



*New York State Insurance Fund*  
*Procurement Unit*

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January 11, 2019

The attached (Exhibit 3 – Electrical Plan 2019-01-08) will serve as Amendment #1 to NYSIF's Invitation for Bids for Cabling and Fiber Installation, bid number 2018-101-RE. Material in this Amendment supersedes any contradictory material in the IFB.

Please note that the due date for the submission of bids **remains unchanged**.

**All bids are due 1/23/19, by 2:00 p.m.(eastern).**

Sincerely,

A handwritten signature in cursive script that reads "Alan Angelo".

Alan Angelo  
CMS-3

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
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ABBREVIATIONS

A	AMPERE
AC	ALTERNATING CURRENT, AIR CONDITIONER
ACC	AIR-COOLED CONDENSING UNIT
ACT	ABOVE COUNTER
AHC	ABOVE HUNG CEILING
AFF	ABOVE FINISHED FLOOR
ASYM	ASYMMETRICAL
AWG	AMERICAN WIRE GAUGE
BLDG	BUILDING
BO	BY OTHERS
BX	ARMORED CABLE
C	CONDUIT
CAT	CATALOG
CB	CIRCUIT BREAKER
CLG	CEILING
CKT	CIRCUIT
CU	COPPER
D	DEDICATED
DISC	DISCONNECT
DN	DOWN
DWG	DRAWING
EC	EMPTY CONDUIT, ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
EX, E	EXISTING DEVICE TO REMAIN
FBO	FURNISHED BY OTHERS
FL	FLOOR
G	GROUND
GFI	GROUND FAULT INTERRUPTER
HC	HUNG CEILING
HP	HORSEPOWER
Hz	HERTZ
IC	INTERRUPTING CAPACITY
J, JB	JUNCTION BOX
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
kcmil	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPERE
LP	LIGHTING PANEL
M	MAIN
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	OVERCURRENT
P	POLE, PUMP
PB	PULL BOX
PH	PHASE
PNL	PANEL
PP	POWER PANEL
RM	ROOM
RTU	ROOF TOP UNIT
SP	SINGLE POLE
SN	SOLID NEUTRAL
SW	SWITCH
SYM	SYMMETRICAL
SYS	SYSTEM
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UNF	UNFUSED
V	VOLT OR VOLTAGE
VA	VOLT AMPERE
W	WATT
WH	WATER HEATER
WT	WIRING TROUGH

ELECTRICAL SYMBOL LIST

WIRING DEVICES – RECEPTACLES

	DUPLEX RECEPTACLE, 20A, 2P, 3W, 125V – GROUNDING TYPE, WALL MOUNTED 18" AFF, UNLESS OTHERWISE NOTED.
	DOUBLE DUPLEX RECEPTACLE (QUAD), 20A, 2P, 3W, 125V – GROUNDING TYPE, WALL MOUNTED 18" AFF UNLESS OTHERWISE NOTED. 2 UNITS UNDER A 2 GANG PLATE.
	SIGNAL OUTLET. CEILING MOUNTED.
	DUPLEX RECEPTACLE, 20A, 2P, 3W, 125V – GROUNDING TYPE, CEILING MOUNTED, UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE WITH GROUND FAULT CIRCUIT INTERRUPTION, 20A, 2P, 3W, 125V – GROUNDING TYPE, WALL MOUNTED. AS NOTED ON DRAWINGS.
	DEDICATED DUPLEX RECEPTACLE, MOUNTED AS INDICATED ON THE DRAWING.
	SPECIAL PURPOSE RECEPTACLE OUTLET MOUNTED 18" AFF, UNLESS OTHERWISE NOTED. SIZE AND TYPE AS NOTED ON DRAWINGS.
	COMPUTER DUPLEX RECEPTACLE OUTLET MOUNTED ON ELECTRIFIED FURNITURE PARTITION.
	CONVENIENCE DUPLEX RECEPTACLE OUTLET MOUNTED ON ELECTRIFIED FURNITURE PARTITION.
	TELE/DATA OUTLET. MOUNTED 18" AFF (U.O.N). PROVIDE A TWO (2) BOX WITH A 3/4" EMT CONDUIT FROM OUTLET BOX TO 12" ABOVE HUNG CEILING. PROVIDE BUSHING ON CONDUIT END IN CEILING. INSTALL IN THE CONDUIT A TELEPHONE CABLE AND A PULLING CABLE FOR FUTURE COMPUTER CABLE. TELEPHONE CABLE TO BE EXTENDED FROM OUTLET TO TELEPHONE SERVICE ROOM IN CELLAR OR AS DIRECTED BY OWNER.
	WIRELESS ACCESS POINT

