	ELECTRICA	LSY	MBUL5
(#)	SHEET NOTE IDENTIFIER	~(#) <u></u>	BRANCH CIRCUIT HOMERUN
\bigcirc X	LIGHTING FIXTURE IDENTIFIER		WIRES IN CONDUIT, CONCEALED UNDER
#	FEEDER SIZE IDENTIFIER		FLOOR OR UNDERGROUND WIRES IN CONDUIT, CONCEALED ABOVE
GFI "	DUPLEX RECEPTACLE (# INDICATES CIRCUIT,	14441	CEILING OR IN WALLS
⊕ #	TYPICAL) GFI TYPE "	////** <u>*</u>	EXISTING CONDUIT/WIRING TO BE REMOVED EMERGENCY CIRCUIT
	DUPLEX RECEPTACLE D = DEDICATED	FA_	FIRE ALARM SYSTEM
U	OUTLET CONNECTED TO UPS	/ ''' \	TELEPHONE SYSTEM CONDUIT
E	OUTLET CONNECTED TO EMERGENCY PANEL		SECURITY SYSTEM
	FOURPLEX RECEPTACLE	G	GROUND WIRING
	ISOLATED GROUND DUPLEX RECEPTACLE	— ww —	WIREMOLD
	PROVIDE (1) #12 AWG. INSULATED, ISOLATED GROUND (IG) WIRE IN ADDITION TO EQUIPMENT GROUND WIRE		CONDUIT SEAL
	SPECIAL RECEPTACLE		CONDUIT RUN DROP
-	L = TWIST LOCK	——————————————————————————————————————	CONDUIT RUN RISE CONDUIT STUB OUT
Û	JUNCTION BOX		
J	WALL MOUNTED JUNCTION BOX	T	FLOOR MOUNTED TRANSFORMER, UON HVAC SHUTDOWN MANUAL PULL STATION.
\$ ×	SWITCH, SINGLE POLE (LETTER INDICATES SWITCH LEG)	Н	PROVIDE RED ENGRAVED LAMACOID IDENTIFICATION "FOR HVAC SHUTDOWN"
		8	SEISMIC SWITCH
\$3 X	SWITCH, 3-WAY (LETTER INDICATES SWITCH LEG, TYPICAL)	G	TOXIC GAS SHUTDOWN MANUAL PULL STATION
\$ x	DIMMER SWITCH	GS	GAS MONITORING SENSOR
\$ ×	SWITCH, 4-WAY	OS	CEILING-MOUNTED OCCUPANCY SENSOR
-	TIME SWITCH	PP	POWER PACK FOR USE W/OCCUPANCY SENSOR
\$ *	(LETTER INDICATES SWITCH LEG)	Hos	WALL SWITCH OCCUPANCY SENSOR
\$ _M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION	\vdash M	MAGNETIC DOOR HOLD OPEN DEVICE
\$ s	SWEEPING SWITCH (SENTRY SWITCH)	PB —)	PUSHBUTTON STATION
		— ⊢CR	CARD READER
\$ _{LV}	LOW VOLTAGE SWITCH	H	HEAT DETECTOR - AREA
v\ •E	TRANSFER SWITCH		FIRE ALARM MANUAL PULL STATION
<u>•</u> L			FIRE ALARM STROBE (ONLY)
	HP-RATED MANUAL DISCONNECT SWITCH	B	FIRE ALARM BELL - GONG
F	HP-RATED MANUAL DISCONNECT SWITCH, FUSED		FIRE ALARM HORN
	COMBINATION MOTOR STARTER		FIRE ALARM HORN WITH STROBE
	NEMA SIZE AS INDICATED)G(LIFE SAFETY ALARM HORN WITH STROBE
	MOTOR STARTER	,G (LIFE SAFETY STROBE ONLY
	POWER POLE	FSD	FIRE/SMOKE DAMPER
	DATA/TELEPHONE OUTLET	S	SMOKE DETECTOR — DUCT
4	DATA COM JACK	<u>_</u>	FIRE SENSOR
^	4 PORT WITH RING AND PULL STRING	(2)	SMOKE DETECTOR — AREA
\longleftrightarrow	TEMPERATURE MONITORING/ALARM OUTLET	2 _R	SMOKE DETECTOR WITH RELAY BASE
\bigcirc	CEILING MOUNTED LIGHT FIXTURE	(WF)	WATER FLOW SWITCH
	CEILING MOUNTED LIGHT FIXTURE (EMERGENCY CIRCUIT)	(TS)	WATER FLOW TAMPER SWITCH
\ ~((EMENGENCI CINCOTY	(PIV)	POST INDICATOR VALVE
Q	UPLIGHT FIXTURE		
	UPLIGHT FIXTURE (EMERGENCY CIRCUIT)	(#)	MOTOR OUTLET (# INDICATES MOTOR HP)
_		(A) (G)	AMMETER GENERATOR
\bigcirc	WALL MOUNTED LIGHT FIXTURE (EMERGENCY CIRCUIT)	Ī	THERMOSTAT
———	FLUORESCENT STRIP FIXTURE	©	VOLTMETER
	2' x 4' FLUORESCENT FIXTURE ON EMERGENCY		GROUNDING ELECTRODE
	OD HANGARTOLIES PAROLET LIGHT OF STREET		
	OR UNSWITCHED "NIGHT LIGHT" CIRCUIT	(8)	COPPERWELD GROUND ROD
	FLUORESCENT FIXTURE		GROUND ROD AND INSPECTION WELL
	FLUORESCENT FIXTURE ON EMERGENCY CIRCUIT	>	THERMAL OVERLOAD
	2' x 2' FLUORESCENT FIXTURE ON EMERGENCY	-(X)-	RELAY COIL (X INDICATES RELAY DESIGNATION)
	OR UNSWITCHED "NIGHT LIGHT" CIRCUIT		·
	CEILING MOUNTED EXIT LIGHT DARKENED SEGMENT INDICATES	X NO NC	RELAY CONTACT (X INDICATES RELAY DESIGNATION)
\otimes			
	FACE OF SIGN. ARROWS AS INDIDATED WALL MOUNTED FXIT LIGHT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CIRCUIT BREAKER
	FACE OF SIGN. ARROWS AS INDIDATED WALL MOUNTED EXIT LIGHT DARKENED SEGMENT INDICATES FACE OF SIGN. ARROWS AS INDICATED) xxx/x	(TRIP AMPS/FRAME SIZE AMPS)
	WALL MOUNTED EXIT LIGHT DARKENED SEGMENT INDICATES) xxx/x	

