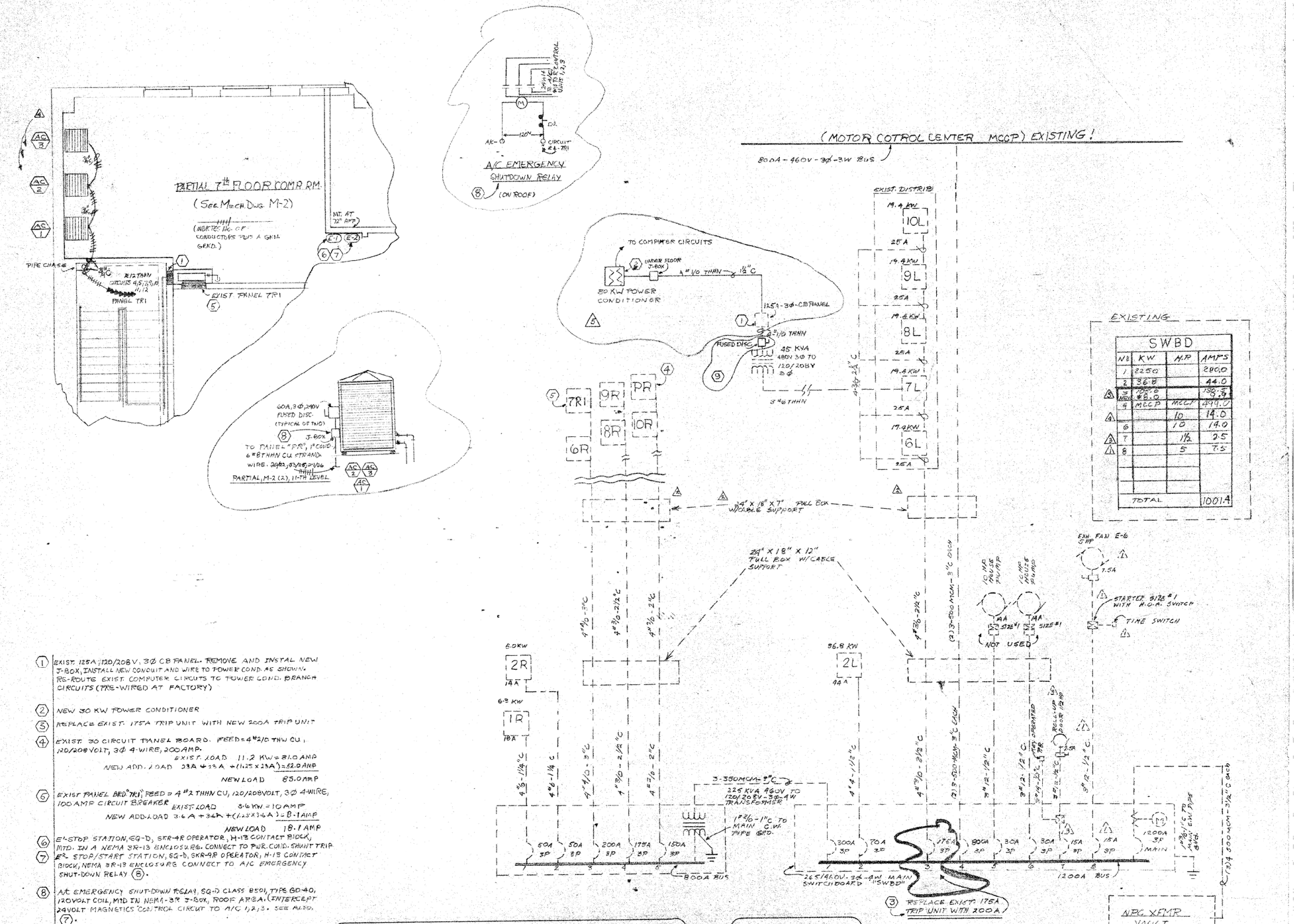

EXISTING

SWBD			
NO	KW	H.P.	AMPS
1	2250		280.0
2	36.8		44.0
3 NEW	105.0 #8.0		190.5 8.9
4	MCCP	MCCP	499.0
4		10	14.0
6		10	14.0
7		1½	2.5
8		5	7.5
TOTAL			1001.4

