



EXPIRES: July 5th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

- △ PLAN REVIEW 01.24.2020
△ PLAN REVIEW 03.13.2020
△ PLAN REVIEW 04.24.2020
△ PLAN REVIEW 08.10.2020

AEGIS MIXED-USE DEVELOPMENT

312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.01

MEFA
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
CONTACT: DENISE TAYLOR

GENERAL NOTES:

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATION CODES.
- ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- ELECTRICAL SERVICE ENTRANCE EQUIPMENT DESIGN IS BASED ON SIEMENS PRODUCTS. ACTUAL PRODUCTS INSTALLED MAY DIFFER IN SIZE AND CONFIGURATION AND SHALL BE DOCUMENTED IN FINAL PROJECT DOCUMENTS.
- COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT AND CONDUCTORS REQUIREMENTS.
- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS.
- U.G. PRIMARY FEEDER SHALL HAVE A MINIMUM 48 INCH BURY.
- U.G. SECONDARY FEEDER SHALL HAVE A MINIMUM 36 INCH BURY.
- REFER TO SHEETS E1.11 & E1.14 FOR ONE-LINE DIAGRAM, LOAD SUMMARY INFORMATION AND TYPICAL FEEDER SCHEDULE.
- SECONDARY CONDUIT SWEEPS SHALL BE MINIMUM 60 INCH RADIUS WITH A MINIMUM OF 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.
- CONTRACTOR SHALL REVIEW CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS PRIOR TO THE START OF ANY WORK.
- LOCATION AND INSTALLATION OF THE PRIMARY AND SECONDARY CONDUITS, TRANSFORMER, ETC. SHALL BE PROVIDED PER CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS.
- CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND SPECIFICATIONS IN DETAIL AND REFER TO THE DOCUMENTS THROUGHOUT THE CONSTRUCTION.

KEYED POWER NOTES:

- ROUTE (3) 3/4" PVC CONDUIT W/PULL STRING FROM BUILDING 'B' ELECTRICAL ROOM #198 TO PARKING LOT LOCATION FOR FUTURE EV CHARGING STATION. STUB-UP FLUSH WITH FINISHED GRADE AND CAP AT BOTH ENDS. RESERVE (4) 40A, 208V, 1P CIRCUITS IN PANEL 'M1' FOR FUTURE ELECTRICAL CONNECTION.
- ROUTE ONE 3/4" PVC CONDUIT W/PULL STRING FROM BUILDING 'A' ELECTRICAL ROOM #292 TO PARKING LOT LOCATION FOR FUTURE EV CHARGING STATION. STUB-UP FLUSH WITH FINISHED GRADE AND CAP AT BOTH ENDS. RESERVE ONE 40A, 208V, 1P CIRCUITS IN PANEL 'M1' FOR FUTURE ELECTRICAL CONNECTION.
- PROVIDE (2) 3/4" PVC CONDUIT W/PULL STRING, ROUTED UNDERGROUND FROM MAINTENANCE ROOM #192A TO BUILDING EXTERIOR FOR FUTURE CCTV CONNECTIONS AND CAP AT BOTH ENDS.
- PROVIDE (1) 3/4" PVC CONDUIT W/PULL STRING, FOR DATA CABLE TO EACH FUTURE EV CHARGING STATION, ROUTED UNDERGROUND FROM ELECTRICAL ROOM #193A OR #198B TO EACH LOCATION. STUB-UP FLUSH WITH FINISHED GRADE AND CAP AT BOTH ENDS.
- PROVIDE (1) 3/4" PVC CONDUIT W/PULL STRING, ROUTED UNDERGROUND FROM RISER ROOM #196B TO BUILDING EXTERIOR FOR IRRIGATION AND CAP AT BOTH ENDS. VERIFY EXACT LOCATION WITH LANDSCAPING AND/OR CIVIL.

CONTRACTOR TO LOCATE ALL
UNDERGROUND UTILITIES
BEFORE TRENCHING.

UTILITY REQUIREMENTS

- CUSTOMER TO PROVIDE ALL TRENCHING AND BACKFILLING. TRENCH TO BE 36 INCHES DEEP AND 30 INCHES WIDE, MEASURED FROM FINAL GRADE.
- ALL UTILITY CONDUCTORS TO BE INSTALLED IN GRAY SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). CLARK PUBLIC UTILITIES TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. ALL ELBOWS TO BE 36 INCH (MIN) RADIUS. ALL BENDS MAY BE FACTORY MADE. IF MORE THAN 270 DEGREES OF BENDS OR IF RUN IS LONGER THAN 150 FEET, BENDS MUST BE RIGID STEEL.
- CONSULT WITH UTILITY REPRESENTATIVE 2 WEEKS BEFORE STARTING MAIN POWER TRENCHING FOR A PRE-CONSTRUCTION CONFERENCE. INCLUDED IN THIS CONFERENCE WILL BE EXCAVATOR, CPU, TELCO, CATV, AND GAS.
- ELECTRICAL UTILITY PROVIDER:
CLARK PUBLIC UTILITIES
CONSTRUCTION SERVICES
360.992.8558

INCOMING ELECTRICAL SERVICE DIVISION OF RESPONSIBILITY					
	ELEC. CONTR.	UTILITY CO.		ELEC. CONTR.	UTILITY CO.
PRIMARY CONDUIT	[X]	☐	SECONDARY CONDUIT	[X]	☐
PRIMARY CONDUCTORS	[X]	☐	SECONDARY CONDUCTORS	[X]	☐
TRANSFORMER	[X]	☐	C/T ENCLOSURE	[X]	☐
TRANSFORMER PAD	[X]	☐	C/T's	☐	[X]
PRIMARY GROUNDING	[X]	☐	METER BASE	[X]	☐
BOLLARDS	[X]	☐	METER	☐	[X]
TRANSFORMER CONNECTIONS	[X]	☐	METER GROUNDING	[X]	☐
ELECTRIC ROOM DOOR	[X]	☐			
LOCK BOX (OBTAIN FROM POWER COMPANY)		☐			
NOTES: 1. CONTACT AND COORDINATE ALL REQUIREMENTS AND RESPONSIBILITIES WITH SERVING UTILITY COMPANIES PRIOR TO SUBMITTING BID. 2. ALL SERVICE INSTALLATION WORK SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES.					
POWER UTILITY CONTACT: CHARLIE BEATTY CLARK PUBLIC UTILITIES OFFICE: (360) 992-8721 CELL: (360) 253-0281 EMAIL: CBEATTY@CLARK PUD.COM		TELEPHONE UTILITY CONTACT: MANDY STUBBLEFIELD CENTURYLINK PHONE: MANDY.STUBBLE FIELD@CENTURY LINK.COM		CABLE TV UTILITY CONTACT: BOB MILLAR COMCAST PHONE: (360) 318-1128 EMAIL: BOB.MILLAR@CO MCAST.COM	
INTERFACE ENGINEERING, INC. HAS CONTACTED THE UTILITIES BUT HAS NOT RECEIVED IN WRITING THE FINAL REQUIREMENTS FROM CLARK PUBLIC UTILITIES, CENTURYLINK, COMCAST. THESE DRAWINGS INDICATE OUR BEST ESTIMATION OF THEIR REQUIREMENTS. PRIOR TO BID AND PRIOR TO ANY CONSTRUCTION CONTACT THE UTILITIES AND OBTAIN IN WRITING THEIR REQUIREMENTS.					

E. 12TH ST.

BUILDING 'B'

SECONDARY SERVICE
FEEDERS TO BUILDING 'B'BLDG 'B'
ELECT ROOMSECONDARY SERVICE
FEEDERS TO BUILDING 'A'BLDG 'A'
ELECT ROOM

BUILDING 'A'

PRIMARY SERVICE
FEEDERS PER
ELECTRICAL
UTILITY PROVIDERPROPOSED UTILITY
COLLECTOR CABINET
LOCATIONPROPOSED UTILITY
TRANSFORMER
LOCATION

PROPERTY LINE

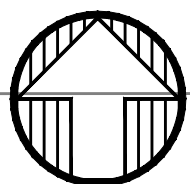
PROPERTY LINE

GENERATOR CONDUITS
SEE E1.11 & E1.14PROPOSED GENERATOR LOCATION
PROVIDE FENCE AND/OR
PROTECTIVE BOLLARDSCLARK PUBLIC
UTILITY'S FEEDERS

EXISTING BUILDING

EXISTING BUILDING
(DEMOLISHED UNDER
SEPARATE PERMIT)

E. EVERGREEN BLVD.



1

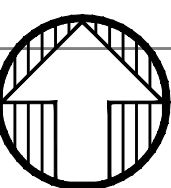
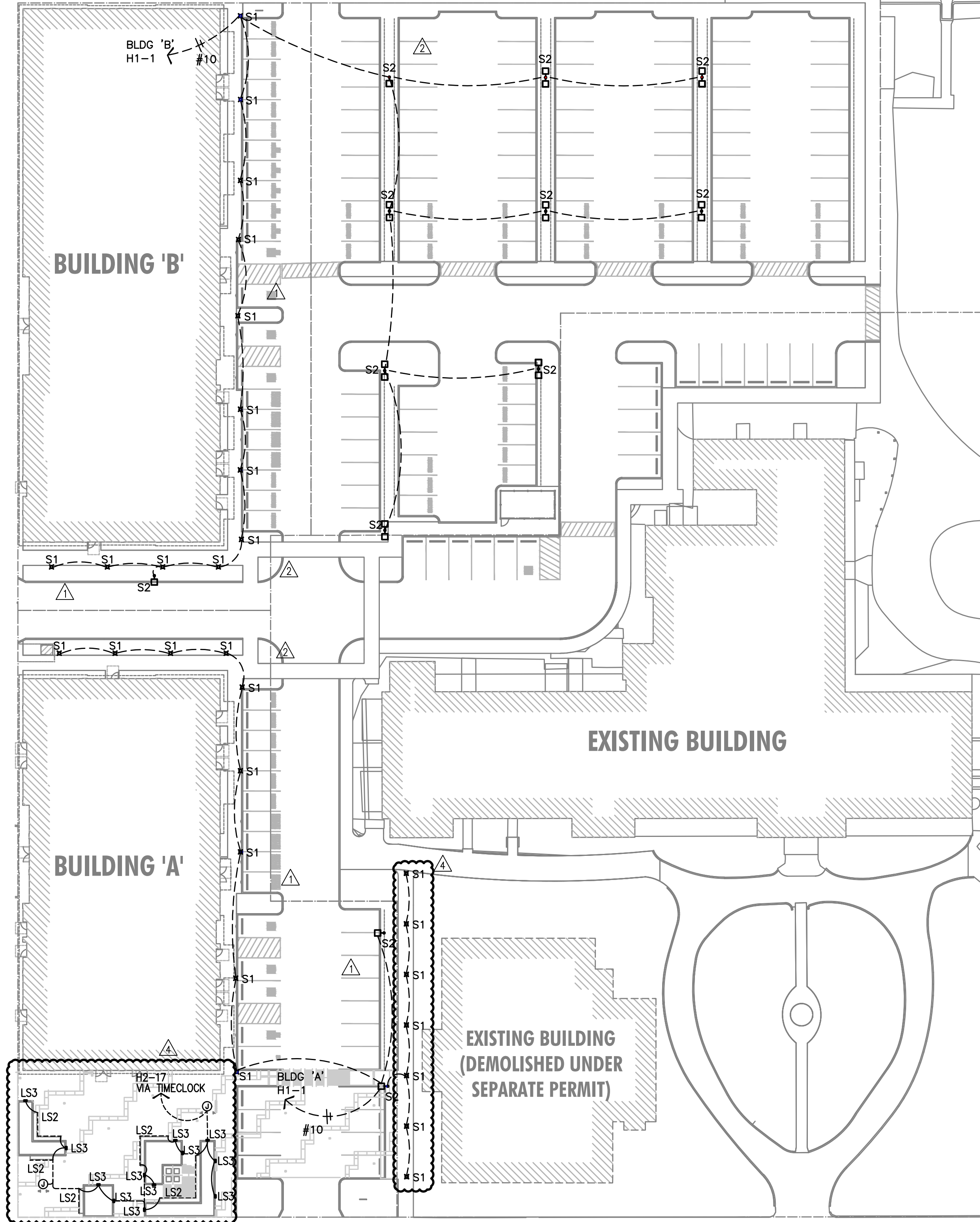
E1.01

SITE ELECTRICAL PLAN

SCALE: 1" = 30'-0"

E. 12TH ST.

C STREET



1
E1.02

SITE LIGHTING PLAN

SCALE: 1" = 30'-0"

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STUDIO

3

ARCHITECTURE
INCORPORATED

275 COURT ST. NE
SALEM, OR 97301-3442
P: 503.390.6500
www.studio3architecture.com



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E1.02

Aegis I – Bldg A Main distribution Center "MDP-A"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
PANEL H1/H2	6,606	32,880	1,500		13,134		
PANEL M1/M2			25,200		10,200	80,139	
PANEL E1	6,250	1,500	0	0	10,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Fire Pump						43,200	
Residential Meters (MC-A1)				376,000			
Retail Meters (MC-A2)				138,000			
SUBTOTAL	12,856	34,380	26,700	514,000	33,334	168,891	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	16,070	22,190	26,700	514,000	33,334	168,891	10,800

CONN LOAD: 833 KVA

VOLTS:	208	3ph
TOTAL CALC:	792	KVA
CALC AMPS:	2198	AMPS

Aegis I – Bldg A Emergency Distribution Panel "EDP-A"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel E1	5,750	1,500	0		9,000	2,352	
Elevator 1 (40hp)						43,200	43,200
SUBTOTAL	5,750	1,500	0	0	9,000	45,552	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	7,188	1,500	0	0	9,000	45,552	10,800

CONN LOAD: 105 KVA

VOLTS:	208	3ph
TOTAL CALC:	74	KVA
CALC AMPS:	206	AMPS

Aegis I – Bldg "A" Commercial Meter Center "MC-A2"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Retail Space 'A' 1777sf @ 30w/sf				53,500			
Retail Space 'B' 845sf @ 15w/sf				13,000			
Retail Space 'C' 832sf @ 15w/sf				13,000			
Retail Space 'D' 1015sf @ 15w/sf				15,225			
Retail Space 'E' 933sf @ 30w/sf				28,000			
SUBTOTAL	0	0	0	122,725	0	0	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	122,725	0	0	0

CONN LOAD: 123 KVA

VOLTS:	208	3ph
TOTAL CALC:	123	KVA
CALC AMPS:	341	AMPS

Aegis I – Bldg A & B Generator Load Summary							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel EDP-Bldg A				105,000			
Panel EDP-Bldg B				152,000			
Fire Pump Bldg A (40HP)						43,200	43,200
Fire Pump Bldg B (40HP)						43,200	
SUBTOTAL	0	0	0	257,000	0	86,400	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	257,000	0	86,400	10,800

CONN LOAD: 387 KVA

VOLTS:	208	3ph
TOTAL CALC:	354	KVA
CALC AMPS:	983	AMPS

Aegis I – Bldg A																			
RESIDENTIAL LOAD SUMMARY "MC-A1"																			
UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	RESIDENTIAL LOAD SUMMARY "MC-A1"										
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6			LIG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)
Studio	---	2	2	2	2	---	8	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	5500
1bed/1bath	---	7	7	7	5	---	26	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	8000
2bed/2bath	---	4	4	4	4	---	16	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	6000
TOTALS:	0	13	13	13	11	0	50	39580	118740	150000	75000	400000	75000	60000	175000	0	45000	0	348000

VOLTS:	208	3ph
TOTAL CONNECTED:	1447	KVA
DEMAND FACTOR:	0.26	Based on Total Number of Residential Units = 46 – 50 (See N.E.C. Article: 220.84)
TOTAL CALCULATED:	376	KVA
CALCULATED AMPS:	1044	AMPS

NOTE:

BUILDING 'A' MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	8.2HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-2	EXHAUST FAN NO.2	135W	120	1		1/2"	#12	#12	SEE E.3.01
EF-3	EXHAUST FAN NO.3	1/10HP	120	1		1/2"	#12	#12	M1-20
EF-4	EXHAUST FAN NO. 4	57W	120	1		1/2"	#12	#12	M2-13
EF-5	EXHAUST FAN NO.5	1/2HP	120	1		1/2"	#12	#12	M2-13
EF-6	EXHAUST FAN NO.6		120	1		1/2"	#12	#12	M2-15
EF-7	EXHAUST FAN NO.7	1/4HP	120	1		1/2"	#12	#12	M2-19
EF-8	EXHAUST FAN NO.8	3/4HP	120	1		1/2"	#12	#12	M2-17
EF-9	EXHAUST FAN NO.9	1/2HP	120	1		1/2"	#12	#12	M2-19
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	SEE E.3.01
EH-3	ELECTRIC WALL HEATER NO.3	3.0 KW	208	1		1/2"	#12	#12	SEE E.3.01
EH-4	ELECTRIC WALL HEATER NO.4	3.0 KW	208	1		1/2"	#12	#12	H1-26
EH-5	ELECTRIC WALL HEATER NO.5	3.0 KW	208	1		1/2"	#12	#12	M1-14,16,18
EH-6	ELECTRIC WALL HEATER NO.1	2.0 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
FC-1	FAN COIL UNIT NO.1	11.3KW	208	3		1/2"	#12	#12	M1-8,10,12
HP-1	HEAT PUMP NO.1		208	3	31.4MCA	3/4"	#6	#10	M2-14,16,18
IAC-1	MINI SPLIT SYST NO.1 (INDOOR)								
OAC-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	28.0 MCA	1/2"	#10	#10	M2-2,4
IAC-2	MINI SPLIT SYST NO.2 (INDOOR)								
OAC-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	28.0 MCA	1/2'	#10	#10	M2-6,8
IHP-1	MINI SPLIT SYST NO.1 (INDOOR) (A & B)								
OHP-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	42.0 MCA	3/4"	#6	#10	SEE UNIT PLANS
IHP-2	MINI SPLIT SYST NO.2 (INDOOR) (A & B)								
OHP-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	22.1 MCA	3/4"	#10	#10	SEE UNIT PLANS
RTU-1	AIR HANDLING UNIT NO.1		208	3	43.0MCA	3/4'	#6	#10	M2-1,3,5
RTU-2	AIR HANDLING UNIT NO.2		208	3	31.0 MCA	3/4'	#6	#10	M2-7,9,11
PTAC-1	THRU-WALL AC NO.1	3.5KW	208	1	10.6 MCA	1/2"	#12	#12	REFER TO UNIT PLANS
PTAC-2	THRU-WALL AC NO.2	3.5KW	208	1	12.1 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-16
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1-15
RP-2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	M1-32
BP-1	BOOSTER PUMP NO.1	(2) 5HP	208	3	28.8 EA.	1"	#4	#10	M1-31,33,35
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1-30 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1-30 (PC)

GENERAL EQUIPMENT NOTES:

- CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.

BUILDING 'A' LOAD SUMMARY & EQUIPMENT SCHEDULE

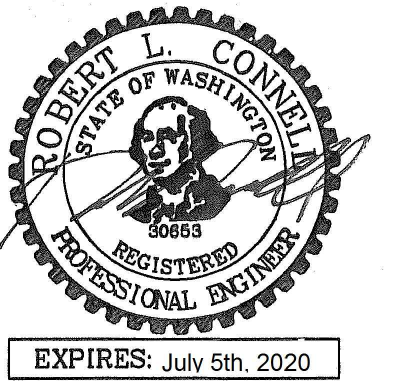
1
E1.12

SCALE: NONE

M
E
A
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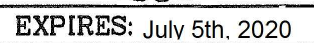
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E1.12



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E1.13

M	panel E1 voltage 120/208V service		MFA PANEL SCHEDULE										connected load amps	
			mounting SURFACE		location		BLDG "A" 2nd Flr Rm 24		calculated load amps		56			
			phase	3	100A	SCCR: 22K	MLO	60						
C		va	a	b	c	no.	a/p	no.	a/p	no.	a/p	va	service	C
	SPARE		20/1	1	*	2	20/1	1500	SMOKE DAMPERS – FLR 1					5
1	LIGHTS – BLDG EXTERIOR	500	20/1	3	*	4	20/1	1500	SMOKE DAMPERS – FLR 2&3					5
1	LIGHTS – FLR 1 EGRESS	422	20/1	5	*	6	20/1	1500	SMOKE DAMPERS – FLR 4&5					5
	SPARE		0	2/1	7	*	8	20/1	1500	ELEVATOR PIT – LTS & PLUGS				2
1	LIGHTS – STAIR 1	266	20/1	9	*	10	20/1	1500	ELEVATOR CAD LIGHTS					1
1	LIGHTS – STAIR 2	266	20/1	11	*	12	20/1	1500	ELEVATOR CONTROLLER (OPT)					5
1	LIGHTS – FLR 2 & 3 EGRESS	1296	20/1	13	*	14	20/1	1176	ELEVATOR RELIEF VENT					6
1	LIGHTS – FLR 4, 5 & 6 EGRESS	1500	20/1	15	*	16	20/1	1176	SP-1 (ELEVATOR PIT)					6
1	LIGHTS – TERRACE	500	20/1	17	*	18	20/1	1500	ELEVATOR SMOKE CURTAINS					5
5	FACP	500	20/1	19	*	20	20/1	500	EMERGENCY GAS SHUT OFF					5
5	DAS	500	20/1	21	*	22	20/1	500	EMERGENCY GAS SHUT OFF					5
5	GENERATOR ANNUNCIATOR	500	20/1	23	*	24	20/1	0	SPARE					
	BLANK			25	*	26			BLANK					
	BLANK			27	*	28			BLANK					
	BLANK			29	*	30			BLANK					
	BLANK			31	*	32			BLANK					
	BLANK			33	*	34			BLANK					
	BLANK			35	*	36			BLANK					
	BLANK			37	*	38			BLANK					
	BLANK			39	*	40			BLANK					
	BLANK			41	*	42			BLANK					
Phase A		6472 VA	NOTES:										line–line voltage	
Phase B		7442 VA												
Phase C		6188 VA											largest motor (va)	
Total Connected		20102 VA												0
load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)								
1. LIGHTS=	1296	3766	1188	VA	1.25						7813			
2. RECEPT.=	1500	0	0	VA	1500	1 + 0.5						1500		
3. HEATING=	0	0	0	VA	0	1.00						0		
4. KITCHEN=	0	0	0	VA	0	1.00						0		
5. EQUIP.=	2500	2500	5000	VA	10000	1.00						10000		
6. MOTORS=	1176	1176	0	VA	2352	*						2352		
7. MISC=	0	0	0	VA	0	1.00						0		
(* 125% of the largest motor + 100% of the balance)						TOTAL =					21665			

panel		MFA PANEL SCHEDULE										connected load amps		156	
H1		mounting		location		BLDG 'A'									
voltage		SURFACE		2nd Flr Rm		294				calculated load amps					
120/208V		phase		bus & main		MLO						150			
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C					
1	LIGHTS - SITE/PARKING	500	20/1	1	*	2	20/1	1080	RECEPT - FLR 1	2					
2	LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	900	RECEPT - FLR 1	2					
3	LIGHTS - FLR 1 (LOBBY DECOR)	80	20/1	5	*	6	20/1	1080	RECEPT - FLR 1 (E LOBBY)	2					
4	LIGHTS - FLR 1 (LOBBY & CORRID)	222	20/1	7	*	8	20/1	1500	RECEPT - FLR 1 (PKG SYSTEM)	2					
5	LIGHTS - FLR 1 (BOH)	464	20/1	9	*	10	20/1	1500	AUTO DOORS	5					
5	BUILDING SIGNS	1500	20/1	11	*	12	20/1	1440	RECEPT - FLR 1	2					
1	LIGHTS - FLR 2 & 3	566	20/1	13	*	14	20/1	360	RECEPT - FLR 1 (ELEV EQ RM)	2					
5	UNIT ENTRY SYSTEM	1500	20/1	15	*	16	20/1	720	RECEPT - FLR 1 (W. LOBBY)	2					
1	LIGHTS - PLAZA	1500	20/1	17	*	18	20/1	500	PHONE BOARD	5					
5	PHONE BOARD	500	20/1	19	*	20	20/1	500	COMMUNICATIONS BOARD	5					
2	RECEPT - FLR 2	1080	20/1	21	*	22	20/1	1500	ACCESS CONTROL SYSTEM	5					
2	RECEPT - FLR 3	1080	20/1	23	*	24	20/1	500	EH-2 (N. STAR)	3					
2	RECEPT - MAINT. RM	1500	20/1	25	*	26	20/1	500	EH-4 (RISER RM)	3					
2	SECURITY SYSTEM	1500	20/1	27	*	28	20/1	500	EH-2 (S. STAR)	3					
5	DAS SYSTEM	1500	20/1	29	*	30	20/1	500	EH-2 (E. VESTIBULE)	3					
2	LEASE D&E (TEMP LTS & PLUGS)	1500	20/1	31	*	32	20/1	500	EH-2 (W. VESTIBULE)	3					
2	LEASE B&C (TEMP LTS & PLUGS)	1500	20/1	33	*	34	20/1		SPARE						
2	LEASE A (TEMP LTS & PLUGS)	1500	20/1	35	*	36	20/1		SPARE						
7	PANEL H2	8320	150/3	37	*	38	20/1		SPARE						
7	*	8054		39	*	40	20/1		SPARE						
7	*	7150		41	*	42	20/1		SPARE						
Phase A		17408 VA		NOTES:				line-line voltage		208					
Phase B		19718 VA													
Phase C		19064 VA													
Total Connected		56190 VA						largest motor (va)		0					
load code:		ph. A	ph. B	ph. C		total		factor		calculated load (va)					
1. LIGHTS=		1288	964	2314 VA		4566		1.25		5708					
2. RECEPT.=		5940	5700	5100 VA		16740		+ 0.5		13370					
3. HEATING=		1000	500	1000 VA		2500		1.00		2500					
4. KITCHEN=		0	0	0 VA		0		1.00		0					
5. EQUIP=		860	4500	3500 VA		8860		1.00		8860					
6. MOTORS=		0	0	0 VA		0		*		0					
7. MISC=		8320	8054	7150 VA		23524		1.00		23524					
(* 125% of the largest motor + 100% of the balance)				TOTAL =		53962									

panel M1 voltage 120/208V service		MFA PANEL SCHEDULE										connected load amps	
		mounting SURFACE		location		BLDG 'A'		2nd Fl Rm 292		calculated load amps		161	
		phase 3		bus & main		(SCCR: 22k)		MLO				161	
		va	a/p	no.	a	b	c	no.	a/p	va	service	C	
6	TRASH COMPACTOR	2100	40/3	1	*	*	2	50/3	3864	BP-1	6		
6	*	2100	*	3	*	*	4	*	3864	*	6		
6	*	2100	*	5	*	*	6	*	3864	*	6		
6	TRASH COMPACTOR	2100	40/3	7	*	*	8	20/3	1356	FC-1	6		
6	*	2100	*	9	*	*	10	*	1356	*	6		
6	*	2100	*	11	*	*	12	*	1356	*	6		
3	WH-1,2 (GAS)	600	20/1	13	*	*	14	20/0	1500	EH-5 (TRASH RM)	3		
6	RP-1	1176	20/1	15	*	*	16	*	1500	*	6		
6	SPARE	0	20/1	17	*	*	18	20/2	1500	EH-5 (BIKE RM)	3		
3	EH-3 (TEMP)	1500	20/2	19	*	*	20	20/0	1500	*	3		
3	*	1500	*	21	*	*	22	20/1	1500	EF-3 (TRASH RM)	6		
3	EH-3 (TEMP)	1500	20/2	23	*	*	24	20/1	1500	DRAINING EQUIPMENT	6		
3	*	1500	*	25	*	*	26	20/1	500	IRRIGATION CONTROLS	5		
3	EH-3 (TEMP)	1500	20/2	27	*	*	28	20/1	0	SPARE	3		
3	*	1500	*	29	*	*	30	20/1	600	WH-3,4 (GAS)	3		
3	EH-3 (TEMP)	1500	20/2	31	*	*	32	20/1	1176	RP-2	6		
3	*	1500	*	33	*	*	34	40/3		EV CHARGING STATION (FUTURE)	5		
3	EH-3 (TEMP)	1500	20/2	35	*	*	36	*		*	5		
3	*	1500	*	37	*	*	38	*		*	5		
3	EH-3 (TEMP)	1500	20/2	39	*	*	40	20/1	0	SPARE	3		
3	*	1500	*	41	*	*	42	20/1	0	SPARE	3		
Phase A		20696 VA		NOTES:									
Phase B		18314 VA								208			
Phase C		19020 VA											
Total Connected		58030 VA								largest motor (va)			
										0			
load code:		ph. A	ph. B	ph. C	total	factor		calculated load (va)					
1. LIGHTS=		0	0	0	0	VA	0	1.25	0				
2. RECEPT=		0	0	0	0	VA	0	0.1 + 0.5	0				
3. HEATING=		9600	7500	8100	VA	25200	1.00		25200				
4. KITCHEN=		0	0	0	VA	0	1.00		0				
5. EQUIP.=		500	0	1500	VA	2000	1.00		2000				
6. MOTORS=		10596	10814	9420	VA	30830	*		30830				
7. MISC=		0	0	0	VA	0	1.00		0				
(* 125% of the largest motor + 100% of the balance)		TOTAL =						58030					

