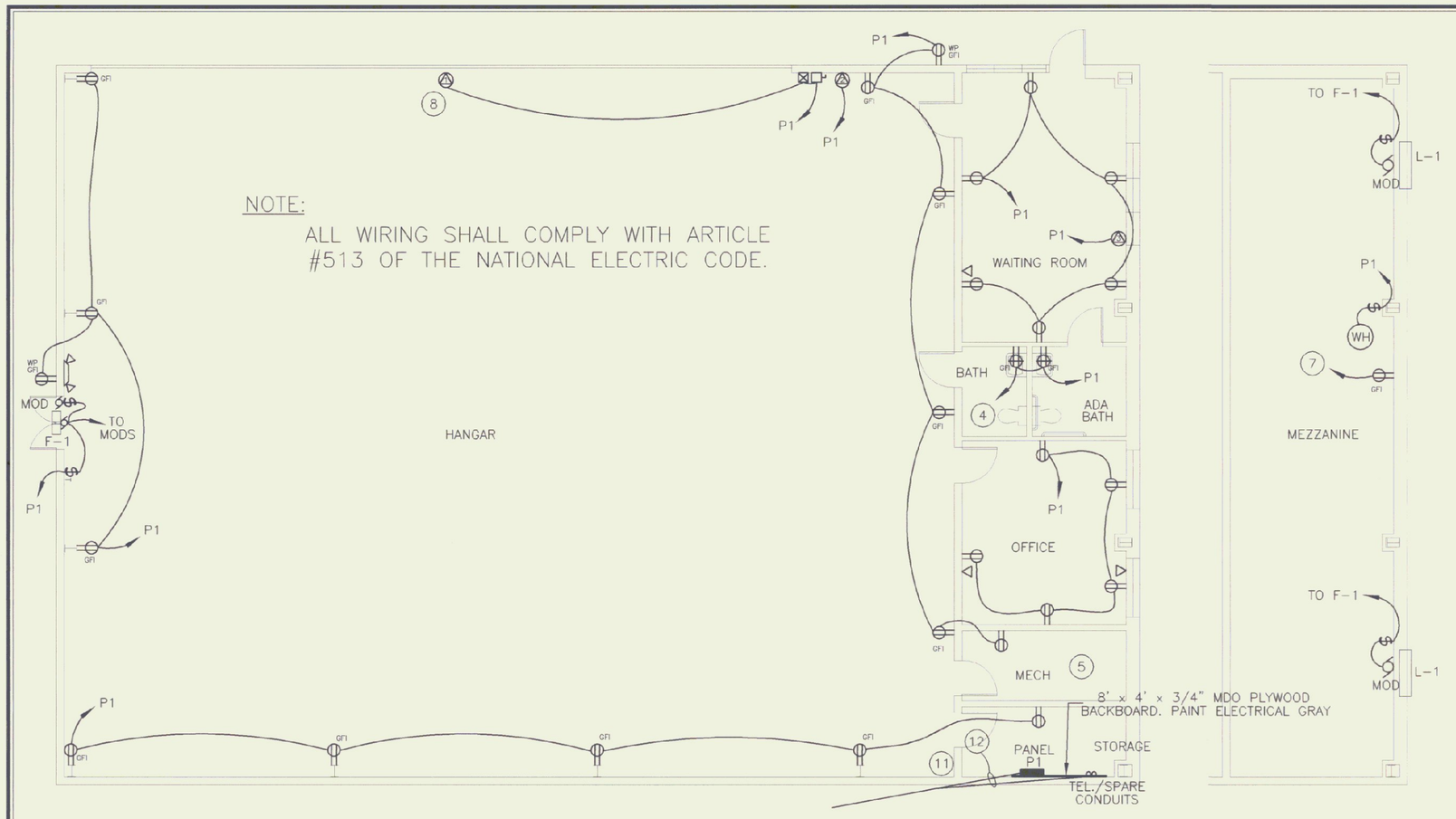
