



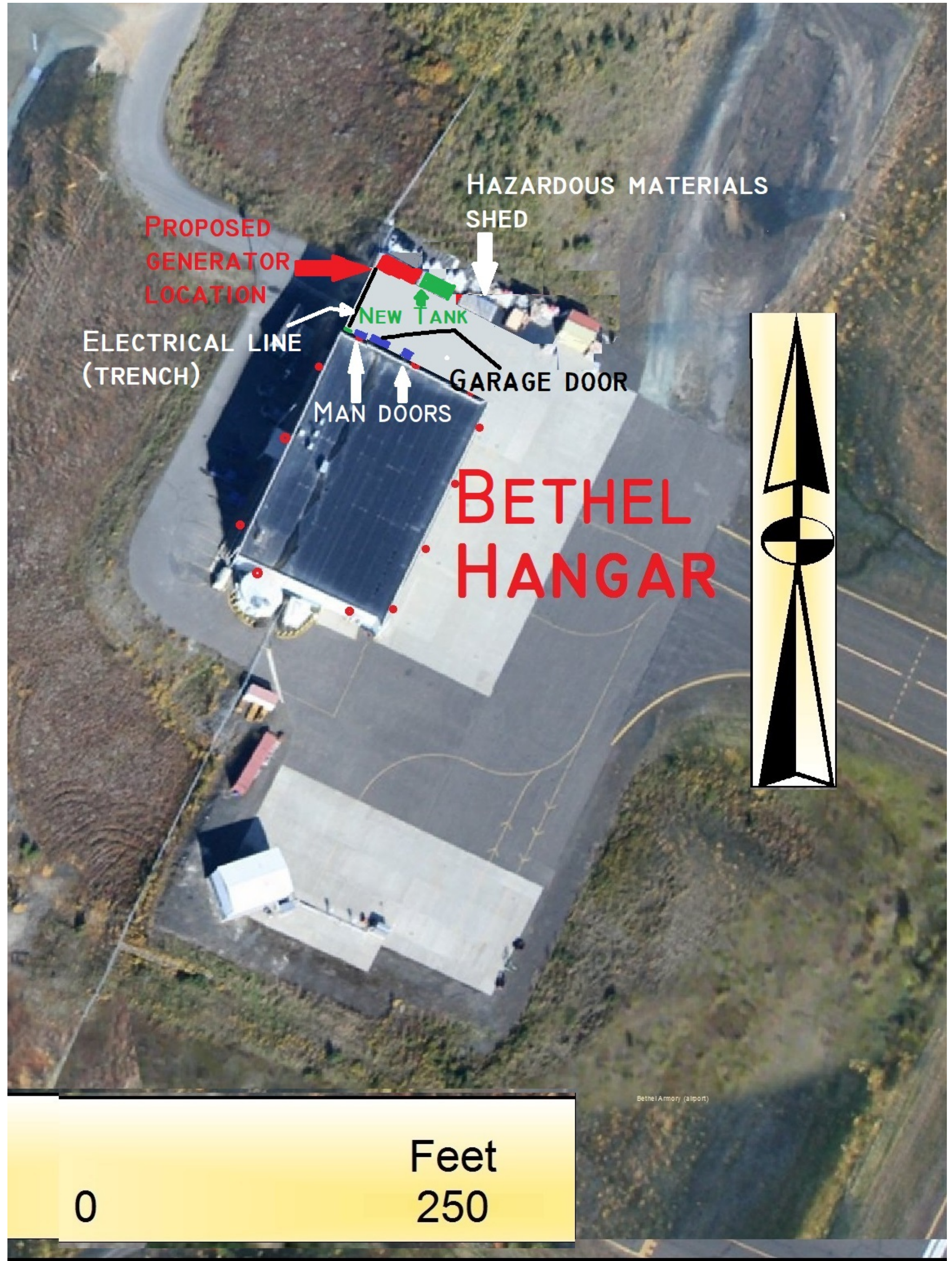
BETHEL
HANGAR
(EXISTING)



0

Feet
250

Bethel Armory (airport)



