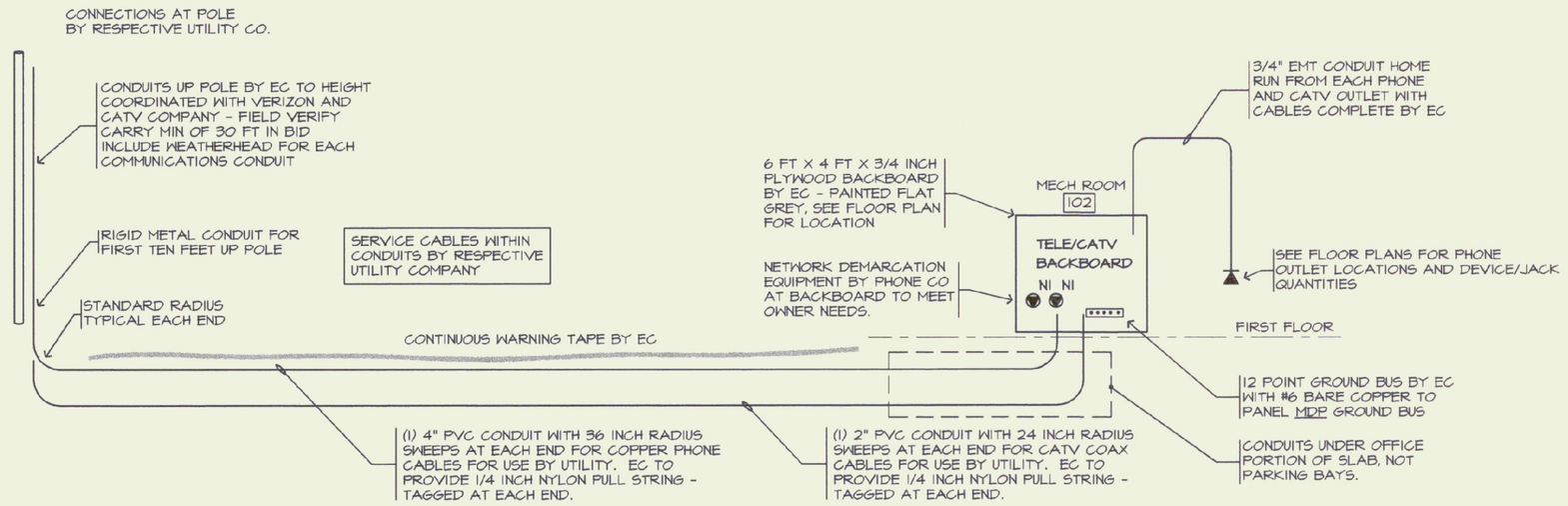
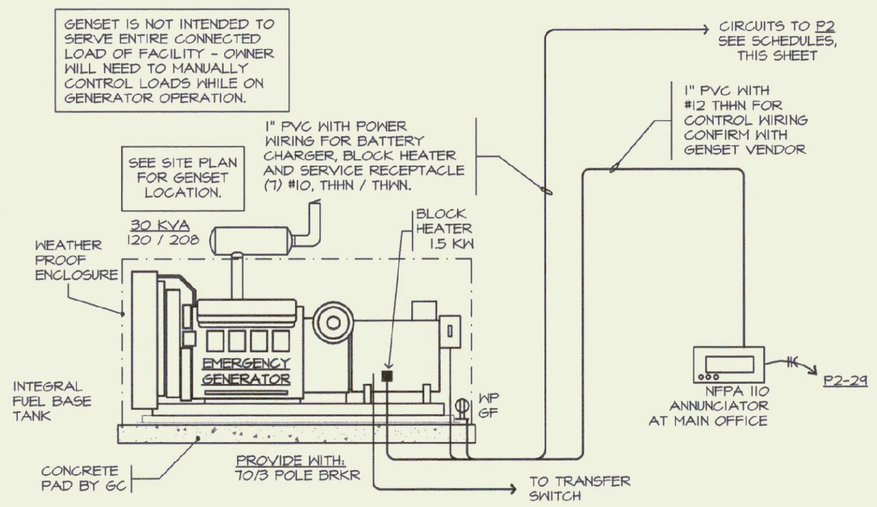