LOWER CASE LETTER DENOTES CONTROLLING SWITCH, NUMBER DENOTES CIRCUIT TO WHICH RECEPTACLE IS CONNECTED AT PANEL

ELECTRICAL SYMBOL LIST (CONT.)

RACEWAYS, FLOOR BOXES, AND POKE THRU

	POKE THRU OR FLOOR BOX
	POWER RACEWAY. SIZE AS REQUIRED
	DATA RACEWAY. SIZE AS REQUIRED
	POWER AND DATA FLOOR BOX

JUNCTION BOX, CEILING, FLOOR OR WALL MOUNTED, LETTER DESIGNATE EQUIPMENT SERVED FOR ADDITIONAL LETTER DESIGNATIONS REFER TO ABBREVIATION LIST

ELECTRICAL SYMBOL LIST (CONT.)

SECURITY EQUIPMENT

	SECURITY CAMERA
	ELECTRIC STRIKE
	REQUEST TO EXIT
	MAGLOCK
	CARD READER
	DATA RACK
	ACCESS CONTROL PANEL

ELECTRICAL DRAWINGS LIST

E-1

LEGENDS

E-2

FIRST FLOOR POWER PLANS

E-3

SECOND FLOOR POWER PLAN I

E-4

SECOND FLOOR POWER PLAN II

E-5

ROOF POWER PLANS

E-6

SPECIFICATIONS

			M.E.P. ENGINEERING P.C. 65 NASSAU AVENUE ISLIP, NY 11751 TEL.: 631-587-1999 FAX: 631-647-3543		PROJECT TITLE: <b>NEW YORK STATE INSURANCE FUND</b> 8 CORPORATE CENTER DRIVE MELVILLE NY, 11747	IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM ON THIS DRAWING AND/OR RELATED SPECIFICATION. ALL ALTERATIONS MUST BE MADE IN COMPLIANCE WITH THE NEW YORK STATE EDUCATION LAW. THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS HEREON ASSUMES NO RESPONSIBILITY FOR ANY SUCH ALTERATIONS OR RE-USE WITHOUT HIS WRITTEN CONSENT.	SEAL:	DRAWN BY: <b>JMW</b>	SCALE: <b>AS NOTED</b>
								DESIGNED BY: <b>GRC</b>	DATE: <b>12-14-18</b>
								CHECKED BY: <b>GRC</b>	PROJECT NO: <b>1507</b>
								DRAWING NO: <b>E-001.00</b> 1 OF 6	



**ELECTRIFIED FURNITURE NOTES:**

- 1 MAXIMUM EIGHT (8) CONVENIENCE DUPLEX RECEPTACLE OUTLETS PER CIRCUIT. (CIRCUIT NUMBER 1, 2, & 3)
- 2 MAXIMUM FOUR (4) DUPLEX RECEPTACLE OUTLETS PER CIRCUIT FOR COMPUTERS. (CIRCUIT NUMBER 4, 5, & 6)