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL COMPLY WITH 2005 NATIONAL ELECTRICAL CODE, AS AMENDED BY 2007 CALIFORNIA ELECTRICAL CODE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ELECTRICAL CODE REQUIREMENTS WITH THE AUTHORITY HAVING JURISDICTION.

2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, PERMITS, FEES AND EQUIPMENT SPECIFIED, INDICATED OR IMPLIED IN THESE DOCUMENTS TO ACCOMPLISH THE CONSTRUCTION IN A PROFESSIONAL, WORKMANLIKE MANNER. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION TASKS INDICATED AND BOD AND LOCAL CODES AND/OR ORDINANCES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF OWNER'S REPRESENTATIVE FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK AT ISSUE

3. ANY WORK INSTALLED INCORRECTLY, OR BEFORE APPROVAL HAS BEEN OFFICIALLY GRANTED FOR THOSE ITEMS AT ISSUE, SHALL BE CORRECTED BY THE ELECTRICAL CONTRACTOR AT NO CHARGE AND BEFORE SUBSEQUENT WORK SHALL PROCEED.

4. ALL MATERIALS AND EQUIPMENT FURNISHED BY THE CONTRACTOR SHALL BE NEW AND COMPLETELY SERVICEABLE UNLESS OTHERWISE SPECIFIED.

CONTRACTOR SHALL COORDINATE ROUGH—IN AND FINAL CONNECTION REQUIREMENTS WITH THE OWNER, USER, EQUIPMENT SUPPLIERS, AND OTHER BUILDING BUILDING TRADES. BEFORE PROCEEDING WITH ANY FURTHER RELATED WORK. INSTALLATIONS SHALL BE IN FULL ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND REQUIRED CODES. CONFLICTS AND INTERFERENCES SHALL BE RESOLVED IMMEDIATELY.

6. CONTRACTOR SHALL VERIFY FINAL PLACEMENT AND CONNECTION REQUIREMENTS PRIOR TO ROUGHING—IN EQUIPMENT UTILITIES.

7. FINAL ACCEPTANCE OF WORK IN PLACE SHALL BE SUBJECT TO APPROVAL BY OWNER'S REPRESENTATIVE, INSTALLATION APPROVAL SHALL BE BASED ON APPROVED BOD AND LOCAL INSPECTION.

8. THE FINAL CORRECTED RECORD DRAWINGS, O&M MANUALS, GUARANTEES & WARRANTIES, AND INDOCTRINATION OF OWNER'S REPRESENTATIVE SHALL BE COMPLETED WITHIN TWO WEEKS AFTER THE FINAL JOB WALK—THRU.

9. CONTRACTOR SHALL KEEP PREMISES OF WORK AREA CLEAN DAILY, BROOM CLEAN AT PROJECT COMPLETION, AND SHALL REMOVE ALL REFUSE FROM SITE. ALL REMOVED MATERIALS, REFUSE, AND DEBRIS SHALL BE PROPERLY DISPOSED OF. COORDINATE WITH OWNER'S REPRESENTATIVE BEFORE HAULING FROM SITE.

10. THE CONTRACTOR SHALL INSPECT JOB SITE TO VERIFY FIELD CONDITIONS PRIOR TO THE START OF WORK. NOT ALL EXISTING CONDITIONS ARE INDICATED ON PLANS. CONCEALED CONDITIONS SHALL BE ADDRESSED WITH DUE CAUTION SUCH THAT UTILITIES AND ARE PROTECTED.

11. CONTRACTOR SHALL CUT AND PATCH HOLES IN EXISTING CONSTRUCTION AS REQUIRED WITH DUE CAUTION SUCH THAT STRUCTURAL INTEGRITY IS MAINTAINED. OBTAIN DIRECTION FROM STRUCTURAL ENGINEER PRIOR TO SAW CUTTING OR BORING HOLES IN CONCRETE WALLS AND FLOORS AND OTHER STRUCTURAL MEMEBERS.

12. CONTRACTOR SHALL WARRANTY ALL NEW WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE AND SHALL REPAIR OR REPLACE ANY DEFECTIVE WORK INCLUDING MATERIAL, LABOR AND EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER DURING THIS TIME IF SAME IS FOUND TO BE DEFECTIVE.

13. ALL WORK SHOWN ON DRAWINGS IS IN PART SCHEMATIC, INTENDED TO CONVEY SCOPE OF WORK AND GENERAL LAYOUT. VERIFY ALL EXISTING CONDITIONS AND MAKE ADJUSTMENTS AS REQUIRED.