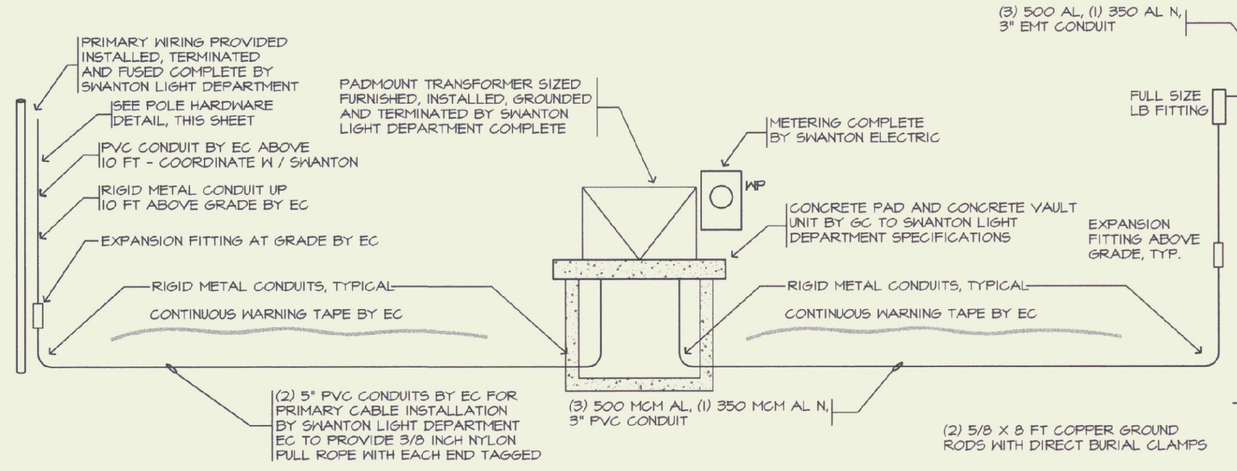
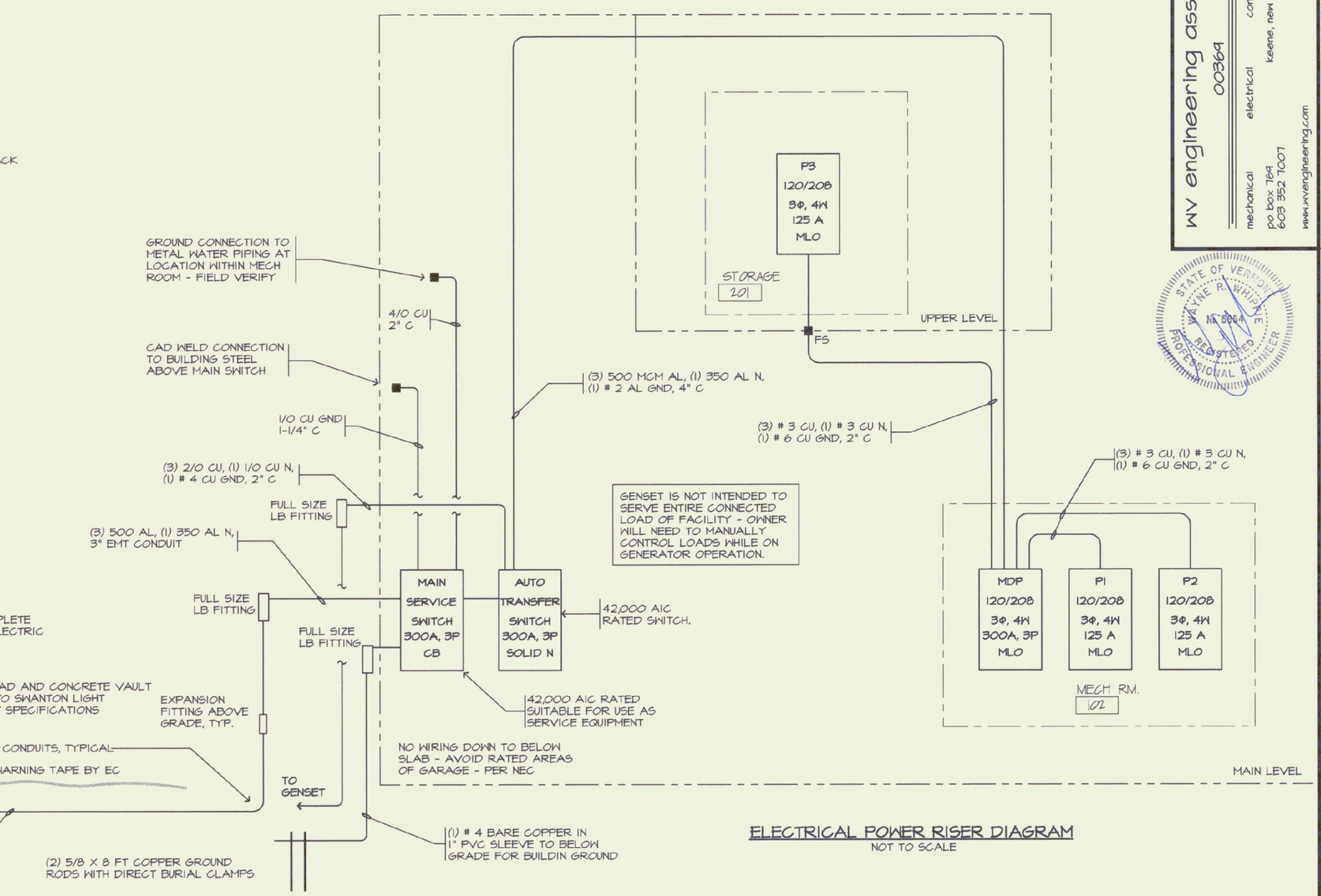