HAZARDOUS

SHED

FOR CABLES

SENSET TO

G. 12" WIDE,

EP. CUT IS

SH ASPHALT

SURFACED

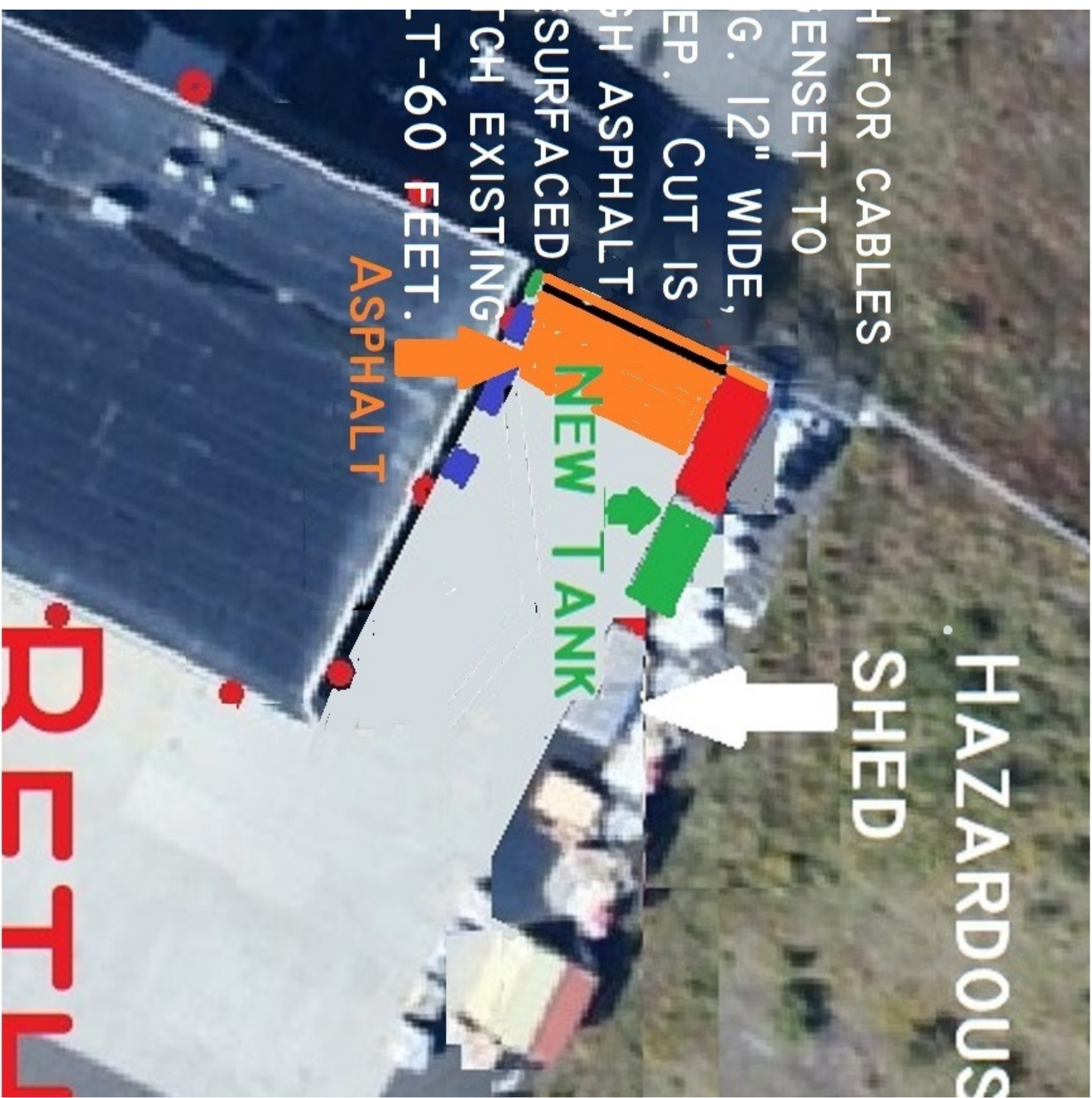
CH EXISTING

T-60 FEET.

