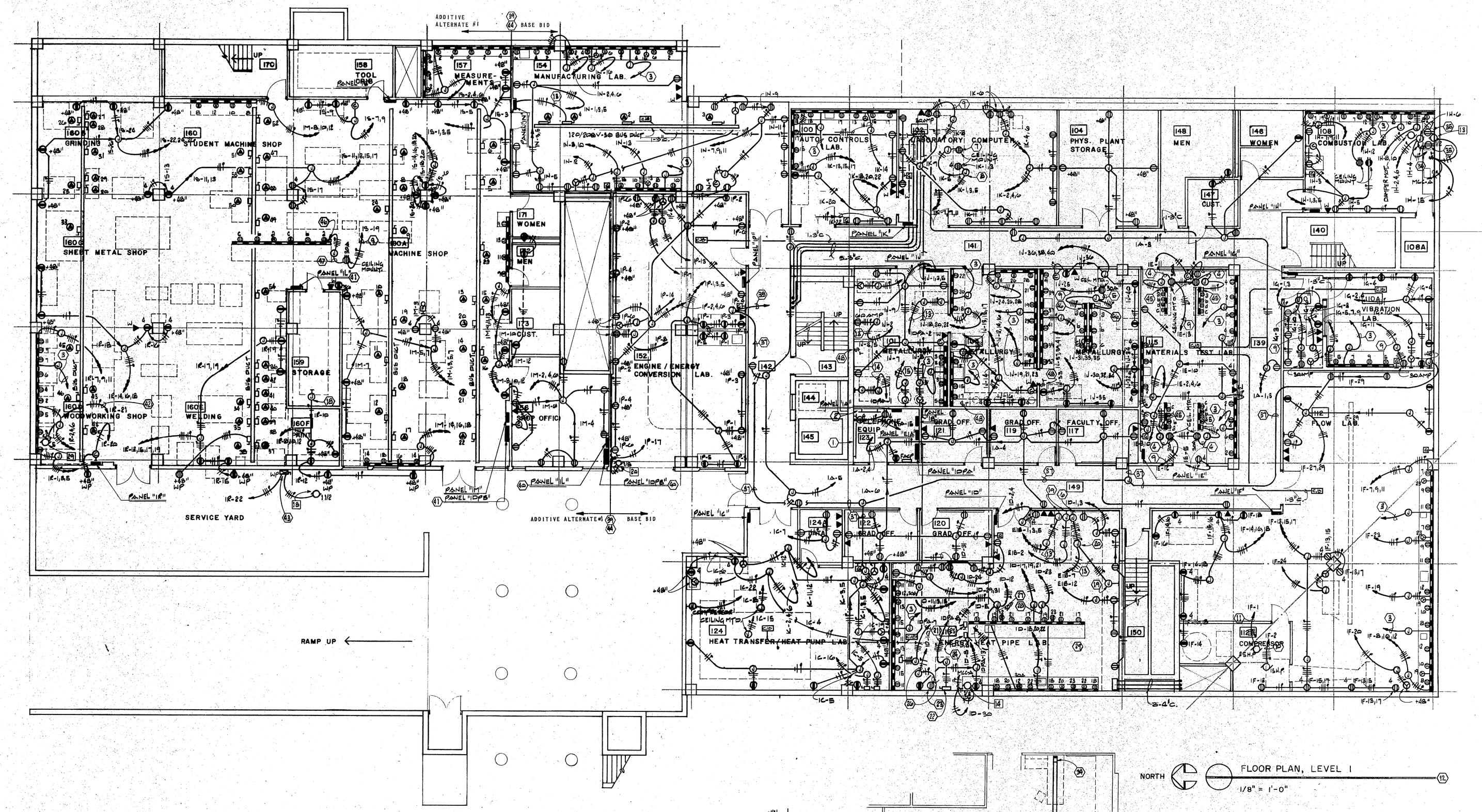
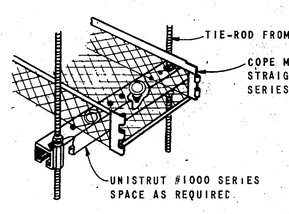


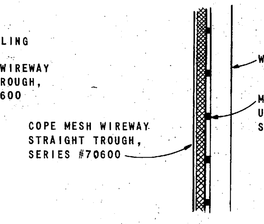
FLOOR PLAN, LEVEL I

1/8" = 1'-0"