1. EXIST. 125A, 120/208V, 3Ø CB PANEL. REMOVE AND INSTAL NEW J-BOX, INSTALL NEW CONDUIT AND WIRE TO POWER COND. AS SHOWN. RE-ROUTE EXIST. COMPUTER CIRCUITS TO POWER COND. BRANCH CIRCUITS (PRE-WIRED AT FACTORY)
2. NEW 30 KW POWER CONDITIONER
3. REPLACE EXIST. 175A TRIP UNIT WITH NEW 200A TRIP UNIT
4. EXIST. 30 CIRCUIT PANEL BOARD. FEED = 4 #2/0 THW CU, 120/208 VOLT, 3Ø 4-WIRE, 200 AMP.
   EXIST. LOAD 11.2 KW = 31.0 AMP
   NEW ADD. LOAD 23A + 23A + (1.25 x 23A) = 52.0 AMP
   NEW LOAD 83.0 AMP
5. EXIST PANEL BRD. "TR1", FEED = 4 #2 THHN CU, 120/208 VOLT, 3Ø 4-WIRE, 100 AMP CIRCUIT BREAKER
   EXIST. LOAD 3.6 KW = 10 AMP
   NEW ADD. LOAD 3.6 A + 3.6A + (1.25 x 3.6A) = 8.1 AMP
   NEW LOAD 18.1 AMP
6. E-STOP STATION, SQ-D, SKR-4R OPERATOR, H-13 CONTACT BLOCK, MTD. IN A NEMA 3R-13 ENCLOSURE. CONNECT TO PWR. COND. SHUNT TRIP
7. E2 STOP/START STATION, SQ-D, SKR-9R OPERATOR, H-13 CONTACT BLOCK, NEMA 3R-13 ENCLOSURE CONNECT TO A/C EMERGENCY SHUT-DOWN RELAY (8).
8. A/C EMERGENCY SHUT-DOWN RELAY, SQ-D CLASS 8501, TYPE GO-40, 120 VOLT COIL, MTD IN NEMA-3R J-BOX, ROOF AREA. (INTERCEPT 24 VOLT MAGNETICS CONTROL CIRCUIT TO A/C 1,2,3. SEE ALSO, (7).
9. INSTALL NEW, 125A/250V/3Ø, FUSED DISCONNECT, NEMA-1 IN EXISTING CIRCUIT AT TRANSFORMER

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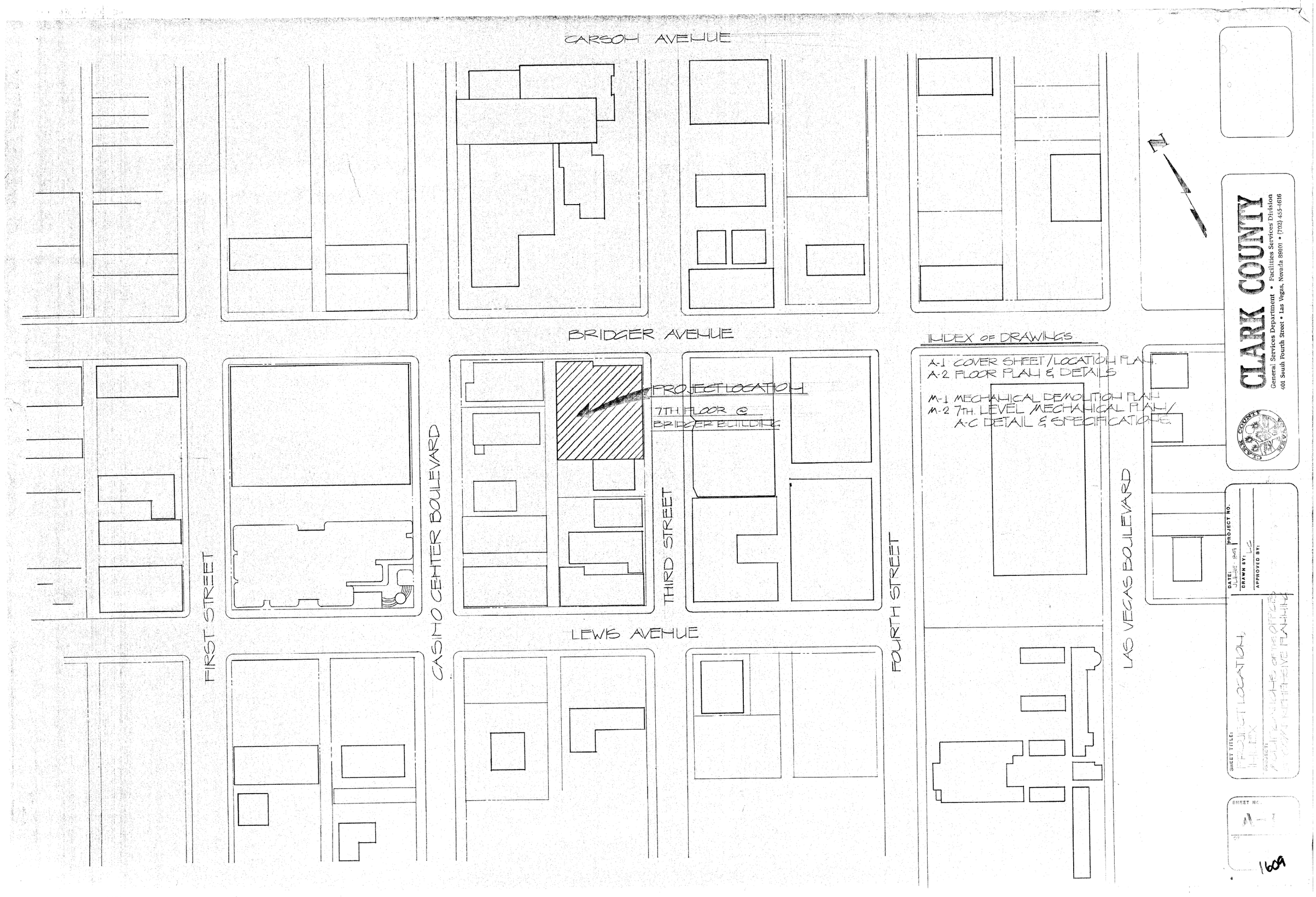
1609



