

STATE OF VERMONT
 Department of Buildings
 and General Services
 Agency of Administration
 Montpelier, Vermont



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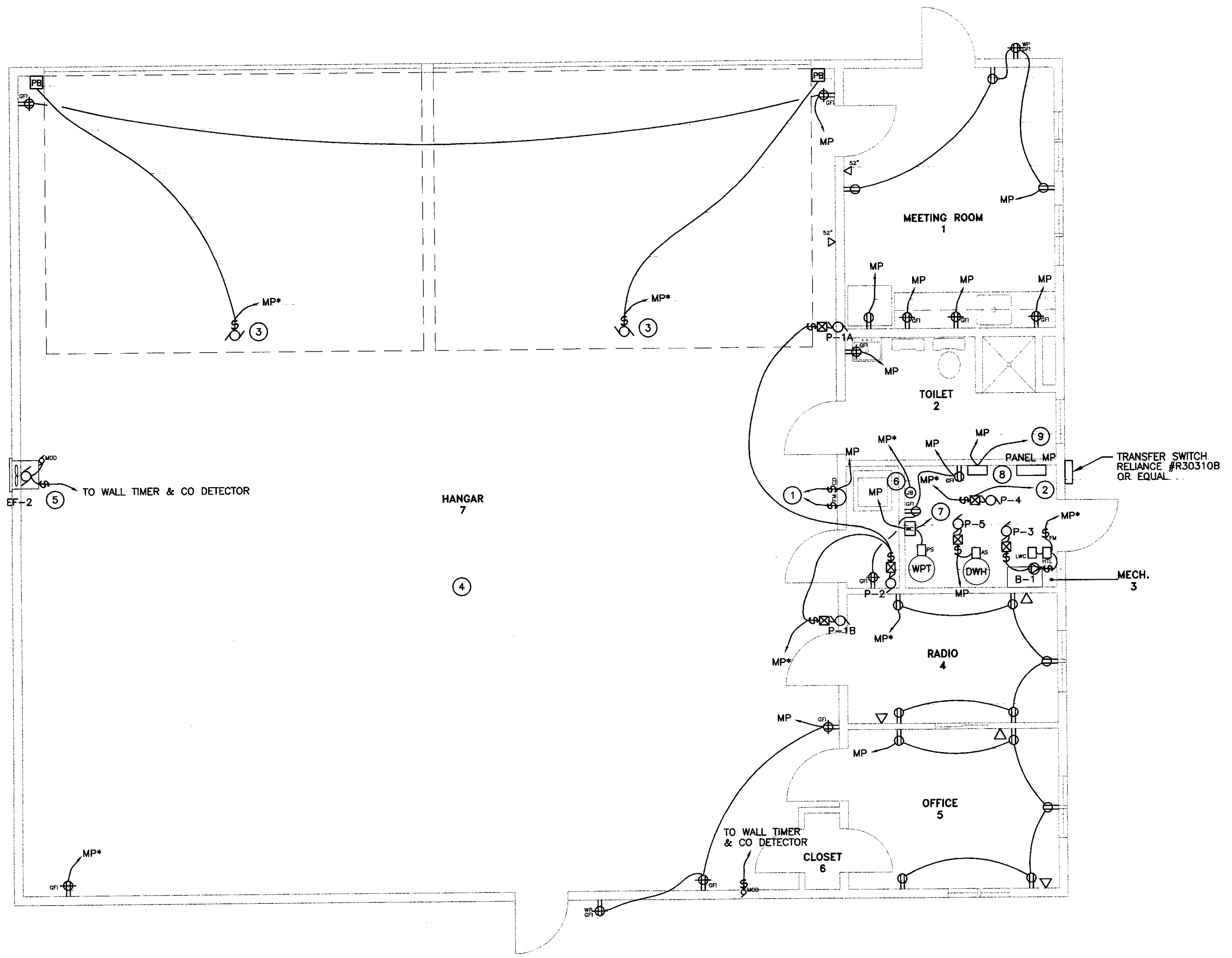
AGENCY OF TRANSPORTATION
 CALEDONIA COUNTY STATE
 AIRPORT

REVISIONS
 SCALE: AS SHOWN
 DATE: JULY 2005
 DRAWN BY: ASC
 APPR. BY: E. E. P.

