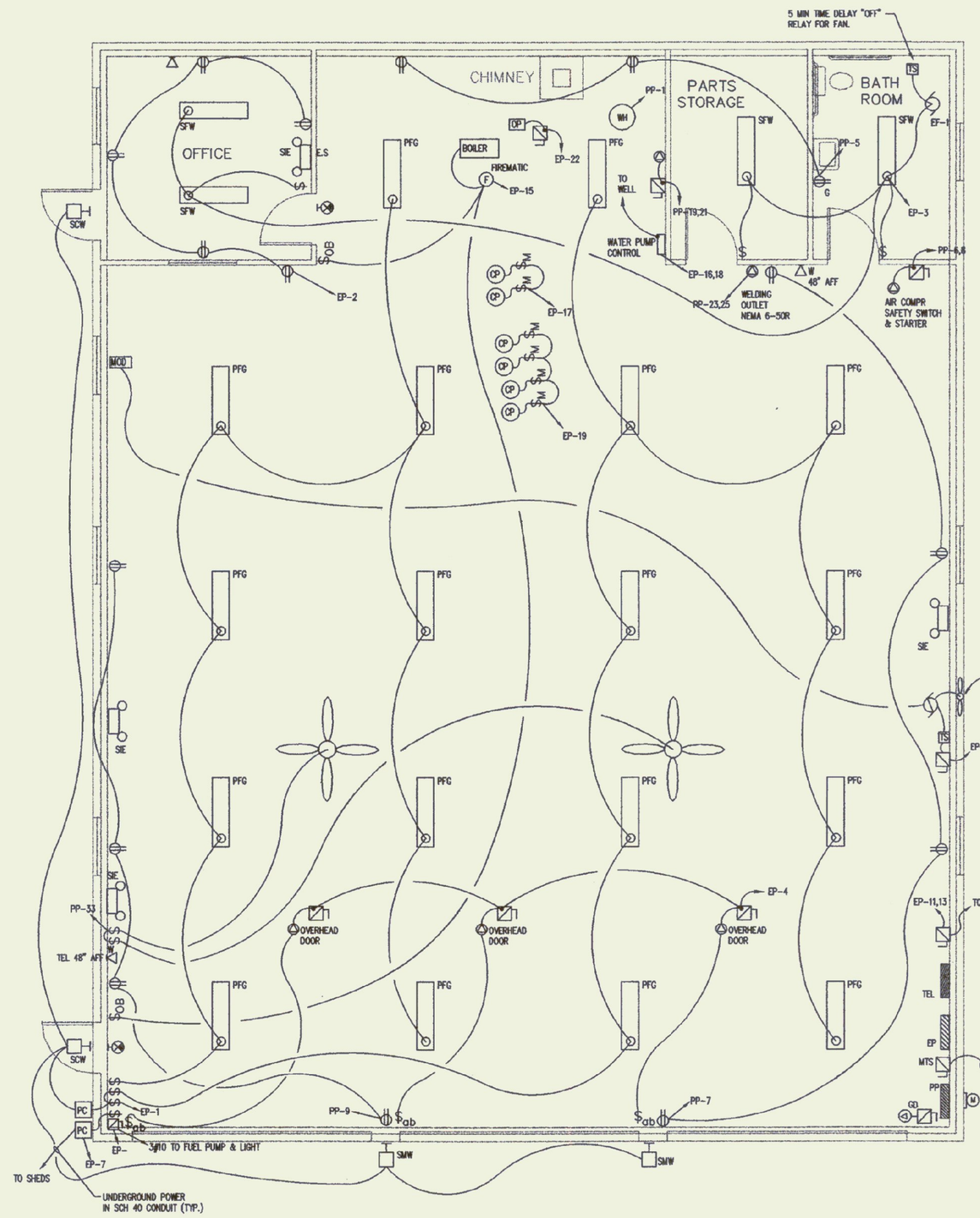
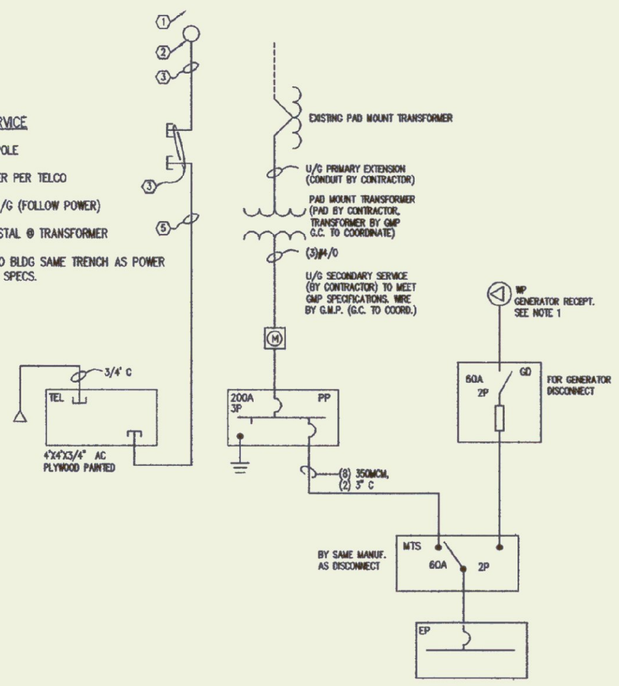


