

PROPOSED ELECTRICAL ALTERATIONS 16th FLOOR.



200 S.W. 1st AVENUE,
 FORT LAUDERDALE, FLORIDA 33301



PERMIT SET

DWG INFO:

© 2008
 EDWARD A. LANDERS, P.E., INC. HEREBY RESERVES ALL RIGHTS TO THE SEALS AND DRAWINGS SHOWN. THESE DRAWINGS ARE TO BE USED FOR THE PROJECT STATED ONLY AND SHALL NOT BE USED OR REPRODUCED FOR ANY OTHER PURPOSE WHATSOEVER WITHOUT THE EXPRESSED WRITTEN CONSENT. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND SHALL NOT RELY ON SCALED DIMENSIONS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.

Revisions	Date

AutoNation
 PROPOSED ELECTRICAL ALTERATIONS 16th FLOOR.
 200 S.W. 1st AVENUE, FORT LAUDERDALE, FLORIDA

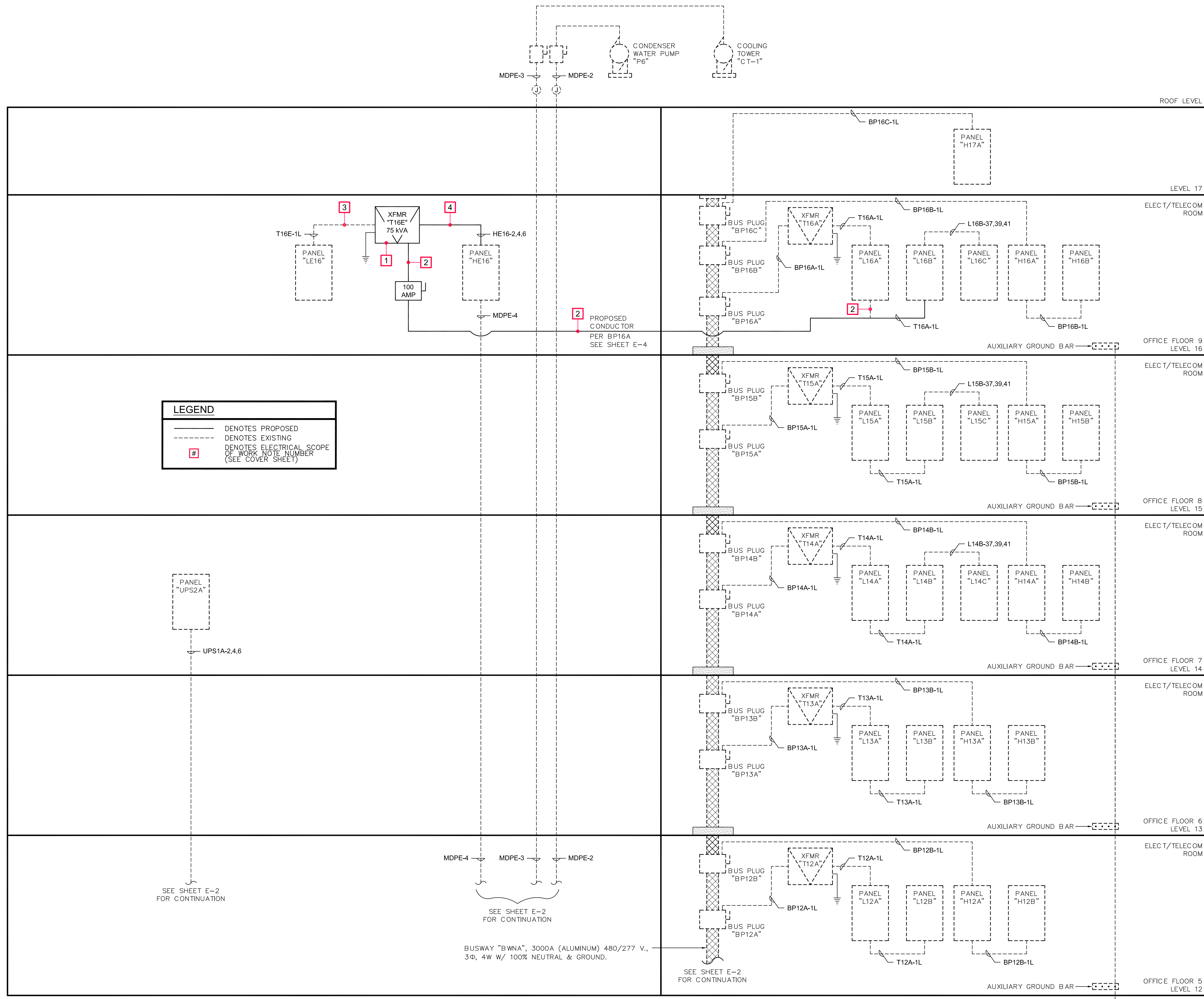
SETOFPLANS.COM
 ENGINEERING | ARCHITECTURAL | SURVEYING
 Providing Precision with Excellence
 Serving South Florida Since 2004
 Contact: Rick Hennes - Call Us 305.657.6924
 www.setofplans.com - Email: info@setofplans.com