ASPHALT

NEW TANK

RETT





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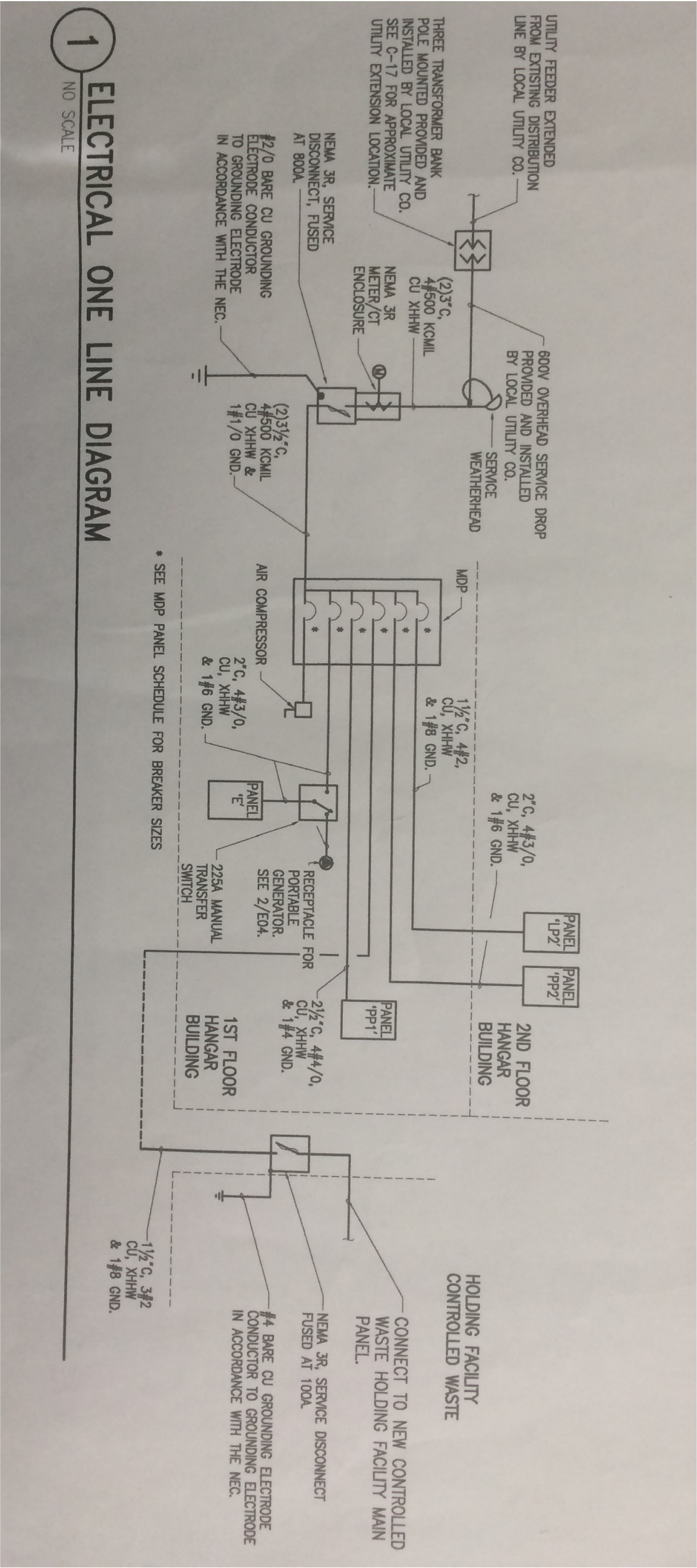


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BETHEL HANGAR GENERATOR PROJECT

SERVICE DISCONNECT



BETHEL HANGAR STANDBY
GENERATOR PROJECT

DISTRIBUTION SWITCHBOARD SCHEDULE "A"

LOCATION: RM.#108 VOLT 120/208 Ø 3 WIRE 4 AMP 600 MAIN 600A

ITEM	SWITCH BREAKER	LOAD SERVED	LOAD KVA			REMARKS
			CONNECTED	D.F.	DEMAND	
1.	150A 3P	PANEL 'B'	47.1	7	33	
2.	150A 3P	PANEL 'C'	41.5	7	29	
3.	100A 3P	PANEL 'E'	25.9	8	20.7	
4.	50A 3P	SUPPLY FAN (3/4 HP)	8	1.0	8	
5.	30A 3P	EXHAUST FAN (5 HP)	5	1.0	5	
6.	100A 3P	SPACES	-	-	-	
7.	(3) AT 100A 3P	SPACES	-	-	-	
TOTAL			127.5	.75	95.7	

CONNECTED LOAD KVA 127.5 AMPS 353
DEMAND FACTOR .75
DEMAND LOAD KVA 95 AMPS 263
SPARE CAPACITY (20%) KVA 25.5 AMPS 53
TOTAL DEMAND KVA 120.5 AMPS 338