MFA PANEL SCHEDULE													
panel H2		mounting SURFACE			location: BLDG "A" 5th Flr Rm 594			connected load amps			65		
voltage 120/208V		phase			bus & main			calculated load amps			59		
service		3			150A SCOR: 22K			MLO			59		
C		va	g/p	no.	a	b	c	g/p	va	service	C		
1	LIGHTS – FLR 4, 5, & 6	6500	20/1	1	*			2	20/1	1080 RECEPT – 4TH FLR	2		
1	LIGHTS – COMMUNITY RM	1000	20/1	3	*	*		4	20/1	1080 RECEPT – 5TH FLR	2		
	SPARE		20/1	5	*	*	*	6	20/1	1300 RECEPT – COMMUNITY RM	2		
1	LIGHTS – TERRACE	500	20/1	7	*			8	20/1	450 RECEPT – COMMUNITY RM	2		
2	RECEPT – TERRACE	1080	20/1	9	*			10	20/1	500 RECEPT – COMMUNITY RM	2		
2	RECEPT – TERRACE	1260	20/1	11	*			12	20/1	1200 RECEPT – COMMUNITY RM	2		
2	RECEPT – TERRACE	1260	20/1	13	*			14	20/1	1500 RECEPT – COMMUNITY RM	2		
5	A/V SYSTEM	1500	20/1	15	*			16	20/1	1650 RECEPT – COMMUNITY RM	2		
2	RECEPT – ROOF	1080	20/1	17	*			18	20/1	360 RECEPT – COMMUNITY RM	2		
5	IRRIGATION	500	20/1	19	*			20	20/1	1080 RECEPT – COMMUNITY RM	2		
5	LANDSCAPE LIGHTING	524	20/1	21	*			22	20/1	720 RECEPT – COMMUNITY RM	2		
5	LANDSCAPE LIGHTING	1950	20/1	23	*			24	0	0 SPARE			
5	LANDSCAPE LIGHTING	1300	20/1	25	*			26	20/1	0 SPARE			
	SPARE	0	20/1	27	*			28	20/1	0 SPARE			
	BLANK			29	*			30	20/1	BLANK			
	BLANK			31	*			32	20/1	BLANK			
	BLANK			33	*			34	20/1	BLANK			
	BLANK			35	*			36	20/1	BLANK			
	BLANK			37	*			38	20/1	BLANK			
	BLANK			39	*			40	20/1	BLANK			
	BLANK			41	*			42	20/1	BLANK			
Phase A		8320 VA	NOTES:						line-line voltage				
Phase B		8054 VA										208	
Phase C		7150 VA							largest motor (va)				
Total Connected		23524 VA										0	
load code:		ph. A	ph. B	ph. C		total		factor		calculated load (va)			
1. LIGHTS=		1150	1000	0 VA		2150		1.25		2688			
2. RECEPT=		5370	5030	5200 VA		15600		1 + 0.5		12800			
3. HEATING=		0	0	0 VA		0		1.00		0			
4. KITCHEN=		0	0	0 VA		0		1.00		0			
5. EQUIP.=		1800	2024	1950 VA		5774		1.00		5774			
6. MOTORS=		0	0	0 VA		0		*		0			
7. MISC=		0	0	0 VA		0		1.00		0			
(* 125% of the largest motor + 100% of the balance)										TOTAL =		21262	

panel M2 voltage 120/208V		MFA PANEL SCHEDULE										connected load amps	
		mounting SURFACE		location 5th Flr		BLDG "A" Rm 592		bus & main SCCR: 42K		MLO		calculated load amps	
												155	
		phase	3	250A	a b c	a b c	a/p	va	service		155		
C	RTU-1	5160	50/3	1	*	2	30/3	2912	IAC/OAC-1		C		
6	*	5160	*	3	*	4	*	2912	*		6		
6	*	5160	*	5	*	6	30/3	2912	IAC/OAC-2		6		
6	RTU-2	3720	50/3	7	*	8	*	2912	*		6		
6	*	3720	*	9	*	10	20/1	0	SPARE		6		
6	*	3720	*	11	*	12	20/1	0	SPARE		6		
6	EF-4	57	20/1	13	*	14	50/3	3816	HP-1		6		
6	EF-5	1176	20/1	15	*	16	*	3816	*		6		
6	EF-6	1176	20/1	17	*	18	*	3816	*		6		
6	EF-7	696	20/1	19	*	20	20/1	0	SPARE		6		
6	EF-8	718	20/2	21	*	22	20/1	0	SPARE		6		
6	*	718	*	23	*	24	20/1	0	SPARE		6		
6	EF-9	1176	20/1	25	*	26	20/1	0	SPARE		6		
6	SPARE	0	20/1	27	*	28	20/1	500	GAS APPLIANCES AT TERRACE		5		
6	SPARE	0	20/1	29	*	30	20/1	0	SPARE		6		
6	BLANK			31	*	32			BLANK		6		
6	BLANK			33	*	34			BLANK		6		
6	BLANK			35	*	36			BLANK		6		
6	BLANK			37	*	38			BLANK		6		
6	BLANK			39	*	40			BLANK		6		
6	BLANK			41	*	42			BLANK		6		
Phase A		20449 VA		NOTES:				line-line voltage		208			
Phase B		18002 VA											
Phase C		17502 VA						largest motor (va)		0			
Total Connected		55953 VA											
load code:		ph. A	ph. B	ph. C	total	factor	calculated load (va)						
1. LIGHTS=		0	0	0	VA	0	1.25	0					
2. RECEPT=		0	0	0	VA	0	1 + 0.5	0					
3. HEATING=		0	0	0	VA	0	1.00	0					
4. KITCHEN=		0	0	0	VA	0	1.00	0					
5. EQUIP.=		0	500	0	VA	500	1.00	500					
6. MOTORS=		20449	17502	17502	VA	55453	*	55453					
7. MISC=		0	0	0	VA	0	1.00	0					
(* 125% of the largest motor + 100% of the balance)						TOTAL =		55953					

BUILDING 'A' PANEL SCHEDULES



IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

- PLAN REVIEW 01.24.2020
PLAN REVIEW 03.13.2020
PLAN REVIEW 04.24.2020
PLAN REVIEW 08.10.2020

AEGIS
MIXED-USE DEVELOPMENT
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SHEET:

E1.15

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Aegis I - Bldg B Main distribution Center "MDP-B"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
PANEL H1	6,606	19,380	1,500	0	9,500	0	
PANEL M1/M2	1,047	3,240	13,200			88,175	
PANEL E1	7,250	1,500			11,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Elevator 2 (40hp)						43,200	
Fire Pump						43,200	
Residential Meters (MC-B1)				349,000			
Residential Meters (MC-B2)				374,000			
Retail Space "F" 981sf @ 30w/sf				29,500			
SUBTOTAL	14,903	24,120	14,700	752,500	20,500	220,127	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	18,629	17,060	14,700	752,500	20,500	220,127	10,800

CONN LOAD: 1090 KVA

VOLTS: 208 3ph
TOTAL CALC: 1054 KVA
CALC AMPS: 2927 AMPS

NOTE: BASED ON TOTAL CONNECTED LOAD, AND ESTIMATED LOAD FOR THE LEAST SPACE, THIS SERVICE PANEL IS AT FULL CAPACITY. NOT ADDITIONAL LOADS SHALL BE CONNECTED WITHOUT COMPLETE REVIEW OF THE CONNECTED LOAD AS INSTALLED BY THE CONTRACTOR.

Aegis I - Bldg B Emergency Distribution Panel "EDP-B"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel E1	7,280	1,500	500	0	11,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Elevator 2 (40hp)						43,200	
SUBTOTAL	7,280	1,500	500	0	11,000	88,752	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	9,100	1,500	500	0	11,000	88,752	10,800

CONN LOAD: 152 KVA

VOLTS: 208 3ph
TOTAL CALC: 122 KVA
CALC AMPS: 336 AMPS

Aegis I - Bldg A & B Generator Load Summary							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel EDP-Bldg A				105,000			
Panel EDP-Bldg B				152,000			
Fire Pump Bldg A (40HP)						43,200	43,200
Fire Pump Bldg B (40HP)						43,200	
SUBTOTAL	0	0	0	257,000	0	86,400	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	257,000	0	86,400	10,800

CONN LOAD: 387 KVA

VOLTS: 208 3ph
TOTAL CALC: 354 KVA
CALC AMPS: 983 AMPS

BUILDING 'B' MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	9.9HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-2	EXHAUST FAN NO.2	10.8HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-3	EXHAUST FAN NO.3	8.2HP	120	1		1/2"	#12	#12	SEE E3.01
EF-4	EXHAUST FAN NO. 4	135W	120	1		1/2"	#12	#12	M1-21
EF-5	EXHAUST FAN NO.5	1/10HP	120	1		1/2"	#12	#12	M1-32,34,36
EF-6	EXHAUST FAN NO.6	1/4HP	120	1		1/2"	#12	#12	M2-5
EF-7	EXHAUST FAN NO.7	57W	120	1		1/2"	#12	#12	M2-32
EF-8	EXHAUST FAN NO.8	1/2HP	120	1		1/2"	#12	#12	M2-25
EF-9	EXHAUST FAN NO.9	3/4HP	120	1		1/2"	#12	#12	M2-27,29
EF-10	EXHAUST FAN NO.10	1/2HP	120	1		1/2"	#12	#12	M2-31
EF-11	EXHAUST FAN NO.11	1/2HP	120	1		1/2"	#12	#12	M2-33
EF-12	EXHAUST FAN NO.12	3/4HP	120	1		1/2"	#12	#12	M2-26,28
EF-13	EXHAUST FAN NO.13	1/2HP	120	1		1/2"	#12	#12	M2-30
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	SEE E3.01
EH-3	ELECTRIC WALL HEATER NO.3	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH-4	ELECTRIC WALL HEATER NO.4	3.0 KW	208	1		1/2"	#12	#12	H1-29
EH-5	ELECTRIC WALL HEATER NO.5	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH-6	ELECTRIC WALL HEATER NO.1	2.0 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
EC-1	FAN COIL UNIT NO.1	11.3KW	208	3		1/2"	#12	#12	M1-8,10,12
HP-1	HEAT PUMP NO.1		208	3	31.4MCA	3/4"	#6	#10	M2-14,16,18
IAC-1	MINI SPLIT SYST NO.1 (INDOOR)								
OAC-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	28.0 MCA	1/2"	#10	#10	M2-7,9
IAC-2	MINI SPLIT SYST NO.2 (INDOOR)								
OAC-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	28.0 MCA	1/2'	#10	#10	M2-8,10
IHP-1	MINI SPLIT SYST NO.1 (INDOOR) (A & B)								
OHP-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	25.0 MCA	3/4"	#8	#10	SEE UNIT PLANS
IHP-2	MINI SPLIT SYST NO.2 (INDOOR) (A & B)								
OHP-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-3	MINI SPLIT SYST NO.3 (INDOOR) (A & B)								
OHP-3	MINI SPLIT SYST NO.3 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-4	MINI SPLIT SYST NO.4 (INDOOR)								
OHP-4	MINI SPLIT SYST NO.4 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-5	MINI SPLIT SYST NO.5 (INDOOR)								
OHP-5	MINI SPLIT SYST NO.5 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
RTU-1	AIR HANDLING UNIT NO.1		208	3	43.0MCA	3/4'	#6	#10	M2-1,3,5
RTU-2	AIR HANDLING UNIT NO.2		208	3	31.0 MCA	3/4'	#6	#10	M2-7,9,11
PTAC-1	THRU-WALL AC NO.1	3.5KW	208	1	10.6 MCA	1/2"	#12	#12	REFER TO UNIT PLANS
PTAC-2	THRU-WALL AC NO.2	3.5KW	208	1	12.1 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-16
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1-15
RP-2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	M1-16
BP-1	BOOSTER PUMP NO.1	(2) 5HP	208	3		3/4"	#6	#10	M1-2,4,6
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1-14 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1-14 (PC)

GENERAL EQUIPMENT NOTES:

- A. CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- B. MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.

Aegis I - Bldg B																			
RESIDENTIAL LOAD SUMMARY 'MC-B1'																			
UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT	SM APPL	LAUNDRY	COOKING	MICROWAVE	DISHWASHER	ELECT DRYER	WATER HEATER	DISPOSAL	MOTORS	LARGEST OF: AC/HEATING
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6			(3VA / SF)	(1500VA X 2)	(1500VA)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)
Studio	0	2	2	2	2	2	10	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	5500
1bed/1bath	0	4	4	4	4	4	20	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	8000
2bed/2bath	0	3	3	3	3	3	15	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	6000
TOTALS:	0	9	9	9	9	9	45	35175	105525	135000	67500	360000	67500	54000	157500	0	40500	0	305000

VOLTS: 208 3ph
TOTAL CONNECTED: 1293 KVA
DEMAND FACTOR: 0.27
TOTAL CALCULATED: 349 KVA
CALCULATED AMPS: 969 AMPS

NOTE:

Based on Total Number of Residential Units = 43-45 (See N.E.C. Article: 220.84)

Aegis I – Bldg B																			
RESIDENTIAL LOAD SUMMARY 'MC-B2'																			
UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT	SM APPL	LAUNDRY	COOKING	MICROWAVE	DISHWASHER	ELECT DRYER	WATER HEATER	DISPOSAL	MOTORS	LARGEST OF: AC/HEATING
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6			(3VA / SF)	(1500VA X 2)	(1500VA)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)
Studio	3	2	2	2	2	2	13	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	5500
1bed/1bath	2	5	5	5	5	5	27	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	8000
2bed/2bath	2	2	2	2	2	2	12	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	6000
TOTALS:	7	9	9	9	9	9	52	39090	117270	156000	78000	416000	78000	62400	182000	0	46800	0	3595000

VOLTS: 208 3ph
TOTAL CONNECTED: 1496 KVA
DEMAND FACTOR: 0.25
TOTAL CALCULATED: 374 KVA
CALCULATED AMPS: 1038 AMPS

NOTE:

Based on Total Number of Residential Units = 51-55 (See N.E.C. Article: 220.84)

BUILDING 'B'
LOAD SUMMARY & EQUIPMENT SCHEDULE
SCALE: NONE

1
E1.15



EXPIRES: July 6th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

- △ PLAN REVIEW 01.24.2020
△ PLAN REVIEW 03.13.2020
△ PLAN REVIEW 04.24.2020
△ PLAN REVIEW 08.10.2020

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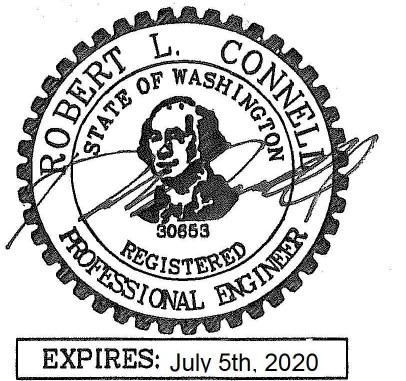
SHEET:

E1.16

MFIA PANEL SCHEDULE											
panel		mounting SURFACE			location BLDG 'B'			connected load amps			
E1		3			2nd Flr Rm 292						63
voltage		phase			bus & main			calculated load amps			
120/208V		3			100A SCCR: 22K			MLO			
service		va	a/p	no.	a	b	c	no.	a/p	va	service
C			0	20/1	1	*	2	20/1	1500		SMOKE DAMPERS - FLR 1 & 2
1	LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	1500			SMOKE DAMPERS - FLR 3 & 4
1	LIGHTS - STAIR 1	500	20/1	5	*	6	20/1	1500			SMOKE DAMPERS - FLR 5 & 6
1	LIGHTS - STAIR 2	500	20/1	7	*	8	20/1	1500			ELEVATOR PIT LITS & PLUGS
1	LIGHTS - FLR 1	1200	20/1	9	*	10	20/1	1500			ELEVATOR CAD LIGHTS
1	LIGHTS - FLR 2 & 3	1232	20/1	11	*	12	20/1	1500			ELEVATOR CONTROLLER (OPT)
1	LIGHTS - FLR 4 & 5	1232	20/1	13	*	14	20/1	1176			ELEVATOR RELIEF VENT
1	LIGHTS - FLR 6	616	20/1	15	*	16	20/1	1176			SP-1 (ELEVATOR PIT)
5	SMOKE CURTAIN	1500	20/1	17	*	18	20/1	500			GENERATOR BLOCK HEATER
5	SMOKE CURTAIN	1500	20/1	19	*	20	20/1	500			GENERATOR BATTERY CHARGER
	SPARE	0	20/1	21	*	22	20/1	0			SPARE
	5 FACP	500	20/1	23	*	24	20/1	0			SPARE
	5 DAS	500	20/1	25	*	26	20/1	0			SPARE
5	GENERATOR ANNUNCIATOR	500	20/1	27	*	28	20/1	0			SPARE
	BLANK			29	*	30					BLANK
	BLANK			31	*	32					BLANK
	BLANK			33	*	34					BLANK
	BLANK			35	*	36					BLANK
	BLANK			37	*	38					BLANK
	BLANK			39	*	40					BLANK
	BLANK			41	*	42					BLANK
Phase A		8408	VA	NOTES:				line-line voltage			
Phase B		6992	VA					208			
Phase C		7232	VA					largest motor (va)			
Total Connected		22632	VA					0			
load code:		ph. A	ph. B	ph. C	total	factor	calculated load (va)				
1.	LIGHTS=	1732	3816	1732	VA	1.25	9100				
2.	RECEPT.=	1500	0	0	VA	1500 1 + 0.5	1500				
3.	HEATING=	0	0	500	VA	500 1.00	500				
4.	KITCHEN=	0	0	0	VA	0 1.00	0				
5.	EQUIP.=	4000	2000	5000	VA	11000 1.00	11000				
6.	MOTORS=	1176	1176	0	VA	2352 *	2352				
7.	MISC=	0	0	0	VA	0 1.00	0				
(* 125% of the largest motor + 100% of the balance)						TOTAL =	24452				

MFIA PANEL SCHEDULE												
panel		mounting		location		BLDG 'B'		connected load amps				
H1		SURFACE		FLR 1 RM 198						129		
voltage		phase		bus & main		calculated load amps						
120/208V		3		250A (SCCR: 22K)		MLO				115		
C	service	va	a/p	no.	a	b	c	a/p	va	service	C	
1	LIGHTS - SITE/PARKING	1440	20/1	1	*		2	20/1	900	RECEPT - FLR 1	2	
1	LIGHTS - BLDG EXTERIOR	500	20/1	3	*		4	20/1	900	RECEPT - FLR 1 (E. LOBBY)	2	
1	LIGHTS - FLR 1 (LOBBY)	1032	20/1	5	*		6	20/1	1500	RECEPT - FLR 1 (OFFICE)	2	
1	LIGHTS - FLR 1 (CORRIDOR)	267	20/1	7	*		8	20/1	1500	RECEPT - FLR 1 (PKG SYSTEM)	2	
1	LIGHTS - FLR 1 (BOH)	1169	20/1	9	*		10	20/1	1080	RECEPT - FLR 1	2	
1	LIGHTS - UNIT ENTRIES	500	20/1	11	*		12	20/1	1080	RECEPT - FLR 1	2	
1	LIGHTS - FLR 2 & 3	698	20/1	13	*		14	20/1	1260	RECEPT - FLR 1 (W. LOBBY)	2	
5	BUILDING SIGNS	1500	20/1	15	*		16	20/1	1500	RECEPT - FLR 1 (FITNESS)	2	
5	DRINKING FOUNTAIN	1500	20/1	17	*		18	20/1	1500	RECEPT - FLR 1 (FITNESS)	2	
5	UNIT ENTRY SYSTEM	1500	20/1	19	*		20	20/1	1500	RECEPT - FLR 1 (FITNESS)	2	
2	RECEPT - FLR 2	1080	20/1	21	*		22	20/1	0	SPARE	5	
2	RECEPT - FLR 3	1080	20/1	23	*		24	20/1	1500	AUTO DOORS	5	
3	EH-2 (N. STAIR)	500	20/1	25	*		26	20/1	500	PHONE BOARD	5	
3	EH-2 (S. STAIR)	500	20/1	27	*		28	20/1	500	COMMUNICATIONS BOARD	5	
3	EH-4 (RISER)	500	20/1	29	*		30	20/1	500	ACCESS CONTROLS	5	
5	A/V SYSTEM	1500	20/1	31	*		32	20/1	1500	RECEPT - MAINT. RM	2	
5	FIREPLACE	500	20/1	33	*		34	20/1	1500	RECEPT - SECURITY	2	
1	LTS & PLUGS (TEMP)	1500	20/1	35	*		36	20/1	1500	WALL FANS - FITNESS RM	5	
5	DAS SYSTEM	1500	20/1	37	*		38	20/1	1500	WALL FANS - FITNESS RM	5	
2	RECEPT - FITNESS	1500	20/1	39	*		40	20/1	1500	RECEPT - FITNESS	2	
2	RECEPT - FITNESS	1500	20/1	41	*		42	20/1	1500	RECEPT - FITNESS	2	
Phase A		16065		VA		NOTES:		line-line voltage				
Phase B		13729		VA						208		
Phase C		16692		VA						largest motor (va)		
Total Connected		46486		VA						0		
load code:		ph. A	ph. B		ph. C		total		factor		calculated load (va)	
1. LIGHTS=		2405	1669		3032		VA		7106 1.25		8883	
2. RECEPT.=		6660	9060		8160		VA		23880 1 + 0.5		16940	
3. HEATING=		500	500		500		VA		1500 1.00		1500	
4. KITCHEN=		0	0		0		VA		0 1.00		0	
5. EQUIP.=		6500	2500		5000		VA		14000 1.00		14000	
6. MOTORS=		0	0		0		VA		0 *		0	
7. MISC=		0	0		0		VA		0 1.00		0	
(* 125% of the largest motor + 100% of the balance)								TOTAL =		41323		

