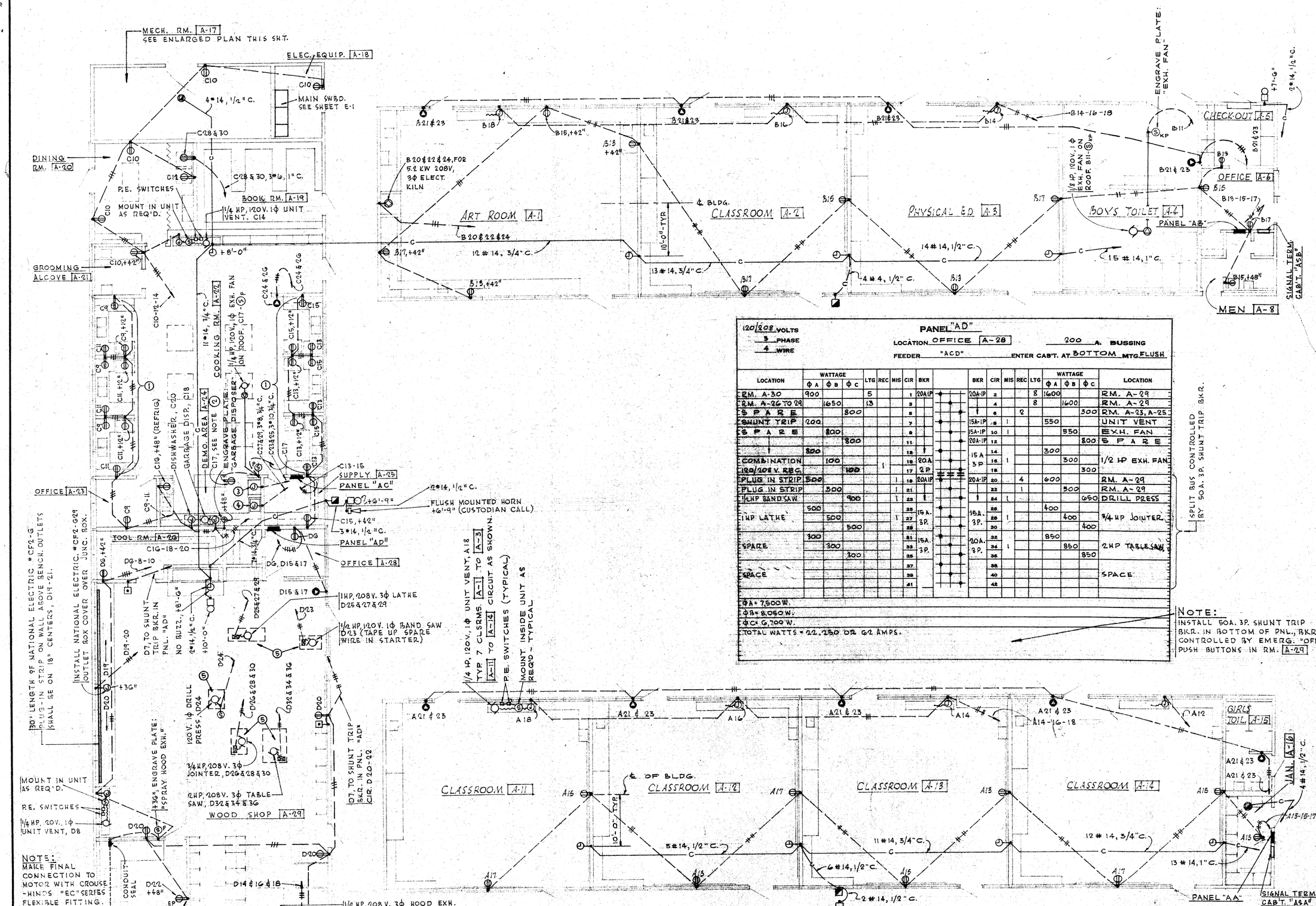


PANEL "AA"

120/208 VOLTS, 3 PHASE, 4 WIRE — LOCATION: JANITOR A-16 — 200 A. BUSSING — FEEDER: "ABA" — ENTER CAB'T. AT: BOTTOM — MTG: SURF.

