**INSTALLATION NOTES - ELECTRICAL** 

- CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS PRIOR TO
- INCREASE CONDUCTOR SIZES ON 120V-1 PHASE CIRCUITS EXCEEDING 100 FEET TO
- CENTER OF LOAD TO ACCOUNT FOR VOLTAGE DROP. RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE THE GENERAL AND APPROXIMATE LOCATION. THE LAYOUT DOES NOT NECESSARILY SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE
- RACEWAYS. LIGHT FIXTURES, SWITCHES, DEVICES, ETC, ARE SHOWN IN PREFERRED LOCATION, E.C. RESPONSIBLE FOR MODIFYING CONDUIT, HANGERS, CIRCUITING, ETC. TO PROVIDE A
- COMPLETE AND OPERATIONAL SYSTEM. PROVIDE A DEDICATED GREEN INSULATED GROUND CONDUCTOR TO ALL DEVICES. THE
- CONDUIT SYSTEM SHALL NOT BE USED AS THE ONLY EQUIPMENT GROUNDING METHOD. DO NOT INSTALL DEVICES BACK TO BACK ON OPPOSITE SIDES OF WALL. MAINTAIN MINIMUM OF 8" DISTANCE BETWEEN WHEREVER APPLICABLE.
- BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE DURING INSTALLATION.
- CIRCUIT NUMBERING SHOWN ON PLANS MAY BE ADJUSTED. PROVIDE FINAL TYPED PERMANENT PANEL DIRECTORY AT PROJECT COMPLETION. CONTRATOR IS RESPONSIBLE FOR OPENINGS IN WALLS CREATED BY THEIR WORK. PENETRATIONS SHALL BE SEALED IN ACCORDANCE WITH THE RATINGS OF THE AFFECTED WALL. REFER TO ARCHITECTURAL CODE PLAN FOR RATED WALLS.

## **INSTALLATION NOTES - LIGHTING**

- UNLESS NOTED OTHERWISE, CONNECT ALL EMERGENCY BATTERY FIXTURES WITH AN UN-SWITCHED LEG OF THE LIGHTING CIRCUIT THAT SERVES THE SPACE THE EMERGENCY FIXTURE IS LOCATED WITHIN. NORMAL SWITCHING SCHEME SHOULD BE MAINTAINED UNDER NORMAL OPERATING OF EMERGENCY FIXTURES DESIGNATED.
- WIRE PER EMERGENCY FIXTURE OR TRANSFER DEVICE INSTRUCTIONS. VERIFY CEILING TYPE (IE. GRID, GYP) WITH ARCHITECTURAL REFLECTED CEILING PLANS PRIOR TO RELEASE OF LIGHTING FIXTURE EQUIPMENT PACKAGE. ADJUST FIXTURE TYPE, CONSTRUCTION, FLANGE, OR OTHER COORDINATION DETAILS AS REQUIRED FOR
- CEILING TYPE. OCCUPANCY SENSORS SHOWN ON PLANS ARE SUGGESTED LOCATIONS ONLY AND MUST BE VERIFIED WITH SPECIFIC MANUFACTURER GUIDELINES AND INSTALLATION RECOMMENDATIONS AS NOTED IN LIGHTING CONTROL SHOP DRAWINGS. ADJUST
- LOCATIONS AS REQUIRED TO MEET MANUFACTURER GUIDELINES. PROVIDE LIGHTING CONTROL SYSTEMS AS A COMPLETE OPERATING SYSTEM AND INCLUDE MATERIAL AND INSTALLATION FOR ALL POWER PACKS, ACCESSORIES, CONTROLLERS, AND WIRING REQUIRED FOR THE SYSTEM.

## CODE NOTES - ELECTRICAL

- THE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND Α. NATIONAL CODES.
- THE CURRENT ADOPTED EDITION OF THE ELECTRICAL CODE SHALL BE THE STANDARD FOR THE ELECTRICAL INSTALLATION, NEC 2017. VERIFY WITH LOCAL OFFICIALS WHEN PERMITS ARE OBTAINED. NOTIFY DESIGN TEAM OF ANY DESCREPANCIES BETWEEN THE PROJECT MANUAL OR DRAWINGS AND THE GOVERNING CODE.
- INSTALLATION SHALL FOLLOW ALL REQUIREMENTS OF THE ADAAG AMERICANS WITH DISABILITIES ACT.

## BUILDING EQUIPMENT COORDINATION NOTES - ELECTRICAL

SYSTEMS. В. UNDER THIS PROJECT. C. D. TO ACCOMMODATE EQUIPMENT BEING SUPPLIED.

Α.

- F.
- G.
- MINIMM OF 3R OR AS INDICATED.
- H.

## **DEMOLITION AND RENOVATION NOTES - ELECTRICAL**

- В.
- AS POSSIBLE.
- C. D.
- DEVICES.
- WALLS OR BELOW SLABS.
- G.
- EXISTING CIRCUITS.
- ADVANCE OF SHUT DOWN.
- WORK
- Κ.
  - L.

#### REFER TO HVAC, PLUMBING, AND FIRE PROTECTION EQUIPMENT CONNECTION SCHEDULE FOR COORDINATION DETAILS BETWEEN MECHANICAL AND ELECTRICAL

THE ELECTRICAL SYSTEMS SHALL BE PROVIDED AND INSTALLED UNDER THIS CONTRACT TO MEET THE REQUIREMENTS OF THE SPECIFIED MECHANICAL SYSTEMS. THE ENTIRE PROJECT DOCUMENTS AND MANUALS SHALL BE REFERENCED AS A COMPLETE PROJECT. ELECTRICAL CONTRACTOR SHALL REFER TO ALL SCHEDULES, DETAILS, AND NOTES AND PROVIDE ELECTRICAL EQUIPMENT, WIRING, AND INSTALLATION REQUIRED

PROVIDE ELECTRICAL CONNECTIONS AND ACCESSORIES INCLUDING STARTERS, DISCONNECTS, CONTROL WIRING, ETC. AS REQUIRED FOR THE BUILDING MECHANICAL EQUIPMENT. INFORMATION HEREIN AND ON THE DRAWINGS IS FOR GENERAL DESCRIPTION AND ESTIMATING PURPOSES ONLY. VERIFY VOLTAGE, AMPERAGE, PHASE, INRUSH, ETC. FOR EACH ITEM OF EQUIPMENT BEFORE PROCEEDING WITH WIRING FOR IT. WIRING DETAILS SHALL BE IN ACCORDANCE WITH INSTRUCTIONS TO BE FURNISHED BY THE SUPPLIERS OF THE EQUIPMENT AS NECESSARY TO PROVIDE PROPER OPERATION OF THE EQUIPMENT.