MFIA PANEL SCHEDULE											
panel		mounting SURFACE		location BLDG 'B'		connected load amps					
M1		3		ELECT. RM 198		124					
voltage		phase		bus & main		calculated load amps					
120/208V		3		250A (SCCR: 22K)		MLO					
service		va	a/p	no.	a b c	no.	a/p	va	service		
C											
6	TRASH COMPACTOR	2100	40/3	1	*	2	50/3	3864	BP-1		6
6	*	2100	*	3	*	4	*	3864	*		6
6	*	2100	*	5	*	6	*	3864	*		6
6	TRASH COMPACTOR	2100	40/3	7	*	8	20/3	1356	FC-1		6
6	*	2100	*	9	*	10	*	1356	*		6
6	*	2100	*	11	*	12	*	1356	*		6
3	WH-1,2 (GAS)	600	20/1	13	*	14	20/1	600	WH-3,4 (GAS)		3
6	RP-1	1176	20/1	15	*	16	20/1	1476	RP-2		6
5	EV CHARGING (FUTURE)		40/2	17	*	18	20/1	500	IRRIGATION CONTROLS		5
5	*		*	19	*	20	20/1	500	SPARE		5
5	*		*	21	*	22	20/1	500	SPARE		5
5	EV CHARGING (FUTURE)		40/2	23	*	24	20/1	500	SPARE		5
5	*		*	25	*	26	20/3	1500	EH-5 (BIKE RM)		3
5	*		*	27	*	28	*	1500	*		3
5	EV CHARGING (FUTURE)		40/2	29	*	30	*	1500	*		3
5	*		*	31	*	32	20/3	1500	EH-5 (TRASH RM)		3
5	*		*	33	*	34	*	1500	*		3
	SPARE	0	20/1	35	*	36	*	1500	*		3
	SPARE	0	20/1	37	*	38	20/1	135	EF-4		6
3	EH-3 (TEMP)	1500	20/2	39	*	40	20/1	0	SPARE		3
3	*	1500	*	41	*	42	20/1	0	SPARE		3
NOTES:											
Phase A		13755 VA						line-line voltage			
Phase B		16272 VA								208	
Phase C		14420 VA									
Total Connected		44447 VA						largest motor (va)		0	
load code:		ph. A	ph. B			ph. C	total	factor	calculated load (va)		
1. LIGHTS=		0	0			0	VA	0	1.25	0	
2. RECEIPT.=		0	0			0	VA	0	1 + 0.5	0	
3. HEATING=		4200	4500			4500	VA	13200	1.00	13200	
4. KITCHEN=		0	0			0	VA	0	1.00	0	
5. EQUIP.=		0	0			500	VA	500	1.00	500	
6. MOTORS=		9555	11772			9420	VA	30747	*	30747	
7. MISC.=		0	0			0	VA	0	1.00	0	
(* 125% of the largest motor + 100% of the balance)								Total =		44447	



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PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

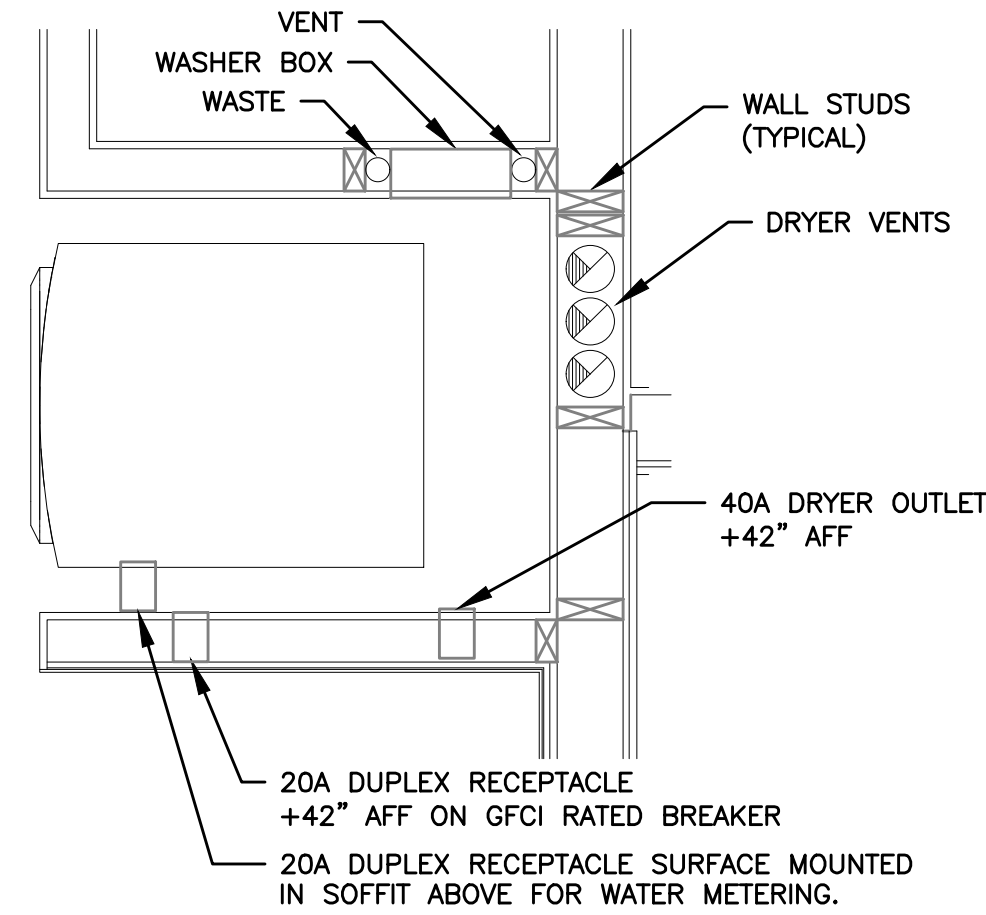
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SHEET:

E1.17

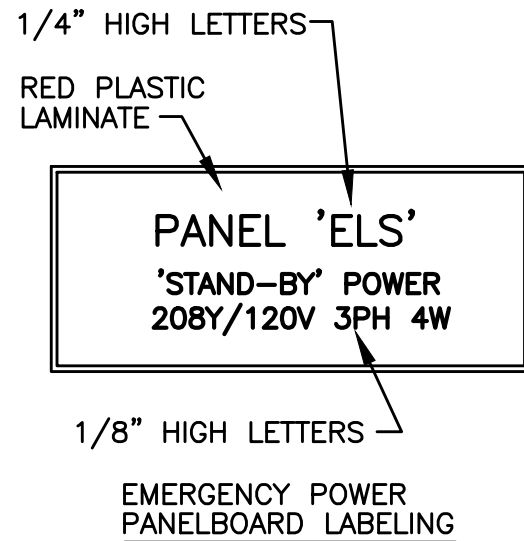
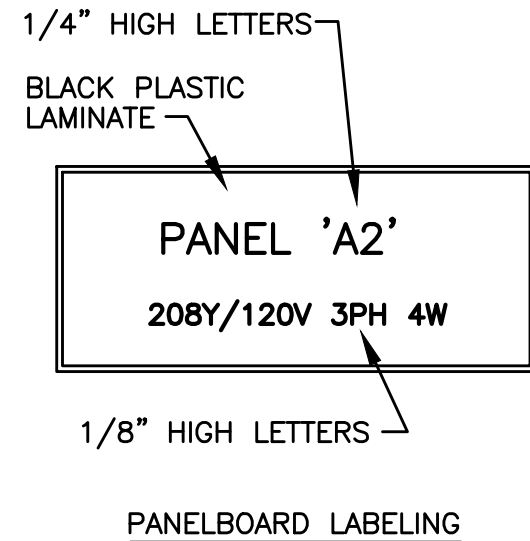
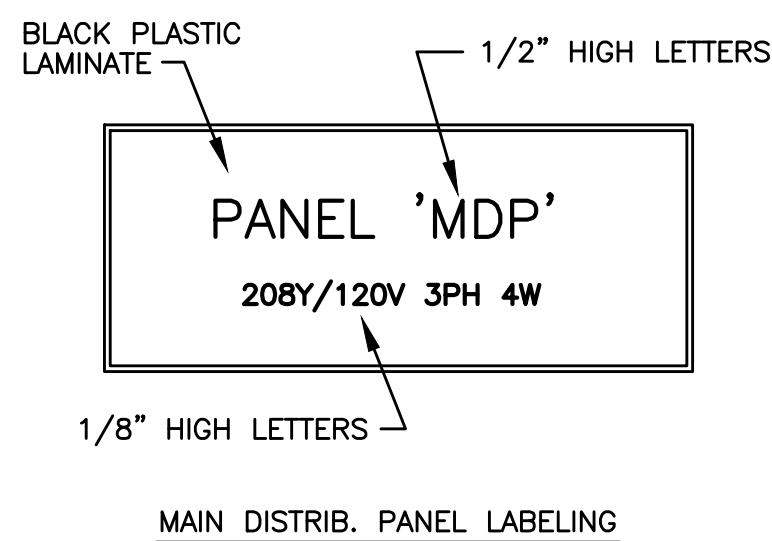
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NOTES:

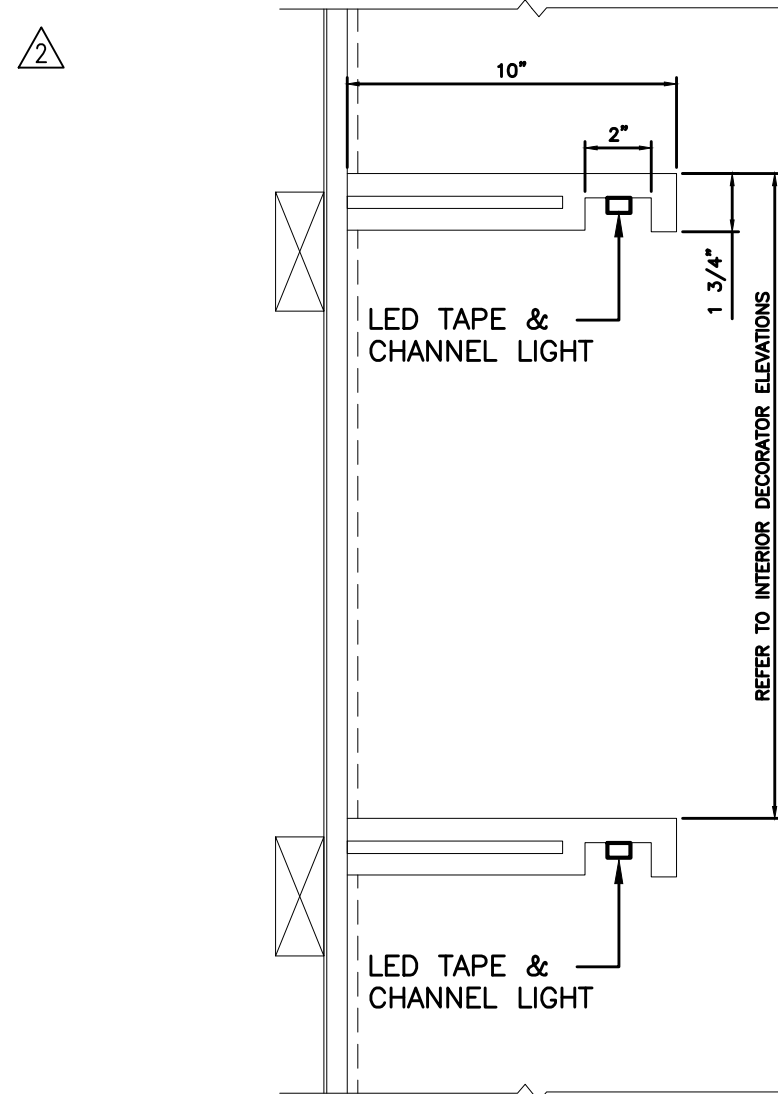
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN, TO ENSURE THAT ELECTRICAL DEVICES ARE NOT INSTALLED WHERE THEY WILL CREATE CONFLICT.
- PREFERRED INSTALLATION SHALL HAVE THE ELECTRICAL DEVICES ON A WALL OPPOSITE THE WORK OF ANY OTHER TRADE.
- COORDINATE WITH WATER METER INSTALLER FOR EXACT LOCATION OF DUPLEX RECEPTACLE, WHERE REQUIRED.
- FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.

2
E1.17
TYPICAL WASHER/DRYER ALCOVE
NO SCALE



3
E1.17
SWITCHBOARD/PANEL LABELING DETAIL
NO SCALE

NOTE: ALL LETTERS ARE ENGRAVED WHITE



NOTES:

- FIXTURE TYPE LF1 (LED TAPE & CHANNEL) TO BE INSTALLED IN THE RECESSED CAVITY LOCATED ON THE UNDERSIDE OF EACH SHELF.
- UNDER SHELF LIGHT FIXTURES TO BE CUT TO MATCH THE SHELF CAVITY LENGTH.
- CONTRACTOR SHALL COORDINATE WITH THE INTERIOR DESIGN DOCUMENTS AND INSTALLER PRIOR TO ORDERING ANY MATERIALS AND PRIOR TO INSTALLATION TO VERIFY EXACT REQUIREMENTS FOR COMPLETE INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH SHELIVING INSTALLER TO ROUTE WIRING IN A CONCEALED MANNER BEST SUITED TO THE PROJECT.
- LOW VOLTAGE LIGHTING RELAYS & POWER SUPPLIES SHALL BE CONCEALED WITHIN THE CABINET LOCATED BELOW THE SHELIVING.
- PROVIDE SWITCHING CONTROLS AS INDICATED ON THE LIGHTING PLANS.

4
E1.17
UNDER SHELF LIGHTING DETAIL
NO SCALE

MFIA CIRCUIT DIRECTORY										17-Jul-20
Loadcenter Name		mounting		location						
LC-STUDIO (TYPICAL)		RECESSED								
voltage		phase		bus & main						
208/120		1		100A MLO		(SCCR: 22K)				
service		a/p		no.		L1		L2		service
LIGHTS-KITCHEN/LIVING		20/1(A)		1		*		2		20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT - BATH		20/1		3		*		4		20/1(A) APPLIANCE CIRCUIT
RECEPT - LIVING		20/1(A)		5		*		6		20/1 REFRIGERATOR
RECEPT - LIVING		20/1(A)		7		*		8		20/1 MICRO/HOOD
SPARE		20/1		9		*		10		20/1 RANGE (GAS)
SPARE		20/1		11		*		12		20/1 SPARE
WASHER		20/1(G)		13		*		14		20/1 DISHWASHER (WHERE USED)
DRYER		40/2		15		*		16		20/1 DISPOSAL
DRYER BOOSTER (OPT)		20/1		17		*		18		20/2 HEAT
WATER METER		20/1		19		*		20		*
SMART PANEL		20/1		21		*		22		20/2 HEAT
HEAT		20/2		23		*		24		*
BLANK		25		*		26		20/1		SPARE
BLANK		27		*		28		BLANK		
BLANK		29		*		30		BLANK		

- NOTES:
- (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12
 - LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
 - BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
 - (G) DENOTES GFCI RATED BREAKER.

MFIA CIRCUIT DIRECTORY										17-Jul-20
Loadcenter Name		mounting		location						
LC-1BR (TYPICAL)		RECESSED								
voltage		phase		bus & main						
208/120		1		100A MLO		(SCCR: 22K)				
service		a/p		no.		L1		L2		service
LIGHTS-KITCHEN/LIVING		20/1(A)		1		*		2		20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT - BATH		20/1		3		*		4		20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT - BEDROOM		20/1(A)		5		*		6		20/1 REFRIGERATOR
RECEPT - LIVING		20/1(A)		7		*		8		20/1 MICRO/HOOD
SPARE		20/1(A)		9		*		10		20/1 RANGE (GAS)
SPARE		20/1		11		*		12		20/1 SPARE
WASHER		20/1(G)		13		*		14		20/1 DISHWASHER (WHERE USED)
DRYER		40/2		15		*		16		20/1 DISPOSAL
DRYER BOOSTER (OPT)		20/1		17		*		18		20/2 HEAT
WATER METER		20/1		19		*		20		*
SMART PANEL		20/1		21		*		22		20/2 HEAT
HEAT		20/2		23		*		24		*
BLANK		25		*		26		20/2		HEAT
BLANK		27		*		28		20/2		HEAT
BLANK		29		*		30		BLANK		

- NOTES:
- (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12
 - LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
 - BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
 - (G) DENOTES GFCI RATED BREAKER.

MFIA CIRCUIT DIRECTORY										17-Jul-20
Loadcenter Name		mounting		location						
LC-2BR (TYPICAL)		RECESSED								
voltage		phase		bus & main						
208/120		1		100A MLO		(SCCR: 22K)				
service		a/p		no.		L1		L2		service
LIGHTS-KITCHEN/LIVING		20/1(A)		1		*		2		20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT - BATH		20/1		3		*		4		20/1(A) APPLIANCE CIRCUIT
RECEPT - LIVING		20/1(A)		5		*		6		20/1 REFRIGERATOR
RECEPT - LIVING		20/1(A)		7		*		8		20/1 MICRO/HOOD
LTS & RECEPT - BEDROOM		20/1(A)		9		*		10		20/1 RANGE (GAS)
LTS & RECEPT - BEDROOM		20/1(A)		11		*		12		20/1 DISHWASHER
WASHER		20/1(G)		13		*		14		20/1 DISPOSAL
DRYER		40/2		15		*		16		50/2 HEAT
DRYER BOOSTER (OPT)		20/1		17		*		18		*
WATER METER (OPT)		20/1		19		*		20		20/2 HEAT
SMART PANEL		20/1		21		*		22		*
HEAT		20/2		23		*		24		20/2 HEAT
BLANK		25		*		26		20/2		HEAT
BLANK		27		*		28		20/2		HEAT
BLANK		29		*		30		BLANK		

- NOTES:
- (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12
 - LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
 - BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
 - (G) DENOTES GFCI RATED BREAKER.

TYPICAL RESIDENTIAL UNIT
LOAD SUMMARY &
LOAD CENTER SCHEDULES

1
E1.17
SCALE: NONE

DWELLING UNIT LOAD CALCULATION		
Project:	Aegis I	
Unit Type:	Studio	
Area:	540 square feet(average)	
Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	1,620	VA
Small Appliance load (2 ckt at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range (GAS)	8,000	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	3,500	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	21,220	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	4,488	VA
Net "general load"	14,488	VA
Largest of:	5,500	VA of electric space heating (less than 4) at 65%
-or-	0	VA of electric space heating (4 or more) at 40%
-or-	0	VA of air conditioning/cooling/heat pumps at 100%
TOTAL LOAD	18,063	VA
For 120/208-volt, 4-wire, three-phase service or feeder,	18,063	VA / 208 volts = 87 Amps
Therefore, this dwelling unit shall be permitted to be served by a	100	amp service.

DWELLING UNIT LOAD CALCULATION			
Project:	Aegis I		
Unit Type:	1Bedroom		
Area:	750 square feet(average)		
Minimum Size Feeder (NEC 220.40):			
General lighting load at 3 VA / SF	2,250	VA	
Small Appliance load (2 ckt at 1500VA each)	3,000	VA	
Laundry Load (1 ckt at 1500VA)	1,500	VA	
Range (GAS)	8,000	VA	
Other Cooking Appliance Load (Microwave Oven)	1,500	VA	
Dishwasher Load	1,200	VA	
Electric Dryer Load	3,500	VA	
Electric Water Heater Load	0	VA	
Disposal load	900	VA	
Other motor loads	0	VA	
Total "General Loads"		21,850	VA
First 10 kVA of "general loads" at 100%		10,000	VA
Remainder of "general loads" at 40%		4,740	VA
Net "general load"		14,740	VA
Largest of:		0	VA
--or--	8,000	3,200	VA
--or--		0	VA
TOTAL LOAD		17,940	VA
For 120/208-volt, 4-wire, three-phase service or feeder,		86	Amps
17,940 VA / 208 volts =			
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.			

LIGHTING FIXTURE LIST					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A1 A1E	LED 3000K 2000LM/80CRI 25W	LITHONIA (OR APPROVED OTHER)	ZLIN SERIES	TYPE :4" GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :DIFFUSED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE 'AE' SIMILAR TO TYPE 'A' EXCEPT WITH EMERGENCY BATTERY BACK-UP EQUIP. RMS, TRASH RM, LEASE SPACE
A2	LED 3500K 3000LM/80CRI 23W	LITHONIA (OR APPROVED OTHER)	FEML48 SERIES	TYPE :4" ENCLOSED INDUSTRIAL MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :CLEAR POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	WALL MOUNT AT +7'-0" AFF IN ROOF TERRACE MECH. ROOM. ELEVATOR PIT & TOP OF SHAFT
B1 ②	LED 3000K 2152LM/80CRI 18.7W	LITHONIA (OR APPROVED OTHER)	WL4 20LP835 SERIES	TYPE :4" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR, DIM50 STANDBY MODE STAIRWELLS
B2	LED 3000K 3000LM/80CRI 20W	LITHONIA (OR APPROVED OTHER)	CLXL48 SERIES	TYPE :4" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	WIDE DISTRIBUTION STANDARD OUTPUT BIKE ROOM
B3	LED 3000K 3000LM/80CRI 28W	LITHONIA (OR APPROVED OTHER)	CLXL36 SERIES	TYPE :3" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	STANDARD OUTPUT ELEVATOR MACHINE ROOM
△ C1a/b ① ③	LED 3000K/90CRI 127LM/FT 2W/FT	ECOSENSE (OR APPROVED OTHER)	TROV L35I SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (IN COVE) HOUSING :ALUMINUM LENS/REFL :CLEAR POLYCARBONATE/SNAP ON VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING-ELV)	C1a = 2FT LENGTH C1b = 4FT LENGTH MAIN LOBBY △
C2	LED 650LM/80CRI 3000K 10W	LIGHTOLIER (OR APPROVED OTHER)	SSR SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	FINISH PER ARCHITECT. UL LISTED DAMP LOCATION RESTROOMS, DOG WASH
C3	LED 1000LM/80CRI 3000K 11W	LIGHTOLIER (OR APPROVED OTHER)	L4R SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC/CLEAR DIFFUSE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FINISH PER ARCHITECT. LOBBY, CORRIDORS
C4	LED 1500LM/80CRI 3000K 13W	LIGHTOLIER (OR APPROVED OTHER)	L5R SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC/CLEAR DIFFUSE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FINISH PER ARCHITECT. CORRIDORS
△ C5	LED 650LM/80CRI 3000K 8W	LIGHTOLIER (OR APPROVED OTHER)	L4RA SERIES	TYPE :4" DIA. ADJ.DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FIELD AIM PER ARCHITECT'S DIRECTION FINISH PER ARCHITECT. LOBBY, CORRIDOR
△ C6a/b ③	LED 3000K/90CRI 327LM/FT 4W/FT	ECOSENSE (OR APPROVED OTHER)	TROV L35I SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (IN COVE) HOUSING :ALUMINUM LENS/REFL :CLEAR POLYCARBONATE/SNAP ON VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING-ELV)	C1a = 2FT LENGTH C1b = 4FT LENGTH RESIDENTIAL CORRIDORS

LIGHTING FIXTURE LIST – DECORATIVE					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
△ △ LF1	LED 330LM/FT 3000K 3W/FT	KELVIX (OR APPROVED OTHER)	PH30K 24V W/ CH409 CHANNEL	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM CHANNEL LENS/REFL :WHITE ACRYLIC LENS VOLTAGE :24V BALLAST :LED DRIVER 0-10 DIMMING	TAPE & CHANNEL TO MOUNT AT UNDER- SIDE OF SHELF. CONSULT WITH INTERIOR DECORATOR'S DETAILS AND COORDINATE INSTALLATION. COFFEE BAR, COMMUNITY RM
LF2	LED 3000K/90CRI 5040LM 56W	KUZCO (OR APPROVED OTHER)	EEREIE PR19347 SERIES	TYPE :LINEAR PENDANT MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :OPAL SILICON VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING/ELV)	FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR MAIL ROOMS
LF3		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF4	LED 3000K 850LM/90CRI 9W	USAI LIGHTING (OR APPROVED OTHER)	B3RDM SERIES	TYPE :3" DIA DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :SLQITE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	45 DEGREE BEAM SPREAD PROVIDE WITH USAI POWER SUPPLY BLACK BEVEL TRIM & MILLWORK FLANGE IC RATED BLDG A COFFEE BAR
LF5	(8) JCD/G9 LED 3000K/80CRI	ARTORAFT LIGHTING (OR APPROVED OTHER)	AVENTURA SERIES	TYPE :LARGE PENDANT MOUNTING :SUSPENDED HOUSING : LENS/REFL : VOLTAGE :120V BALLAST :LED DRIVER (0/10 DIMMING)	FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG B LOBBY
LF6	(1) LED LAMP (MED. BASE) 3000K/80CRI 8W	SUN VALLEY BRONZE (OR APPROVED OTHER)	HUDPEND-2000 SERIES	TYPE :SMALL PULLEY PENDANT MOUNTING :SUSPENDED HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK PATINE FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR. BLDG B LOUNGE
LF7	(1) G9 LED 3000K 220LM/80CRI 4W	ANDLight (OR APPROVED OTHER)	ORB-P SERIES	TYPE :PENDANT MOUNTING :SUSPENDED HOUSING :STEEL WIRE LENS/REFL :ETCHED GLASS VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR RESTROOM
LF8	(3) LED LAMPS (MED. BASE) 3000K/80CRI 225W	TROY LIGHTING (OR APPROVED OTHER)	HENDRIX F6886 SERIES	TYPE :CHANDELIER MOUNTING :SUSPENDED HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK IRON FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG A CLUBROOM
LF9	(1) GU10 LED 3000K/80CRI 9W	RESTORATION HARDWARE (OR APPROVED OTHER)	ORBITER II 68830997 SERIES	TYPE :SCONCE MOUNTING :SURFACE HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BRONZE FINISH PER MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG A CLUBROOM
△ LF10		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
△ LF11	LED 3000K/90CRI 780LM 13W	KUZCO LIGHTING (OR APPROVED OTHER)	WS83218 SERIES	TYPE :SCONCE MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :OPAL GLASS VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY ADA COMPLIANT BLACK FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR TYPICAL UNIT ENTRY
△ LF12 ⑧	LED 3000K/80CRI 500LM/FT 9.4W/FT	NULITE (OR APPROVED OTHER)	RP14-B-FF SERIES	TYPE :8FT DIRECT/INDIRECT LINEAR MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	60% DOWN-40% UP DISTRIBUTION MOUNT AT 10FT AFF TO BOTTOM OF FIXTURE. STANDARD WHITE FINISH BIKE ROOMS BLDG B FITNESS ROOM
LF13		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF14	LED 3000K/80CRI 1300LM 16W	KUZCO (OR APPROVED OTHER)	FM11410 SERIES	TYPE :9" DIA DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING/ELV)	BLACK FINISH PER INTERIOR DECORATOR BLDG A WOOD CEILINGS
△ LF15		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF16	(1) G9 LED (WEDGE BASE) 3000K/80CRI 13W	HUDSON VALLEY LIGHTING (OR APPROVED OTHER)	8701-AGB SERIES	TYPE :WALL SCONCE MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	FINISH PER INTERIOR DECORATOR. MOUNTING HEIGHT PER INTERIOR DECORATOR. BLDG A LOBBY, CLUB RM/BLDG B LOBBY

GENERAL NOTES:

- A. ALL LIGHT FIXTURES SHALL HAVE ENERGY EFFICIENT LAMPING AND BALLASTS.
- B. LIGHT FIXTURES FOR LIVING UNITS SHALL BE "ENERGY STAR" RATED.
- C. EXTERIOR LIGHT FIXTURES SHALL BE "NIGHT SKY" FRIENDLY.
- D. VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.
- E. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO BID.
- F. VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
- △

G. ALL INTERIOR LIGHTING SHALL BE 3000 KELVIN UNLESS OTHERWISE NOTED.
- H. ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND IS SUBJECT TO OWNER APPROVAL.
- I. CONTRACTOR SHALL CONSULT MANUFACTURER INSTALLATION INSTRUCTIONS FOR ALL FIXTURES AND DEVICES AND INSTALL AS INSTRUCTED. THIS INCLUDES ALL ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. WORK SHALL BE PERFORMED SUCH THAT MANUFACTURER WARRANTY IS NOT VOIDED.
- J. THE ELECTRICAL CONTRACTOR SHALL CONSULT THE INTERIOR DESIGN PLAN SET FOR ALL FINISHES, MOUNTING HEIGHTS AND OTHER INSTALLATION REQUIREMENTS REGARDING THE "LF" LIGHT FIXTURES LISTED IN THE FIXTURE SCHEDULE ON THIS SHEET.
- △

K. IF NECESSARY, CONTRACTOR SHALL PROVIDE IC RATED BOXES FOR ANY APPROVED, SUBSTITUTED FIXTURES NOT MEETING INSULATED CEILING REQUIREMENTS.
- △

L. BUILDING MOUNTED EXTERIOR WALL SCONCES, TYPE S33b, TO BE CONTROLLED VIA PHOTOCELL AND BE PROVIDED WITH A TIME CLOCK TO REDUCE LIGHT OUTPUT BY 30% DURING LATE NIGHT TO REDUCE REFLECTANCE INTO TENANT LIVING UNITS. FIXTURES DESIGNATED TO BE EGRESS SHALL BE BE WIRED SUCH THAT IN THE EVENT OF A POWER OUTAGE, THE LIGHTS AUTOMATICALLY RETURN TO FULL OUTPUT. TIME CLOCK SETTINGS TO BE DETERMINED BY THE OWNER.