TELEPHONE/CATV SERVICES RISER DIAGRAM
NOT TO SCALE



GENERATOR WIRING DETAIL
NOT TO SCALE





ELECTRICAL POWER RISER DIAGRAM
NOT TO SCALE

PANEL: MDP VOLTAGE: 120/208 PHASE: 3 MAIN: 300 A - MLO [X] MCB [ ]
TYPE: PANELBOARD [X] LOADCENTER [ ] PLUG IN [ ] BOLT ON [X] FAULT RATING: 22000
LOCATION: MECHANICAL RM. 102 MOUNTING: SURFACE

DIRECTORY	TRIP	℄	AΦ	BΦ	CΦ	℄	TRIP	DIRECTORY
PANEL P1	90/3	1	7000 / 7000			2	90/3	PANEL P2
----	----	3		7000 / 7000		4	----	----
----	----	5			7000 / 7000	6	----	----
PANEL P3	90/3	7	5000 / 2000			8	50/3	FUTURE PANEL
---	---	9		5000 / 2000		10	---	---
----	----	11			5000 / 2000	12	----	----
PUMP P-1	20/3	13	400 / 600			14	20/3	PUMP P2
----	----	15		400 / 600		16	----	----
---	---	17			400 / 600	18	---	---
ACC-1	40/2	19	2000 / 2000			20	40/3	AIR COMPRESSOR
--	----	21		2000 / 2000		22	----	--
STAIR LIFT	20/1	23			2000 / 2000	24	--	--
TOILET EF-2 (2)	20/1	25	500 / 500			26	20/3	EF-1
TOILET RECEPTACLES	20/1	27		500 / 500		28	--	--
STOCK/OFFICE 106 RECEPTACLES	20/1	29			500 / 500	30	--	--
STOCK/OFFICE 106 RECEPTACLES	20/1	31	540 / 500			32	20/1	BOILER B-1 (BL)
STOCK/OFFICE 106 RECEPTACLES	20/1	33		540 / 500		34	20/1	DOMESTIC HOT WATER RECIRCULATION PUMP
OFFICE 109 RECEPTACLES	20/1	35			720 / 500	36	20/1	HVAC CONTROLS (BL)
OFFICE 109 RECEPTACLES	20/1	37	500 / 500			38	20/1	CATV/TELEPHONE BACKBOARD (BL)
OFFICE 109 RECEPTACLES	20/1	39		500 / 500		40	20/1	BOILER ROOM RECPTS
OIL STORAGE EXHAUST FAN EF-2	20/1	41			500 / 500	42	20/1	UNIT HEATER (UH-1)
CONNECTED LOAD			29040	29040	29220	NOTES		
DEMAND 100 %			---	---	---			(GF) GROUND FAULT
TOTAL DEMAND LOAD			87300					(BL) BREAKER LOCK KIT

PANEL: P1 VOLTAGE: 120/208 PHASE: 3 MAIN: 125 A - MLO [X] MCB [ ]
TYPE: PANELBOARD [X] LOADCENTER [ ] PLUG IN [ ] BOLT ON [X] FAULT RATING: 18,000 AIC
LOCATION: MECHANICAL RM. 102 MOUNTING: SURFACE

