















































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














LIGHT FIXTURES

	CEILING SURFACEMOUNT
	WALL SURFACEMOUNT
	PENDANT MOUNT
	RECESSED DOWNLIGHT
	RECESSED WALLWASH
	RECESSED FLUOR
	SURFACE FLUOR
	FLUOR. STRIP UON
	TRACK LIGHT
	DIRECTIONAL FLOOD
	EMERGENCY FIXTURE
	POLE LIGHT
	POLE LIGHT-DECORATIVE
	UPLIGHT-FLUSH IN GRADE
	BOLLARD
	TANDEM-WIRED LAMPS
	UNDERCABINET LIGHT
	WALL SURFACEMOUNT LINEAR TYPE
	PENDANT LINEAR FLUOR
	RECESSED WALLMOUNT
	WALLPACK
	EXIT LIGHT-WALL
	EXIT LIGHT-CEILING (ARROW INDICATES DIRECTION)
	LETTER ADJACENT INDICATES FIXTURE TYPE













POWER/COMM

	SINGLE RECEPT
	DUPLEX RECEPT
	DUPLEX-HALF SWITCHED
	DOUBLE DUPLEX
	SPECIAL CONFIGURATION
	FLOORMOUNT 208V, 1ø RECEPT
	DUPLEX-FLOOR OUTLET
	GROUND FAULT CIRCUIT INTERRUPT
	JUNCTION BOX
	SPECIAL SYSTEM JUNCTION BOX
	TELEPHONE OUTLET
	DATA OUTLET
	PHONE/DATA COMBO OUTLET
	TELEVISION OUTLET
	SAFETY DISCONNECT
	DROP CORD RECEPT
	ABOVE-CLOMOUNT J-BX
	TV OUTLET-FLOORMOUNT
	TELEPHONE FLOOR OUTLET
	DATA FLOOR OUTLET
	WIRELESS ACCESS POINT IN CEILING
	MOUNT DEVICE ABOVE COUNTER PER ARCHITECTURAL REQUIREMENTS



















CONDUIT/WIRE













	NEW
	UNDERGROUND
	NEW POWER HOMERUN (3 HOTS & NEUT SHOWN)
	ISOLATED GROUND
	ISOLATED GROUND
	(E) POWER HOMERUN
	WIRE LINE-CONTINUES
	CONDUIT STUB (W/MARKER)
	VERTICAL CONDUIT RUN
	CONDUIT SEAL
	FLEXIBLE CONNECTION
	LOW VOLTAGE
	SURFACEMOUNT RACEWAY
	INDICATES LINE CONTINUES
	CORD W/PLUG

FIRE ALARM

	NORN-AUDIBLE DEVICE
	VISUAL-VISUAL DEVICE
	AUDIBLE/VISUAL
	FLOW SWITCH
	TAMPER SWITCH
	MANUAL PULL STATION
	SMOKE DETECTOR
	DUCT SMOKE DETECTOR
	HEAT DETECTOR
	BELL
	END OF LINE RESISTOR
	CHIME

MISCELLANEOUS

	MOTOR
	THERMOSTAT
	CIRCUIT BREAKER
	FUSIBLE SWITCH
	GROUND
	PHASE
	CLOCK
	CLOCK/SPEAKER COMBINATION
	WALL MOUNTED CLOCK
	PUSHBUTTON
	FLUSHMOUNT PANEL
	SURFACEMOUNT PANEL
	FLUSHMOUNT PANEL
	SURFACEMOUNT PANEL
	DAMPER MOTOR
	HUMIDISTAT
	MAGNETIC CONTACTOR
	COMBINATION STARTER

	SPST
	DPST
	3-WAY
	4-WAY
	DIMMER
	TIMER SWITCH
	W/THERMAL OVERLOAD
	W/PILOT LIGHT
	KEY OPERATED
	DUAL LEVEL SWITCHING
	SWITCHLEG DESIGNATION
	OCCUPANCY SENSOR

SWITCHES

GENERAL LIGHTING PLAN NOTES

- DUAL LEVEL SWITCHING: IN ROOMS 100 SQ. FT. OR LARGER, OR WHERE INDICATED ON PLANS, CONTROL INBOARD LAMPS BY ONE SWITCH AND OUTBOARD LAMPS BY OTHER SWITCH
- NIGHT LIGHT (NL) DESIGNATED LUMINARIES IN INTERIOR LOCATIONS SHALL HAVE ONE BALLAST CONTINUOUSLY ENERGIZED. LUMINARIES IN EXTERIOR LOCATIONS SHALL BE AUTOMATICALLY CONTROLLED TO BE ON FROM DUSK TO DAWN
- LIGHTING FIXTURE LOCATIONS SHOWN ARE SCHEMATIC. REFER TO ARCHITECTURAL PLANS (REFLECTED CEILING, ELEVATIONS, ETC.) FOR EXACT LOCATIONS AND MOUNTING HEIGHTS PRIOR TO ROUGH-IN
- REFER TO ARCHITECT'S REFLECTED CEILING PLAN(S) FOR CEILING HEIGHTS, TYPES, FINISHES, ETC. IN EACH AREA. VERIFY FLANGE TYPES, TRIM KITS, STEM LENGTHS, ETC. FOR ALL FIXTURES PRIOR TO SUBMITTALS.
- CONFIRM LOCATION OF ALL DOORS SWINGS WITH ARCHITECTURAL PLANS PRIOR TO ROUGH-IN OF SWITCHES.
- PROVIDE UNSWITCHED HOT LEG OF ROOM LIGHTING BRANCH CIRCUIT TO EACH BATTERY POWERED EMERGENCY LIGHT AND EXIT SIGN FOR CONTINUOUS CHARGING

GENERAL POWER PLAN NOTES

- FUSING: ALL FUSIBLE SAFETY DISCONNECT SWITCHES SHALL BE PROVIDED WITH DUAL-ELEMENT TIME DELAY TYPE FUSES, SIZED AND RATED PER EQUIPMENT MANUFACTURERS' RECOMMENDATIONS. VERIFY WITH EQUIPMENT NAMEPLATE BEFORE INSTALLATION.
- INSTALL SEPARATE NEUTRALS FOR EACH BRANCH CIRCUIT SERVING ISOLATED GROUND RECEPTACLES.
- MOTOR OVERLOAD PROTECTION: WHERE REQUIRED BY NEC ARTICLE 430 PART C AND NOT SHOWN ON PLAN OR PROVIDED INTEGRAL WITH EQUIPMENT, PROVIDE AND INSTALL THERMAL OVERLOAD PROTECTION FOR ALL MOTORS.
- SPARE CONDUIT FOR RECESSED PANELS: PROVIDE (1) 3/4" SPARE CONDUIT STUB UP TO ACCESSIBLE ABOVE CEILING SPACE AND/OR ACCESSIBLE SPACE BELOW FOR EVERY (3) SPARE BREAKER SPACES AS INDICATED ON PANEL SCHEDULES.
- DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