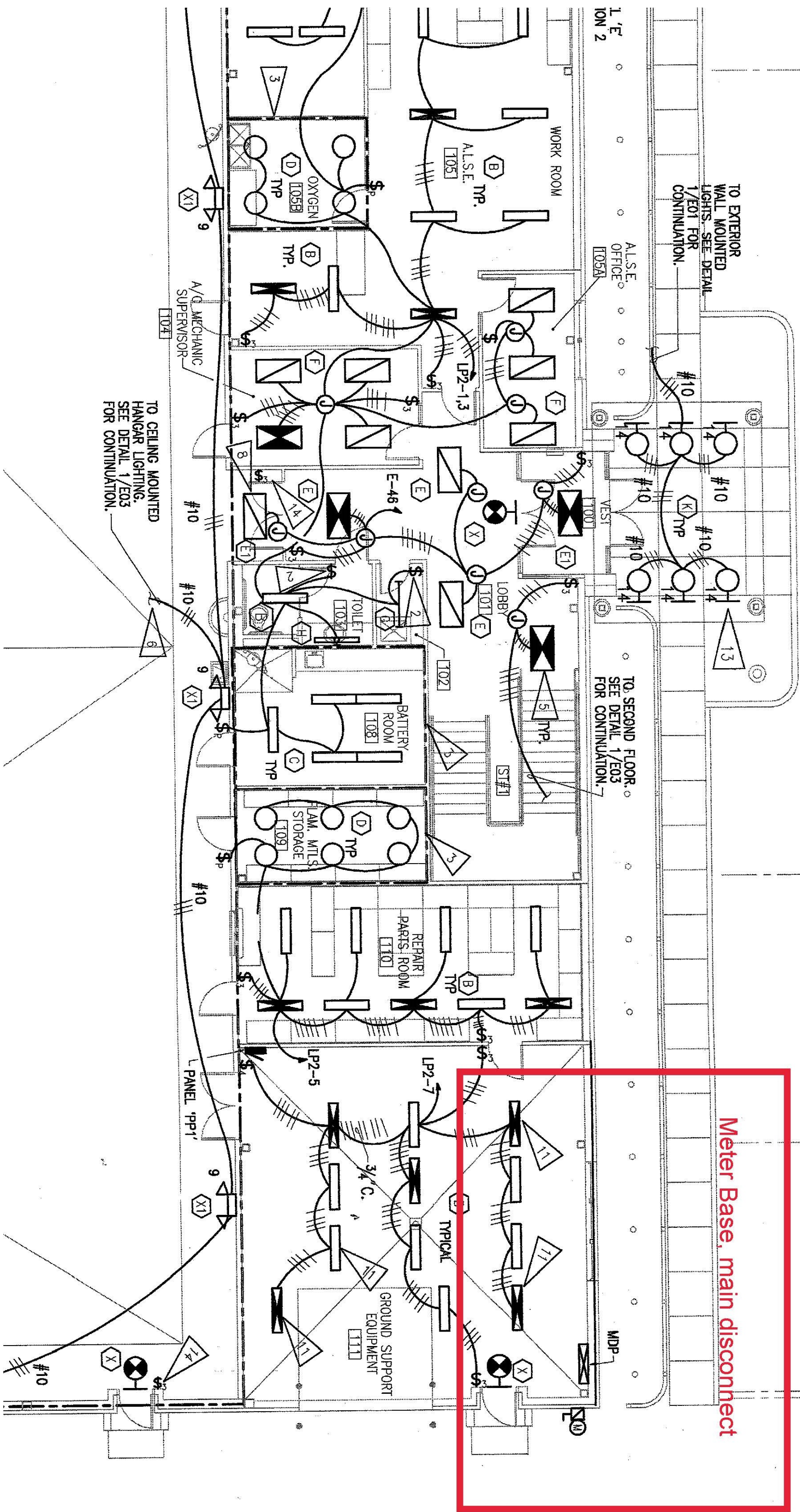
AIC RATING: 22000 MINIMUM FOR
BREAKERS 65,000 FOR SWITCHBOARD

SURFACE X FLUSH
FREE STANDING
C.T. COMPARTMENT YES NO
☐ ☒

NO. C	
CKT NO.	LC
1	LIGHT
3	
5	
7	
9	
11	
13	
15	RO
17	SP
19	SP
21	D.C
23	RO
25	
27	
29	
31	(3)
33	(3)
35	
37	ST
39	ST
41	
REMARKS	MINIMUM SURFACE

Bethel AAOF (Hangar) Diesel Generator Project
First Floor

Meter Base, main disconnect



BETHEL HANGAR GENERATOR PROJECT PANEL E SECTION I

PANEL E (SECTION 1)										400A MLO		
SQ.D TYPE NQDD			120/208V, 3ø, 4W			SURFACE MTD.						
			VOLT-AMPS									
CIRC	POLE	AMPS	SERVICE			A	B	C	SERVICE			
1	1	15	CUH-1, EF-5, FSDs	650	1175				GP-1	15	1	2
3		20	EF-2 & 3			1392	1175		CP-3			4
5		15	UH-2, 3, & 4, EF-4					864	CP-4	20		6
7		20	RECPT. BOILER ROOM	540	1000				UH-1, WH-1, CP-5 & 6			8
9		30	RAIN LEADER HEAT TRACE			675	-		SPARE			10
11			HANGAR SUMP HEAT TRACE					675				12
13		20	SEWAGE TANK HEAT TRACE	700	1600				CP-1	30		14
15			SPARE			-	1600					16
17			HANGAR DOOR HEAT TRACE					1250				18
19			SPARE						CP-2			20
21		30	LS-1	-	1600	2110	1600					22
23								2110				24
25	3			2110	720				B-2	15		26
27		20	AIRCRAFT FUEL DISPENSER			828	720					28
29	2							828				30
31		30	WP-1 & 1B	1600	720				B-1	15		32
33						1600	720					34
35	3							1600				36
37		15	JP-1	720	500				VF-1	15		38
39						720	500					40
41	3							720				42
			SECTION 1 V-A			13,635	13,640	14,362	41,637			VA
			SECTION 1 AMPS			114	114	120	116			A
			TOTAL V-A			25,757	27,136	28,198	81,091			VA
			TOTAL AMPS			215	226	235	225			A
A.I.C. RATING: 10,000A												
* PROVIDE 30mA GFI EQUIPMENT BREAKER FOR ALL HEAT TRACE CIRCUITS.												