KEYED LIGHTING NOTES:

1. CONTRACTOR TO DETERMINE FIXTURE LENGTH BASED ON ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS. DESIGN INTENT IS FOR THE FIXTURE TO RUN THE ENTIRE LENGTH OF THE "COVE" TO PROVIDE EVEN LIGHT DISTRIBUTION.
2. STAIRWELL AND BOH CORRIDOR LIGHT FIXTURES TO BE EQUIPPED WITH FACTORY INSTALLED (OR REMOTE) OCCUPANCY SENSORS FOR MIN. 50% LIGHT REDUCTION DURING PERIODS OF NO ACTIVITY.
- △

3. MAXIMUM RUN LENGTH FOR SPECIFIED COVE LIGHT FIXTURE IS (186) 4FT UNITS. MULTIPLE RUNS SHALL BE CIRCUITED AS NOTED ON THE PLANS. CONTRACTOR SHALL PROVIDE THE APPROPRIATE MOUNTING AND CONNECTING HARDWARE PER MANUFACTURER'S REQUIREMENTS. CONSULT VENDOR FOR ADDITIONAL INSTALLATION INFORMATION.
- △

4. CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALL. 24V FIXTURE TRANSFORMER/POWER SUPPLY TO BE LOCATED IN THE CABINET BELOW THE SHELVING.
5. CONTRACTOR TO PROVIDE SINGLE POLE DIMMER SWITCHES AS INDICATED ON SHEETS E4.01-E4.03. DIMMER SWITCHES SHALL MATCH THE DECORATOR TYPE ROCKER SWITCH SPECIFIED IN THE TYPICAL UNIT LIGHTING PLANS OR AS DIRECTED BY THE OWNER. DIMMER SWITCHES SHALL BE COMPATIBLE WITH THE LED LIGHT FIXTURES AND SHALL BE FULLY ADJUSTABLE. CONTRACTOR SHALL FIELD ADJUST TO REDUCE ANY MOMENTARY FLASH DURING START UP.
6. PROVIDE BLOCKING AT CEILING TO SUPPORT 35LB., MINIMUM, FOR CEILING FAN INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. PROVIDE FIXTURE CONTROL SWITCH(ES) AS DIRECTED BY MANUFACTURER.
7. PROVIDE WITH WEATHER PROOF J-BOX FOR SOIL CONTACT.
- △

8. VERIFY MOUNTING HEIGHT OF FIXTURES IS NOT IN CONFLICT WITH ROOM EQUIPMENT.
- △

9. BOLLARD LIGHTS ALONG THE BUILDING WALKWAYS SHALL BE INSTALLED SUCH THAT ANY PROJECTION FACES AWAY FROM THE BUILDING.
- △

10. LED TAPE & CHANNEL LIGHTS AT EXTERIOR PLAZA SHALL BE MOUNTED AS DIRECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALL.

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IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

- REVISIONS
- △ PLAN REVIEW 01.24.2020
- △ PLAN REVIEW 03.13.2020
- △ PLAN REVIEW 04.24.2020
- △ PLAN REVIEW 08.10.2020

AEGIS
MIXED-USE DEVELOPMENT
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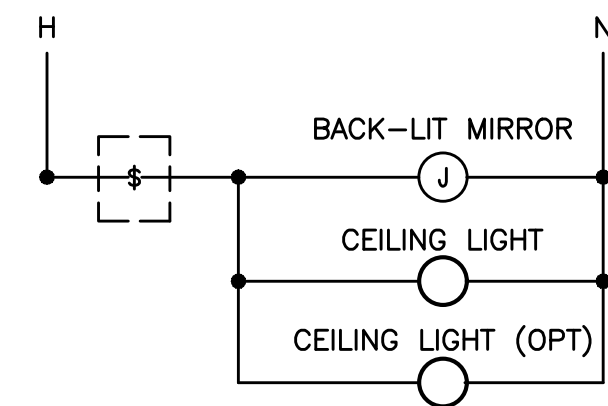
SHEET:

E1.21

LIGHTING FIXTURE LIST – SITE & EXTERIOR					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
LS1 ⑦	LED 3000K 100LM 3W	DALS LIGHTING (OR APPROVED OTHER)	LEDSTEP0050 SERIES	TYPE :STEP LIGHT (+10" AFF) MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY UL LISTED FOR WET LOCATION FINISH PER ARCHITECT. VERIFY EXACT LOCATION WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. ROOF TERRACE
LS2 ⑩	LED 3000K 500LM/FT 5W/FT	JESCO LIGHTING (OR APPROVED OTHER)	DL-AC-FLEX SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (CHANNEL) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	MOUNT UNDER COUNTER TOP EDGE. VERIFY EXACT LENGTH BEFORE ORDERING VERIFY EXACT LOCATION WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. UL LISTED FOR WET LOCATION ROOF TERRACE
LS3	LED 3000K 342LM 8W	BEGA LIGHTING (OR APPROVED OTHER)	33-054 SERIES	TYPE :LED STEP LIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :120V BALLAST :LED DRIVER	VERIFY EXACT LENGTH BEFORE ORDERING VERIFY EXACT LOCATION AND MOUNTING WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. UL LISTED FOR WET LOCATION ROOF TERRACE, PLAZA
S1 ⑨	LED 3000K 855LM 8W	LIGMAN LIGHTING (OR APPROVED OTHER)	PRAGUE SERIES UPRA-10002	TYPE :40" BOLLARD LIGHT MOUNTING :AT GRADE HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH PHOTOCELL, EITHER INTAGRAL OR REMOTE. TYPE II DISTRIBUTION. MOUNT PER MFR'S REQUIREMENTS UL LISTED WET LOCATION/VERIFY ADA BUILDING WALKWAYS
S2	LED 3000K 5500LM 49W	LITHONIA LIGHTING (OR APPROVED OTHER)	DSX0 P2 SERIES	TYPE :AREA LIGHT (SINGLE/TWIN HEAD) MOUNTING :POLE MOUNT (+20'-0") HOUSING : LENS/REFL : VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III MEDIUM DISTRIBUTION INTEGRAL PHOTOCELL PARKING AREA
S3a	LED 3000K 975LM 14W	USAI LIGHTING (OR APPROVED OTHER)	BEVELED 1020 SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER	UL LISTED WET LOCATION CUSTOM FINISH TO MATCH METAL SOFFIT BLACK OR BRONZE FINISH PER ARCHITECT MAIN BUILDING ENTRANCES
S3b	LED 3000K 650LM 10W	BEGA LIGHTING (OR APPROVED OTHER)	66-655 SERIES	TYPE :EXTERIOR SCONCE MOUNTING :SURFACE (+8'-0" AFG) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	20 DEGREE BEAM ANGLE. FIXTURE SHALL BE DOWNLIGHT ONLY. FIXTURES LOCATED AT ROOF TERRACE MOUNT AT 7'-0" AFF. BLACK OR BRONZE FINISH PER ARCHITECT BUILDING EXTERIOR, ROOF TERRACE
S4	LED 3000K 1000LM 14W	LIGHTOLIER LIGHTING (OR APPROVED OTHER)	S7R SERIES	TYPE :7" DIA. DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	BLACK OR BRONZE FINISH PER ARCHITECT UL LISTED WET LOCATION BUILDING EXTERIOR
S5	LED 3000K 2450LM 22W	GARDCO LIGHTING (OR APPROVED OTHER)	PWS SERIES	TYPE :EXTERIOR WALL PACK MOUNTING :SURFACE (+8'-0") HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III DISTRIBUTION BUILDING SERVICE ENTRANCES
S6	LED 3000K 1000LM 15W	ALCON LIGHTING (OR APPROVED OTHER)	11235 DIR-15 SERIES	TYPE :5" DIA EXTERIOR CYLINDER MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :CLEAR TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	60 DEGREE WIDE FLOOD UL LISTED WET LOCATION ROOF TERRACE
S7	LED 3500K 1000LM 10W	EMERGENSEE LIGHTING (OR APPROVED OTHER)	SEEUJ SERIES	TYPE :EXTERIOR EMERGENCY LIGHT MOUNTING :MULLION MOUNTED HOUSING :ALUMINUM LENS/REFL : VOLTAGE :MVOLT BALLAST :LED DRIVER	DARK BRONZE FINISH PER ARCHITECT UL LISTED WET LOCATION LEASE SPACE STOREFRONT

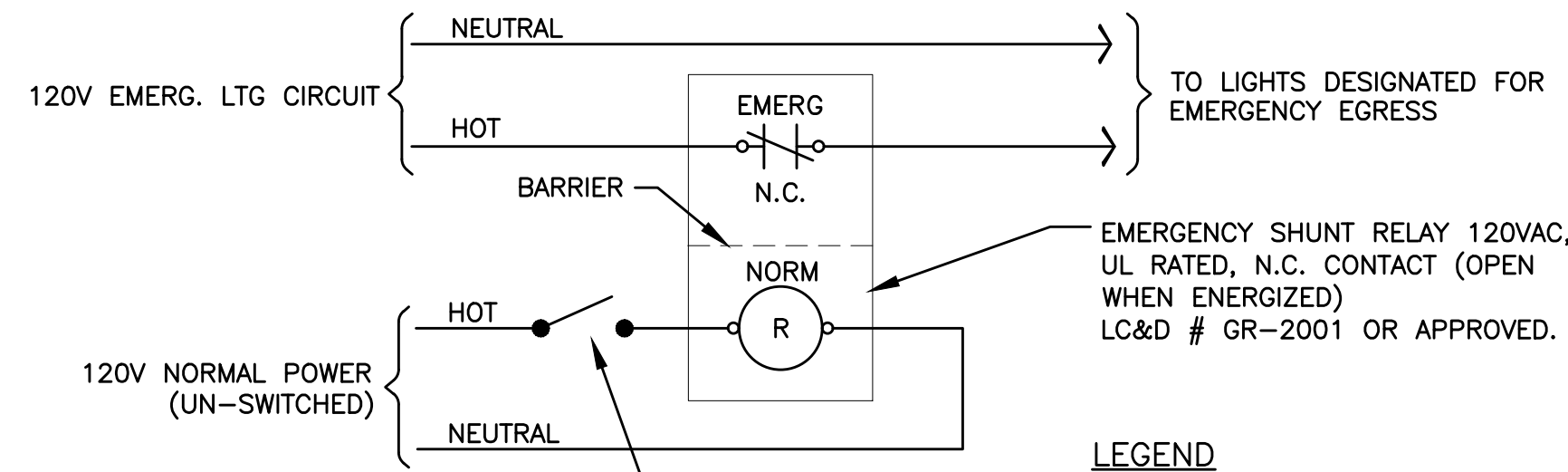
LIGHTING NOTES:

A. REFER TO SHEET E1.21 FOR ADDITIONAL LIGHTING AND KEYED NOTES.



BATHROOM WITH CEILING LIGHT(S)
& BACK-LIT MIRROR

2 BATHROOM SWITCHING DIAGRAMS – TYPICAL
E1.22 NO SCALE

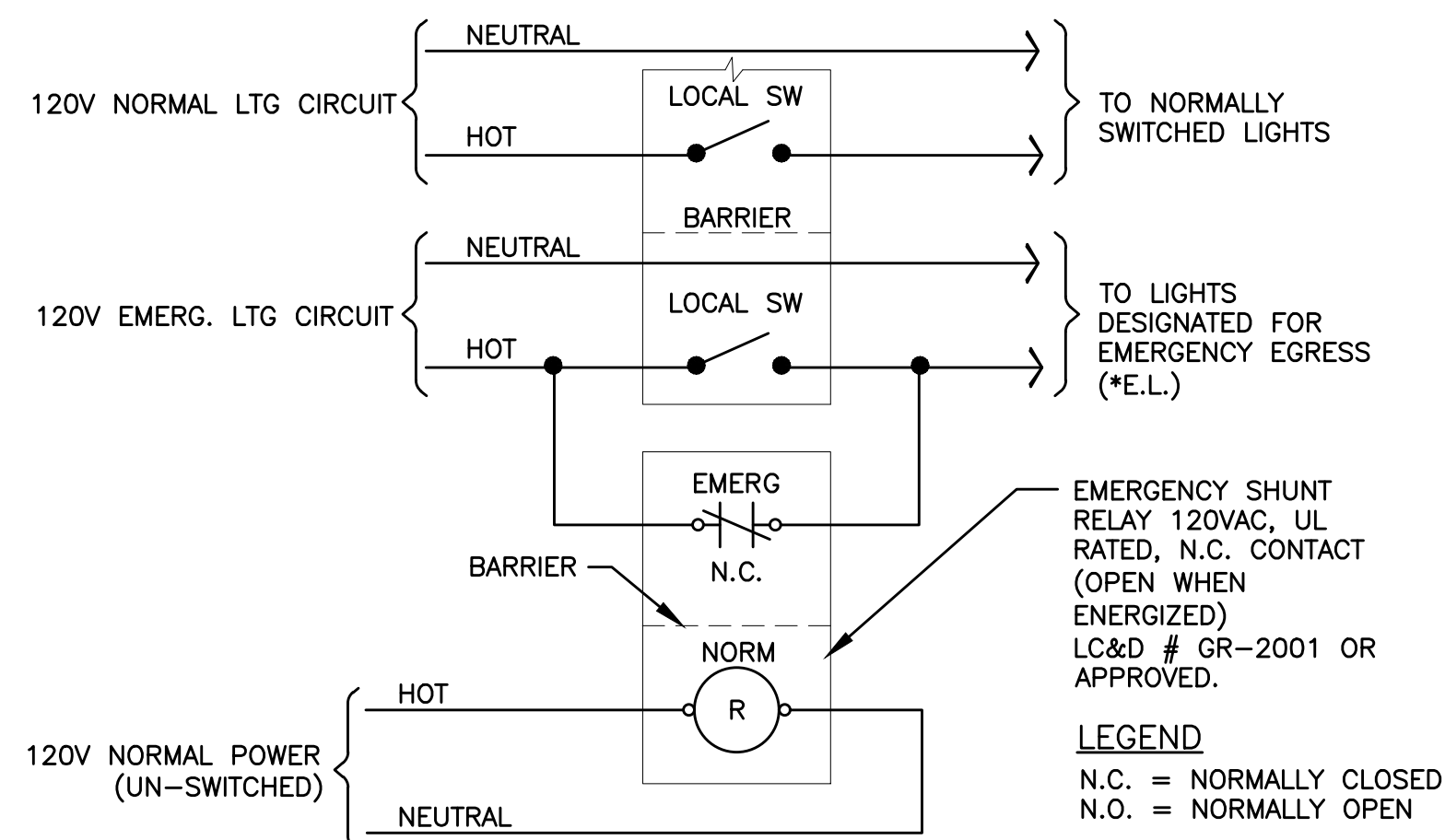


SWITCH NEXT TO 'EMERGENCY SHUNT RELAY'.
LABEL "EMERG. LIGHTS TEST SWITCH"

3 EMERGENCY EGRESS LIGHTING – UNSWITCHED
E1.22 NO SCALE

LIGHTING FIXTURE LIST – EXITING					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'X1'	LED (GREEN LETTERS) (1.5W)	LITHONIA DMF LIGHTING (OR APPROVED OTHER)	LE EL N SERIES DLED500EM-G	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE/DUAL FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	
X2		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
'X3'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APPROVED OTHER)	WLTE EL SERIES BLACK FINISH	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION
'X4'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APPROVED OTHER)	LRE SERIES	TYPE :EXIT SIGN MOUNTING :RECESSED HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	MOUNTED CENTERED ABOVE DOOR UNLESS OTHERWISE NOTED.
'X5'	LED (GREEN LETTERS) (3.5W)	EATON (OR APPROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT STOREFRONT MULLION
'X6'	LED (GREEN LETTERS) (3.5W)	EATON (OR APPROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE/DOUBLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT CEILING

LIGHTING FIXTURE LIST – TYPICAL LIVING UNITS					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
U1 ⑤	LED 650 LM 3000K 10W	LIGHTOLIER (OR APPROVED OTHER)	S5R SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN, HALL
U2	LED 750 LUMEN 3000K (18W)	KUZCO LIGHTING (OR APPROVED OTHER)	FM3511 SERIES	TYPE :11" DIA. CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER	FINISH PER ARCHITECT. UNIT DINING
U3	LED 3000K 200LM 5W	WAC LIGHTING (OR APPROVED OTHER)	HR-LED90 SERIES	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :24V BALLAST :LED DRIVER (ELV DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN
U4 ⑥	(1) 18W LED 1400LM/90CRI 3000K 35W	FANTIMATION (OR APPROVED OTHER)	HUGH 52 SERIES	TYPE :52" CEILING FAN W/ LIGHT KIT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LAMP W/INTEGRAL LED DRIVER	WHITE FINISH PROVIDE BRACING AT CEILING TO SUPPORT A MINIMUM OF 35 LBS. PROVIDE W/ MODEL #WC2WH CONTROL SWITCH UNIT BEDROOM

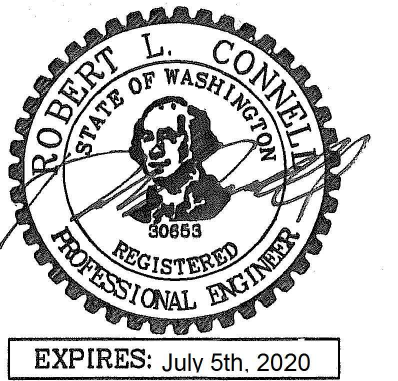


4 EMERGENCY EGRESS LIGHTING – SWITCHED
E1.22 NO SCALE

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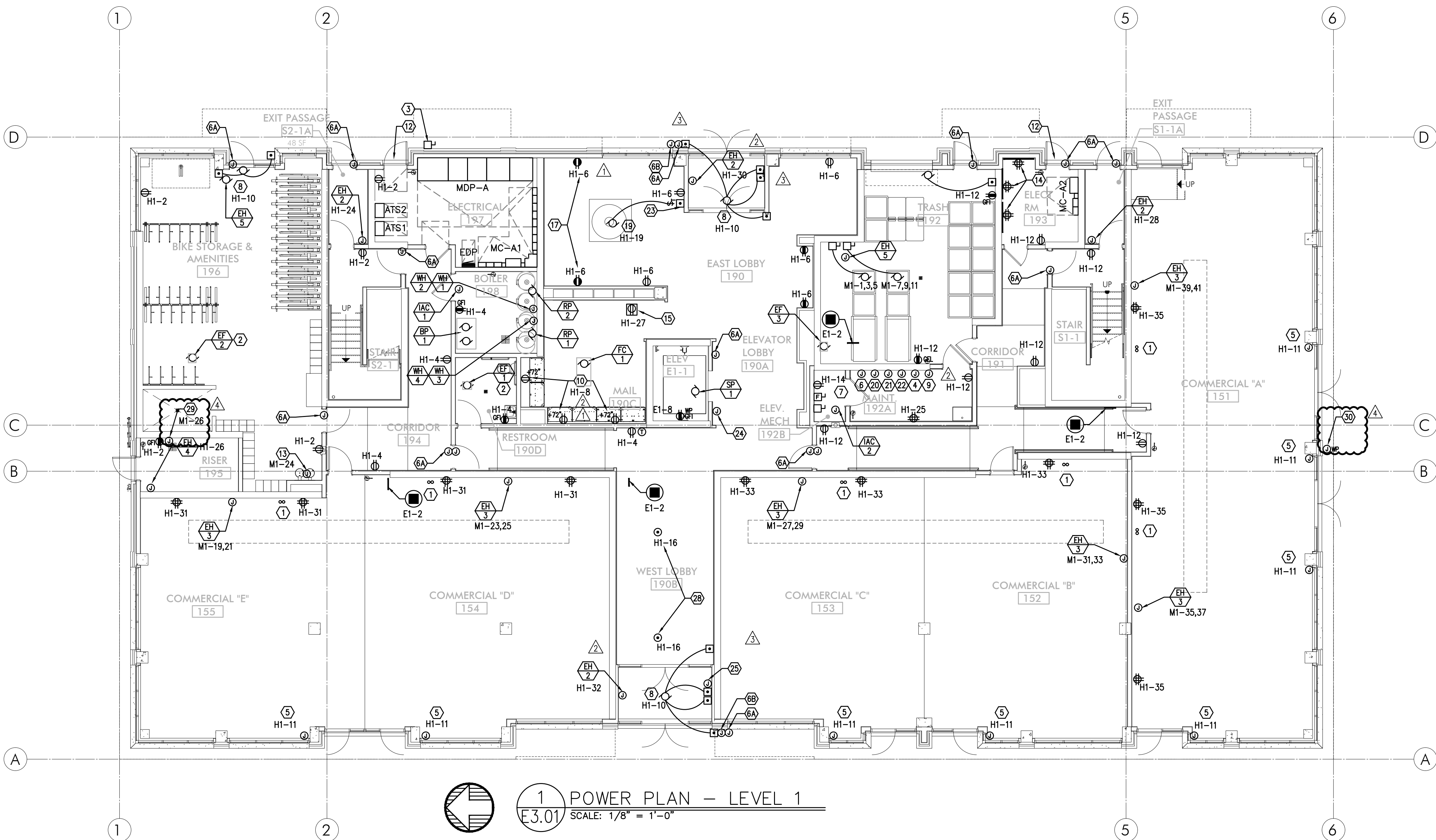
PROJECT # 2017-053
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AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.22



GENERAL POWER NOTES:

- A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- G. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.
- H. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- I. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON TYPICAL PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.
- J. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ("T" SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.
- K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

KEYED NOTES:

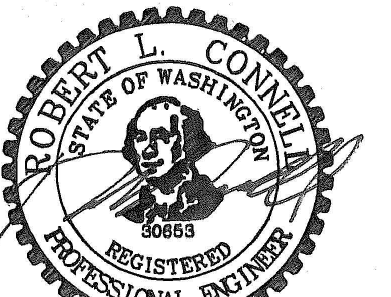
1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC-A2 IN CEILING ABOVE AND STUBBED INTO LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 23.
5. PROVIDE ONE 20A, 120V, 1P POWER CONNECTION FOR TENANT BUILDING SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 22 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE "T" SERIES SHEETS FOR ADDITIONAL INFORMATION.
- 6A. ENTRY ACCESS POINT.
- 6B. APARTMENT CALL DIRECTORY.
7. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
8. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 10 FOR AUTOMATIC DOOR OPENERS.
9. PROVIDE ONE 20A, 120V, 1P DEDICATED CIRCUIT FROM PANEL H1, CKT 29 FOR DAS SYSTEM.

10. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF. CIRCUIT AS INDICATED.
11. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR A/V SYSTEM CONTROL, FROM PANEL H2, CKT 15. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.
12. ELECTRICAL SERVICE METER ROOMS SHALL HAVE OUTWARD SWING DOORS EQUIPPED WITH PANIC HARDWARE. PROVIDE A KEY BOX AT THE EXTERIOR FOR CLARK PUBLIC UTILITIES 24/7 ACCESS.
13. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR DRINKING FOUNTAIN FROM PANEL M1, CKT 24. CONSULT MECHANICAL AND/OR PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN.
14. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM PLANS ("T" SERIES SHEETS) AND LOW VOLTAGE SYSTEMS INSTALLERS, AND PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 'H1' SCHEDULE ON E1.13 FOR CIRCUITS.
15. CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
16. DEDICATED SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
17. PROVIDE RECEPTACLE WITH TYPES A & C USB PORTS, LEVITON T5633-T OR APPROVED EQUAL.

18. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 18 FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
19. CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE. PROVIDE ELECTRICAL CONNECTION(S) AS NEEDED FROM PANEL H1, CKT 19. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") FOR FIREPLACE IGNITER CONTROLS. INTERCONNECT WITH POWER VENT LOCATED ON ROOF.
20. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 15 FOR THE APARTMENT ENTRY SYSTEM PRIMARY CONTROL PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED, TO EACH UNIT ENTRY. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE "T" SERIES SHEETS FOR ADDITIONAL INFORMATION.
21. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 27 FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE "T" SERIES SHEETS FOR ADDITIONAL INFORMATION.
22. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 19 FOR THE FIRE ALARM CONTROL PANEL. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE "T" SERIES SHEETS FOR ADDITIONAL INFORMATION.

23. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'E1'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUT-OFF DIAGRAM.
24. AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ("T" SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED.
25. PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
26. PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS. COORDINATE EXACT LOCATION WITH THE SYSTEM INSTALLER.
27. PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM.
28. CONSULT ARCHITECT/INTERIORS PLANS TO VERIFY EXACT LOCATION OF FLOOR BOX DEVICES PRIOR TO ROUGH IN.
29. PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'M1' FOR IRRIGATION CONTROLS. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.
30. PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'H1' FOR LANDSCAPE LIGHTING EQUIPMENT CONNECTION. REFER TO E1.02 FOR MORE INFORMATION. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.

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EXPIRES: July 5th, 2020

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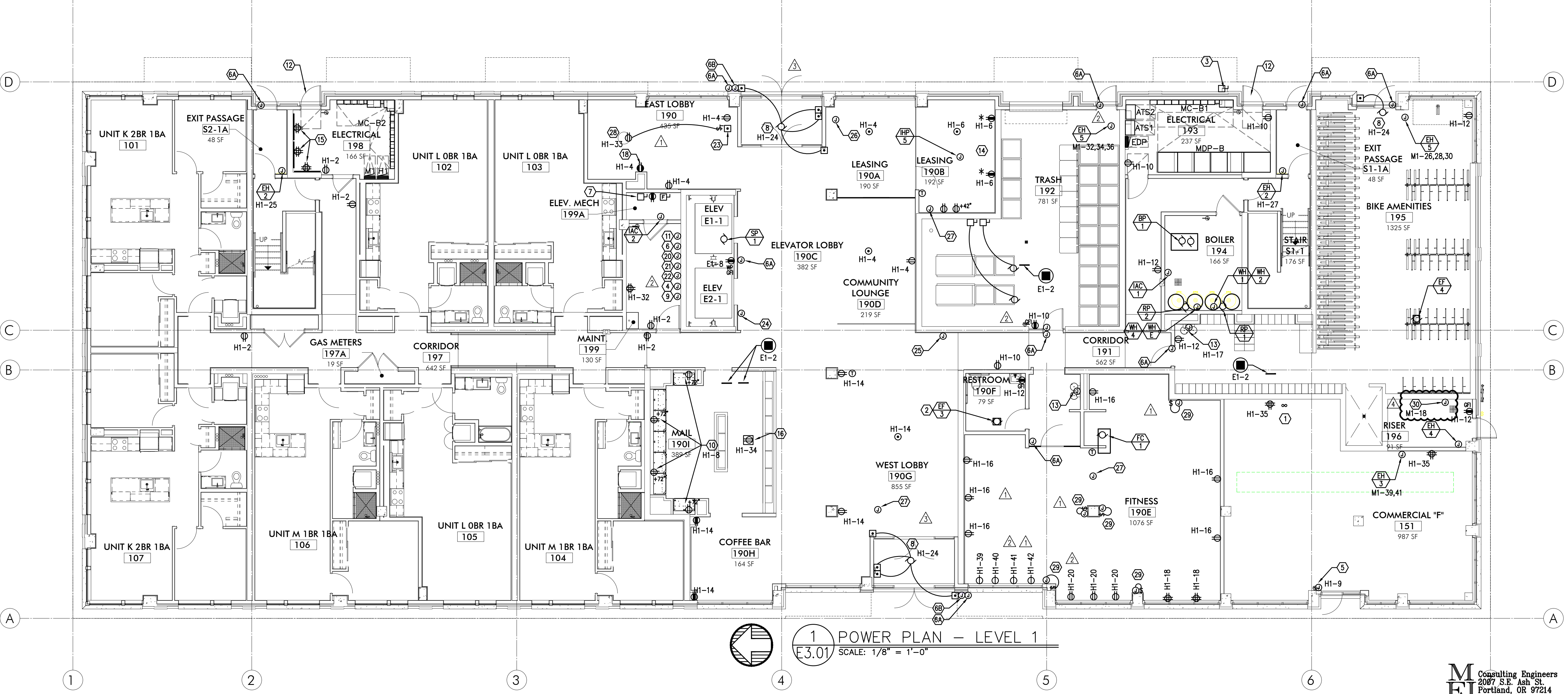
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E3.01

GENERAL POWER NOTES:

- A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- D. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- F. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON TYPICAL PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.
- G. CONSULT ARCHITECTURAL AND/OR INTERIOR DECORATOR PLANS FOR EXACT RECEPTACLE LOCATION IN THE COMMUNITY AREAS, SUCH AS THE LOBBY, CLUB ROOM, LEASE OFFICE, ETC.
- H. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC1 UNDER SLAB AND STUB-UP INTO LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 27.
5. 20A,120V, 1P POWER CONNECTION FOR BLADE SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 30 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
- 6A. ENTRY ACCESS POINT.
- 6B. APARTMENT CALL DIRECTORY.
7. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
8. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 'H1' FOR AUTOMATIC DOOR OPENERS.
9. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 'H1' FOR DAS SYSTEM.
10. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF.
11. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR A/V SYSTEM CONTROL, FROM PANEL H1, CKT 31. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.
12. ELECTRICAL SERVICE METER ROOMS SHALL HAVE OUTWARD SWING DOORS EQUIPPED WITH PANIC HARDWARE. PROVIDE A KEY BOX AT THE EXTERIOR FOR CLARK PUBLIC UTILITIES 24/7 ACCESS.
13. CONSULT MECHANICAL AND/OR PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS OF THE DRINKING FOUNTAIN, IF ANY.
14. PER WASHINGTON STATE ENERGY CODE C405.10, AT LEAST 50% OF THE RECEPTACLES IN THIS SPACE SHALL BE CONTROLLED. RECEPTACLES NOTED WITH '*' SHALL BE CONTROLLED VIA OCCUPANCY SENSOR AND SHALL 'TURN OFF' AFTER A MINIMUM OF 30 MINUTES OF IN-ACTIVITY WITHIN THE SPACE. PROVIDE APPROPRIATE IDENTIFICATION OF EACH CONTROLLED RECEPTACLE. REFER TO THE PANEL SCHEDULES ON E1.12 FOR ADDITIONAL INFORMATION ON WHICH CIRCUIT IS TO BE THE CONTROLLED CIRCUIT.
15. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM PLANS ('T' SERIES SHEETS) AND LOW VOLTAGE SYSTEMS INSTALLERS, AND PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 'H1' SCHEDULE ON E1.16 FOR CIRCUITS.
16. CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION.
17. DEDICATED SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
18. HORIZONTAL RECEPTACLE IN BANQUETTE FACE. REFER TO THE ARCHITECT AND INTERIOR DECORATOR PLANS FOR ADDITIONAL INFORMATION. PROVIDE WITH TYPES A & C USB PORTS, LEVITON T5633-T OR APPROVED EQUAL.
19. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL E1, CKTS 19 & 21 FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
20. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 17 FOR THE APARTMENT ENTRY SYSTEM PRIMARY CONTROL PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED, TO EACH UNIT ENTRY. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
21. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 34 FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
22. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 23 FOR THE FIRE ALARM CONTROL PANEL. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
23. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'E1'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM.
24. AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ('T' SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED.
25. PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
26. PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS.
27. PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM. CIRCUIT FROM PANEL 'H1'.
28. CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE. PROVIDE ELECTRICAL CONNECTION(S) AS NEEDED FROM PANEL 'H1', CKT 33. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") FOR FIREPLACE IGNITER CONTROLS. INTERCONNECT WITH POWER VENT FAN LOCATED ON ROOF.
29. PROVIDE TWO 20A, 120V CIRCUITS, FROM PANEL 'H1' FOR WALL MOUNTED FANS, PROVIDED BY OTHERS. CONSULT INTERIOR DECORATOR FOR EXACT POWER REQUIREMENTS AND MOUNTING HEIGHTS. PROVIDE CONTROL SWITCH PER MANUFACTURER'S/DECORATOR'S DIRECTION.
30. PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'M1' FOR IRRIGATION CONTROLS. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.



1 POWER PLAN - LEVEL 1
E3.01 SCALE: 1/8" = 1'-0"

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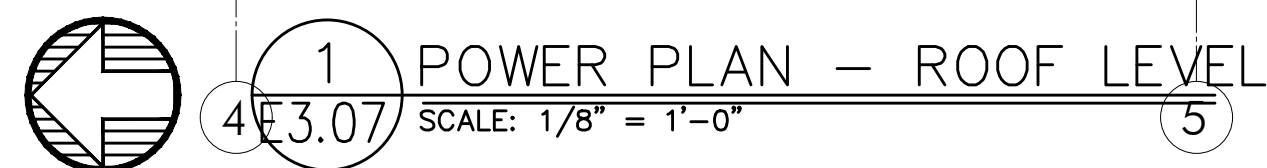
A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.

B. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT POWER REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH IN AND THROUGHOUT CONSTRUCTION.

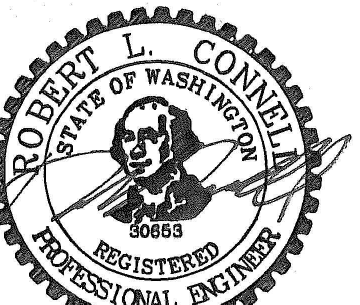
C. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGeways WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CABINETS OR ABOVE FINISHED CEILINGS.

1. HEAT PUMP UNITS TO BE INTERCONNECTED WITH A CORRESPONDING APARTMENT FAN COIL UNIT. REFER TO TYPICAL UNIT PANEL SCHEDULES ON E1.17 FOR CIRCUITING INFO. COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH IN. FOR ADDITIONAL INFORMATION, CONSULT THE MECHANICAL PLAN SHEETS.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS TO LOW VOLTAGE LIGHTING. LANDSCAPE LIGHTING SHALL BE CIRCUITED VIA CIRCUIT H2-21.
3. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS AS REQUIRED FOR LANDSCAPE IRRIGATION AND SHALL BE CIRCUITED VIA CIRCUIT H2-19.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GAS FIREPLACE. CONSULT WITH MECHANICAL CONTRACTOR FOR EXACT WIRING REQUIREMENTS PRIOR TO ROUGH IN. CONSULT INTERIOR DECORATOR FOR EXACT LOCATION OF CONTROL SWITCH(ES) IF REQUIRED.
5. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") IN WEATHER PROOF BOX FOR GAS GRILL AND FIRE PIT IGNITER CONTROLS. CIRCUIT FROM PANEL 'H2'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM.
6. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'H2'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM. PROVIDE WEATHER PROOF LABEL EACH BUTTON WITH DEVICE IT CONTROLS.

7. LOCATE WEATHERPROOF GFCI RECEPTACLES WITHIN 25'-0" OF ALL MECHANICAL EQUIPMENT AS REQUIRED BY CODE. MOUNT AT CURBS WHEREVER POSSIBLE. CIRCUIT AS INDICATED.
-  8. CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE VENT FAN ON ROOF. PROVIDE ELECTRICAL CONNECTION INTERCONNECT WITH FIREPLACE LOCATED AT THE FIRST FLOOR LOBBY.



**M
F
A
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CONTACT: DENISE TAYLOR



EXPIRES: July 5th, 2020

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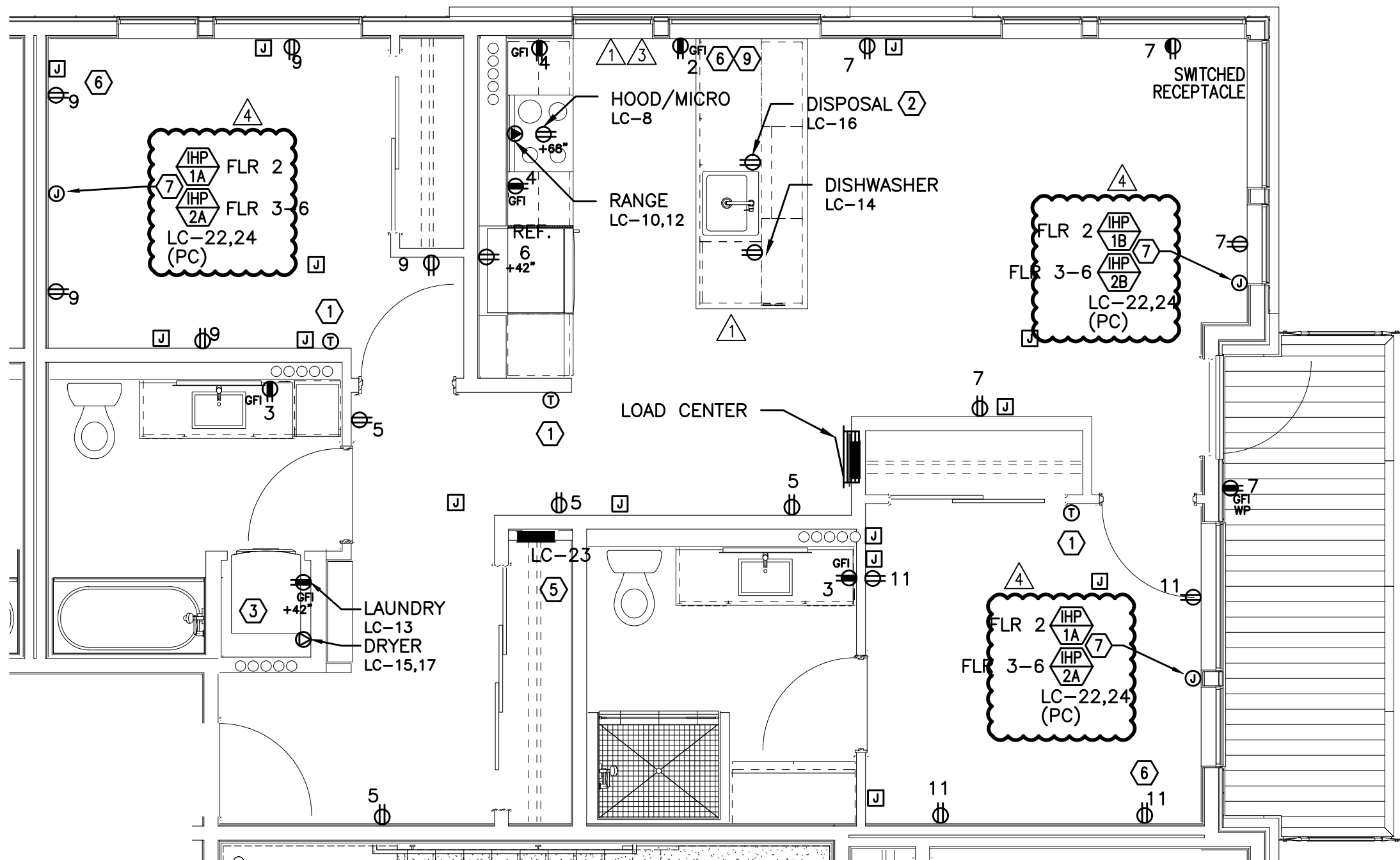
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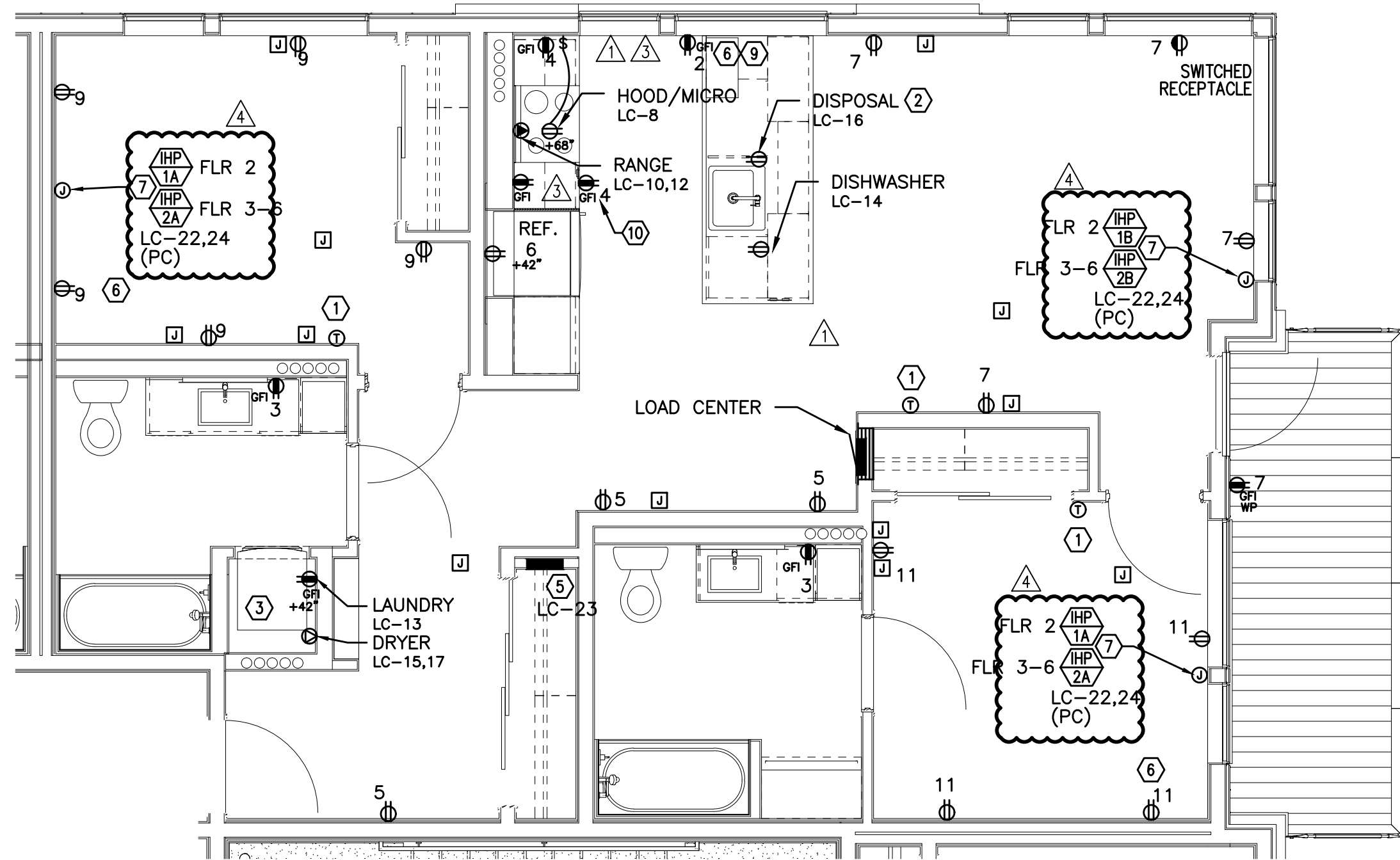
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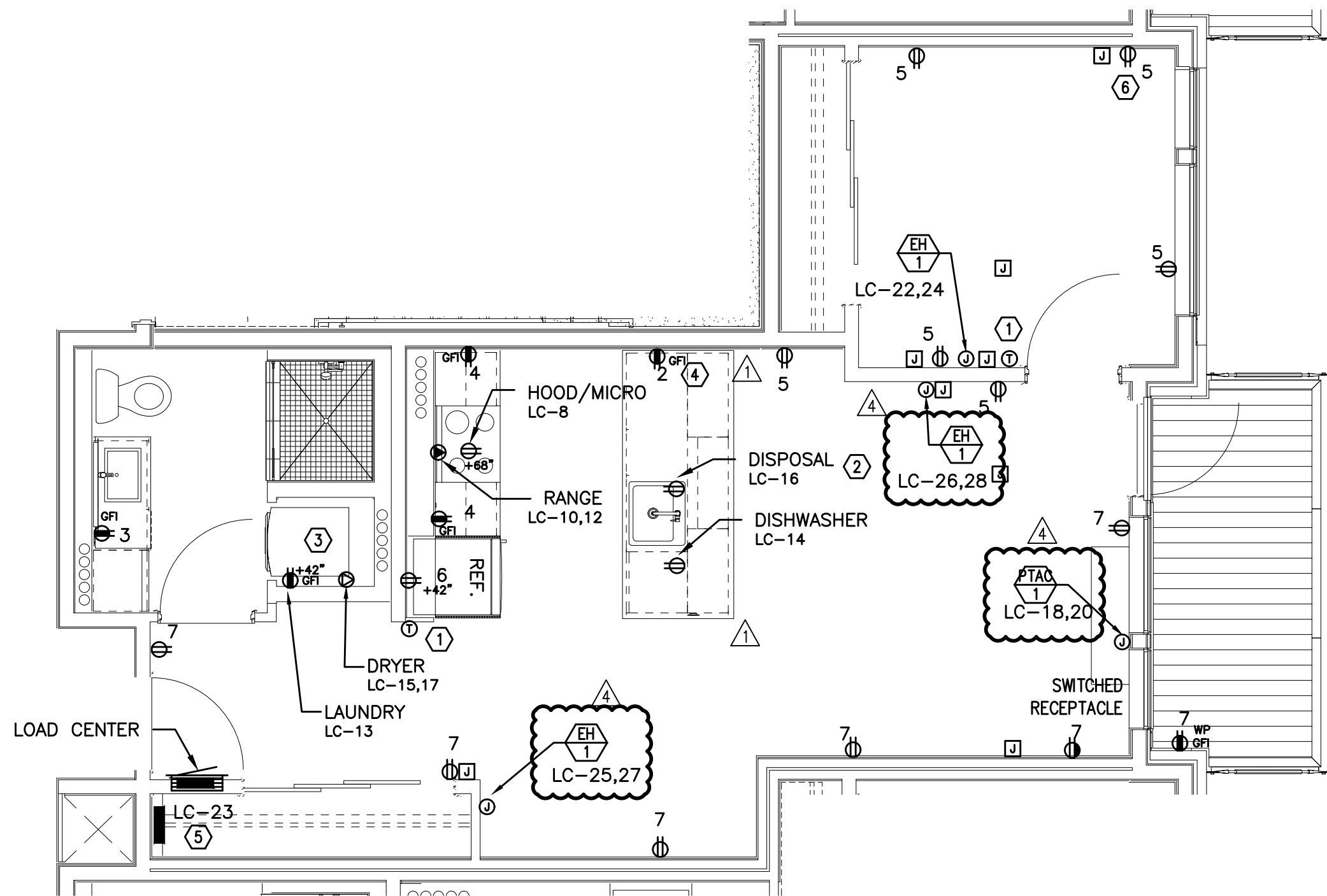
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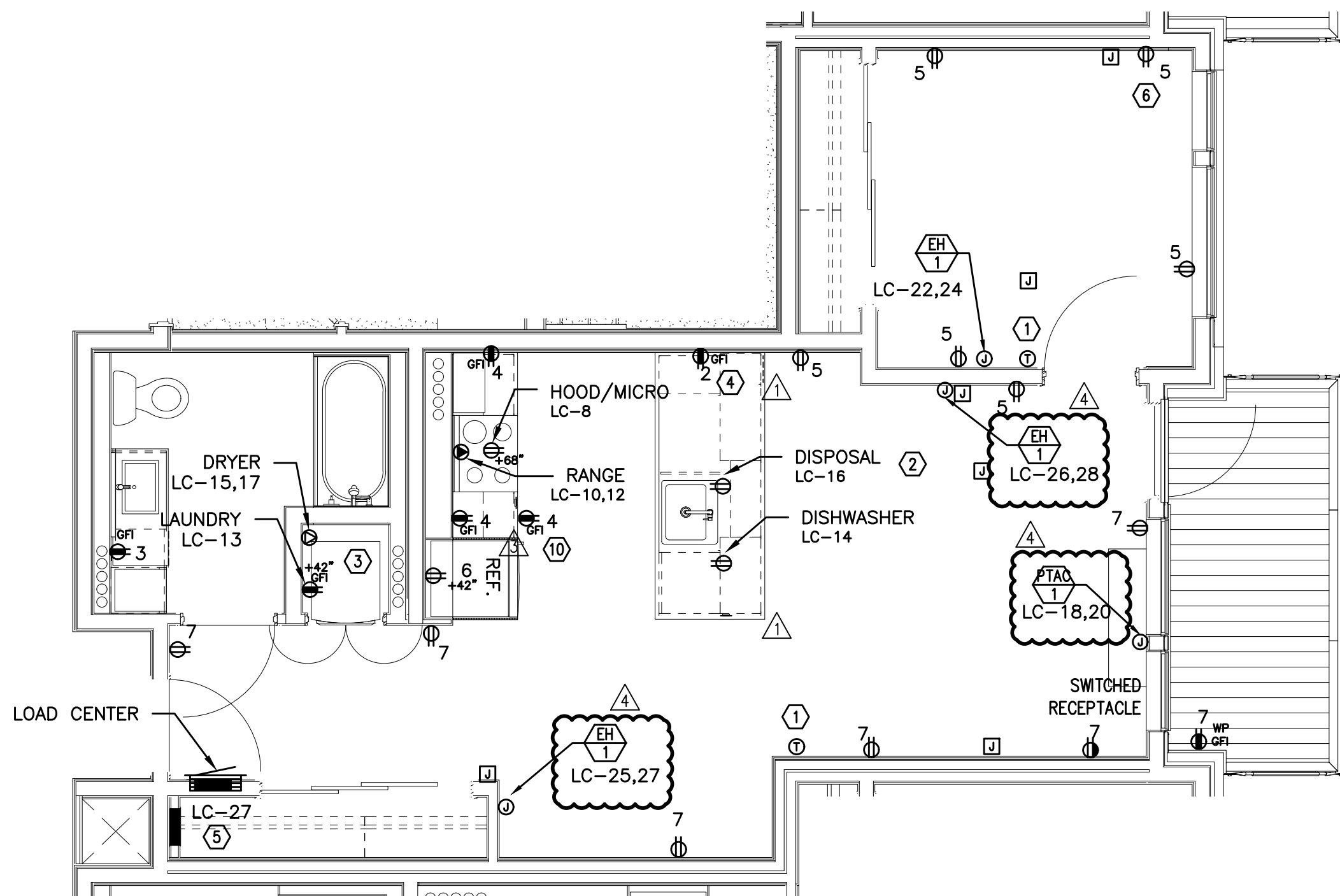
1
E4.11
TYPICAL UNIT TYPE A
2 BED/2 BATH - POWER PLAN
SCALE: 1/4" = 1'-0"



2
E4.11
TYPICAL UNIT TYPE A-ADA
2 BED/2 BATH - POWER PLAN
SCALE: 1/4" = 1'-0"



3
E4.11
TYPICAL UNIT TYPE B
1 BED/1 BATH - POWER PLAN
SCALE: 1/4" = 1'-0"



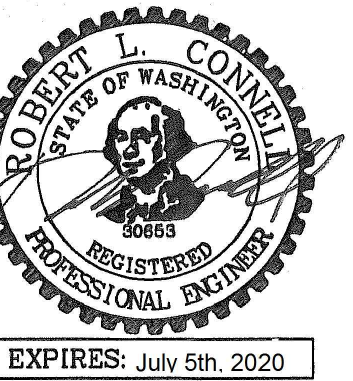
4
E4.11
TYPICAL UNIT TYPE B-ADA
1 BED/1 BATH - POWER PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.
- REFER TO DETAILS ON SHEET E1.23 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.
- STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.
- ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.
- REFER TO SHEET E1.17 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
- COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS (□) REFERS TO ROUGH IN BOXES.