Date: 09/21/2010
 Scale: AS NOTED
 Drawn: IEG
 Project No: 1007-0002

Sheet: **E**
 1 Of 5 Sheets

SHEET INDEX

- 1 of 5 E
- 2 of 5 E-1
- 3 of 5 E-2
- 4 of 5 E-3
- 5 of 5 E-4



LEGEND

— DENOTES PROPOSED
- - - DENOTES EXISTING
DENOTES ELECTRICAL SCOPE OF WORK NOTE NUMBER (SEE COVER SHEET)

EXISTING PARTIAL POWER RISER DIAGRAM

NOT TO SCALE

PERMIT SET

DWG INFO:

Revisions	Date

AutoNation
PROPOSED ELECTRICAL ALTERATIONS 16th FLOOR.
200 S.W. 1st AVENUE, FORT LAUDERDALE, FLORIDA

SETOFPLANS.COM
ENGINEERING | ARCHITECTURAL | SURVEYING
Providing Precision with Excellence
Serving South Florida Since 2004
Contact: Rick Haines - Call Us 786.657.8924
www.setofplans.com - Email: info@setofplans.com

Shop Drawing(s) Prepared By:

Date:	09/21/2010
Scale:	AS NOTED
Drawn:	IEG
Project No:	1007-0002

PATH: FILE: C:\LEO\2010\10-07\1007-0002\E-3.dwg - October 19, 2010 - 3:31 pm

SCHEDULE OF BRANCH CIRCUIT										PANEL "L16A" (EXISTING)				
MAIN:	400 AMP MAIN CIRCUIT BREAKER WITH FEED THRU LUGS									PANEL MAX. CAPACITY:	400 AMP			
SPEC:	EXISTING									VOLTAGE:	208/120 V 3Ø 4 WIRE			
LOCATION:	16th FLOOR ELECTRICAL ROOM									MOUNTING:	WALL MOUNTED			
										AIC SYMM:	22,000			
DESCRIPTION	WIRE	GND	COND.	TRIP (Amp)	CKT	A PHASE (KVA)	B PHASE (KVA)	C PHASE (KVA)	CT	TRIP (Amp)	COND.	GND	WIRE	DESCRIPTION
RECEPT, TOILETS	#12	#12	1/2"	20	1	0.8	0.8	-----	-----	2	20	1/2"	#12	RECEPT, CONV.
RECEPT, JANITOR CLOSET	#12	#12	1/2"	20	3	-----	0.8	0.8	-----	4	20	1/2"	#12	RECEPT, TELE BACKBOARD
RECEP. ELECT. ROOM	#12	#12	1/2"	20	5	-----	0.8	2.5	6	30	3/4"	#10	#10	WATER HEATER (LEVELS -9, -12 AND 15 ONLY)
RECEP. MECH. ROOM	#12	#12	1/2"	20	7	0.8	2.5	-----	-----	8	20	1/2"	#12	MP-S81 ONLY 16th FLOOR
SPARE	---	---	---	30	9	-----	1.0	-----	-----	10	20	1/2"	#12	BCU #1 OF LEV. 3 BCU #2
SPARE	---	---	---	30	11	-----	0.8	12	20	1/2"	#12	#12	#12	MP-S81 ONLY 16th FLOOR
GENERAL RECEPTACLES	#12	#12	1/2"	20	13	0.8	0.8	-----	-----	14	20	1/2"	#12	MODULAR FURNITURE 1609
GENERAL RECEPTACLES	#12	#12	1/2"	20	15	-----	0.8	0.8	-----	16	20	1/2"	#12	MODULAR FURNITURE 1610
TV RECEPTACLE 1601	#12	#12	1/2"	20	17	-----	0.8	0.8	18	20	1/2"	#12	#12	MODULAR FURNITURE 1610
COPIER 1603	#12	#12	1/2"	20	19	0.8	0.8	-----	-----	20	20	1/2"	#12	MODULAR FURNITURE 1610
COPIER 1603	#12	#12	1/2"	20	21	-----	0.8	0.8	-----	22	20	1/2"	#12	MODULAR FURNITURE 1610
COUNTER RECEPTACLES 1603	#12	#12	1/2"	20	23	-----	0.8	0.8	24	20	1/2"	#12	#12	MODULAR FURNITURE 1610
APPLIANCE 1603	#12	#12	1/2"	20	25	0.8	0.8	-----	-----	26	20	1/2"	#12	RECEPTACLES 1610, 11, 12
COUNTER RECEPTACLES 1603	#12	#12	1/2"	20	27	-----	0.8	0.8	-----	28	20	1/2"	#12	RECEPTACLES 1611, 12, 18, 17
DISPOSAL 1603	#12	#12	1/2"	20	29	-----	0.8	0.8	30	20	1/2"	#12	#12	RECEPTACLES 1613, 14, 15, 16
COUNTER RECEPTACLES 1603	#12	#12	1/2"	20	31	0.8	0.8	-----	-----	32	20	1/2"	#12	RECEPTACLES 1613, 14, 15, 16
RECEPTACLES 1605, 06, 07	#12	#12	1/2"	20	33	-----	0.8	0.8	-----	34	20	1/2"	#12	RECEPTACLES 1617, 18
RECEPTACLES 1610	#12	#12	1/2"	20	35	-----	0.8	-----	-----	36	20	1/2"	#10	UNKNOWN
EF-3	#12	#12	1/2"	20	37	0.8	0.1	-----	-----	38	20	1/2"	#10	UNKNOWN
SPARE	---	---	---	20	39	---	0.1	-----	-----	40	20	1/2"	#16	CTI METER
SPARE	---	---	---	20	41	---	0.1	-----	-----	42	20	1/2"	#16	CTI METER
FED FROM: "L16A" LOCATED AT ELECT. ROOM 16th FLOOR						12.2	9.1	9.8	SUBTOTAL KVA					
						31.1	TOTAL KVA (PANEL L16A)							
						33.839	25.240	27.182	AMPS PER PANEL "L16A"					
						86.261	TOTAL AMPS (PANEL L16A)							