BETHEL HANGAR GENERATOR PROJECT

PANEL PP1

PANEL PP1				SQD TYPE NOOD		120/208V, 3ø, 4W		SURFACE MTD.		225A MLO	
CIRC	POLE	AMPS	SERVICE	A	B	C	SERVICE	AMPS	POLE	CIRC	
1	1	20	HANGAR RECEPT. NORTH EAST	720 0	720 0		SPARE	50	2	2	
3			↓				208V HANGAR RECEPT.	50	2	4	
5			↓				208V HANGAR RECEPT.	50	2	6	
7			↓	720 4800		900 4800	208V HANGAR RECEPT.	50	2	8	
9			↓		720 4800		208V HANGAR RECEPT.	50	2	10	
11			GSE RECEPTACLES			900 4800	208V HANGAR RECEPT.	50	2	12	
13			↓	900 4800			208V HANGAR RECEPT.	50	2	14	
15			1ST FLOOR OFFICE RECEPT.		1080 4800		208V HANGAR RECEPT.	50	2	16	
17						900 4800		50	2	18	
19				900 4800			WMRS-1 RECYCLER	30	2	20	
21					900 3450	720 3450	WMRS-1 RECYCLER	30	2	22	
23							WMRS-1 REPRESSURE	20	1	24	
25				720 1200			WMRS-1 SLIMP PUMP	20	1	26	
27			HEADBOLT HEATERS		1500 1920		AHU-1	15	1	28	
29						1500 500				30	
31				1500 500						32	
33					1500 500		SPACE		3	34	
35						1500			1	36	
37				1500						38	
39					1500					40	
41						1500				42	
TOTAL V-A				23,060	23,390	26,270		72,720	VA *		
TOTAL AMPS				192	195	219		202	A		
A.L.C. RATING: 10,000A											
* DEMAND LOAD = 51,680VA (144A)											

**BETHEL HANGAR GENERATOR PROJECT
PANEL PP2**

[illegible]



SQUARE D

NOOD PANELBOARD
TABLERO NOOD

CATALOG NO.
No. DE CATALOGO

SERIES
SERIE

NBOD442L225CU

E2

MADE IN U.S.A. HECHO EN E.U.A.

MAX. AMPS
A max

VOLTS AC
V

PH WIRE
FASES HILOS

225

208Y/120
240
240/120 (DELTA)

3

3

3

4

3

4

7

EL DISPARO AUTOMATICO ES INDICADO POR LA POSICION
INTERMEDIA DE LA PALANCA ENTRE CERRADO (ON) Y
ABIERTO (OFF). PARA RESTAURAR SERVICIO MOVER LA
PALANCA HACIA OFF Y LUEGO HACIA ON.

AUTOMATIC TRIP IS INDICATED BY HANDLE POSITION
MIDWAY BETWEEN ON AND OFF. RESTORE SERVICE
BY MOVING HANDLE TO OFF THEN ON.

80110-389-1

SQUARE D COMPANY

PERU PLANT

F.O. 12 —

1141 6685

019

MADE IN U.S.A.

80043-258-02



1. Introduction

...and the

THE UNIVERSITY OF CHICAGO

[illegible]

THE

401

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021102

THE UNIVERSITY OF CHICAGO

...the ...

