, AND SHALL ENSURE CORRECT FUNCTIONING OF THE INTERCONNECTION OF THE GENERATOR TO THE BUILDING ELECTRICAL SYSTEM.
- 5. PROVIDE A TYPEWRITTEN CIRCUIT DIRECTORY IN ALL NEW PANEL BOXES.
- 6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ARRANGING AND SCHEDULING ALL ELECTRICAL INSPECTIONS, PAY ALL FEES, AND SUBMIT A FINAL INSPECTION REPORT TO THE ENGINEER.
- 7. THE ELECTRICAL CONTRACTOR SHALL INSTALL ALL GROUNDING IN ACCORDANCE WITH NEC ARTICLE 250 AND ACCORDING TO THE REQUIREMENTS INDICATED ON THE DRAWINGS. EQUIPMENT GROUNDING CONDUCTORS SHALL BE USED. GROUNDING THROUGH RACEWAY AND CONDUITS IS NOT PERMITTED.
- 8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL GROUND CONDUCTORS TO BOND THE FIRE HOUSE GROUNDING SYSTEM TOGETHER.
- 9. THE LOCATIONS AND ROUTES OF CONDUITS AND RACEWAYS SHOWN ON THESE DRAWINGS ARE SCHEMATIC. ALL CONDUITS ABOVE THE SLAB SHALL BE INSTALLED PARALLEL OR PERPENDICULAR TO THE BUILDING. CONDUITS ABOVE THE CEILING SHALL BE MOUNTED AS HIGH AS POSSIBLE. ALL BELOW GROUND CONDUITS SHALL BE INSTALLED USING THE MOST DIRECT ROUTE WITH CONSIDERATION OF PROPER COORDINATION WITH OTHER UTILITIES - UNDERGROUND OR ABOVE GROUND.
- 10. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND CONDUCTORS FOR TELEPHONE AND LAN SYSTEMS. ALL CONDUCTORS SHALL BE COPPER WITH TYPE THHN/THWN OR XHHW INSULATION UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE SIZED PER NEC.
- 11. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LAMPS FOR ALL LIGHTING FIXTURES.
- 12. ALL DUPLEX RECEPTACLES SHALL BE MOUNTED VERTICALLY AND 18" NOMINALLY AFF TO BOTTOM OF BOX UNLESS OTHERWISE INDICATED.
- 13. FASTENING OF HANGERS TO THE ROOF WILL NOT BE PERMITTED. ANY CONTRACTOR RESPONSIBLE FOR PUNCTURING THE ROOF STRUCTURE WILL REPAIR THE ROOF AT THEIR EXPENSE.
- 14. ALL DISCONNECT SWITCHES AND SAFETY SWITCHES ARE TO BE HEAVY DUTY TYPE.
- 15. MC CABLE MAY BE USED FOR LIGHTS AND RECEPTACLES WHEN RUN IN A WALL CAVITY. THE MC CABLE SHALL NOT BE RUN SURFACE MOUNTED. WHEN LEAVING A WALL CAVITY, A BOX SHALL BE USED TO TRANSITION FROM MC CABLE TO CONDUIT AND CONDUCTORS. MC CABLE SHALL NOT BE ALLOWED TO LEAVE A PANEL BOX. ALL PANEL BOX ENTRIES SHALL BE MADE WITH CONDUIT AND CONDUCTORS.
- 16. "GREENFIELD" AND LIQUID TIGHT FLEX CONDUIT MAY BE USED IN LENGTHS NOT TO EXCEED 72".
- 17. THE ELECTRICAL CONTRACTOR SHALL CAULK ALL PENETRATIONS, RELATED TO ELECTRICAL WORK, IN 1 & 2 RATED HR FIRE WALL WITH 3M FIRE CAULK. SEAL LARGER OPENINGS WITH WIREMOLD "FLAMESTOPPER" KIT.
- 18. ALL EXTERIOR EXPOSED CONDUIT SHALL BE GRC.
- 19. ALL CONDUIT IN THE FIRE HOUSE SHALL BE EMT.
- 20. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT CONDUIT AND CONDUCTORS FOR THE HVAC EQUIPMENT. THIS SHALL INCLUDE LINE AND LOW VOLTAGE EQUIPMENT. REVIEW HVAC AND PLUMBING DRAWINGS FOR EQUIPMENT LOCATIONS AND ELECTRICAL REQUIREMENTS.
- 21. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL ETHERNET CONDUIT AND CONDUCTORS.
- 22. ALL JUNCTION BOXES AND DISCONNECTS SHALL BE MOUNTED ABOVE THE FLOOD ELEVATION.
- 23. NO CONDUITS SHALL BE INSTALLED WITHIN THE UNCONDITIONED SPACE.

