VOLTAGE: 208/120V | 3 PHASE, 4 WIRE
BUS: 200A
MAIN: MLO

PANEL:

LOCATION:
FED FROM:
SECTION: 1 OF 1

AIC: 22,000
MOUNTING: SURFACE
SOURCE: NORMAL

LOAD TYPE	LOAD DESCRIPTION	FDR SIZE	LOAD (KVA)	BKR (A)	CKT NO	LOAD (KVA) PHASE A	PHASE B	PHASE C	CKT NO	BKR (A)	LOAD (KVA)	FDR SIZE	LOAD DESCRIPTION	LOAD TYPE
N					1	0.0			2					N
N					3		0.0		4					N
N					5			0.0	6					N
N					7	0.0			8					N
N					9		0.0		10					N
N					11			0.0	12					N
N					13	0.0			14					N
N					15		0.0		16					N
N					17			0.0	18					N
N					19	0.0			20					N
N					21		0.0		22					N
N					23			0.0	24					N
N					25	0.0			26					N
N					27		0.0		28					N
N					29			0.0	30					N
N					31	0.0			32					N
N					33		0.0		34					N
N					35			0.0	36					N
N					37	0.0			38					N
N					39		0.0		40					N
N					41			0.0	42					N
				kVA/PHASE		0.0	0.0	0.0						

Notes:

1.
2.
3.

	(KVA)	(AMP)
TOTAL CONNECTED:	0.0	0

PANELBOARD SPECIAL FEATURES

- [ ] SURGE PROTECTION DEVICE (SPD)
- [ ] OTHER

LOAD TYPE CODE LETTERS		(KVA)	(AMP)
C	CONTINUOUS LOAD *(125% OF CONTINUOUS LOAD)*	0.0	0
K6	KITCHEN DEVICES *(SIX OR MORE AT 65% OF LOAD)*	0.0	0
LM	LARGE MOTOR LOAD *(LARGEST MOTOR x125%)*	0.0	0
M	MOTOR LOAD *(100% OF LOAD)*	0.0	0
IM	INTERMITTENT MOTOR LOAD *(85% OF LOAD)**	0.0	0
N	NON-CONTINUOUS LOAD *(100% OF LOAD)***	0.0	0
R	RECEPTACLE LOAD *(FIRST 10KVA AT 100%, REMAIN. AT 50%)*	0.0	0
	TOTAL DEMAND:	0.0	0

