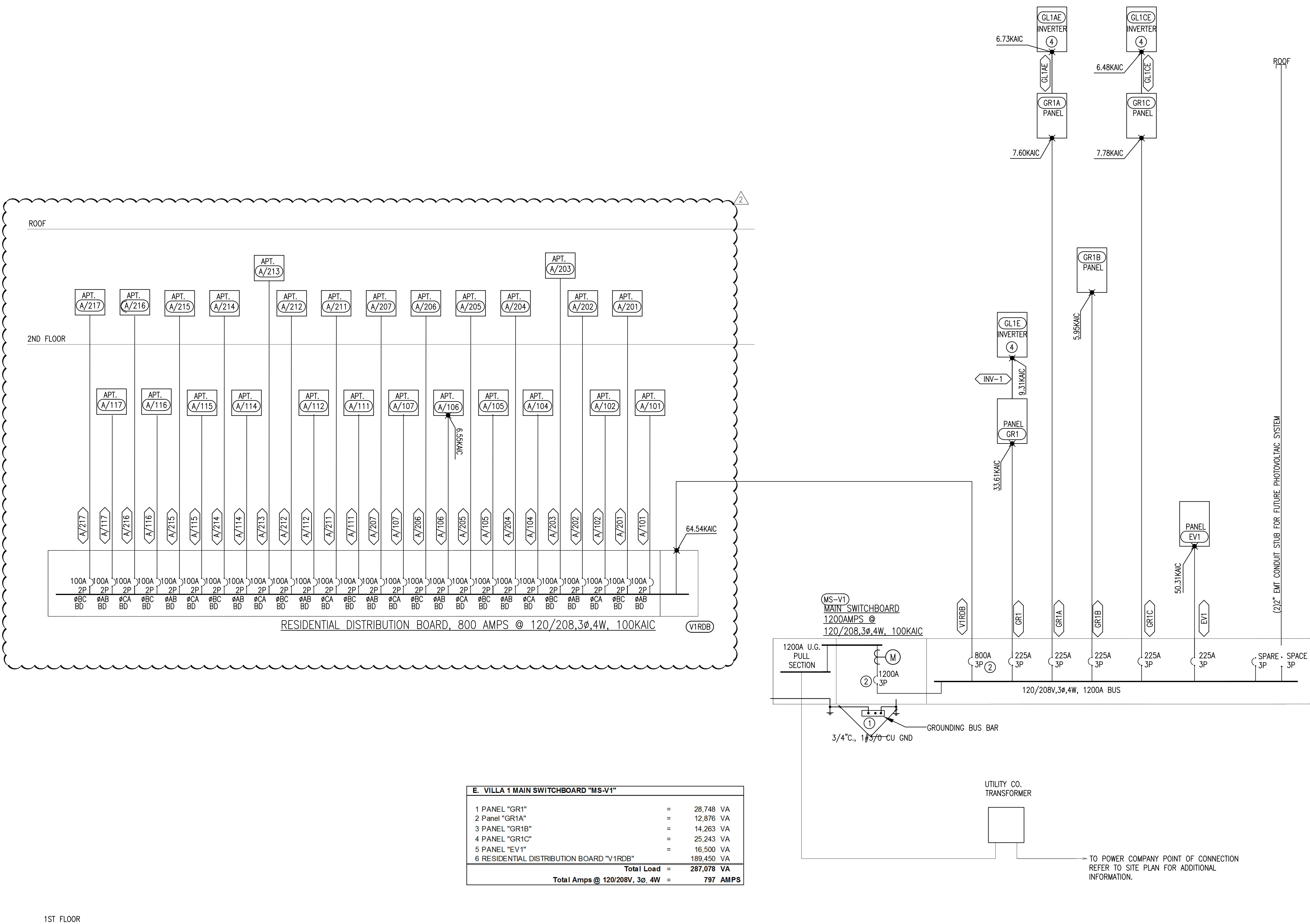


1. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RECESSED LUMINAIRES WITH THE CEILINGS INTO WHICH THEY ARE TO BE INSTALLED, REGARDLESS OF THE MANUFACTURER'S PRODUCT NUMBERS SPECIFIED.
2. RECESSED INCANDESCENT AND COMPACT FLUORESCENT, AND HID LUMINAIRES ARE SPECIFIED TO INCLUDE PROVISION FOR THROUGH-CIRCUIT WIRING.
3. CONTRACTOR MUST VERIFY SUITABILITY OF EACH LUMINAIRE RELATING TO CIRCUIT WIRES AND LOCAL CODE REQUIREMENTS.
4. LUMINAIRES AND CONNECTIONS TO BUILDING CONSTRUCTION MUST CONFORM TO APPLICABLE SEISMIC CODES. PROVIDE ALL SEISMIC HANGER WIRES AND SCREW PER LOCAL AUTHORITY HAVING JURISDICTION.
5. EACH RECESSED COMPACT FLUORESCENT LUMINAIRE IS TO BE SUPPLIED WITH A THERMAL RESETTING DEVICE OR AS OTHERWISE NECESSARY TO MEET THE REQUIREMENTS OF CEC PARAGRAPH 410-130(E) AND BE IC-RATED PER CEC 410.116(A)(2).
6. VERIFY ALL TYPE AND LOCATE ALL CEILING LIGHTING FIXTURES FROM ARCHITECTURAL REFLECTED CEILING PLANS.
7. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE AS REQUIRED AND AS NECESSARY TO INSURE PROPER INSTALLATION OF EACH LIGHT FIXTURE AS TO THEIR RESPECTIVE CEILING CONDITION, PRIOR TO ORDERING AND SHIPMENT OF FIXTURE. CONTRACTOR SHALL COORDINATE AND VERIFY EXACT QUANTITY REQUIRED FOR INSTALLATION AT SITE.
8. WHERE LIGHTS ARE WALL MOUNTED IN FIRE-RATED CORRIDORS, CONTRACTOR SHALL PROVIDE "3M" FIRE PUTTY PAD AROUND OUTLET BOX TO MAINTAIN FIRE RATING OF WALL ASSEMBLY.
9. WHERE RECESSED LIGHT FIXTURE ARE INSTALLED IN FIRE-RATED CORRIDORS, CONTRACTOR SHALL PROVIDE FIRE RATED GYPOBOARDS BOX ENCLOSURE OR E.Z. FIRE BARRIER AROUND FIXTURE TO MAINTAIN FIRE RATING OF CORRIDOR ASSEMBLY.
10. PRIOR TO INSTALLATION OF LANDSCAPE LIGHT FIXTURES, UNDERGROUND CONDUIT RACEWAY, ETC.; CONTRACTOR SHALL VERIFY EXACT LOCATION AND FINAL PLACEMENT OF EACH FIXTURES WITH LANDSCAPE ARCHITECT. CONTRACTOR SHALL INSTALL ALL LANDSCAPE LIGHTING PER MANUFACTURER'S RECOMMENDATION.
11. ALL LUMINAIRES SHALL BE HIGH EFFICACY AND COMPLIANCE WITH ENERGY CODE.
12. ALL FLUORESCENT FIXTURE LAMPS SHALL BE 3500°K.
13. RECESSED LUMINAIRES IN INSULATED CEILING SHALL BE TESTED AND LISTED FOR ZERO CLEARANCE INSULATION COVER (IC) AND AIR-TIGHT (AT) BY A RECOGNIZED TESTING LABORATORY.
14. REFERENCE TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL LIGHT FIXTURES.
15. CEILING FAN SHALL BE ENERGY STAR RATED.
16. UNIT/RESIDENTIAL LIGHTING FIXTURE SHALL BE ENERGY STAR.
17. ALL RECESSED LIGHT FIXTURE SHALL BE ICAT LABELED.

FILE REF.



GENERAL NOTES:

- ALL CONDUIT SIZES AND CONDUCTOR AMPACITIES ARE BASED ON "THW" OR "XHHW" TYPE COPPER UNLESS NOTED OTHERWISE (U.N.O).
- THE MINIMUM INTERRUPTING RATING OF 120/208 PANEL BOARDS AND LOAD CENTERS (CIRCUIT BREAKERS) SHALL BE 22,000 AIC OR AS INDICATED ON PLAN. THE AVAILABLE FAULT CURRENT AT ALL UNIT PANELBOARDS MAY NOT BE LESS THAN THIS VALUE FOR THE VOLTAGE UNLESS INDICATED OTHERWISE. WHERE HIGHER FAULT CURRENT VALUES ARE AVAILABLE, THE RATINGS OF THESE DEVICES INTENDED TO INTERRUPT THE CURRENT AND THEIR BOARDS SHALL BE INCREASED ACCORDINGLY.
- TERMINAL LUGS SHALL BE PROVIDED TO MATCH THE INSULATION RATING OF THE CONDUCTORS, I.E. 75° RATING AND RATED FOR ALUMINUM/COPPER.
- VOLTAGE DROP PERCENTAGES SHOWN IN THE FEEDER CABLE SCHEDULES ARE BASED ON THE WORST CASE UNLESS OTHERWISE NOTED. THE MAXIMUM FEEDER VOLT DROP SHALL NOT EXCEED 3% AND BRANCH CIRCUITRY VOLT DROP SHALL NOT EXCEED 2% TO THE FURTHEST OUTLET, FOR A TOTAL OF 5% WITHIN THE ENTIRE ELECTRICAL DISTRIBUTION AND BRANCH CIRCUITRY SYSTEM. VOLTAGE DROP SHALL COMPLY WITH 2016 CEC AND LOCAL BUILDING CODE.
- ALL WORKS SHOWN ON THE SINGLE LINE DIAGRAMS ARE NEW.
- ALL DISTRIBUTION BOARDS AND APARTMENT PANELBOARDS ARE BASED ON SIEMENS MANUFACTURER FOR SPACE CONSTRAINT REASON. DISTRIBUTION BOARDS BY OTHER MANUFACTURERS SHALL HAVE THE SAME OR SMALLER PHYSICAL DIMENSIONS.
- WHERE CONDUIT INSTALLATIONS RUN THROUGH FIRE RATED FLOOR OR WALL ASSEMBLIES, THE CONTRACTOR SHALL PATCH BUILDING STRUCTURE AND PROVIDE "3M" FIRE SEAL COMPOUND AT LOCATIONS WHERE CONDUITS PENETRATE THROUGH WALLS AND FLOORS.
- FOR MOTOR RATED FUSED DISCONNECT, REJECTION TYPE FUSES AND FUSE HOLDER SHALL BE PROVIDED IN THIS CONTRACT.
- ALL SWITCHBOARDS, PANELS AND LOAD CENTERS SHALL BE SERIES RATED FOR THE AVAILABLE FAULT CURRENT.
- FEEDER LENGTH SHOWN IS FOR VOLTAGE DROP CALCULATION ONLY AND SHALL NOT BE USED FOR BIDDING PURPOSES.