 NEW #% AWG GROUND GRID EXOTHERMIC CONNECTION TO BUILDING FOUNDATION REINFORCING BAR	⊥_ L.A
NEW #4/0 AWG MAIN GROUND GRID CONDUCTOR BELOW GRADE (BURY 30" BELOW GRADE THROUGHOUT)	1600A 1200A
3/4"x 10' COPPER CLAD GROUND ROD WITH EXOTHERMIC CONNECTION TO MAIN GROUND GRID CONDUCTOR	¥
GROUND GRID RISER CONDUCTOR THROUGH SLAB FOR CONNECTION TO COLUMN, EQUIPMENT, ETC.	
EXOTHERMIC CONNECTION BETWEEN GROUND GRID CONDUCTOR	400A °
NEW PANEL	*
HOMERUN GP = GENERAL PURPOSE PANEL 'GP' 2 = CIRCUIT No.))
CONDUIT DOWN	₩ Â
CONDUIT UP FLEXIBLE CONDUIT CONNECTION	Ť.
SPECIAL USE RECEPTACLE REFER TO INFORMATION ON INDIVIDUAL DRAWINGS	52
NEW RECEPTACLE GF = GROUND FAULT WP = WEATHERPROOF LPA1-2 = FEED FROM PANEL LPA1 CIRCUIT 2	∆ ulu (⊒m
EXISTING SINGLE RECEPTACLE 42" AFF = 42 INCHES ABOVE FINISHED FLOOR	==-3 {-==-≫ ¢
SWITCH $-$ A = SWITCHING SCHEME 3 = 3 WAY 4 = 4 WAY M = MOTOR STARTER TYPE	sss /-
NEW TELEPHONE JACK	
NEW ETHERNET JACK	0 0
EQUIPMENT CONTROLLER	TVSS
WATT STOPPER	
OCCUPANCY SENSOR	FACP
	RADIC
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GP-2

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42"AFF

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GF_LPA1-2

SYMBOLS

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G ⊥.A.	LIGHTNING ARRESTOR
1600A 1200A)- <u>SST</u> ST	DRAW-OUT TYPE SOLID STATE CIRCUIT BREAKER 1600A = FRAME SIZE 1200A = TRIP SENSOR LT = LONG TIME TRIP FUNCTION ST = SHORT TIME TRIP FUNCTION I = INSTANTANEOUS TRIP FUNCTION SST = SOLID STATE TRIP UNIT
$\frac{400A}{300A}^{\circ}$	CIRCUIT BREAKER. 400A = FRAME SIZE 300A = TRIP RATING
Ĩ) ↓	DRAW OUT TYPE CIRCUIT BREAKER
52 V	DRAW-OUT TYPE POWER CIRCUIT BREAKER
	DELTA-WYE TRANSFORMER. SIZE AS INDICATED ON DRAWINGS.
«œ-} {-œ»	POTENTIAL TRANSFORMER
ŧ	CURRENT TRANSFORMER
SSS /	SOLID STATE SOFT STARTER
0 0	LOCAL START/LOCK STOP CONTROLLER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESION
FACP	FIRE ALARM CONTROL PANEL

1200A = TRIP SENSOR LT = LONG TIME TRIP FUNCTION ST = SHORT TIME TRIP FUNCTION	_~_	DISCONNECT SWITCH
I = INSTANȚANEOUS TRIP FUNCȚION	×	MOTOR. SIZE AS INDICATED ON DRAWINGS. X = HORSEPOWER
SST = SOLID STATE TRIP UNIT	ĸ	KEY INTERLOCK
CIRCUIT BREAKER. 400A = FRAME SIZE 300A = TRIP RATING	J	JUNCTION BOX. SIZE AS SHOWN ON DRAWINGS.
DRAW OUT TYPE CIRCUIT BREAKER	[]80E	FUSE 80E = RATING
	\bigcirc	GENERATOR SIZE AS INDICATED ON DRAWINGS
DRAW-OUT TYPE POWER CIRCUIT BREAKER	\$ ^A Lpm−9 ⊢J−−	LIGHTING FIXTURE CONTROLLED BY SWITCHING SCHEME A AND FED FROM LIGHTING PANEL LPM CIRCUIT 9
DELTA-WYE TRANSFORMER. SIZE AS INDICATED ON DRAWINGS.	VFD	VARIABLE FREQUENCY DRIVE
POTENTIAL TRANSFORMER		VARIABLE FREQUENCE DRIVE
CURRENT TRANSFORMER	Ň	
SOLID STATE SOFT STARTER	(E)	EMERGENCY STOP
LOCAL START/LOCK STOP CONTROLLER		COMBINATION DISCONNECT SWITCH MOTOR STARTER $A = STARTER SIZE$
TRANSIENT VOLTAGE SURGE SUPPRESION	(M)	METHANE SENSOR
	0	OXYGEN SENSOR
FIRE ALARM CONTROL PANEL		
RADIO TRANSCEIVER	页	STROBE LIGHT
OMNI DIRECTIONAL ANTENNA/WITH MODULE	F	PULL STATION WITH KEY RESET
SOUNDER STROBE	s	SMOKE DETECTOR PHOTO ELECTRIC
60 MIN TIMER	н×	HEAT DETECTOR X=135 FOR 135DEG RATE OF RISE AND X=190 FOR 190DEG RATE OF RISE
	ANSUL	SUPPRESSION SYSTEM SUPERVISION
	DR	DOOR HOLDER WALL MOUNT
	NMM	ADDRESSABLE MINI MODULE
	Ś	EXPLOSION PROOF SMOKE DETECTOR
	XF	EXPLOSION PROOF PULL STATION WITH KEY RESET
	页	EXTERIOR STROBE LIGHT WITH HORN

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NORMALLY OPEN CONTACT

DISCONNECT SWITCH

NORMALLY CLOSED CONTACT

ECTOR EXTERIOR STROBE LIGHT WITH HORN ANNUNCIATOR

			Image: Strategy of the strategy
			PORT EWEN FIRE DEPARTMENT ULSTER COUNTY, NY NO. DATE DESCRIPTION NO. DATE 0.01E 0.00STRUCTION 1 6/16/23 CONSTRUCTION 1 6/16/24 CONSTRUCTION
		ID PLANS	ELECTRICAL NOTES
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