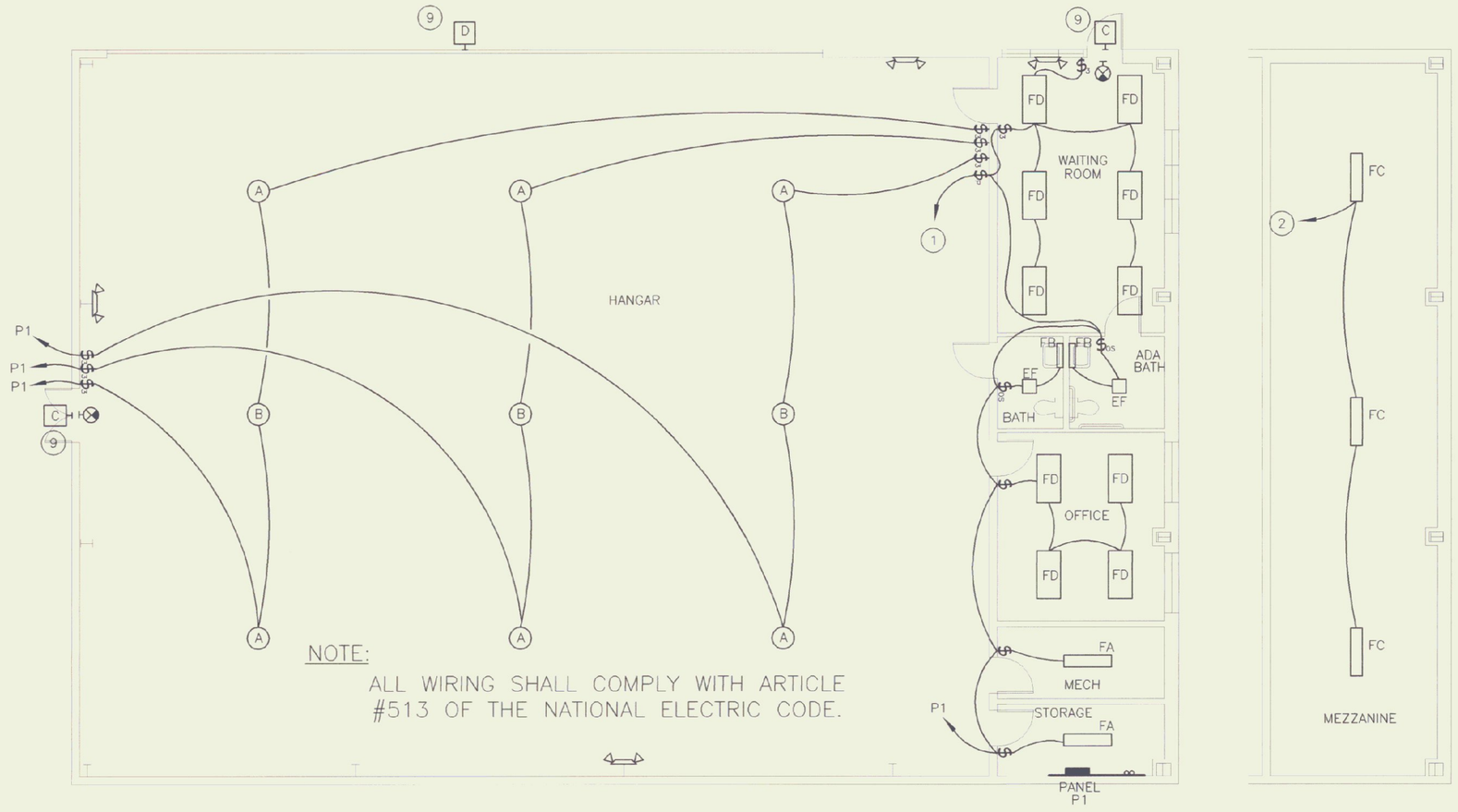


