

F

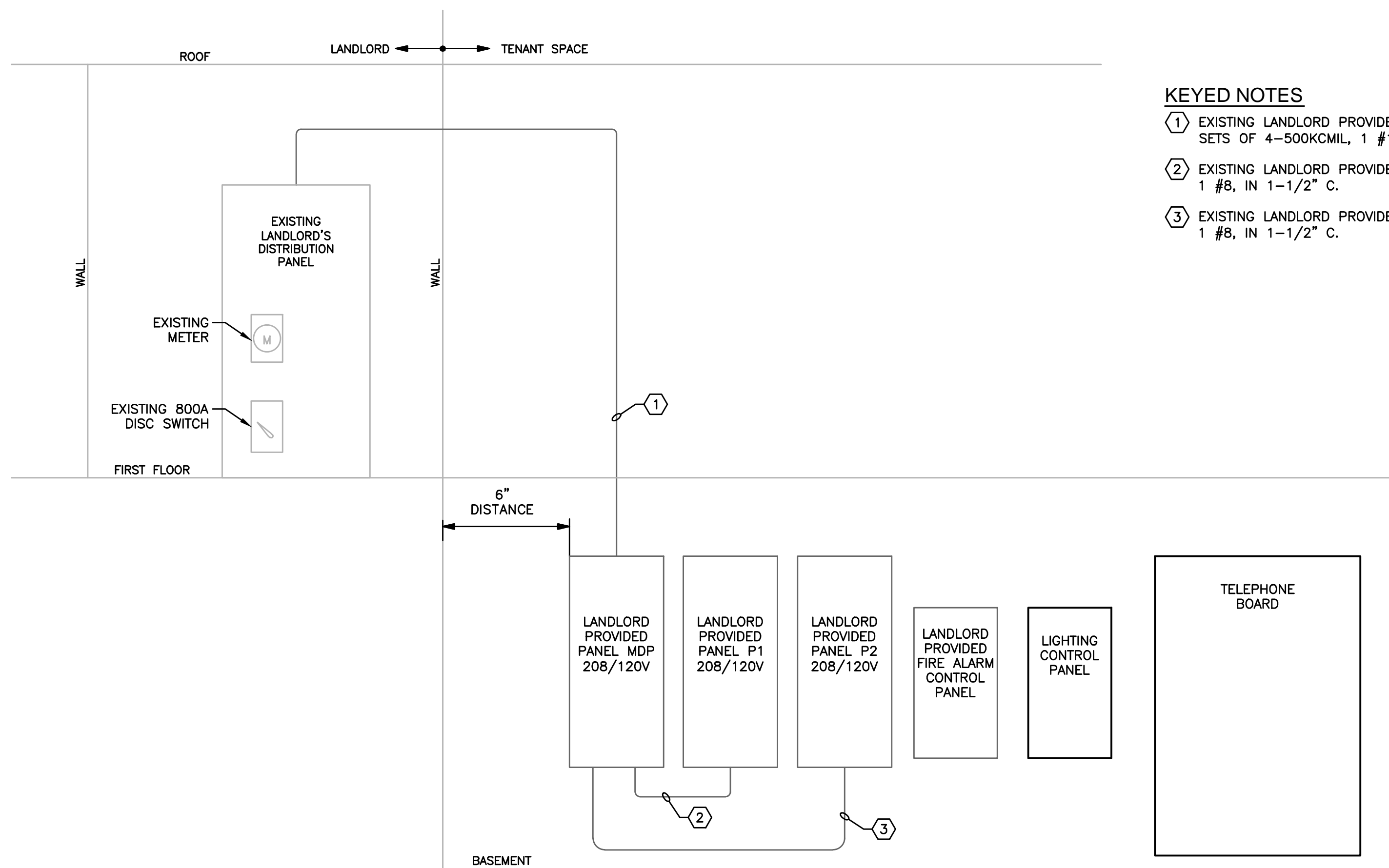
E

D

C

B

A



KEYED NOTES

- ① EXISTING LANDLORD PROVIDED AND INSTALLED (2) SETS OF 4-500KCMIL, 1 #1/0 GND., IN (2) 3" C.
- ② EXISTING LANDLORD PROVIDED AND INSTALLED 4 #1, 1 #8, IN 1-1/2" C.
- ③ EXISTING LANDLORD PROVIDED AND INSTALLED 4 #1, 1 #8, IN 1-1/2" C.

ELECTRICAL RISER DIAGRAM

1
NOT TO SCALE

ELECTRICAL LOAD SUMMARY						
DESCRIPTION	ACTUAL CONNECTED KVA	DEMAND FACTOR	ACTUAL DEMAND KVA	N.E.C. CONNECTED KVA	N.E.C. DEMAND FACTOR	N.E.C. DEMAND KVA
TRACK LIGHTING	11	1.25	13.8	160 ****	1.25	24
GENERAL LIGHTING	5.94	1.25	7.43	5.94	1.25	7.43
SHOW WINDOW LIGHTING ALLOW	----- ***	1.25	----- ***	0 KVA	200W / LF	0
GEN. PURPOSE RECEPTACLE (208V)	23.2	1.0 < 10KVA 0.5 > 10KVA	16.6	23.2	1.0 < 10KVA 0.5 > 10KVA	16.6
FIXED ELECTRIC SPACE HTG. (208V)	31.4	1.0 + 25% LARGEST	31.4	31.4	1.0 + 25% LARGEST	31.4
AIR CONDITIONING EQUIPMENT (208V)	23.5 *	1.0	23.5 *	23.5 *	1.0	23.5 *
ELECTRIC WATER HEATER	68.1 *	1.0 + 25% LARGEST **	68.1 *	68.1 *	1.0 + 25% LARGEST **	68.1 *
MISCELLANEOUS LOADS	1.5	1.25	1.88	1.5	1.25	1.88
TOTAL	7	1.0	7	7	1.0	7
	148		146	156		156

NOTES: * USE GREATER VALUE OF THE TWO CATEGORIES WHERE LOADS ARE NON-CONCURRENT
 ** 125% OF LARGEST COMPRESSOR MOTOR IN SYSTEM. APPLIES TO ONLY ONE UNIT.
 *** ACTUAL SHOW WINDOW LIGHTING IS INCLUDED IN TRACK AND GENERAL LIGHTING SECTIONS.
 **** TOTAL SUM OF CURRENT LIMITERS IN AMPS

MINIMUM FEEDER = $\frac{156 \text{ KVA} \times 1000}{208 \times 1.73} = 434 \text{ A}$
 ELECTRICAL SERVICE AMPACITY = 800 A @ 208V, 3 PH



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State of Registration MAINE
 Firm Registration No. N/A
 EEA Project No. 20166538

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 CHECKED BY: SMR

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 PROJECT #006-160335-00

ISSUED / REVISED	DATE
PRELIMINARY SET	09/08/16
LL COORDINATION SET	11/08/16
LL/PERMIT SET	11/21/16

ELECTRICAL RISER DIAGRAM

E-401