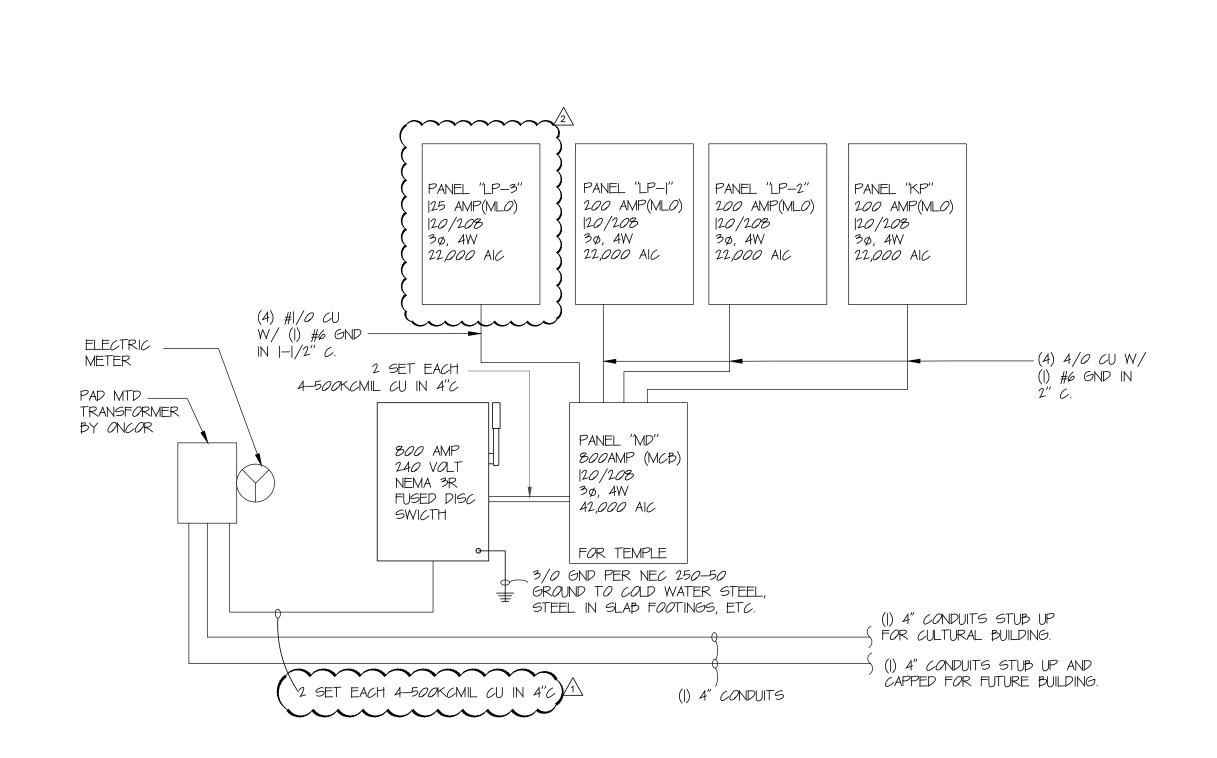
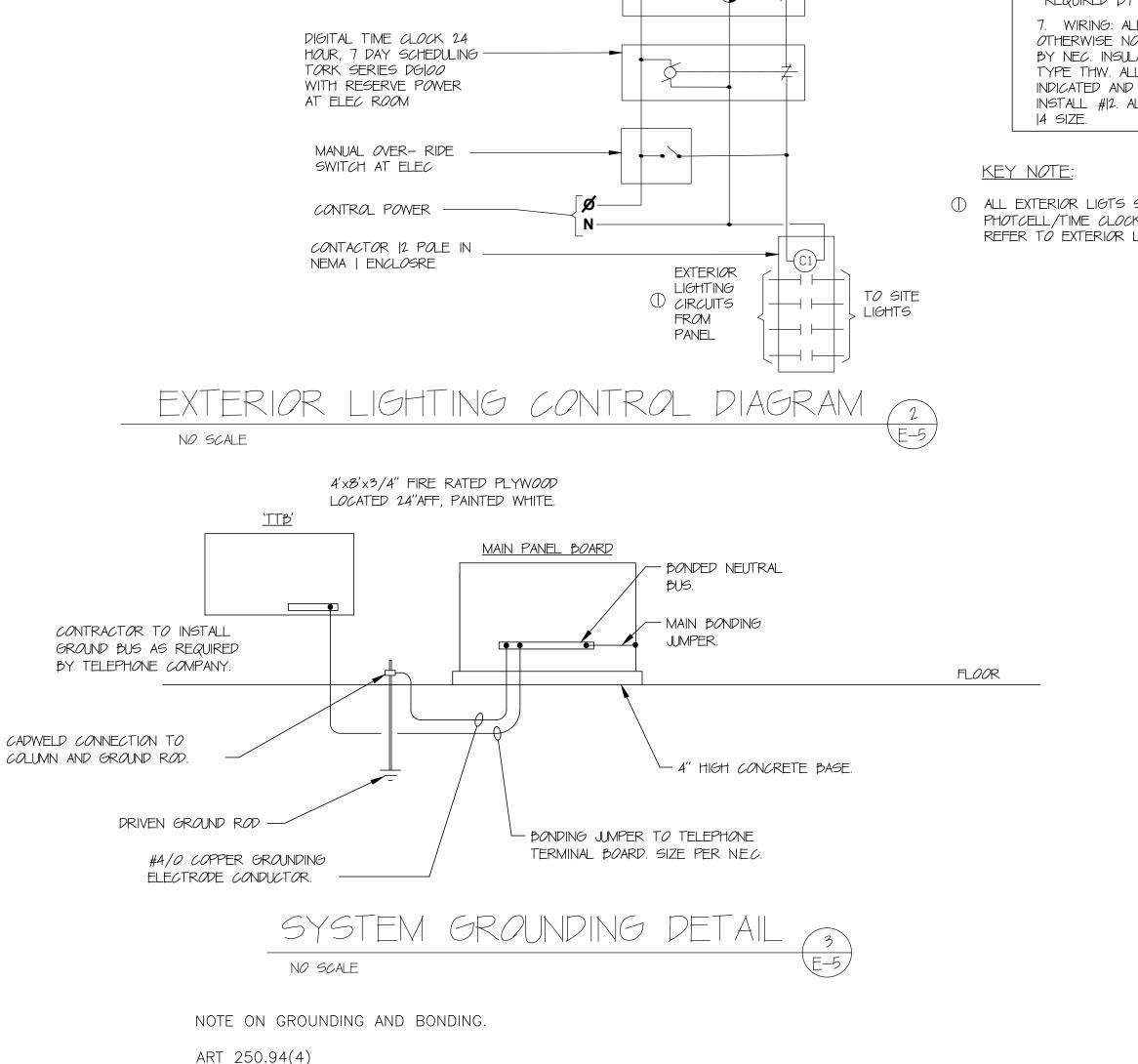
CRC NO.	Pales	LOAD SERVED		42,000 AIC PHASE LOAD VA			LOAD SERVED		CRC NO.	POLI & AMP
	AMPS.			ABC						
1	3/200	PANEL "LP	-1"	7000 7000	>		- R	TU#1-1	2	3/8
3				7000	7000 7000	>			4	
5		V			, o o o	7000 7000	\	V	6	
7	3/200	PANEL "LP	-2" <	7000 7000	>	7000	R.	TU#1-2	8	3/8
9					7000 7000	>	-		10	
11		V			<	7000 7000	>		12	
13	3/200	PANEL "K	P" <	7000 7000	>		R.	TU#1-3	14	3/8
15					7000 7000	>			16	
17		†				7000 7000	>	•	18	
19	3/150	ELEVATO	R <	8000 2000	>		R.	TU#2-1	20	3/
21					8000 2000	>			22	
23		\psi				8000 2000	\	•	24	
25	3/60	RTU#2-!	5 <	2500 5000	>		R.	TU#2-2	26	3/
27					2500 5000	>			28	
29		\				2500 5000			30	
31	3/125	PANEL "LP	-3" <	5000	>		R	TU#2-3	32	3/0
33					5000				34	
35		\				5000		•	36	
37	3/100	SPARE		5000			R	TU#2-4	38	3/
39					5000				40	
41						5000			42	
			TOTAL	69500	69500	69500				

