

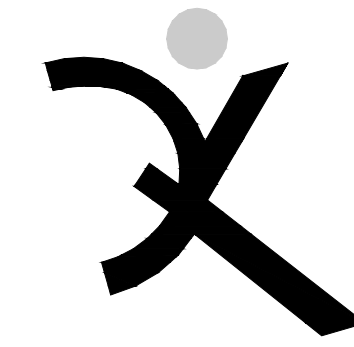
FLOOR PLAN - POWER & SIGNAL
SCALE: 1/8" = 1'-0"

NUMBERED SHEET NOTES

- 1 HORIZONTALLY MOUNTED GFI RECEPTACLE JUST BELOW WORK SURFACE. SEE ARCHITECTURAL ELEVATIONS.
- 2 RECESSED MOUNTED OUTLETS IN FLUSH AV BOX, HUBBELL #NSAV62M OR EQUAL. MOUNTED BEHIND FLAT PANEL DISPLAY. SEE ARCHITECTURAL ELEVATIONS.
- 3 FUME HOOD CONNECTION. WIRE INTERNAL FAN SWITCH TO EXHAUST FAN ON ROOF.
- 4 FLUSH CEILING MOUNTED RECEPTACLE FOR CORD REEL. PROVIDE AND INSTALL CORD REEL ADJACENT; ROBOREEL POWER REEL, CEILING MOUNTED, ORANGE, ROUND, WITH (3) 15A RECEPTACLES AND POWER REWIND.
- 5 CLASSROOM IDF LOCATED ABOVE ACCESSIBLE CEILING SPACE.
- 6 PROVIDE JUNCTION BOX WITH BLANK COVER PLATE WITH 1" CONDUIT STUB TO ACCESSIBLE CEILING SPACE.
- 7 PROVIDE 24-PORT CAT6 PATCH PANEL. SIMILAR TO DETAIL 13/E-7.2 EXCEPT WITH 24-PORT CAT6 PATCH PANEL AND (2) 8-PORT OFCI SWITCHES.

GENERAL NOTES

1. INCREASE STANDARD BRANCH CIRCUIT WIRE SIZES FOR ANY BRANCH CIRCUITS OVER 100 FT. SEE 260500-3.2(A)(10).
2. MOUNTING HEIGHTS NOTED ARE TYPICALLY TO TOP OF BOX ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. ALSO, SEE SYMBOLS LIST, SHEET E-0.1 FOR ADDITIONAL MOUNTING HEIGHT INFORMATION.



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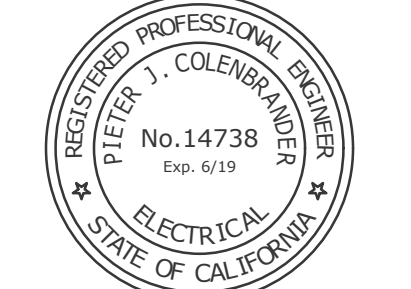
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SAN MARIN
HIGH SCHOOL