**GENERAL NOTES:**

- 3 CONDUITS TO BE RUN CHASED IN FLOOR.  
POWER - 2#12+1#12G-3/4" C  
TELE/DATA - 1" C WITH DRAG WIRE
- 4 CONDUITS TO BE RUN CHASED IN FLOOR.  
POWER - (3#12+1#12G CONVENIENCE POWER OUTLETS)+(2#12+1#10N+1#12 COMPUTER POWER)-3/4" C  
TELE/DATA - 1-1/2" C WITH DRAG WIRE
- 5 ALL SECURITY DEVICE AND CAMERA WIRING SHALL BE RUN IN 3/4" CONDUIT. REFER TO SECURITY DRAWINGS FOR CONTROLLER AND TERMINATION LOCATIONS.
- 6 PROVIDE TWO (2) 4 PAIR (8 WIRE) CAT 6 CABLES PER TELE/DATA JACK. TWO (2) PER OFFICE FOR A TOTAL OF FOUR (4) CAT 6 CABLES PER OFFICE.
- 7 PROVIDE TWO (2) 4 PAIR (8 WIRE) CAT 6 CABLES PER WORKSTATION CUBICLE.
- 8 PROVIDE AT EACH PRINTER AND WIRELESS ACCESS POINT ONE (1) 4 PAIR (8 WIRE) CAT 6 CABLE AND ONE (1) RJ-45 JACK.