PLAN

SCALE 3/16" = 1'-0"

NEW TEL SERVICE

1. O/H TO POLE
2. POLE RISER PER TELCO
3. NEW 4" U/G (FOLLOW POWER)
4. TEL PEDESTAL @ TRANSFORMER
5. 4" U/G TO BLDG SAME TRENCH AS POWER TO TELCO SPECS.

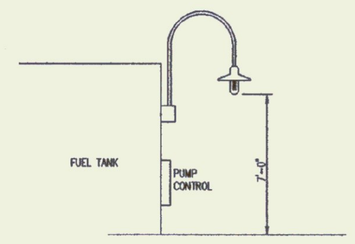


ELECTRICAL ONE-LINE DIAGRAM

SCALE: N.T.S.

NOTES:

1. COORDINATE RECEPTACLE WITH OWNER
2. G.C. TO COORDINATE ALL ELECTRICAL WORK WITH GREEN MOUNTAIN POWER



FUEL PUMP CONTROL LIGHTING

SCALE: N.T.S.

PANEL: PP (POWER PANEL) LOCATION: GARAGE FED FROM: SERVICE
200AMPS MAIN BREAKER 120/240VOLTS 1 PHASE 3 WIRE
22KAMPS FAULT CURRENT WITHSTAND MOUNT: SURFACE

NOTES: SERVICE RATED

NO	AMPS	WIRE	DESCRIPTION	NO	AMPS	WIRE	DESCRIPTION
1	20	2#12	WATER HEATER	2	20	2#12	EXHAUST FAN
3	2P			4	20	2#12	CEILING FANS
5	20	2#12	RECEPTACLES	6	60	3#6	AIR COMPRESSOR
7	20	2#12	RECEPTACLES	8	2P		
9	20	2#12	RECEPTACLES	10	20	2#12	RECEPTACLES
11	20	2#12	RECEPTACLES	12	20	2#12	SPARE
13	60	3#6	PANEL EP	14	20	2#12	SPARE
15	2P			16	20	2#12	SPARE
17			HOT WATER BOILER	18	20		SPARE
19	60	3#6	COMPRESSOR	20	20		SPARE
21	2P		SPACE	22	20		SPARE
23	50	3#6	WELDER OUTLET	24	20		SPARE
25	2P		SPACE	26	20		SPARE
27	20		SPARE	28	20		SPACE
29	2P		SPACE	30			SPACE
31	20	2#12	SHED	32			SPACE
33	20	2#12	FANS	34			SPACE
35			SPACE	36			SPACE
37			SPACE	Z			SPACE
39			SPACE	40			SPACE
41			SPACE	42			SPACE

PANEL: EP (EMERGENCY PANEL) LOCATION: GARAGE FED FROM: MTS
60 AMPS MAIN BREAKER 120/240VOLTS 1 PHASE 3 WIRE
22KAMPS FAULT CURRENT WITHSTAND MOUNT: SURFACE