KEYED NOTES:

- PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION. DISPOSAL TO BE PROVIDED WITH "SAFEAIRE" SINK DISPOSAL AIR SWITCH, MOUNTED PER ARCHITECT'S DIRECTION. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO ORDERING.
- REFER TO DETAIL 2/E1.17 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR TELECOM SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 44" A.F.F. (MAX) AT KITCHEN ISLAND/PENNISULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
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- COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS, CONTROLS & LOCATION OF THRU-WALL FAN. TIE INTO BEDROOM RECEPTACLE CIRCUIT.
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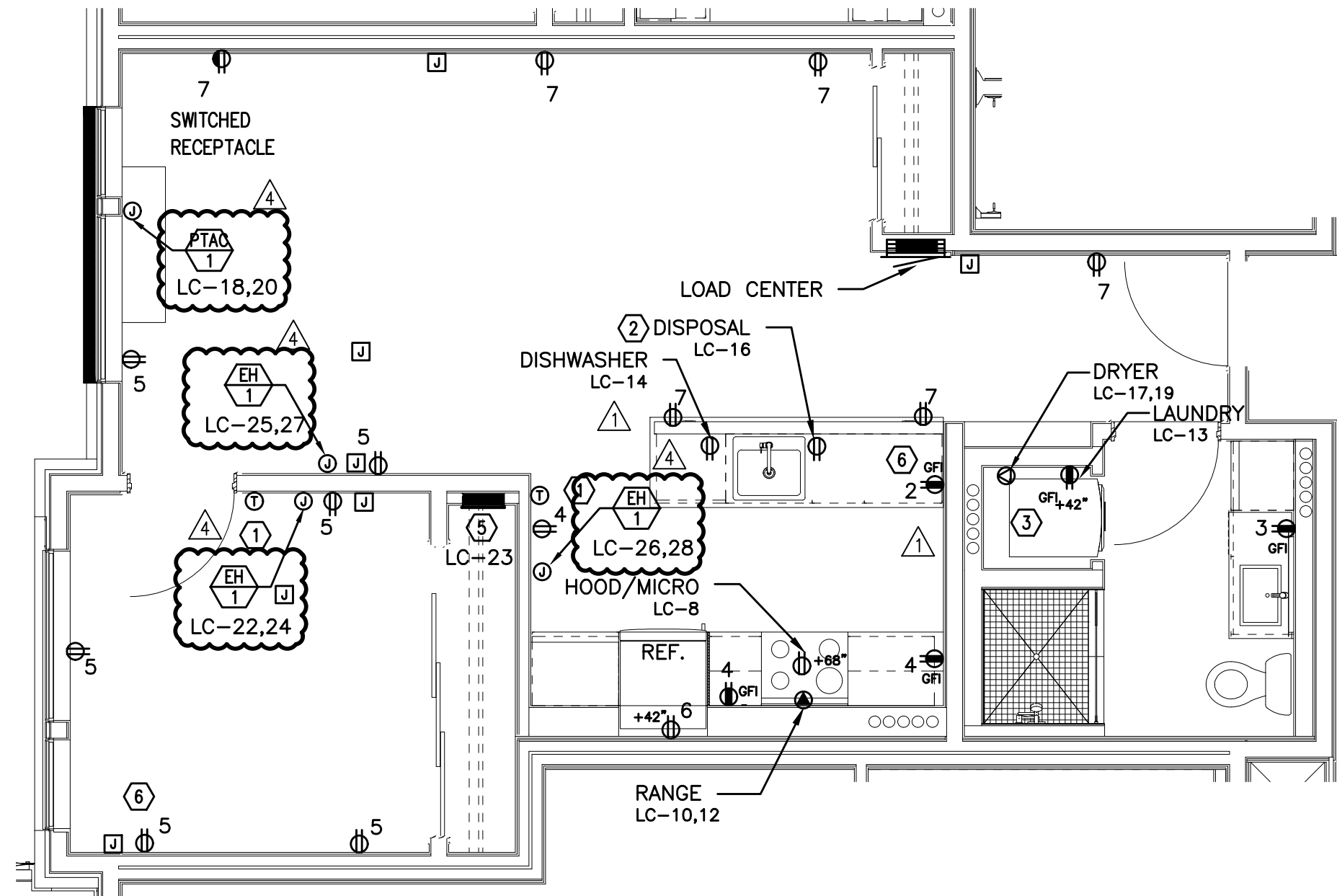


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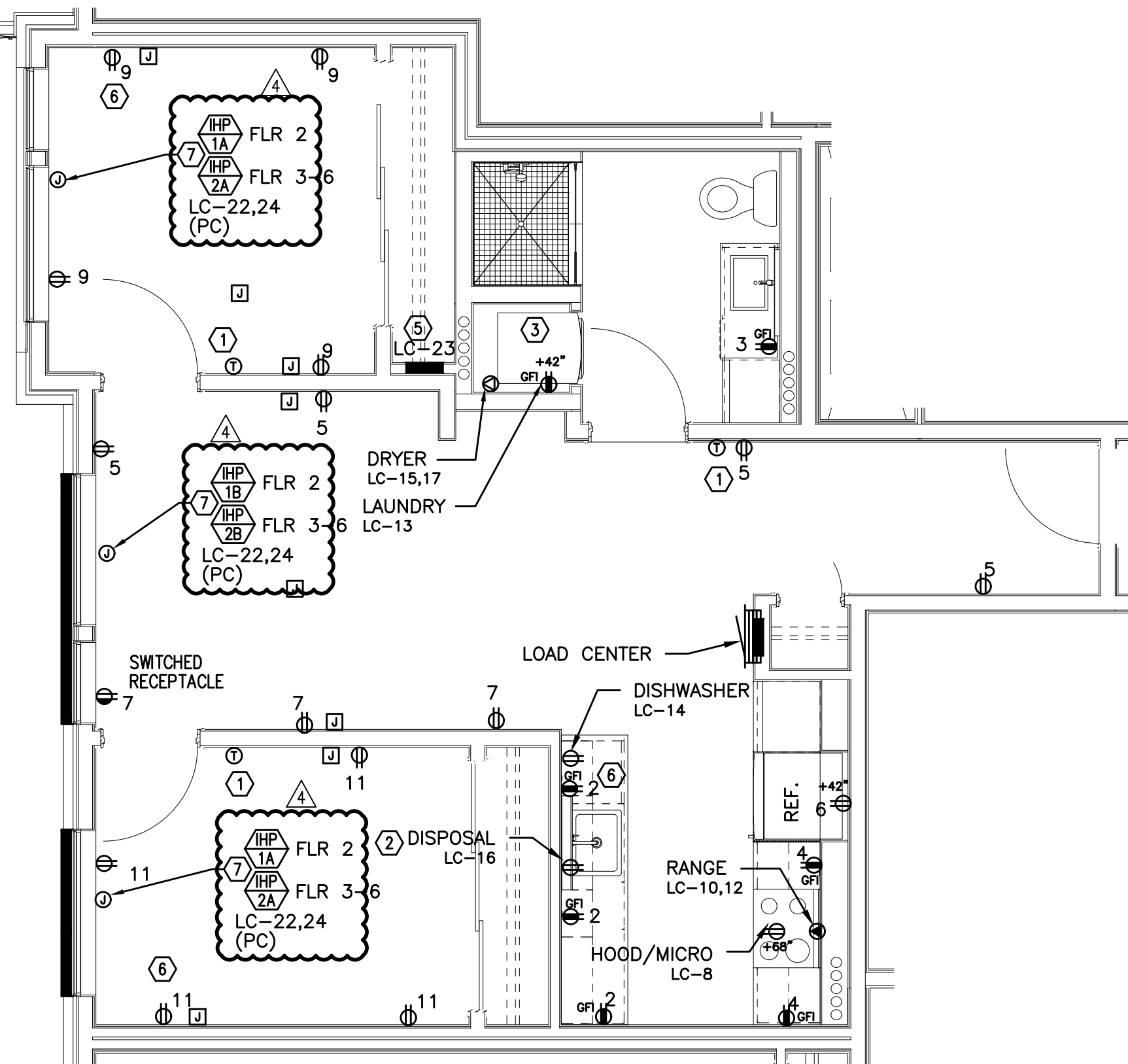
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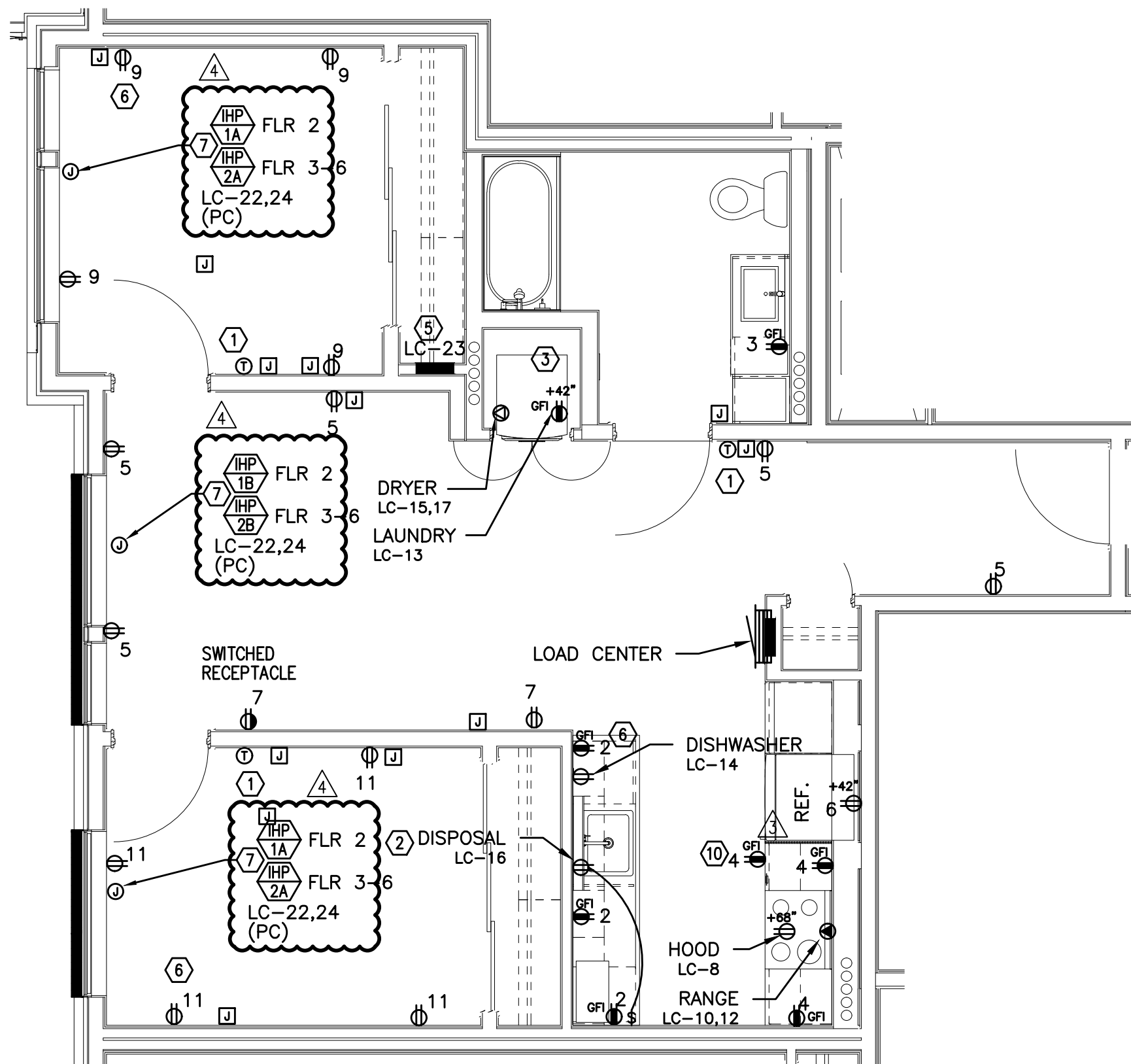
1
E4.12

TYPICAL UNIT TYPE C
1 BED/1 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"



2
E4.12

TYPICAL UNIT TYPE D
2 BED/1 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"



3
E4.12

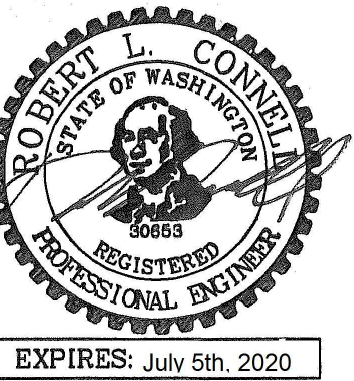
TYPICAL UNIT TYPE D-ADA
2 BED/1 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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- RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
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KEYED NOTES:

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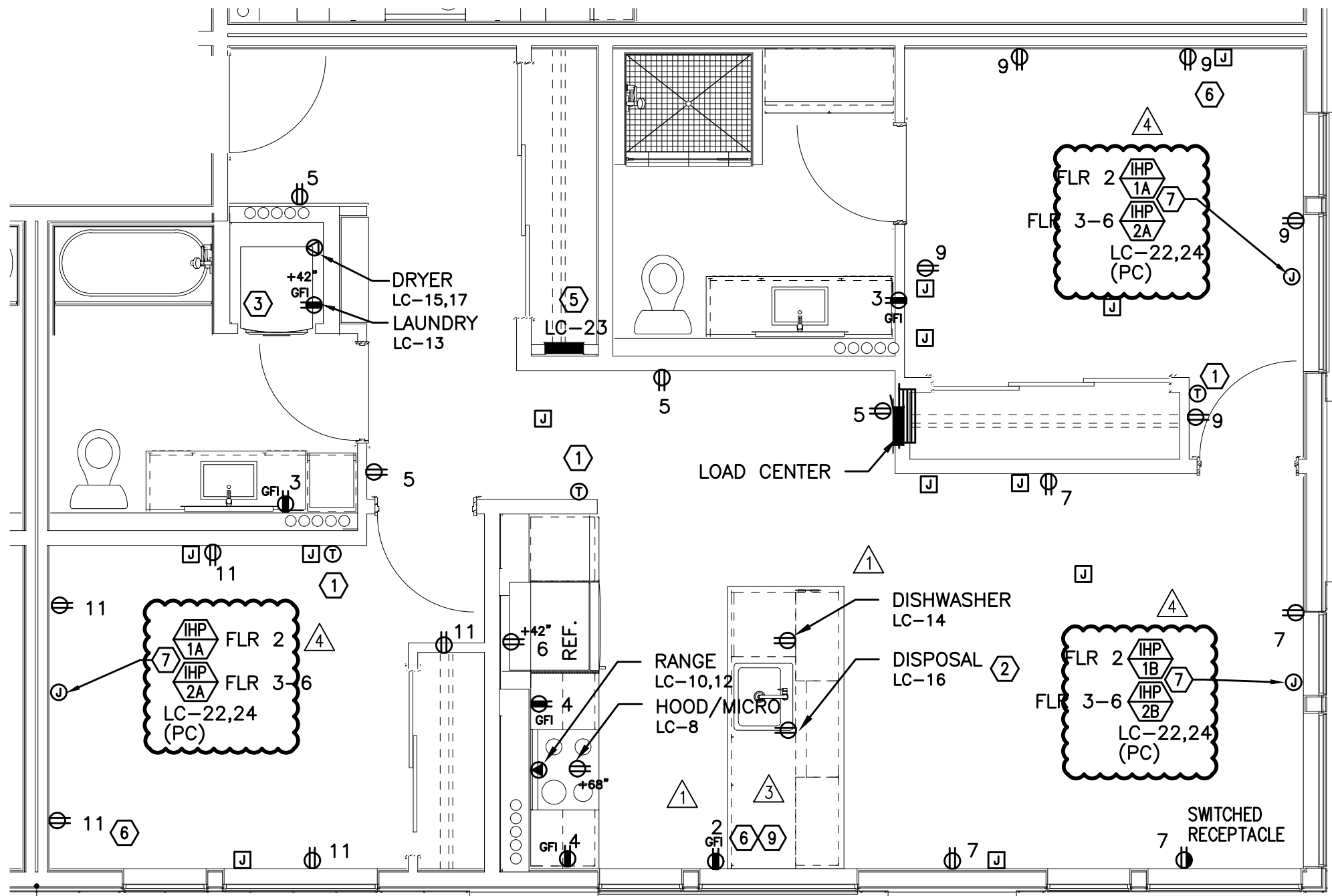
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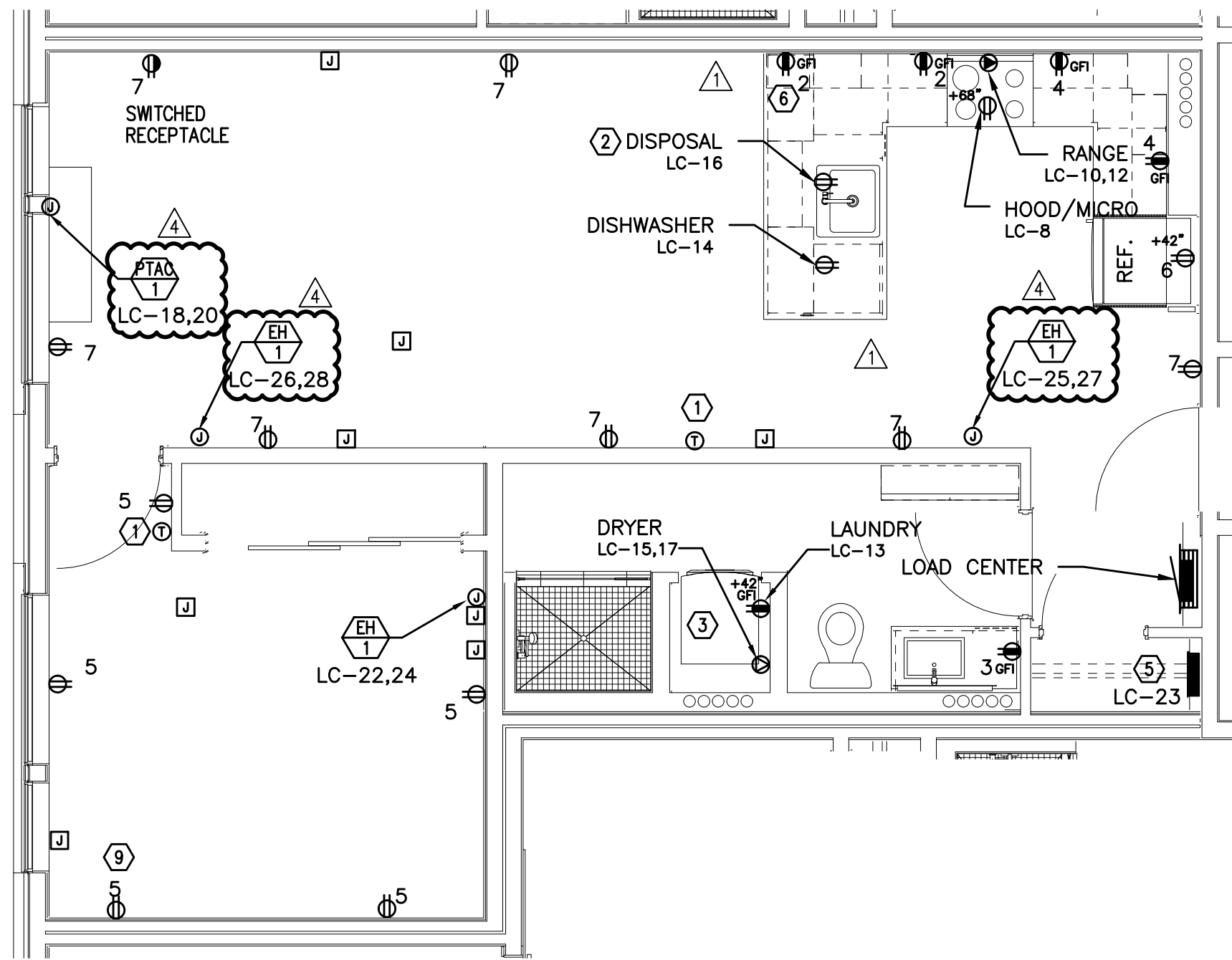
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SHEET:



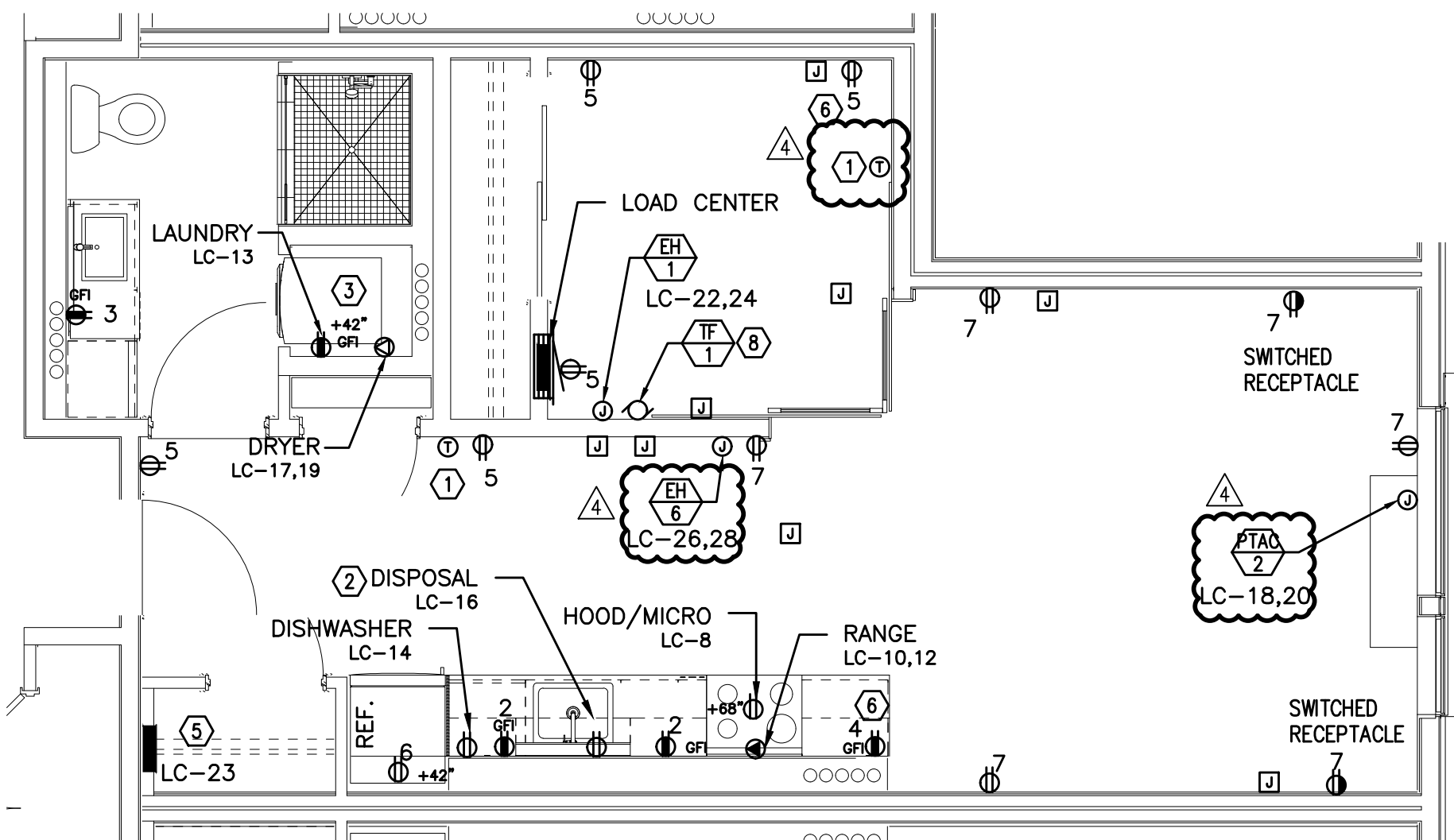
TYPICAL UNIT TYPE E

1 2 BED/2 BATH – POWER PLAN
E4.13 SCALE: 1/4" = 1'-0"