SCHEDULE OF BRANCH CIRCUIT										PANEL "L16B" (EXISTING)					
MAIN:	400 AMP MAIN LUGS ONLY									PANEL MAX. CAPACITY:	400 AMP				
SPEC:	EXISTING									VOLTAGE:	208/120 V 3Ø 4 WIRE				
LOCATION:	16th FLOOR ELECTRICAL ROOM									MOUNTING:	SURFACE				
										AIC SYMM:	22,000				
DESCRIPTION	WIRE	GND	COND.	TRIP (Amp)	CKT	A PHASE (KVA)	B PHASE (KVA)	C PHASE (KVA)	CT	TRIP (Amp)	COND.	GND	WIRE	DESCRIPTION	
RECEPTACLES 1619	#12	#12	1/2"	20	1	0.8	0.8	-----	-----	2	20	1/2"	#12	RECEPTACLES 1633, 34	
SIGN EMON	#12	#12	1/2"	20	3	-----	0.8	-----	-----	4	20	1/2"	#12	RECEPTACLES 1633, 34	
SIGN EMON	#12	#12	1/2"	20	5	-----	0.8	-----	6	20	1/2"	#12	#12	RECEPTACLES 1635	
SIGN EMON	#12	#12	1/2"	20	7	0.8	-----	-----	8	20	1/2"	#12	#12	RECEPTACLES 1635, 36, 37	
SIGN SW	#12	#12	1/2"	20	9	-----	0.8	-----	10	20	1/2"	#12	#12	RECEPTACLES 1636, 37	
SIGN SW	#12	#12	1/2"	20	11	-----	0.8	-----	12	20	1/2"	#12	#12	COPIER 1638	
SIGN NE	#12	#12	1/2"	20	13	0.8	-----	-----	14	20	1/2"	#12	#12	COPIER 1638	
SIGN NE	#12	#12	1/2"	20	15	-----	0.8	-----	16	20	1/2"	#12	#12	RECEPTACLES 1638	
SIGN EAST	#12	#12	1/2"	20	17	-----	0.8	-----	18	20	1/2"	#12	#12	RECEPTACLES 1638	
SIGN EAST	#12	#12	1/2"	20	19	0.8	-----	-----	20	20	1/2"	#12	#12	GFI RECEPTACLES 1640, 41	
SIGN WEST	#12	#12	1/2"	20	21	-----	0.8	-----	22	20	1/2"	#12	#12	RECEPTACLES 1642	
SIGN WEST	#12	#12	1/2"	20	23	-----	0.8	-----	24	20	1/2"	#12	#12	COUNTER RECEPTACLES 1643	
UNKNOWN	---	---	---	20	25	0.8	-----	-----	26	20	1/2"	#12	#12	DISPOSAL 1643	
---	---	---	---	27	27	0.8	-----	-----	28	20	1/2"	#12	#12	DISHWASHER 1643	
---	---	---	---	29	29	0.8	-----	-----	30	20	1/2"	#12	#12	REFRIGERATOR 1643	
---	---	---	---	31	31	0.8	-----	-----	32	20	1/2"	#12	#12	COUNTER RECEPTACLES 1643	
---	---	---	---	33	33	0.8	-----	-----	34	20	1/2"	#12	#12	COUNTER RECEPTACLES 1643	
---	---	---	---	35	35	0.8	-----	-----	36	20	1/2"	#12	#12	COUNTER RECEPTACLES 1643	
PANEL "L15C"	(4)10	#6	2"	150	37	8.8	0.8	-----	-----	38	20	1/2"	#12	#12	COPIER 1643
					39	8.8	0.8	-----	-----	40	20	1/2"	#12	#12	RECEPTACLES 1643
					41	8.0	-----	-----	42	20	1/2"	#12	#12	SPARE	
FED FROM: "HE-16" LOCATED AT ELECT. ROOM 16th FLOOR FEEDER(S): (4) #3 & (1) #6 GND.						15.2	14.4	12.8	KVA PER PHASE						
						42.4	TOTAL KVA								
						42.160	39.941	35.503	AMPS PER PHASE						
						51.0	TOTAL AMPS (PANEL HE16+L16B)								