STEM BUILDING

15 SAN MARIN DR
NOVATO, CA 94945

NOVATO UNIFIED
SCHOOL DISTRICT

REVISIONS	

ARCH PROJECT NO: 1682 00

DRAWN BY: LN

DRAWING SCALE: AS NOTED

PTN: 65417-131

100% CD's

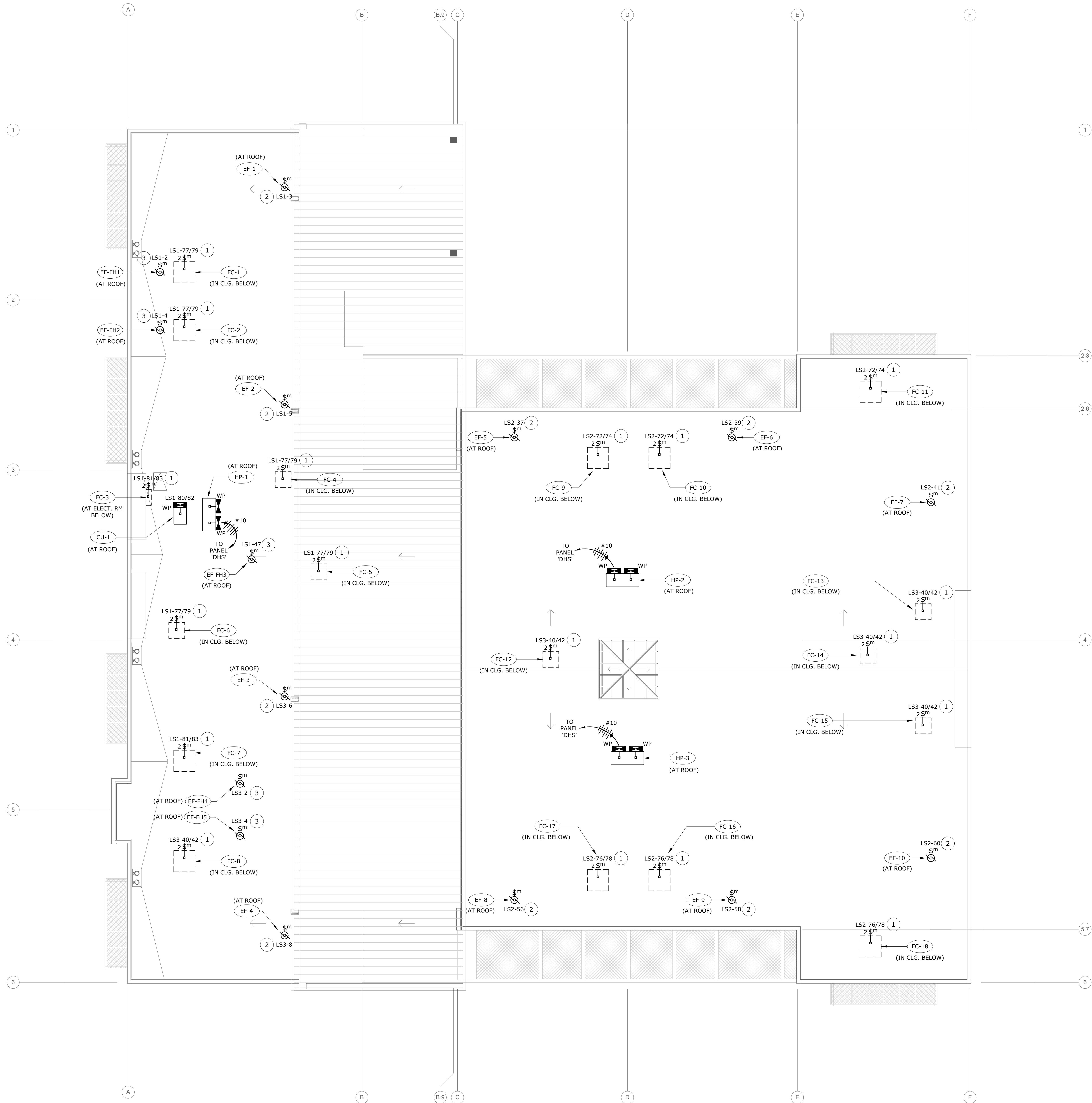
NOVEMBER 2, 2018

SHEET TITLE

FLOOR PLAN -
POWER & SIGNAL

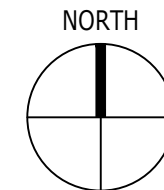
SHEET NUMBER

E-3.1



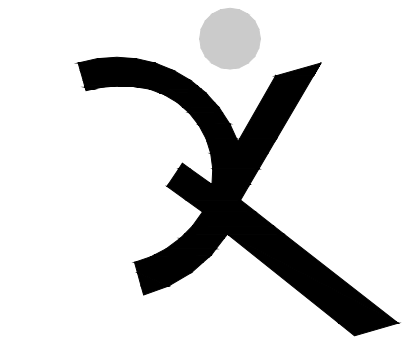
ROOF PLAN - ELECTRICAL
SCALE: 1/8" = 1'-0"

1
E-3.3

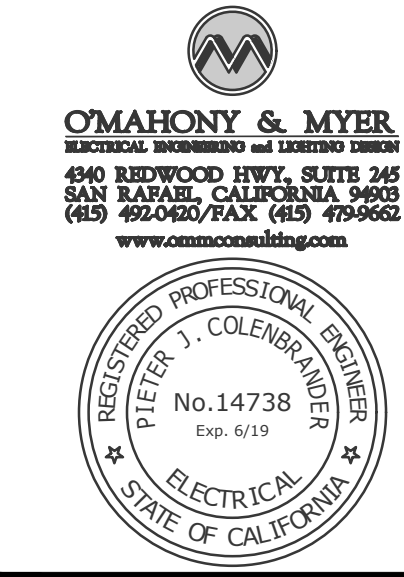


NUMBERED SHEET NOTES

- 1 CONNECT COMPLETE WITH 15A, 208V CIRCUIT (2 #12 + 1 #12 G.).
- 2 CONNECT COMPLETE WITH 20A, 120V CIRCUIT (2 #12 + 1 #12 G.) VIA MECHANICAL CONTROLS. COORDINATE WITH DIV. 23.
- 3 CONNECT COMPLETE WITH 20A, 120V CIRCUIT VIA SWITCH ON FUME HOOD BELOW. SEE E-3.1.