REVIEW MECHANICAL EQUIPMENT SHOP DRAWINGS FOR COMPLIANCE AND COORDINATION WITH ELECTRICAL CONNECTIONS. NOTIFY ENGINEER IF CHANGES TO ELECTRICAL CONNECTIONS, WIRING, AND BREAKER REQUIREMENTS ARE NECESSARY

NO ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE RELEASED UNTIL ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL INFRASTRUCUTRE HAS BEEN SUBMITTED AND APPROVED. ADJUSTMENTS TO BREAKER SIZES AND SIMILAR CHANGES MUST BE MADE TO ELECTRICAL EQUIPMENT PRIOR TO RELEASE, FABRICATION, AND SHIPPING OF ELECTRICAL EQUIPMENT. COORDINATE SCHEDULING OF SHOP DRAWINGS WITH ALL TRADES SUCH AS NOT TO CAUSE ANY DELAYS TO PROJECT.

PROVIDE DISCONNECTS RATED FOR EQUIPMENT AS REQUIRED AND AS INDICATED WITHIN EQUIPMENT CONNECTION SCHEDULE. MOUNTING OF DISCONNECTS SHOULD BE COORDINATED TO ALLOW FOR REMOVAL OF MECHANICAL EQUIPMENT WITHOUT NEEDING TO REMOVE THE DISCONNECT AND MINIMIZE WIRING WORK REQUIRED. ALL MECHANICAL EQUIPMENT DISCONNECTS SHALL BE HEAVY DUTY TYPE AND RATED FOR THE ENVIRONEMENT THEY SERVE. EXTERIOR DISCONNECTS SHALL BE RATED A

VERIFY LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR. ADJUST ELECTRICAL INSTALLATION AS REQUIRED.

THE ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAVE BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH ARE NOT SHOWN, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH ARE SHOWN. CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL

SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS

PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT. CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY WALL AND CEILING DEMOLITION AND ADJACENT REMOVALS. REMOVE EXISTING WIRING FOR REMOVED

ALL WIRING FOR REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL CONDUIT SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE OR WHERE FIELD VERIFIED FOR SUITABLE USE WHEN LOCATED WITHIN EXISTING BLOCK

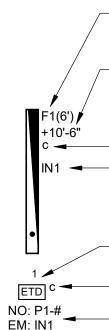
BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE DEMOLITION AREA SHALL BE MAINTAINED. EXTEND AND/OR RECONNECT NEW WIRING TO EXISTING AS REQUIRED TO MAINTAIN

EXISTING BUILDING SYSTEMS THAT ARE NOT AFFECTED BY THE SCOPE OF THE PROJECT ARE TO BE KEPT OPERATIONAL IN OCCUPIED AREAS OF THE BUILDING THROUGH THE DURATION OF THE PROJECT. COORDINATE REQUIRED OUTAGES WITH THE OWNER IN

INSTALL STAINLESS STEEL COVER PLATE OVER HOLE AT REMOVED DEVICE LOCATIONS, INCLUDING BUT NOT LIMITED TO, RECEPTACLES, SWITCHES, JUNCTION BOXES, ETC. PROVIDE CUTTING AND PATCHING OF EXISTING CONSTRUCTION AS REQUIRED FOR THE PROPER COMPLETION OF THE DEMOLITION WORK AND THE INSTALLATION OF THE NEW

EQUIPMENT AND DEVICES SHOWN AS EXISTING OR AS REMOVE/RELOCATE SHALL BE PROTECTED AND HANDLED WITH APPROPRIATE CARE SO AS TO MAINTAIN FULL FUNCTIONAL AND AESTHETIC INTEGRITY OF THE DEVICE.

REMOVED EQUIPMENT AND SYSTEMS SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE NOTED. ALL MATERIALS NOT SALVAGED BY THE OWNER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR PROPER DISPOSAL.



- UPPERCASE LETTERING INDICATES FIXTURE TYPE. REFER TO LUMINAIRE SCHEDULE

- +## INDICATES FIXTURE MOUNTING HEIGHT FROM BOTTOM OF FIXTURE TO FINISHED FLOOR. COORDINATE ALL FIXTURE ELEVATIONS WITH ARCHITECTURAL RCP PRIOR TO ROUGH-IN AND SHOP SUBMITTALS.

- LOWERCASE LETTERING INDICATES SWITCH LEG. - SHADING AND/OR "EM#" INDICATES EMERGENCY OPERATION FIXTURE. NUMBER

INDICATES EMERGENCY CIRCUIT NUMBER. - TRANSFER DEVICE TYPE.

REFER TO LIGHTING CONTROLS SCHEDULE — INDICATES SWITCH LEG OUTPUT CIRCUIT

—— NORMAL (NO) AND EMERGENCY (EM) INPUT POWER SOURCES.