LOAD : <u>RADHA KRISHNA TE</u>	-MPI F							
120 /208 VOLTS, 3 Pt		60 HERT7						
PROJECT: RADHA KRISHN	DATE:							
LOCATION: ALLEN, TEXAS	BY: M. WAHEED							
ITEM	CONNECTED	DEMAND	DEMAND					
		VA	FACTOR	VA	AMPS			
LIGHTING		14,000	1.25	17,500				
HVAC		105,000	1.00	105,000				
GENERAL OUTLET		9,000	1.0	9,000				
ELEVAT <i>O</i> R		15, <i>000</i>	1.00	25,000				
KITCHEN EQUIPMENT		30,000	0.6	18,000				
MISC.		35,000	1.0	35,000				
	T <i>O</i> TAL			209,500				
TOTAL DEMAND LOAD = $\frac{20}{10}$								
TOTAL DEMAND AMPS = $58 $ AMPS SWITCHBOARD MINIMUM: $58 * .25 = 726$ AMPS								
REMARKS:								



ELECTRICAL RISER DIAGRAM



THE INTERSYSTEM BONDING TERMINATION SHALL BE MOUNTED ON THE BOTTOM OF THE ENCLOSURE USING NUT/BOLT AND

LOCK WASHER. TECH SCREWS ARE PROHIBITED.

PHOTOELECTRIC CELL

*O*N R*OO*F

ELECTRICAL SPECIFICATIONS:

I. SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO FURNISHED AND INSTALLED IN ALL EMPTY COMPLETE INSTALLATION FOR ELECTRICAL POWER AND LIGHTING SERVICE WITHIN THE AREA DESCRIBED ON THE DRAWINGS. ALL WORKS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND APPLICABLE ORDINANCES, REGULATIONS, AND CODES OF THE CITY ORDINANCE, AND THOSE OF STATE OF TEXAS.

2. FEES AND PERMITS: THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES WHICH ARE REQUIRED FOR THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS.

- 3. GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE FULLY GUARANTEED FOR THE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK. DURING THIS PERIOD ALL PARTS FOUND TO BE DEFECTIVE SHALL REPLACED WITHOUT COST OF THE OWNER.
- 4. UTILITIES: ELECTRICAL POWER AND TELEPHONE SERVICES SHALL BE EXTENDED TO POINTS OF SERVICE CONNECTIONS AT THE APPROXIMATE LOCATIONS SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF THESE SERVICES WITH THE UTILITY COMPANIES. VERIFY POINTS OF CONNECTION, PAY ALL ASSOCIATED CONNECTION FEES.
- 5. GROUNDING: ALL ELECTRICAL EQUIPMENT INSTALLED ON THIS PROJECT SHALL BE PROPERLY BREAKERS. GROUNDED IN STRICT ACCORDANCE WITH SECTION 250 OF THE NEC.
- 6. RACEWAYS AND FITTINGS: ALL WIRING, EXCEPT AS OTHERWISE NOTED SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT WITHIN THE BUILDING SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING
- CONNECTIONS TO EQUIPMENT MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT AS ALLOWED BY CODE. WHEREVER FLEXIBLE CONDUIT IS USED IN DAMP OR OUTDOOR LOCATIONS IT SHALL BE RATED LIQUID TIGHT AND SHEATED WITH A VINYL COVER. FITTINGS SHALL BE LIQUID TIGHT. RACEWAYS INSTALLED IN CONCRETE OR BURIED BELOW GRADE, AND SERVICE ENTRANCE CONDUIT SHALL BE FABRICATED FROM RIGID GALVANIZED STEEL CONDUIT. UNDERGROUND CONDUIT MAY BE FABRICATED FROM UPVC, ALL APPROVED PLASTIC CONDUIT, INSTALLED WITHOUT CONCRETE ENCASEMENT WHEN ALLOWED BY CODE. ALL CONDUIT AND FITTINGS SHALL BE APPROVED AND ALL LABELS, AND SHALL BE INSTALLED AS REQUIRED BY *CODE.*
- 7. WIRING: ALL CONDUCTORS, EXCEPT WHERE OTHERWISE NOTED SHALL COPPER AS REQUIRED BY NEC. INSULATION SHALL BE COLORING CODED TYPE THW. ALL WIRE SIZES SHALL BE SIZED AS INDICATED AND WHERE NO SIZES ARE SPECIFIED INSTALL #12. ALL CONTROL WIRING SHALL BE #

