

## **CRACKEL AND ESSMAN LIFT STATIONS** 240V, 3PH ONE LINE DIAGRAM NOT TO SCALE

ONE-LINE SCHEDULE									
	A	B	C	D	E	F	G		
LS NAME	VOLTS / PH / HP	WIRE AND CONDUIT SIZE	METER SOCKET RATING	WIRE AND CONDUIT SIZE	SERVICE ENTRANCE RATED MANUAL TRANSFER SWITCH SWITCHES/FUSE	WIRE AND CONDUIT SIZE	WIRE AND CONDUIT SIZE	MIN. CIRCUIT AMPS	
CRACLE LS	240V / 3 PH / 2 @ 15 HP	4#3/0, 2"C	PER AEP	4#3/0, 2"C	200 AMP / 125 AMP	3#2 + #8 GND, 1 ¼" C	3#1 + #6 GND, 1 ½" C	94.5	
ESSMAN LS	240V / 3 PH / 2 @ 15 HP	4#3/0, 2"C	PER AEP	4#3/0, 2"C	200 AMP / 125 AMP	3#2 + #8 GND, 1 ¼" C	3#1 + #6 GND, 1 ½" C	94.5	
ST. RT. 125 LS	240V / 3 PH / 2 @ 15 HP	4#3/0, 2"C	PER AEP	4#3/0, 2"C	200 AMP / 125 AMP	3#2 + #8 GND, 1 ¼" C	3#1 + #6 GND, 1 ½" C	94.5	

GI	ENERAL NOTES:	GE
1.	CONFORM TO THE NEC, OSHA, FIRE MARSHAL, BUILDING DEPARTMENT AND OTHER APPLICABLE CODES AND REGULATIONS.	1.
~	OBTAIN PERMITS, PAY ALL FEES, AND ARRANGE FOR REQUIRED INSPECTIONS.	
Ζ.	COMPLY WITH ALL GITY STANDARDS, UTILITY CO. REQUIREMENTS, SPECIFICATIONS, AND THE REQUIREMENTS OF THE CONTRACT	
2	AS SPECIFIED BY ENGINEER, PROJECT MANAGER OR OWNER. CONTACT OLDS VISIT SITE AND VEDIEVEVISTING CONDITIONS AND TAKE INTO CONSIDERATION IN RID	
J. ⊿	SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS INISTALL DER MANUEACTURERS AND PRODERLY AD ILIST AND	2
4.	START UP	۷.
5.	DRAWINGS ARE DIAGRAMMATIC. FIELD VERIFY EXISTING CONDITIONS AND CONNECTION POINTS PRIOR TO STARTING WORK.	
	FULLY COORDINATE WORK WITH OTHER TRADES. APPROVED SHOP DRAWINGS ARE TO BE CONSIDERED AS THE MEANS AND	
	METHODS OF INSTALLATION.	
6.	CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, CONSTRUCTION SEQUENCES, AND WORKERS	
	SAFETY.	
7.	PERFORM ALL DEMOLITION WORK REQUIRED FOR PROJECT AND DISPOSE OF DEMOLITION MATERIALS IN CODE APPROVED	
	MANNER.	
8.	ALL CUTTING, TRENCHING, BACKFILLING AND PATCHING OF EXISTING SURFACES INCIDENTAL TO THIS WORK SHALL BE	3.
	PERFORMED BY THIS CONTRACTOR. CUTTING AND PATCHING SHALL BE PERFORMED IN COMPLIANCE WITH THE PROJECT	
	REQUIREMENTS. ALL BELOW GRADE CONDUITS SHALL BE 24" BELOW GRADE.	
9.	ALL ELECTRICAL EQUIPMENT AND WIRING AND OTHER ELECTRICALLY CONDUCTIVE MATERIAL. LIKELY TO BECOME ENERGIZED	
	SHALL BE BONDED AND GROUNDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.	
10	). WIRES SHALL BE:	4.
	#12 AWS AND #10 SOLID OR STRANDED CONDUCTOR COPPER, 600V, TYPE THWN/THHN, WHHM OR THW (75/90 DEG. C)	
	#8 AWG TO AND INCLUDING #600 Kcmil AWG, STRANDED CONDUCTOR, 600V, TYPE THWN/THHN, WHHM OR THW (75/90 DEG. C)	
	COLOR CODE ALL WIRES PER N.E.C. GROUND CONDUCTORS SHALL BE GREEN. ALL WIRING SHALL BE I CONDUIT, RIGID	
	GALVANIZED STEEL ABOVE GRADE AND SCHEDULE 40 PVC BELOW GRADE.	_
11	I. ALL ELECTRICAL EQUIPMENT SHALL BE ULLISTED FOR THE PURPOSE AND ENVIRONMENT AND SHALL BE NOTED AS SUCH.	5.
12	2. 75 DEGREE C CONDUCTOR RATINGS HAVE BEEN APPLIED UP TO 100 AMPS. ALL EQUIPMENT TERMINATION PROVISIONS SHALL BE	
40	LISTED AND IDENTIFIED FOR USE WITH 75 DEGREE C CONNECTIONS PER N.E.C. 110-14C	
13	3. ALL EXISTING CIRCUITS REQUIRED TO REMAIN ACTIVE SHALL BE REWORKED OR MAINTAINED AS REQUIRED.	
14	ALL ELECTRICAL EQUIPMENT, DEVICES, CONDULT AND WIRING SHOWN ON THE ELECTRICAL DRAWINGS IS NEW UNLESS CLEARLY CALLED OUT AS EXISTING, ALL EXISTING ELECTRICAL FOLUDMENT THAT IS CALLED OUT TO BE DELISED SHALL BE INSPECTED IN	
	CALLED OUT AS EXISTING. ALL EXISTING ELECTRICAL EQUIPMENT THAT IS CALLED OUT TO BE REUSED SHALL BE INSPECTED IN	
	THE FIELD BY THE ELECTRICAL CONTRACTOR AND THE CONSTRUCTION MANAGER TO DETERMINE ITS CONDITION PRIOR TO STARTING ANY WORK, DROVIDE DOCUMENTATION TO OWNED INDICATING CONDITION OF THE EXISTING FOUNDMENT, AND DEUSE	
	EXISTING FOLIDMENT TO ALL DARTIES AGREE THE CONDITION IS ACCEPTABLE. ALL EXISTING FOLIDMENT DETERMINED TO BE	
	LINUSARI E SHALL BE REDLACED WITH LIKE KIND AS DIRECTED BY THE OWNER, ANY OF THE OWNERS FOUNDMENT DETERMINED	
	TO BE RELISED THAT IS DAMAGED BY ANY CONTRACTOR DURING SWITCHOVER SHALL BE REPLACED BY THAT CONTRACTOR ALL	
	EXISTING FOULIPMENT IS THE PROPERTY OF THE OWNER (NOT THE CONTRACTOR) AND SHALL F TREATED ACCORDINGLY	
15	5 ALL CABLES ARE TO BE CLEARLY MARKED WITH BRADY TYPE LABELS AND RECORD DRAWINGS SHALL INDICATED THE INDIVIDUAL	
.0	MARKINGS.	
16	5. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN THEIR BIDS A TOWABLE GENERATOR. THE GENERATOR SHALL BE SIZED TO	
. 0	OPERATE THE PUMPS (15HP, 240V, 3 PH), THE GENERATOR SHALL PROVIDE 240V, 3PH AND SHALL BE DIESEL FUELED, LIQUID	
	COOLED, TIER 4 COMPLIANT. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.	