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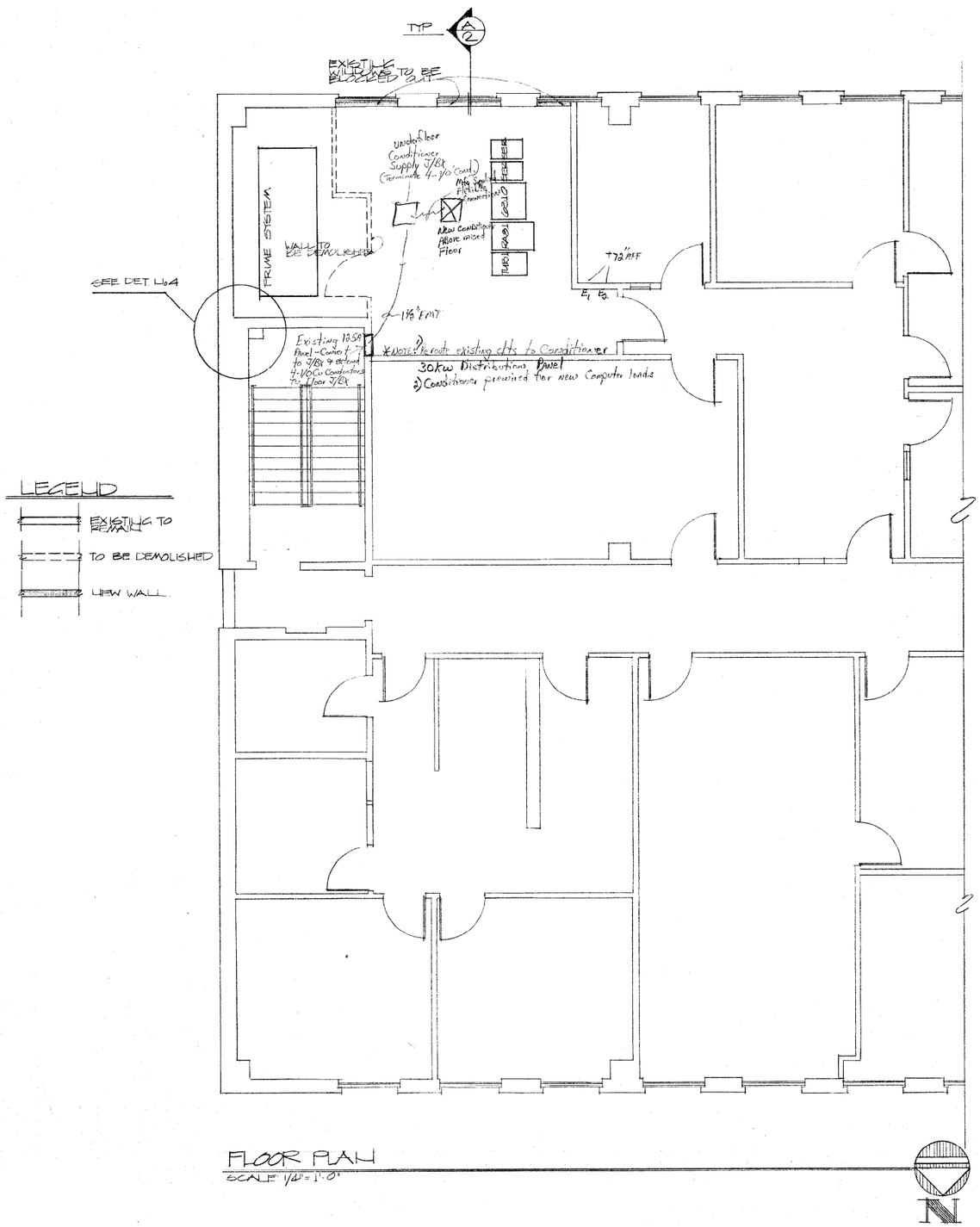
DATE: JUNE 89
DRAWN BY: LC
APPROVED BY:
PROJECT NO.

SHEET TITLE: PROJECT LOCATION, INDEX
PROJECT: MODIFICATIONS OF THE OFFICES OF COMPREHENSIVE PLANNING

SHEET NO. A-1

1609

New 30 Kw Power Conditioner: 10 KVA
Existing Load relocated 8 KVA
New Computer loads
18 KVA total



LEGEND

- EXISTING TO REMAIN
- TO BE DEMOLISHED
- NEW WALL

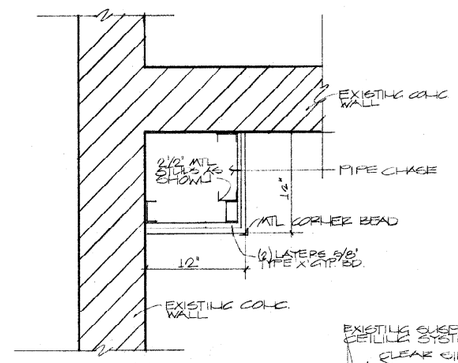
FLOOR PLAN

SCALE: 1/4" = 1'-0"