LIGHTING PLANS NOTATION KEY

## FIRE DETECTION AND ALARM SYMBOLS

F	MANUAL FIRE ALARM PULL STATION
\$	SMOKE DETECTOR
(S)	DUCT SMOKE DETECTOR
0	CARBON MONOXIDE DETECTOR
$\langle \mathbf{I} \rangle$	HEAT DETECTOR
X	COMBINATION HORN WITH STROBE - WALL MOUNTED
X	STROBE - WALL MOUNTED
AIM	ADDRESSABLE INPUT MODULE
AOM	ADDRESSABLE OUTPUT MODULE
FACP	FIRE ALARM CONTROL PANEL + EMERGENCY COMMUNICATIONS PANEL

## GENERAL SYMBOLS

J	JUNCTION BOX, CEILING OR FLOOR MOUNTED.
9	JUNCTION BOX, WALL MOUNTED, ELEVATION AS NOTED.
$\sim$	CIRCUIT HOMERUN, CONCEALED CONDUIT OR CABLE
(#)	KEYNOTE
$\left< \begin{array}{c} xxx \\ x \end{array} \right>$	EQUIPMENT IDENTIFICATION TAG. REFER TO EQUIPMENT CONNECTION SCHEDULE
1 A101 SIM	DETAIL DRAWING REFERENCE TAG, SIM-SIMILAR, TYP-TYPICAL, OPP-OPPOSITE SHEET REFERENCE

## **GROUNDING AND BONDING SYMBOLS**

- TMGB TELECOMMUNICATIONS MAIN GROUND BAR
- TELECOMMUNICATIONS GROUND BAR

SEE RISER DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

## TELECOMMUNICATIONS INFRASTRUCTURE SYMBOLS

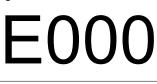
<b>#</b>	DATA CABLING - SEE SCHEDULE FOR EXACT REQUIREMENTS
	WIRELESS ACCESS POINT- SEE SCHEDULE FOR EXACT REQUIREMENTS
TV	CABLE TELEVISION LOCATION - RADIO GRADE CABLING

SEE RISER DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

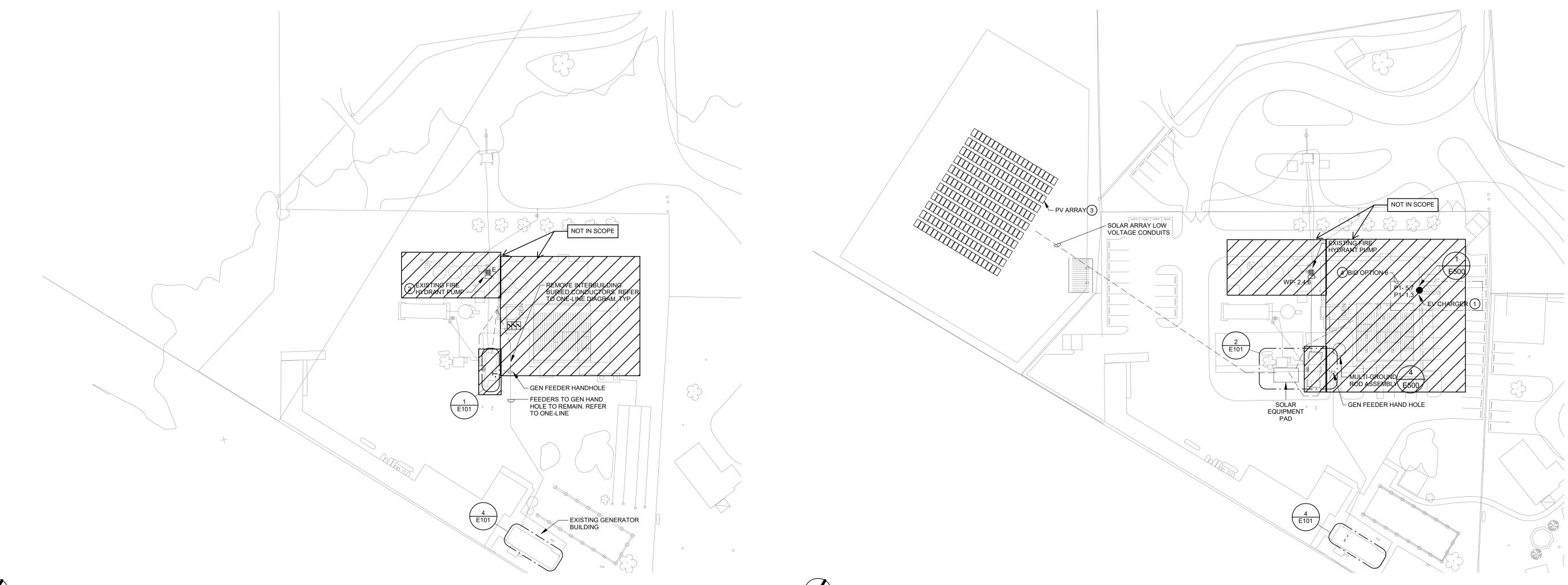
## ELECTRICAL ABBREVIATIONS

А	DEVICE MOUNTED +8" ABOVE	NIC	NOT IN CONTRACT
	COUNTER TOP (VERIFY LOCATION)	NM	NONMETALLIC
AFF	ABOVE FINISHED FLOOR	NTS	NOT TO SCALE
ATS	AUTOMATIC TRANSFER SWITCH	OC	ON CENTER
С	CEILING	OFCI	OWNER FURNISHED
ČВ	CIRCUIT BREAKER		CONTRACTOR INSTALLED
	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED,
Ē	EXISTING ITEM TO REMAIN		
EC		R	EXISTING ITEM TO BE REMOVED
EM		RR	EXISTING ITEM TO BE REMOVED AND
	NEW LOCATION OF EXISTING ITEM		RELOCATED
F	ROUGH IN FOR FUTURE DEVICE	RN	EXISTING ITEM TO BE REMOVED AND
FAAP	FIRE ALARM ANNUNCIATOR PANEL		REPLACED WITH NEW
FACP	FIRE ALARM CONTROL PANEL	SCCR	SHORT CIRCUIT CURRENT RATING
FSD	FIRE SMOKE DAMPER	Т	TAMPER PROOF DEVICE
G	GROUND FAULT CIRCUIT INTERRUPTER	TCC	TEMPERATURE CONTROL CONTRACTOR
GND	GROUND	ΤV	
KVA	KILO-VOLT-AMPERES	TYP	TYPICAL
KW	KILOWATTS	UPS	UNINTERRUPTIBLE POWER SUPPLY
MC	MECHANICAL CONTRACTOR	V	VOLTS
MCB	MAIN CIRCUIT BREAKER	VA	VOLT-AMPERES
MDP	MAIN DISTRIBUTION PANEL	WG	WIREGUARD COVER
MLO	MAIN LUGS ONLY	WP	WEATHERPROOF DEVICE
Ν	NEW DEVICE IN EXISTING LOCATION	WR	WEATHER RESISTANT DEVICE
		+24"	INDICATES MOUNTING HEIGHT CENTER
			LINE OF DEVICE TO FINISHED FLOOR

