RT. PANEL "Z" TYPE NEHB

CIRCUIT WATTAGE #A	#B	#C	USE	LOAD-TYPE LTG	RC	HT	MO	CB	CB	LOAD-TYPE LTG	RC	HT	MO	USE	CIRCUIT WATTAGE #A	#B	#C
3790			A/C 3					50/3	1 2					A/C 3	3790		
	3790								3 4							3790	
		3790						1/3	5 6								3790
3790			A/C 3					50/3	7 8					A/C 3	3790		
	3790								9 10					SPARE		3790	
		3790						1/3	11 12	1/3							3790
3790			A/C 3					50/3	13 14	50/3				A/C 3	3790		
	3790								15 16					SPARE		3790	
		3790						1/3	17 18	1/3							3790
			SPACE					1/3	19 20	1/3				SPACE			
									21 22								
									23 24								
									25 26								
									27 28								
									29 30								
1370	1370	1370	SUB-TOTAL							SUB-TOTAL					1370	1370	1370

LOAD SUMMARY: LIGHTING ____ RECEPTACLE ____ HEATING ____ MOTOR ____ TOTAL ____ TOTAL AMPS 11370 / 12394 / 68

VOLTS 277/480Y 3Ø 4W MAIN 100/3
FEEDER 4 #3 AWG CU + #8 GRD. GND.
BUS 1200A CU. MTG SURFACE

SYSTEM SHORT CIRCUIT RATING (SYM)

RT. PANEL "Y" TYPE NEHB

CIRCUIT WATTAGE #A	#B	#C	USE	LOAD-TYPE LTG	RC	HT	MO	CB	CB	LOAD-TYPE LTG	RC	HT	MO	USE	CIRCUIT WATTAGE #A	#B	#C
3900			A/C 1					50/3	1 2					A/C 1	3900		
	3900								3 4							3900	
								1/3	5 6								3900
			SPACE					1/3	7 8					SPARE			
									9 10								
									11 12								
									13 14								
									15 16								
									17 18								
									19 20								
									21 22								
									23 24								
									25 26								
									27 28								
									29 30								
3900	3900	3900	SUB-TOTAL							SUB-TOTAL					3900	3900	3900

LOAD SUMMARY: LIGHTING ____ RECEPTACLE ____ HEATING ____ MOTOR ____ TOTAL ____ TOTAL AMPS 11700 / 12394 / 68

VOLTS 277/480Y 3Ø 4W MAIN 100/3
FEEDER 4 #3 AWG CU + #8 GRD. GND.
BUS 1200A CU. MTG SURFACE

SYSTEM SHORT CIRCUIT RATING (SYM)

PANEL "X" TYPE NEHB

CIRCUIT WATTAGE #A	#B	#C	USE	LOAD-TYPE LTG	RC	HT	MO	CB	CB	LOAD-TYPE LTG	RC	HT	MO	USE	CIRCUIT WATTAGE #A	#B	#C
3790			A/C 3					50/3	1 2					A/C 3	3790		
	3790								3 4							3790	
		3790						1/3	5 6								3790
3790			A/C 3					50/3	7 8					A/C 3	3790		
	3790								9 10					SPARE		3790	
		3790						1/3	11 12	1/3							3790
3790			A/C 3					50/3	13 14	50/3				A/C 3	3790		
	3790								15 16					SPARE		3790	
		3790						1/3	17 18	1/3							3790
			SPACE					1/3	19 20	1/3				SPACE			
									21 22								
									23 24								
									25 26								
									27 28								
									29 30								
1370	1370	1370	SUB-TOTAL							SUB-TOTAL					1370	1370	1370

LOAD SUMMARY: LIGHTING ____ RECEPTACLE ____ HEATING ____ MOTOR ____ TOTAL ____ TOTAL AMPS 11740 / 11370 / 82

VOLTS 277/480Y 3Ø 4W MAIN 150/3
FEEDER 4 #1 AWG CU + #4 GRD. GND.
BUS 1200A CU. MTG SURFACE

SYSTEM SHORT CIRCUIT RATING (SYM)

RT. PANEL "W" TYPE NEHB

CIRCUIT WATTAGE #A	#B	#C	USE	LOAD-TYPE LTG	RC	HT	MO	CB	CB	LOAD-TYPE LTG	RC	HT	MO	USE	CIRCUIT WATTAGE #A	#B	#C
3790			A/C 3					50/3	1 2					A/C 3	3790		
	3790								3 4							3790	
		3790						1/3	5 6								3790
3790			A/C 3					50/3	7 8					A/C 3	3790		
	3790								9 10							3790	
		3790						1/3	11 12	1/3							3790
3900			A/C 1					50/3	13 14	50/3				A/C 2	2796		
	3900								15 16							2796	
								1/3	17 18	1/3							2796
			SPACE					1/3	19 20	1/3				SPACE			
									21 22								
									23 24								
									25 26								
									27 28								
									29 30								
1460	1460	1460	SUB-TOTAL							SUB-TOTAL					1540	1540	1540