SCHEDULE OF BRANCH CIRCUIT										PANEL "L16C" (EXISTING)					
MAIN:	150 AMP / 3 POLE MAIN CIRCUIT BREAKER									PANEL MAX. CAPACITY:	250 AMP				
SPEC:	SQUARE D TYPE "NOOD" OR APPROVED EQUIVALENT									VOLTAGE:	208/120 V 3Ø 4 WIRE				
LOCATION:	16th FLOOR ELECTRICAL ROOM									MOUNTING:	SURFACE				
										AIC SYMM:	22,000				
DESCRIPTION	WIRE	GND	COND.	TRIP (Amp)	CKT	A PHASE (KVA)	B PHASE (KVA)	C PHASE (KVA)	CT	TRIP (Amp)	COND.	GND	WIRE	DESCRIPTION	
GFCI RECEPTACLE 1632	#12	#12	1/2"	20	1	0.8	0.8	-----	-----	2	20	1/2"	#12	MODULAR FURNITURE 1659	
RECEPTACLES 1644	#12	#12	1/2"	20	3	-----	0.8	0.8	-----	4	20	1/2"	#12	MODULAR FURNITURE 1659	
MODULAR FURNITURE 1647	(3)10	#12	3/4"	20	5	-----	0.8	0.8	6	20	1/2"	#12	#12	MODULAR FURNITURE 1659	
MODULAR FURNITURE 1647	(3)10	#12	3/4"	20	7	0.8	0.8	-----	-----	8	20	1/2"	#12	MODULAR FURNITURE 1659	
MODULAR FURNITURE 1647	(3)10	#12	3/4"	20	9	0.8	0.8	-----	-----	10	20	1/2"	#12	MODULAR FURNITURE 1659	
MODULAR FURNITURE 1647	(3)10	#12	3/4"	20	11	0.8	0.8	-----	-----	12	20	1/2"	#12	MODULAR FURNITURE 1659	
MODULAR FURNITURE 1647	(3)10	#12	3/4"	20	13	0.8	0.8	-----	-----	14	20	1/2"	#12	RECEPTACLES 1660	
MODULAR FURNITURE 1647	(3)10	#12	3/4"	20	15	0.8	0.8	-----	-----	16	20	1/2"	#12	RECEPTACLES 1660, 61	
RECEPTACLES 1630, 48	#12	#12	1/2"	20	17	-----	0.8	0.8	18	20	1/2"	#12	#12	RECEPTACLES 1661, 62, 63	
RECEPTACLES 1630, 48, 49, 50	#12	#12	1/2"	20	19	0.8	0.8	-----	-----	20	20	1/2"	#12	#12	RECEPTACLES 1662, 63
RECEPTACLES 1649, 50	#12	#12	1/2"	20	21	-----	0.8	0.8	-----	22	20	1/2"	#12	#12	RECEPTACLES 1664, 65
RECEPTACLES 1650, 51	#12	#12	1/2"	20	23	-----	0.8	0.8	24	20	1/2"	#12	#12	RECEPTACLES 1662, 63	
RECEPTACLES 1654, 55, 56	#12	#12	1/2"	20	25	0.8	0.8	-----	-----	26	20	1/2"	#12	#12	RECEPTACLES 1658, 55