REFERENCE NOTES:

- PROVIDE 3/4", 1#3/0 CU. GROUND AND CONNECT TO COLD WATER LINE AND 2/0 BARE CU. 20FT IN LENGTH UNDERGROUND. CONNECTION TO THE COLD WATER LINE SHALL BE MADE TO THE INTERIOR IF APPLICABLE AND/OR WITHIN 5 FEET OF WHERE THE MAIN WATER PIPE ENTERS THE BUILDING. (PER NEC ARTICLE 250-50).
- MAIN CIRCUIT BREAKER (ELECTRONIC TYPE) SHALL BE FULLY RATED FOR CONTINUOUS DUTY LOAD. CIRCUIT BREAKER SHALL BE 100% RATED.
- FROM CIRCUIT BREAKER SHUNT TRIP DEVICE CONNECT 1/2", INTERLOCK WITH ELEVATOR MACHINE ROOM AND SHAFT (HEAT DETECTORS) FOR COMPLETE SHUT DOWN (PER ELEVATOR CODE SECTION ANSI STANDARDS 17.1)
- CENTRAL LIGHTING INVERTER MANUFACTURED BY DUAL LITE DLS SERIES. REFER TO PANELBOARD SCHEDULE SHEET FOR DETAILS

PANELBOARDS SERIES RATINGS TABLE
BASED ON SIEMENS EQUIPMENT

SERIES RATING (AMPS)	MAIN BREAKER OR METER MODULE		BRANCH CIRCUIT BREAKER		
	TYPE	MAX. AMPS	TYPE	# OF POLES	AMPS
42,000	QJ2H	225A	QP, BQ, BL	1	15-70
				2	15-125
65,000	HOPP	225A	QP, BQ, BL	1	15-70
				2	15-125
100,000	HJD6-A HJD6-A SHJD6-A	400A	ED4	1	15-70
			ED4, ED6	2,3	15-125
			FD6-A, FXD6-A	2,3	70-250
			JXD6-A, JXD6-A	2,3	200-400
100,000	HND6 HNXD6 SHND6	1200A	FD6-A, FXD6-A	2,3	70-250

- NOTES:
- ALL SERIES RATINGS WITH BR BRANCHES INCLUDE DEVICES WITH RD, GFI, QC, GFCB, AND AFCB SUFFIXES, EXCEPT AS NOTED.
 - USE ONLY THE UL LISTED SHORT CIRCUIT CURRENT RATING MARKED ON THE EQUIPMENT. STANDARD INTERRUPTING CIRCUIT BREAKERS CANNOT BE SUBSTITUTED WHERE HIGH INTERRUPTING CIRCUIT BREAKERS ARE INDICATED.
 - WHERE CIRCUIT BREAKERS ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARK SHALL BE READILY VISIBLE AND STATE: "CAUTION-SERIES RATED SYSTEM _____ AMPS AVAILABLE. IDENTIFIED REPLACEMENT COMPONENT REQUIRED"
- *..... = DENOTES FAULT DUTY AVAILABLE; SEE SINGLE LINE;

ARCHITECT:



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PROJECT:

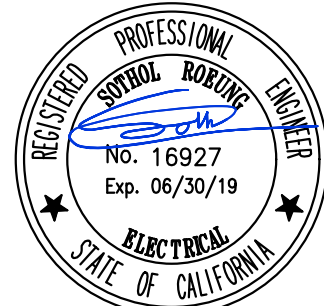
KENSINGTON CAMPUS

AVENUE I & WEST 32ND STREET
WEST LANCASTER, CA 93536

BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE:

STAMP:



REV #



DESCRIPTION

Bulletin 2

DATE

11/16/2018

KEY PLAN

PROJECT NO.

8567

PLOT DATE

11.16.2018

SCALE

AS SHOWN

SHEET TITLE

ELECTRICAL
SINGLE LINE DIAGRAM
VILLA 1

SHEET NO.

E0.03

FILE REF.

RESIDENTIAL UNITS - LOAD SUMMARY "V1RDB" (VILLA 1)									
				NO. OF UNITS		26			
				TOTAL AREA (S.F.)		17,125			
GEN. LTG/REC (per sq.ft) @				3.00	VA	=	51,375	VA	
(2) SMALL APP 1500 (ea unit) @				3,000	VA	=	78,000	VA	
NET LIGHTING LOAD						=	129,375	VA	
MICROE/XHAUST HOOD (ea unit)				1,500	VA	=	39,000	VA	
BATH EXHAUST FAN (ea unit) @				11	VA	=	286	VA	
DISHWASHER (ea unit) @				1,440	VA	=	37,440	VA	
REFRIGERATOR @				1,000	VA	=	26,000	VA	
1/2 HP GARBAGE DISPOSAL (ea unit) @				1,176	VA	=	30,576	VA	
NET APPLIANCES LOAD =							133,302	VA	
AC UNIT				VA	QTY				
HP/FCU				26	=		86,528	VA	
TOTAL AC UNIT =							86,528	VA	
TOTAL COMPUTED LOAD(LIGHTING+APPL+AC) =				349,205	VA				
INCLUDE 8000 VA (electric range) (ea. unit) =				557,205	VA				
DEMAND @ 34% per NEC 220.84 =				189,450	VA				
GRAND TOTAL LOAD =				189,450	VA				
120/208V, 3PHASE, 4WIRES =				526	Amps				

ITEM NO.	CABLE NO	FROM	CONDUIT			CABLE/WIRE				
			SIZE	NO OF SETS	CONDUCT OR MATERIAL	PHASE		SROUND	LENGTH	%VD (FEEDER)
						# OF PHASE WIRE	SIZE (AWG /kcmil)			
SWITCHBOARD "MS-V1"										
1	GL1AE/INV-2	GR1A	1/2"	1	CU	2	12	12	20	0.39%
2	GL1E/INV-1	GR1	1/2"	1	CU	2	12	12	20	0.85%
3	GR1	MS-V1	3"	1	AL	4	300	1	31	0.15%
4	GR1A	MS-V1	3"	1	AL	4	300	1	175	0.41%
5	GR1B	MS-V1	3"	1	AL	4	300	1	260	0.65%
6	V1RDB	MS-V1	4"	3	AL	4	400	4/0	30	0.23%
7	GR1C	MS-V1	3"	1	AL	4	300	1	176	0.75%
8	EV1	MS-V1	3"	1	AL	4	300	1	32	0.09%
9	GL1CE/INV-4	GR1C	1/2"	1	CU	2	12	12	20	0.27%

ITEM NO.	CABLE NO	FROM	NO OF SETS	CONDUCT OR MATERIAL	CABLE/WIRE					
					# OF WIRES	PHASE		BROUND SIZE (AWG)	LENGTH	%VD (FEEDER)
						SIZE (AWG)	SIZE (AWG)			
SWITCHBOARD "V1RDB"										
1	A/101	V1RDB	1	AL	3	2/0	4	219	2.94%	
2	A/201	V1RDB	1	AL	3	3/0	3	229	2.42%	
3	A/102	V1RDB	1	AL	3	2/0	4	195	2.61%	
4	A/202	V1RDB	1	AL	3	2/0	4	205	2.74%	
5	A/203	V1RDB	1	AL	3	1/0	4	153	2.58%	
6	A/104	V1RDB	1	AL	3	1/0	4	143	2.41%	
7	A/204	V1RDB	1	AL	3	1	6	126	2.68%	
8	A/105	V1RDB	1	AL	3	1	6	116	2.46%	
9	A/205	V1RDB	1	AL	3	1	6	101	2.14%	
10	A/106	V1RDB	1	AL	3	1	6	91	1.92%	
11	A/206	V1RDB	1	AL	3	1	6	73	1.54%	
12	A/107	V1RDB	1	AL	3	1	6	63	1.32%	
13	A/207	V1RDB	1	AL	3	3/0	3	245	2.59%	
14	A/111	V1RDB	1	AL	3	3/0	3	235	2.49%	
15	A/211	V1RDB	1	AL	3	2/0	4	222	2.98%	
16	A/112	V1RDB	1	AL	3	2/0	4	212	2.84%	
17	A/212	V1RDB	1	AL	3	2/0	4	198	2.65%	
18	A/213	V1RDB	1	AL	3	1/0	4	170	2.88%	
19	A/114	V1RDB	1	AL	3	1/0	4	160	2.70%	
20	A/214	V1RDB	1	AL	3	1/0	4	144	2.43%	
21	A/115	V1RDB	1	AL	3	1	6	134	2.86%	
22	A/215	V1RDB	1	AL	3	1	6	118	2.51%	
23	A/116	V1RDB	1	AL	3	1	6	108	2.29%	
24	A/216	V1RDB	1	AL	3	1	6	90	1.90%	
25	A/117	V1RDB	1	AL	3	1	6	80	1.69%	
26	A/217	V1RDB	1	AL	3	3/0	3	280	2.98%	

FEEDER SCHEDULE TABLE				
FEEDER LENGTH (FT)	0-139	140-175	176-220	221-280
FEEDER SIZE (AL)	1	1/0	2/0	3/0

- NOTE:
- USE CONDUIT (2" PVC SCH-40) AND CABLES FOR 1ST AND 2ND FLOOR FEEDERS.
 - USE SER CABLES FOR 3RD FLOOR FEEDERS.

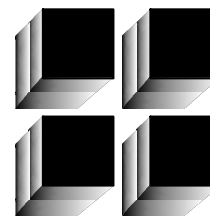
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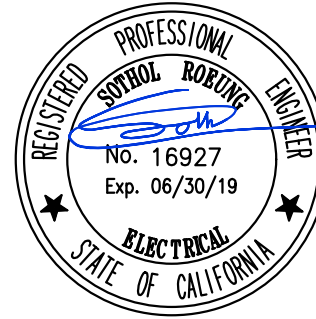
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45260 32ND ST W
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PHASE:

STAMP:



REV #	DESCRIPTION	DATE
2	Bulletin 2	11/16/2018

KEY PLAN

PROJECT NO.

8567

PLOT DATE

11.16.2018

SCALE

AS SHOWN

SHEET TITLE

**ELECTRICAL LOAD
CALCULATIONS
& FEEDER
SCHEDULES**


SHEET NO.

E0.03A

FILE REF.

REMARKS	MISCLOCK TOTAL VOLT LEVEL	INVERTER PANEL															100 A. BUSSING LOCATION: MTG.	REMARKS			
		120 VOLTS										MAIN BKR: 20A,1P									
		1 PHASE										LOCATION: EE RM VILLA1									
		3 WIRE										AREA:					ENTER CAB'T. AT: BREAKER TYPE: "BD"				
LOCATION		VOLT AMPS	LTG/ LCL	REC.	MIS	CIR	BKR		BKR	CIR	MIS	REC.	LTG/ LCL	VOLT AMPS	LOCATION						
-	-	EXTERIOR EM LIGHTS	320	16	-	1	15/1	⊕	15/1	2	-	-	8	216	LAUNDRY/BIKE/ENTRY EM						
-	-	COURTYARD EM LTG	252	7	-	3	15/1	⊕	15/1	4	-	-	0	SPARE	-						
-	-	EXTERIOR EM LIGHTS	200	10	-	5	15/1	⊕	15/1	6	-	-	0	SPARE	-						
-	-	HANDRAIL EM LIGHTS	276	4	-	7	15/1	⊕	15/1	8	-	-	0	SPARE	-						
-	-	SPARE	-	-	-	9	15/1	⊕	15/1	10	-	-	0	SPARE	-						
ØØ = 1264																					
TOTAL CONNECTED LOAD : 1264 VA OR 10.53 AMPS @ 120 VOLTS 1 Ø																					
LCL : 1264 VOLT AMPS x 125% = 1580 VOLT AMPS																					
FDL : 1580 VOLT AMPS OR 13.17 AMPS																					
DUALITE DLS SERIES																					
MODEL: DLS-2100-120_A-15-10																					

ARCHITECT:



AHMON RCHITECTS

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KEY PLAN

REMARKS	MEG OHM CONTROL LEVEL	INVERTER PANEL PANEL: "GL1AE"***																100 A. BUSSING SURFACE MTG.	REMARKS
		LOCATION: OFFICE STOR VILLA1																	
		AREA:																	
		ENTER CAB'T. AT: BREAKER TYPE: "BD"																	
LOCATION		VOLT AMPS 0B	LTG/ LCL	REC	MIS	CIR	BKR		BKR	CIR	MIS	REC	LTG/ LCL	VOLT AMPS 0B	LOCATION				
-	-	CORRIDOR EM LGT	216	12	-	-	1	15/1	✕	15/1	2	-	-	0		SPARE	-	-	
-	-	OFFICE EM LGT	252	14	-	-	3	15/1	✕	15/1	4	-	-	0		SPARE	-	-	
-	-	CORRIDOR EM LGT	108	6	-	-	5	15/1	✕	15/1	6	-	-	0		SPARE	-	-	
-	-	SPARE	0	-	-	-	7	15/1	✕	15/1	8	-	-	0		SPARE	-	-	
-	-	SPARE	0	-	-	-	9	15/1	✕	15/1	10	-	-	0		SPARE	-	-	
0B = 576																			
TOTAL CONNECTED LOAD : 576 VA OR 4.80 AMPS @ 120 VOLTS 1 Ø																			
LCL : 576 VOLT AMPS x 125% = 720 VOLT AMPS																			
FDL : 720 VOLT AMPS OR 6.00 AMPS																			
DUALITE DLS SERIES																			
MODEL: DLS-1500-120_-A-15-10																			


REMARKS	TIME/CLOCK	CONTROL LEVEL	120/208 VOLTS		PANEL: "EV1"										MAIN BKR: M.L.O.										42 KAIC		TIME/CLOCK	CONTROL LEVEL	REMARKS
			3 PHASE		LOCATION: MAIN EE ROOM VILLA1										ENTER CAB'T. AT:										125 A. BUSSING				
			4 WIRE		FEEDER:																				SURFACE. MTG.				
			LOCATION		VOLT AMPS		LTG/LCL	REC	MS	CIR	BKR			BKR	CIR	MS	REC	LTG/LCL	VOLT AMPS		LOCATION								
				ØA	ØB	ØC													ØA	ØB	ØC								
-	-	-	EVCS	3300			1	-	-	1	40	1	2	-	2	-	-	0				SPACE	-	-	-				
-	-	-	- W/ CRT #1		3300		1	-	-	3	2	2	1	-	4	-	-	0		0		SPACE	-	-	-				
-	-	-	EVCS			3300	1	-	-	5	40	1	2	-	6	-	-	0		0		SPACE	-	-	-				
-	-	-	- W/ CRT #5		3300		1	-	-	7	2	2	1	-	8	-	-	0		0		SPACE	-	-	-				
-	-	-	SPACE		0			-	-	9	-	-	-	-	10	-	-					SPACE	-	-	-				
-	-	-	SPACE		0	0		-	-	11	-	-	-	-	12	-	-			0	0	SPACE	-	-	-				
-	-	-	SPACE		0			-	-	13	-	-	-	-	14	-	-	0		0		SPACE	-	-	-				
-	-	-	SPACE		0			-	-	15	-	-	-	-	16	-	-	0		0		SPACE	-	-	-				
				ØA = 6600			ØB = 3300										ØC = 3300												
				TOTAL CONNECTED LOAD :		13200	VA	OR	36.64 AMPS		Ø	208	VOLTS	-	3	Ø													
				LCL :		13200	VOLT AMPS	x	125%	=	16500	VOLT AMPS																	
				FDL :		16500	VOLT AMPS	OR	45.80	AMPS																			

GR1	GL1E
GR1A	GL1AE
GR1B	EV1

1

E0.04

FILE REF.