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SAN MARIN
HIGH SCHOOL

STEM BUILDING

15 SAN MARIN DR
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NOVATO UNIFIED
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SHEET TITLE
ROOF PLAN -
ELECTRICAL
SHEET NUMBER
E-3.3

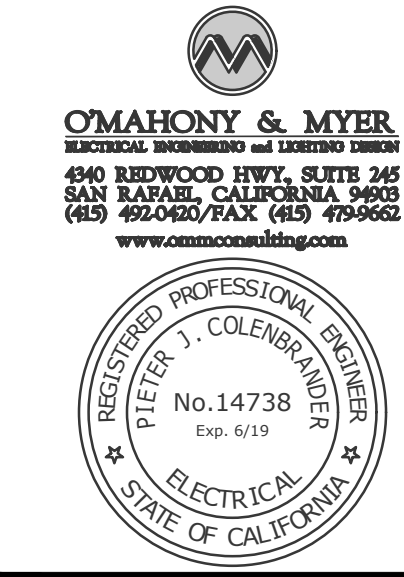


FEEDER TAG KEY	
	<p>G = INDICATES OVER-SIZED EQUIPMENT GROUND (WHERE USED)</p> <p>N = INDICATES DOUBLE NEUTRAL (WHERE USED)</p> <p>VD = UPSIZED FOR VOLTAGE DROP</p>

NOTE: NOT ALL FEEDERS ON THIS SCHEDULE ARE NECESSARILY USED ON THIS PROJECT.

1. CONTRACTOR TO RETAIN INDEPENDENT TESTING COMPANY (EMERSON OR EQUAL) TO PREPARE A SHORT-CIRCUIT AND COORDINATION STUDY (INCLUDING GROUND FAULT), AND ARC-FLASH STUDY FOR DISTRIBUTION SYSTEM, INCLUDING ALL ADJUSTABLE TRIP BREAKERS - SET BREAKER TRIP SETTING AS PER STUDY RECOMMENDATIONS AND IDENTIFY ALL ARC FLASH HAZARD LEVELS ON NEW AND EXISTING EQUIPMENT.

1. IN ADDITION TO GROUNDING INDICATED, BOND ALL COLD WATER PIPING SYSTEM, GAS PIPING SYSTEMS, AND SPRINKLER PIPING SYSTEMS TO THE BUILDING GROUND ELECTRODE SYSTEM WITH CODE SIZED BONDING CONDUCTOR IN (1) 3/4-INCH CONDUIT. BOND WHEREVER THERE IS A BREAK IN THE CONTINUITY OF THESE SYSTEMS THROUGHOUT THE PROJECT.
2. PROVIDE AND INSTALL (1)#6G, IN 3/4"-C, TO MAIN DISTRIBUTION PANEL "DHC" GROUND BUS/GROUNDING ELECTRODE SYSTEM.
3. CIRCUIT LENGTH NOT TO EXCEED 25 FEET.
4. LABEL AS 'MAIN BUILDING DISCONNECT'.
5. DISCONNECT AND REMOVE.



15 SAN MARIN DR
NOVATO, CA 94945

NOVATO UNIFIED
SCHOOL DISTRICT[illegible]

SINGLE LINE DIAGRAM - POWER

PANEL LS2

VOLTS:120 / 208 V

PHASE:3 PH

WIRE:4 W

BUSING:225A

POLES:42P

(SECTION 1)