GENERAL COMMUNICATION PLAN NOTES

- SIGNAL AND COMMUNICATIONS SYSTEMS RACEWAYS AND BOXES: PROVIDE AND INSTALL 4" SQUARE RECESSED JUNCTION BOX WITH 1-GANG RING AND (1) 3/4" CONDUIT STUB TO ACCESSIBLE CEILING SPACE AT EACH WALL TELEPHONE (VOICE), TELEVISION AND DATA OUTLET LOCATION SHOWN ON THE PLANS UNLESS OTHERWISE NOTED. FOR EACH COMBINATION VOICE/DATA OUTLET, PROVIDE AND INSTALL (2) 3/4" CONDUIT STUBS TO ACCESSIBLE CEILING SPACE.
- BEFORE CONSTRUCTION, COORDINATE AND VERIFY ALL DATA AND TELEPHONE LOCATIONS WITH OWNER OR ARCHITECT
- TELEPHONE WIRING: EACH TELEPHONE OUTLET LOCATION SHOWN ON THE PLANS SHALL HAVE A 4 PAIR, 24 GAUGE CONTINUOUS CABLE, CATEGORY 6 (BERK-TEK LANMARK SERIES OR APPROVED EQUAL), HOMERUN TO THE TELEPHONE TERMINAL BOARD "TTB" TERMINATE AT OUTLET LOCATION WITH OWNER APPROVED JACK, VERIFY LOCATIONS WITH OWNER OR ARCHITECT PRIOR TO CONSTRUCTION.
- TELEVISION PREWIRE: EACH TELEVISION OUTLET SHOWN ON THE PLANS SHALL HAVE AN RG6U (WITH QUAD SHIELD) COAXIAL CABLE HOMERUN PREWIRED TO THE CATV TERMINAL BOARD LABEL AND LEAVE ADEQUATE SLACK FOR UTILITY CONNECTION.
- VOICE/DATA WIRING: EACH VOICE/DATA OUTLET LOCATION SHOWN ON THE PLANS SHALL HAVE (4) 4 PAIR, 24 GAUGE, CATEGORY 6, UTP CABLES (BERK-TEK LANMARK SERIES OR APPROVED EQUAL) HOMERUN TO THE TELEPHONE TERMINAL BOARD. TERMINATE AT OUTLET LOCATION WITH OWNER APPROVED JACK. VERIFY SYSTEM REQUIREMENTS WITH OWNER OR ARCHITECT PRIOR TO CONSTRUCTION.
- DEVICE LOCATIONS SHOWN ARE SCHEMATIC AND APPROXIMATE. EXACT LOCATIONS SHALL BE FIELD VERIFIED DURING ROUGH-IN WITH ARCHITECTURAL ELEVATIONS, CASEWORK SHOP DRAWINGS, FURNITURE, ETC. AND SHALL BE COORDINATED WITH OTHER TRADES TO AVOID CONFLICT WITH OTHER EQUIPMENT.
- ELECTRICAL AND COMMUNICATIONS OUTLETS SHOWN IN THE SAME LOCATION, SHALL BE MOUNTED ON OPPOSITE SIDES OF THE SAME STUD. COORDINATE BETWEEN ELECTRICAL AND COMMUNICATIONS PLANS.

ROOF PLAN NOTES

- PROVIDE SEALTITE POWER & CONTROL CONNECTIONS TO ALL AC UNITS.
- ALL EQUIPMENT SHOWN ABOVE ROOF IS NEMA 3R.
- VERIFY EXACT EQUIPMENT LOCATIONS AND POINTS OF CONNECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN
- CONDUIT SHOWN IS ROUTED IN CEILING SPACE BELOW ROOF DECK
- NO ROOF MOUNT CONDUIT IS ALLOWED UNLESS OTHERWISE NOTED
- FUSE DISCONNECT SWITCHES PER EQUIPMENT NAMEPLATE RATING
- ALL ROOF PENETRATIONS SHALL BE MADE WITH ROOF JACKS, SEAL ALL PENETRATIONS WITH MASTIC

GENERAL NOTES

- CODE COMPLIANCE ALL WORK SHALL CONFORM TO AND BE PERFORMED IN ACCORDANCE WITH CODES, STANDARDS AND ORDINANCES AS SET FORTH BY THE AUTHORITIES HAVING JURISDICTION AND THEIR LATEST ADOPTED EDITIONS (IN EFFECT AT TIME OF BUILDING PERMIT APPLICATION) OF THE FOLLOWING PUBLICATIONS:
 - A. CALIFORNIA CODE OF REGULATIONS TITLE 24; INCLUDES CURRENT NATIONAL ELECTRICAL CODE, UNIFORM FIRE CODE, UNIFORM BUILDING CODE, ETC. WITH CALIFORNIA AND OTHER LOCAL AMENDMENTS AS APPLICABLE.
 - B. AMERICANS WITH DISABILITIES ACT (ADA)
 - SAFETY: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN ALL EQUIPMENT IN A SAFE AND RESPONSIBLE MANNER. KEEP DEAD FRONT EQUIPMENT IN PLACE WHILE EQUIPMENT IS ENERGIZED. CONDUCT ALL CONSTRUCTION OPERATIONS IN A SAFE MANNER FOR EMPLOYEES AS WELL AS OTHER WORKPERSONS OR ANYONE VISITING THE JOB SITE. PROVIDE BARRIERS, FLAGS, TAPE, ETC. AS REQUIRED FOR SAFETY. THE CONTRACTOR SHALL HOLD ALL PARTIES HARMLESS OF NEGLIGENT SAFETY PRACTICES, WHICH MAY CAUSE INJURY TO OTHERS ON OR NEAR THE JOB SITE.
 - FIRE RATED ASSEMBLIES SHALL MAINTAIN RATINGS AS SPECIFIED IN THE CALIFORNIA BUILDING CODE CHAPTER 7. CONTRACTOR SHALL PROVIDE AND INSTALL PHYSICAL ENCLOSURE AROUND FIXTURES, PANELS, ETC. AS REQUIRED. ALL ASSEMBLIES TO BE PENETRATED SHALL BE INSTALLED WITH APPLICABLE THROUGH-PENETRATION FIRESTOP SYSTEM AS DETERMINED BY UL CLASSIFICATION. BEFORE CONSTRUCTION, VERIFY AND COMPLY WITH REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
 - MOUNTING HEIGHTS IN INCHES ABOVE FINISH FLOOR SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - FROM BOTTOM OF PLATE +15" AFF: RECEPTACLES, TELEPHONE, TV & DATA OUTLETS
 - TOP OF SWITCH PLATE +48" AFF: LIGHT SWITCHES
 - +48" AFF: FIRE ALARM MANUAL PULL STATIONS, T-STATS
 - THE LOWER OF +80" AFF OR 6" BELOW CEILING: FIRE ALARM VISUALS
 - BEFORE ROUGH-IN, VERIFY ALL MOUNTING HEIGHTS AND EXACT LOCATIONS FOR ALL EQUIPMENT ELECTRICAL CONNECTIONS, STUB-UPS, RECEPTACLES, OUTLETS, ETC. WITH ARCHITECT OR OWNER. PLACE DEVICES LOCATED ABOVE COUNTERS, SHELVING, ETC. AND BATHROOMS SO AS NOT TO CONFLICT WITH EDGES OF WAINSCOTING, COUNTER SPLASH, SHELVING, ETC. ARCHITECTURAL SHEETS SHALL GOVERN.
 - LABEL PANELS, CABINETS, BACKBOARDS, MAIN DEVICES, SAFETY SWITCHES, CONTACTORS AND OTHER SPECIFICALLY DESIGNATED EQUIPMENT SHOWN ON PLANS. USE ENGRAVED LAMINATED PLASTIC NAMEPLATES ATTACHED BY SCREWS OR RIVETS. FOR FEEDERS, NEATLY AND INDELIBLY LABEL CONDUIT DESTINATIONS ON BOTH VISIBLE ENDS OF CONDUIT RUNS WHERE CONDUITS TERMINATE AT DESIGNATED ENCLOSURES, STRUCTURES OR EQUIPMENT (INCLUDING PULL AND SPLICE BOXES)
 - EQUIPMENT ANCHORAGE: BRACE OR ANCHOR ALL ELECTRICAL EQUIPMENT TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION. USE THE FOLLOWING CRITERIA FOR DETERMINING:
 - A. FIXED EQUIPMENT ON GRADE 30% OF OPERATING WEIGHT.
 - B. FIXED EQUIPMENT ON STRUCTURE 45% OF OPERATING WEIGHT.
 - C. EMERGENCY POWER EQUIPMENT ON GRADE 40% OF OPERATING WEIGHT.
 - D. EMERGENCY POWER EQUIPMENT ON STRUCTURE 60% OF OPERATING WEIGHT.
- EXCEPTIONS: FOR FLEXIBLY MOUNTED EQUIPMENT USE 4X THE ABOVE VALUES; FOR SIMULTANEOUS VERTICAL FORCE, USE 1/2X HORIZONTAL FORCE. SEE STRUCTURAL PLANS FOR ANCHORAGE DETAILS AND WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTA INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE AUTHORITY HAVING JURISDICTION. SHOULD SAID APPROVAL BE WITHHELD, ELECTRICAL CONTRACTOR SHALL, AT NO EXTRA COST TO THE OWNER, MODIFY AND JUSTIFY INSTALLATION AS REQUIRED TO GAIN APPROVAL.