DIRECTORY	TRIP	℄	AΦ	BΦ	CΦ	℄	TRIP	DIRECTORY
EXHAUST FAN EF-3	20/1	1	200 / 200			2	20/1	EXHAUST FAN EF-3
PARKING BAY RECEPTACLES	20/1	3		540 / 540		4	20/1	PARKING BAY RECEPTACLES
PARKING BAY RECEPTACLES	20/1	5			540 / 540	6	20/1	PARKING BAY RECEPTACLES
PARKING BAY RECEPTACLES	20/1	7	540 / 540			8	20/1	PARKING BAY RECEPTACLES
PARKING BAY RECEPTACLES	20/1	9		540 / 540		10	20/1	PARKING BAY RECEPTACLES
PARKING BAY RECEPTACLES	20/1	11			540 / 540	12	20/1	PARKING BAY RECEPTACLES
PARKING BAY RECEPTACLES	20/1	13	540 / 540			14	20/1	PARKING BAY RECEPTACLES
PARKING BAY RECEPTACLES	20/1	15		500 / 500		16	20/1	FUEL OIL PUMP SET
CEILING CORD REEL RECEPTACLE	20/1	17			1000 / 1000	18	20/1	CEILING CORD REEL RECEPTACLE
CEILING CORD REEL RECEPTACLE	20/1	19	1000 / 1000			20	20/1	CEILING CORD REEL RECEPTACLE
UNIT HEATER UH-2	20/1	21		250 / 250		22	20/1	UNIT HEATER UH-2
CEILING PADDLE FAN	20/1	23			300 / 300	24	20/1	CEILING PADDLE FAN
SPARE	20/1	25	500 / 500			26	20/1	SPARE
OVERHEAD DOOR OPENER	20/1	27		600 / 600		28	20/1	OVERHEAD DOOR OPENER
OVERHEAD DOOR OPENER	20/1	29			600 / 600	30	20/1	OVERHEAD DOOR OPENER
OVERHEAD DOOR OPENER	20/1	31	600 / 600			32	20/1	OVERHEAD DOOR OPENER
OVERHEAD DOOR OPENER	20/1	33		600 / 600		34	20/1	OVERHEAD DOOR OPENER
EXTERIOR RECEPTACLES	20/1	35			360 / 360	36	20/1	EXTERIOR RECEPTACLES
WELDER	50/2	37	3000 / 3000			38	50/2	WELDER
--	--	39		3000 / 3000		40	--	--
(GF) SPARE	20/1	41			500 / 500	42	20/1	SPARE (GF)
CONNECTED LOAD			12760	12060	7680	NOTES		
DEMAND 70%			8932	8456	5376			(GF) GROUND FAULT
TOTAL DEMAND LOAD			22764					(BL) BREAKER LOCK KIT

PANEL: P2 VOLTAGE: 120/208 PHASE: 3 MAIN: 125 A - MLO [X] MCB [ ]
TYPE: PANELBOARD [X] LOADCENTER [ ] PLUG IN [ ] BOLT ON [X] FAULT RATING: 18,000 AIC
LOCATION: MECHANICAL RM. 102 MOUNTING: SURFACE

DIRECTORY	TRIP	℄	AΦ	BΦ	CΦ	℄	TRIP	DIRECTORY
EXTERIOR "Q" LIGHTING FIXTURES	20/1	1	600 / 360			2	20/1	STORAGE SHED RECEPTACLES
EXTERIOR "Q" LIGHTING FIXTURES	20/1	3		600 / 360		4	20/1	STORAGE SHED RECEPTACLES
EXTERIOR "Q" LIGHTING FIXTURES	20/1	5			600 / 360	6	20/1	SALT SHED RECEPTACLES
EXTERIOR "Q" LIGHTING FIXTURES	20/1	7	600 / 360			8	20/1	SALT SHED RECEPTACLES
STAIRWAY LIGHTING	20/1	9		500 / 500		10	20/1	FUTURE SALT SHED RECEPTACLES
FUEL DISPENSING AREA LIGHT	20/1	11			500 / 2250	12	30/2	ELECT. WATER HEATER
SPARE	20/1	13	500 / 2250			14	--	--
PARKING BAY LIGHTING	20/1	15		1500 / 1500		16	20/1	PARKING BAY LIGHTING
PARKING BAY LIGHTING	20/1	17			1500 / 1500	18	20/1	PARKING BAY LIGHTING
PARKING BAY LIGHTING	20/1	19	1500 / 1500			20	20/1	PARKING BAY LIGHTING
OIL STORAGE / MECH RM LIGHTING	20/1	21		1200 / 1200		22	20/1	STOCK/OFFICE/TOILET LIGHTING
SPARE	20/1	23			500 / 400	24	20/1	STORAGE SHED INTERIOR LIGHTING
GENSET CONTROLS	20/1	25	500 / 400			26	20/1	STORAGE SHED INTERIOR LIGHTING
GENSET BLOCK HEATER	20/1	27		1500 / 500		28	20/1	STORAGE SHED INTERIOR POWER
GENSET ANN.	20/1	29			500 / 500	30	20/1	STORAGE SHED INTERIOR POWER
GENSET SERVICE RECPT	20/1	31	500 / 400			32	20/1	SALT SHED INTERIOR LIGHTING
FUEL PUMP LIGHT	20/1	33		500 / 400		34	20/1	SALT SHED INTERIOR LIGHTING
DISPENSING PUMP	20/1	35			500 / 400	36	20/1	SALT SHED INTERIOR POWER
SPARE	20/1	37	500 / 400			38	20/1	SALT SHED INTERIOR POWER
WATER WELL PUMP	20/2	39		500 / 500		40	30/2	SPARE
--	---	41			500 / 500	42	--	--
CONNECTED LOAD			10870	11260	10510	NOTES		
DEMAND 70%			7259	7882	7357			(GF) GROUND FAULT
TOTAL DEMAND LOAD			22498					(BL) BREAKER LOCK KIT