NOTES:

NO	AMPS	WIRE	DESCRIPTION	NO	AMPS	WIRE	DESCRIPTION
1	20	2#12	LIGHTING	2	20	2#12	RECEPTACLES
3	20	2#12	LIGHTING	4	20	2#12	OVERHEAD DOORS
5	20	2#12	LIGHTING	6	20		SPARE
7	20	2#12	EXT SHED LIGHTS	8	20		SPARE
9	20	2#12	INT SHED LIGHTS	10	20	3#10	FUEL PUMP VIA DISCONNECT
11	30	2#10	WW PUMP	12	2P		
13	2P			14	20		SPARE
15	20	2#12	BOILER	16	30	3#8	WATER PUMP VIA CONTROL
17	20	2#12	CIRCULATORS 1& 2	18	2P		
19	20	2#12	CIRCULATORS 3,4,5,6	20	20	2#12	EF
21	20		SPARE	22	20	2#12	OIL PUMP
23	20		SPARE	24	20		SPARE

LEGEND :

(NOTE: NOT ALL SYMBOLS ARE USED IN THIS PROJECT.)

POWER :

(ALL RECEPTACLES TO BE SPECIFICATION GRADE 20 AMP RATED)

- DUPLEX RECEPTACLE (MOUNT AT 1'-6" AFF UON)
- DUPLEX RECEPTACLE (COORDINATE MOUNT WITH COUNTER)
- DUPLEX RECEPTACLE (WEATHER PROOF)
- QUAD RECEPTACLE (MOUNT ABOVE COUNTER)
- GFCI PROTECTED DUPLEX RECEPTACLE
- SPECIAL RECEPTACLE
- MOTOR, NUMBER INDICATES HORSEPOWER
- JUNCTION BOX, SIZE PER NEC
- FUSED DISCONNECT
- PANEL BOARD
- METER
- DUPLEX RECEPTACLE – FLANGED PEDESTAL (MOUNT AT 3" OR COUNTER IN CAST BOX)
- GENERATOR PLUG (COORDINATE TO FIT OWNERS EMERGENCY GENERATOR)

COMMUNICATIONS :

- TELEPHONE OUTLET WALL MOUNT (MOUNTED 48" A.F.F. UON)
- TELEPHONE OUTLET (MOUNTED 18" A.F.F. UON), 3/4" C TO TEL PANEL

LIGHTING :

LIGHT FIXTURES – SEE SCHEDULE FOR TYPE AND MOUNTING

CONTROLS :

- TIME DELAY RELAY
- PHOTOCELL

SWITCHES :

(ALL SWITCHES TO BE SPECIFICATION GRADE, 20 AMP RATED, MOUNTED AT 3'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.)

- WALL SWITCH

X OR Y	FUNCTION
D	DIMMER SWITCH
K	KEY OPERATED
O—B	OIL BURNER SWITCH
M	MOTOR SENTINEL SWITCH
P	PILOT SWITCH
T	FAN CONTROL SWITCH
T	SPRING WOUND TIMER SWITCH
a,b,...	INDICATES WHICH FIXTURES CONTROLLED BY WHICH SWITCH.
2	DPST DOUBLE POLE, SINGLE THROW
3	SPDT (3-WAY)
4	DPDT (4-WAY)

- AB-XY — KEY TYPE LOW VOLTAGE SWITCH CONTROLLING RELAY ON CKT XY ON PANEL AB

ABBREVIATIONS :

WP = WEATHER PROOF
NEC = NATIONAL ELECTRIC CODE
UON = UNLESS OTHERWISE NOTED
AFF = ABOVE FINISHED FLOOR
GFI = GROUND FAULT INTERRUPTING
DC = DIRECT CURRENT
AC = ALTERNATING CURRENT
WM = WIREMOLD
EOLD = END OF LINE DEVICE
EM = EMERGENCY LIGHT FIXTURE
NL = NIGHT LIGHT (NON SWITCHED)
MW = MODULAR WIRING
UH = UNIT HEATER
EF = EXHAUST FAN
CUH = CABINET UNIT HEATER