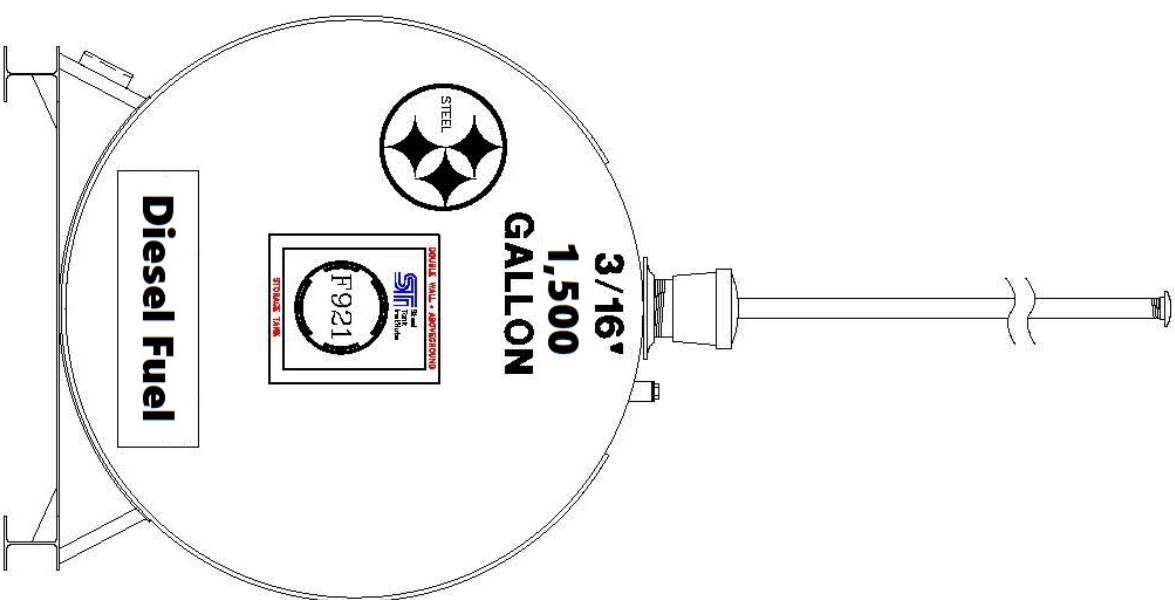
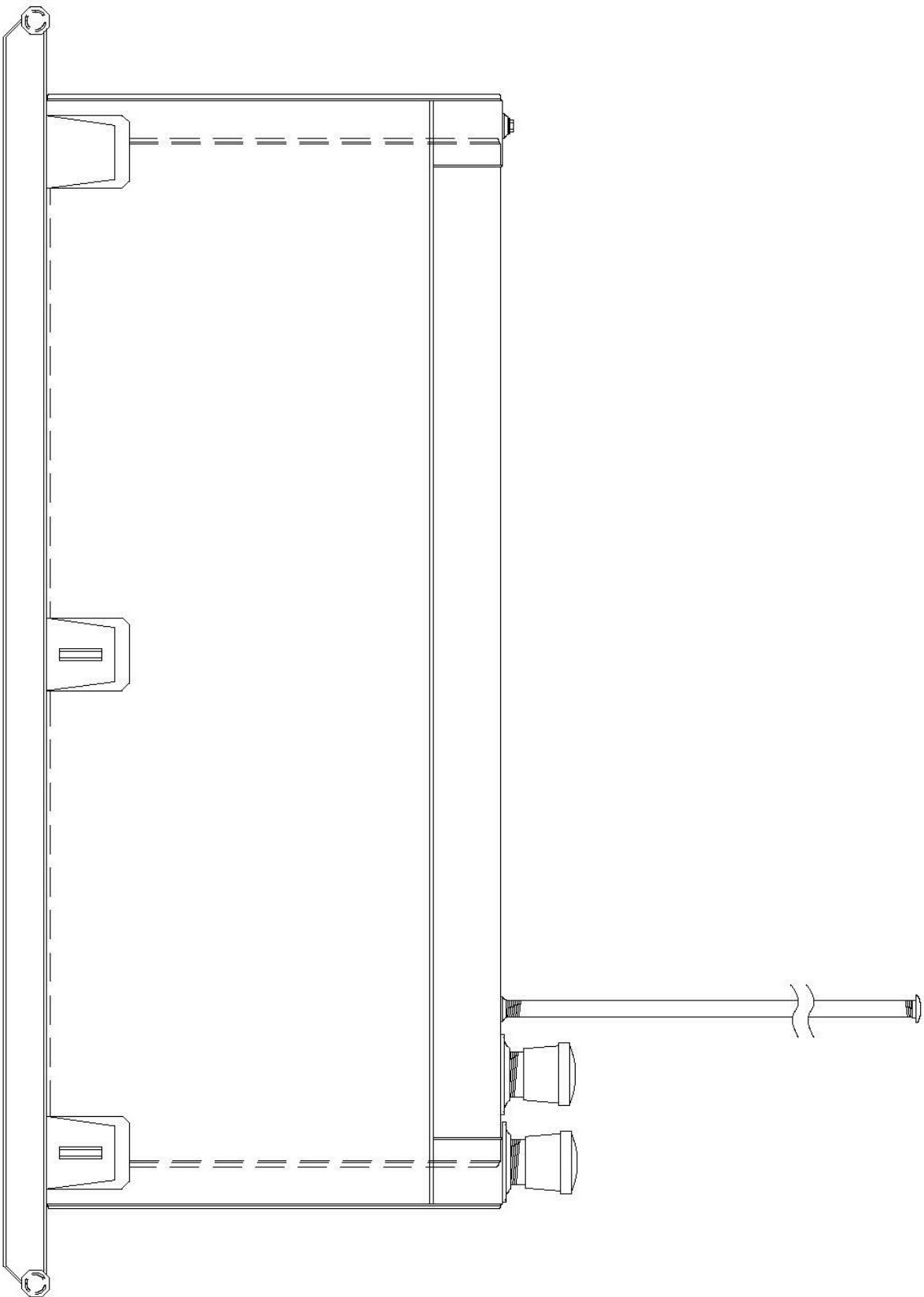
7/10/1988

