

NOVA ENGINEERING
SERVICE & TECHNOLOGIES
LIMITED LIABILITY COMPANY

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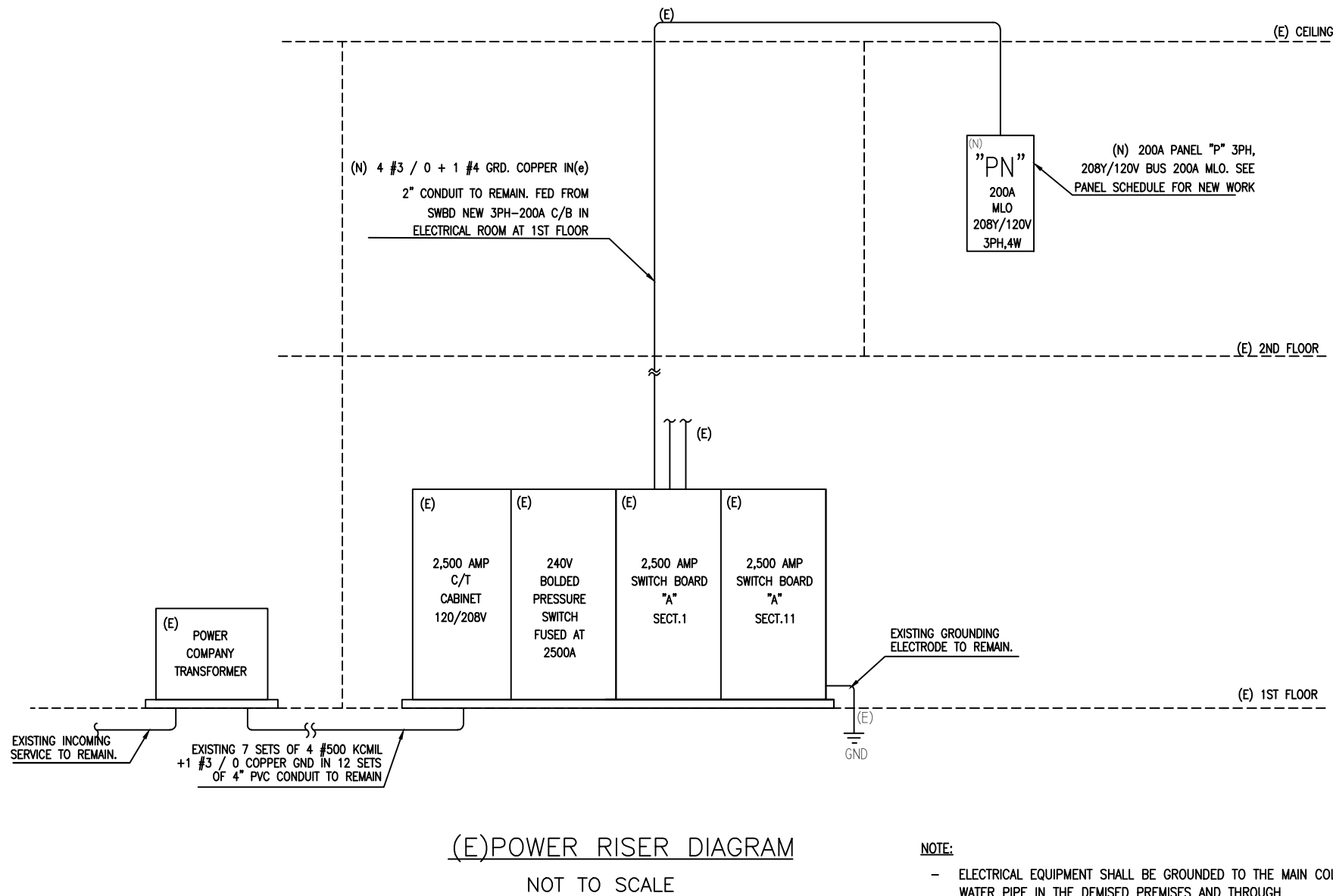
PROJECT SOMIREDDY LAW GROUP LLC.