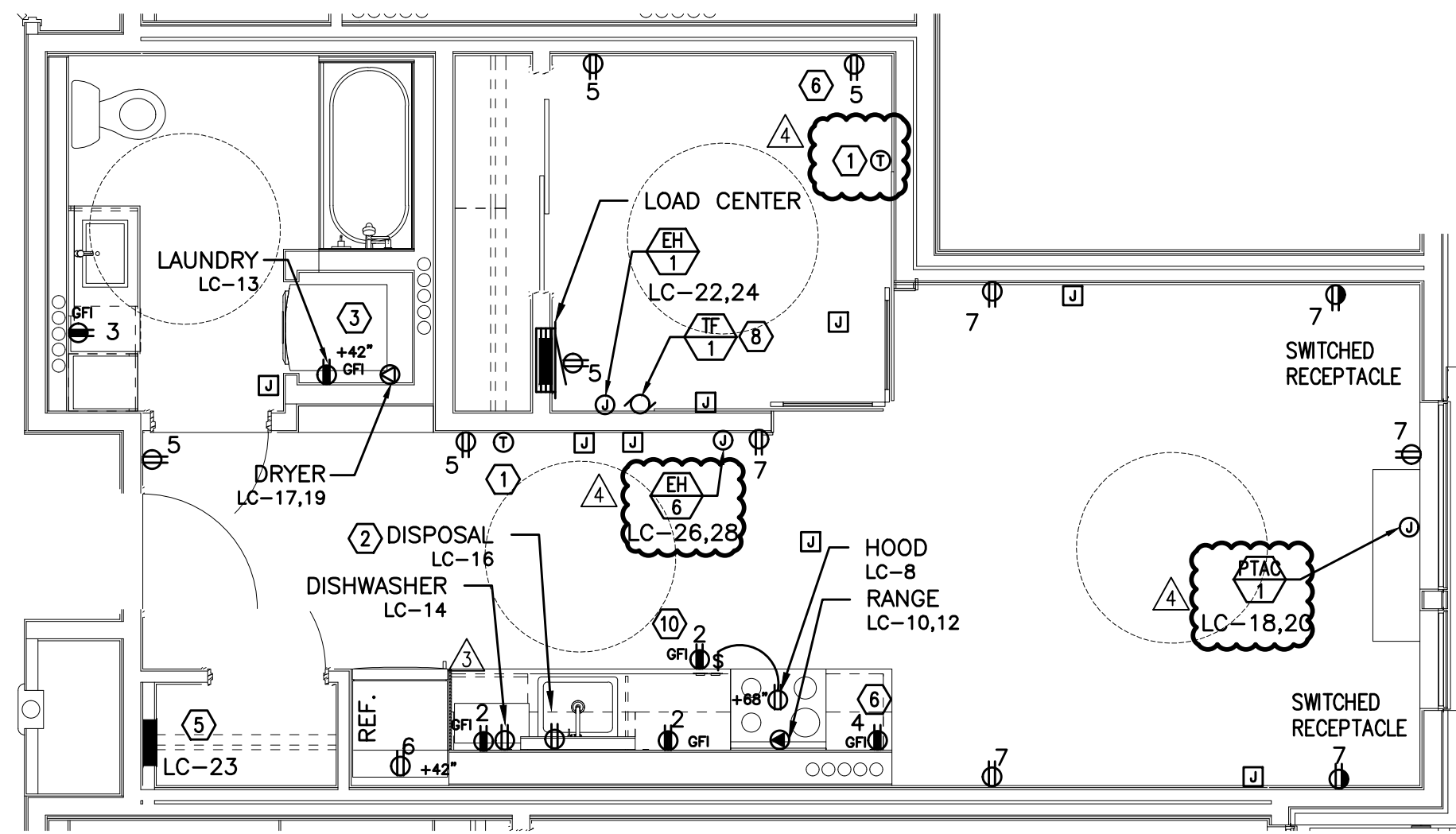
TYPICAL UNIT TYPE F

2 1 BED/1 BATH – POWER PLAN
E4.13 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G

3 0 BED/1 BATH – POWER PLAN
E4.13 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G-ADA

4 0 BED/1 BATH – POWER PLAN
E4.13 SCALE: 1/4" = 1'-0"

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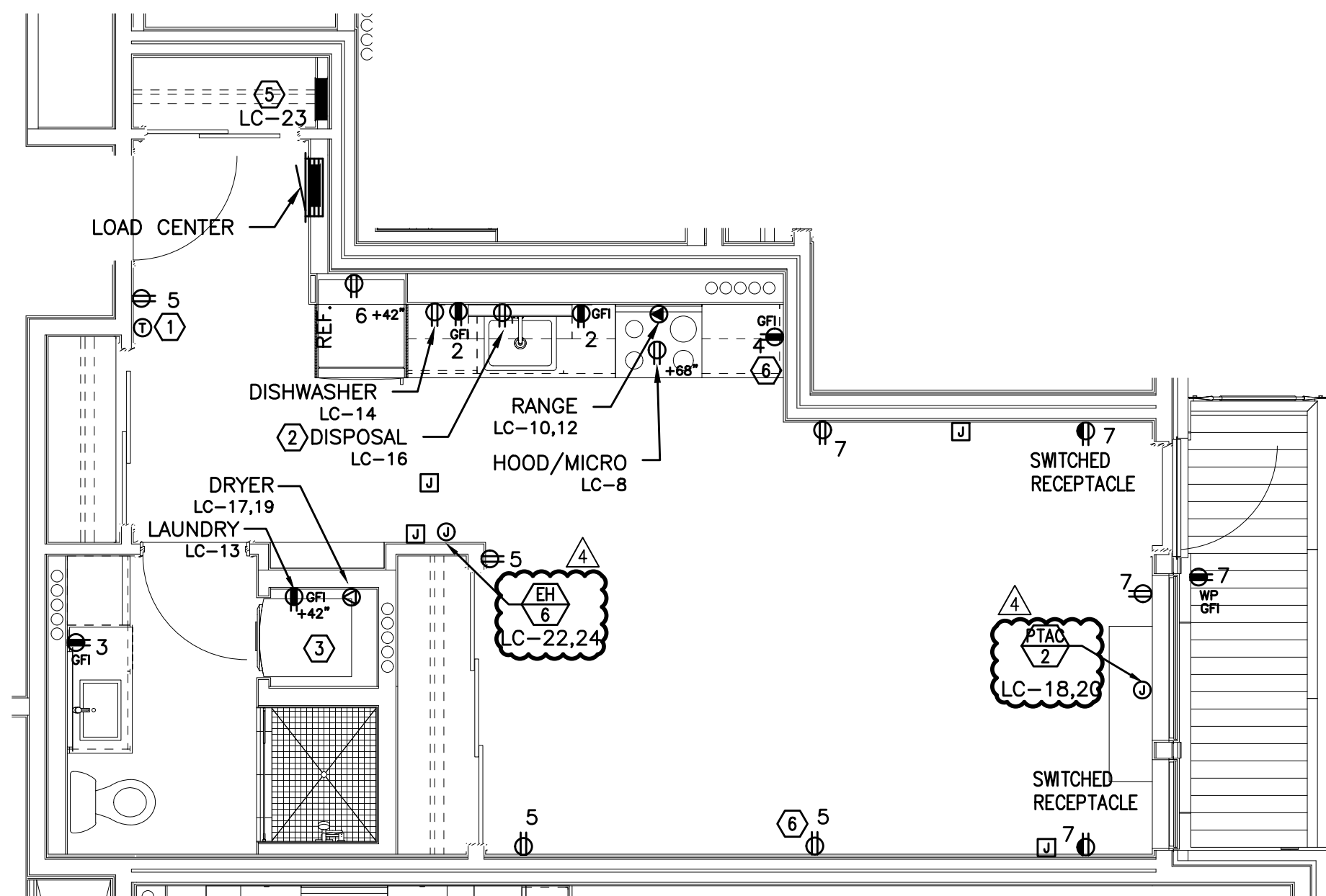
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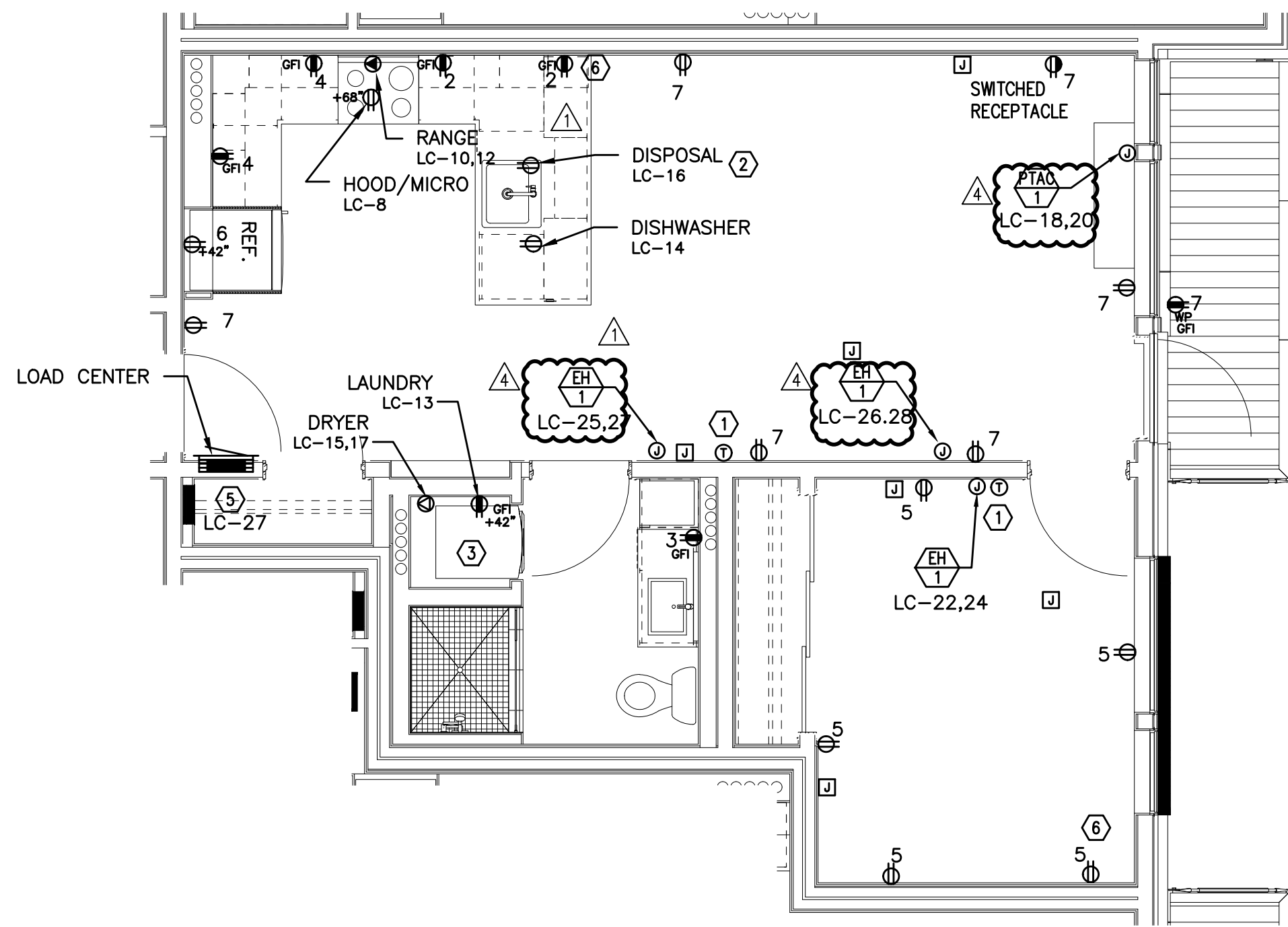
SHEET:

E4.14



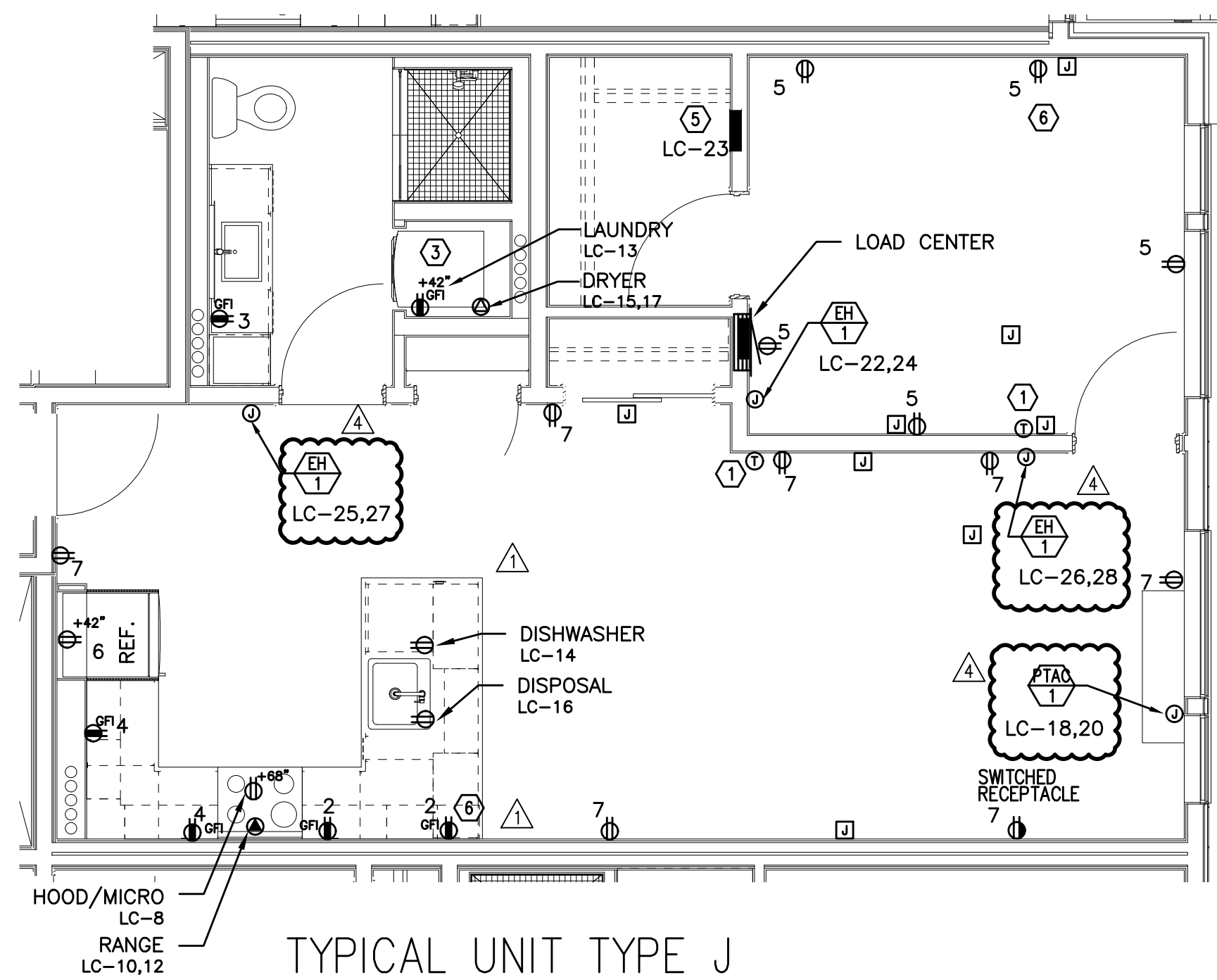
TYPICAL UNIT TYPE H

1 0 BED/2 BATH – POWER PLAN
E4.14 SCALE: 1/4" = 1'-0"



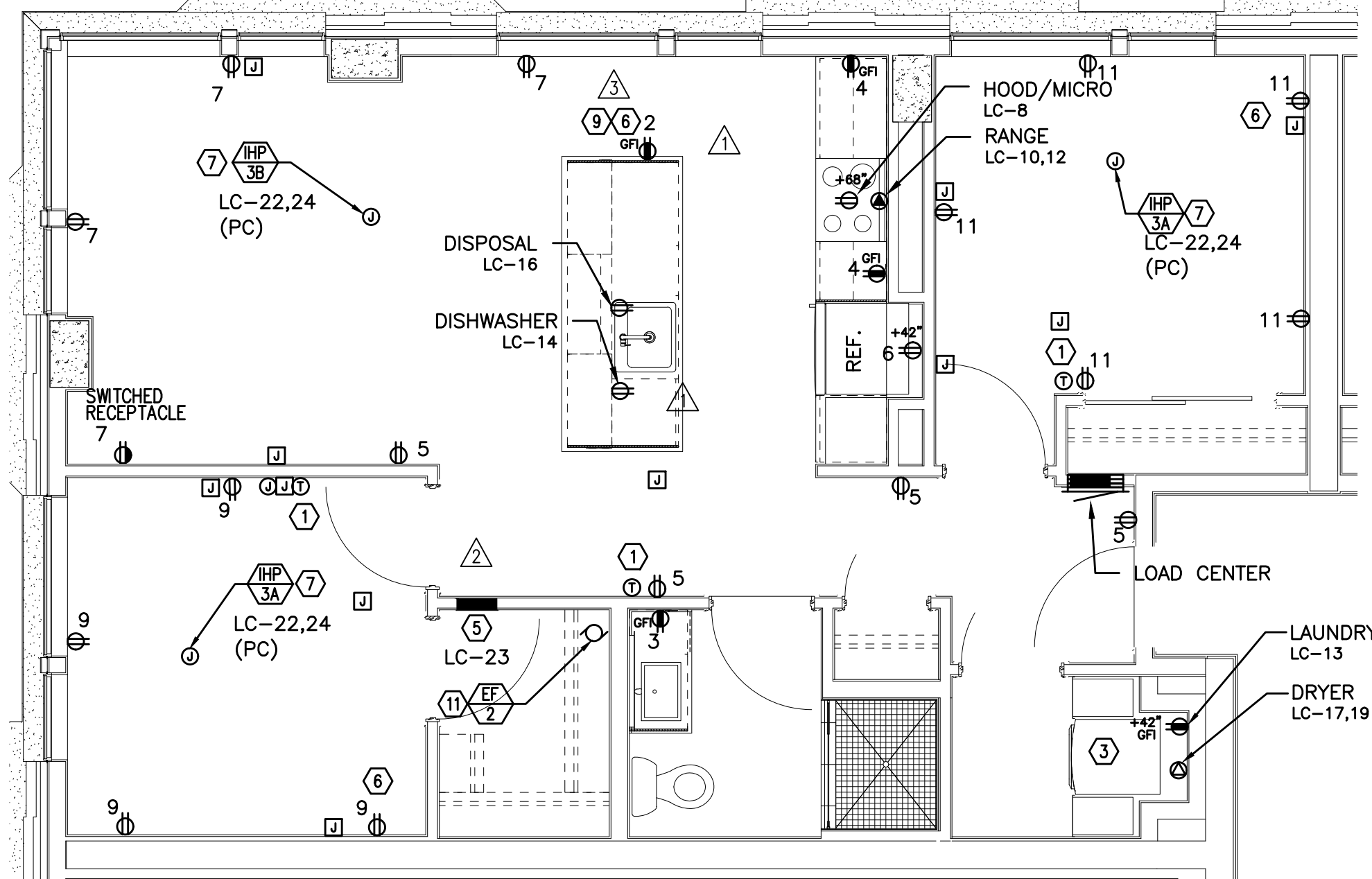
TYPICAL UNIT TYPE I

2 1 BED/1 BATH – POWER PLAN
E4.14 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE J

3 1 BED/1 BATH – POWER PLAN
E4.14 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE K

4 2 BED/1 BATH – POWER PLAN
E4.14 SCALE: 1/4" = 1'-0"

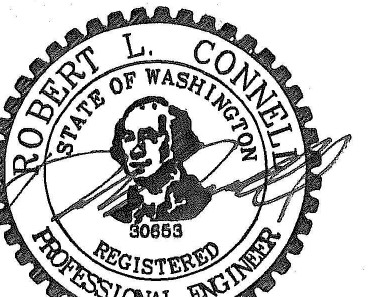
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CONTACT: DENISE TAYLOR



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- STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.
- ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.
- REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
- COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS (□) REFERS TO ROUGH IN BOXES.

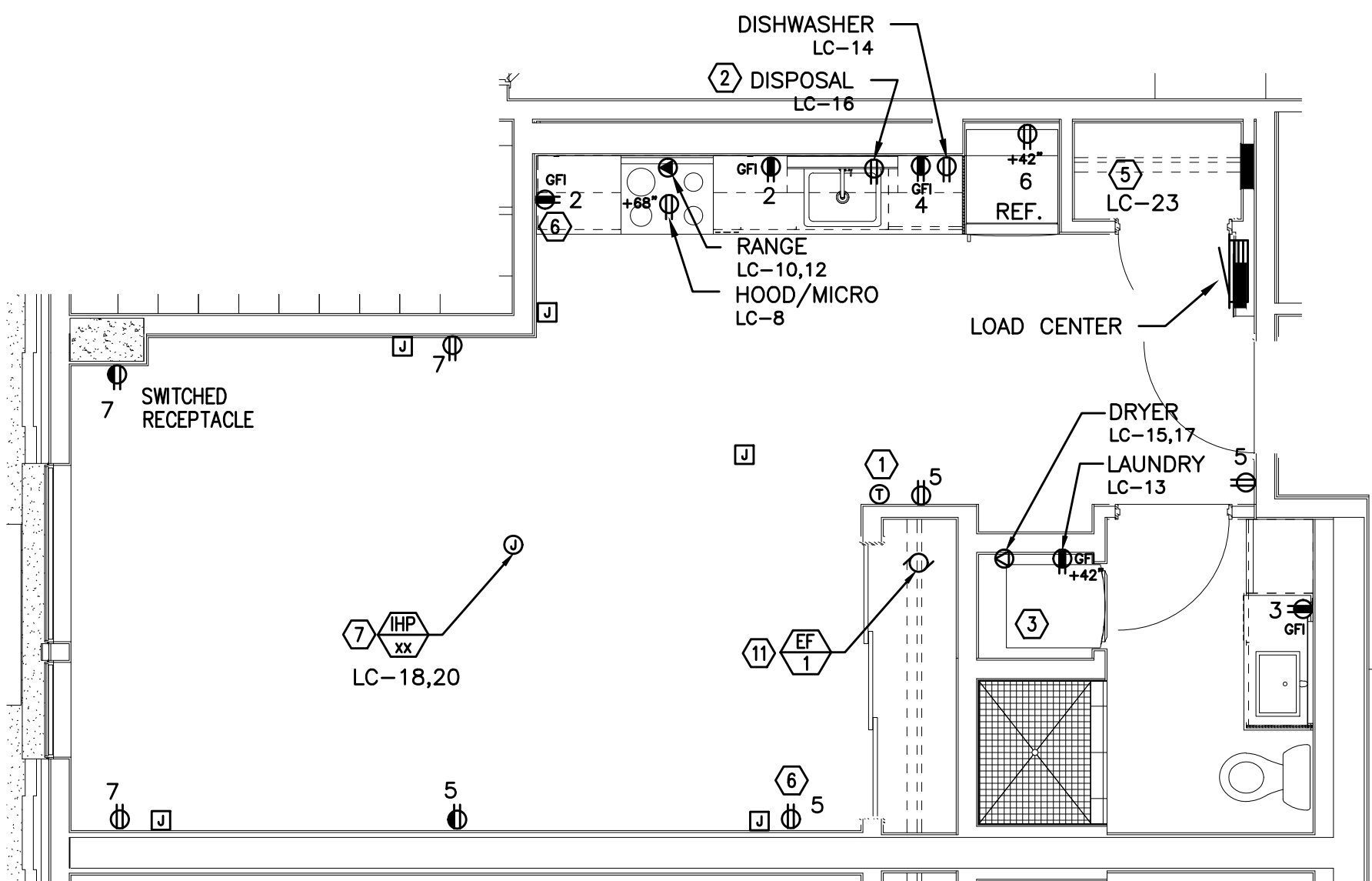
KEYED NOTES:

- PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- △ PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION. DISPOSAL TO BE PROVIDED WITH "SAFEAIRE" SINK DISPOSAL AIR SWITCH, MOUNTED PER ARCHITECT'S DIRECTION. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO ORDERING.
- REFER TO DETAIL 2/E1.17 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR TELECOM SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 44" A.F.F. (MAX) AT KITCHEN ISLAND/PENNINSULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
- INDOOR HEAT PUMP UNIT INTERCONNECTED WITH OUTDOOR UNIT LOCATED ON ROOF. CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL HVAC INSTALLER AND MECHANICAL PLANS FOR EXACT POWER REQUIREMENTS & LOCATION OF EACH UNIT PRIOR TO ROUGH IN.
- COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS, CONTROLS & LOCATION OF THRU-WALL FAN. TIE INTO BEDROOM RECEPTACLE CIRCUIT.
- MOUNT DEVICES HORIZONTALLY, UNDER WINDOW SILL.
- RECEPTACLE MOUNTED IN FACE OF CABINET.
- COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS & LOCATION OF CONTINUOUS OPERATING EXHAUST FAN. TIE INTO LIVING ROOM LIGHTING RECEPTACLE CIRCUIT.