STATE OF CALIFORNIA INDOOR LIGHTING – TIGHTENING CONTROLS CEC-NRCC-LTI-02-E (Revised 05/15) CERTIFICATE OF COMPLIANCE Indoor Lighting – Tightening Controls Project Name: _____ Date Prepared: 4/11/16/2018															 CALIFORNIA ENERGY COMMISSION NRCC-LTI-02-E (Page 2 of 3)			
A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following: <input checked="" type="checkbox"/> CONDITIONED SPACES <input type="checkbox"/> UNCONDITIONED SPACES																		
MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST																		
Standards Complying With ¹ (✓ all that apply, or enter 'E' if Exempted)															PAF Credit Calculation		✓ Acceptance Test Required	Field Inspector
Lighting Control Schedule															PAF (K x L)	Credit (K x L)		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O				
Location in Building	Type/ Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc.)	# of Units	\$130.1(a)	\$130.0(b)	\$130.1(d)	\$130.1(b)	\$130.1(e)	\$140.6(a)(2)	\$140.6(a)									
Office 1	Occ Sensor - <= 250 sqft						✓		75	0.30	23		✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Office 2	Occ Sensor - <= 250 sqft						✓		90	0.30	27		✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
														<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
														<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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														<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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IF MULTIPLE PAGES ARE USED, ENTER SUM TOTAL OF Control Credit for all pages HERE (Sum of all Column M):										50								
												Enter Control Credit total into NRCC-LTI-01-E, Page 1.						
1. \$130.1(a) = Manual area controls; \$130.0(b) = Multi Level; \$130.1(c) = Auto Shut-Off; \$130.1(d) = Mandatory Daylight; \$130.1(e) = Demand Responsive; \$140.6(a) = Additional lighting controls installed to earn a PAF; \$140.6(a) = Prescriptive Side-Exit Daylight Controls. 2. Check Table 140.6-A for correct Factor. PAFs shall not be traded between conditioned and unconditioned spaces. As a condition to earn a PAF, an Installation Certificate is also required to be filled out, signed, and submitted.																		

STATE OF CALIFORNIA
INDOOR LIGHTING - LIGHTING CONTROLS
CEC-NRCC-LTI-02-E (Revised 06/15)
CERTIFICATE OF COMPLIANCE
 Indoor Lighting - Lighting Controls
Project Name: _____
 Kensington Campus

CALIFORNIA ENERGY COMMISSION
NRCC-LTI-02-E
(Page 2 of 3)


Date Prepared: 11/16/2018

A separate document must be filled out for Conditioned and Unconditioned Spaces. This page is used only for the following:

☐ **CONDITIONED SPACES**
 ☒ **UNCONDITIONED SPACES**

MANDATORY AND PRESCRIPTIVE INDOOR LIGHTING CONTROL SCHEDULE, PAF CALCULATION, and FIELD INSPECTION CHECKLIST

Standards Complying With: ¹ (✓ all that apply, or enter "E" if Exempted)													PAF Credit Calculation *					✓ Acceptance Test Required	Field Inspector
Lighting Control Schedule													Waste of Controlled Lighting	PAF	Credit (6-13)	Control Credit (14-15)	M		
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O					
Location in Building	Type/Description of Lighting Control (i.e.: occupancy sensor, automatic time switch, dimmer, automatic daylight, etc....)	# of Units	(\$30.14a)	(\$30.0b)	(\$30.14c)	(\$30.14b)	(\$30.14e)	(\$30.14d)	(\$30.60j2)	(\$30.60j)						Pass	Fail		
															<input type="checkbox"/>	<input type="checkbox"/>			
															<input type="checkbox"/>	<input type="checkbox"/>			
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															<input type="checkbox"/>	<input type="checkbox"/>			

STATE OF CALIFORNIA INDOOR LIGHTING – LIGHTING CONTROLS CEC-NRCC-171-02-E (Revised 05/15)		 CALIFORNIA ENERGY COMMISSION
CERTIFICATE OF COMPLIANCE Indoor Lighting – Lighting Controls Project Name: Kershington Campus		NRCC-171-02-E (Page 3 of 3)
		Date Prepared: 11/16/2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT 1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: S. Y. Lee Associates Company: S. Y. Lee Associates, Inc. Address: 216 South Jackson Street City/State/Zip: Glendale, CA 91205	Documentation Author Signature: _____ Signature Date: 11/16/2018 CEA Certification Identification # <u>160927-174</u> Phone: (818) 242-2800

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California: 1. The information provided on this Certificate of Compliance is true and correct. 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer). 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation that builder provides to the building owner at occupancy.	
Responsible Designer Name: Sathir Rousing Company: S. Y. Lee Associates, Inc. Address: 216 South Jackson Street City/State/Zip: Glendale, CA 91205	Responsible Designer Signature: _____ Date Signed: _____ License: 16027 Phone: (818) 242-2800

STATE OF CALIFORNIA			
INDOOR LIGHTING POWER ALLOWANCE		CALIFORNIA ENERGY COMMISSION	
CIC-NRCC-1109-E (Revised 09/15)		NRCC-LTI-03-E	
CERTIFICATE OF COMPLIANCE		(Page 1 of 4)	
Certificate of Compliance - Indoor Lighting Power Allowance			
Project Name: Kensingthorn Campus	Date Issued: 11/16/2018		

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:	
<input checked="" type="checkbox"/> CONDITIONED spaces	<input type="checkbox"/> UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES			
<input type="checkbox"/> If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts. <input type="checkbox"/> If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts			
	(a)		(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)			1,786
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)			0
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-04-E			1,786
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1			
<input checked="" type="checkbox"/> Check here if building contains both conditioned and unconditioned areas.			

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE				
1	2		3	4
	WATTS PER (ft²)	X	COMPLETE BLDG. AREA	= ALLOWED WATTS
TYPE OF BUILDING (From §140.6 Table 140.6-B)				
Total Area:				
Total Watts. Enter Total Watts into section A, row 1 (Above on this page)				

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (D plus E)		Watts
Total from section C-2		1,786
Total from section C-3		0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)		1,786

[illegible][illegible]

STATE OF CALIFORNIA

INDOOR LIGHTING POWER ALLOWANCE

CEC-NRCC-LTI-03-E (Revised 09/15)

CERTIFICATE OF COMPLIANCE

Certificate of Compliance - Indoor Lighting Power Allowance

Project Name: Kensington Campus

CALIFORNIA ENERGY COMMISSION

NRCC-LTI-03-E

(Page 1 of 4)

Date Issued: 11/16/2018

A separate page must be filled out for Conditioned and Unconditioned Spaces. This page is only for:

☐ CONDITIONED spaces ☒ UNCONDITIONED spaces

A. SUMMARY TOTALS OF LIGHTING POWER ALLOWANCES

☐ If using Complete Building Method for compliance, use only the total in column (a) as total allowed building watts.

☐ If using Area Category Method, Tailored Method, or a combination of Area Category and Tailored Method for compliance, use only the total in column (b) as the total allowed building watts

	(a)	(b)
1. Complete Building Method Allowed Watts. Documented in section B of NRCC-LTI-03-E (below on this page)		
2. Area Category Method Allowed Watts. Documented in section C-1 of NRCC-LTI-03-E (below on this page)		3,196
3. Tailored Method Allowed Watts. Documented in section A of NRCC-LTI-03-E		0
TOTAL ALLOWED BUILDING WATTS. Enter number into correct cell on NRCC-LTI-01, Page 2, Row 1		3,196

☒ Check here if building contains both conditioned and unconditioned areas.

B. COMPLETE BUILDING METHOD LIGHTING POWER ALLOWANCE

1	2	X	3	=	4
TYPE OF BUILDING (From §140.6 Table 140.6-B)	WATTS PER (ft ²)		COMPLETE BLDG. AREA		ALLOWED WATTS
Total Watts:					

Total Watts. Enter Total Watts into section A, row 1 (Above on this page)

C-1 AREA CATEGORY METHOD TOTAL LIGHTING POWER ALLOWANCES (D plus E)

	Watts
Total from section C-2	3,196
Total from section C-3	0
Total Watts. Enter Total Watts into section A, row 2 (Above on this page)	3,196

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance


May 2015

[illegible][illegible]

[illegible]

HITING Revised 06/01/14		CALIFORNIA ENERGY COMMISSION NRC-17O-01-E (Page 4 of 4)	
INPLIANCE			
ton Campus		Date Prepared:	11/16/2018
AUTHOR'S DECLARATION STATEMENT Certificate of Compliance documentation is accurate and complete.			
Author: S. Y. Lee Associates S. Y. Lee Associates, Inc. 210 South Jackson Street Glendale, CA 91205	Documentation Author Signature:  Signature Date: 11/16/2018 C.E.C. Certification Identification (if applicable): Phone: (818) 242-2800		
BUILDER'S DECLARATION STATEMENT Notwithstanding under penalty of perjury, under the laws of the State of California: I have provided on this Certificate of Compliance is true and correct, Under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible design features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations. The design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. A completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency upon applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the enforcement agency.			
Builder: Sothof Rowing S. Y. Lee Associates, Inc. 210 South Jackson Street Glendale, CA 91205	Responsible Designer Signature:  Date Signed: License: 16927 Phone: (818) 242-2800		
Agency Standards - 2013 Nonresidential Compliance			
June 2013			

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015

OF CALIFORNIA DOOR LIGHTING CONTROLS (C-LTO-02-E) (Revised 05/19) DATE OF COMPLIANCE or Lighting Controls *** Kensington Campus	 CALIFORNIA ENERGY COMMISSION NRCC-LTO-02-E (Page 1 of 3)
Date Prepared: 1/16/2018	

NRCC-LTO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

atory Outdoor Lighting Control Declaration Statements

all that apply:

Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with §110.9(a).

Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with §130.4(b).

All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1

Part-Night Outdoor Lighting Controls, as defined in Section 100.1(b), shall meet the requirements in Section 110.9(b)5

All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.