DRAWING TITLE
NEW POWER LAYOUT PLAN
(E)POWER RISER DIAGRAM/WIRE SIZE SCHEDULE
EXISTING PANEL SCHEDULE/(E)PARTIAL POWER RISER DIAGRAM

DATE	DATE	PERMIT SET
29/10/2018		

PROJECT #: 1018-01
DESIGNED: kvd
DRAWN: zhk
SCALE: AS SHOWN

SHEET NO.
E-2
4 OF 5



- NOTE:
- ELECTRICAL EQUIPMENT SHALL BE GROUNDED TO THE MAIN COLD WATER PIPE IN THE DEMISED PREMISES AND THROUGH ELECTRICAL GROUNDING CONDUCTOR TO ELECTRICAL SERVICE GROUND.
 - ELECTRICAL CONTRACTOR SHALL VERIFY IN FIELD ALL EXISTING PANEL, EXISTING LOAD BEFORE ADD NEW LOAD.
 - ALL ELECTRICAL DEVICES LOCATED ON OUTSIDE OF BUILDING SHALL BE RATED NEMA 3R.
- (E) DENOTES EXISTING TO REMAIN
(N) DENOTES NEW

SHEET NOTES :

- EXISTING CONDITIONS ARE BASED ON "AS-BUILT" DRAWINGS PROVIDED BY THE OWNER AND LIMITED FIELD VERIFICATION CONTRACTOR SHALL ADJUST TO ACTUAL FIELD CONDITIONS AT NO ADDITIONAL EXPENSE TO THE OWNER.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DEMOLITION WORK PRIOR TO BIDDING AND START OF WORK. CONTRACTOR IS RESPONSIBLE TO DEMOLISH ALL EXISTING AS REQUIRED FOR INSTALLATION/CONSTRUCTION OF NEW WORK
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO SUBMITTING IS BID. NO ADDITIONS COMPENSATION WILL BE MADE FOR ANY EXTRAS DUE TO CONTRACTOR'S FAILURE TO VISIT THE JOBSITE AND/OR PREDETERMINE ALL EXISTING CONDITIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER FOR RESOLUTION.
- NO FIRE ALARM SYSTEM WORK SHALL COMMENCE PRIOR TO OBTAINING SUBMITTAL APPROVALS FROM FIRE MARSHALL FIRE ALARM ANNUNCIATE PANEL SHALL BE PROVIDED AT THE MAIN ENTRANCE OR IN LOCATION APPROVED BY THE AHJ.
- STROBE LIGHTS SHALL BE SYNCHRONIZED. FIRE ALARM DEVICES LOCATED IN UNHEATED AREAS BE RATED FOR OUTDOOR USE.