MECHANICAL SYSTEMS

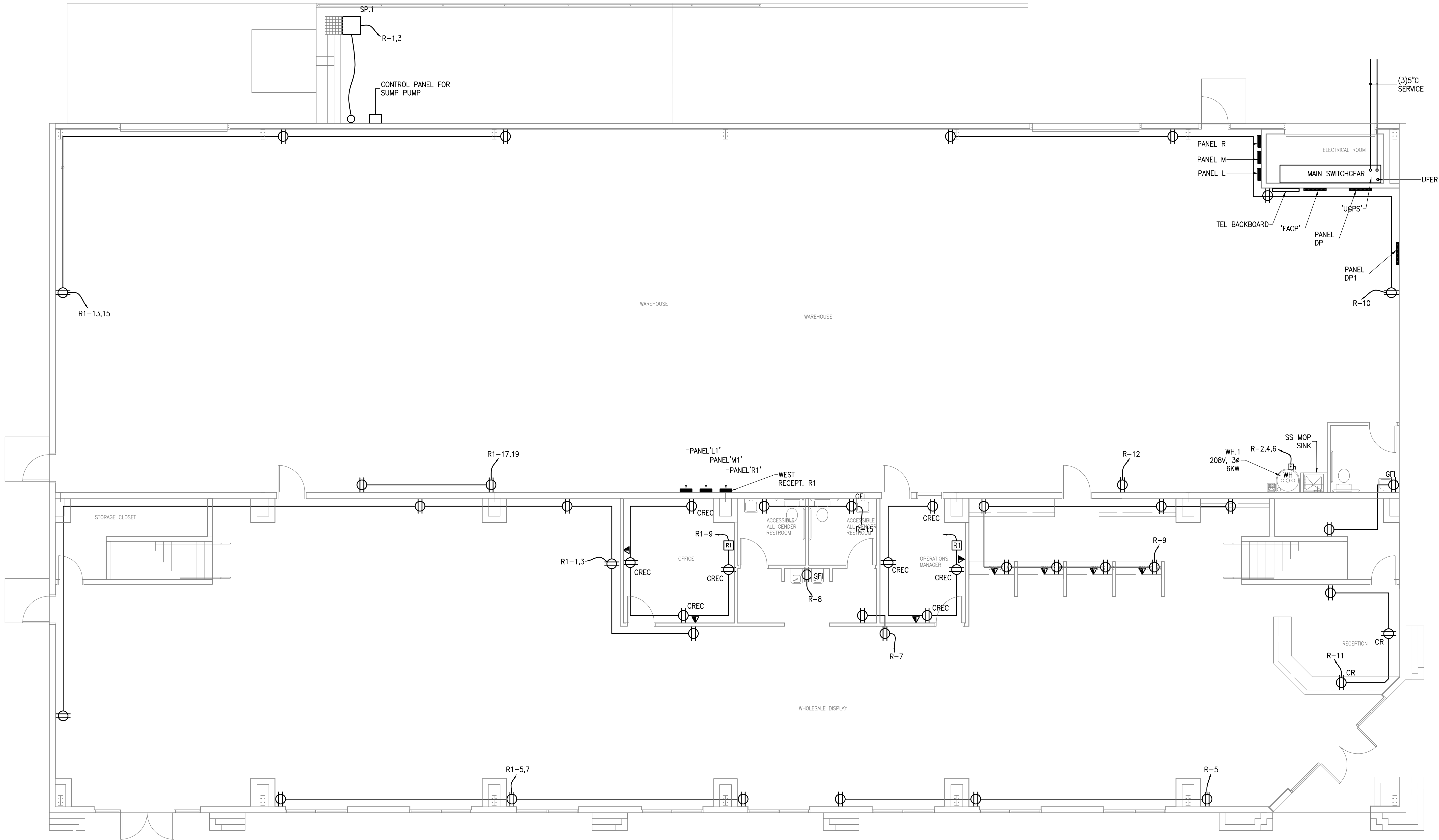
- MECHANICAL UNIT CONDUITS: TO PREVENT DAMAGE DUE TO VIBRATION, BOTH POWER AND CONTROL WIRING CONDUITS FEEDING EXTERIOR MECHANICAL UNITS SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR WITH LIQUID TIGHT FLEXIBLE TYPE AT FINAL CONNECTION TO UNIT AND BETWEEN ROOF JACK AND DISCONNECT SWITCH WHERE DISCONNECT IS MOUNTED ON UNIT.
- NOT USED
- T-STAT J-BOXES: PROVIDE AND INSTALL 4" SQUARE JUNCTION BOX WITH 1-GANG RING AND 1/2" CONDUIT TO ACCESSIBLE CEILING SPACE ABOVE AT EACH THERMOSTAT LOCATION
- EXHAUST FANS SHALL BE PROVIDED & INSTALLED BY MECHANICAL CONTRACTOR WITH WIRING CONNECTIONS MADE BY ELECTRICAL CONTRACTOR
- MECHANICAL EQUIPMENT CONTROLS: MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOW VOLTAGE WIRE AND CONNECTIONS (BELOW 120 VOLT) TO AND FROM ALL MECHANICAL CONTROL DEVICES. ALL LOW VOLTAGE CONTROL WIRE SHALL BE IN CONDUIT, UNLESS OTHERWISE NOTED.
- PULL ROPES: ANY RACEWAY WITHOUT CABLE OR WIRE SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AND LARGER IF REQUIRED BY SERVING UTILITY COMPANY. ANY NEW OR EXISTING COMMUNICATION OR SIGNAL RACEWAY ROUTED BETWEEN BUILDINGS, SIGNAL CABINETS, AND/OR SIGNAL CLOSETS WITH FUTURE CAPACITY SHALL BE INSTALLED WITH MINIMUM 200 POUND TEST PULL LINE AS WELL AS THE CALLED FOR CABLE

FIRE ALARM SYSTEM

- PROVIDE ALL WORK AND MATERIAL REQUIRED TO INSTALL DELAY EXIT PANIC HARDWARE IN COMPLIANCE WITH CBC 1003.3.1.10
- DUCT SMOKE DETECTORS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. DETECTOR POWER AND SUPERVISORY WIRING AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR. MECHANICAL UNIT CONTROL (SHUTDOWN UPON DETECTOR ALARM) WIRING AND CONNECTIONS SHALL BE MADE BY MECHANICAL CONTRACTOR
- EXISTING BUILDING
- ANY DEMOLITION WORK SHOWN WAS PREPARED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER DOES NOT REPRESENT THAT ALL ITEMS WHICH MAY REQUIRE DEMOLITION HAVE BEEN SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CAREFULLY EXAMINE THE SITE AND THE CONTRACT DOCUMENTS AND TO PERFORM ALL DEMOLITION AND RECONSTRUCTION WHICH MAY BE REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK
- EXISTING CONDITIONS: INFORMATION SHOWN FOR EXISTING CONDITIONS WAS PRIMARILY GAINED FROM "AS BUILT" DRAWINGS AND/OR LIMITED FIELD INVESTIGATION. BEFORE BID, VISIT SITE TO VERIFY EXISTING CONDITIONS AND MAKE ALLOWANCE FOR VARIATIONS FROM THAT SHOWN
- EXISTING CONDUCTORS: INTERCEPT, EXTEND, REROUTE, REPULL CONDUCTORS, SPLICE AND OTHERWISE MODIFY EXISTING CONDUCTORS OF ALL SYSTEMS AS REQUIRED TO MAINTAIN AND/OR ESTABLISH PROPER FUNCTION AND SATISFY DESIGN INTENT. REMOVE ABANDONED CONDUCTORS
- EXISTING COMMUNICATIONS, DATA AND CATV AND OTHER LOW VOLTAGE TYPE SYSTEM OUTLET LOCATIONS SHOWN ON THE PLAN TO BE RELOCATED SHALL BE PERFORMED BY THE ELECTRICAL CONTRACTOR. MODIFY EXISTING SYSTEM AS REQUIRED FOR FULL FUNCTION (SAME AS EXISTING) IN NEW LOCATION
- WHERE EXISTING BUILDING CONSTRUCTION, MECHANICAL UNITS AND OTHER EQUIPMENT IS SHOWN TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL INSTALLATION
- CLOSELY COORDINATE OUTAGE AND FACILITY DISRUPTION TIME WITH ARCHITECT AND OWNER. MINIMUM 72-HOUR NOTICE IS REQUIRED BEFORE ANY CIRCUIT SHUTDOWN OR DISRUPTION OF FACILITY PERSONNEL FUNCTIONING