PANEL: P3 VOLTAGE: 120/208 PHASE: 3 MAIN: 125 A - MLO [X] MCB [ ]
TYPE: PANELBOARD [X] LOADCENTER [ ] PLUG IN [ ] BOLT ON [X] FAULT RATING: 18,000 AIC
LOCATION: STORAGE RM. 201 MOUNTING: SURFACE

DIRECTORY	TRIP	℄	AΦ	BΦ	CΦ	℄	TRIP	DIRECTORY
STORAGE RM. RECEPTACLES	20/1	1	360 / 360			2	20/1	STORAGE RM. 201 RECEPTACLES
STORAGE RM. RECEPTACLES	20/1	3		720 / 720		4	20/1	STORAGE RM. 201 RECEPTACLES
BREAKROOM 200 REFRIG.	20/1	5			800 / 4000	6	50/2	ELECTRIC (ST) RANGE
SPARE	20/1	7	500 / 4000			8	--	--
BREAKROOM 200 RECEPTACLES	20/1	9		540 / 600		10	20/1	RANGE HOOD
BREAKROOM 200 RECEPTACLES	20/1	11			360 / 500	12	20/1	WEATHERSTATION
BREAKROOM 200 RECEPTACLES	20/1	13	360 / 500			14	20/1	SPARE
BREAKROOM 200 RECEPTACLES	20/1	15		360 / 500		16	20/1	SPARE
BREAKROOM 200 REF RECEPTACLE	20/1	17			500 / 500	18	20/1	SPARE
AHU-1 1/2 HP	20/3	19	500 / 500			20	20/2	SPARE
--	--	21		500 / 500		22	--	--
--	--	23			500 / 500	24	30/2	SPARE
SPARE	20/1	25	500 / 500			26	--	--
BREAKROOM 200 LIGHTING	20/1	27		350 / 640		28	20/1	STORAGE RM. 201 LIGHTING
SPARE	20/1	29			0 / 0	30	20/1	SPARE
SPARE	20/1	31	0 / 0			32	20/1	SPARE
SPARE	20/1	33		0 / 0		34	20/1	SPARE
SPARE	20/1	35			0 / 0	36	20/1	SPARE
SPARE	20/1	37	0 / 0			38	20/1	SPARE
SERVICE RECEPTACLE	20/1	39		0 / 0		40	20/1	SPARE
RECEPTACLE MTD. BELOW PANEL	20/1	41			500 / 0	42	20/1	SPARE
CONNECTED LOAD			8080	5430	8160	NOTES		
DEMAND 70%			5656	3801	5712			(GF) GROUND FAULT
TOTAL DEMAND LOAD			15169					(BL) BREAKER LOCK KIT

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STATE OF VERMONT
DEPARTMENT OF BUILDINGS AND GENERAL SERVICES
AGENCY OF ADMINISTRATION
MONTPELIER, VERMONT

AGENCY OF TRANSPORTATION
HIGHGATE MAINTENANCE FACILITY
HIGHGATE VERMONT

REVISIONS

SCALE: AS SHOWN
DATE: 09/24/01
DRAWN BY: CTS
APPR. BY: WEW

HIGHGATE
MAINTENANCE GARAGE
PANEL SCHEDULES

E-4