14. COMPLY WITH OWNER'S PROCEDURE TO SCHEDULE POWER OUTAGE. SUCH REQUEST SHALL DELINEATE THE PARTICULAR CIRCUIT, EQUIPMENT IN QUESTION, TIME OF DAY AND THE NUMBER OF HOURS THE POWER SHALL BE OFF. THE DURATION OF OUTAGE SHALL BE KEPT TO A MINIMUM.

15. CONTRACTOR SHALL PROVIDE TYPED UPDATED/CORRECTED PANEL DIRECTORIES WITHIN EACH PANELBOARD PRIOR TO FINAL ACCEPTANCE OF WORK IN PLACE.

16. RESPONSE TO THE FINAL WALK—THRU PUNCH LIST SHALL BE PROVIDED WITHIN A WEEK AFTER THE WALK—THRU.

17. SYMBOLS AND ABBREVIATIONS ARE SHOWN FOR REFERENCE ONLY. NOT ALL OF THEM MAY BE USED OR SHOWN ON THE DRAWING.

18. LABEL ALL NEW WIRING DEVICES WITH PANEL BOARD AND CIRCUIT NUMBER ON COVER PLATE. USE FLEXIBLE LAMINATED TAPE WITH LETTER PRINTED ON TAPE BY MACHINE.

19. UNLESS OTHERWISE NOTED FOR ALL NEW WORK, ROUTE CONDUIT IN CEILING SPACES OR CONCEALED IN WALLS. WHERE APPROPRIATE, EXPOSED CONDUIT SHALL BE ROUTED AT RIGHT ANGLES, PLUMB AND PERPENDICULAR TO HORIZONTAL SURFACES, AND PARALLEL TO WALL LINES, DUCTS, FIXTURES, AND OTHER LINEAR EDGES AND OBJECTS.

20. FIELD DETERMINE EXACT ROUTING OF NEW CONDUIT AND PROVIDE PULL BOXES AS REQUIRED.

21. ALL NEW INTERIOR OUTLET, FOR ALL NEW WORK JUNCTION AND PULL BOXES SHALL BE METALLIC, SIZED PER CODE FOR THE NUMBER OF CONDUCTORS THEREIN. CIRCUIT NUMBERS/PANEL NUMBERS SHALL BE WRITTEN IN 1/4" HIGH LETTERS WITH INDELIBLE INK ON THE BOX COVER. USE PREPRINTED, ADHESIVE BACKED CLOTH MARKERS TO IDENTIFY EACH UNGROUNDED CIRCUIT CONDUCTOR AT EACH BOX OR PANEL LOCATION.

22. NEW WIRE SPLICES SHALL BE MADE WITH INSULATED, SPRING-TYPE CONNECTORS FOR COPPER CONDUCTORS #8 AWG AND SMALLER (3M "SCOTCHLOK", IDEAL "WING-NUT", OR APPROVED EQUAL).

23. ALL NEW CONDUCTORS FOR POWER AND LIGHTING BRANCH CIRCUITS SHALL BE #12 AWG MINIMUM.

24. SEAL ALL NEW PENETRATIONS THROUGH FIRE RATED CORRIDOR AND/OR ROOM WALLS, WITH SUITABLE FIRESTOP MATERIAL TO MATCH EXISTING FIRE RATING.

25. ALL MATERIAL EXPOSED TO THE WEATHER SHALL BE OF WEATHERPROOF CONSTRUCTION.

26. ALL BUILDING WIRE SHALL BE COPPER, STRANDED, INSULATED. INSULATION COLOR CODING SHALL MATCH EXISTING.

27. FIRE ALARM SYSTEM IS DESIGN—BUILD BY ELECTRICAL CONTRACTOR. THE FA SYSTEM TO INCLUDE BUT NOT LIMITED TO SMOKE DETECTORS, PULL STATIONS, HORN/STROBES AND OTHER DEVICES AS NEEDED. ALSO SEE HVAC, PLUMBING AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENT. SUBMIT ALL DRAWINGS AND CALCULATIONS TO THE CITY FIRE MARSHALL AND OBTAIN APPROVAL PRIOR TO CONSTRUCTION. PERFORM PERFOMANCE/ACCEPTANCE TEST AT COMPLETION.

28. MOUNTING HEIGHT OF DEVICES SUCH AS SWITCHES, WALL CONVENIENCE OUTLETS TO MATCH EXISTING.

29. A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH 05 NEC ARTICLE 113.3

30. ALL ELECTRICAL SWITCHBOARD AND PANELBOARD SHALL BE MARKED WARNING QUALIFIED PERSONNELS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS, PER 05 NEC ART 110-16 AND NFPA-70E-2000. PROVIDE ARC FLASH CALCULATION.

31. DO NOT RUN CONDUITS IMMEDIATELY ABOVE LIGHT FIXTURES.

ACCURDANCE WITH CEC TABLE 250.122.

32. LOCATE CONDUITS IN CEILING SPACE AT MINIMUM 8" ABOVE TILES. COORDINATE WITH OTHER TRADES.

33. UPON TRACING OUT ALL CIRCUITS TO REMAIN, COORDINATE WITH DIVISION-15 & LABEL ALL CB'S CLEARLY INDICATING THE LOAD SERVED. DO NOT START DEMOLITION UNTIL THIS TASK IS COMPLETED. SUBMIT UPDATED ONE-LINE DIAGRAM FOR OWNER REVIEW.