A	AMPERE	EB	ELECTRONIC BALLAST	KVA	KILOVOLTAMPS
AB	AMP BREAKER	EC	ELECTRICAL CONTRACTOR	KW	KILOWATT
ABAND	ABANDONED	EC-#	EVAPORATIVE COOLER	LC	LIGHTING CONTACTOR
ABV	ABOVE	EF-#	EXHAUST FAN	LPS	LOW PRESSURE SODIUM
AC	ALTERNATING CURRENT	EL	EVENING LIGHT	LRA	LOCKED ROTOR AMPS
AC-#	AIR CONDITIONER	ELEC	ELECTRICAL	LS	LIFE SAFETY BRANCH
ADJ	ADJACENT	EM	EMERG BATTERY BACKUP	LT	LIGHT
AF	AMP FUSE, AMP FRAME	EMB	EMERGENCY BALLAST	LTG	LIGHTING
AFF	ABOVE FINISH FLOOR	EMERG	EMERGENCY	LV	LOW VOLTAGE
AFG	ABOVE FINISH GRADE	EOL	END OF LINE	MC	MECHANICAL CONTRACTOR
AIC	AMPERES INTERRUPTING CAPACITY	EQUIP'T	EQUIPMENT	MCA	MINIMUM CKT AMPS
AI	ALUMINUM	ES	ENERGY SAVING	MCB	MAIN CIRCUIT BREAKER
AS	AMP SWITCH RATING	(EXN)	(E) IN (N) LOCATION	MCTB	MAIN CATV TERMINAL BOARD
ATS	AUTOMATIC TIME SWITCH	(EXR)	(E) TO BE (R)	MCTC	MAIN CATV TERMINAL CABINET
ATS	AUTOMATIC TRANSFER SWITCH	EXT	EXTERIOR	MECH	MECHANICAL
AV	AUDIBLE/AUDIO VISUAL	F	FLUORESCENT	MFR	MANUFACTURER
AWG	AMERICAN WIRE GAGE	(F)	FUTURE	MFS	MAIN FUSIBLE SWITCH
BFG	BELOW FINISH GRADE	F-#	FURNACE	MH	METAL HALIDE
BIL	BASIC IMPULSE LEVEL	FA	FIRE ALARM	MLO	MAIN LUGS ONLY
BLDG	BUILDING	FACP	FIRE ALARM CONTROL PANEL	MOC	MAXIMUM OCP
C	CONDUIT	FAT	FIRE ALARM TERMINAL	MSB	MAIN SWITCHBOARD
C-	CATV CONDUIT	FAU	FORCED AIR UNIT	MT	MOUNT
CAB'T	CABINET	FBO	FURNISHED BY OTHERS	MT HT	MOUNTING HEIGHT
CATV	CABLE TELEVISION	FC-#	FAN COIL	MTS	MANUAL TRANSFER SWITCH
CB	CIRCUIT BREAKER, CODE BLUE	FLA	FULL LOAD AMPS	MTTB	MAIN TELEPHONE TERMINAL BOARD
CBC	CA. BUILDING CODE	FLR	FLOOR	MTTC	MAIN TELEPHONE TERMINAL CABINET
CEC	CA. ELECTRICAL CODE	FLUOR	FLUORESCENT	MW	MICROWAVE
	CA. ENERGY COMMISSION	FS	FUSIBLE SWITCH	N	NEUTRAL (GROUNDED CONDUCTOR)
GF	COMPACT FLUORESCENT	FVNR	FULL VOLTAGE NON-REVERSING	(N)	NEW
CFC	CALIFORNIA FIRE CODE	G	GROUNDING CONDUCTOR	N3R	NEMA 3R
CLG	CEILING	GC	GENERAL CONTRACTOR	NC	NORMALLY CLOSED
CL	CENTER LINE	GD	GARBAGE DISPOSAL	NEC	NATIONAL ELECTRICAL CODE
CKT	CIRCUIT	GFCI	GROUND FAULT CIRCUIT INTERRUPTER	NEMA	NAT'L ELEC MANUFACTURER'S ASSOC
CNT'R	CONTRACTOR	GFI	GROUND FAULT CIRCUIT INTERRUPTER	NIC	NOT IN CONTRACT
C.O.	CONDUIT ONLY (W/PULLROPE)	GND	GROUND	NL	NIGHT LIGHT
COND	CONDUIT, CONDUCTOR	GRS	GALVANIZED RIGID STEEL	NO	NORMALLY OPEN
CR	CRITICAL BRANCH	GWS	GANG WITH SWITCH	NPF	NORMAL POWER FACTOR
CSFM	CALIFORNIA SFM	H	HEIGHT, HIGH	NTS	NOT TO SCALE
CT	CURRENT TRANSFORMER	HACR	HEATING, AC & REFRIG	OC	ON CENTER
CU	COPPER	HH	HALF HOT	OCP	OVERCURRENT PROTECTION
CU-#	CONDENSING UNIT	HID	HIGH INTENSITY DISCHARGE	OD	OUTSIDE DIAMETER
D	DEPTH	HO	HIGH OUTPUT	OH	OVERHEAD
DC	DIRECT CURRENT	HOA	HAND-OFF-AUTO	OSA	OFFICE of the STATE ARCHITECT
DF	DRINKING FOUNTAIN	HP	HORSEPOWER	OSHPD	OFFICE of STATEWIDE HEALTH PLANNING & DEVELOPMENT
DIA	DIAMETER	HPF	HIGH POWER FACTOR	OVLD	OVERLOAD
DISC	DISCONNECT	HPS	HIGH PRESSURE SODIUM	P	POLE
DIST	DISTRIBUTION	IC	INTERCOM	PA	PUBLIC ADDRESS
DPST	DOUBLE POLE SINGLE THROW	ID	IDENTIFICATION	PB	PULLBOX
DW	DISHWASHER	IF	INSIDE FROST	PC	PULL CHAIN
EM	EMERGENCY	IG	ISOLATED GROUND	PC	PHOTOCELL
(E)	EXISTING	J-BOX	JUNCTION BOX	ph	PHASE
EA	EACH	K	QUANTITY 1000	PNL	PANEL

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FIRST FLOOR POWER PLAN

SCALE: 3/16" = 1'-0"

CANTEM ENGINEERING
MECHANICAL / ELECTRICAL
2150 STREET BAKERSFIELD, CA 93301
TEL: (661) 324-3232 FAX: (661) 324-8439 cantemi@cantemi.net