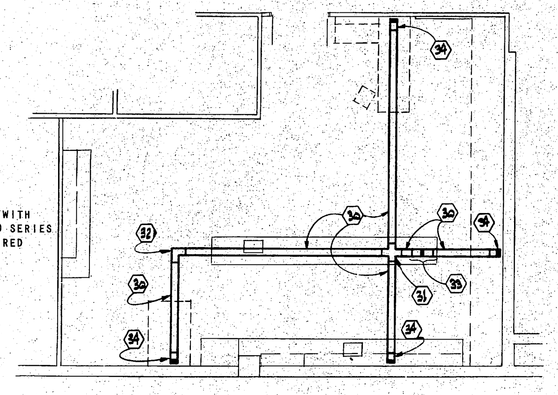
CEILING SUPPORT DETAIL

NO SCALE



WALL SUPPORT DETAIL

NO SCALE



ENERGY HEAT PIPE LAB-WIREWAY TROUGH PLAN

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

NOTES

1. 8'x8'x3/4" PLYWOOD TELEPHONE BACKBOARD PAINT WITH INSULATING PAINT. SEE TELEPHONE RISER DIAGRAM.
2. 4'x8'x3/4" PLYWOOD TELEPHONE BACKBOARD PAINT WITH INSULATING PAINT. SEE TELEPHONE RISER DIAGRAM.
3. EXTEND EMPTY 3/4" CONDUIT FROM WIREMOLD TO POWER ELECTRICAL PANEL SERVING THE AREA, FOR FUTURE USE.
4. #10-5 CONDUCTOR TYPE "SO" CABLE FROM 30A, 3P, 5WIRE CEILING RECEPTACLE TO JUNCTION BOX MOUNTED ON EQUIPMENT. SEE "TYPE SO" CORD SUPPORT DETAIL-B" FOR ADDITIONAL INFORMATION.
5. #10-5 CONDUCTOR TYPE "SO" CABLE FROM 30A,3P 5 WIRE CEILING RECEPTACLE TO JUNCTION BOX MOUNTED ON EQUIPMENT. SEE "TYPE SO" CORD SUPPORT DETAIL-A" FOR ADDITIONAL INFORMATION. CEILING RECEPTACLE SHALL BE 30A,3P 5 WIRE RECEPTACLE RATHER THAN 20A,3P, 5 WIRE AS DETAILED.
6. LOOP CONDUCTORS THROUGH SURFACE MOUNTED JUNCTION BOX (LEAVING 18 INCHES OF CONDUCTORS IN BOX) AND 3ACK UP TO CEILING MTD. J.B. AND FINALLY TO JUNCTION BOX ON ADJACENT WALL.
7. 2#12 1#12 GND IN 1/2" CONDUIT FROM CEILING TO DUPLEX RECEPTACLE MOUNTED ON EQUIPMENT.
8. 3#12 1#12 GND IN 1/2" CONDUIT FORM CEILING JUNCTION BOX TO FOUR PLEX RECEPTACLE MOUNTED ON EQUIPMENT.
9. 4#10, 1#10GND-3/4"C.
10. 3#6; 1#10GND-1"C.
11. 3#3, 1#6GND.1 1/4"C.
12. OUTLETS SHALL NOT BE MOUNTED BACK TO BACK ON COMMON WALL.
13. 4#6, 1#10GND-1 1/4"C.
14. 4#1, 1#6GND-2"C.
15. 2#4, 1#6GND-1"C.
16. 60AMP 3POLE 4WIRE FUSED DISCONNECT SWITCH WITH 60AMP FUSETRONS. SUPPLY SPARE 30AMP AND 20AMP FUSES FOR SAME DISCONNECT.
17. 60AMP 2POLE 3WIRE FUSED DISCONNECT SWITCH WITH 60AMP FUSETRONS. SUPPLY SPARE 30AMP AND 20AMP FUSES FOR SAME DISCONNECT.
18. WIRE PAINT BOOTH FROM JUNCTION BOX.
19. TERMINATE CONDUCTORS IN SURFACE MOUNTED JUNCTION BOX WITH ADDITIONAL 18 INCHES OF CONDUCTORS.
20. 8#6, 2#10GND-1 1/2"C.
21. 4#1/0, 1#6GND-2"C.
22. 200AMP 3POLE FUSED DISCONNECT SWITCH IN NEMA 1 SURFACE MOUNTED ENCLOSURE. FUSES SHALL BE 150AMP DUAL ELEMENT FUSES. WALL MOUNT ABOVE COUNTER OR AT 48" AFF.
23. 120V, 1Ø 30AMP GROUNDED RECEPTACLE FOR LEAK DETECTOR. MOUNT AT 48" AFF. AND VERIFY EXACT LOCATION IN FIELD.
24. 100AMP 3POLE FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE, BOTTOM FED. MOUNT ON END OF TEST BENCH WITH 100A DUAL ELEMENT FUSES.
25. 30AMP 3POLE FUSED DISCONNECT SWITCH IN NEMA 1 ENCLOSURE, BOTTOM FED. MOUNT ON END OF TEST BENCH WITH 30A DUAL ELEMENT FUSES.
26. 2#10, 1#10GND-3/4"C.
27. EXTEND 5#10 IN 3/4" FLEXIBLE CONDUIT FORM CEILING JUNCTION BOX DOWN CABLE TRAY TO WIREMOLD ON COUNTER.