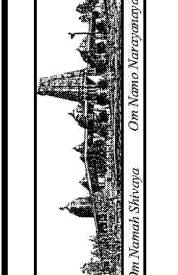
34. ELECTRICAL RECEPTACLES AND SWITCHES SHALL BE AT 15' MINIMUM AND 48' BAXIMUM FROM FLOOR RESPECTIVELY PER CBC-1117B.6.

35. PROVIDE EQUIPMENT GROUNDINGS CONDUCTOR FOR ALL PANELS AND EQUIPMENT IN

	DRAWING INDEX
	ELECTRICAL
SHEET NO.	TITLE
E0.0	SYMBOLS AND GEN. NOTES
E-1	LIGHTING FLOOR PLAN
E-2	POWER FLOOR PLAN
E-3	ROOF POWER PLAN
E-4	SINGLE LINE & PANEL SCHEDULES

		ATIO	
	NOT ALL ABBREVIATION	NS HAVE	BEEN USED
A	AMPERE	мн	METAL HALIDE
AC AFF	ABOVE COUNTER ABOVE FINISHED FLOOR	MIN MLO	MINIMUM MAIN LUG ONLY
AFG	ABOVE FINISHED GRADE	MTD	MOUNTED
AIC	AMPERE INTERRUPTING CAPACITY	MTG	MOUNTING
AL	ALUMINUM	MTG HT	MOUNTING HEIGHT
AMPS	AMPERES	<n></n>	NEW NORMALLY OLOSED
AWG BCC	AMERICAN WIRE GAGE BARE COPPER CONDUCTORS	NC NEC	NORMALLY CLOSED NATIONAL ELECTRICAL CODE
BKR	BREAKER	NECA	NATIONAL ELECTRICAL CONTRACTORS
BLDG	BUILDING	.,,,	ASSOCIATION
C	CONDUIT	NEMA	NATIONAL ELECTRICAL MANUFACTURERS
CAC	CALIFORNIA ADMINISTRATIVE CODE	MEDA	ASSOCIATION
CB CEC	CIRCUIT BREAKER CALIFORNIA ELECTRICAL CODE	NFPA NIC	NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT
CH	CHAIN	NO NO	NORMALLY OPEN
CKT	CIRCUIT	NTS	NOT TO SCALE
CLG	CEILING	OAS	OR ACCEPTABLE SUBSTITUTE
CO	CONDUIT ONLY	OH	OVER HEAD
CT CU	CURRENT TRANSFORMER COPPER	OSA OSHPD	OFFICE OF STATE ARCHITECT
DIAG	DIAGRAM	USHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
DIV	DIVISION	PA	SPEAKER
D	DEEP	PC	PHOTOCELL
<e></e>	EXISTING	PH	PHASE
ELEC	ELEVATOR ELECTRICAL	PNL POC	PANEL CONNECTION
EMER	EMERGENCY	PS PS	POINT OF CONNECTION POWER SUPPLY
EMT	ELECTRICAL METALLIC TUBING	PT	POTENTIAL TRANSFORMER
EOL	END OF LINE	PVC	POLYVINYL CHLORIDE (CONDUIT)
EP0	EMERGENCY POWER OFF	RCPT	RECEPTACLE
EQPT	EQUIPMENT	<re> <rl></rl></re>	REMOVE EXISTING RELOCATE
<f> FA</f>	FUTURE FIRE ALARM	REFR	REFRIGERATOR
FACP	FIRE ALARM CONTROL PANEL	RM	ROOM
FBO	FURNISHED BY OTHERS	RPM	REVOLUTIONS PER MINUTE
FIXT	FIXTURE	SAD	SEE ARCHITECTURAL DRAWING
FLA GFI	FULL LOAD AMPERES	SMD SPD	SEE MECHANICAL DRAWING SEE PLUMBING DRAWING
GND	GROUND FAULT INTERRUPTER GROUND	SSD	SEE STRUCTURAL DRAWING
GRSC	GALVANIZED RIGID STEEL CONDUIT	SQ	SQUARE
HID	HIGH INTENSITY DISCHARGE	SW	SWITCH
HOA	HAND/OFF/AUTO	SWBD	SWITCHBOARD
HP HVAC	HORSE POWER HEATING VENTILATING & AIR CONDITIONING	TEL TYP	TELEPHONE
ISC	INTERRUPTING SHORT CIRCUIT CAPACITY	UBC	TYPICAL UNIFORM BUILDING CODE
JB	JUNCTION BOX	ÜĞ	UNDERGROUND
KV	KILOVOLT	UON	UNLESS OTHERWISE NOTED
KVA	KILOVOLT AMPERE	UPS	UNINTERRUPTIBLE POWER SUPPLY
KVAR KW	KILOVOLT AMPERE REACTIVE KILOWATTS	V	VOLTS VOLT AMPERE
M	MOTOR	VA VAR	VOLT AMPERE REACTIVE
MAX	MAXIMUM	VDC	VOLTS DIRECT CURRENT
MCC	MOTOR CONTROL CENTER	VFD	VARIABLE FREQUENCE DRIVE
MCCB	MOLDED CASE CIRCUIT BREAKER THOUSAND CIRCULAR MILLS (KCMIL)	WD	WATT
MCM MCS	MOLDED CASE SWITCH	WP XFMR	WEATHERPROOF TRANSFORMER
MCP	MOTOR CIRCUIT PROTECTOR	XFR	TRANSFER
MECH	MECHANICAL	XP	EXPLOSION PROOF
MFG MFR	MANUFACTURING MANUFACTURER		