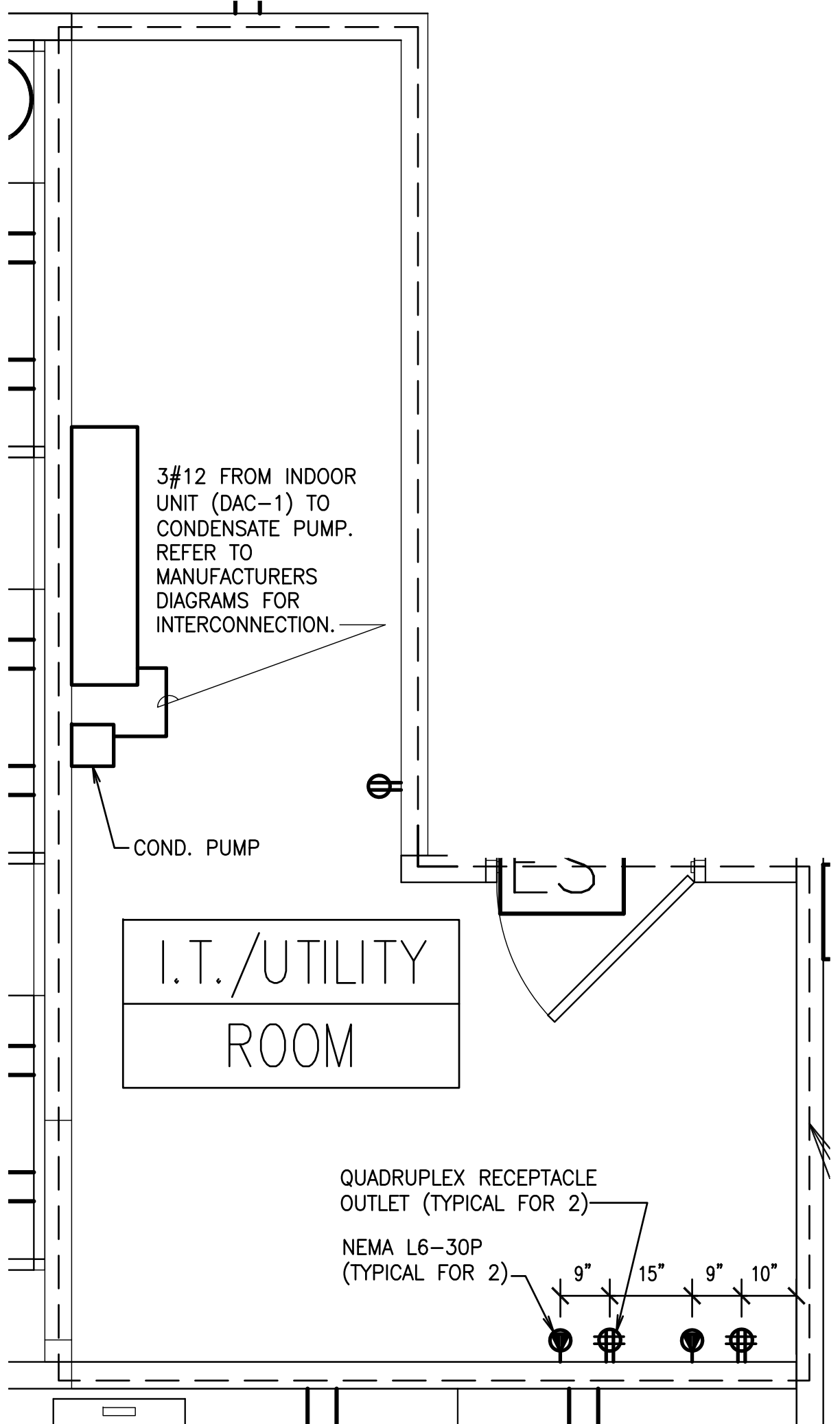
**FIRST FLOOR POWER PLAN**

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



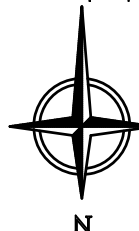
**IT ROOM NOTE:**

- 1 ALL IT ROOM OUTLETS FOR COMPUTER RACKS SHALL BE ON DEDICATED CIRCUITS.



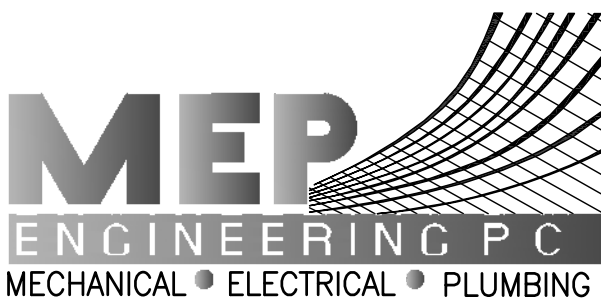
**FIRST FLOOR IT CLOSET 1 PART PLAN**

SCALE: 1/2"=1'-0"



REVISION	DATE	DESCRIPTION
2019-01-07	ISSUED FOR REVIEW	

M.E.P. ENGINEERING P.C.  
65 NASSAU AVENUE  
ISLIP, NY 11751  
TEL.: 631-587-1999  
FAX: 631-647-3543



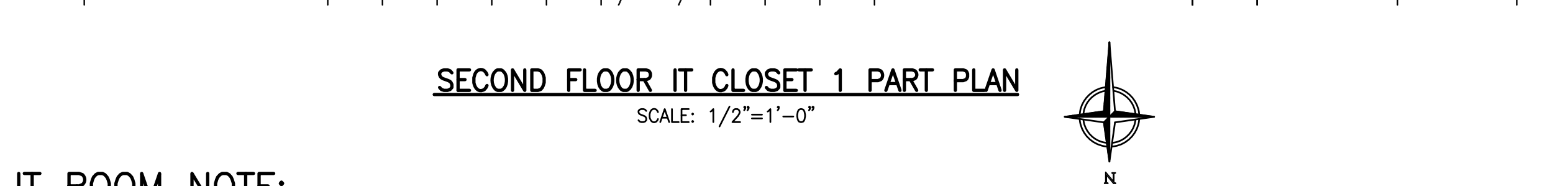
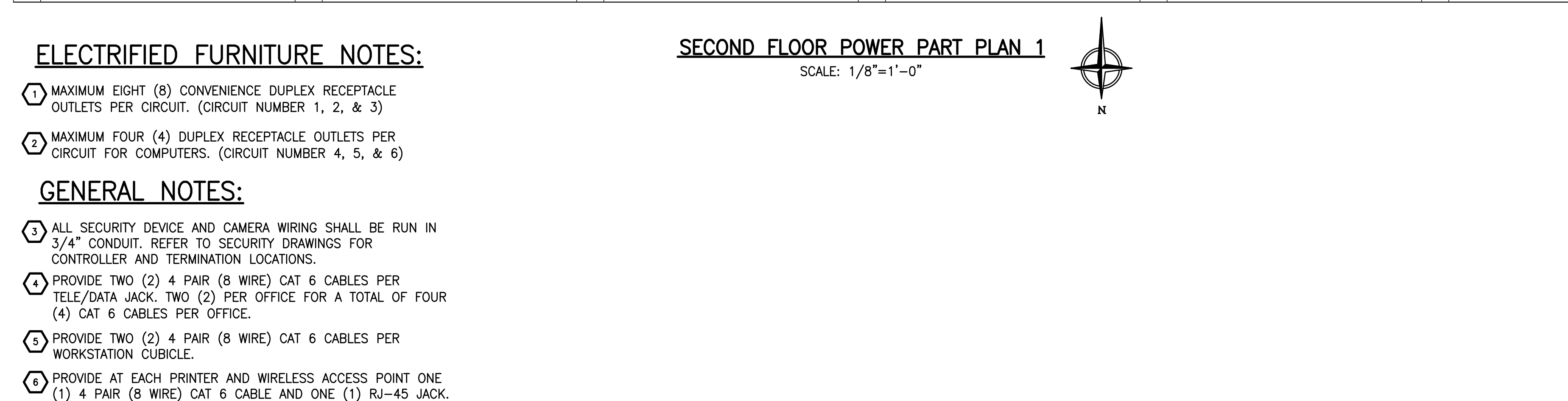
PROJECT TITLE:  
**NEW YORK STATE INSURANCE FUND**  
8 CORPORATE CENTER DRIVE  
MELVILLE, NY, 11747