FIRST FLOOR POWER PLAN
MICHAEL FLOORING, INC.
6500 DISTRICT BLVD.
BAKERSFIELD, CA 93313

DATE	ISSUED

DATE	MARK	ISSUED

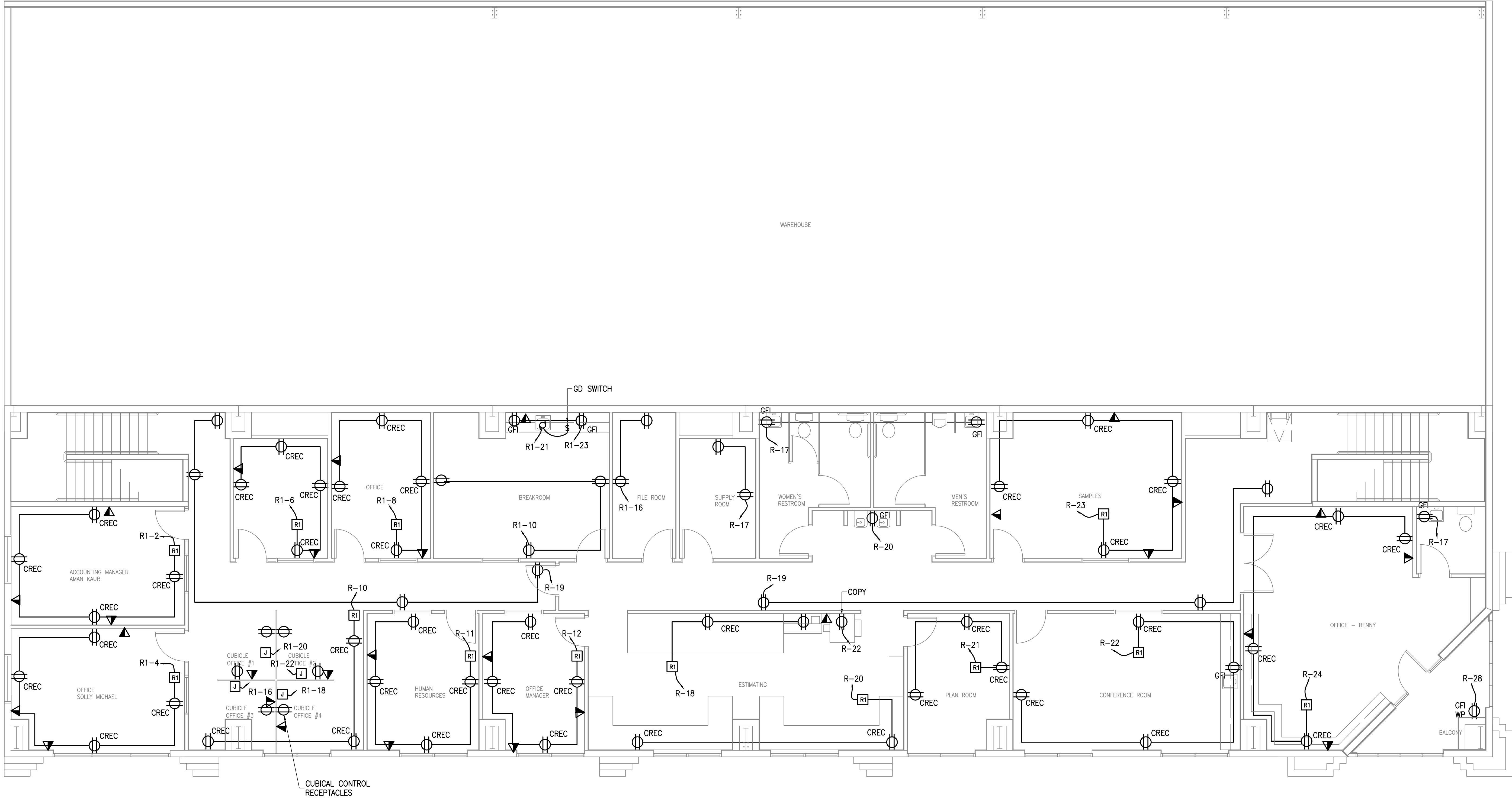
DWG. BY	DBC
CHKD BY	KM
DATE	12-21-18
JOB NO.	C18-135
FILE NO.	

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NOTHING IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT AN INSTALLATION IN VIOLATION OF APPLICABLE CODES AND/OR RESTRICTIONS. SHOULD ANY CHANGE IN THE DRAWINGS AND/OR SPECIFICATIONS BE NECESSARY IN ORDER TO COMPLY WITH APPLICABLE CODES AND/OR REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD. THE WORK PERFORMED UNDER THIS CONTRACT SHALL BE IN FULL ACCORDANCE WITH THE LATEST CODES, REGULATIONS, RESTRICTIONS AND REQUIREMENTS. CONTRACTOR TO OBTAIN CLARIFICATION FROM ENGINEER OF RECORD WHERE CONFLICTS IN DRAWING OR DIMENSIONS ARISE PRIOR TO PROCEEDING WITH CONSTRUCTION.

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SECOND FLOOR POWER PLAN

SCALE: 3/16" = 1'-0"

CANTEMELMI ENGINEERING
ELECTRICAL / ELECTRICAL
2130 F STREET BAKERSFIELD, CA 93301
TEL: (661) 324-5252 FAX: (661) 324-8439 Cantelmi@cantelmi.net

MICHAEL FLOORING, INC.
6500 DISTRICT BLVD.
BAKERSFIELD, CA 93313

DATE	ISSUED

DATE	MARK	ISSUED

DWG. BY	DBC
CHKD BY	KM
DATE	12/1-18
JOB NO.	C18-135
FILE NO.	



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SCALE: 3/16" = 1'-0"

CANTELM ENGINEERING
MECHANICAL/ELECTRICAL
2130 F STREET, BAKERSFIELD, CA 93301 LICENSE #21190
TEL: (661) 324-5252 FAX: (661) 324-8439 Cantelmi@Cantelmi.NET

FIRST FLOOR LIGHTING PLAN
MICHAEL FLOORING, INC.
6500 DISTRICT BLVD.
BAKERSFIELD, CA 93313

DATE	MARK	ISSUED

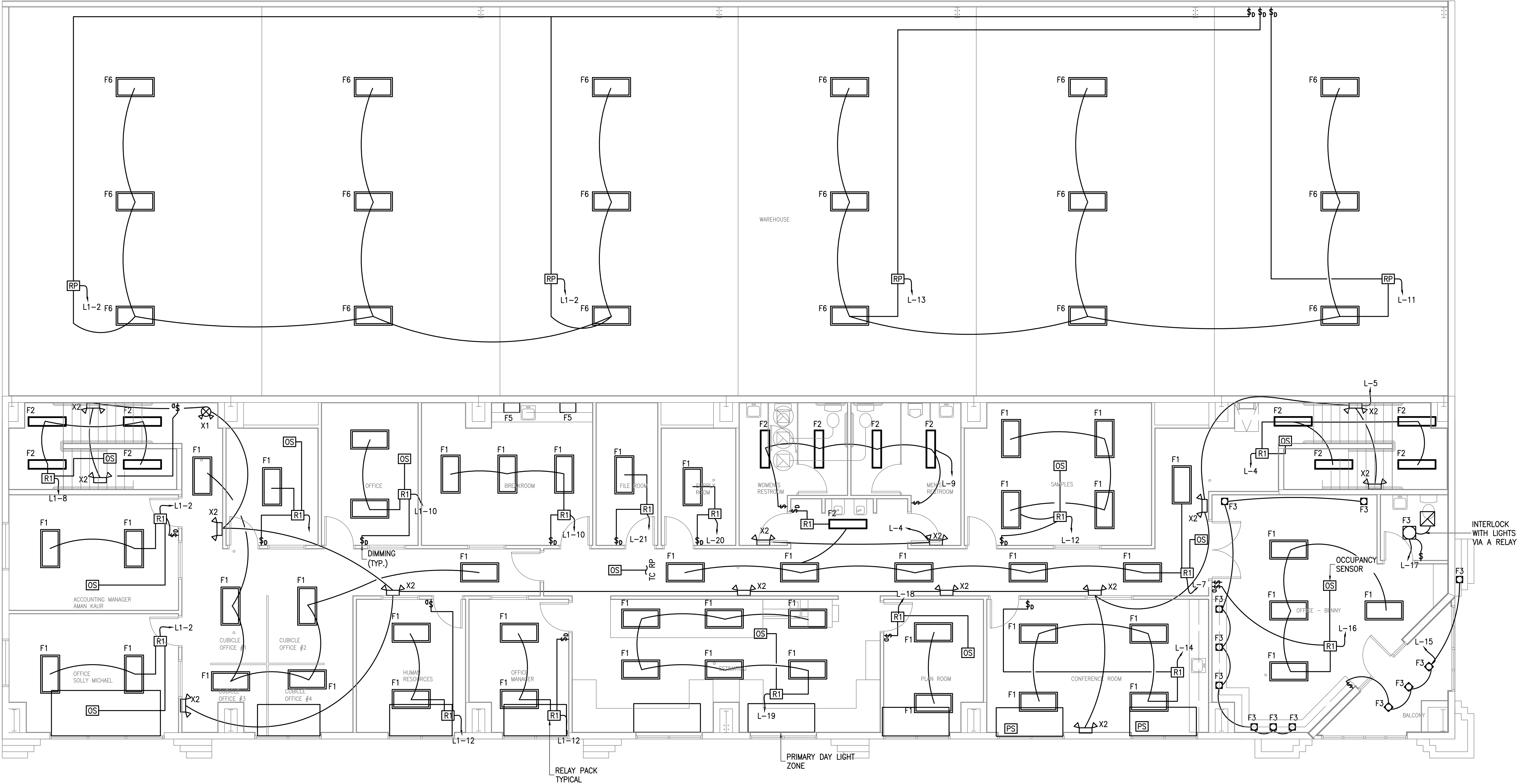
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DATE	12-21-18
JOB NO.	C18-135
FILE NO.	