POWER S	VMBOLS		
0	DUPLEX RECEPTACLE, CEILING MOUNT	ENGINE	ERING
₽ ₽ <sup>G</sup>	DUPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED	4014 N Goldwat	er Blvd
¶ <sup>EWC</sup>	DUPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED DUPLEX RECEPTACLE, MOUNTED WITHIN WATER COOLER HOUSING, VERIFY HEIGHT.	Suite 203 Scottsdale, AZ,	·
	CONNECT TO GFCI, CIRCUIT BREAKER OR REMOTE WALL DEVICE.	480.666.0767	
₽ <sup>₩</sup>	IN-USE COVER, TAMPER-RESISTANT, WALL MOUNT +24", OR AS NOTED	info@kclengine	
<b>₩</b>	QUADRAPLEX RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED	SPIDICA T	ENO. Elect
 ₽	QUADRAPLEX GFCI RECEPTACLE, TAMPER-RESISTANT, WALL MOUNT +18", OR AS NOTED SPECIAL RECEPTACLE, WALL MOUNT +18", OR AS NOTED, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR RECEPTACLE TYPE	DANIEL BORGERD	ING
	EQUIPMENT CONNECTION, REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE	EXPIRES 06/3	/
•	EQUIPMENT CONNECTION, WALL MOUNT +18", OR AS NOTED, REFER TO ELECTRICAL		
	EQUIPMENT CONNECTION SCHEDULE FOR CONNECTION TYPE JUNCTION BOX, WITH PULL STRING, WALL MOUNT,		
Ψ	REFER TO PLAN OR DETAIL FOR MOUNTING HEIGHT		
s e	SURGE PROTECTIVE DEVICE		
	SAFETY DISCONNECT SWITCH		
5	VFD		
45	VFD WITH INTEGRAL DISCONNECT		
£	EMERGENCY PUSH BUTTON		
	PANELBOARD - SURFACE MOUNTED		
	PANELBOARD - RECESSED IN WALL		
	DISTRIBUTION PANELBOARD/SWITCHBOARD - SURFACE MOUNTED AS NOTED.		
6°\$	CORD REEL, CEILING MOUNTED - REFER TO DETAIL		
GEN	GENERATOR	ONS	
	GROUND RING	Ō	
		F	004
			86(
LIGHTING	SYMBOLS	Q	Ŋ
a	RECESSED LIGHT FIXTURE, LETTER INDICATES SWITCH LEG (TYPICAL), SHADING INDICATES EMERGENCY LIGHT (TYPICAL)		aff, ∕
0	ROUND LIGHT FIXTURE - SURFACE MOUNTED		st
	SURFACE MOUNTED STRIP FIXTURE	о Ш	lag
••	LINEAR PENDANT MOUNTED FIXTURE	P A	Ш Т
	WALL MOUNTED STRIP LIGHT FIXTURE.	С Ч С С	Rd
<u></u>	EMERGENCY LIGHT FIXTURE, WALL MOUNT, +96" OR AS NOTED	S С С	ddr
Þ <b>m</b> a	EMERGENCY LIGHT FIXTURE, CEILING MOUNT	R H	-eul
<u>₹</u>	EXIT SIGN, WALL MOUNT +96", SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS	μ	15
₩.	EXIT SIGN, CEILING MOUNT, SHADED AREAS INDICATE NUMBER OF FACES, ARROWS INDICATE SIGN ARROWS	$S \ge$	
Б	EXTERIOR LIGHT FIXTURE, WALL MOUNT +10', OR AS NOTED	Project No: Date:	KCL #21088 2021.10.31
Ю	INTERIOR LIGHT FIXTURE, WALL MOUNT	PERMIT SET	
	EXTERIOR FLOOD LIGHT FIXTURE, REFER TO LIGHT FIXTURE SCHEDULE	# Revision	Date
	CEILING FAN		
<b>\$</b> a	SINGLE POLE SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG		
<b>\$</b> <sup>3</sup> ь	THREE WAY SWITCH, WALL MOUNT +48", OR AS NOTED, LETTER INDICATES SWITCH LEG	Drawing Name:	
<sup>1</sup> ∲ <sub>c</sub>	OCCUPANCY SENSOR, WALL MOUNT +48" OR AS NOTED, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE	ELECTRICAL GE	
	OCCUPANCY SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE		
	DAYLIGHTING SENSOR, CEILING MOUNT, NUMBER INDICATES TYPE, LETTER INDICATES SWITCH LEG, REFER TO LIGHTING CONTROLS SCHEDULE		



Drawing #:





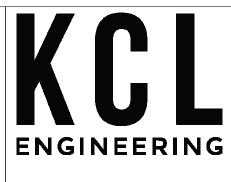
## KEYNOTES (#)