REVISIONS BY O5-24-10 ISSUED FOR PLAN CHECK SR

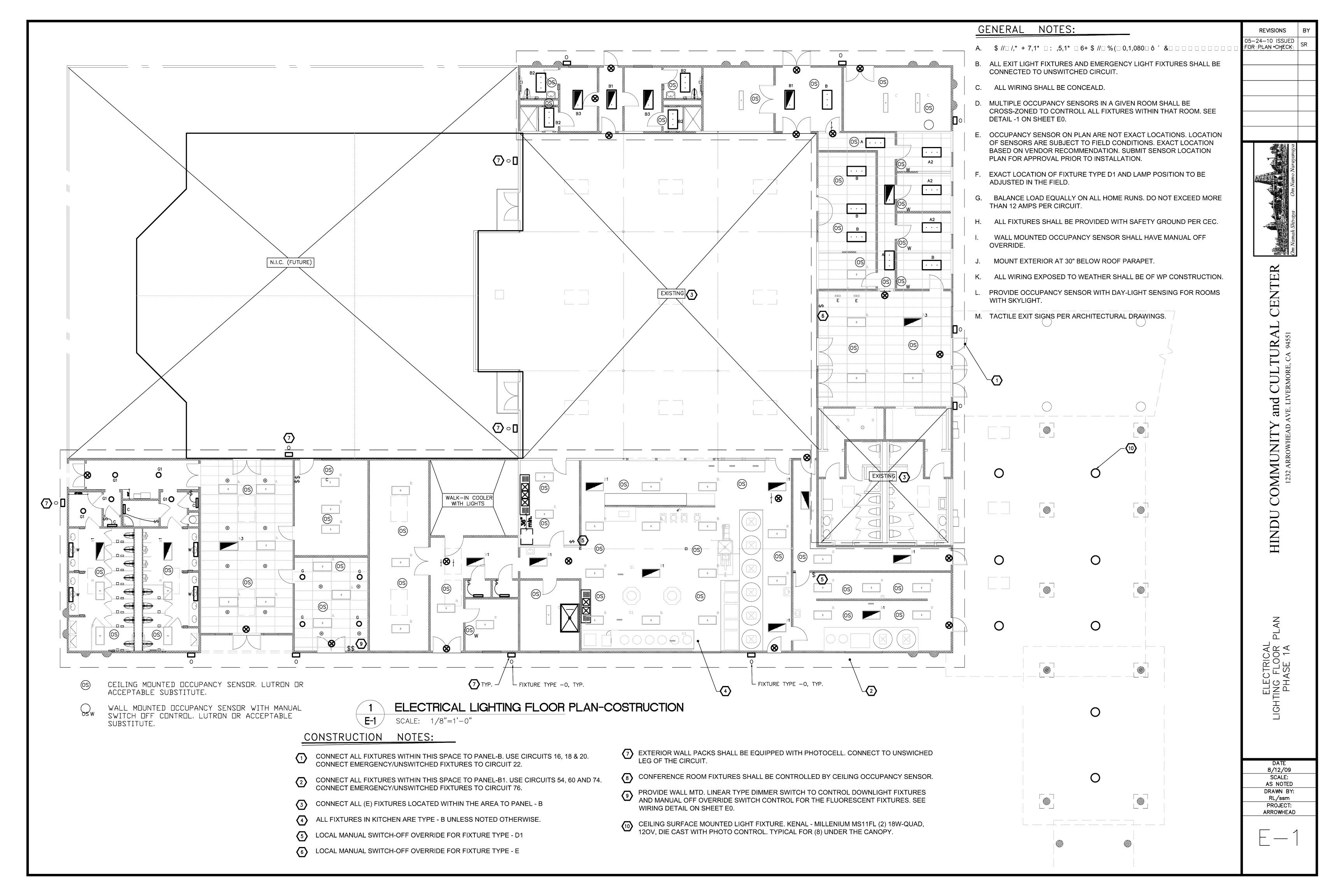


NDU COMMUNITY and CULTURAL CE 1232 ARROWHEAD AVE. LIVERMORE, CA 94551

ELECTRICAL MBOLS AND GEN. NOT PHASE 1A

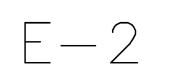
DATE
8/12/09
SCALE:
AS NOTED
DRAWN BY:
RL/ssm
PROJECT:
ARROWHEAD