LOAD SUMMARY: LIGHTING ____ RECEPTACLE ____ HEATING ____ MOTOR ____ TOTAL ____ TOTAL AMPS 14620 / 14620 / 80

VOLTS 277/480Y 3Ø 4W MAIN 150/3
FEEDER 4 #1 AWG CU + #4 GRD. GND.
BUS 1200A CU. MTG SURFACE

SYSTEM SHORT CIRCUIT RATING (SYM)

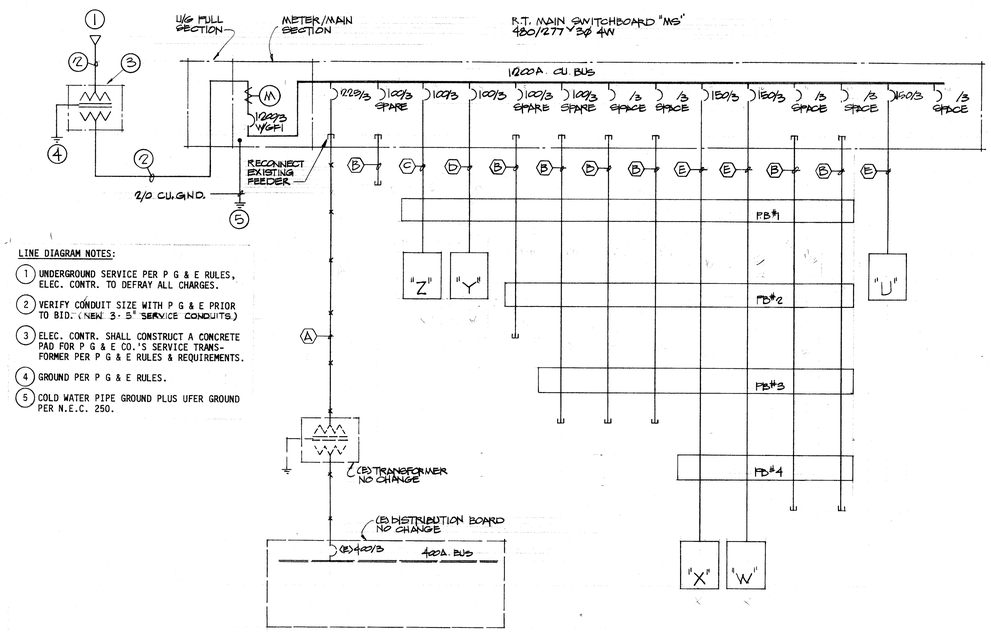
RT. PANEL "U" TYPE NEHB

CIRCUIT WATTAGE #A	#B	#C	USE	LOAD-TYP LTG	RC	HT	CB	CB	LOAD-TYP LTG	RC	HT	USE	CIRCUIT WATTAGE #A	#B	#C
3790			A/C 3				50/3	1 2				A/C 3	3790		
	3790							3 4						3790	
		3790					1/3	5 6							3790
3790			A/C 3				50/3	7 8				A/C 3	3790		
	3790							9 10				SPARE		3790	
		3790					1/3	11 12							3790
3790			A/C 3				50/3	13 14				A/C 3	3790		
	3790							15 16				SPARE		3790	
		3790					1/3	17 18							3790
			SPACE				1/3	19 20				SPACE			
								21 22							
								23 24							
								25 26							
								27 28							
								29 30							
												SUB-TOTAL	11370	11370	11370

LOAD SUMMARY: LIGHTING ____ RECEPTACLE ____ HEATING ____ MOTOR ____ TOTAL ____ TOTAL AMPS 11370 / 12749 / 82

VOLTS 277/480Y 3Ø 4W MAIN 150/3
FEEDER 4 #1 AWG CU + #4 GRD. GND.
BUS 1200A CU. MTG SURFACE

SYSTEM SHORT CIRCUIT RATING (SYM)



LINE DIAGRAM NOTES:

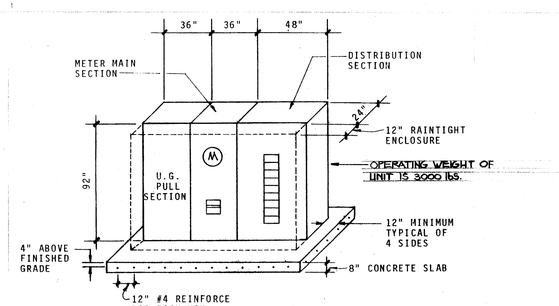
1. UNDERGROUND SERVICE PER P G & E RULES, ELEC. CONTR. TO DEFRAY ALL CHARGES.
2. VERIFY CONDUIT SIZE WITH P G & E PRIOR TO BID. (NEW 3-5" SERVICE CONDUITS.)
3. ELEC. CONTR. SHALL CONSTRUCT A CONCRETE PAD FOR P G & E CO.'S SERVICE TRANSFORMER PER P G & E RULES & REQUIREMENTS.
4. GROUND PER P G & E RULES.
5. COLD WATER PIPE GROUND PLUS UFER GROUND PER N.E.C. 250.

FEEDER SCHEDULE:

- (A) EXISTING FEEDER, RECONNECT AS SHOWN.
- (B) 1-1/2" CONDUIT EMPTY, STUB AND CAP AT BOTH ENDS.
- (C) 2" CONDUIT, FOUR #1 AWG COPPER PLUS ONE #6 COPPER GROUND.
- (D) 1-1/2" CONDUIT, FOUR #2 COPPER PLUS ONE #6 COPPER GROUND
- (E) 2-1/2" CONDUIT, FOUR #3/0 AWG COPPER PLUS ONE #4 COPPER GROUND.

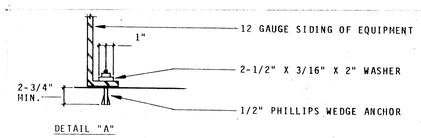
ONE LINE DIAGRAM (1/E-3)

N.T.S.



SWITCHBOARD ELEVATION (3/E-3)

N.T.S.



DETAIL "A"

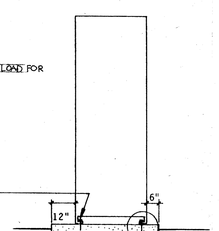
NOTE: ON SITE TESTS REQUIRED FOR 50% OF EXPANSION BOLTS

MINIMUM 1000 POUNDS PULL OUT LOAD FOR 1/2" BOLTS

SWITCHBOARD

PHILLIPS WS1242 1/2" WEDGE ANCHOR AT EACH CORNER WITH 2-1/2" X 3/16" X 2" WASHER. LOCATE MAXIMUM OF 2" FROM ENDS. (TOTAL OF 4 ANCHORS PER SECTION AT "MCC" OR SWITCHBOARDS).

CONCRETE PAD AS REQUIRED ACCORDINGLY TO EQUIPMENT PHYSICAL DIMENSIONS



SWITCHBOARD MTG. DETAIL (2/E-3)

N.T.S.

NO.	REVISION	DATE	BY

APPROVED FIRE AND PANIC ONLY
APR 4 1991
STATE FIRE MARSHALL SOUTHERN REGION

FIRE MARSHAL
TITLE 24 C.C.R. 1988 UBC

IDENTIFICATION STAMP
Department of General Services
Office of the State Architect
APR 4 1991
Structural Safety Section
Appl. # A 55660
Checked By J.P. / L.A.

O.S.A.

GLENN E. HARTZELL — REGISTERED ARCHITECT — No. C-10298 — RCN DATE OCT 31 1991 — STATE OF CALIFORNIA

Glenn Hartzell A.I.A.
26 'H' STREET, 93304 (805) 324-6416
P.O. BOX 2344, 93303, BAKERSFIELD, CALIFORNIA
ARCHITECT C-10298 DATE 1-4-91

BAKERSFIELD CITY SCHOOL DISTRICT
BY RESOLUTION OF THE BOARD OF TRUSTEES
APPROVED: ____ DATE ____

INTERSTATE ENGINEERING, INC.
Structural Engineers
127 East Belmont Ave.
Fresno, Ca 93701
(209) 445-1151

DATE 1-11-91 | DRAWN FV

ELECTRICAL PANEL SCHEDULES ~ ONE LINE DIAGRAM ~ DETAILS ~ NOTES

(AIR CONDITIONING)
HORT SCHOOL
BAKERSFIELD CITY SCHOOL DISTRICT
2301 PARK DRIVE, BAKERSFIELD, CALIFORNIA

JOB NO. 142

SHEET NO. E3

SHEET 3 OF 4