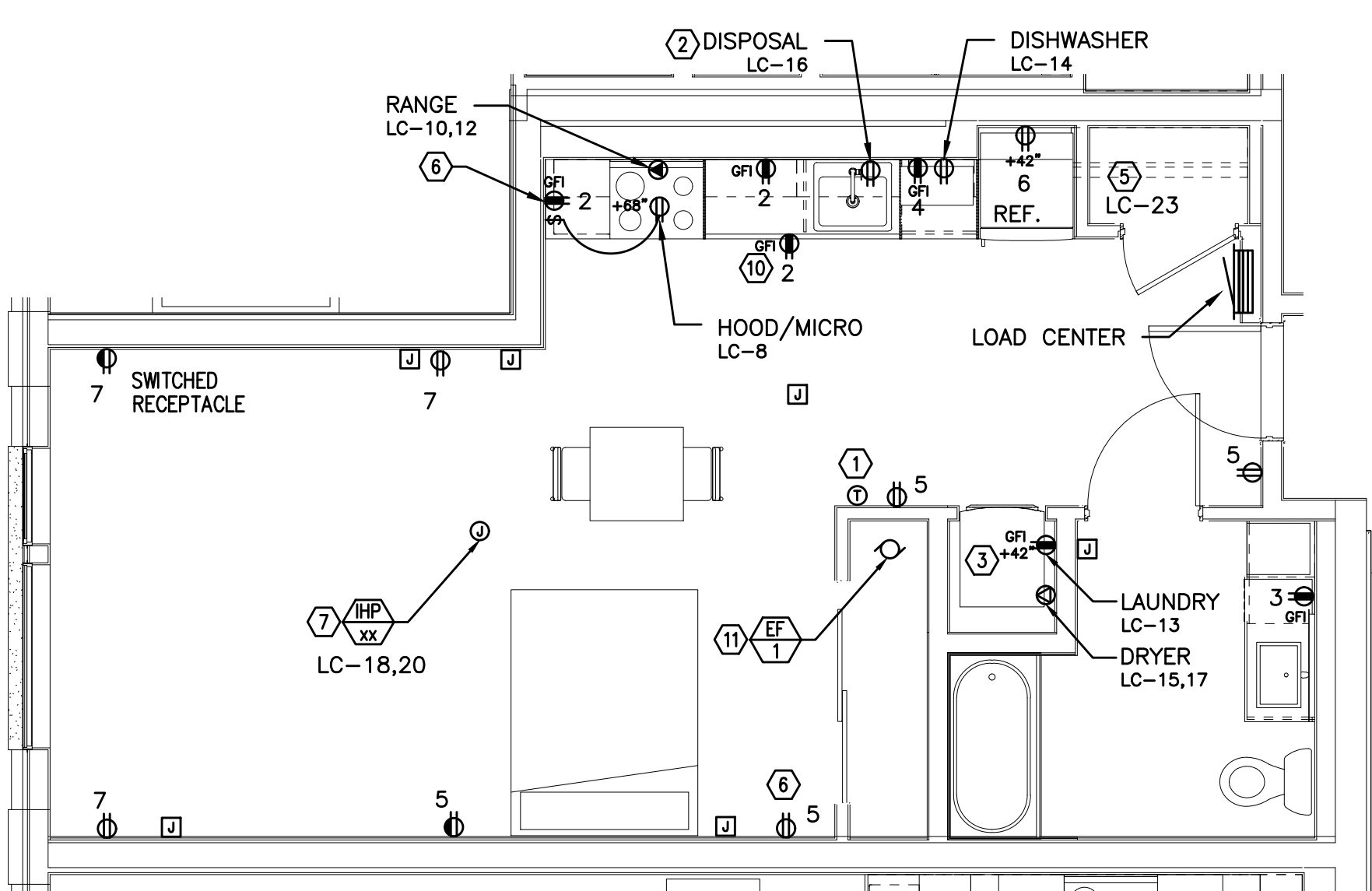
M Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
CONTACT: DENISE TAYLOR

SHEET:

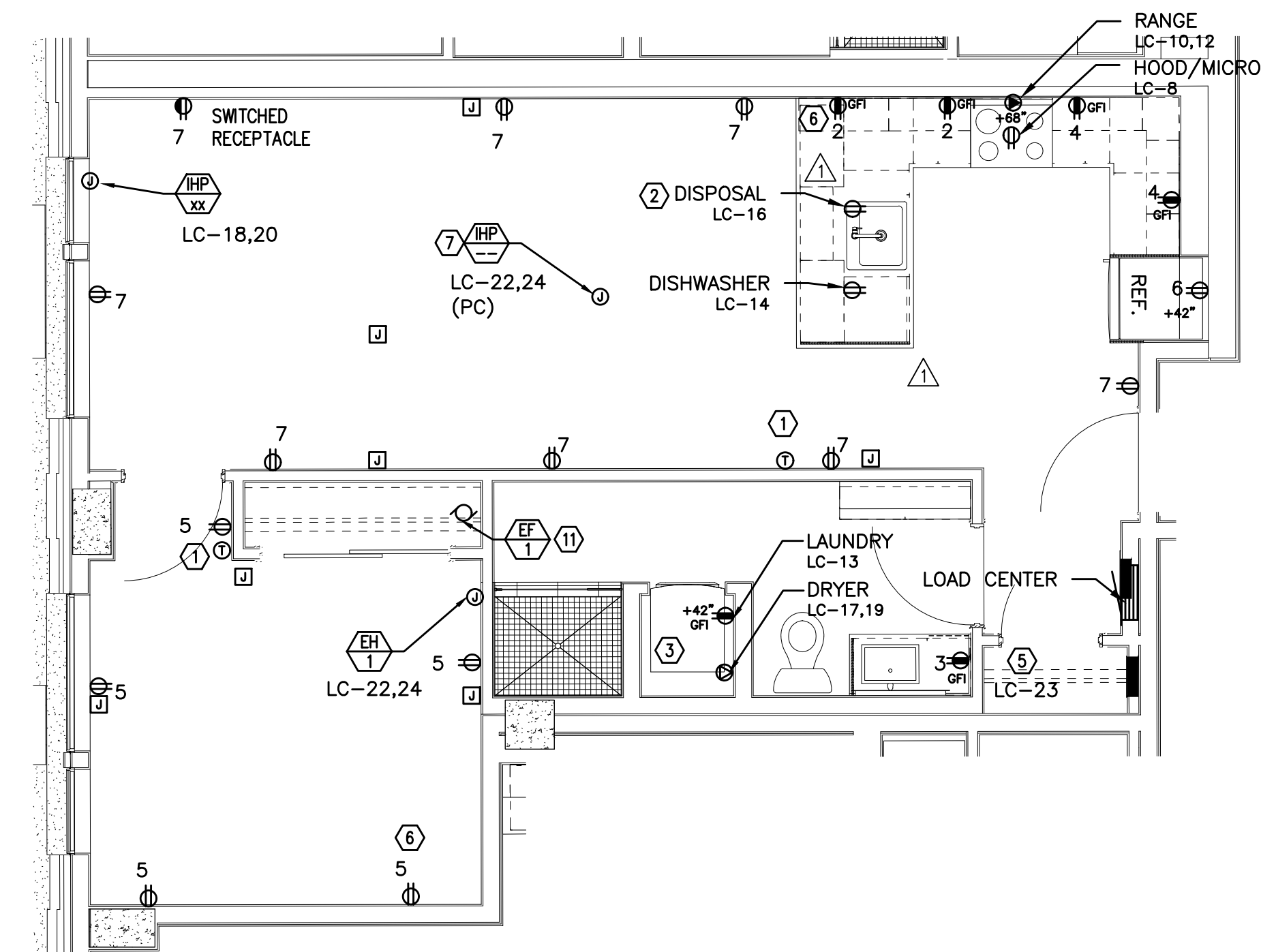
E4.15



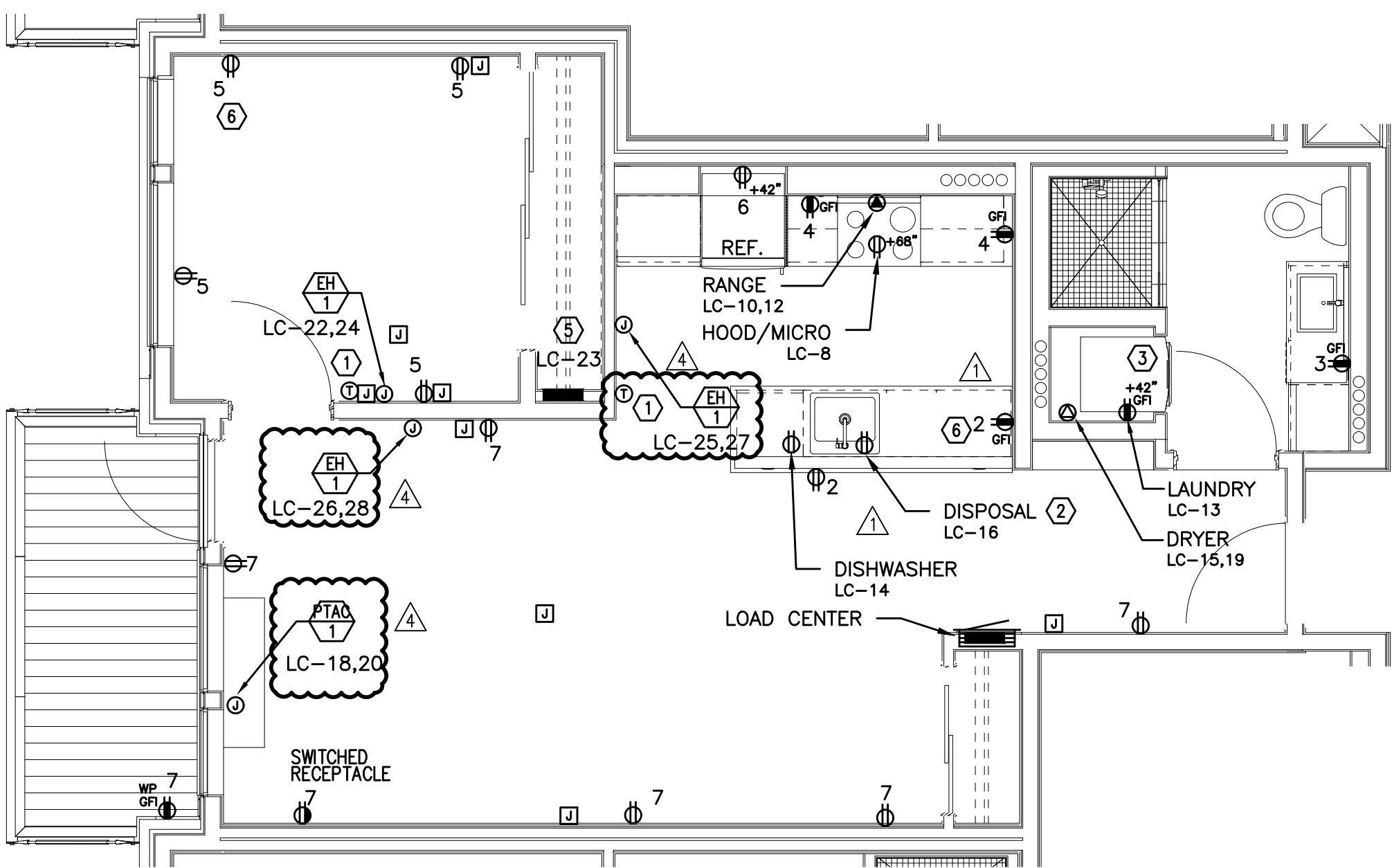
TYPICAL UNIT TYPE L

1 0 BED/1 BATH - POWER PLAN
E4.15 SCALE: 1/4" = 1'-0"

TYPICAL UNIT TYPE L-ADA

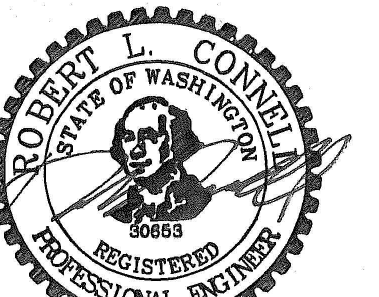
2 0 BED/1 BATH - POWER PLAN
E4.15 SCALE: 1/4" = 1'-0"

TYPICAL UNIT TYPE M

3 1 BED/1 BATH - POWER PLAN
E4.15 SCALE: 1/4" = 1'-0"

TYPICAL UNIT TYPE N

4 1 BED/1 BATH - POWER PLAN
E4.15 SCALE: 1/4" = 1'-0"



EXPIRES: July 6th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

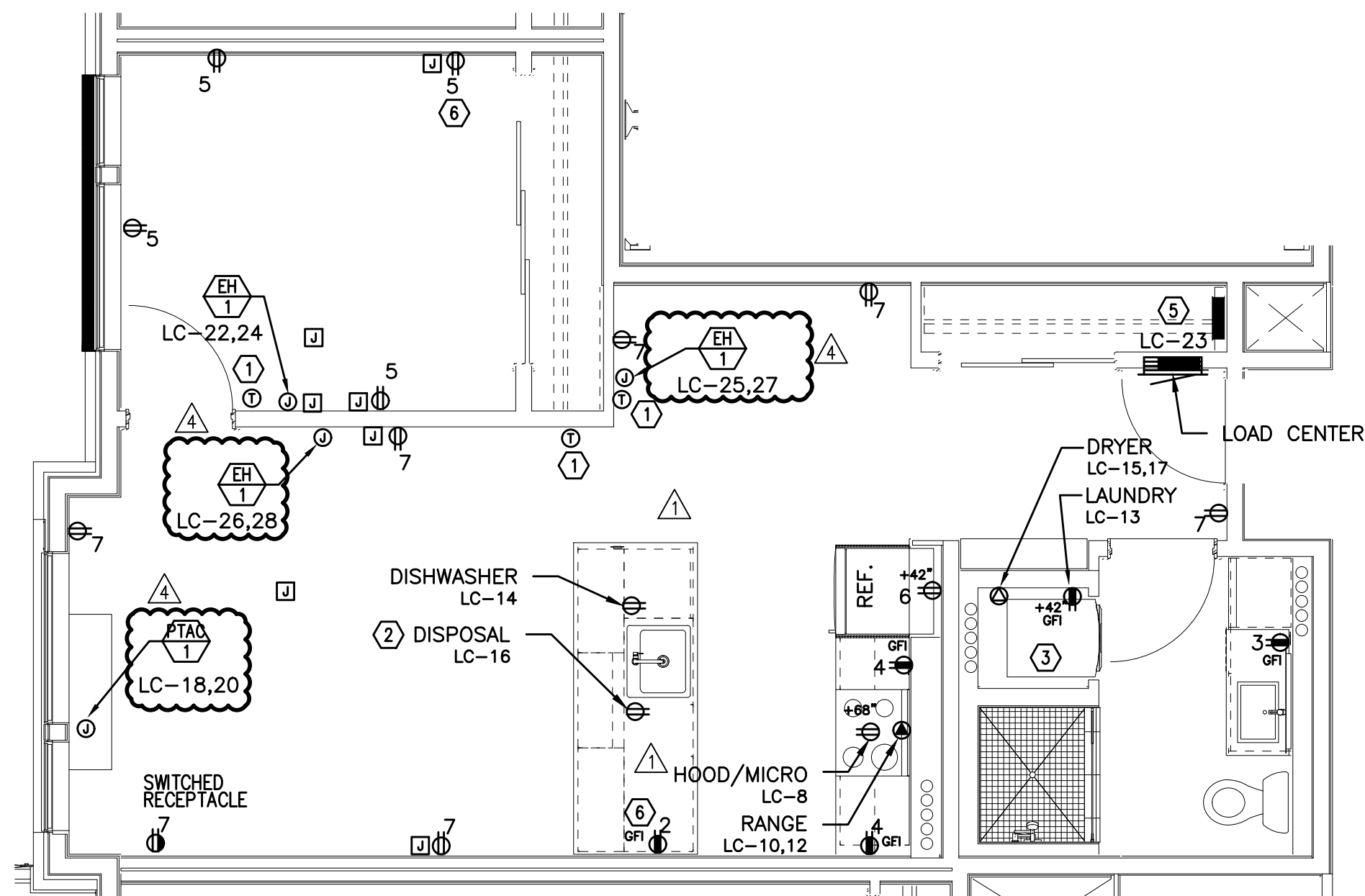
- △ PLAN REVIEW 01.24.2020
- △ PLAN REVIEW 03.13.2020
- △ PLAN REVIEW 04.24.2020
- △ PLAN REVIEW 08.10.2020

GENERAL NOTES:

- A. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.
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- G. COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS (□) REFERS TO ROUGH IN BOXES.

KEYED NOTES:

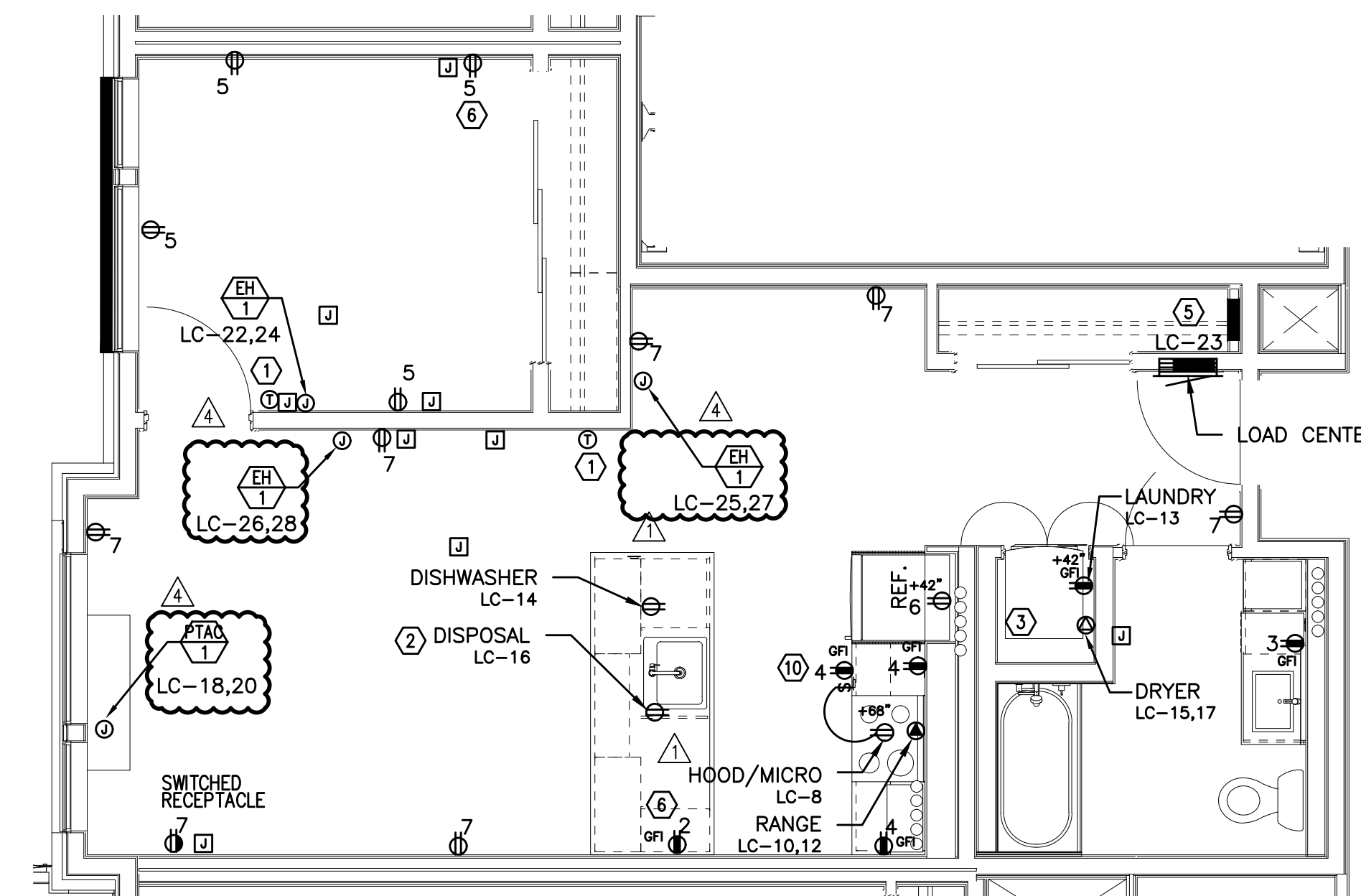
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TYPICAL UNIT TYPE O

1 BED/1 BATH – POWER PLAN

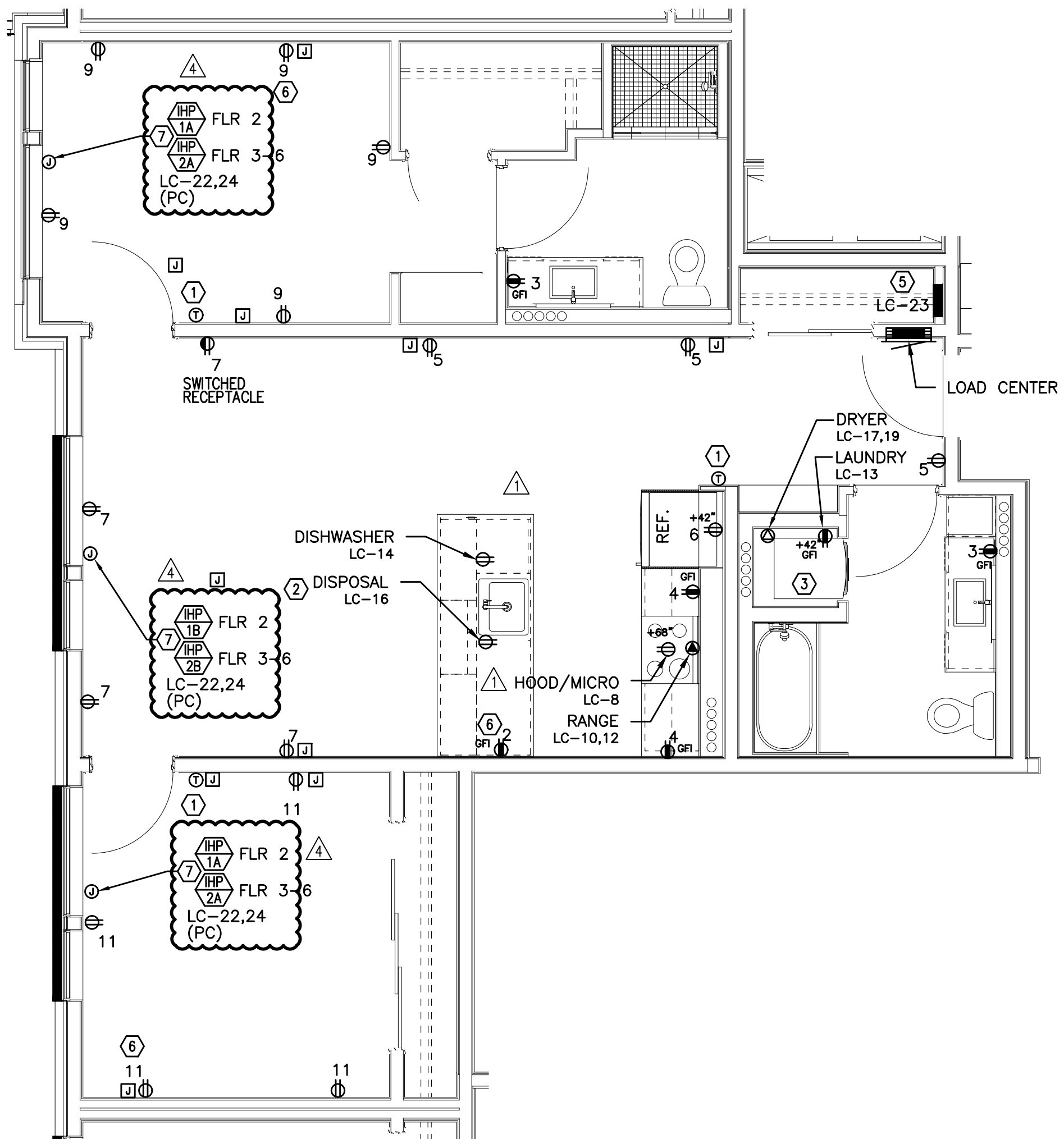
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE O-ADA

1 BED/1 BATH – POWER PLAN

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



TYPICAL UNIT TYPE P

2 BED/2 BATH – POWER PLAN

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