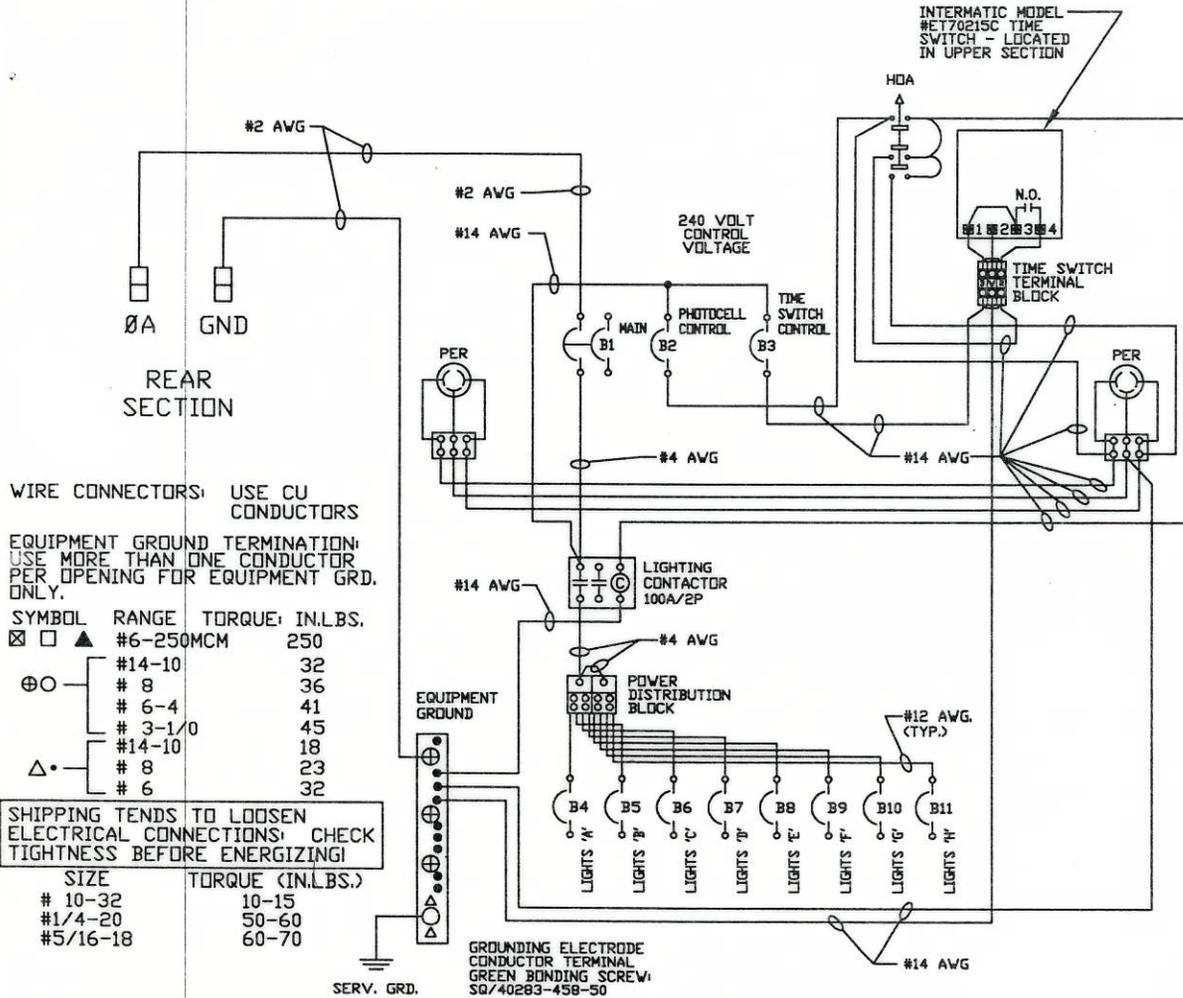


SERVICE DISCONNECT 100 AMPS OR LESS, 22KAIC; CUTLER-HAMMER/WESTINGHOUSE TYPE QCHW OR QHCX; G.E. TYPE THHQC.
 CIRCUIT BREAKERS 100 AMPS OR LESS; SQUARE D/CUTLER-HAMMER/WESTINGHOUSE TYPE GHC. OR QHCX; G.E. TYPE THQC OR THHQC.