MAIN BRKR:MLO - TEL

FEEDER:SEE SINGLE LINE

CONDUIT:SEE SINGLE LINE

MOUNTED:FLUSH

AIC RATING:SERIES

LOAD DESCRIPTION	TYPE	A	B	C	BRKR.	CKT.	CKT.	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION	
BIO 111- CORD REELS AT CLG	R	0.54			201	1	2	201	0.54			R	BIO 111- WALL RECEPT	
BIO 111- CORD REELS AT CLG	R		0.54		201	3	4	201		0.36		R	BIO 111- WALL RECEPT	
BIO 111- CORD REELS AT CLG	R			0.54	201	5	6	201			0.36	R	BIO 111- WALL RECEPT	
BIO 112- CORD REELS AT CLG	R	0.54			201	7	8	201	0.36			R	BIO 111- FLAT PANEL RECEPT	
BIO 112- CORD REELS AT CLG	R		0.54		201	9	10	201		0.36		R	BIO 111- EXT GFI RECEPT	
BIO 112- CORD REELS AT CLG	R			0.54	201	11	12	201			0.54	R	BIO 112- WALL RECEPT	
PHYSICS 113 - CORD REELS AT CLG	R	0.54			201	13	14	201	0.36			R	BIO 112- WALL RECEPT	
PHYSICS 113 - CORD REELS AT CLG	R		0.54		201	15	16	201		0.36		R	BIO 112- WALL RECEPT	
PHYSICS 113 - CORD REELS AT CLG	R			0.54	201	17	18	201			0.36	R	BIO 112- FLAT PANEL RECEPT	
BIO 118 - CORD REELS AT CLG	R	0.54			201	19	20	201	0.18			R	BIO 112- EXT GFI RECEPT	
BIO 118 - CORD REELS AT CLG	R		0.54		201	21	22	201		0.54		R	BIO 118 - WALL RECEPT	
BIO 118 - CORD REELS AT CLG	R			0.54	201	23	24	201			0.36	R	BIO 118 - WALL RECEPT	
BIO 117 - CORD REELS AT CLG	R	0.54			201	25	26	201	0.36			R	BIO 118 - WALL RECEPT	
BIO 117 - CORD REELS AT CLG	R		0.54		201	27	28	201		0.36		R	BIO 118 - FLAT PANEL RECEPT	
BIO 117 - CORD REELS AT CLG	R			0.54	201	29	30	201			0.18	R	BIO 118 - EXT GFI RECEPT	
PHYSICS 116 - CORD REELS AT CLG	R	0.54			201	31	32	201	0.54			R	BIO 117 - WALL RECEPT	
PHYSICS 116 - CORD REELS AT CLG	R		0.54		201	33	34	201		0.36		R	BIO 117 - WALL RECEPT	
PHYSICS 116 - CORD REELS AT CLG	R			0.54	201	35	36	201			0.36	R	BIO 117 - WALL RECEPT	
EF-5	H	1.18			201	37	38	201	0.36			R	BIO 117 - FLAT PANEL RECEPT	
EF-6	H		1.18		201	39	40	201		0.18		R	BIO 117 - EXT GFI RECEPT	
EF-7	H			1.18	201	41	42	201					SPARE	
		-3-42-	-2-42-	-4-42-							2.70	2.52	2.16	
THIS SECTION PHASE A:													7.12	KVA
THIS SECTION PHASE B:													6.94	KVA
THIS SECTION PHASE C:													6.58	KVA
THIS SECTION:													59.30	MAX AMPS / PHASE
PANEL TOTAL PHASE A:													13.85	KVA
PANEL TOTAL PHASE B:													13.31	KVA
PANEL TOTAL PHASE C:													13.83	KVA
TOTAL:													115.43	MAX AMPS / PHASE

PANEL HS1

VOLTS:277 / 480

PHASE:3 PH

WIRE:4 W

BUSSING:100A

POLES:30"

MAIN BRKR:MLO

FEEDER:SEE SINGLE LINE

CONDUIT:SEE SINGLE LINE

MOUNTED:SURFACE

AIC RATING:SERIES

LOAD DESCRIPTION					TYPE	A	B	C	BRKR.	A	B	C	TYPE	LOAD DESCRIPTION
LIGHTING, RM 101 - 105	L	2.96				20/1	1	2	20/1	2.62			L	LIGHTING RM 106 - 109
LIGHTING, RM 110 - 112	L		2.67			20/1	3	4	20/1		1.26		L	LIGHTING RM 113 - 114
LIGHTING, RM 115 - 116	L			1.26		20/1	5	6	20/1			1.89	L	LIGHTING RM 117 - 118
LIGHTING RM 110 HALLWAY 1	L	1.49				20/1	7	8	20/1	0.75			L	SITE LIGHTING
EMERGENCY LIGHTING INVERTER	L		2.60			30/1	9	10	20/1					SPARE
SPARE						20/1	11	12	20/1					SPARE
SPARE						20/1	13	14	20/1					SPARE
SPARE						20/1	15	16	20/1					SPARE
SPARE						20/1	17	18	20/1					SPARE
SPARE						20/1	19	20	20/1					SPARE
SPARE						20/1	21	22	20/1					SPARE
SPARE						20/1	23	24	20/1					SPARE
SPARE						20/1	25	26	20/1					SPARE
S P A C E						20/1	27	28	20/1					S P A C E
S P A C E						20/1	29	30	20/1					S P A C E
S P A C E														S P A C E
S P A C E														S P A C E
S P A C E														S P A C E
S P A C E														S P A C E
S P A C E														S P A C E
S P A C E														S P A C E
		4.45	5.27	1.26						3.37	1.26	1.89		

DEMAND LOAD SUMMARY

CONN
KVA

DEMAND
FACTOR

DEMAND KVA

TYPE "M": NON-CONTINUOUS / MISC. LOADS

0.00

100%

0.00

TYPE "L": LIGHTING / CONTINUOUS LOADS

17.50

125%

21.88

TYPE "R": RECEPTACLES (FIRST 10KVA)

0.00

100%

0.00

TYPE "R": RECEPTACLES (OVER 10KVA)

0.00

50%

0.00

TYPE "H": HVAC / MECHANICAL LOADS

0.00

100%

0.00

TOTALS:

17.50

21.88

PHASE A:7.82KVA

PHASE B:6.53KVA

PHASE C:3.15KVA

28.23

MAX AMPS / PHASE

<

SHEET NUMBER

E-6.1