All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Dimmable, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b)

All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)1

All installed outdoor lighting shall be circuited and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2

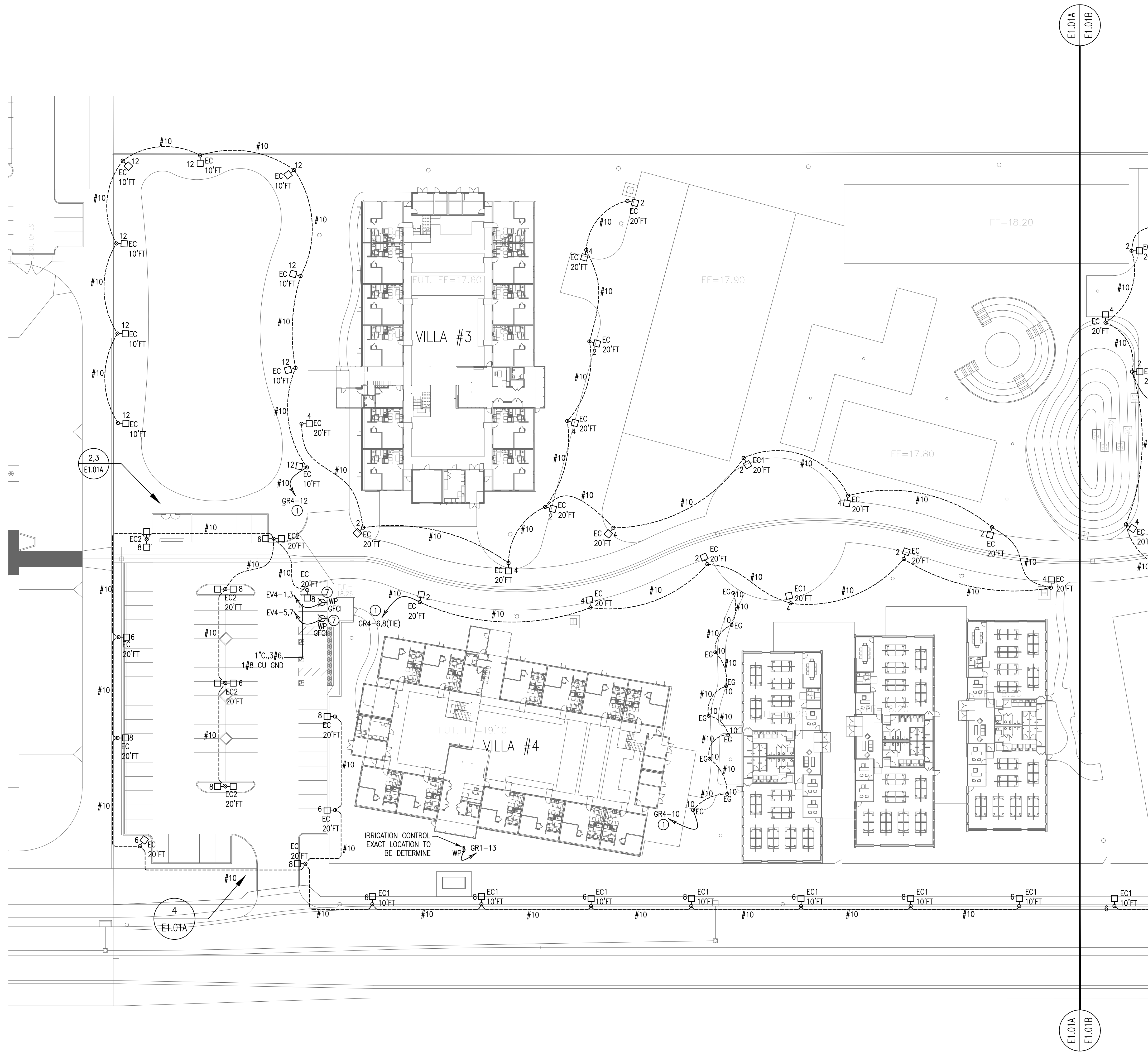
All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3

For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)4

For Building Facade, Ornamental Hardscape and Outdoor Dining Lighting, an automatic lighting control in accordance with Section 130.2(c)5

Where an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8

CA Building Energy Efficiency Standards - 2013 Nonresidential Compliance May 2015



GENERAL NOTES

1. ALL RELATED UTILITY COMPANY WORK SHOWN ON PLANS IS FOR BIDDING PURPOSES ONLY. EXACT PLACEMENT OF TRANSFORMER PADS, PULL BOXES AND UNDERGROUND CONDUIT SYSTEMS ARE SUBJECT TO CHANGE BY THE LOCAL UTILITY COMPANY; THEREFORE, CONTRACTOR SHALL ADJUST FINAL INSTALLATION OF NEW WORK SHOWN PER THE LOCAL UTILITY COMPANY'S CONSTRUCTION PLANS AND DOCUMENTS.
2. ALL NEW UNDERGROUND CONDUIT SYSTEM INSTALLED FOR ELECTRIC SHALL BE CONCRETE ENCASED WITH 3" ENVELOPE AS REQUIRED BY THE LOCAL POWER COMPANY. PRIOR TO START OF ANY UNDERGROUND TRENCHING AND EXCAVATION, CONTRACTOR SHALL COORDINATE ALL WORKS WITH THE LOCAL UTILITY COMPANIES.
3. ALL NEW MANHOLES AND PULL BOXES SHALL BE PROVIDED AND INSTALLED PER THE LOCAL UTILITY COMPANY'S REQUIREMENTS; CONTRACTOR TO COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITY COMPANIES PRIOR TO BID AND START OF WORK.
4. FOR ELECTRICAL FEEDER CONDUITS AND WIRES SIZES, CONDUITS AND OTHER INFORMATION, REFER TO SINGLE LINE DIAGRAMS.
5. FOR ADDITIONAL INFORMATION ON SIGNAL SYSTEM CABLING PROVISIONS AND INSTALLATION, REFER TO SIGNAL SYSTEM RISER WIRING DIAGRAMS AND FIRE ALARM RISER DIAGRAMS. ALL NEW UNDERGROUND CONDUIT SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL UTILITY COMPANIES REQUIREMENTS.
6. WHERE CONDUIT PENETRATES THROUGH A FIRE RATED WALL AND/OR SOUND BARRIER WALLS CONTRACTOR SHALL PROVIDE 3" FIRE CAULKING AROUND CONDUIT PENETRATION.
7. ALL ELECTRICAL DEVICES, CONDUITS, DISCONNECT SWITCHES SHALL BE WEATHERPROOF. ALL DISCONNECT SWITCHES SHOWN ON PLAN SHALL BE FUSIBLE DISCONNECT TYPE AND HAVE DUAL ELEMENT FUSES.

REFERENCE NOTES

- ① EXTERIOR LIGHT FIXTURES CONTROLLED BY LIGHTING CONTACTOR PANEL/PHOTOCELL.
- ② (2)4" C.O. PRIMARY SERVICE CONDUITS RUN BELOW GRADE AND CONCRETE ENCASED WITH 3" ENVELOPE.
- ③ PROVIDE AND INSTALL (2)4" C.O. UNDERGROUND CONDUIT STUB-OUT AND REQUIREMENTS.
- ④ PROVIDE AND INSTALL 4" UNDERGROUND CONDUIT STUB-OUT AND INSTALLED IN ACCORDANCE WITH LOCAL CABLE TV COMPANY.
- ⑤ INTERCEPT CONDUITS AT PROPERTY LINE, WORK OUTSIDE OF PROPERTY LINE SHALL BE BY UTILITY COMPANY; ALL COST ASSOCIATED SHALL BE BY THIS CONTRACT PER UTILITY COMPANY REQUIREMENTS.
- ⑥ EQUIPMENT SHALL BE PER UTILITY COMPANY STANDARDS INCLUDING GROUNDING SYSTEM.
- ⑦ PROVIDE A LABEL STARTING "EV CAPABLE" SHALL BE POSTED.
- ⑧ LOCATION OF FIRE DEPARTMENT GATE CONTROL CABINET AND GATE OVERRIDE KEY CONTROL MANUFACTURED BY KNOX KEY SWITCH MODE 3501.
- ⑨ PROVIDE CAR SAFETY LOOP EMBEDDED IN CONCRETE FINAL PLACEMENT, LOCATION AND INSTALLATION SHALL BE AS REQUIRED BY MANUFACTURER.
- ⑩ PROVIDE COPPER GROUND BUS BAR (GB), PROVIDE #6 IN 3/4" WITH GREEN INSULATED WIRE AND CONNECT TO BUILDING GROUNDING SYSTEM.
- ⑪ VIA LIGHTING INVERTER DUAL LITE DLS SERIES. REFER TO INVERTER SCHEDULE FOR ADDITIONAL INFORMATION.
- ⑫ GATE CONTROLS - PROVIDE 3/4" C., WITH CONTROL WIRES BETWEEN CONTROLS AND GATE CONTROLLER; CONTRACTOR SHALL MAKE ALL FINAL CONNECTIONS TO OVERRIDE GATE CONTROLLER FOR THE FIRE DEPARTMENT USE IN THE EVENT OF AN EMERGENCY.
- ⑬ DOOR PROVIDED WITH PANIC HARDWARE/BARS.
- ⑭ CONNECT TO CONTROLLER.

ARCHITECT:



3834 WILLAT AVENUE, CULVER CITY, CA 90232
(T) 424.299.4666 (F) 424.299.4698

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CONSULTANT:



216 SOUTH JACKSON ST., SUITE 101 GLENDALE, CA 91205
OFFICE: (818) 242-2800 FAX: (818) 244-4341

OWNER:

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YOU LEMONS, LP**

6265 VARIEL AVENUE
WOODLAND HILLS, CA 91367

818.789.5550

PROJECT:

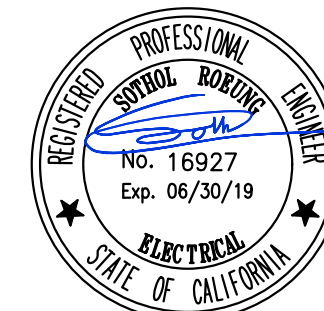
KENSINGTON CAMPUS

AVENUE I & WEST 32ND STREET
WEST LANCASTER, CA 93536

BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE:

STAMP:



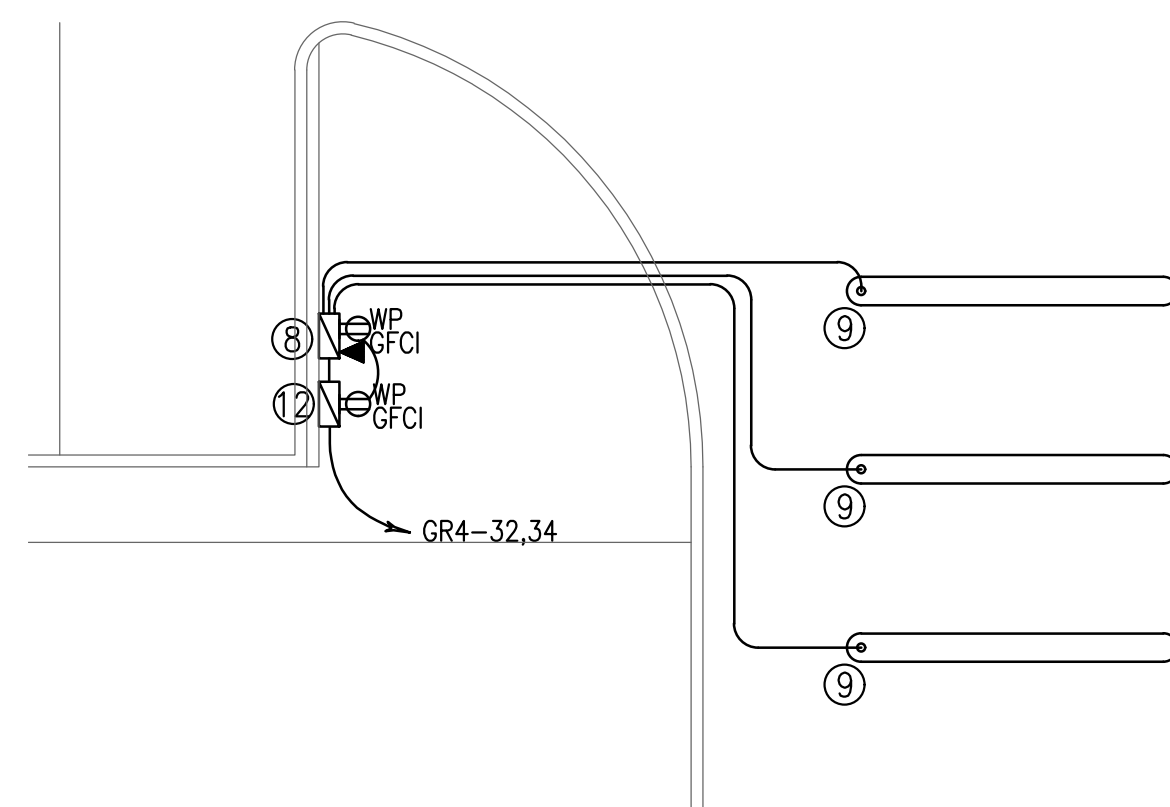
REV #	DESCRIPTION	DATE
1	Bulletin 2	11/16/2018

KEY PLAN

ELECTRICAL SITE LIGHTING PLAN I

SCALE: 1/32"=1'-0"