RESEARCH

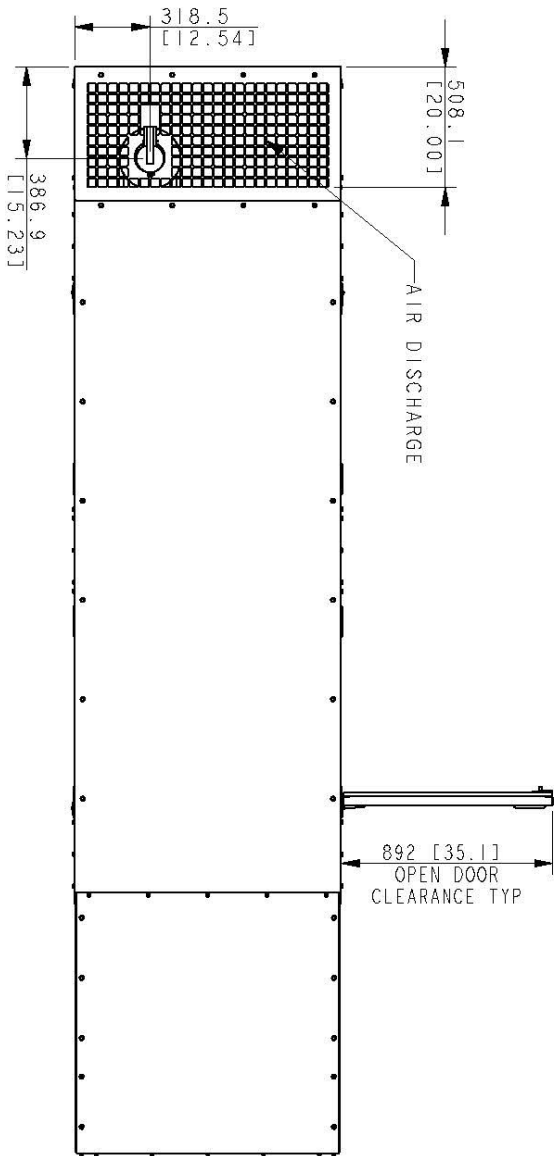
DANGER



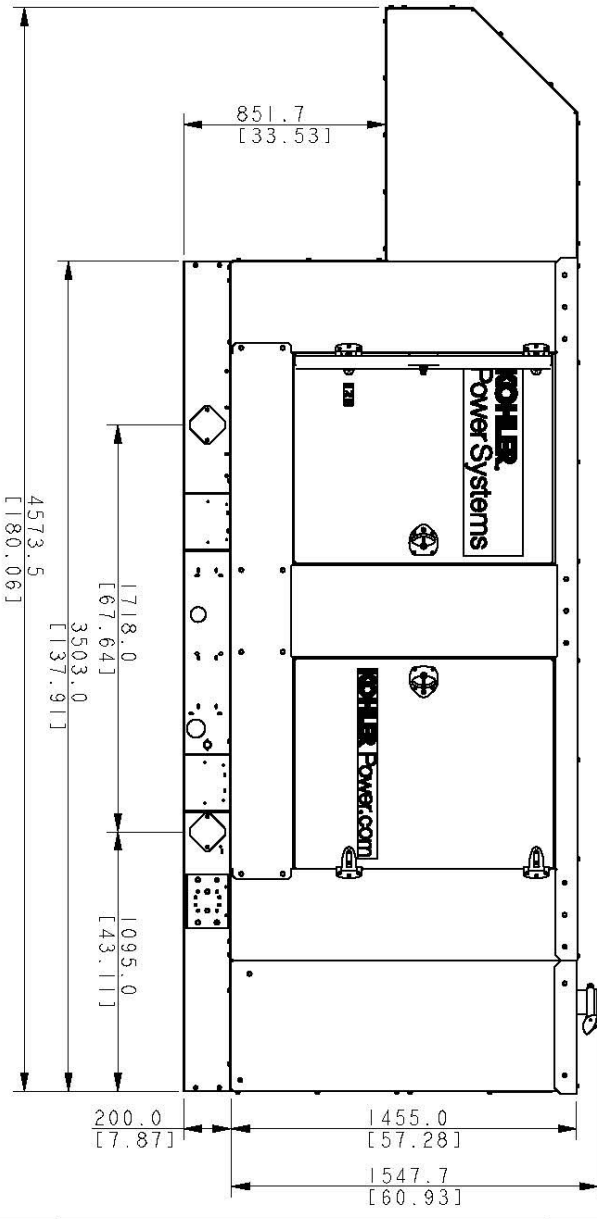
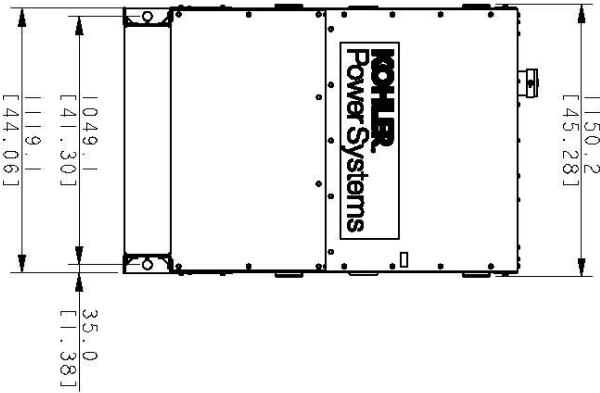
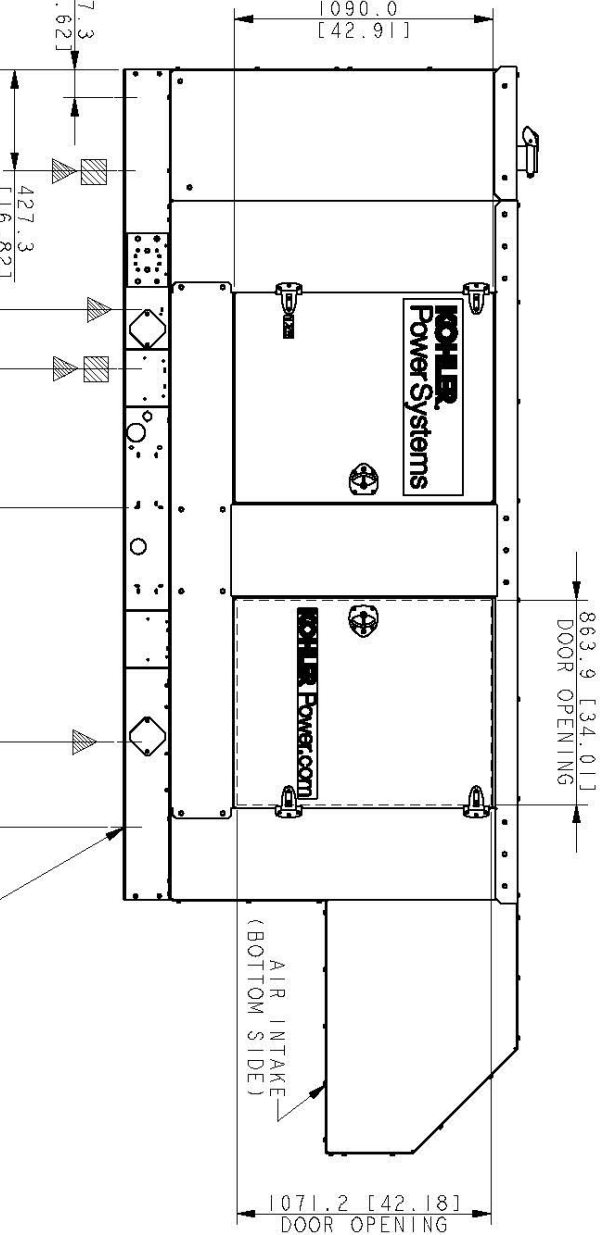
▲ DANGER



