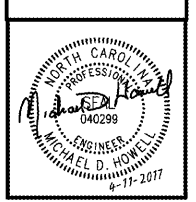
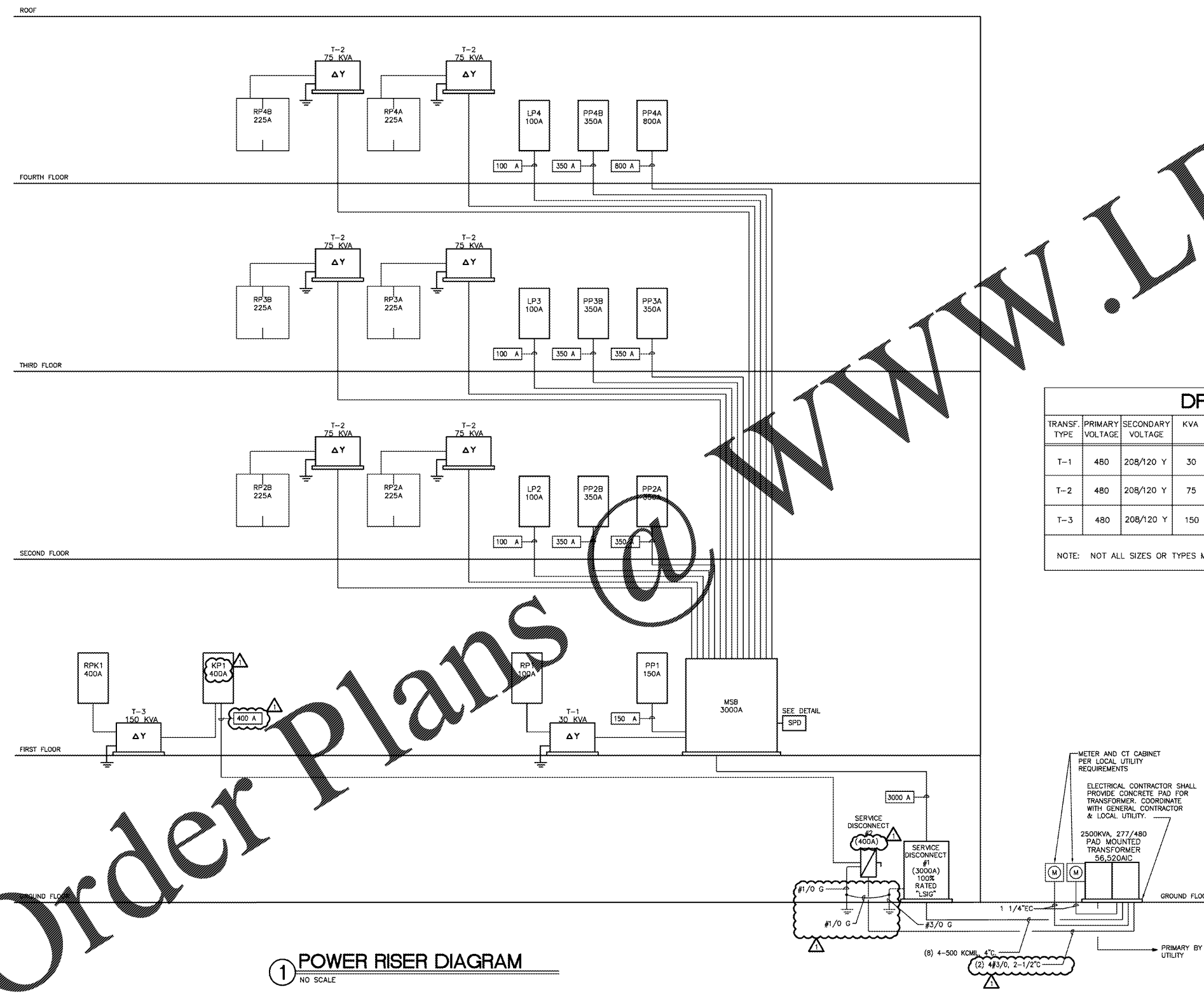


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- NOTES:
- ALL FEES ASSOCIATED WITH UTILITY COMPANY COORDINATION, INCLUDING PURCHASE/LEASE OF UTILITY TRANSFORMER, TRANSFORMER PRIMARY FEES, PAD, AND ALL ADMINISTRATIVE FEES SHALL BE INCLUDED AS PART OF THE E.C. CONTRACT. AT MINIMUM \$25,000.00 SHALL BE ESTIMATED FOR THE UNDERGROUND TRANSFORMER SERVICE FEE. ALL ADDITIONAL FEES SHALL BE ESTIMATED BASED PREVIOUS SCHOOL PROJECTS OF SIMILAR SIZE AND MAGNITUDE FOR THE LOCAL AREA.
 - PROVIDE 1 1/4" FROM GAS METER TO EMS (BAS) CONTROL PANEL WITH #18 AWG STRANDED PAIR WIRE. COORDINATE FINAL CONNECTION WITH LOCAL GAS UTILITY.
 - PROVIDE PERMANENT PLACARD LOCATED ABOVE MAIN SERVICE DISCONNECT. PLACARD SHALL INDICATED AVAILABLE FAULT CURRENT AND DATE OF CALCULATION.
 - PROVIDE 4" HIGH FORMED CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNT ELECTRICAL GEAR.
 - 3000A MAIN SERVICE DISCONNECT SHALL BE PROVIDED WITH "REL" MAINTENANCE MODE SWITCH.