LOCATION	WATTAGE ϕA	ϕB	ϕC	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE ϕA	ϕB	ϕC	LOCATION
RM. #14, 15, 16	1100			10		1	1	20A 1P		20A 1P	2			G	1100			RM. #12
RM. #13		1200		G			3				4			G		1200		RM. #11
RM. #12			1200	G			5				6			G			1200	RM. #10
RM. #11	1100			G			7				8			G	1100			RM. #9
SPARE		800					9				10	1		12		1800		OUTSIDE
SPARE			800				11			3A 1P	12	1					550	UNIT VENT
RM. #1, 2, 3, 5, 6	450				3		13				14	1			550			
RM. #4, 11, 5, 6		450			3		15				16	1				550		
RM. #8, 11, 12, 14			450		3		17				18	1					550	
SPARE	800						19				20				800			SPARE
COMBINATION		500				5	21	20A		20A 1P	22					800		SPARE
120/208 V. REC.			500				23	2P			24						550	
SPACE							25				26							SPACE
							27				28							
							29				30							
							31				32							
							33				34							
							35				36							
							37				38							
							39				40							
							41				42							

ϕA = 7,900 W.
ϕB = 7,300 W.
ϕC = 6,050 W.
TOTAL WATTS = 21,250 OR 59 AMPS.

INSTALL 35A. 1P TIME SWITCH @ TOP OF PANEL UNDER SEPARATE, HINGED, LOCKABLE DOOR, A10.

PANEL "AB"

120/208 VOLTS, 3 PHASE, 4 WIRE — LOCATION: OFFICE A-6 — 200 A. BUSSING — FEEDER: "ABA" — ENTER CAB'T. AT: BOTTOM — MTG: FLUSH

LOCATION	WATTAGE ϕA	ϕB	ϕC	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE ϕA	ϕB	ϕC	LOCATION
RM. #14, 6, 8, 9	1750			14	1	1	1	20A 1P		20A 1P	2			G	1400			RM. #12
RM. #7		1200		G			3				4			G		800		RM. #13
RM. #5			1200	G			5				6			G			1600	RM. #11
OUTSIDE	1800			12	1		7				8			G	1600			RM. #4
SPARE		800					9				10					800		SPARE
EXH. FAN			400			1	11	15A 1P			12						800	SPARE
RM. #1, 2, 3,	800			4			13	20A 1P		15A 1P	14	1			550			UNIT VENT
RM. #10, 12, 13, 14		600		4			15				16	1				550		
RM. #4, 12, 3, 6			600	4			17				18						550	
SPARE	800						19				20				1750			
COMBINATION		500		4			21	20A 2P		20A 3P	22	1				1750		ELEC. KILN
120/208 V. REC.			500				23				24						1750	
SPACE							25				26							SPACE
							27				28							
							29				30							
							31				32							
							33				34							
							35				36							
							37				38							
							39				40							
							41				42							

ϕA = 10,050 W.
ϕB = 7,400 W.
ϕC = 7,400 W.
TOTAL WATTS = 24,850 OR 69 AMPS.
PROVIDE DOUBLE LUGS FOR EXTENSION OF FEEDER TO PANEL "AA"

INSTALL 35A. 1P TIME SWITCH @ TOP OF PANEL UNDER SEPARATE, HINGED, LOCKABLE DOOR, B7.

PANEL "AD"

120/208 VOLTS, 3 PHASE, 4 WIRE — LOCATION: OFFICE A-28 — 200 A. BUSSING — FEEDER: "ACD" — ENTER CAB'T. AT: BOTTOM — MTG: FLUSH

LOCATION	WATTAGE ϕA	ϕB	ϕC	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE ϕA	ϕB	ϕC	LOCATION
RM. A-30	900			5			1	20A 1P		20A 1P	2			8	1600			RM. A-29
RM. A-26 TO 29		1650		13			3				4			8		1400		RM. A-29
SPARE			800				5				6	2					300	RM. A-23, A-25
SHUNT TRIP	200						7			15A 1P	8	1			550			UNIT VENT
SPARE		800					9			15A 1P	10	1				550		EXH. FAN
	800						11			20A 1P	12						800	SPARE
COMBINATION		100			1		13	20A 2P			14				300			
120/208 V. REC.			100			1	15			15A 3P	16	1				300		1/2 HP EXH. FAN
PLUG IN STRIP	500					1	17	20A 1P			18						300	
PLUG IN STRIP		500				1	19				20	4			600			RM. A-29
1 HP BAND SAW			900			1	21				22	1				500		RM. A-29
	500						23	15A 3P			24						690	DRILL PRESS
1 HP LATHE		500				1	25			15A 3P	26	1			400			
			500				27				28					400		3/4 HP JOINTER
	300					1	29	15A 3P			30					400		
SPARE		300					31			20A 3P	32	1			850			
			300				33				34	1				850		2 HP TABLE SAW
							35				36						850	
SPACE							37				38							SPACE
							39				40							
							41				42							