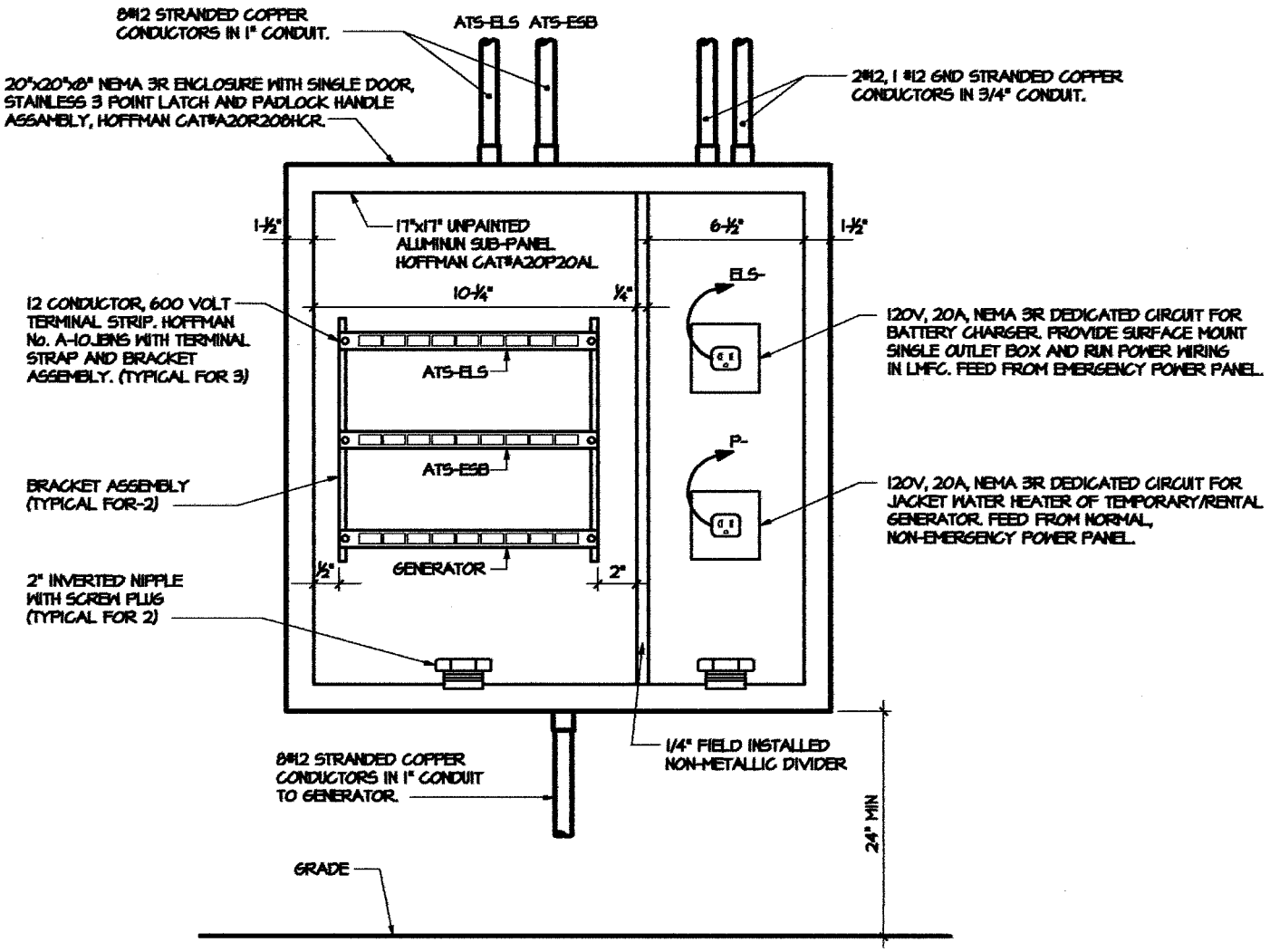
* FAIRFAX COUNTY @ (100% OF LOAD)
** REMAINING LOADS

FEEDER SIZE:

1	
2	
3	
4	
5	
6	
7	
R	RELOCATE EXISTING CIRCUIT
X	REMOVE EXISTING CIRCUIT (CONDUIT AND WIRE)
E	EXISTING CIRCUIT TO REMAIN