DRY-TYPE TRANSFORMER SCHEDULE

TRANSF. TYPE	PRIMARY VOLTAGE	SECONDARY VOLTAGE	KVA	SQUARE "D" CAT. NO.	WIRING/BREAKER SIZE		GROUNDING ELECTRODE CONDUCTOR	SIZE
					PRIMARY	SECONDARY		
T-1	480	208/120 Y	30	30T3H	(3)-#8, #10 Gnd. -3/4" C. 50 AMP	(4)-#3, #8 Gnd. -1 1/2" C. 100 A	#8	25/14
T-2	480	208/120 Y	75	75T3H	(3)-#1, #6 Gnd. -1 1/2" C. 125 AMP	(4)-#4/0, #2 Gnd. -2 1/2" C. 225 A	#2	30/20
T-3	480	208/120 Y	150	150T3H	(3)-#4/0, #4 Gnd. -2 1/2" C. 225 AMP	(2)-SETS (4)-#3/0, #1/0 Gnd., -3" C. 400A	#1/0	41/32

NOTE: NOT ALL SIZES OR TYPES MAY BE USED.

FEEDER SCHEDULE FOR COPPER CONDUCTORS TO SPECIFIC BREAKER SIZE

BREAKER SIZE	THREE PHASE (COPPER) WIRE/CONDUIT SIZE	BREAKER SIZE	THREE PHASE (COPPER) WIRE/CONDUIT SIZE
20 A	4#12,1#12 G 3/4" C	225 A	4#4/0,1#4G,2-1/2" C.
25 A	4#10,1#10G 3/4" C	250 A	4-250KCMIL,1#4G,2-1/2" C.
30 A	4#10,1#10 G 3/4" C	300 A	4-350KCMIL,1#4G,3" C.
35 A	4#8,1#10 G 3/4" C	350 A	4-500KCMIL,1#3G,3-1/2" C.
40 A	4#8,1#10 G 3/4" C	400 A	(2) 4#3/0,1#3G,2" C.
45 A	4#6,1#10 G 1" C	450 A	(2) 4#4/0,1#2G,2-1/2" C.
50 A	4#6,1#10 G 1" C	500 A	(2) 4-250KCMIL,1#2G,2-1/2" C.
60 A	4#4,1#10 G 1-1/4" C	600 A	(2) 4-350 KCMIL,1#1G,3" C.
70 A	4#4,1#8 G 1-1/4" C	700 A	(2) 4-500 KCMIL,1#1/0G,3-1/2" C.
80 A	4#3,1#8 G 1-1/4" C	800 A	(3) 4-300 KCMIL,1#1/0G,3" C.
90 A	4#2,1#8 G 1-1/4" C	1000 A	(3) 4-400 KCMIL,1#2/0G,3-1/2" C.
100 A	4#1,1#8 G 1-1/2" C	1200 A	(4) 4-350 KCMIL,1#3/0G,3" C.
110 A	4#1,1#6 G 1-1/2" C	1600 A	(5) 4-400 KCMIL,1#4/0G,3-1/2" C.
125 A	4#1,1#6 G 1-1/2" C	2000 A	(6) 4-400 KCMIL,1#250 KCMIL G, 3-1/2" C.
150 A	4#1/0,1#6 G, 2" C	2500 A	(7) 4-500 KCMIL,1#350 KCMIL G,3-1/2" C.
175 A	4#2/0,1#6 G, 2" C	3000 A	(8) 4-500 KCMIL,1#400 KCMIL G,3-1/2" C.
200 A	4#3/0,1#6 G, 2-1/2" C	3500 A	(12) 4-500 KCMIL, 2#400 KCMIL G, 4" C.
		4000 A	(11) 4-500 KCMIL,1#500 KCMIL G,3-1/2" C.

1 POWER RISER DIAGRAM
 NO SCALE

WESTPOINT 2
DURHAM, NC

REVISIONS

NO.	DESCRIPTION	DATE
1	PERMIT COMMENTS	04/11/17

PROJECT: 1342
 DATE: 11/11/16
 DRAWN BY: ASA
 CHECKED BY: MDH

POWER RISER DIAGRAM
EO.8
 8 OF 24