- PROVIDE AND INSTALL FULLY OPERATIONAL LEVEL 2 1 NETWORKED DUAL PORT PUBLIC USE CHARGING STATION EQUAL TO LEVITON EVR-GREEN 4000 SERIES CPHUS-BPMBX-CPCAPB-CPCBX-CPCMK. FREE STANDING BOLLARD TYPE WITH CONCRETE BASE MOUNTING KIT. NEMA 3R ENCLOSURE. DUAL CHARGING PORTS WITH INTEGRAL CABLE MANAGEMENT. CHARGEPOINT NETWORK SERVICE ENABLED WITH INTEGRAL LTE CELLULAR SIM CARD NETWORK CAPABLE. COLOR LCD DISPLAY AND RFID CARD READER. POWERED THROUGH (2) 208V 40A/2P SINGLE PHASE CIRCUITS. INTEGRAL SURGE SUPPRESSION. FULLY UL LISTED FOR APPLICATION. PROVIDE AS A COMPLETE PACKAGE INCLUDING ALL MANUFACTURER REQUIRED START-UP SERVICES, PROGRAMMING, STANDARD WARRANTY, AND 5 YEAR SERVICE PLAN WITH PURCHASE OF EQUIPMENT, BEGINNING AT SUBSTANTIAL COMPLETION.
- MAINTAIN EXISTING UNDERGROUND ELECTRICAL FROM 2 WELL PUMP BUILDING TO EXISTING HYDRANT PUMP. REFER TO ENLARGED PLANS AND ONE-LINE DIAGRAMS.
- PV ARRAY SHOWN IS FOR QUANTITY AND APPROXIMATE 3 LAYOUT ESTIMATION ONLY. FINAL RACKING LAYOUT REQUIREMENTS AND SPACING DETERMINED BY DELEGATED DESIGN SOLAR ENGINEER. MAINTAIN REQUIRED CLEARANCES/SPACES FOR OPTIMAL RADIANCE ABSORBTION. REFER TO SPECIFICATIONS AND DETAILS. MAINTAIN REQUIRED CLEARANCES TO GROUNDED SYSTEM PER NFPA 1.
- BID OPTION: BASE BID, PROVIDE CIRCUIT ROUGH-IN AND 4 CONDUIT STUB-UP TO LOCATION SHOWN FOR FUTURE EV CHARGER INSTALLATION. UNDER BID OPTION PROVIDE AND FULLY INSTALL EV CHARGER AS INDICATED.



## POWER GENERAL NOTES

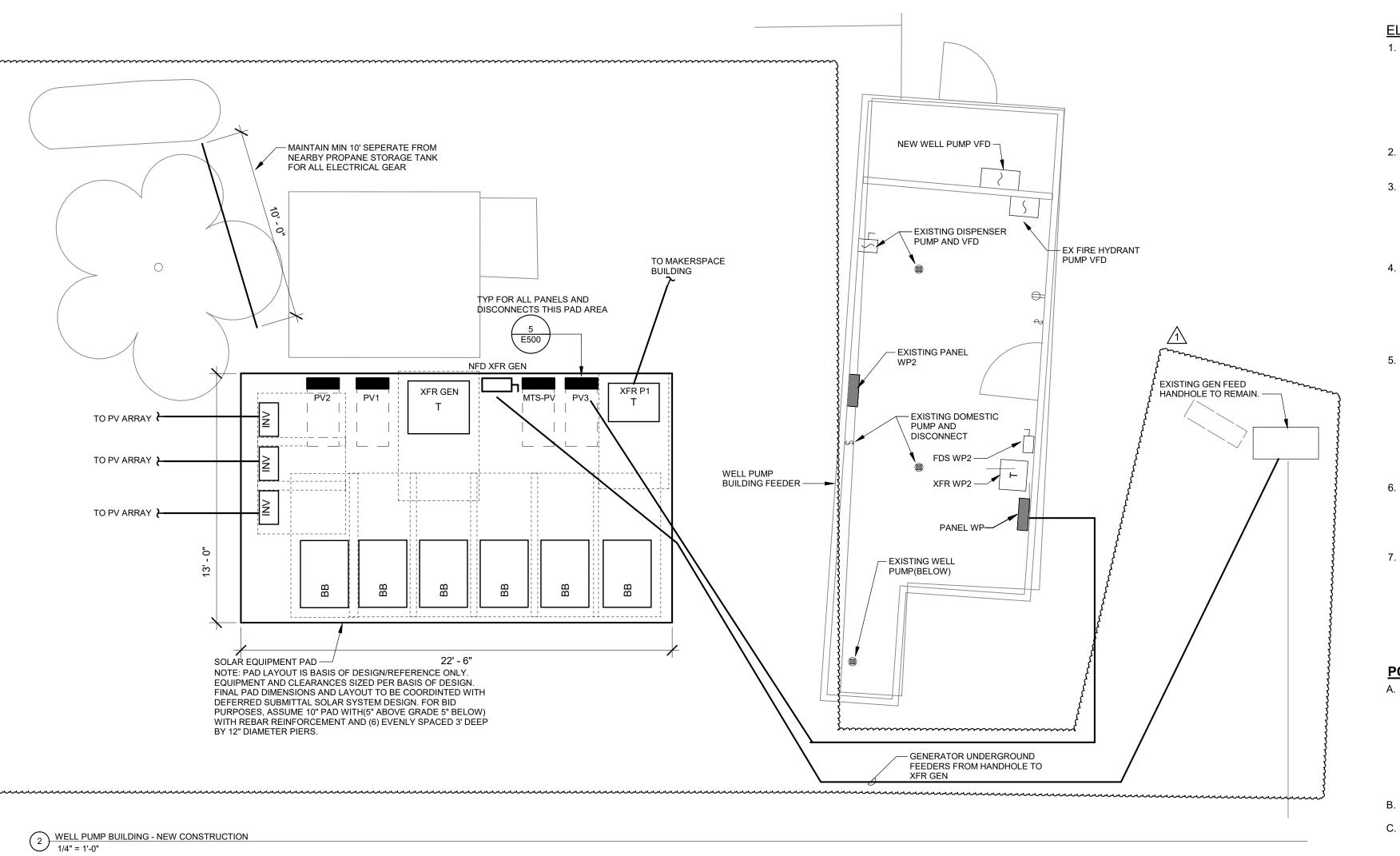
- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
  - COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