8. PULL WIRES: PULL WIRE SHALL BE CONDUITS AND SHALL 50 POUND TEST NYLON CORD. LABEL EACH TERMINATION.

9. OUTLET BOXES AND COVERS: ALL OUTLET BOXES INSIDE THE BUILDING SHALL BE GALVANIZED, PRESSED STEEL TYPE, EXCEPT WHERE OTHERWISE REQUIRED. INSTALL SECTIONAL TYPE BOXES IN GYPBOARD WALLS AND MASONRY TYPE BOXES IN MASONRY WALLS. ALL JUNCTION BOXES AND PULL BOXES SHALL BE EQUIPPED WITH BLACK COVERS. ALL FLUSH MOUNTED BOXES LOCATED INSIDE THE BUILDING SHALL BE EQUIPPED WITH AN IVORY COLORED PLASTIC COVER PLATE UNLESS OTHERWISE NOTED. WALL PLATE IN ROOMS WITH WOOD PANELING SHALL BE STAINED TO MATCH THE COLOR OF THE WALL OF THE WALL BOXES FOR ALUMINUM AND SHALL HAVE THREADED CONDUIT ENTRANCES, WATERPROOF TYPE, AND ADJUSTABLE POLISHED BRASS COVER PLATE.

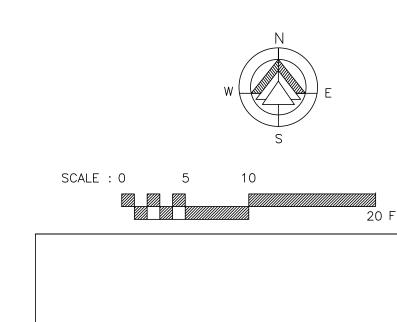
O. WIRING DEVICES: SWITCHES SHALL BE ARROW-HART #1991-SL-1 AS REQUIRED, OR EQUAL BY HUBBELL, PASS & SEYMOUR, SIERRA OR BRYANT. RECEPTACLES SHALL BE ARROW-HART #5262-| OR EQUAL BY SWITCH MANUFACTURER. ALL ACCESSIBLE RECEPTACLES IN RESTROOMS, JANITOR CLOSETS, KITCHENS, OR OUTDOOR RECEPTACLES SHALL BE G.F.I. TYPE OR PROTECTED BY G.F.I. CIRCUIT

II. TELEPHONE AND COMPUTER CONDUIT SYSTEM: FURNISH AND INSTALL AN EMPTY 3/4 INCH CONDUIT FROM EACH TELEPHONE AND COMPUTER WALL OUTLET TO 12" ABOVE THE CEILING. COORDINATE THE TELEPHONE SYSTEM INSTALLATION WITH THE TELEPHONE COMPANY.

12. PANELBOARDS: PANELBOARDS SHALL BE OF THE CIRCUIT BREAKER TYPE WITH TIN PLATED ALUMINUM BUSSING SIZED AS SHOWN ON THE PLAN AS MANUFACTURED BY GENERAL ELECTRIC OR SQUARE D. ALL PANELBOARDS SHALL USE BUILT-IN TYPE CIRCUIT BREAKERS FOR AIR CONDITIONING EQUIPMENT SHALL BE 'HACR' TYPE. APPROVED MANUFACTURERS: GENERAL ELECTRIC OR SQUARE D.

13. SAFETY SWITCHES: SAFETY SWITCHES SHALL CONSIST OF A BOX. HINGED LOCKING COVER, AND CIRCUIT PROTECTOR DEVICES, AND SHALL BE MANUFACTURED IN ACCORDANCE WITH NEMA STANDARDS AND SHALL BEAR APPLICABLE ALL LABEL. SWITCHES SHALL BE FUSED OR NON-FUSED. WITH AMPERAGE RATING AND NUMBER OF POLES AS SCHEDULED. APPROVED MANUFACTURERS: GENERAL ELECTRIC OR SQUARE D.

(1) ALL EXTERIOR LIGTS SHALL BE CONTROLLED BY PHOTCELL/TIME CLOCK/MAUAL OVERRIDE SWITCH. REFER TO EXTERIOR LIGHTING CONTROL DIAGRAM.



rev 2 10-09-2016 ADDED SPARE PANEL

rev ⚠ 11-05-2015 CITY COMMENTS date 10-05-2015 RELEASE FOR CONSTRUCITON

ELECTRICAL RISER AND PANEL SCHEUDLE

ALLEN TEXAS

AS NOTED scale

drawn by CADD-NV

WAHEED CONSULTING

CONSULTANT:

M.A. WAHEED

CONSTRUCTION DOCUMENT PHASE

MECHANICAL-ELECTRICAL-PLUMBING SYSTEM DESIGNS RADHA KRISHNA TEMPLE Registration No. F-6336

420 PARKSIDE ST. MURPHY, TX,75094

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