NOTES:

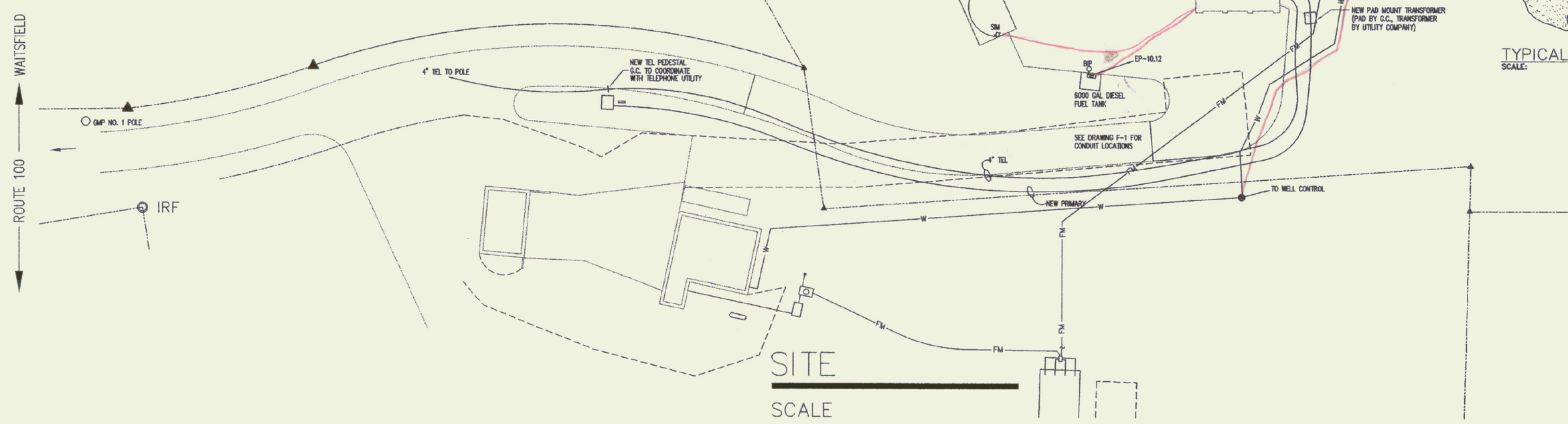
ALL BRANCH CIRCUIT RUNS SURFACE MOUNTED IN EMT. MINIMUM 4" ABOVE FLOOR WITH SUITABLE BOXES AND COVERS

ALL OUTLETS & SWITCHES AT ALL LOCATIONS SHALL BE AT LEAST 48" AFF

ALL WIRING TO MOVING OR VIBRATING EQUIPMENT TO BE IN GREENFIELD CONDUIT.

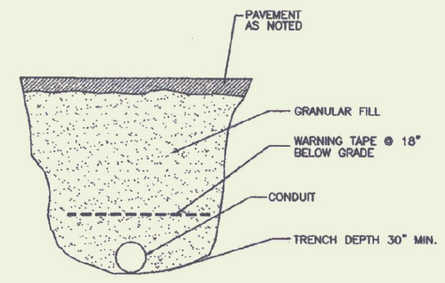
INSTALL GROUND WIRE AND ROD IN ACCORDANCE WITH LOCAL POWER COMPANY SPECIFICATIONS.

PROVIDE EXT. GRADE "AC" PLYWOOD PANEL [" THICK WITH 2 COATS OF GRAY PAINT AND [" SPACERS FOR MAIN DISTRIBUTION PANEL AND TELEPHONE.



SITE

SCALE



TYPICAL TRENCH DETAIL

SCALE:

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

AGENCY OF TRANSPORTATION
WAITSFIELD MAINTENANCE FACILITY
POWER & LIGHTING PLAN & DETAILS
WAITSFIELD VERMONT

REVISIONS

SCALE: AS NOTED
DATE: JULY 1999
DRAWN BY: W. BISSELL
APPR. BY:

WAITSFIELD
MAINTENANCE FACILITY
PLAN & DET.

E-1

12 OF 12

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