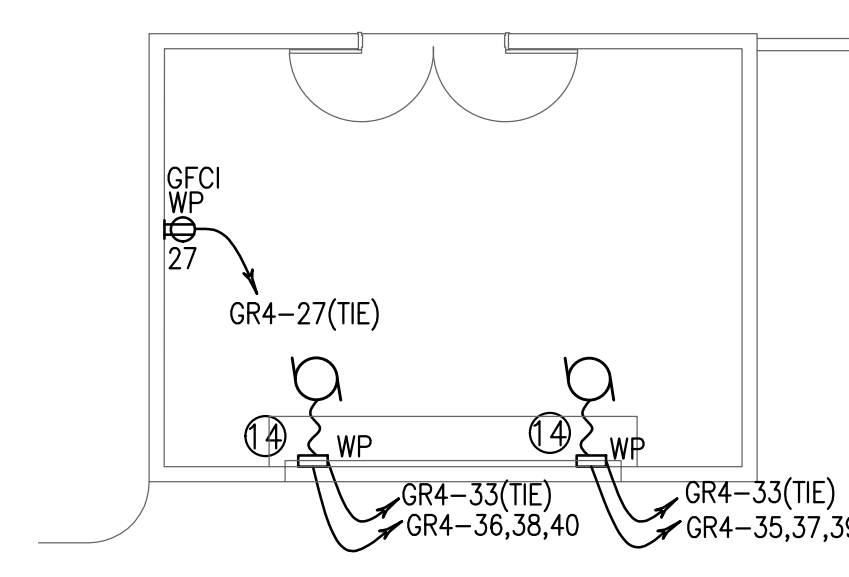
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MOTORIZED GATE LAYOUT

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

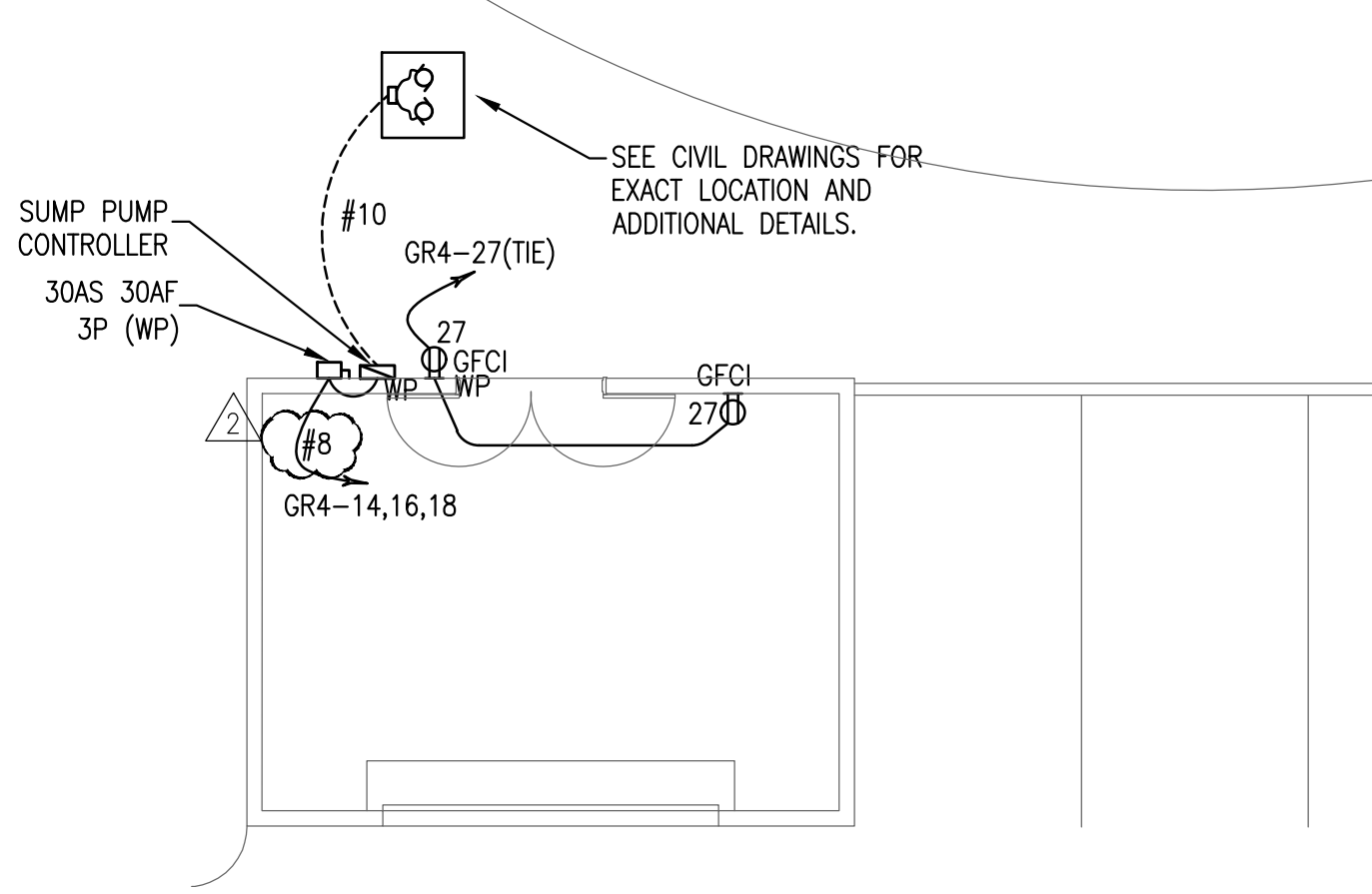
4



TRASH COMPACTOR LAYOUT

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

3



SUMP PUMP LAYOUT

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

2

PROJECT NO.	8567
PLOT DATE	11.16.2018
SCALE	AS SHOWN

SHEET TITLE

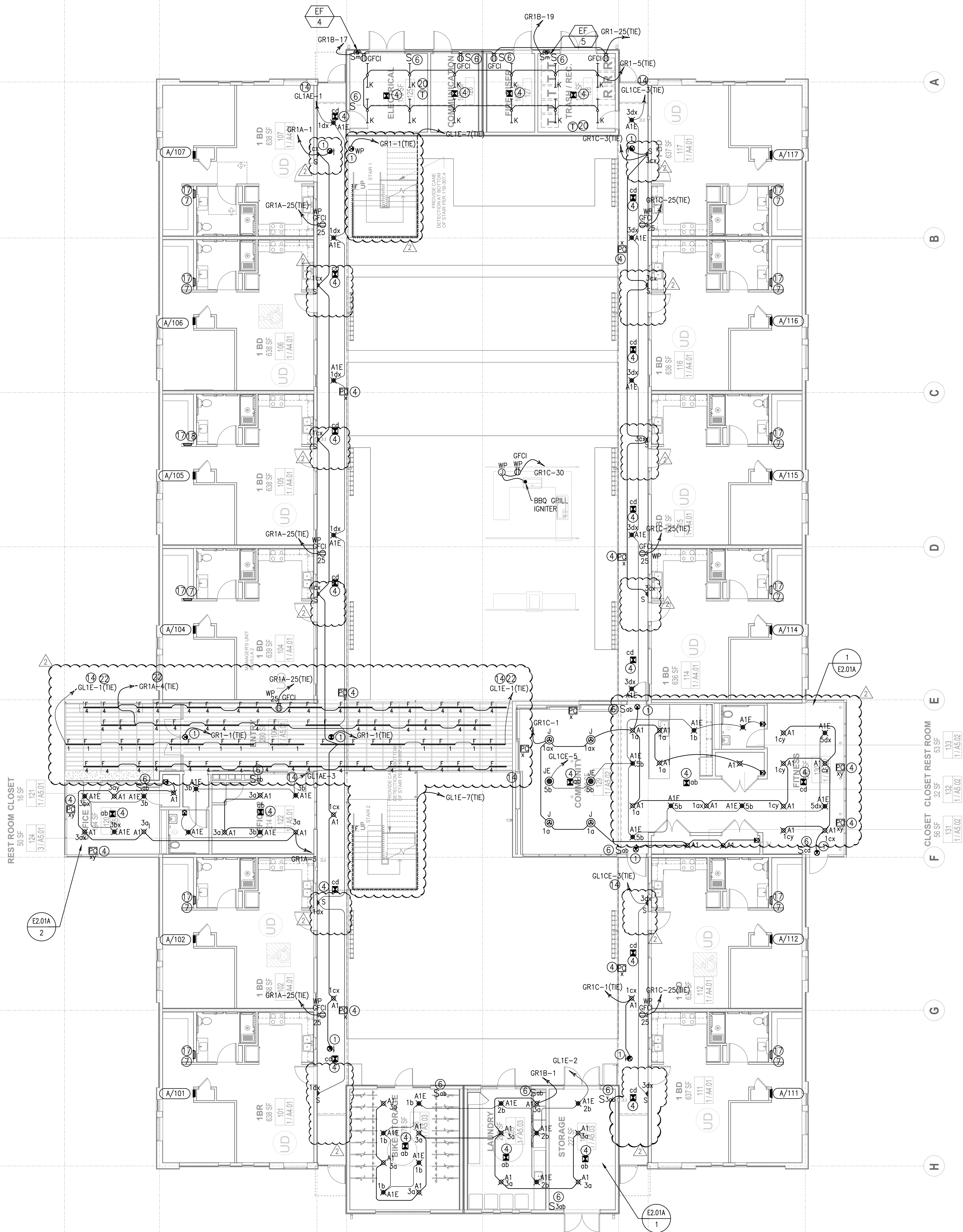
**ELECTRICAL
SITE LIGHTING
PLAN I**

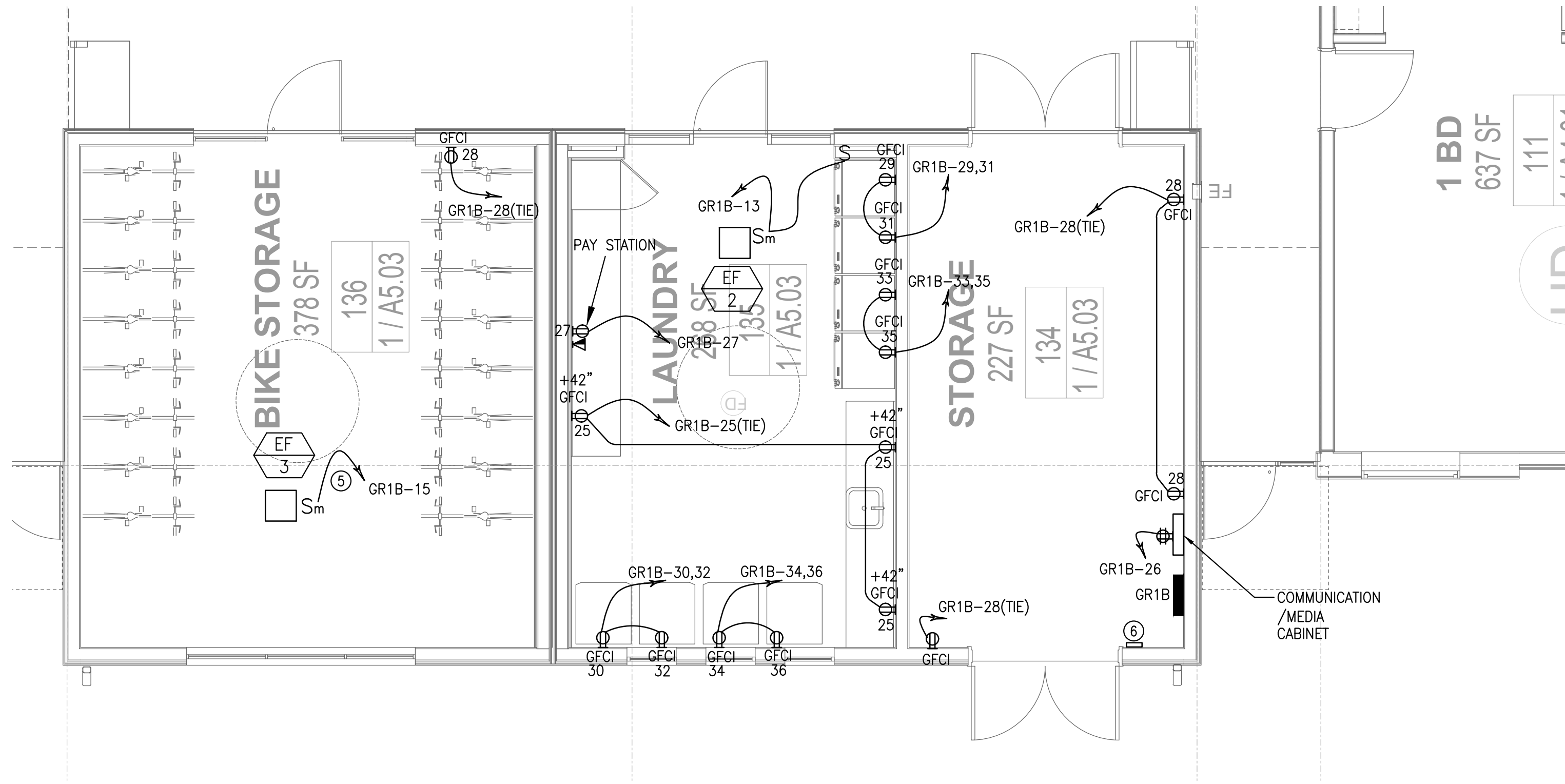
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E1.01A

FILE REF.