N

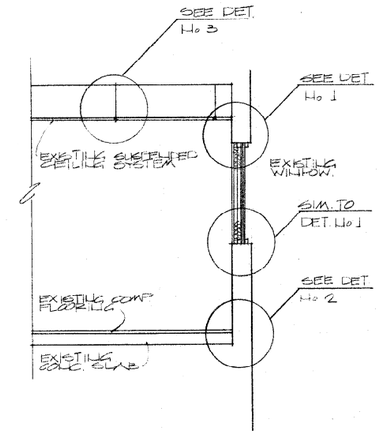
GENERAL NOTES

1. - ALL PERIMETERS AT FLOOR & CEILING INCLUDING ALL CEILING SUSPENSION SYSTEM, WALL ANGLES & TEED TO BE SEALED WITH CLEAR SILICONE SEALANT TO INSURE LEAK-REMOVAL OF CEILING TILES
2. - INSTALL WEATHER STRIP AND AIR TIGHT THRESHOLD @ DOORS.
3. - ALL WALL PENETRATIONS SHALL BE SEALED AIR TIGHT



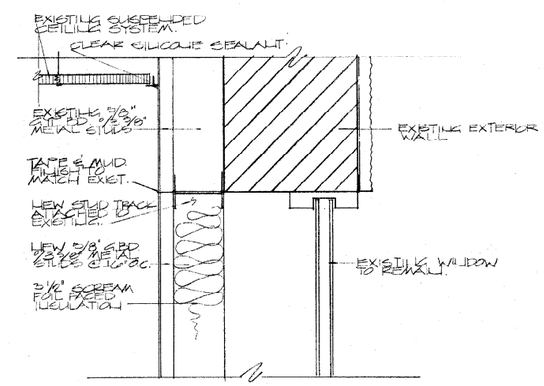
DETAIL No. 4

SC 1 1/2" = 1'-0"



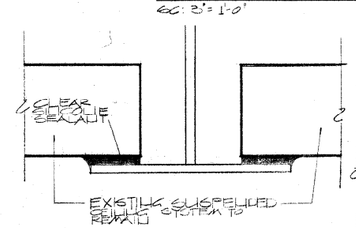
SECTION 'A'

SC: 3/8" = 1'-0"



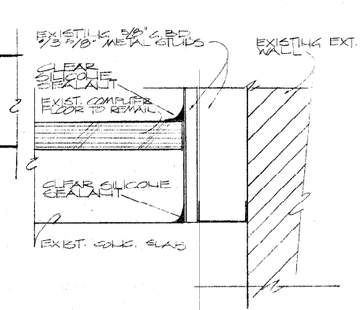
DETAIL No. 1

SC: 3" = 1'-0"



DETAIL No. 3

SC: 3" = 1'-0"



DETAIL No. 2

SC: 3" = 1'-0"

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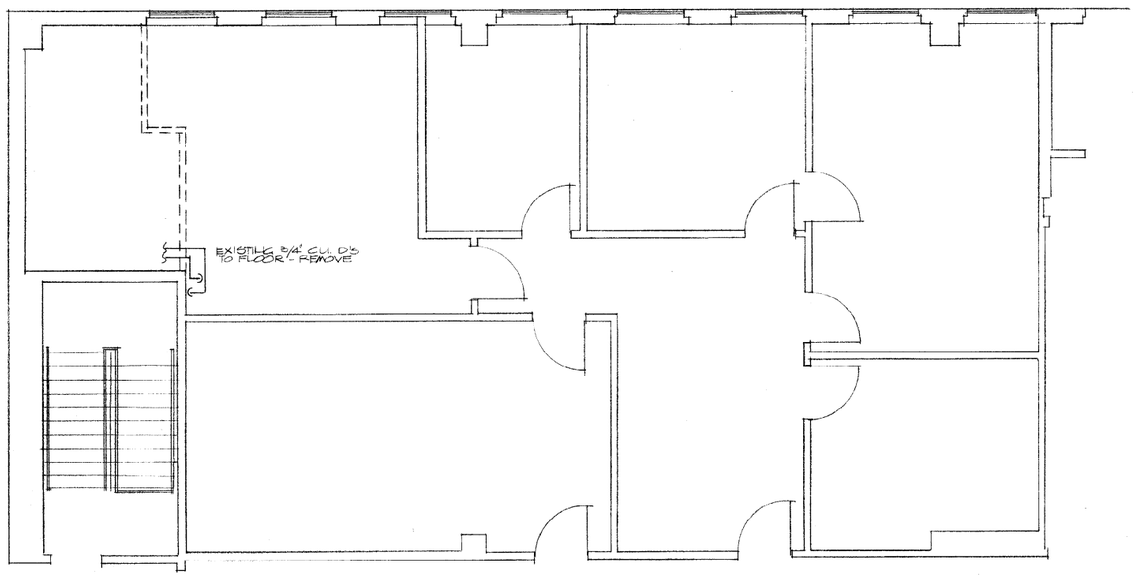
DATE: MAY-01
PROJECT NO.
DRAWN BY: LC
APPROVED BY:

SHEET TITLE: FLOOR PLAN & DETAILS

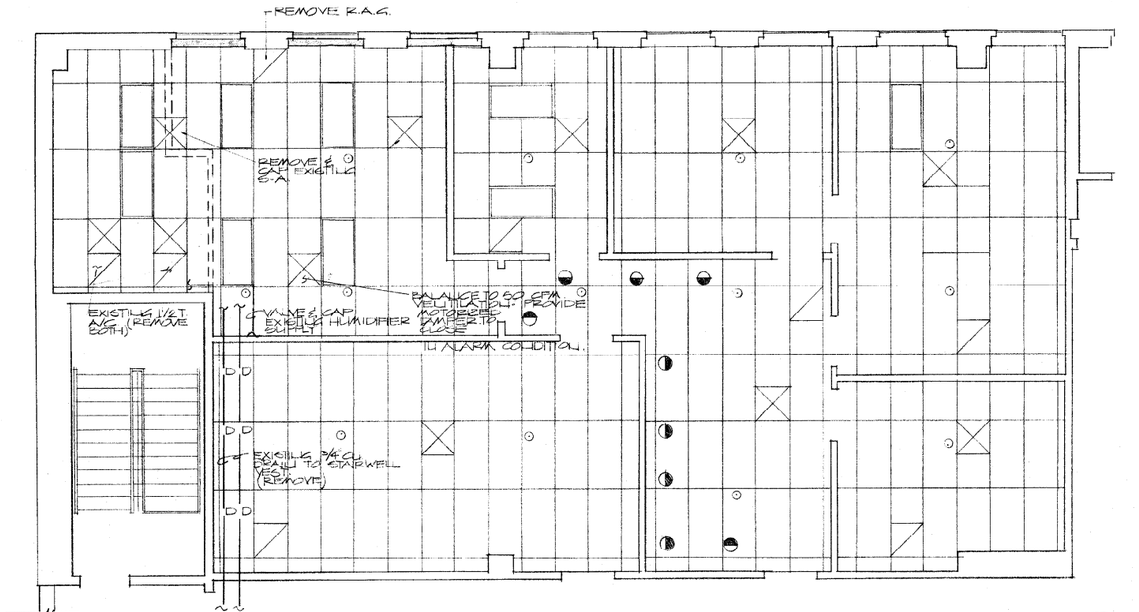
PROJECT: MODIFICATIONS TO THE OFFICES OF COMPREHENSIVE PLANNING

SHEET NO. A-2
OF 1609



MECHANICAL DEMOLITION FLOOR PLAN

SCALE: 1/4" = 1'-0"



REFLECTED CEILING PLAN / MECHANICAL DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

N

CLARK COUNTY

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SHEET TITLE: MECHANICAL DEMOLITION PLAN

PROJECT: MODIFICATIONS OF THE OFFICES OF COMPREHENSIVE PLANNING

DATE: JULY 89

PROJECT NO.

DRAWN BY: LC / PSA

APPROVED BY:

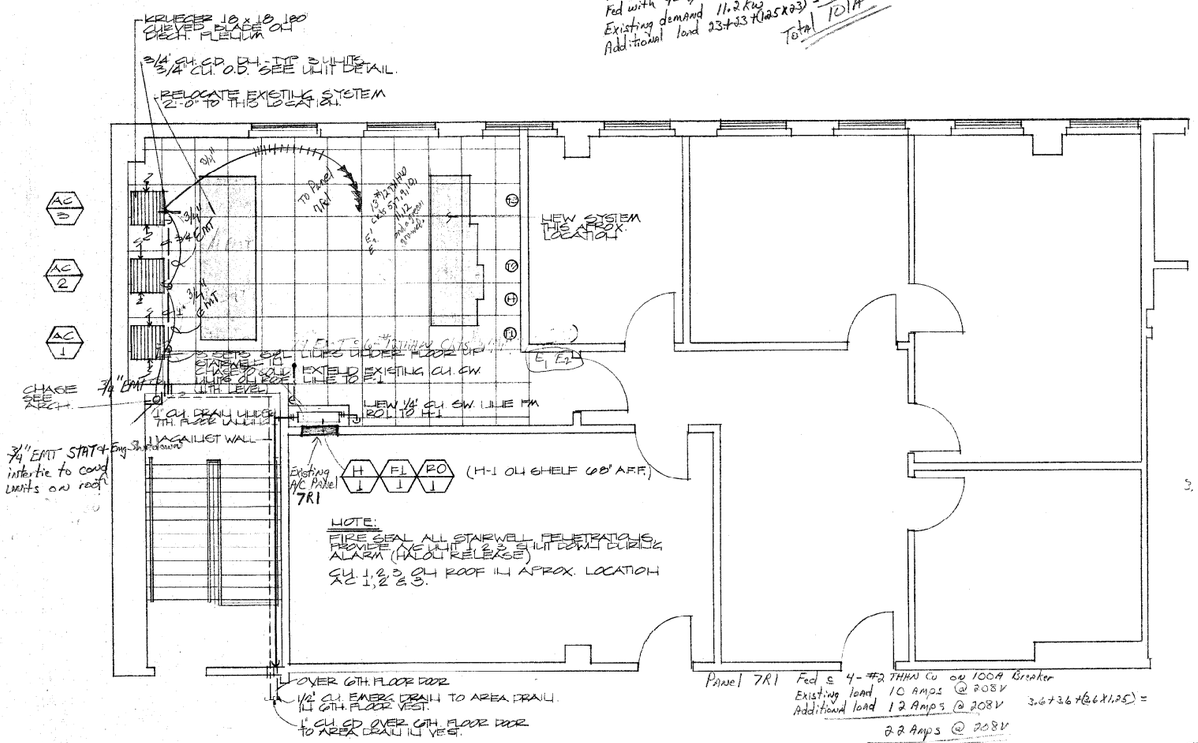
SHEET NO. M-1

OF 2

1609

Cond's on roof: 1" EMT TO PANEL PR (Penthouse) 3ea 2P 40A CKTS (20,22-24,26-23,25)

NOTES Panel "PR" (Existing 30ckt Panelboard located in Penthouse)
200A 120/208V 3ø 4w
Fed with 4-#3/0Cu
Existing demand 11.2 kw = 31A
Additional load 23+23+3(.25x23) = 75A
Total 101A



7TH. LEVEL MECHANICAL PLAN

SCALE: 1/4" = 1'-0"

AC 1 / AC 2 / AC 3 — CARRIER 38BLL036 COND. UNIT (ON ROOF) PROVIDE w/ LOW AMBIENT ELECTRONIC (MOTORMASTER) CONTROL WITH EXPANDED RANGE START KIT AND HIGH PRESSURE CUTOUT (LOW SIDE) PROVIDE W/ EXAC. SPEED 2P CAPACITOR SETS. SIZE FUSES PER MFR. RECOMMENDATIONS C.U. 2.1 FLA 208/230 V 1Ø AH. 5.0 FLA 208/230 V 1Ø.

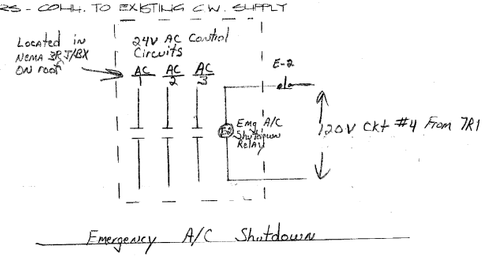
H 1 — HORTEC 3500 HUMIDIFIER 240 W 1.5 V 1Ø. 1/4" H2O CONN. 3/4" EMERGENCY DRAIN w/ AUTO. FLUSH AND INTAKE AIR FILTRATION.

FO 1 — BRUNER AQUA-GUARD R.O. SOFTENER w/ 2.7 CAL STORAGE. MODEL # DWS-2-T30 w/ COMPOSITE (TPC)

F 1 — BRUNER RC-10 W/ CF-10 FILTER PROVIDE 3 SPARE FILTERS - CONN. TO EXISTING C.W. SUPPLY FEEDS RC-1

E_1 Emergency Computer Shutdown (Connect Shunt trip Breaker in conditioner to E_1)

E_2 Emergency A/C Shutdown



Emergency A/C Shutdown

AIR CONDITIONING SPECIFICATION

1. SCOPE:
INCLUDES THE FURNISHING OF ALL MATERIALS, LABOR, TOOLS AND EQUIPMENT REQUIRED TO INSTALL THE COMPLETE AND WORKABLE HEATING AND AIR CONDITIONING SYSTEM AS INDICATED ON THE DRAWINGS, CONSISTING SUBMITTAL OF A/C UNITS, FAN COILS, CHILLS AND MISCELLANEOUS WORK AS REQUIRED.

2. DRAWINGS AND APPROVALS:
   A. THE DRAWINGS SHOW, IN DIAGRAMMATIC FORM THE ARRANGEMENT REQUIRED FOR THE INSTALLATION OF DUCTS, ETC. AND SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.
   B. THE INSTALLATION OF THE A/C SYSTEM SHALL BE MADE WITH THE APPROVAL OF THE ENGINEER AND SHALL MEET THE APPROVAL OF THE ENGINEER.
   C. SUBMIT FOR APPROVAL SIX COPIES OF DATA ON A/C UNITS, FAN COILS, AIR DISTRIBUTION.

3. ORDINANCES AND PERMITS:
   A. COMPLY WITH ALL LOCAL CODES AND ORDINANCES. ALL WORK SHALL MEET THE REQUIREMENTS OF THE UNIFORM MECHANICAL CODE.
   B. OBTAIN ALL PERMITS AND PAY ALL FEES REQUIRED.

4. WORKMANSHIP:
INSTALL ALL AIR CONDITIONING WORK IN A WORKMAN-LIKE MANNER IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES AND TO THE ARCHITECT'S COMPLETE SATISFACTION, CORRECT ALL UNSATISFACTORY WORK AS DIRECTED.