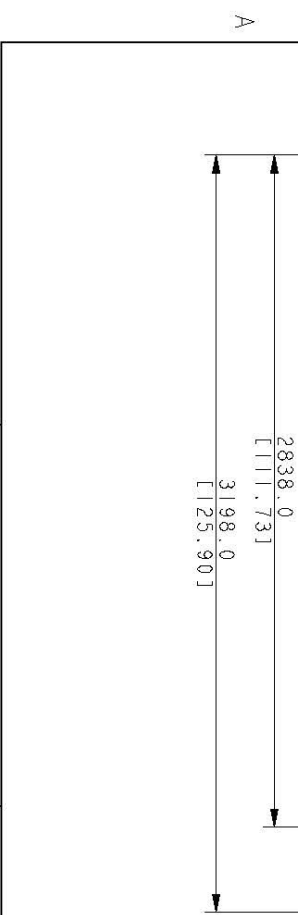
MODEL	ENCLOSURE WEIGHT KG [LBS]
ALUMINIUM SOUND	317 [700]



- NOTES:
1. IF TANK IS ORDERED, ENCLOSURE MOUNTS DIRECTLY TO TANK
 2. TANK MAY EXTEND BEYOND ENCLOSURE (DISCHARGE END ONLY)
- DIMENSIONS IN [] ARE INCH EQUIVALENTS



REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN MILLIMETERS 2) TOLERANCES ARE: X.X ± 0.25 X.X ± 1.5 ANGLES ± 0° 30' MAX	SURFACE FINISH	THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.	TITLE
-	12-23-14	NEW DRAWING [C788261]	PKR				POWER SYSTEMS KOHLER, WI. 53044 U.S.A.
							IMPROVE MOTOR STARTING (IMS) RECONNECTABLE 600V & 1 PHASE ALTERNATORS 4045HF285 & 6068HF285 JOHN DEERE TIER III
							125 MODEL 4S11, 4S13, 4R12X, 4R13X, 4T13X, 4S12X, 4S13X, 4T13X, 4S13X
							150 MODEL 4S13, 4S15, 4R13X, 4T13X, 4S12X, 4S13X
							APPROVALS
							DATE
							PKR 12-23-14
							CHECKED CCL 12-23-14
							APPROVED DA 12-23-14
							SCALE 0.07
							SHEET 1 of 1
							ADV-8763
							D



125 MODEL 4S11, 4S13, 4R12X, 4R13X, 4T13X, 4S12X, 4S13X
150 MODEL 4S13, 4S15, 4R13X, 4T13X, 4S12X, 4S13X
RECONNECTABLE
IMPROVE MOTOR STARTING (IMS) RECONNECTABLE
600V & 1 PHASE ALTERNATORS
4045HF285 & 6068HF285 JOHN DEERE TIER III







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