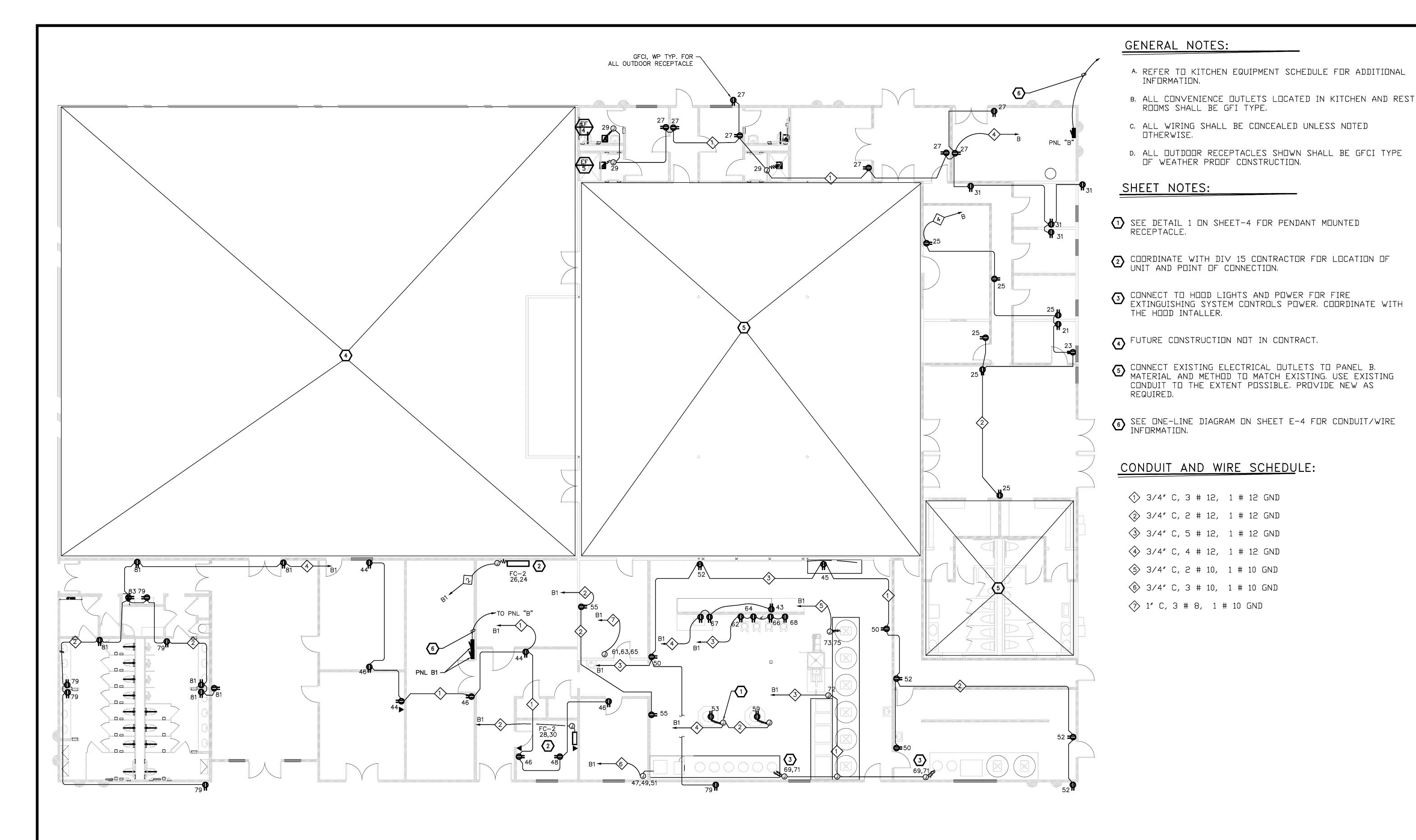
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REVISIONS