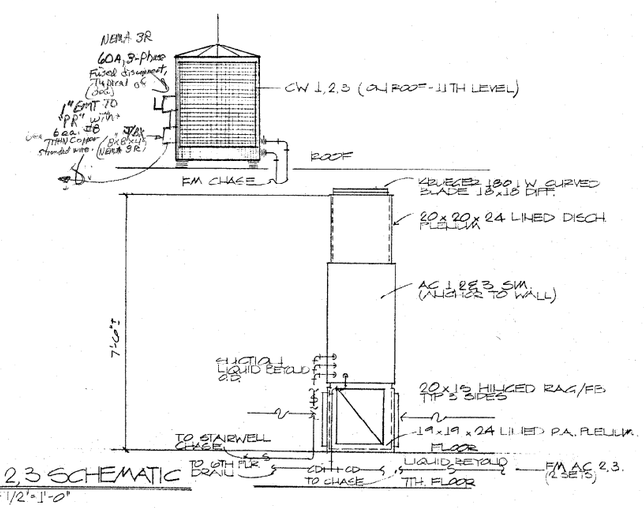
5. EQUIPMENT:
UNITS SHALL BE AS INDICATED ON THE PLANS, UNITS SHALL BE ARI RATED AND U.L. LISTED.

6. DUCT WORK:
SHALL COMPLY WITH A.S.H.R.A.E. STANDARDS. PROVIDE TURNING VANES IN ALL RECTANGULAR SHARP ELBOWS. LINE DUCTS ON ROOF WITH 2" WHITE COATED FIBERGLASS. WRAP DUCT IN CEILING WITH 2" FIBERGLASS SECURELY WIRED ON.

7. PROVIDE VIBRATION ISOLATION FOR ALL ROOF MOUNTED A/C EQUIPMENT AND FOR ALL CEILING CONCEALED

8. CLEAN UP:
THIS CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS RESULTING FROM THE A/C WORK AND LEAVE THE SITE IN A NEAT, CLEAN AND ACCEPTABLE CONDITION.

9. GUARANTEE:
ALL MATERIAL AND WORKMANSHIP INSTALLED UNDER THIS CONTRACT SHALL HAVE A ONE YEAR WARRANTY. ALL DEFECTS SHALL BE CORRECTED DURING THIS PERIOD AT NO COST TO THE OWNER.



AC 1,2,3 SCHEMATIC

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

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DATE: JULY 99
PROJECT NO.
DRAWN BY: PSA/LC
APPROVED BY:

SHEET TITLE: 7TH LEVEL MECHANICAL PLAN

PROJECT: ADDITIONS OF THE OFFICES OF THE BUSINESS PLANNING

SHEET NO. M-2

OF 2

1609

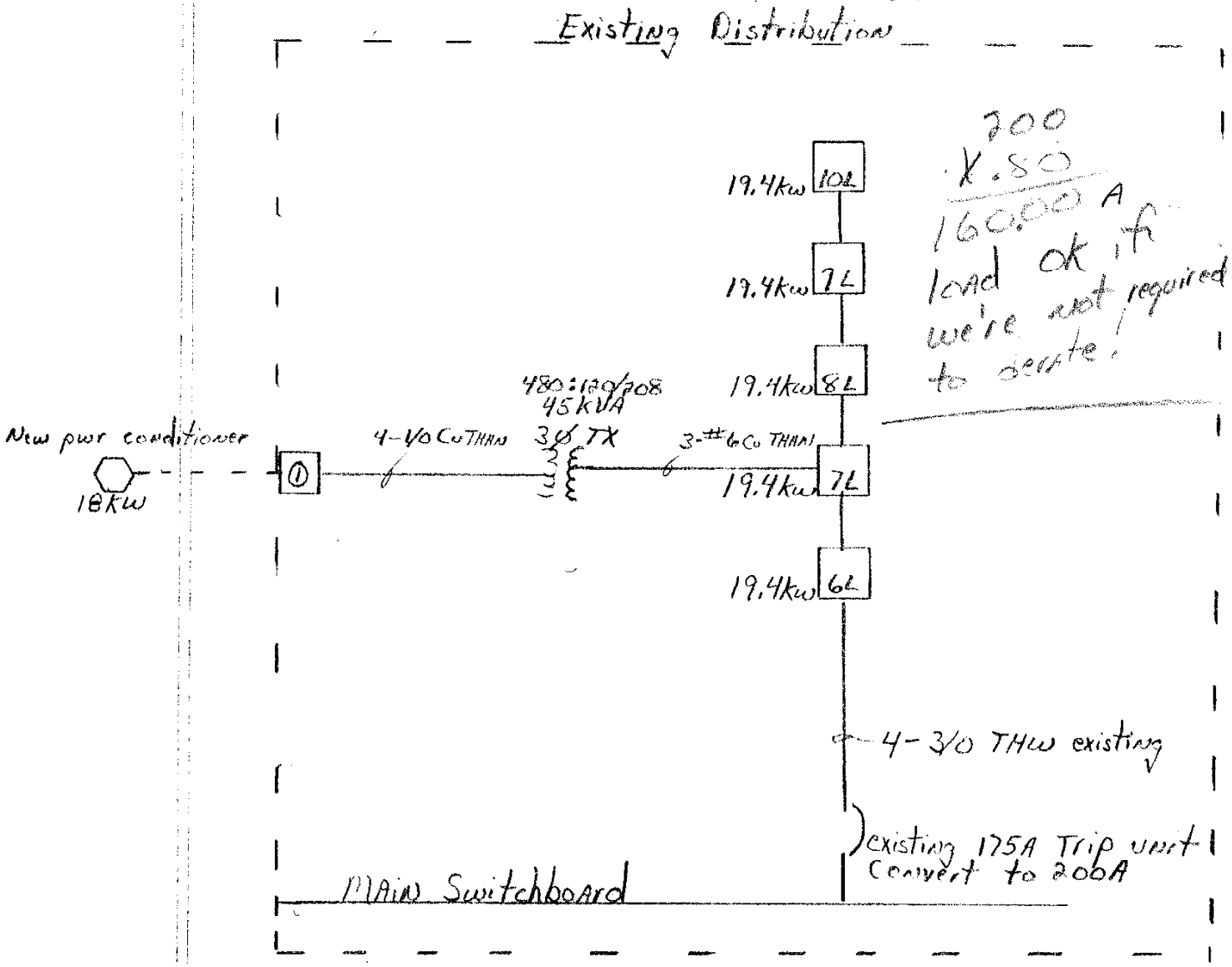
Existing demand 19.4kw X ~~X~~ 5 = 97kw Exist. Connected load