SHORT CIRCUIT RATING; RMS SYMMETRICAL AMPS 14,000 AT 240/480 VAC. THE SHORT CIRCUIT RATING IS LIMITED TO THE LOWEST INTERRUPTING CAPACITY OF ANY DEVICE INSTALLED. REPLACEMENT BREAKERS MUST BE SAME TYPE AND RATING. FIELD INSTALLED CONDUCTORS SHOULD BE SIZED BASED ON 60°C AMPACITY FOR 14-1 AWG AND 75°C AMPACITY OVER 1 AWG PER TABLE 310-16 OF NEC.

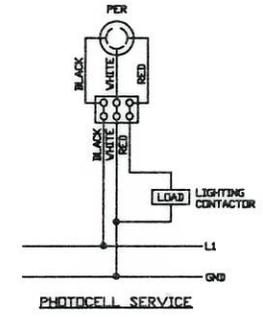
DWG CK: *WJ* DWG CK: *R* DWG CK:

PLEASE REFER ALL INQUIRIES TO OUR SHOP ORDER NUMBER ESI-09-112-ES1



POWER WIRING #2/1 WILL BE RED WIRE
 #6 GAUGE WIRE AND SMALLER WILL HAVE RED INSULATION
 #4 GAUGE WIRE AND LARGER WILL BE TAPED RED AT LEAST 6" ABOVE LUG
 NEUTRAL WIRING WILL BE WHITE WIRE
 #6 GAUGE WIRE AND SMALLER WILL HAVE WHITE INSULATION
 #4 GAUGE WIRE AND LARGER WILL BE TAPED WHITE AT LEAST 6" ABOVE LUG
 240 VAC 1 PHASE 2 WIRE 100 AMPS MAXIMUM
 SEE MAIN BREAKER HANDLE
 INDUSTRIAL CONTROL-SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT.
 RAINPROOF TxDOT TYPE 3R.

CIRCUIT DIRECTORY			
NO.	DESCRIPTION	AMP	POLE
B1	MAIN	100	2
B2	PHOTOCELL CONTROL	15	1
B3	TIME SWITCH CONTROL	15	1
B4	LIGHTS 'A'	15	1
B5	LIGHTS 'B'	15	1
B6	LIGHTS 'C'	15	1
B7	LIGHTS 'D'	15	1
B8	LIGHTS 'E'	15	1
B9	LIGHTS 'F'	15	1
B10	LIGHTS 'G'	15	1
B11	LIGHTS 'H'	15	1



IF CIRCUIT BREAKER TRIPS, HANDLE WILL BE IN INTERMEDIATE POSITION. TO RESTORE POWER TURN TO FULL OFF, THEN ON

240 VOLT 1Ø 1 - HOT
 1 - GROUND
 1 - #6 BOND

WIRE CONNECTORS: USE CU CONDUCTORS

EQUIPMENT GROUND TERMINATION: USE MORE THAN ONE CONDUCTOR PER OPENING FOR EQUIPMENT GRD. ONLY.

SYMBOL	RANGE	TORQUE (IN.LBS.)
☒	#6-250MCM	250
☐	#14-10	32
⊕	# 8	36
⊖	# 6-4	41
⊙	# 3-1/0	45
⊚	#14-10	18
△	# 8	23
△	# 6	32

SHIPPING TENDS TO LOOSEN ELECTRICAL CONNECTIONS; CHECK TIGHTNESS BEFORE ENERGIZING!

SIZE	TORQUE (IN.LBS.)
# 10-32	10-15
#1/4-20	50-60
#5/16-18	60-70

CITY OF ARLINGTON, TX.

COUNTY: TARRANT
PROJECT:
C.S.J.#
HIGHWAY:

ELECTRICAL SERVICE DATA: N/A
 SERVICE LOCATION:
 ROGERS ST. BRIDGE @ ROGERS RD.

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CONTRACTOR: MEL'S ELECTRIC	FILE: M1\DWG002009	REVISION: NO REVISION	REVISION DATE:
DATE: 30 JAN 09	PROJECT: TxDOT TYPE A-SPECIAL - PS TYA-SPL(240)100(NS)AL(E)PS(U)	TITLE: DIAGRAM POWER & CONTROL WIRING	REFERENCE #
DRAWN BY: MJJ	ELECTROL SYSTEMS, INC. 433 RECOLETA SAN ANTONIO, TX 78216 [210] 599-6485		ESI-09-112-13-ES1
SCALE: NTS			