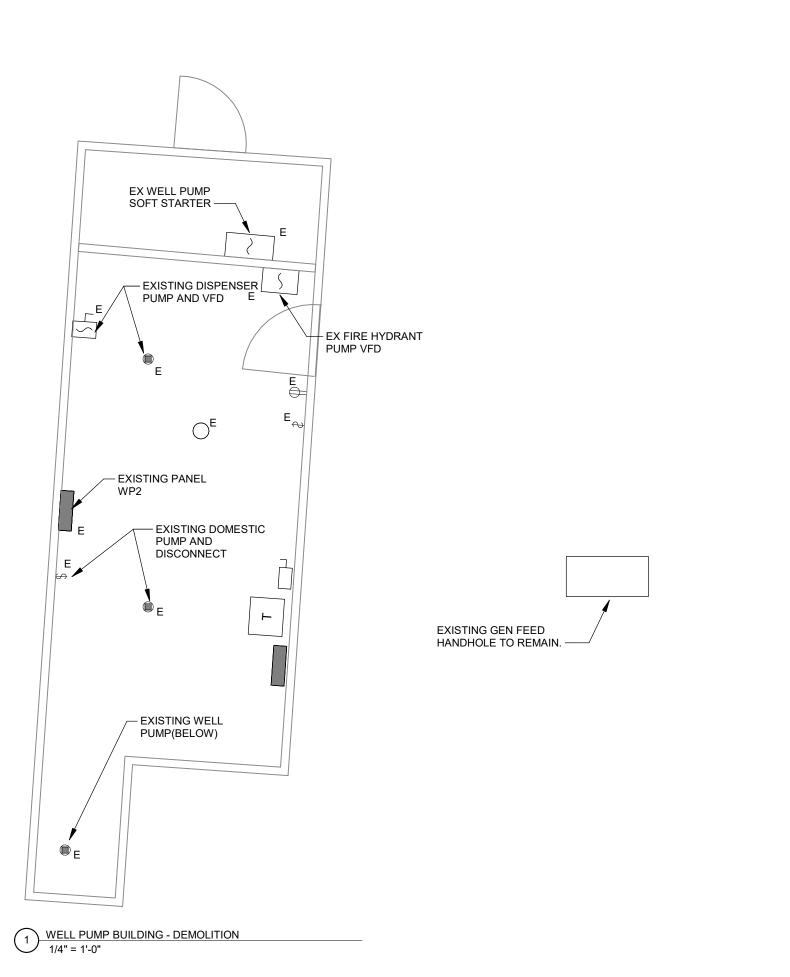


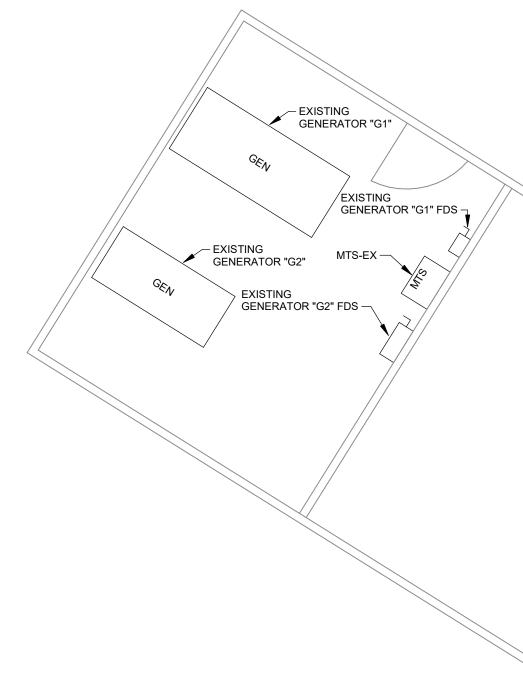
4014 N Goldwater Blvd, Suite 203 Scottsdale, AZ, 85251 480.666.0767 info@kclengineering.com











4 GENERATOR BUILDING - EXISTING CONDITIONS 1/4" = 1'-0"

## ELECTRICAL DEMOLITION NOTES

- 1. DEMOLITION DRAWINGS PRESENT LAYOUT OF EXISTING CONDITIONS AND MAJOR MECHANICAL/ELECTRICAL ITEMS. THEY ARE NOT TO BE CONSTRUED AS COMPLETE IN REPRESENTATION OF ACCESSORIES AND INCIDENTALS TO BE REMOVED, REPLACED, OR REWORKED. NOR SHOULD ACCESSIBILITY BE INFERRED. THE CONTRACTOR IS RESPONSIBLE TO FAMILIARIZE THEMSELVES WITH THE BUILDING AND EXISTING CONDITIONS, PRIOR TO THE SUBMITTING OF A BID FOR THIS PROJECT.
- 2. REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.
- THIS ELECTRICAL DEMOLITION DRAWING SHOWING EXISTING CONDITIONS HAS BEEN PREPARED BASED ON FIELD OBSERVATION AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS MAY EXIST WHICH DO NOT SHOW, AND SUCH ITEMS SHALL BE DEALT WITH IN A MANNER SIMILAR TO THOSE ITEMS WHICH DO SHOW. CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
  CONDUITS, BOXES, ETC., SHALL BE REMOVED AS REQUIRED BY
- WALL AND CEILING DEMOLITION AND REMOVALS. WIRING SHALL BE REMOVED. ALL WIRING FOR THE REMODELED AREAS SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE. ALL BRANCH CIRCUITS TO BE DISCONNECTED SHALL BE IDENTIFIED AS TO LOCATION OR ITEM SERVED BEFORE DISCONNECTING. CIRCUITS SERVING AREAS BEYOND THE IMMEDIATE DEMOLITION AREA SHALL BE MAINTAINED.
- CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH EXISTING ELECTRICAL SYSTEM WHICH WILL BE AFFECTED BY THE DEMOLITION WORK. CONTRACTOR SHALL OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE TO SHUT OFF SERVICES OR SYSTEMS WHICH MAY AFFECT OTHER AREAS BEYOND THE LIMITS OF THE IMMEDIATE DEMOLITION AREA. SUCH PERMISSION WILL BE GRANTED ONLY AFTER OWNER'S REPRESENTATIVE IS INFORMED OF THE REASON FOR AND DURATION OF THE SHUTDOWN AND IS SATISFIED THAT THE SHUTDOWN CAN BE MADE WITH AS LITTLE INCONVENIENCE TO OTHER AREAS AS POSSIBLE.
- PANELBOARDS, DISCONNECTS, FIXTURES, WIRING DEVICES, SIGNAL DEVICES, ETC., SHOWN ON PLANS SHALL BE REMOVED UNLESS NOTED OTHERWISE. REMOVAL SHALL BE DONE IN A TIMELY MANNER IN ACCORDANCE WITH THE GENERAL DEMOLITION WORK. COORDINATE WITH THE OWNER AND OTHER CONTRACTORS.
- ABBREVIATIONS: E - EXISTING ITEM TO REMAIN
  - ER NEW LOCATION OF EXISTING ITEM
  - N NEW ITEM IN EXISTING LOCATION
  - R EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
  - RN REPLACE EXISTING WITH NEW
  - RR EXISTING ITEM TO BE REMOVED AND RELOCATED