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM ON THIS DRAWING AND/OR RELATED SPECIFICATION. ALL ALTERATIONS MUST BE MADE IN COMPLIANCE WITH THE NEW YORK STATE EDUCATION LAW. THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS HEREON ASSUMES NO RESPONSIBILITY FOR ANY SUCH ALTERATIONS OR RE-USE WITHOUT HIS WRITTEN CONSENT.

SEAL:


DESIGN BASED ON FLOOR PLAN DRAWINGS RECEIVED: 2018-12-14

DRAWN BY:	JMW	SCALE:	AS NOTED
DESIGNED BY:	GRC	DATE:	12-14-18
CHECKED BY:	GRC	PROJECT NO:	1507
DRAWING NO:	<b>E-002.00</b>		
	2 OF 6		



- 3 ALL SECURITY DEVICE AND CAMERA WIRING SHALL BE RUN IN 3/4" CONDUIT. REFER TO SECURITY DRAWINGS FOR CONTROLLER AND TERMINATION LOCATIONS.
- 4 PROVIDE TWO (2) 4 PAIR (8 WIRE) CAT 6 CABLES PER TELE/DATA JACK. TWO (2) PER OFFICE FOR A TOTAL OF FOUR (4) CAT 6 CABLES PER OFFICE.
- 5 PROVIDE TWO (2) 4 PAIR (8 WIRE) CAT 6 CABLES PER WORKSTATION CUBICLE.
- 6 PROVIDE AT EACH PRINTER AND WIRELESS ACCESS POINT ONE (1) 4 PAIR (8 WIRE) CAT 6 CABLE AND ONE (1) RJ-45 JACK.

- 1 ALL IT ROOM OUTLETS FOR COMPUTER RACKS SHALL BE ON DEDICATED CIRCUITS.
- 2 PROVIDE FIRE SUPPRESSION SYSTEM

		M.E.P. ENGINEERING P.C.				PROJECT TITLE:		IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER ANY ITEM ON THIS DRAWING AND/OR RELATED SPECIFICATION.		SEAL:		DRAWN BY: JMW		SCALE: AS NOTED	
		65 NASSAU AVENUE				<b>NEW YORK STATE INSURANCE FUND</b>  8 CORPORATE CENTER DRIVE  MELVILLE NY, 11747		ALL ALTERATIONS MUST BE MADE IN COMPLIANCE WITH THE NEW YORK STATE EDUCATION LAW. THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS HEREON ASSUMES RESPONSIBILITY FOR ANY SUCH ALTERATIONS OR RE-USE WITHOUT HIS WRITTEN CONSENT.		DESIGNED BY: GRC		DATE: 12-14-18			
		ISLIP, NY 11751						CHECKED BY: GRC		PROJECT NO: 1507					
2019-01-07		ISSUED FOR REVIEW						<b>E-003.00</b> 3 OF 6							
REVISION DATE DESCRIPTION		TEL.: 631-587-1999 FAX: 631-647-3543													