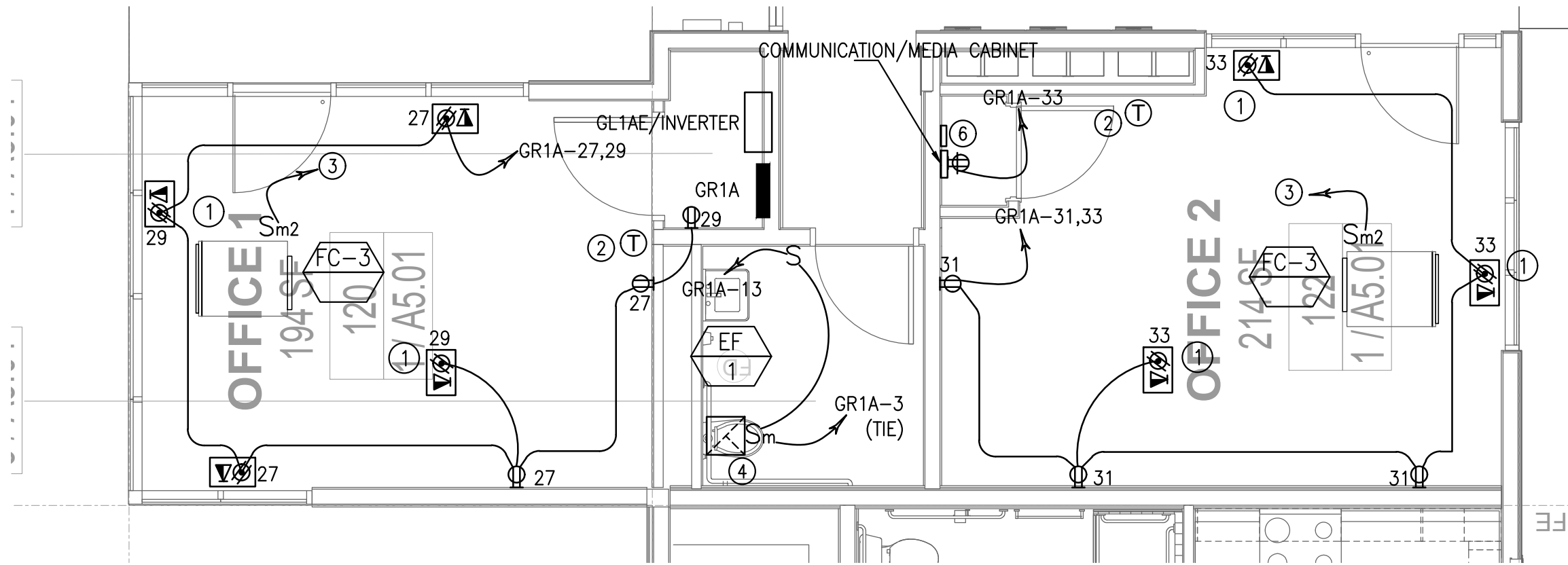
WARNING: THIS DRAWING MAY HAVE BEEN REDUCED DURING PRINTING. VERIFY SCALE BEFORE MEASURING ANY PART OF THE DRAWING.





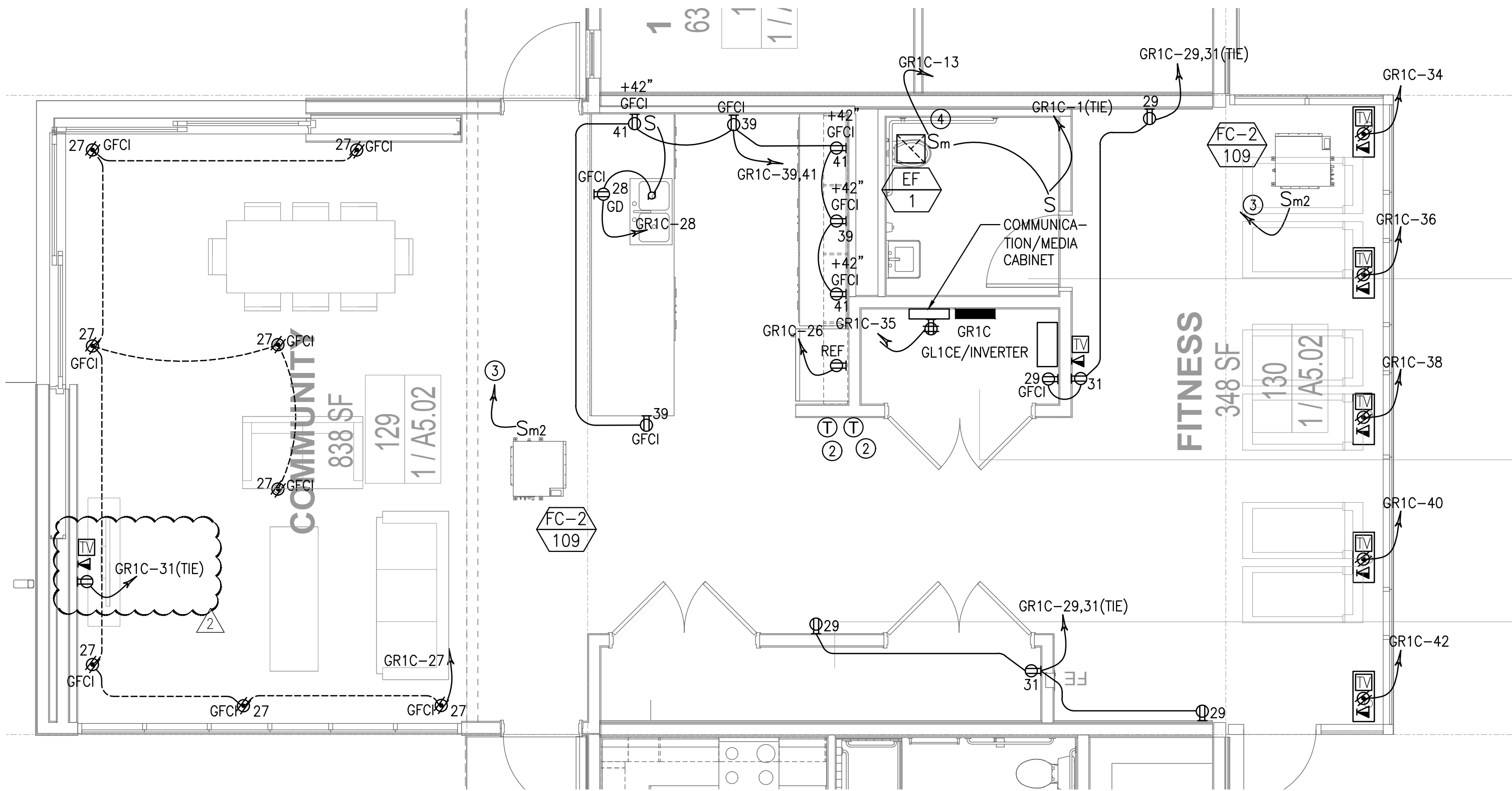
LAUNDRY/BIKE RM POWER LAYOUT 3

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



OFFICES 1 AND 2 POWER LAYOUT 2

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



DINING/FITNESS RM POWER LAYOUT 1

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

GENERAL NOTES:

1. REFERENCE ARCHITECTURAL FLOOR PLANS AND INTERIOR ELEVATIONS. FOR EXACT LOCATION OF ALL WALL MOUNTED POWER DEVICES WHERE INDICATED AT MOUNTING HEIGHTS OTHER THAN +15".
2. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL HVAC AND PLUMBING EQUIPMENT PRIOR TO START OF WORK AND CONDUIT ROUGH-IN. CONTRACTOR SHALL PROVIDE ALL MATERIAL AND MAKE ALL CONNECTIONS REQUIRED TO HVAC AND PLUMBING EQUIPMENT FOR A COMPLETE AND OPERABLE INSTALLATION.
3. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO EQUIPMENT INSTALLATION TO PREVENT UNWORKMANSHIP QUALITY.
4. ANCHOR ALL EQUIPMENT.
5. REFER TO ARCHITECTURAL CEILING PLAN FOR ADDITIONAL LIGHTING INFORMATION.
6. CONTRACTOR SHALL PROVIDE SHUNT RELAY TO ALL LIGHTING CIRCUIT CONNECTED TO EMERGENCY PANEL TO BYPASS LOCAL SWITCH INCASE OF POWER OUTAGE. REFER TO DETAIL DRAWINGS FOR ADDITIONAL INFORMATION.
7. ALL PUBLIC SPACE SHALL BE PROVIDED WITH DECORA STYLE SWITCH.
9. A COMPLETELY INDEPENDENT RACEWAY AND WIRING SYSTEM SHALL BE INSTALLED FOR EMERGENCY CIRCUITS.

REFERENCE NOTES:

- ① RECEPTACLE CONNECT TO PLUG LOAD CONTROLLER MODULE: "LMPL-101". REFER TO SHEET 1/E0.05 FOR ADDITIONAL INFORMATION.
- ② FOR HVAC EQUIPMENT, PROVIDE ROUGHING-IN WITH 3/4"C.O. FROM THERMOSTAT/SENSOR TO THE DESIGNATED HVAC EQUIPMENT. WIRING BY MECHANICAL CONTRACTOR. FOR FINAL LOCATION COORDINATE WITH MECHANICAL CONTRACTOR.
- ③ HVAC EQUIPMENT FAN COIL UNIT TO GET POWER FROM CONDENSING UNIT. CONTRACTOR SHALL PROVIDE MOTOR RATED TOGGLE SWITCH AND MAKE ALL FINAL CONNECTIONS TO CONDENSING UNIT AT ROOF FOR A COMPLETE AND OPERABLE HVAC SYSTEM. IN-ADDITION, FROM FAN COIL UNIT CONTRACTOR SHALL RUN 3/4"C., (CONTROL WIRES BY MECHANICAL CONTRACTOR) TO CORRESPONDING CONDENSING UNIT/HEAT PUMP UNIT LOCATED ON ROOF.
- ④ COMBINATION EXHAUST FAN WITH LIGHT. EXHAUST FAN WITH BUILT-IN OCCUPANCY SENSOR, LIGHT TO SEPARATE SWITCH. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- ⑤ PROVIDE RELAY SYSTEM FOR CONTROL BY LIGHT SWITCH FOR A COMPLETE AND OPERABLE SYSTEM.
- ⑥ PROVIDE COPPER GROUND BUS BAR (GB). PROVIDE #6 IN 3/4"C WITH GREEN INSULATED WIRE AND CONNECT TO BUILDING GROUNDING SYSTEM.
- ⑦ PROVIDE 30AS, 2P, 20AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND MAKE ALL FINAL CONNECTIONS TO HVAC UNIT FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE 3/4"C., 3#10 CU + 1#10 EG WIRE.

WARNING: THIS DRAWING MAY HAVE BEEN REDUCED DURING PRINTING. VERIFY SCALE BEFORE MEASURING ANY PART OF THE DRAWING.