#### POWER GENERAL NOTES

- A. COORDINATE LOCATION/INSTALLATION OF MECHANICAL AND ELECTRICAL WORK WITH ALL OTHER TRADES. NO ASPECT OF A SYSTEM INSTALLATION OR ITS ROUGH-IN SHALL COMMENCE UNTIL PROPER AND TIMELY COORDINATION WITH ALL TRADES ASSOCIATED WITH THE INSTALLATION HAS TRANSPIRED. ITEMS TO BE COORDINATED SHALL INCLUDE BUT NOT BE LIMITED TO: BUILDING STRUCTURE, SHEET METAL, PIPING SYSTEMS, LIGHT FIXTURES, CONDUITS, CABLE TRAYS, ETC. REFER TO ALL GENERAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
  B. COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNITS
- COORDINATE ELECTRICAL REQUIREMENTS FOR MECHANICAL UNI WITH M.C. AND FINAL MECHANICAL SHOP DRAWINGS.
  C. PROVIDE PENETRATIONS REQUIRED FOR ROUTING RACEWAYS THROUGH THE BUILDING. COORDINATE FIRE RATED WALL PENETRATIONS AND PROVIDE CONDUIT SLEEVES AND FIRE STOPPING TO MAINTAIN RATING.

## KEYNOTES (#)

# Scottsdale, AZ, 85251 480.666.0767 info@kclengineering.com

4014 N Goldwater Blvd,

Suite 203

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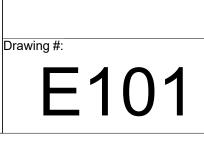
2021.10.31