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SECOND FLOOR LIGHTING PLAN

SCALE: 3/16" = 1'-0"

CANTEMI ENGINEERING
ELECTRICAL / ELECTRICAL
MICHAEL FLOORING, INC.
2130 F STREET BAKERSFIELD, CA 93301
TEL: (661) 324-5252 FAX: (661) 324-8439 Cantemi@cantemi.net

SECOND FLOOR LIGHTING PLAN
MICHAEL FLOORING, INC.
6500 DISTRICT BLVD.
BAKERSFIELD, CA 93313

DATE	ISSUED

DATE	MARK	ISSUED

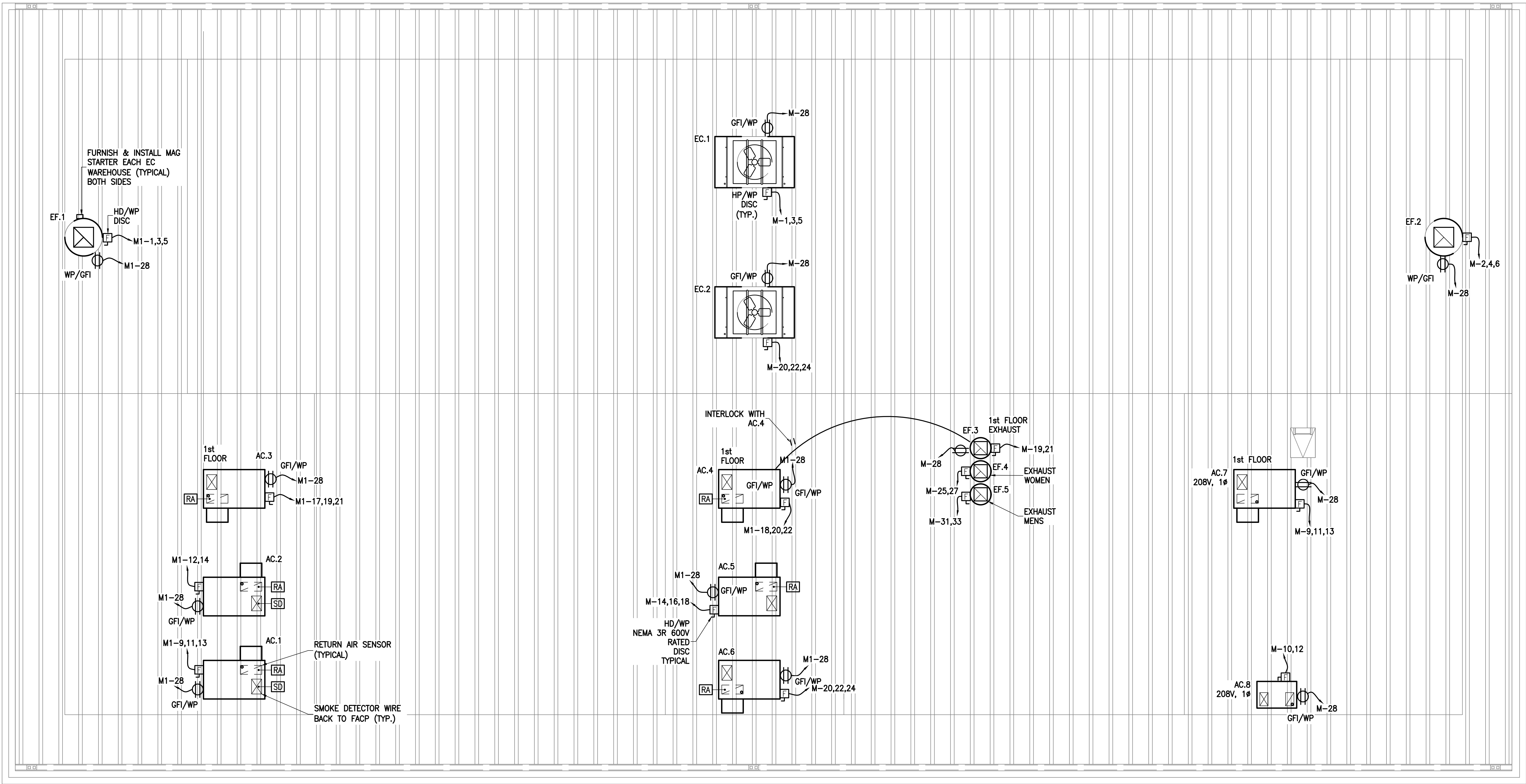
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CHKD BY	FJC
DATE	12-21-18
JOB NO.	C18-135
FILE NO.	



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ELECTRICAL ROOF PLAN

SCALE: 3/16" = 1'-0"

CANTELM ENGINEERING
ELECTRICAL / ELECTRICAL
2130 F STREET BAKERSFIELD, CA 93301
TEL: (661) 324-5252 FAX: (661) 324-8439 Cantelmi@cantelmi.net