# **ST. RT. 125 LIFT STATION** 240V, 3PH ONE LINE DIAGRAM

NOT TO SCALE

# ENERAL DEMOLITION NOTES:

- THE ELECTRICAL CONTRACTOR SHALL PERFORM ALL DEMOLITION OF EXISTING ELECTRICAL SYSTEMS AS DIRECTED BY THE CONTRACT DOCUMENTS FOR THE PROJECT REMOVE FROM SITE AND PROPERLY DISPOSE OF ALL MATERIAL AND DEBRIS FROM THIS WORK.
- IT IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO FIELD VERIFY EXISTING ELECTRICAL CONDITIONS, ONCE THE EXISTING ELECTRICAL CONDITIONS ARE FIELD VERIFIED, THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, ETC... CONTRACT DOCUMENTS FOR CONFLICTS THAT WILL REQUIRE REMOVAL, MODIFICATION OR RELOCATION OF EXISTING EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BIDS THE COST ASSOCIATED WITH THIS WORK.
- DISCONNECT EXISTING EQUIPMENT THAT IS TO BE REMOVED UNDER OTHER SECTIONS. REMOVE DATA AND PHONE CABLING SYSTEM AS DIRECTED BY THE PROJECT MANAGER. NO CABLES SHALL BE REMOVED OR CUT WITHOUT APPROVAL FROM PROJECT MANAGER. ANY EXISTING CABLES TO REWORKED AS NEEDED. THE OWNER RESERVES THE RIGHT TO SALVAGE FOR ALL EXISTING ELECTRICAL EQUIPMENT PRIOR TO DEMOLITION. THE CONTRACTOR SHALL REVIEW ALL MATERIALS AND DELIVER TO THE OWNER THOSE REQUIRED IN THEIR EXISTING CONDITION. ALL OTHER MATERIAL SHALL BE REMOVED BY THIS CONTRACTOR. ALL CIRCUITS WHICH ARE REQUIRED TO REMAIN ACTIVE SHALL BE MAINTAINED. ALL CIRCUITS SHALL BE VERIFIED WITH EXISTING DRAWINGS AND ACTUAL FIELD CONDITIONS PRIOR TO BEGINNING DEMOLITION.

# |--1'-6"

- EQUIPMENT.