ϕA = 7,500 W.
ϕB = 8,050 W.
ϕC = 6,700 W.
TOTAL WATTS = 22,250 OR 62 AMPS.

SPLIT BUS CONTROLLED BY 50A. 3P. SHUNT TRIP BKR.

NOTE:
INSTALL 50A. 3P. SHUNT TRIP BKR. IN BOTTOM OF PNL., BKR. CONTROLLED BY EMERG. "OFF" PUSH BUTTONS IN RM. A-29

PANEL "AC"

120/208 VOLTS, 3 PHASE, 4 WIRE — LOCATION: SUPPLY A-25 — 200 A. BUSSING — FEEDER: "ACD" — ENTER CAB'T. AT: BOTTOM — MTG: FLUSH

LOCATION	WATTAGE ϕA	ϕB	ϕC	LTG	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG	WATTAGE ϕA	ϕB	ϕC	LOCATION
RM. A-22	1500			8			1	20A 1P		20A 1P	2	1		8	1250			OUTSIDE
RM. A-22		1400		7			3				4					500		SPARE
RM. A-11 TO A-19			1500	10			5				6						550	
RM. A-20, 21, 23, 13, 24	1500			10	1		7				8				500			
RM. A-22		750			5		9				10	1	5			750		RM. A-17, 18, 20, 21
			750		5		11			15A 1P	12	1					650	WASHER
	750				5		13				14	1			550			UNIT VENT
		750			5		15				16					650		REFRIG.
RM. A-27, EXH. FAN	500		700		1	1	17				18	1					550	DISPOSER
MECH. CONTROL	500						19				20				650			DISHWASHER
SPARE		500					21			20A 1P	22					500		SPARE
OVEN			4400			1	23	50A 2P		20A 2P	24						100	COMBINATION
	2400						25				26		3		100			120/208 V. REC.
RANGE TOP		3500				1	27	40A 2P		30A 2P	28	1			1500			
			3500				29				30		1				4500	DRYER
SPACE							31				32							SPACE
							33				34							
							35				36							
							37				38							
							39				40							
							41				42							

ϕA = 10,000 W.
ϕB = 14,500 W.
ϕC = 15,450 W.
TOTAL WATTS = 40,250 OR 112 AMPS.
PROVIDE DOUBLE LUGS IN PANEL FOR EXTENSION OF FEEDER TO PANEL "AD"

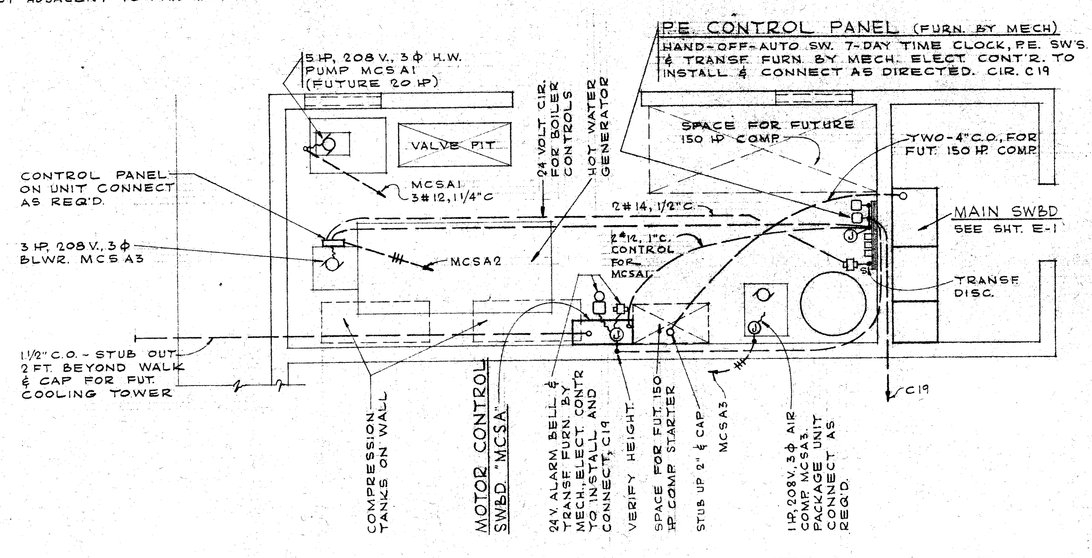
INSTALL 35A. 1P TIME SWITCH @ TOP OF PANEL WITH SEPARATE, HINGED, LOCKABLE DOOR, C2