ELECTRICAL ROOF PLAN
MICHAEL FLOORING, INC.
6500 DISTRICT BLVD.
BAKERSFIELD, CA 93313

DATE	ISSUED

DATE	MARK	ISSUED

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PANEL " R " EAST SIDE													BUS: 225A			LOC.: SEE PLAN MTG.: SURFACE						
SERVICE: 120/208V 3Φ 4W PANELBOARD													MAIN BKR.: 200A									
REMARKS	LOAD			R E C	L T G	M I S C	TRIP	POLE	WIRE	C I R C		C I R C	WIRE	POLE	TRIP	R E C	L T G	M I S C	LOAD			REMARKS
	ΦA	ΦB	ΦC																ΦA	ΦB	ΦC	
SUMP PUMP	1000						20		8	1		2	6		30					2000		WH.1 6KW
		1000						2	8	3		4	6								2000	
DISPLAY			1000				20	1	12	5		6	6	3								2000
		1000					20	1	12	7		8	12	1	20					1500		DRINKING FOUNTAIN
			1000				20	1	12	9		10	12	1	20					200		REC
				1000			20	1	12	11		12	12	1	20						200	REC
	1000						20	1	12	13		14	12	1	20							SPARE
		400					20	1	12	15		16	12	1	20					400		DRINKING FOUNTAIN
			400				20	1	12	17		18	12	1	20						1000	ESTIMATING
	400						20	1	12	19		20	12	1	20					1500		COPY
							20	1	12	21		22	12	1	20						1500	COPY
			1000				20	1	12	23		24	12	1	20							1000
SPARE							20	1	12	25		26	12	1	20							BENNY
SPARE							20	1	12	27		28	12	1	20					200		SPARE
SPARE							20	1	12	29		30	12	1	20							GF/WVP
SPARE							20	1	12	31		32	12	1	20							SPARE
SPARE							20	1	12	33		34	12	1	20							SPARE
SPARE							20	1	12	35		36	12	1	20							SPARE
SPARE							20	1	12	37		38	12	1	20							SPARE
SPARE							20	1	12	39		40	12	1	20							SPARE
SPARE							20	1	12	41		42	12	1	20							SPARE
TOTAL WATTS=	3400	2400	3400																	5000	4300	4200
AMPS=	22700					ΦA= 8400								ΦB= 6700						ΦC= 7600		
	63.009													MINIMUM BKR						A.I.C. RATING=	SERIES	
PHASE A =	8400																					
PHASE B =	6700																					
PHASE C =	7600																					
TOTAL WATTS	22700																					

PANEL " R1 " WEST SIDE																															
SERVICE: 120/208V 3Φ 4W										MAIN BKR.: 200A										BUS: 225A						LOC.: SEE PLAN					
PANELBOARD																				MTG.: SURFACE											
REMARKS	LOAD			R E C	L T G	M I S C	TRIP	POLE	WIRE	C I R C		C I R C	WIRE	POLE	TRIP	R E C	L T G	M I S C	LOAD				REMARKS								
	ΦA	ΦB	ΦC																ΦA	ΦB	ΦC										
1ST FLOOR RECEPT.	1200						20		8	1		2	12	1	20				1000				2ND FLOOR REC								
1ST FLOOR RECEPT.		1200						2	8	3		4	12	1	20					1000			2ND FLOOR REC								
1ST FLOOR RECEPT.			1200				20	1	12	5		6	12	1	20						1000		2ND FLOOR REC								
1ST FLOOR RECEPT.	1200						20	1	12	7		8	12	1	20				1000				2ND FLOOR REC								
1ST FLOOR RECEPT.		1200					20	1	12	9		10	12	1	20					1000			2ND FLOOR REC								
							20	1	12	11		12	12	1	20						1000		2ND FLOOR REC								
WAREHOUSE	1000						20	1	12	13		14	12	1	20				1000				2ND FLOOR REC								
WAREHOUSE		1000					20	1	12	15		16	12	1	20					200			REC								
WAREHOUSE			1000				20	1	12	17		18	12	1	20						200		REC								
WAREHOUSE	1000						20	1	12	19		20	12	1	20				200				REC								
GARBAGE DISP		1500					20	1	12	21		22	12	1	20					200			REC								
REC			400				20	1	12	23		24	12	1	20								SPARE								
SPARE							20	1	12	25		26	12	1	20								SPARE								
SPARE							20	1	12	27		28	12	1	20								SPARE								
SPARE							20	1	12	29		30	12	1	20								SPARE								
SPARE							20	1	12	31		32	12	1	20								SPARE								
SPARE							20	1	12	33		34	12	1	20								SPARE								
SPARE							20	1	12	35		36	12	1	20								SPARE								
SPARE							20	1	12	37		38	12	1	20								SPARE								
SPARE							20	1	12	39		40	12	1	20								SPARE								
SPARE							20	1	12	41		42	12	1	20								SPARE								
TOTAL WATTS=	19700	4900	2600																3200	2400	2200										
AMPS=	54.682					ΦA = 7600								ΦB = 7300						ΦC = 4800											
														MINIMUM BKR					A.I.C. RATING=	SERIES											
PHASE A =	7600																														
PHASE B =	7300																														
PHASE C =	4800																														
TOTAL WATTS	19700																														

PANEL " M " MECHANICAL EAST SIDE																													
SERVICE: 120/208V 3Φ 4W						MAIN BKR.: 200A										BUS: 225A						LOC.: SEE PLAN							
PANELBOARD																										MTG.: SURFACE			
REMARKS	LOAD			R E C	L T G	M I S C	TRIP	POLE	WIRE	C I R C		C I R C	WIRE	POLE	TRIP	R E C	L T G	M I S C	LOAD				REMARKS						
	ΦA	ΦB	ΦC																ΦA	ΦB	ΦC								
EC.2 2HP	2000						30		8	1		2	6		30					2000			EF.2 3HP						
		2000							8	3		4	6								2000								
			2000					3	8	5		6	6	3								2000							
SPARE							20	1	12	7		8	12	1	20								SPARE						
AC.7 6 TON	5000						50		6	9		10	8		30						2300		AC.8 2TON						
		5000							6	11		12	8	2								2300							
			5000					3	6	13		14	8		40					3300			AC.5 4TON						
SPARE							20	1	12	15		16	8								3300								
SPARE							20	1	12	17		18	8	3								3300							
EF.3			1000				20	8	19			20	8		30					3300			AC.6 3TON						
	1000							2	8	21		22	8								3300								
SPARE							20	1	12	23		24	8	3								3300							
EF.4			1000				20	8	25			26	12	1	20														
	1000							2	8	27		28	12	1	20						1200		WP GFI						
SPARE							20	1	12	29		30	12	1	20								SPARE						
EF.5			1000				20	8	31			32	12	1	20								SPARE						
	1000							2	8	33		34	12	1	20								SPARE						
SPARE							20	1	12	35		36	12	1	20								SPARE						
SPARE							20	1	12	37		38	12	1	20								SPARE						
SPARE							20	1	12	39		40	12	1	20								SPARE						
SPARE							20	1	12	41		42	12	1	20								SPARE						
	10000	7000	10000																	8600	12100	10900							
TOTAL WATTS=	58600			ΦA= 18600											ΦB= 19100						ΦC= 20900								
AMPS=	162.66														MINIMUM BKR						A.I.C. RATING= SERIES								

ALL EXTERIOR LIGHTS TO BE CONTROLLED BY
ASTRONOMICAL TIME CLOCK AND PHOTO CELL

SERVICE: 120/208V 3Φ 4W										MAIN BKR.: 400A										BUS: 400A										LOC.: SEE PLAN									
PANELBOARD																														MTG.: SURFACE									
REMARKS		LOAD			R E C	L T G	M I S C	TRIP	POLE	WIRE	C I R C		C I R C	WIRE	POLE	TRIP	R E C	L T G	M I S C	LOAD			REMARKS																
		ΦA	ΦB	ΦC																ΦA	ΦB	ΦC																	
PANEL L1		4500						100	2	1			2	3/0		200					20374			PANEL M1															
			4000						2	3			4	3/0								23874																	
				3000					3	2	5		6	3/0	3								22674																
								20	1	12	7		8	12	1	20									SPARE														
								20	1	12	9		10	12	1	20									SPARE														
PANEL R1		7400						200	3/0	13		12	12	1	20										SPARE														
			5400						3/0	15		16	12	1	20										SPARE														
				4200				3	3/0	17		18	12	1	20										SPARE														
SOLAR								200	3/0	19		20	12	1	20										SPARE														
									3/0	21		22	12	1	20										SPARE														
									3	3/0	23	24	12	1	20										SPARE														
SPARE								20	1	12	25	26	12	1	20										SPARE														
SPARE								20	1	12	27	28	12	1	20										SPARE														
SPARE								20	1	12	29	30	12	1	20										SPARE														
SPARE								20	1	12	31	32	12	1	20										SPARE														
SPARE								20	1	12	33	34	12	1	20										SPARE														
SPARE								20	1	12	35	36	12	1	20										SPARE														
SPARE								20	1	12	37	38	12	1	20										SPARE														
SPARE								20	1	12	39	40	12	1	20										SPARE														
SPARE								20	1	12	41	42	12	1	20										SPARE														
		11900	9400	7200																	20374	23874	22674																
TOTAL WATTS=		95422	ΦA= 32274										ΦB= 33274										ΦC= 29874																
AMPS=		264.86											MINIMUM BKR										A.I.C. RATING= SERIES																
PHASE A =		32274																																					
PHASE B =		33274																																					
PHASE C =		29874																																					
TOTAL WATTS		95422																																					