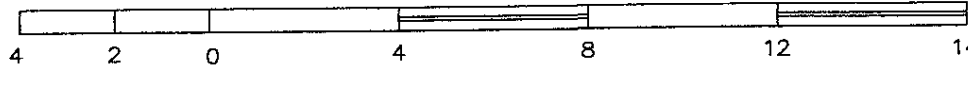
NEW HANGAR
 FOR CIVIL
 AIR PATROL

ELECTRICAL
 PLAN
 E-1
 1 OF 3

LYNDONVILLE VERMONT



ELECTRICAL POWER PLAN
 SCALE: 1/4" = 1'-0"
 HORIZONTAL SCALE IN FEET



| ELECTRICAL LEGEND | |
|-------------------|---|
| | FLUORESCENT FIXTURE |
| | LIGHT FIXTURE |
| | EXIT LIGHT |
| | EMERGENCY LIGHT |
| | SWITCH - SINGLE POLE |
| | SWITCH - SINGLE POLE WITH GAS BURNER PLATE |
| | SWITCH - 3-WAY |
| | SWITCH - 4-WAY |
| | SWITCH - TIMER, INTERMATIC FF60M |
| | SWITCH - OCCUPANCY SENSOR |
| | SWITCH - FAN SPEED CONTROL, DAYTON 4C929 |
| | FIREMATIC SWITCH, PROVIDED AND INSTALLED BY EC |
| | PUSH-BUTTON STATION, PROVIDED BY ES, WIRED BY EC. |
| | MOTOR STARTER PROV. BY MC, INSTALLED BY EC |
| | SAFETY DISCONNECT PROV. AND INSTALLED BY EC. |
| | PANEL |
| | BRANCH CIRCUIT |
| | JUNCTION BOX |
| | DUPLEX RECEPTACLE |
| | DUPLEX RECEPTACLE - COUNTER HEIGHT |
| | DUPLEX RECEPTACLE-GFCI PROTECTED |
| | SPECIAL PURPOSE OUTLET, REFER TO SCHEDULE. |
| | WP WEATHERPROOF, NEMA 3R RATED |
| | AFF ABOVE FINISH FLOOR |
| | EC ELECTRICAL CONTRACTOR (DIVISION 16) |
| | MC MECHANICAL CONTRACTOR (DIVISION 15) |
| | GC GENERAL CONTRACTOR |
| | ES EQUIPMENT SUPPLIER |
| | TYP. TYPICAL OF ALL |
| | LEC LYNDONVILLE ELECTRIC COMPANY |
| | NEC NATIONAL ELECTRIC CODE |
| | MTS MANUAL TRANSFER SWITCH |
| | HTL HIGH TEMP. LIMIT SWITCH, PROV. BY MC, WIRED BY EC |
| | LWC LOW-WATER CUTOFF, PROV. BY MC, WIRED BY EC |
| | MOTOR |
| | MOD MOTOR-OPERATED DAMPER |
| | PS PRESSURE SWITCH |
| | PHONE LOCATION (4" SQUARE BOX WITH 3/4" CONDUIT TO TELEPHONE TERMINATION AREA. PROVIDE EXTENSION RINGS (MUD RINGS) AS REQUIRED. |
| | PC PHOTOCELL |
| | TC-1 TIMECLOCK, 2-CIRCUIT, DIGITAL, ASTRONOMICAL, PROGRAMMABLE |

| GENTRAN PANEL SCHEDULE | | | | | | | | | |
|--|---------|---------------------------|-----------------------------------|-----|---------|-----|------------------|---------|---------|
| PANEL: PROTRAN R30310B | | | LOCATION: OUTSIDE ELECTRICAL ROOM | | | | | | |
| FED FROM PANEL MP & PORTABLE GENERATOR | | | MOUNTING: SURFACE | | | | | | |
| CKT NO. | KW LOAD | DESCRIPTION | BREAKER | | BREAKER | | DESCRIPTION | KW LOAD | CKT NO. |
| | | | P | AMP | P | AMP | | | |
| 1 | | RECEPTACLES | 1 | 15 | 15 | 1 | RADIO OFFICE | | 2 |
| 3 | | RECEPTACLES | 1 | 15 | 15 | 1 | OVERHEAD DOOR | | 4 |
| 5 | | BOILER | 1 | 15 | 15 | 1 | LIGHTS | | 6 |
| 7 | | CIRC PUMP P-4 | 1 | 15 | 15 | 1 | HEATING CONTROLS | | 8 |
| 9 | | CIRC PUMPS P-1A, P-1B, P2 | 1 | 15 | 15 | 1 | OVERHEAD DOOR | | 10 |