28. EXTEND 5#12 IN 3/4" FLEXIBLE CONDUIT FROM CEILING JUNCTION BOX DOWN CABLE TRAY TO WIREMOLD ON COUNTER.
29. SEE LIGHTING PLAN FOR CABLE TRAY LAYOUT IN THIS ROOM.
30. COPE MESH WIREWAY STRAIGHT TROUGH, SERIES #70600, SUSPENDED FROM CEILING 9"AFF. SEE CEILING SUPPORT DETAIL THIS SHEET.
31. COPE MESH WIREWAY, SERIES #70600, FLAT CROSS.
32. COPE MESH WIREWAY, SERIES #70600, 90° FLAT ELBOW.
33. COPE MESH WIREWAY, SERIES #70600, VERTICAL TEE WITH SERIES #70600 STRAIGHT TROUGH TO WORK BENCH BELOW. ANCHOR STRAIGHT TROUGH TO WORK BENCH.
34. COPE MESH WIREWAY, SERIES #70600, 90° OUTSIDE RISER ELBOW WITH SERIES #70600 STRAIGHT TROUGH RAN DOWN WALL TO WORK AREA BELOW. SEE WALL SUPPORT DETAIL THIS SHEET.
35. MOUNT DUPLEX RECEPTACLE IN FUME HOOD. WIRE AS SHOWN.
36. WIRE LIGHTS AND TOGGLE SWITCH IN FUME HOOD.
37. EMPTY 3/4"C. WITH PULLWIRE FOR FUTURE 480V SERVICE.
38. EMPTY 3/4"C. WITH PULLWIRE FOR FUTURE 480V SERVICE DOWN TO BASEMENT.
39. ALL WORK TO THE RIGHT SHALL BE CONSIDERED INCLUDED IN THE BASE BID OF THIS PROJECT. ALL WORK TO THE LEFT SHALL BE INCLUDED IN THE ADDITIVE ALTERNATE #1 BID UNLESS OTHERWISE INDICATED. REFER TO BID FORMS FOR FUTHER INFORMATION.
40. LOCATION OF PANEL UNDER BASE BID. SEE NOTE 41 FOR LOCATION OF PANEL IF ADDITVIE ALTERNATE #1 IS ACCEPTED.
41. LOCATION OF PANEL IF ADDITIVE ALTERNATE #1 IS ACCEPTED.
42. 3#10, 1#10GND-3/4"C.
43. COMBINATION TYPE, NEMA SIZE 1, MAGNETIC STARTER, 30A-3P SWITCH WITH 9 AMP FUSETRONS, H-O-A SELECTOR SWITCH, RED PILOT LIGHT, START BUTTON, AND 2 N.O. & 1 N.C. AUXILIARY CONTACTS. SEE CONTROL LADDER DIAGRAMS FOR ADDITION INFORMATION. WEATHER PROOF.
44. REFER TO LEVEL I LIGHTING FLOOR PLAN FOR POWER REQUIREMENTS OF PARTIAL BASE BID FLOOR PLAN AREA.
45. THREE SINGLE POLE, AND ONE THREE POLE 20 AMP CIRCUIT BREAKERS IN WIREMOLD. SEE "TYPE "SO" CORD SUPPORT DETAIL-B".
46. THREE SINGLE POLE 20A CIRCUIT BREAKERS IN WIREHOLD. SEE "TYPE "SO" CORD SUPPORT DETAIL B".
47. #10-5 CONDUCTOR TYPE "SO" CABLE FORM 30A,3P, 5WIRE CEILING RECEPTACLE TO JUNCTION BOX MOUNTED ON EQUIPMENT. SEE "TYPE "SO" CORD SUPPORT DETAIL-A FOR ADDITIONAL INFORMATION.
48. CANOPY HOOD CONTROL. SEE CONTROL LADDER DIAGRAMS. VERIFY EXACT LOCATION IN FIELD.

U.N.M. MECHANICAL ENGINEERING BLDG.

LEVEL I POWER PLAN

STATE OF NEW MEXICO — JESSE A. PACHECO, JR. — GRAHAM-LEE GRAHAM — NO. 340 — REGISTERED ARCHITECTS

REGISTERED PROFESSIONAL ENGINEERS — 1632 — BHL & LOPEZ — 1749 — STATE OF NEW MEXICO

pacheco and graham · architects

project	date	sheet
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BASE B/S-8 B-7

TITLE