NOTE:

PROVIDE SPACE IN MOTOR CONTROL SWBD. "MCSA" FOR FUTURE 20 HP, TWO-SPEED STARTER & BREAKER.

REFERENCE NOTES:

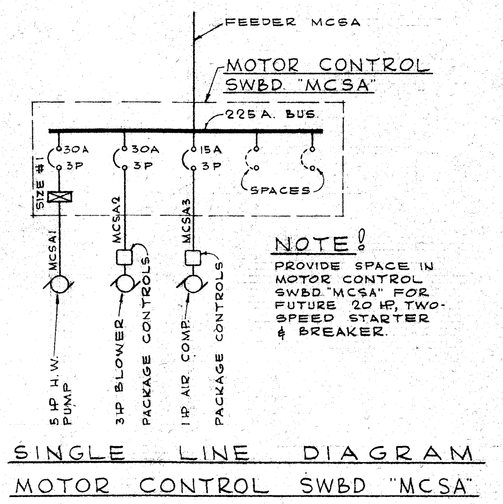
1. INSTALL RECEPTACLES HORIZONTALLY IN SPLASH @ +30" EXCEPT AS NOTED.
2. RECEPTACLE FURNISHED & INSTALLED BY THIS CONT'R. MOUNT IN DEMO. TABLE AS DIRECTED BY ARCH.
3. FOR 4.8 KW. 208V. 1ϕ BUILT-IN OVEN. C23 & 25, VERIFY OUTLET LOCATION.
4. FOR 7 KW. 208 V. 1ϕ COOKING TOP. C27 & 29. VERIFY OUTLET LOCATION.
5. THIS ELEC. CONT'R SHALL VERIFY THE EXACT LOCATION OF SHOP EQUIP. WITH OWNER BEFORE INSTALLATION OF ANY CONDUIT, CONTROLLING DEVICES ARE FURN. WITH EQUIP. BY OTHERS.



ENLARGED PLAN — MECH. RM. A-17

SCALE: 1/4" = 1'-0"

NORTH



SINGLE LINE DIAGRAM MOTOR CONTROL SWBD "MCSA"

UNIT "A" — POWER & SIGNAL PLAN

SCALE: 1/8" = 1'-0"

NORTH

ELECTRICAL ENGINEER
FOSTER K. SAMPSON
REGISTRATION # 2-4

STATE OF CALIFORNIA — DEPARTMENT OF PUBLIC WORKS — DIVISION OF ARCHITECTURE
JS 168 APPROVED OCT 22 1959
BY E. Wrang

ARCHITECTS
Warren Wright 2-277
F-261
DATE: OCT 20 1959

WRIGHT METCALF & PARSONS
Architects A.I.A.
2323 E STREET • PHONE 4-6418 • P.O. BOX 3344
BAKERSFIELD: CALIFORNIA

DATE:

BAKERSFIELD CITY SCHOOL DISTRICT BOARD OF EDUCATION APPROVED:
DATE: OCT 26 1959

DATE: OCT 26 1959
DRAWN BY: R.S., J.G. W.H.A.
CHECKED BY: R.P.R.

UNIT "A" POWER & SIGNAL PLAN

NEW JUNIOR HIGH SCHOOL
WOOD LANE & REAL ROAD
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, CALIFORNIA

JOB NO. 404
SHEET NO. E-3

DIETZGEN-POST CLEARPRINT 10001