FIRE ALARM NOTES

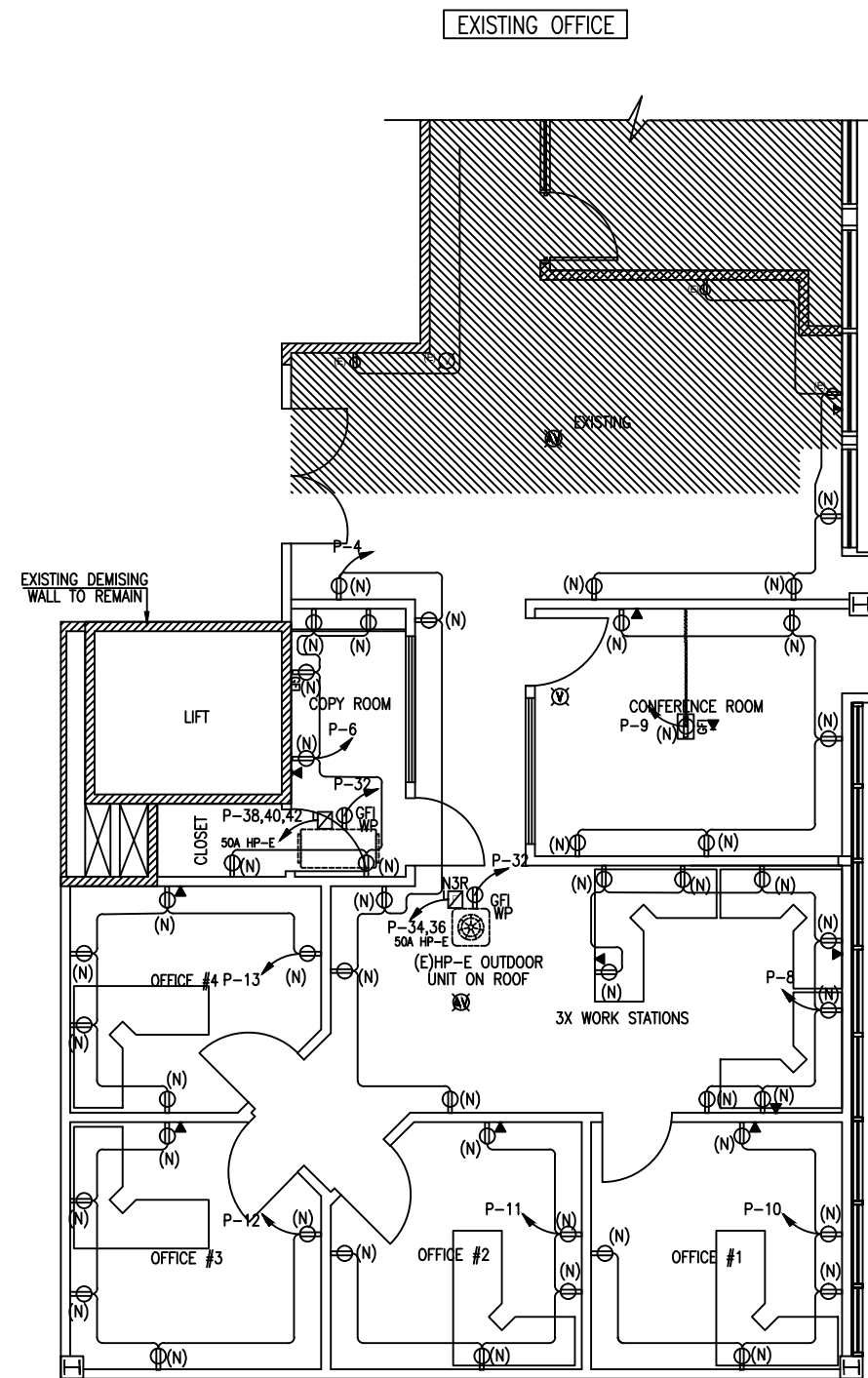
- CONTRACTOR SHALL CONNECT ALL EXISTING AND NEW TENANT'S FIRE ALARM DEVICES TO (E) LANDLORD'S FAC BY (E) 1" CONDUIT FROM MAIN BUILDING SYSTEM. CONNECTIONS TO BUILDING FIRE ALARM SYSTEM MUST BE PERFORMED BY BUILDING FIRE ALARM CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PREPARE FIRE ALARM SYSTEM DEVICE LAYOUT DRAWING SHOP DRAWINGS TO BUILDING OWNER FOR REVIEW WHEN SENDING TO FIRE MARSHALL FOR REVIEW AND GET APPROVAL PRIOR TO CONSTRUCTION INCLUDING ANNUNCIATE DIAGRAM, RISER DIAGRAM, BATTERY CALCULATION LIST OF MATERIALS, CUT SHEETS, AND PLAN.
- FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 72 & 101, ADA AND OTHER APPLICABLE CODES.
- NO FIRE ALARM SYSTEM WORK SHALL COMMENCE PRIOR TO OBTAINING SUBMITTAL APPROVALS FROM FIRE MARSHALL FIRE ALARM ANNUNCIATE PANEL SHALL BE PROVIDED AT THE MAIN ENTRANCE OR IN LOCATION APPROVED BY THE AHJ.
- STROBE LIGHTS SHALL BE SYNCHRONIZED. FIRE ALARM DEVICES LOCATED IN UNHEATED AREAS BE RATED FOR OUTDOOR USE.

NOTICE TO CONTRACTORS

ALL CONTRACTORS PRIOR TO BID SUBMISSION PROCESS SHALL VISIT PROPOSED WORK SITE AND FIELD VERIFY ALL EXISTING CONDITIONS, ANY CONDITIONS THAT DIFFER FROM THAT SHOWN ON THIS PLAN SHALL BE REPORTED TO ARCHITECT/ ENGINEER SO THAT NEW AND REVISED BID DRAWINGS OR INFORMATION MAY BE ISSUED. MODIFICATIONS TO SCOPE OF WORK WHICH RESULTS FROM CONTRACTORS NEGLECT TO VISIT THE SITE PRIOR TO SUBMITTING BID, SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY .

(N) PANEL SCHEDULE									
ELECTRICAL ROOM PANEL DESIGNATION "PN"		VOLTAGE:208Y/120V		PHASE:3	WIRES:4	MAINS:200	MLO	MOUNTING:SURFACE	
FED FROM (E) METER		A.I.C. RATING:24K						REMARKS:--	
BRANCH CIRCUIT LOAD DESCRIPTION	LOAD KVA	CIRCUIT BREAKER NO. / TRIP	PHASE	CIRCUIT BREAKER NO. / TRIP	LOAD KVA	BRANCH CIRCUIT LOAD DESCRIPTION			
ENTRANCE/HALL WAY LIGHTING	0.04	1 20 1	A	2 20 1		SPARE			
CONFERENCE/CLOSET AND COPY HALL WAY LIGHTING	0.21	1 20 3	B	4 20 1	0.9	LOBBY RECEPTACLES			
WORK STATIONS AND OFFICE#2 LIGHTING	0.25	1 20 5	C	6 20 1	1.08	COPY AND CLOSET RECEPTACLES			
OFFICE 3&4 LIGHTING	0.16	1 20 7		8 20 1	1.44	WORK STATIONS RECEPTACLES			
CONFERENCE ROOM RECEPTACLES	1.08	1 20 9		10 20 1	0.72	OFFICE #1 RECEPTACLES			
OFFICE #2 RECEPTACLES	0.72	1 20 11		12 20 1	0.72	OFFICE #3 RECEPTACLES			
OFFICE #4 RECEPTACLES	0.72	1 20 13		14 20 1		SPARE			
SPARE		1 30 15		16 20 1		SPARE			
SPARE		1 20 17		18 20 1		SPARE			
SPARE		1 20 19		20 20 1		SPARE			
SPARE		1 20 21		22 20 1		SPARE			
SPARE		1 20 23		24 20 1		SPARE			
BUS SPACE		25		26 20 1		SPARE			
BUS SPACE		27		28		BUS SPACE			
BUS SPACE		29		30		BUS SPACE			
BUS SPACE		31		32 20 1	0.36	(E) UNIT E RECEPTACLES			
----	--	33		34 50 2	2.70	(E) HP-E			
----	--	35		36 --	2.70	----			
----	--	37		38 50 3	4.40	(E) AHU E			
----	--	39		40 --	4.40	----			
----	--	41		42 --	4.40	----			
PANEL SHALL BE SIEMENS, SQUARED OR CUTLER HAMMER MANUFACTURER.									
TOTAL CONNECTED LOAD:									
CONTINUOUS LOAD (125% OF CONTINUOUS LOAD): LIGHTINGS					790x1.25 =	987.5VA			
LARGEST MOTER LOAD (LARGEST MOTOR x 125%): HVAC					13,200x1.25=	16,500VA			
MOTOR LOAD (100% OF LOAD)						0.00VA			
NON--CONTINUOUS LOAD(100% OF LOAD):EQUIPMENTS					22,000x1.00=	22,000VA			
RECEPTACLES LOAD(FIRST 10.0KVA @ 100% OF LOAD):					8460x1.00=	8460VA			
THE REMAINING @50% OF LOAD:					500 KVA OR 140 AMPS				

I/GC. SHALL VERIFY IN FIELD ALL EXISTING HVAC LOAD,
MANUFACTURER REQUIREMENT FOR OVER CURRENT PROTECTION
BEFORE PROVIDE AND INSTALL CIRCUIT BREAKER TO NEW PANEL



FIRE ALARM LAYOUT PLAN
NEW POWER LAYOUT PLAN
SCALE : 1/4"=1'

WIRE SIZE SCHEDULE						
AMPACITY	WIRE SIZE COPPER	1 PHASE	2 PHASE	3 PHASE	GND SIZE COPPER	CONDUIT SIZE
20 AMP	#12 AWG	2#12 + G	3#12 + G	4#12 + G	#12 AWG	3/4 "
25A - 30A	#10 AWG	2#10 + G	3#10 + G	4#10 + G	#10 AWG	3/4 "
35A - 40A	#8 AWG	2#8 + G	3#8 + G	4#8 + G	#10 AWG	1 "
45A - 50A	#6 AWG	2#6 + G	3#6 + G	4#6 + G	#8 AWG	1 "
60A - 70A	#4 AWG	2#4 + G	3#4 + G	4#4 + G	#8 AWG	1-1/2 "
75A - 85A	#3 AWG	2#3 + G	3#3 + G	4#3 + G	#8 AWG	1-1/2 "
90A - 95A	#2 AWG	2#2 + G	3#2 + G	4#2 + G	#8 AWG	2 "
100A -110A	#1 AWG		3#1 + G	4#1 + G	#6 AWG	2 "