05-24-10 ISSUED SR



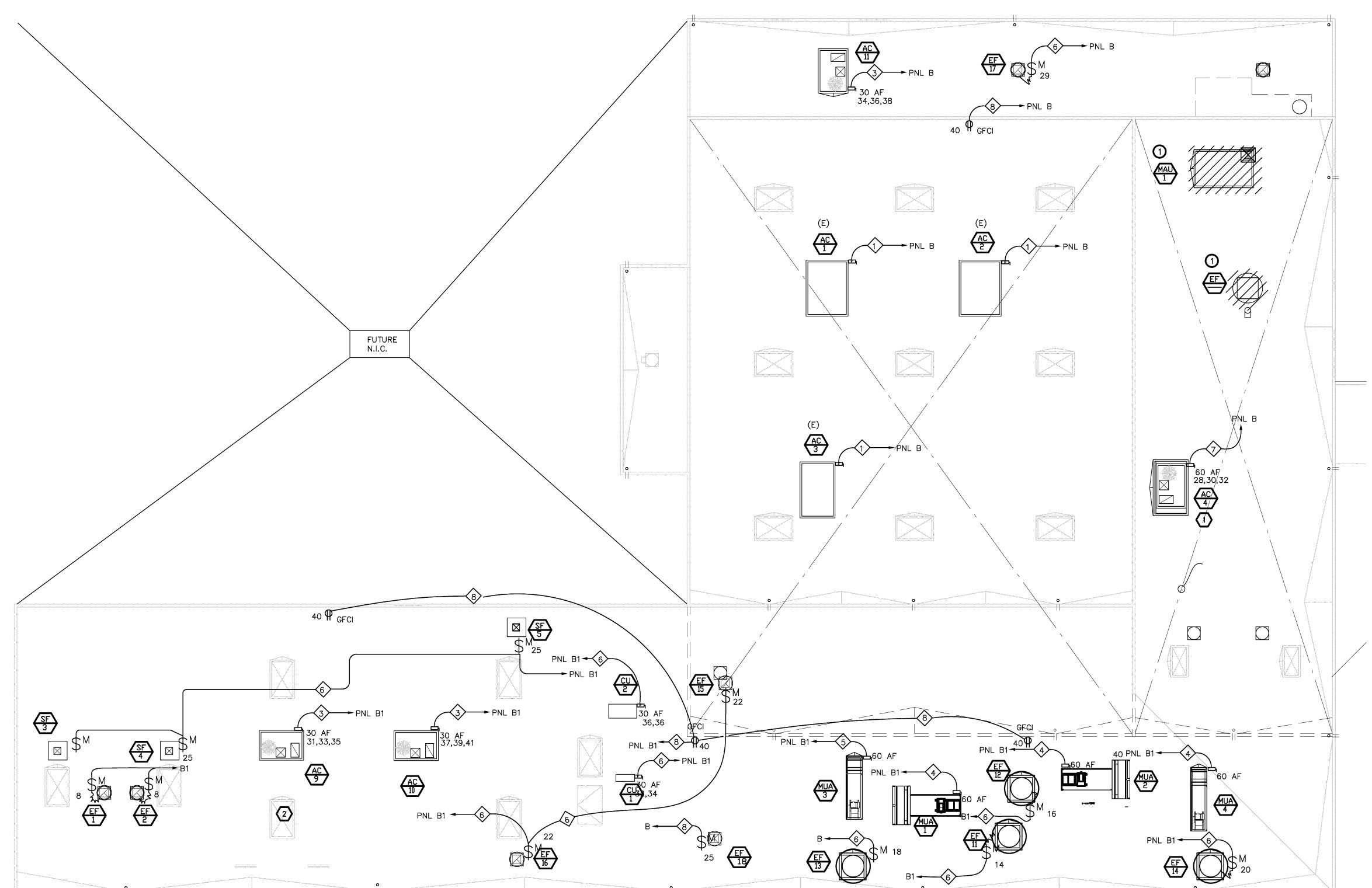


ELECTRICAL POWER FLOOR PLAN-COSTRUCTION

E-2 SCALE: 1/8"=1'-0"

REVISIONS

E-3



GENERAL NOTES:

- 1. CONFIRM WITH MECHANICAL (DIVISION 15) FOR MOTOR H.P. AND MINIMUM CIRCUIT AMPS PRIOR TO ROUGH-IN.
- 2. PROVIDE MOTOR H.P. RATED DISCONNECT SWITCH AS NOTED IN ACCORDANCE WITH ART. 430-101 AND 113 OF CEC. PROVIDE FUSES.
- 3. LOCATE GFI OUTLET WITH IN 25' OF HVAC UNITS.
- 4. ALL WIRING AND EQUIPMENT EXPOSED TO WEATHER SHALL BE WEATHER PROOF CONSTRUCTION,

DEMOLITION NOTES:

- REMOVE ELECTRICAL POWER TO THE (E) MAKE-UP AIR UNIT AND EXAUST FAN. SCHEDULE THE REMOVAL OF POWER WITH CONSTRUCTION MANAGER.
- ALSO SEE DWG, S-1 FOR GENERAL DEMOLITION WORK AND NOTES.

CONSTRUCTION NOTES:

- REMOVE (E) UNIT AND REPLACE WITH (N) UNIT AS SCHEDULED ON DWG. M0.1.
- INSTALL (N) UNIT AS SCHEDULED ON DWG.
 MO.1. COORDINATE WITH ELECTRICAL PLANS
 FOR POWER AND STRUCTURAL/ARCHITECTURAL
 FOR EXACT LOCATION.

CONDUIT AND WIRE SCHEDULE:

- ② 1-1/4" C, 3 # 4, 1 # 8 GND
- ③ 1" C, 3 # 8, 1 # 10 GND
- 4 1" C, 2 # 4, 1 # 8 GND
- ⟨5⟩ 1″ C, 2 # 8, 1 # 10 GND
- → 3/4" C, 3 # 6, 1 # 10 GND

	SCAL	E: NONE						`		30	ALL.
			PANI	EL B			DIRECTORY				
CIRC	TRIP	NO.	LOAD SERVED	PHASE	LOAD '	VA	LOAD SERVED	NO.	TRIP	CIRC	1
NO.	AMPS	POLE		Α	В	С		POLE	AMPS	NO.	
1	90	3	(E) AC-1	6720 800			(E) 20A CONV. OUTLETS	1	20	2	
3	90	3	(E) AC-1		6720 800		(E) 20A CONV. OUTLETS	1	20	4	
5	90	3	(E) AC-1			6720 800	(E) 20A CONV. OUTLETS	1	20	6	
7	90	3	(E) AC-2	6720 1500			(E) R- STAGE	1	30	8	

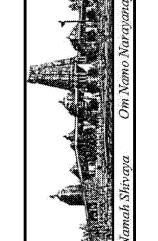
			PANEL				DIRECTORY			
CIRC NO.	TRIP AMPS	NO. POLE	LOAD SERVED	PHASE A	LOAD B	VA I C	LOAD SERVED	NO. POLE	TRIP AMPS	CIRC NO.
1	90	3	(E) AC-1	6720 800			(E) 20A CONV. OUTLETS	1	20	2
3	90	3	(E) AC-1		6720 800		(E) 20A CONV. OUTLETS	1	20	4
5	90	3	(E) AC-1			6720 800	(E) 20A CONV. OUTLETS	1	20	6
7	90	3	(E) AC-2	6720 1500			(E) R- STAGE	1	30	8
9	90	3	(E) AC-2	1,000	6720 1500		(E) R- STAGE	1	30	10
11	90	3	(E) AC-2		,,,,,	6720 1500	(E) R- SIDEWALL	1	30	12
13	70	3	(E) AC-3	5880 1500		,,,,,	(R) R - SIDEWALL	1	30	14
15	70	3	(E) AC-3		5880 1000		(E) LIGHTS	1	20	16
17	70	3	(E) AC-3		1.2.2.	5880 1000	LIGHTS	1	20	18
19	20	1	(E) FANS- ASSY AREA	500 1000		1 - 22	LIGHTS	1	30	20
21	20	1	SERVER ROOM	1000	400 600		EMER. FIXTURES	1	30	22
23	20	1	SERVER ROOM		000	400	SPARE	1	20	24
25	20	1	(E)CONV. OUTLETS	400			SPARE	1	20	26
27	20	1	(E) CONV. OUTLETS		400 3600		(E) AC-4	3	40	28
29	20	1	EX FANS 4, 5		0000	400 3600	(E) AC-4	3	40	30
31	20	1	CON. OUTLETS	600 3600		0000	(E) AC-4	3	40	32
33	20	1	SPARE		2500		AC-11	3	30	34
35	20	1	SPARE			2500	AC-11	3	30	36
37	400	3	SUB PNL B1	37001 2500			AC-11	3	30	38
39	400	3	SUB PNL B1		29655 400		ROOF CONV. OUTLETS	1	20	40
41	400	3	SUB PNL B1		100	24883				42
	ı	1	TOTAL	67721	59175	54403	10	00 % DIVE	RSITY	
	208		(E) MAX DEMAND FOR PNL B		_ VA		AMPS FROM DEMAND READING	0::5=	• • •	
		- GND	(N) PNL B LOAD & PNL B1 DEMAN		_	280		ED SURF		
WIRE RATED	800	_	MAIN BREAKE MINIMUM AI			-		ED <u>ELEC RI</u> OM MSB	VI	-