PHASE A =	1200
PHASE B =	1000
PHASE C =	1000
TOTAL WATTS	3200

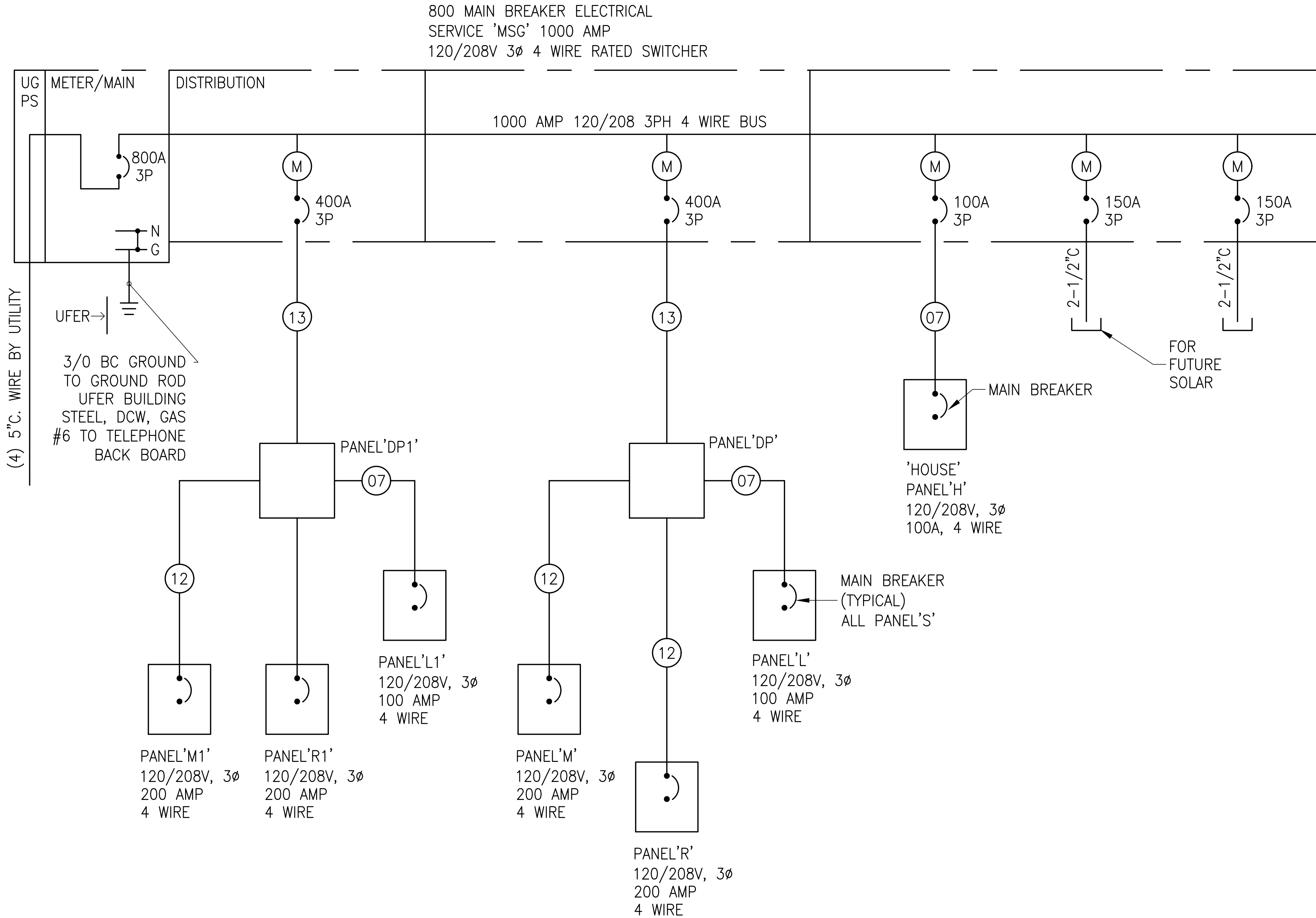
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LIGHT FIXTURE SCHEDULE VOLTAGE: 120V (U.O.N.)			
TYPE	INPUT WATTS	DESCRIPTION AND MANUFACTURER	REMARKS
F1	51	2X4 LED VOLTAGE: UNV LAMP: LED MANUFACTURER: COLUMBIA#LUT-24-40-HL-SM-FS-A12-ED-U-FK24	FLANG KIT FOR SURFACE MT FIXTURE FTE INDICATES 90MIN BATTERY ELL14
F2	48	TX4 LED VOLTAGE: UNV LAMP: LED MANUFACTURER: COLUMBIA#LAW-	-
F3	26	CAN LIGHT VOLTAGE: UNV LAMP: LED MANUFACTURER: PRESCOOLITE#LFBSL-DM1-BLFSL-20L-40K-9CRI-	-
F4	29	WALL PACK VOLTAGE: UNV LAMP: LED MANUFACTURER: HUBBELL#LNC2-12L-U-4K-3	-
F5E	8	EM OUTDOOR LIGHT VOLTAGE: UNV LAMP: LED MANUFACTURER: DUAL LITE#PG	-
F6	150	HIGH BAY LIGHT VOLTAGE: UNV LAMP: LED MANUFACTURER: COLUMBIA#PEL-4-50-MHHE-FA-W-ED	-
X1	8	EXIT LIGHT WITH EM LIGHTS VOLTAGE: UNV LAMP: LED MANUFACTURER: COMPASS# CCR	-
X2	8	EXIT LIGHT WITH EM LIGHTS VOLTAGE: UNV LAMP: LED MANUFACTURER: DUAL LITE#	-
F7	-	EXTERIOR WALL LIGHT VOLTAGE: UNV LAMP: LED MANUFACTURER: KIM #FRA-ACORN, GREEN HUNTER COLOR, TWIN # 2B/AE213120S3K120, SINGLE KIM #1A/AE213120S3K120	-
F8	51	SUSPENDED LIGHT FIXTURE VOLTAGE: UNV LAMP: LED	-

1 SINGLE LINE DIAGRAM

FEEDER SCHEDULE					
NUMBER	AMPS	CONDUIT	CONDUCTORS PER CONDUIT (THHN/THWN. CU)		
		PVC. EMT OR GRS	3Ø 4W (C)	PULL LINE (E)	(THHN/THWN) COPPER
01	40	3/4"	4 #8	1	#10
02	50	3/4"	4 #6	1	#10
03	60	1"	4 #6	1	#10
04	70	1-1/2"	4 #4	1	#8
05	80	1-1/2"	4 #4	1	#8
06	90	1-1/2"	4 #2	1	#6
07	100	1-1/2"	4 #2	1	#6
08	110	1-1/2"	4 #1	1	#6
09	125	1-1/2"	4 #1	1	#6
10	150	2"	4 #1/0	1	#6
11	175	2"	4 #2/0	1	#4
12	200	2"	4 #3/0	1	#4
13	400	(2)2"	4 #3/0	1	#2 EACH

N.T.S.



CANTEMI ENGINEERING
ELECTRICAL / ELECTRICAL
2130 F STREET BAKERSFIELD, CA 93301
TEL: (661) 324-5252 FAX: (661) 324-8439 Cantelmi@cantelmi.net

SINGLE LINE DIAGRAM
MICHAEL FLOORING, INC.
6500 DISTRICT BLVD.
BAKERSFIELD, CA 93313

DATE	ISSUED

DATE	MARK	ISSUED

DWG. BY	DBC
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