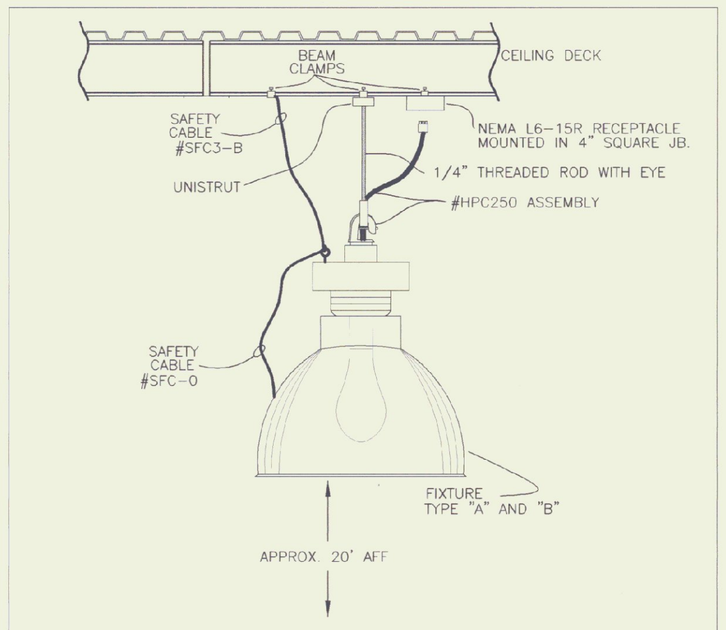
ELECTRICAL POWER PLAN

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



ELECTRICAL LIGHTING PLAN

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

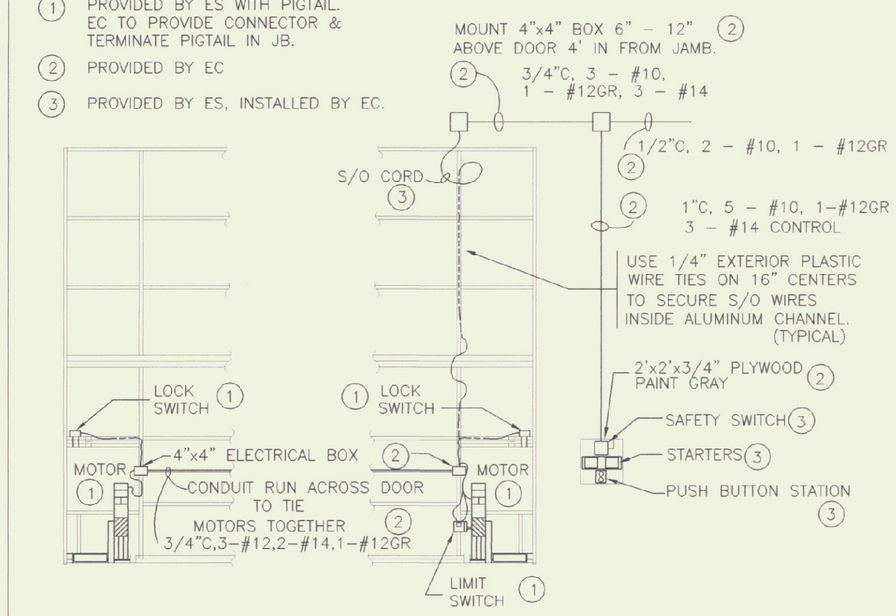


TYPE "A" & "B" FIXTURE MOUNTING DETAIL

NO SCALE

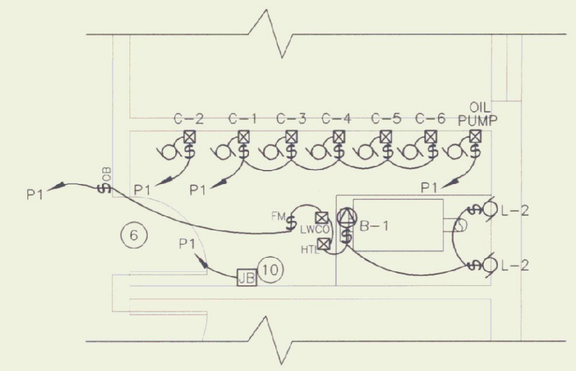
KEYED NOTES

1. PROVIDED BY ES WITH PIGTAIL. EC TO PROVIDE CONNECTOR & TERMINATE PIGTAIL IN JB.
2. PROVIDED BY EC
3. PROVIDED BY ES, INSTALLED BY EC.