- KEYED NOTES:**
- TO EXHAUST FAN & INTAKE LOUVER. CO SENSOR & TIMER SWITCH PROVIDED BY MC, WIRED BY EC.
 - 120V LINE TO OUTDOOR AIR SENSOR, COORD. WITH MC.
 - OVERHEAD DOOR OPENER. PROVIDE WIRING TO REMOTE DOOR OPENING STATION, COORDINATE LOCATION & WIRING REQUIREMENTS WITH OWNER & EQUIPMENT SUPPLIER.
 - ALL WIRING IN THIS AREA SHALL CONFORM TO NEC ARTICLE #513. ALL RECEPTACLES SHALL BE MOUNTED AT 20" AFF.
 - PROVIDE E-Y FITTING AT MOTOR.
 - PROVIDE 120V CIRCUIT & JB FOR USE BY MC FOR CONTROL WIRING. COORD. EXACT LOCATION WITH MC.
 - 30-AMP, 240V CIRCUIT TO DEEP WELL PUMP, REFER TO SITE PLAN.
 - TELEPHONE TERMINATION AREA, CONDUIT TERMINATION AREA INCLUDING SPARE.
 - SEWER PUMP CONTROLLER, PROVIDE SERVICE TO EXTERIOR SEWER PUMP, REFER TO SITE PLAN.

- GENERAL NOTES:**
- ANY PLACE WHERE THE CONTRACTOR PENETRATES, CUTS AND/OR REMOVES WALLS, CEILINGS, OR WOODWORK, CONTRACTOR IS TO REPLACE, PATCH AND PAINT FINISH SURFACES TO ORIGINAL FINISHES.
 - FIELD VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. NOTIFY ENGINEER OF ANY ERRORS.
 - EC TO PROVIDE AND INSTALL ALL DISCONNECT SWITCHES, MC TO SUPPLY ALL MOTOR STARTERS, EC TO INSTALL.

| PANEL: MP | | | LOCATION: BREAK ROOM | | | | |
|--|--------------|---------|------------------------------|----|--------------|---------|---------------------------|
| AMPS: 150 MAIN CIRCUIT BREAKER | | | 120/240 VOLTS 1 PHASE 3 WIRE | | | | |
| AMPS FAULT CURRENT WITHSTAND: 10K | | | FLUSH MOUNT | | | | |
| NOTES: SERVICE RATED TOTAL LOAD: 40.5 KW | | | | | | | |
| NO | BREAKER AMPS | KW LOAD | DESCRIPTION | NO | BREAKER AMPS | KW LOAD | DESCRIPTION |
| 1 | 20* | 0.2 | RECEPTACLES GFI | 2 | 30 | 3.5 | WATER WELL |
| 3 | 20 | 0.4 | RECEPTACLES GFI | 4 | 2P | | |
| 5 | 20 | 0.6 | RECEPTACLES GFI | 6 | 20* | 0.7 | EXHAUST FAN |
| 7 | 20* | 0.5 | HEATING CONTROL POWER | 8 | 20* | 1.5 | HANGAR DOOR |
| 9 | 20 | 0.6 | BATHROOM, RECEPTACLES | 10 | 30 | 3.5 | SEWER PUMP |
| 11 | 20 | 0.7 | RECEPTACLES/BREAK AREA | 12 | 2P | | |
| 13 | 20 | 1.5 | REFRIGERATOR | 14 | 20* | 1.5 | HANGAR DOOR |
| 15 | 20 | 1.5 | KITCHEN COUNTERTOP | 16 | 20* | 0.5 | OFFICE LIGHTING |
| 17 | 20 | 1.5 | KITCHEN COUNTERTOP | 18 | 20* | 1.2 | LIGHTING & PADDLE FANS |
| 19 | 20 | 1.5 | KITCHEN COUNTERTOP | 20 | 20 | 1.7 | BAY LIGHTING |
| 21 | 20* | 1.5 | BOILER B-1/PUMP P-3 | 22 | 20 | 0.5 | OUTDOOR BUILDING LIGHTING |
| 23 | 20* | 1.2 | CIRC. PUMPS P-1A, P-1B, P-2 | 24 | 20 | 0.6 | MECH. ROOM RECEPTACLES |
| 25 | 20* | 0.4 | PUMP P-4 | 26 | 20* | 1.1 | RADIO OFFICE |
| 27 | 20 | 0.4 | PUMP P-5 | 28 | 20 | | SPARE |
| 29 | 20 | 1.1 | OFFICE 5 | 30 | 20 | | SPARE |
| 31 | | | SPACE | 32 | | | SPACE |
| 33 | | | | 34 | | | |
| 35 | | | | 36 | | | |
| 37 | | | | 38 | | | |
| 39 | | | | 40 | | | |
| 41 | | | | 42 | | | |

* DENOTES CONNECTION THRU GENERATOR TRANSFER SWITCH