RECEPTACLES 1653, 54, 56, 57	#12	#12	1/2"	20	27	-----	0.8	-----	-----	28	20	1/2"	#12	#12	SPARE
RECEPTACLES 1653, 56	#12	#12	1/2"	20	29	-----	0.8	-----	-----	30	20	1/2"	#12	#12	SPARE
RECEPTACLES 1659	#12	#12	1/2"	20	31	0.8	-----	-----	-----	32	20	1/2"	#12	#12	PROJ SCREEN RM 1620
RECEPTACLES 1629	#12	#12	1/2"	20	33	-----	0.8	-----	-----	34	20	1/2"	#12	#12	MOTORIZED BLINDS
SPARE	---	---	---	20	35	---	---	---	---	36	20	1/2"	#12	#12	MOTORIZED BLINDS
SPARE	---	---	---	20	37	---	---	---	---	38	20	1/2"	#12	#12	MOTORIZED BLINDS
CHANDELIER	---	---	---	20	39	---	---	---	---	40	20	1/2"	#12	#12	MOTORIZED BLINDS
WIRELESS MODEM	#12	#12	1/2"	20	41	-----	0.8	-----	-----	42	20	1/2"	#12	#12	---
FED FROM: "L16B" ELECTRICAL ROOM 16th FLOOR						8.8	8.0	8.0	KVA PER PHASE						
						24.4	22.2	22.2	AMPS PER PHASE						

SCHEDULE OF MAIN DISTRIBUTION PANEL										"MDPE" (EXISTING)				
MAIN:	400 AMP / 3 POLE MAIN LUGS ONLY									PANEL MAXIMUM CAPACITY:	400 AMP			
SPEC:	SIEMENS EQUIPMENT									VOLTAGE:	480/277 V 3Ø 4 WIRE			
LOCATION:	10th FLOOR ELECTRICAL ROOM									MOUNTING:	SURFACE			
										AIC SYMM:	65,000			
DESIGNATION	DESCRIPTION	FRAME	TRIP (Amp)	POLES	FEEDER	A PHASE (KVA)	B PHASE (KVA)	C PHASE (KVA)	CT	TRIP (Amp)	COND.	GND	WIRE	NOTES
MDPE-1	EMON - DMON	FH	20	3	3 #16 & 1 #10G IN 3/4"	0.8	0.8	0.8	---	---	---	---	---	---
MDPE-2	CONDENSER WATER PUMP "P6"	KH	30	3	3 #8 & 1 #8G IN 1"	5.5	5.5	5.5	---	---	---	---	---	---
MDPE-3	COOLING TOWER "CT-1"	KH	70	3	3 #3 & 1 #8G IN 1-1/2"	9.4	9.4	9.4	---	---	---	---	---	---
MDPE-4	PANEL "HE16"	KH	125	3	4 #210 & 1 #8G IN 2"	37.8	35.8	32.9	---	---	---	---	---	---
MDPE-5	UPSA	KH	100	3	3 #3 & 1 #8G IN 1-1/2"	16.7	15.9	14.8	---	---	---	---	---	---
MDPE-6	CR3-1	KH	20.0	3.0	3 #10 & 1 #10G IN 3/4"	0.8	0.8	0.8	---	---	---	---	---	---
MDPE-7	CR3-2	KH	20.0	3.0	3 #1									