Revision Addendum #2

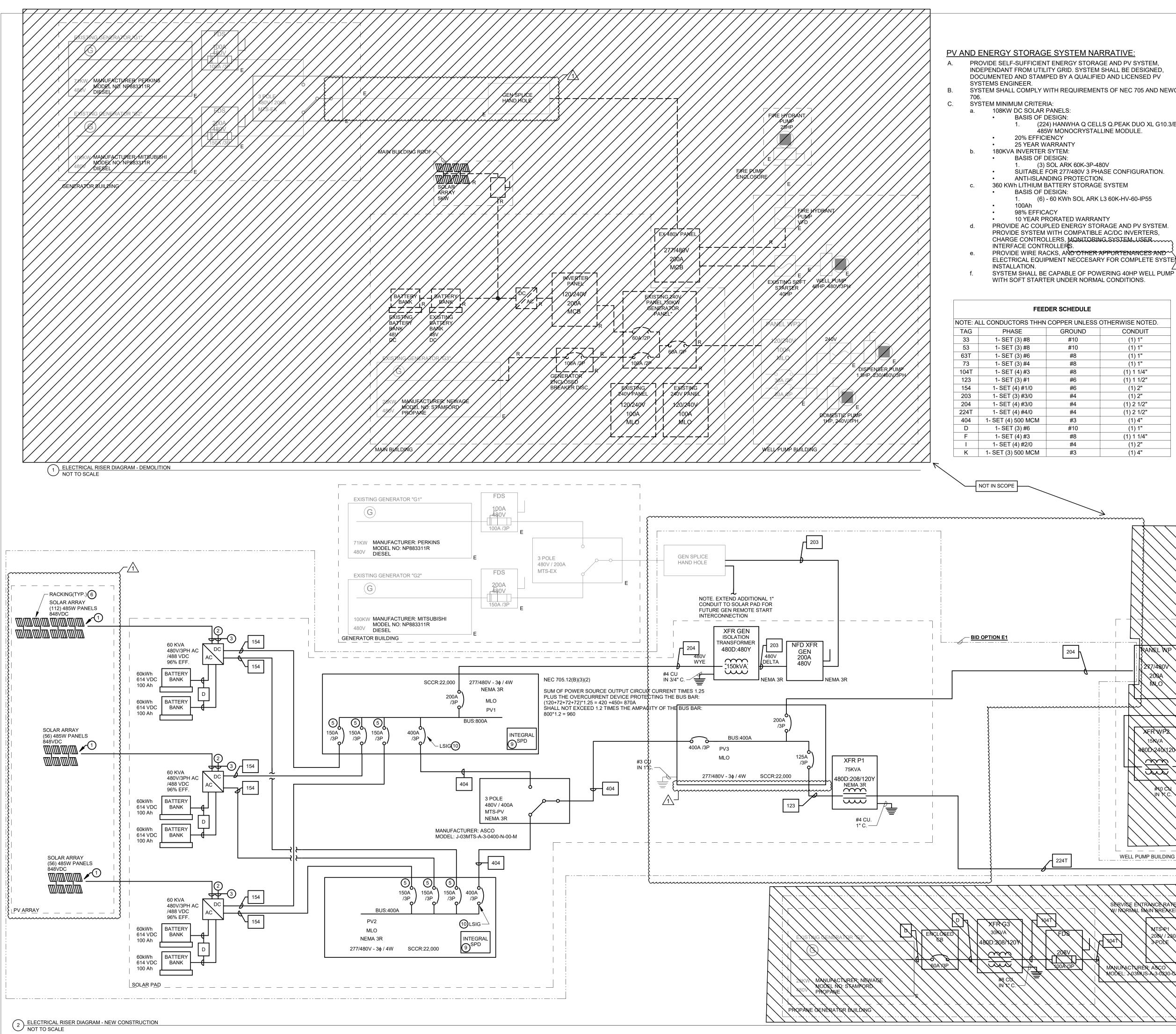
Date 2024.04.09

## Drawing Name: ELECTRICAL ENLARGED

FLOOR PLANS







STORAGE AND PV SYSTEM, YSTEM SHALL BE DESIGNED, UALIFIED AND LICENSED PV
REMENTS OF NEC 705 AND NEWC

#### (224) HANWHA Q CELLS Q.PEAK DUO XL G10.3/BFG 485W MONOCRYSTALLINE MODULE.

(6) - 60 KWh SOL ARK L3 60K-HV-60-IP55

## PROVIDE WIRE RACKS, AND OTHER APPURTENANCES AND

 $\overline{\Delta}$ SYSTEM SHALL BE CAPABLE OF POWERING 40HP WELL PUMP

OULE	
NLESS	OTHERWISE NOTED.
ND	CONDUIT
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	(1) 1"
	(1) 1"
	(1) 1"
	(1) 1 1/4"
	(1) 1 1/2"
	(1) 2"
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	(1) 2 1/2"
	(1) 2 1/2"
	(1) 4"
	(1) 1"
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	(1) 2"
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## **RISER DIAGRAM GENERAL NOTES**

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DIAGRAM INDICATES OVERALL LAYOUT OF ELECTRICAL DISTRIBUTION SYSTEM. REFER TO FLOOR PLANS FOR EQUIPMENT LOCATIONS.

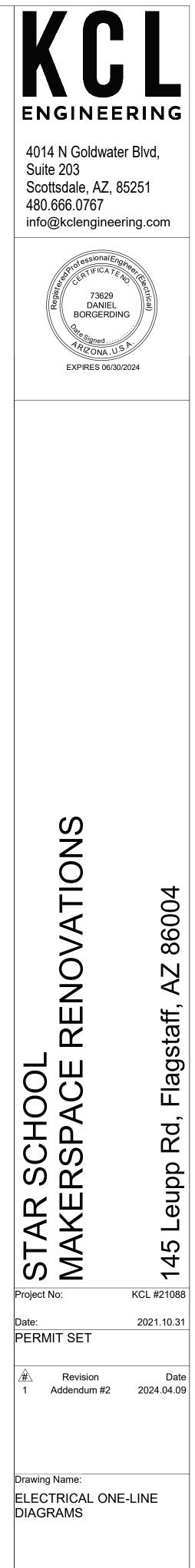
- USE COPPER CONDUCTORS UNLESS OTHERWISE INDICATED. MATCH NEUTRAL CONDUCTOR SIZE TO THE PHASE CONDUCTORS UNLESS OTHERWISE NOTED.
- ALL WIRING SHALL BE IN RACEWAY AS NOTED. REFER TO
- SPECIFICATIONS FOR CONDUIT APPLICATION REQUIREMENTS. INSTALL UTILITY TRANSFORMER PAD, METERING EQUIPMENT, AND SERVICE ENTRANCE FEEDERS IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS.

(#) RISER DIAGRAM KEYED NOTES:

- PROVIDE PV MODULES WITH DC ISOLATOR/DISCONNECT SWITCHES, QUANTITY OF ISOLATORS DETERMINED BY DESIGNER/PANEL MANUFACTURER BASED UPON MAXIMUM STRING LENGTH. PROVIDE MONITORING SYSTEM WITH WEB ACCESSIBLE
- INTERFACE INCLUDING COMPLETE SYSTEM EQUIPMENT LAYOUT, DEVICE CODES, MODULE/ARRAY LEVEL PERFORMANCE MONITORING, AND EXTRACTABLE DATA STORAGE. PROVIDE CABLES/CONDUIT SIZED PER MANUFACTURERS
- REQUIREMENTS AND LOCAL CODES. ROUTE IN EMT CONDUIT WHERE INTERIOR LOCATED, IMC CONDUIT WHERE EXTERIOR LOCATED. SIZE PANELBOARD BUS PER NEC
- ADJUST QUANTITY AND SIZE OF ENERGY STORAGE/PV SYSTEM OVERCURRENT DEVICES TO MATCH INVERTER RATINGS AND QUANTITY PROVIDED. PROVIDE SOLAR PV ARRAY RACKING EQUIPMENT AND INSTALLATION WITH PANEL ARRANGEMENT INSTALLED/OPTIMIZED FOR LOCAL CONDITIONS. MAINTAIN
- REQUIRED EQUIPMENT WORKING CLEARANCES. PROVIDE DC BUS BETWEEN BATTERY STORAGE SYSTEM AND GRID FORMING INVERTERS.
- PROVIDE ALL CODE REQUIRED GROUNDING AND BONDING FOR SOLAR SYSTEM INSTALLATION. FINAL REQUIREMENTS VERIFIED WITH SOLAR DESIGNER. PROVIDE PANEL WITH INTEGRAL SURGE PROTECTION
- DEVICE PER SPECIFICATIONS. PROVIDE BREAKERS EQUIPED WITH LSIG FUNCTION TO FACILITATE SELECTIVE COORDINATION.

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	XFR WP2 15%VA 80D:240(120 #0 CN IN % C.			\F \	2400 E DISRENS 1.5HP, 230 E DOMESTIC PUMP 1HR, 2400/1RH	SER RUMR DAGOV/SPH
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Drawing #:

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	VOLTAGE: 120/2080 PHASES: 3 WIRES: 4		MAINS RATI		4014 N Goldwate Suite 203 Scottsdale, AZ, 8 480.666.0767 info@kclenginee	<b>RING</b> er Blvd, 85251
AMP NO AMP NO 40 A 1 3120 40 A 3 40 A 7 3120 25 A 7 18 1638 25 A 18	A B 120 1080 560 1348 500 2560 1639 2500	C KT NO 3120 260 8 1348 560 12 1348 560 12 14 16 154 540 18	AMP P 20 x 1 20 x 1 20 x 1 20 x 1 20 x 1 20 x 1 20 x 1 30 x 5 20 x 1 1 20 x 1 20 x 1	CHRCHIT DESCR DISCT DETECT RECEPTACLE RECEPTACLE CE MAKER BOTTLING MACH WASHER DRYER RECEPTACLE	ANIEL BORGERDIN ARIZONA.US EXPIRES 06/30	9: eost (the critical) NG
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