ARCHITECT:



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6265 VARIEL AVENUE
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818.789.5550

PROJECT:

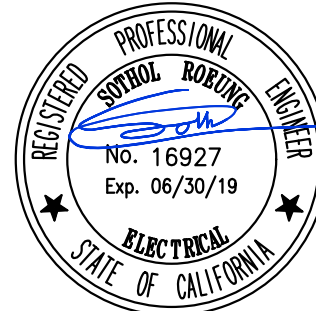
KENSINGTON CAMPUS

AVENUE I & WEST 32ND STREET
WEST LANCASTER, CA 93536

BUILDINGS:
45260 32ND ST W
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PHASE:

STAMP:



REV #	DESCRIPTION	DATE
2	Bulletin 2	11/16/2018

KEY PLAN

PROJECT NO.	8567
PLOT DATE	11.16.2018
SCALE	AS SHOWN

SHEET TITLE

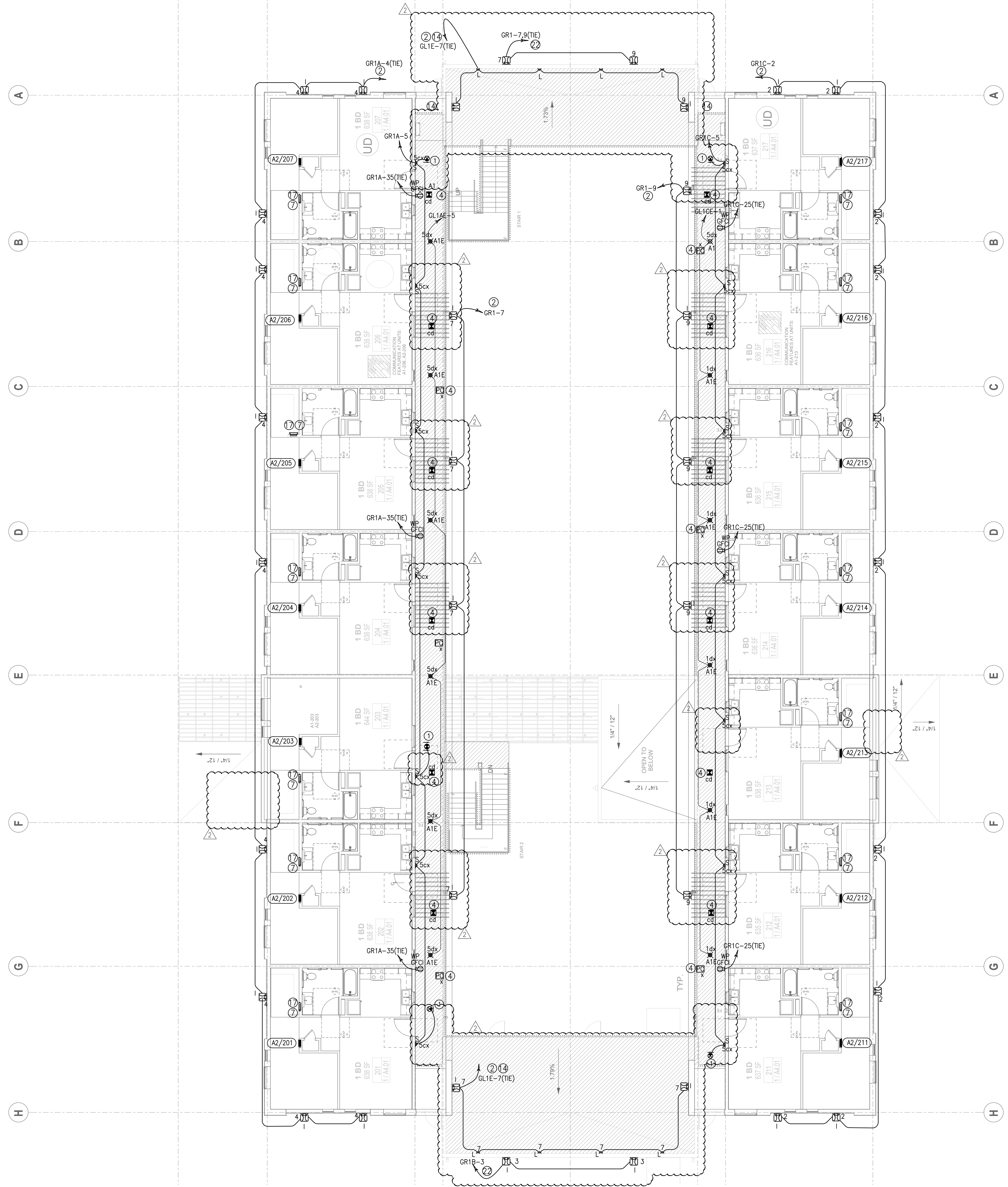
ELECTRICAL
ENLARGED COMMON
AREA POWER PLAN

SHEET NO.

E2.01A

FILE REF.

PLOT DATE: 11/16/18



GENERAL NOTES:

- MECHANICAL EQUIPMENT INSTALLATIONS – CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS AND REQUIREMENTS PRIOR TO ANY CONDUIT AND OUTLET BOXES ROUGH-IN.
- CONTRACTOR SHALL MAKE ALL FINAL LINE VOLTAGE ELECTRICAL CONNECTIONS TO THE HVAC EQUIPMENT PER MANUFACTURER'S REQUIREMENTS FOR A COMPLETE AND OPERABLE HVAC SYSTEM. FOR LOW VOLTAGE CONTROL WIRING CONTRACTOR SHALL PROVIDE CONDUITS/SLEEVE PROTECTION AS REQUIRED FOR THE INSTALLATION OF HVAC CONTROL WIRING BY MECHANICAL CONTRACTOR.
- PRIOR TO ROUGH-IN OF ANY CONDUIT, OUTLETS AND/OR DISCONNECT SWITCHES CONTRACTOR SHALL VERIFY EXACT LOCATION OF HVAC EQUIPMENT WITH MECHANICAL PLANS. ALL CONDUIT RUNS AND JUNCTION BOXES SHOWN ON PLANS SHALL BE RUN IN THE CEILING SPACE OF THE 2ND FLOOR.
- ALL CONDUIT SHOWN ON SHEET SHALL BE RUN CONCEALED IN CONCRETE CEILING SLAB UNLESS OTHERWISE NOTED.
- ALL ELECTRICAL DEVICES, CONDUITS, DISCONNECT SWITCHES, ETC. FOR EXTERIOR USE SHALL BE WEATHERPROOF RATED. ALL DISCONNECT SWITCHES SHOWN ON PLAN SHALL BE FUSIBLE DISCONNECT TYPE AND HAVE DUAL ELEMENT FUSES.
- WHERE CONDUIT PENETRATIONS THROUGH RATED WALL OR CEILING, CONTRACTOR SHALL PROVIDE "3m" FIRE CAULKING AROUND CONDUIT PENETRATION.
- NO PIPING DUCTS OR EQUIPMENT FOREIGN TO ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO LOCATED WITHIN THE DEDICATED SPACE ABOVE THE ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL PROVIDE SHUNT RELAY TO ALL LIGHTING CIRCUIT CONNECTED TO EMERGENCY PANEL TO BYPASS LOCAL SWITCH INCASE OF POWER OUTAGE REFER TO SHEET E0.5 FOR ADDITIONAL INFORMATION.
- FIRE ALARM SYSTEM IS UNDER SEPARATE PLANS AND PERMIT.

REFERENCE NOTES:

- WALL AND/OR CEILING MOUNTED EXIT SIGNS. (WHERE SHOWN WALL MOUNTED SHALL BE FLUSH MOUNTED +12" ABOVE DOOR HEADER).
- EXTERIOR LIGHTING FIXTURES CONTROLLED BY LIGHTING CONTACTOR PANEL/PHOTOCELL. REFER TO SHEET 2/E0.05 FOR ADDITIONAL INFORMATION.
- NOT USED.
- PHOTOCELL OCCUPANCY/PHOTOCELL SENSOR CONNECT TO WATSTOPPER "LMRC SERIES". REFER SHEET 1/E0.05 FOR ADDITIONAL INFORMATION.
- NOT USED.
- DIGITAL SWITCH CONNECT TO WATSTOPPER "LMRC DEVICE", REFER TO SHEET 1/E0.05 FOR ADDITIONAL INFORMATION.
- PROVIDE 10"W. X 12"H. X 6"D. FLUSH MOUNTED CABINET WITH HINGED DOOR (PAINTED TO MATCH WALL FINISH) +6"-6" A.F.F. WITHIN CABINET INSTALL 2 OR 4 WAY SPLITTERS (AS REQUIRED) FOR CATV/SATELLITE TV, TELEPHONE AND DATA/INTERNET OUTLETS CABLES DISTRIBUTION, INSTALLATION AND CONNECTIONS. SEE COMMUNICATION SYSTEM RISER WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
- NOT USED.
- NOT USED.
- PROVIDE SEMI-RECESSED FLOOR PROXIMITY EXIT SIGN. SHALL BE MOUNT PER V.B.C. 100 7.6.2.
- NOT USED.
- EXHAUST FAN TO BE CONNECTED WITH LIGHT SWITCH VIA RELAY.
- DIMMING ROOM CONTROLLER "LMRC" SERIES. REFER TO SHEET 1/E0.05 FOR ADDITIONAL INFORMATION.
- VIA LIGHTING INVERTER. REFER TO SHEET E0.03 FOR ADDITIONAL INFORMATION.
- PROVIDE 3/4" THICK, 4"W X 8"H PLYWOOD PAINTED WHITE ON ONE SIDE. BACKBOARDS SHALL BE FIRE RETARDANT.
- PROVIDE COPPER GROUND BUS BAR (GB). PROVIDE #6 IN 3"C WITH GREEN INSULATED WIRE AND CONNECT TO BUILDING GROUNDING SYSTEM.
- HOMERUN COMMUNICATION COMPOSITE (DATA & VIDEO) CABLES BACK TO COMMUNICATION BACK BOARD, LOCATED IN COMMUNICATION ROOM. THE CABLES SHALL BE CONTAIN THE FOLLOWING AND INSTALLED BETWEEN THE COMMUNICATION CLOSET AND EACH APARTMENT UNIT:
A. (1) 4 PAIR CAT. 5e CABLE FOR TELEPHONE;
B. (1) 4 PAIR CAT. 5e CABLE FOR DATA/IP INTERNET;
C. (1) 1 CABLE RG-6/U COAXIAL CABLES FOR CATV TV; AND
D. (1) 1 CABLE RG-6/U COAXIAL CABLES FOR SATELLITE TV.
- TELEPHONE ENTRY SYSTEM CONTROL PANEL "DOORKING 1837", INCLUDING MOUNTING HARDWARE NECESSARY PER MANUFACTURER RECOMMENDATION. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION. PROVIDE POWER WIRING AND ROUGHING-IN FOR MAIN DOOR STRIKES, & SENSORS COORDINATE WITH THE EOPT. SUPPLIER/CONTRACTOR FOR THE LOCATION OF DEVICES. MOUNTED +48" AFF TO TOP OF BOX PER ADA REQUIREMENT.

WARNING: THIS DRAWING MAY HAVE BEEN REDUCED DURING PRINTING. VERIFY SCALE BEFORE MEASURING ANY PART OF THE DRAWING.

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PROJECT:

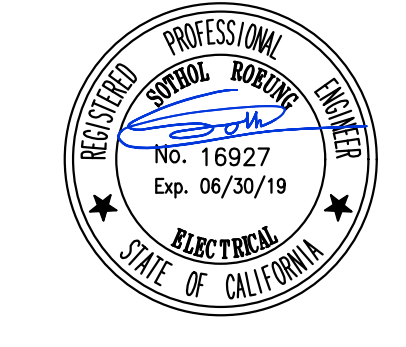
KENSINGTON CAMPUS

AVENUE I & WEST 32ND STREET
WEST LANCASTER, CA 93536

BUILDINGS:
45260 32ND ST W
45244 32ND ST W

PHASE:

STAMP:



REV #
2

DESCRIPTION
Bulletin 2

DATE
11/16/2018

KEY PLAN

PROJECT NO.

8567

PLOT DATE

11.16.2018

SCALE

AS SHOWN

SHEET TITLE

**ELECTRICAL
LEVEL 2 FLOOR
VILLA 1**

SHEET NO.

E2.02

FILE REF.