TOTAL DEMAND FOR PANEL B INCLUDES EXISTING DEMAND PLUS NEW LOADS (75+280) AMPS = 355 AMPS

		, , , , , , , , , , , , , , , , , , , 		1			1			_
CIRC NO.	TRIP AMPS	NO. POLE	LOAD SERVED	PHASE	LOAD VA	С	LOAD SERVED	NO. POLE	TRIP AMPS	CIRC NO.
1	40	3	SPARE	0			SPARE	3	30	2
3	40	3	SPARE		0		SPARE	3	30	4
5	40	3	SPARE			0	SPARE	3	30	6
7	60	2	MUA1	4300 600			EF1, EF2, EF3, EF6	1	20	8
9	60	2	MUA1		4300		SPARE	1	20	10
11	60	2	MUA2			4300 500	EF18	1	20	12
13	60	2	MUA2	4300 2300			EF11	1	30	14
15	40	2	MUA3	-	2730 2300		EF 12	1	30	16
17	40	2	MUA3			2730 1200	EF13	1	20	18
19	60	2	MUA4	4300 2300		1200	EF14	1	30	20
21	60	2	MUA4	2000	4300 600		EF15, EF16 & EF17	1	20	22
23	20	1	SPARE			80	FC1	2	20	24
25	20	1	SF-3, SF-4, SF-5	1200			FC1	2	20	26
27	30	1	SPARE		120		FC2	2	20	28
29	30	1	SPARE		120	120	FC2	2	20	30
31	30	3	AC-9	2520 866		120	CU1	2	20	32
33	30	3	AC-9	800	2520 866		CU1	2	20	34
35	30	3	AC-9		000	2520 1250	CU2	2	20	36
37	30	3	AC-10	2520 1250		1230	CU2	2	20	38
39	30	3	AC-10	1230	2520		ROOF CONV. OUTLETS	1	20	40
41	30	3	AC-10		600	2520				42
			TOTAL	26536	20256	16420		100 % DIVE	ERSITY	1
VOLTS	208		3 PH DEMAND POWER		VA	175				
PHASE	3	_	3 PH CONNECTED LOAD		VA	175		TED SURF		
WIRE	400	_ GND	MAIN BREAKER MINIMUM AIC				LOCA" FED FR	red <u>see i</u>	PLAN	

CIRC	TRIP	NO.	LOAD SERVED	PHASE	SEC -2 LOAD VA		DIRECTORY LOAD SERVED	NO.	TRIP	CIRC
NO. 43	AMPS 20	POLE 1	PROOF-HOT CABINET	1920 600	В		CON OUTLETS	POLE 1	AMPS 20	NO. 44
45	20	1	REFRIG WORK TABLE	000	1500 600		CON OUTLETS	1	20	46
47	30	3	STEAMER		- 000	2760 500	OFFICE	1	20	48
49	30	3	STEAMER	2760 600			CON OUTLETS	1	20	50
51	30	3	STEAMER		2760 600		CON OUTLETS	1	20	52
53	20	1	RICE MIXER			1000 1300	LIGHTING	1	20	54
55	20	1	GARBAGE DISPOSER	960			OUTLETS KIT, OFFICE	1	20	56
57	20	1	FRYER		100		OUTLETS KIT, OFFICE	1	20	58
59	20	1	RICE MIXER			960 1300	LIGHTING	1	20	60
61	40	3	DISH WASHER	3600 600			PLANETARY MIXER	1	20	62
63	40	3	DISH WASHER		3600 600		PLANETARY MIXER	1	20	64
65	40	3	DISH WASHER			3600 600	PLANETARY MIXER			66
67	20	1	AUTO IDLI DISPOSER	960 600			PLANETARY MIXER			68
69	20	1	HOOD LIGHTS		600 600		PLANETARY MIXER			70
71	20	1	HOOD FIRE EXT SYSTEM			200 200	FRYER / HOOD	1	20	72
73	30	2	FLOOR TORTILLA MACHINE	2900 1300			LIGHTING	1	20	74
75	30	2	FLOOR TORTILLA MACHINE		2900 1300		EMERGENCY FIXTURES	1	20	76
77	20	1	ROOF OUTLETS			600	SPACE			78
79	20	1	RR'S & LOBBY	600			SPACE			80
81	20	1	RR'S & LOBBY		600		SPACE			82
83										84
			TOTAL	16100	14460	13020		65 % DIVE	RSITY	

REVISIONS 05-24-10 ISSUED FOR PLAN CHECK



TER

CEN COMIN 1232 A

8/12/09 AS NOTED DRAWN BY: RL/ssm PROJECT: ARROWHEAD

 $\vdash - \bot$