Additional load 18kw = 18kw

115 kw ÷ 480 X 1.73 = 139A NEW load

830.4

8000 ÷ 465 X 1.73 1340



200
X .80
160.00 A
load ok if we're not required to derate.

① Convert existing 100A 3Ø 4w 120/208V panel to J/BX & extend 4ea 1/0 Cu cond to feed new 30kw power Conditioner

⬡ New power conditioner for new computers 18 kw load

Comp Planning New Computer.

New Computer loads 8-29-89

digital EQUIPMENT CORPORATION

±8KVA 1±120

ELECTICAL AND ENVIRONMENTAL WORKSHEET

CUSTOMER: CLARK COUNTY INFO SYSTEM ADDRESS: _____ PREPARED BY BOB KLEIN

SYSTEM TYPE: 6210 "B" DEC #/QUOTE#/SER # : 001 / T60679 PROD LINE #: 111 COST CENTER: 7BK LOC: VEO

NOTE: The equipment listed in the following pages reflect the major frames and components which will require power, air handling, and floor space. Not all items on your quote or order may appear on this page due to the fact that they are an integral part of, or mount into one or more of the major part or component of the system.

DEVICE TYPE	WEIGHT LBS.	HEIGHT IN.	WIDTH IN.	DEPTH IN.	PWR CBL LENGTH	RECEPTACLE (NOTE A)	HUBBELL (NOTE B)	#PH	CIRC SIZE	KVA	WATTS	BTU/HR	~~VOLTAGE~~ AMPS
GZAMA-AE	700	60.5	30.5	30.0	180 IN	L21-20R		3	20A	1.92	1600	5461	16.0
RA82-DA	498	41.7	21.3	36.0	12 FT	L5-30R		1	30A	1.68	1126	3843	14.0
TU81E-BA	280	41.6	21.5	30.0	12 FT	L5-30R		1	30A	.48	384	1311	4.0
VT320-AA	—	9.87	21.0	19.34	6 FT	5-15R		1	15A	.06	50	171	0.5
LG31-A2	287	46.7	29.5	25.4	6 FT	5-15R		1	15A	.54	400	1365	4.5
DSRZA-BA	15	3.75	18.0	12.0	6 FT	5-15R		1	15A	.072	61	208	0.6
DELNI-AA	12	3.5	19.5	8.0	6 FT	5-15R		1	15A	.036	26	89	0.3
DSRVB-AA	12	4.63	19.25	12.63	6 FT	5-15R		1	15A	.036	31	106	0.3
DSRVB-AA	12	4.63	19.25	12.63	6 FT	5-15R		1	15A	.036	31	106	0.3
DSRVB-AA	12	4.63	19.25	12.63	6 FT	5-15R		1	15A	.036	31	106	0.3
DSRVB-AA	12	4.63	19.25	12.63	6 FT	5-15R		1	15A	.036	31	106	0.3

TOTAL KVA, WATTS, BTU/HR FOR LOCAL DEVICES TO BE LOCATED IN THE COMPUTER ROOM ----------> | | | |

TOTAL KVA, WATTS, BTU/HR FOR REMOTE DEVICES TO BE LOCATED OUTSIDE COMPUTER ROOM ---------> | | | |

NOTE A & B: NOT ALL RECEPTACLES REQUIRED ARE NEMA TYPES, OR HUBBELL TYPE RECEPTACLES. SEE SPECIAL NOTES AT BOTTOM OF EACH PAGE FOR REFERENCED VENDOR AND PART NUMBER OF SPECIAL PLUG/RECEPTACLES REQUIRED.

COMMENTS: _____