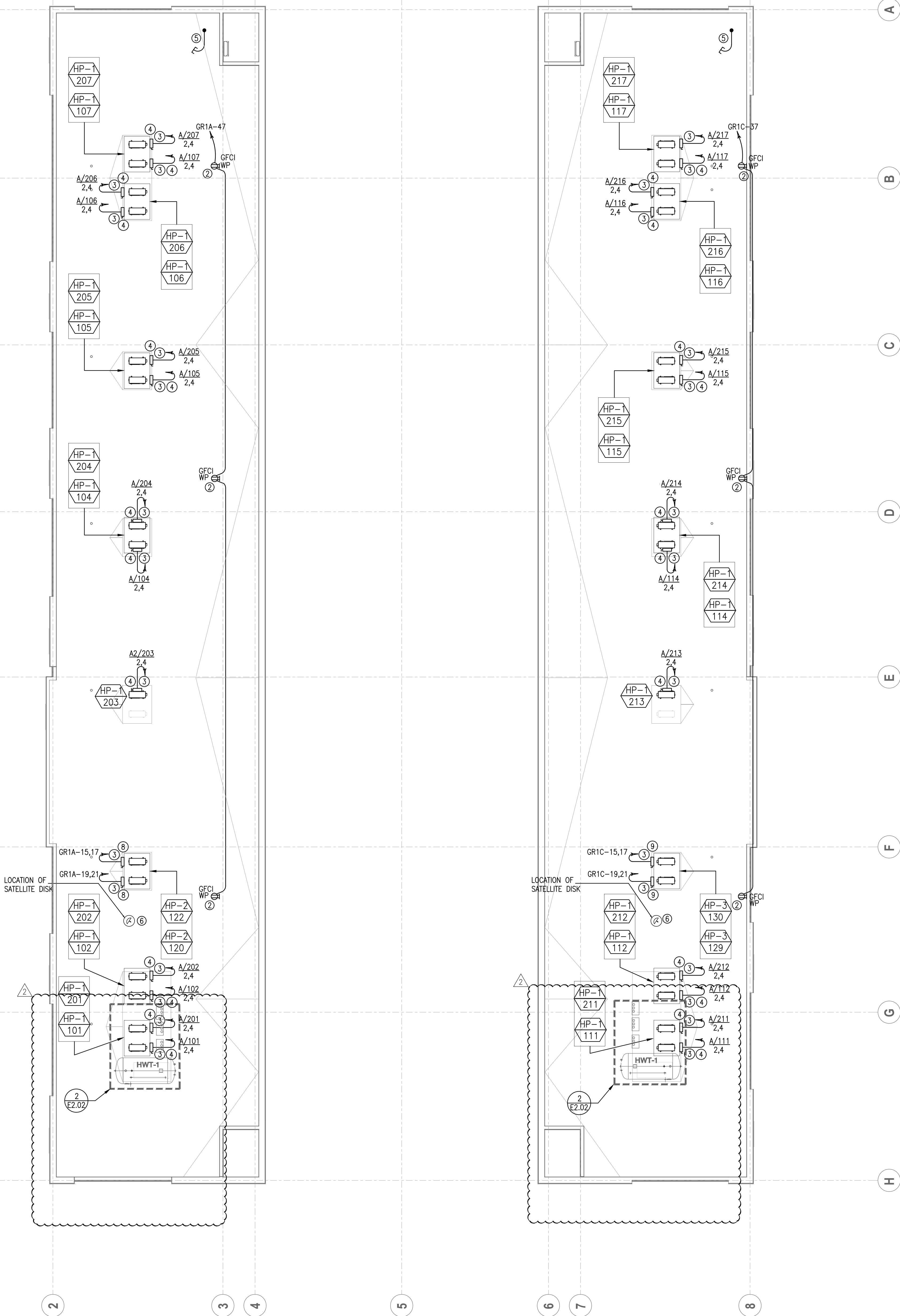
VILLA #4 - TYPICAL LEVEL 2 FLOOR PLAN

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

1

BULLETIN 2

11.16.2018



VILLA #1 - TYPICAL ROOF PLAN

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

GENERAL NOTES

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- CONTRACTOR SHALL VERIFY EXACT LOCATION OF HVAC EQUIPMENT WITH MECHANICAL PRIOR TO ROUGH-IN OF ANY CONDUIT, OUTLETS AND/OR DISCONNECT SWITCHES - ALL CONDUIT RUNS AND JUNCTION BOXES SHOWN ON PLANS SHALL BE RUN IN THE CEILING SPACE OF THE 9TH FLOOR.
- WHERE CONDUIT PENETRATIONS OCCUR THROUGH ROOF MEMBRANE, CONTRACTOR SHALL PROVIDE ROOF RAIN FLASHING AROUND CONDUIT FOR A RAIN TIGHT SEAL.
- ALL ELECTRICAL DEVICES, CONDUITS, DISCONNECT SWITCHES SHALL BE WEATHERPROOF. ALL DISCONNECT SWITCHES SHOWN ON PLAN SHALL BE FUSIBLE DISCONNECT TYPE AND HAVE DUAL ELEMENT FUSES.
- EXTERIOR ROOF MOUNTED LIGHT FIXTURE SHALL BE AUTOMATIC SHUT-OFF WITH MANUAL TOGGLE SWITCH CONTROL.
- EXPOSED CONDUIT ON ROOF SHALL BE RIGID GALVANIZED STEEL.
- SUPPORT CONDUIT ON ROOF WITH MASTIC RED WOOD BLOCK, 10' 0.C.
- ELEVATOR MACHINE CONTROLLER SHALL BE INTERFACED WITH THE FIRE ALARM SYSTEM.
- REFER TO ARCHITECTURAL PLAN FOR ADDITIONAL LIGHTING INFORMATION.
- ALL CONDUITS AND OUTLET BOXES SHALL BE RECESSED INTO EXISTING AND NEW CONCRETE WALL.

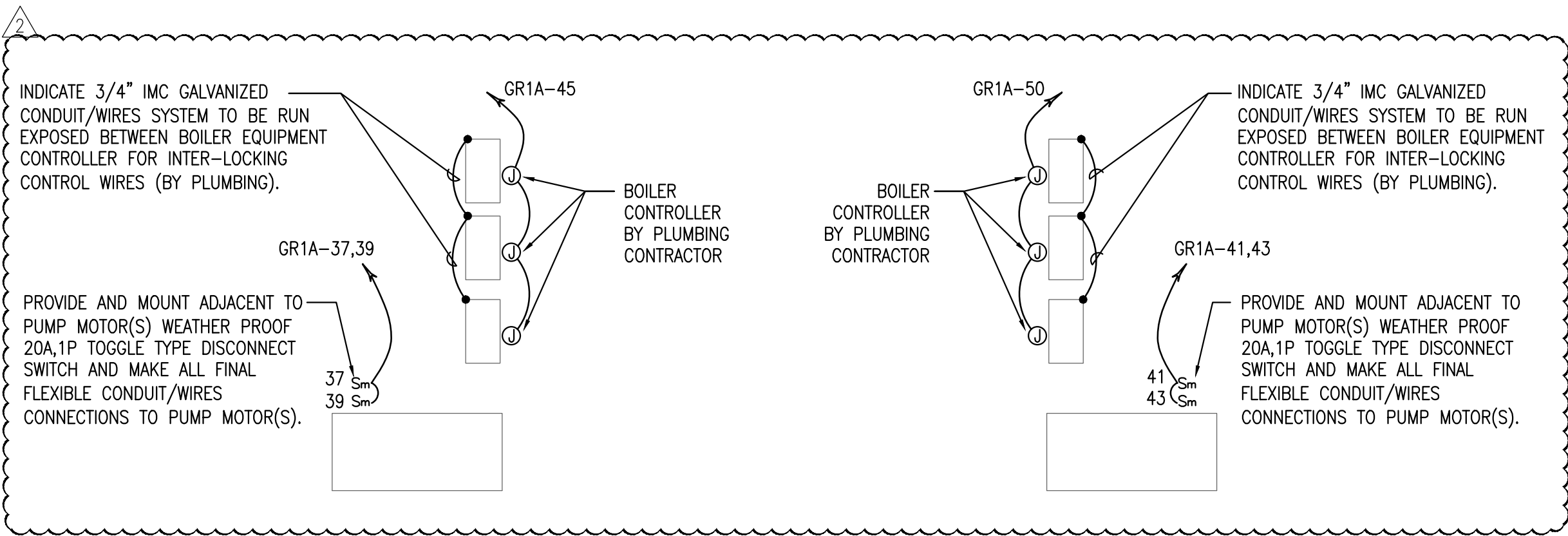
REFERENCE NOTES

- MOUNT +7'-6" A.F.F. EXTERIOR LIGHT FIXTURE WITH PHOTO CELL CONTROL. FIXTURE SHALL BE WIRED FOR SWITCH AND PHOTO CELL CONTROL. FIXTURE TYPE SHALL BE LITHONIA #TWAC-26DIT-120-XHP-PE-DWH-LPI-RK1-PEB1
- PROVIDE WEATHERPROOF GFCI DUPLEX RECEPTACLE MOUNTED ADJACENT TO HVAC ROOF MECHANICAL EQUIPMENT.
- RUN 3/4" CONDUIT FOR EACH HP/CU UNITS TO CORRESPONDING FAN COIL UNIT LOCATION. PROVIDE PULL WIRES TO ALLOW MECHANICAL TO PULL IN CONTROL WIRES. COORDINATE EXACT LOCATION AND POINT OF CONNECTION WITH MECHANICAL CONTRACTOR.
- PROVIDE 30AS, 2P, 30AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND MAKE ALL FINAL CONNECTIONS TO HVAC UNIT FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE 3,4"C., 3#10 CU + 1#10 EG WIRE.
- PROVIDE (1)2" EMT CONDUIT STUB UP TO ELECTRICAL ROOM FOR FUTURE PHOTOVOLTAIC SYSTEM. CAP CONDUIT +6" ABOVE ROOF WITH WATER TIGHT END CAP. COORDINATE LOCATION PRIOR TO ROUGH-IN.
- PROVIDE (6) 2"C EMPTY COMPLETE WITH WEATHERHEAD ON END (STUB-UP 12" ABOVE ROOF LINE) FOR THE MOUNTING AND CONNECTIONS SATELLITE DISH. PROVIDE WITH PULL STRING TO COMMUNICATION ROOM.
- PROVIDE COMBINATION MAGNETIC STARTER/DISCONNECT SWITCH AND INTERLOCKED WITH FACP FOR A COMPLETE AND OPERABLE SYSTEM. COORDINATE INTERLOCKING WITH MECHANICAL.
- PROVIDE 30AS, 2P, 15AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND MAKE ALL FINAL CONNECTIONS TO HVAC UNIT FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE 3,4"C., 3#10 CU + 1#10 EG WIRE.
- PROVIDE 60AS, 2P, 40AF FUSED DISCONNECT SWITCH IN NEMA 3R ENCLOSURE AND MAKE ALL FINAL CONNECTIONS TO HVAC UNIT FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE 3,4"C., 3#10 CU + 1#10 EG WIRE.

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NOTES

- ON PLUMBING EQUIPMENT INSTALLATION, CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR EXACT LOCATIONS AND REQUIREMENT PRIOR TO ANY CONDUIT AND OUTLET BOXES ROUGH-IN.
- CONTRACTOR SHALL MAKE ALL FINAL LINE VOLTAGE ELECTRICAL CONNECTIONS TO EQUIPMENT PER MANUFACTURER'S REQUIREMENTS FOR A COMPLETE AND OPERABLE BOILER SYSTEM. FOR LOW VOLTAGE CONTROL WIRING, CONTRACTOR SHALL PROVIDE CONDUITS/SLEEVE PROTECTION AS REQUIRED FOR THE INSTALLATION OF CONTROL WIRING BY PLUMBING MECHANICAL CONTRACTOR.
- WHERE CONDUIT PENETRATIONS OCCUR THROUGH ROOF MEMBRANE, CONTRACTOR SHALL PROVIDE ROOF RAIN FLASHING AROUND CONDUIT FOR A RAIN TIGHT SEAL.
- ALL ELECTRICAL DEVICES, CONDUITS, DISCONNECT SWITCHES LOCATED EXPOSED TO WEATHER SHALL BE WATERPROOF.
- CONTRACTOR SHALL PROVIDE UNI-STRUT CHANNEL, BRACKETS, ETC. FOR THE MOUNTING AND INSTALLATION OF EXPOSED CONDUIT SYSTEMS. ALL CONDUITS SHALL BE SECURED TO THE EQUIPMENT AND/OR EQUIPMENT STRUCTURAL FRAMING.



BOILER DETAIL

SCALE: NONE 2

ARCHITECT:



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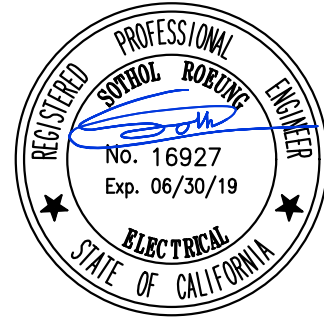
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