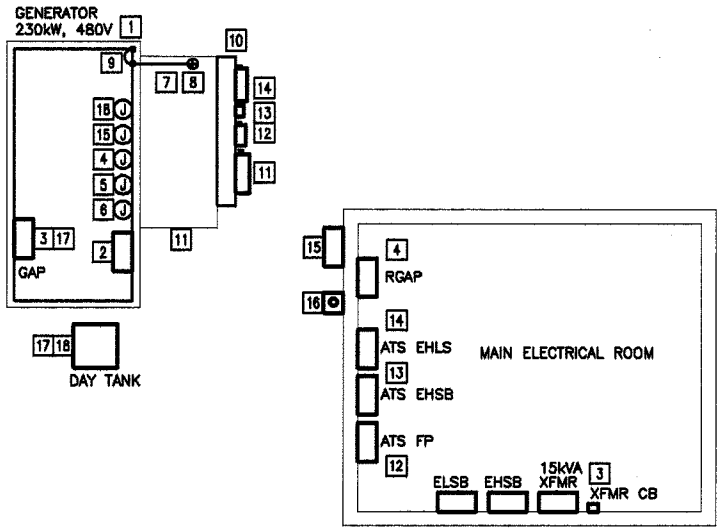
EXHIBIT #1

EXHIBIT #2



GENERATOR CONNECTION BOX

NOT TO SCALE

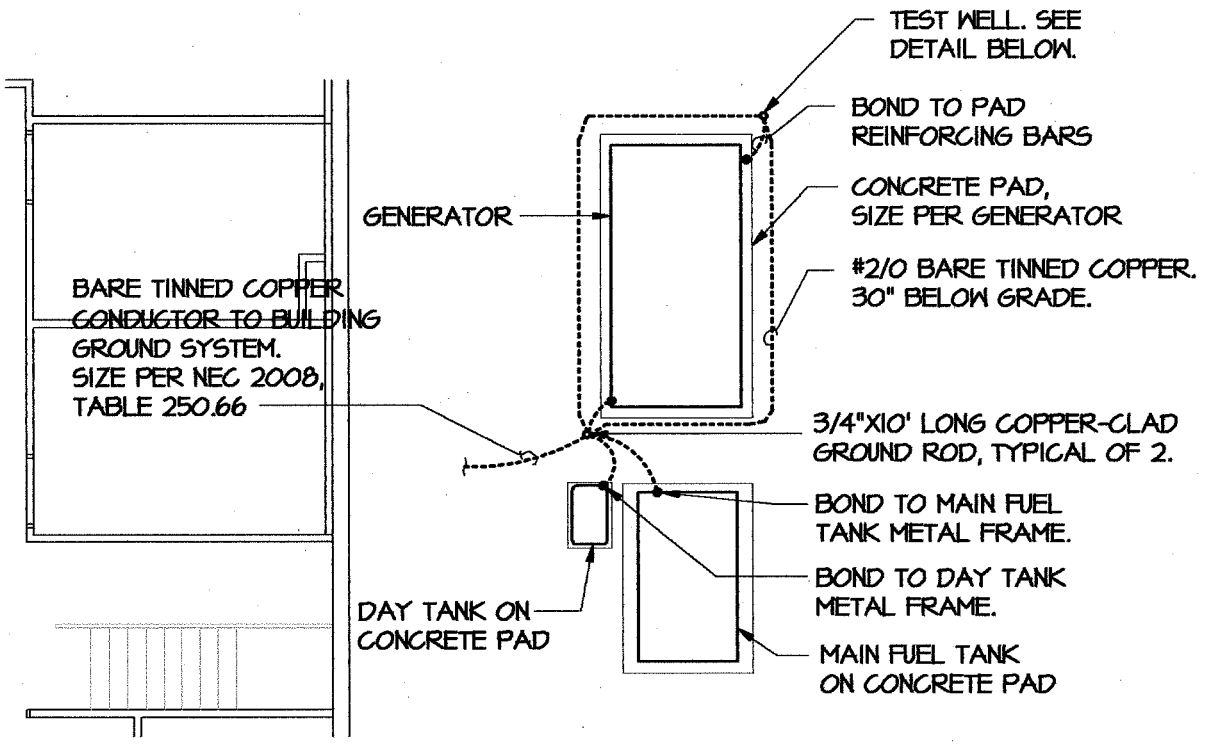


1. COORDINATE STUB-UP AND EQUIPMENT CONNECTION LOCATION FOR ALL UNDERGROUND FEEDERS WITH GENERATOR MANUFACTURER PRIOR TO ROUGH-IN. RUN CONDUITS ALL 24" BELOW FINISHED GRADE.
2. CONNECT POWER CONDUCTORS TO GENERATOR MAIN CIRCUIT BREAKER FROM RACK MOUNTED 3PDT DISCONNECT SWITCH WITH INVERTED NIPPLES. SEE RISER DIAGRAM FOR CONTINUATION, CONDUIT AND WIRE SIZES.
3. 1" CONDUIT FROM GENERATOR GAP PANEL TO 15kVA XFMR VIA ENCLOSED CB.
4. EXTEND 1" CONDUIT WITH 12#12 AND 2C/TRS TWISTED PAIR ('BELDEN' #9413) FROM CONTROL PANEL TO REMOTE GENERATOR ANNUNCIATOR PANEL (RGAP).
5. 1" CONDUIT WITH CONDUCTORS TO EXTERIOR WALL MOUNTED GENERATOR CONNECTION BOX AS REQUIRED TO PARALLEL GENERATOR REMOTE START AND STOP CONTROLS AT ATS-GEN. PROVIDE SCREW DOWN WIRING STRIP IN ENCLOSURE FOR PARALLEL CONNECTION OF ROLL-UP GENERATOR CONTROL WIRING.
6. 4#20 IN 3/4"C FROM GENERATOR CONTROL PANEL TO DAY TANK FOR CONTROL.
7. #4/0 AWG BTC GROUND CONDUCTOR TO GROUND ROD. CADWELD CONDUCTORS TO GENERATOR FRAME AND GROUND ROD.
8. 10' BY 3/4" STEEL COPPER CLAD GROUND BAR DRIVEN 36" BELOW GRADE AND CONNECTED TO GROUND ROD CONDUCTOR.
9. 20'-1/0 BTC UFER GROUND GENERATOR TRANSFORMER FOUNDATION FOOTING.
10. EQUIPMENT RACK. SEE 4/E5 FOR DETAILS.
11. 4#500+1#3G IN 3" C FROM GENERATOR TO DOUBLE THROW, CENTER OFF SWITCH.
12. 3#6+1#10G IN 1" C FROM 200A FSS TO 'ATS-FP'.
13. 4#1+1#6G IN 2" C FROM 100A FSS TO 'ATS-EHSB'.
14. EXTEND 4#250+1#4G IN 3" C FROM 400A FSS TO 'ATS-EHLS'.
15. 1" CONDUIT WITH CONDUCTORS TO EXTERIOR WALL MOUNTED GENERATOR CONNECTION BOX AS REQUIRED TO PARALLEL GENERATOR REMOTE START AND STOP CONTROLS AT ATS-GEN. PROVIDE SCREW DOWN WIRING STRIP IN ENCLOSURE FOR PARALLEL CONNECTION OF ROLL-UP GENERATOR CONTROL WIRING.
16. WALL MOUNTED REMOTE MANUAL STOP STATION WIRED TO GENERATOR CONTROL PANEL TO PROVIDE EMERGENCY SHUT DOWN OF THE GENERATOR.
17. 2#12+1#12G IN 1"C FROM GAP TO DAY TANK
18. 2#12 IN 1"C FROM GENERATOR CONTROL PANEL TO DAY TANK