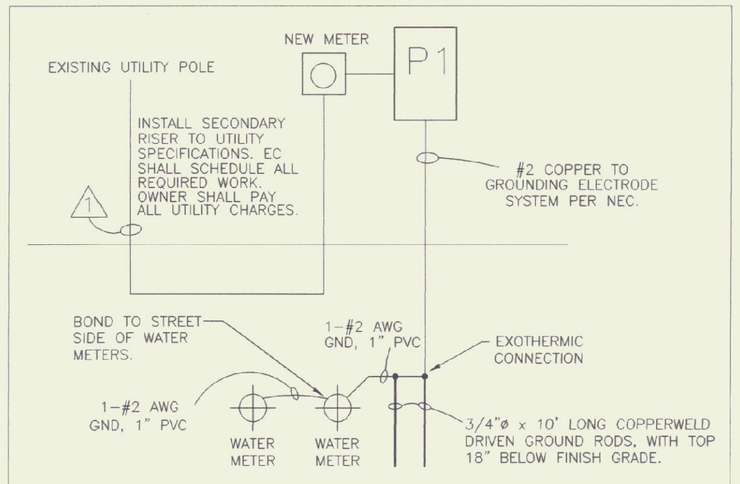
BI-FOLD DOOR DETAIL

NO SCALE



ELECTRICAL POWER PLAN-MECH. ROOM

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



POWER ONE-LINE DIAGRAM

NO SCALE

KEY	FEEDER SCHEDULE
1	1-2"C, 3-4/0 CU., 1-2"C SPARE, 1-4" TEL.

PANEL DESIGNATOR

PANEL: MDP
10,000 AIC
LOCATION: MECHANICAL ROOM
MOUNTING: SURFACE
MAINS: Φ1 , 3 WIRE, 120/240v, 200 AMP MAIN CIRCUIT BREAKER
CONNECTED LOAD: 25.2 KW

CKT NO.	KW LOAD	DESCRIPTION	BREAKER P	BREAKER AMP	BREAKER AMP	BREAKER P	DESCRIPTION	KW LOAD	CKT NO.
1	0.9	HANGAR RECEPTACLES	1	20	20	1	HANGAR RECEPTACLES	0.9	2
3	0.7	HANGAR RECEPTACLES	1	20	20	1	WAITING ROOM	1.1	4
5	7.5	WELDING RECEPTACLE	2	50	20	2	A/C RECEPTACLE	1.5	6
7									8
9	0.8	BI-FOLD DOOR	1	20	20	1	BATHROOM/MEZZANINE	0.6	10
11					20	1	OFFICE RECEPTACLES	0.9	12
13	0.4	EXTERIOR LIGHTING	1	20	20	1	WATER HEATER	1.5	14
15	0.9	HANGAR LIGHTS	1	20	20	1	OFFICE LIGHTING	0.3	16
17	0.9	HANGAR LIGHTS	1	20	20	1	CIRC. PUMP C-2	1.4	18
19	0.9	HANGAR LIGHTS	1	20	20	1	PUMPS C-1, C-3, C-4, C-5, C-6	0.8	20
21	0.9	BOILER B-1	1	20	20	1	EXHAUST FAN F-1	1.5	22
23	0.1	TEMP. CONTROL POWER	1	20	20	1	OIL TRANSFER PUMP	0.8	24
25		SPARE	1	20	20	1	SPARE		26
27		SPARE	1	20	20	1	SPARE		28
29									30

KEYED NOTES:

1. UP TO MEZZ. LIGHTING.
2. DOWN TO SWITCH.
3. SURFACE MOUNT QUAD RECEPTACLE AT 30" AFF.
4. TO RECEPTACLE ABOVE.
5. REFER TO DETAIL FOR MECHANICAL ROOM WIRING.
6. CONFIRM EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MC PRIOR TO ELECTRICAL ROUGH-IN.
7. TO RECEPTACLE CIRCUIT BELOW.
8. REFER TO BI-FOLD DOOR WIRING DETAIL AND WITH MANUFACTURER'S INSTALLATION MANUAL. COORD. ALL WORK WITH INSTALLER.
9. EXTERIOR LIGHTING SHALL BE ON SEPARATE CIRCUIT.
10. PROVIDE 20-A, 120-V CIRCUIT FOR TEMPERATURE CONTROL CONTRACTOR/MC.
11. LOCATION OF WATER SERVICE ENTRANCE, BOND AS REQUIRED.
12. 1-4" CONDUIT FROM UTILITY POLE FOR TELEPHONE. 1-2" SPARE CONDUIT FROM POLE, CAP AND MARK. 1-2" CONDUIT WITH 3-4/0 CU. REFER TO SITE PLANS FOR POLE LOCATION. SCHEDULE AND COORDINATE ALL WORK WITH OWNER AND UTILITY.

ELECTRICAL LEGEND

	FLOURESCENT FIXTURE	AFF	ABOVE FINISH FLOOR
	LIGHT FIXTURE	EC	ELECTRICAL CONTRACTOR (DIVISION 16)
	EXIT LIGHT	MC	MECHANICAL CONTRACTOR (DIVISION 15)
	EMERGENCY LIGHT	ES	EQUIPMENT SUPPLIER
$	SWITCH - SINGLE POLE	TYP.	TYPICAL OF ALL
$OB	SWITCH - SINGLE POLE WITH OIL BURNER PLATE		MOTOR
$OC	SWITCH - SINGLE POLE OCCUPANCY SENSOR	HTL	HIGH TEMPERATURE LIMIT SWITCH (PROVIDED BY MC)
$3	SWITCH - 3-WAY	LWCO	LOW WATER CUT-OFF SWITCH (PROVIDED BY MC)
$P	SWITCH - WITH PILOT LIGHT	AS	AQUASTAT (PROVIDED BY MC)
	MOTOR STARTER PROV. BY MC, INSTALLED BY EC	PS	PRESSURE SWITCH (PROVIDED BY MC)
	SAFETY DISCONNECT PROV. AND INSTALLED BY EC.		DATA/PHONE LOCATION (4" SQUARE BOX WITH 3/4" EMT CONDUIT TO ACCESSIBLE CEILING SPACE
	PANEL	$FM	FIREMATIC SWITCH, PROVIDED AND INSTALLED BY EC
	BRANCH CIRCUIT		SPECIAL PURPOSE OUTLET, REFER TO SCHEDULE
JB	JUNCTION BOX	GFCI	DUPLEX RECEPTACLE-GFCI PROTECTED
	DUPLEX RECEPTACLE		

SPECIAL PURPOSE OUTLET SCHEDULE

KEY	DESCRIPTION	SUPPLIED BY	INSTALLED BY	ELECTRICAL REQUIREMENTS CORD & CAP NEMA #	ELECTRICAL REQUIREMENTS PROVIDED BY	VOLTS	AMPS	STARTER PROVIDED BY	STARTER INSTALLED BY	ELECTRICAL DISCONNECT PROVIDED BY	REMARKS
A	BI-FOLD DOOR	GC	GC	-	-	240	20	ES	EC	EC	CONTROL WIRING BY EC
A	WELDING OUTLET	EC	EC	14-50R	EC	240	50	-	-	---	50" AFF
A	AIR CONDITIONER	ES	ES	6-20R	EC	240	20	-	-	---	COORD. LOCATION

Pearson & Associates
MECHANICAL & ELECTRICAL ENGINEERS
P.O. BOX 610 STOWE, VERMONT 05672
TEL. (802) 253-9607 FAX. (802) 253-9290
EMAIL: pearson@stowevt.net

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

B+G+S

STATE OF VERMONT REGISTERED PROFESSIONAL ENGINEER No. 6197

MIDDLEBURY STATE AIRPORT
NEW HANER BUILDING
ELECTRICAL DRAWINGS

MIDDLEBURY, VERMONT

REVISIONS

SCALE: AS SHOWN
DATE: AUG. 2002
DRAWN BY: ASG
APPR. BY: E. E. P.

MIDDLEBURY STATE AIRPORT NEW HANGAR

ELECTRICAL PLANS

E-1

1 OF 1