X/EX GENERATOR SCHEMATIC DETAIL
NOT TO SCALE

EXHIBIT #3

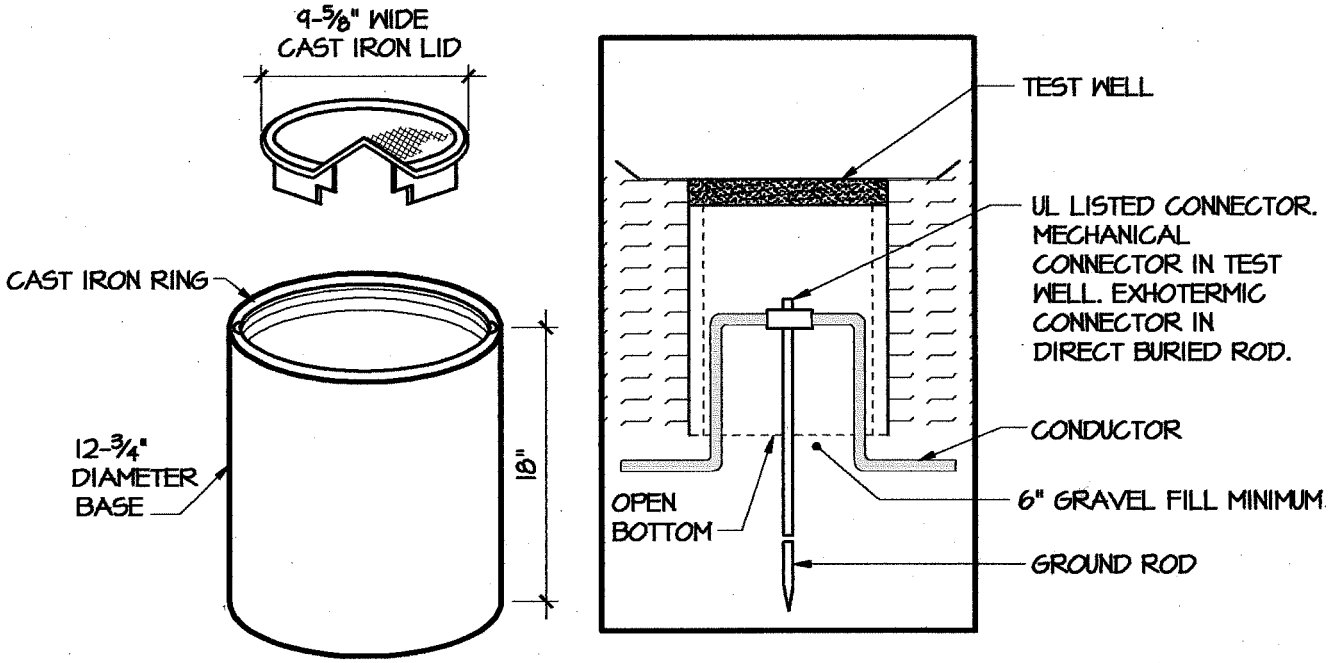
EXHIBIT #4



GENERATOR GROUNDING DETAIL

NOT TO SCALE

NOTE: ALL EQUIPMENTS SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE 2008 EDITION ARTICLE 250, GROUNDING AND BONDING.



3/8" STEEL GROUND TEST WELL DETAIL

NTS