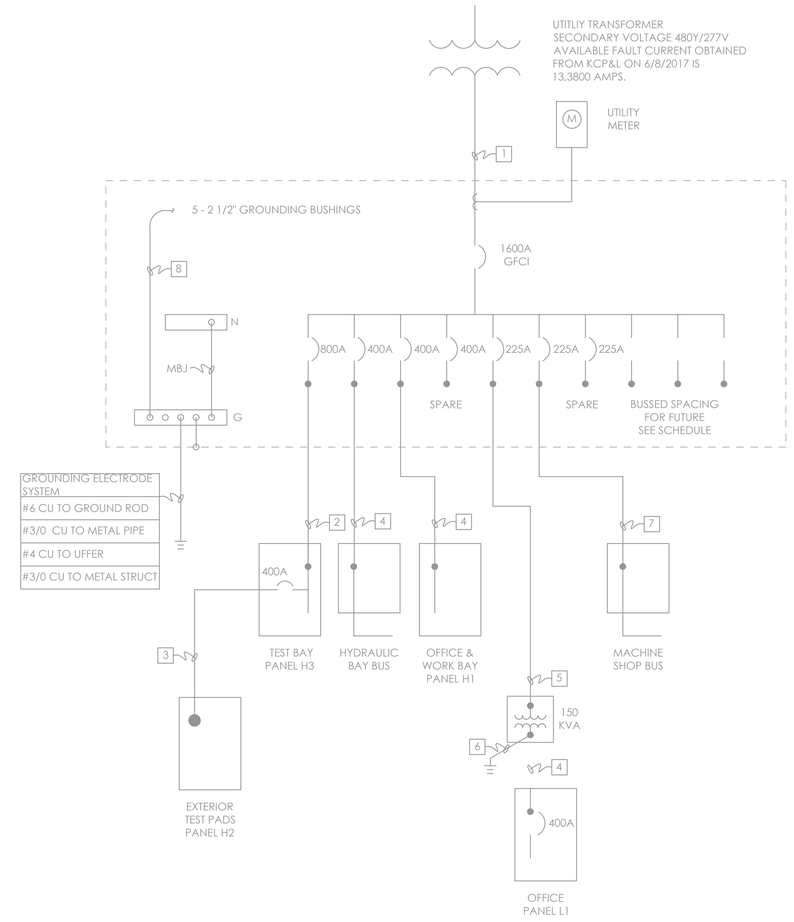
SWITCHBOARD: MDP MAIN SECTION:

MAIN: 1600 AMP GFCI | VOLTAGE: 480 | TYPE: SQ.D
BUS: 1600 AMP | PHASE: 3 | LOCATION: MAIN ELECTRICAL ROOM
WIRE: 4 | SERVICE ENTRANCE RATED (FAULT CURRENT RECEIVED FROM KCP&L ON 6/8/17 IS 38,807 AMPS)
FEEDER: (4) PARALLEL RUNS OF 3" CONDUIT EACH WITH (4) #400 kcmil THWN Cu.

CCT NO	DESCRIPTION	SWITCH	WIRE / CONDUIT	KVA LOAD	REMARKS
1.	PANEL H1	400	(4) #500kcmil THWN Cu & (1) #3 GND / (1) - 3 1/2" CONDUIT	188.9	
2.	150 Kva TRANSFORMER - PANEL L1	225	(3)- #4/0 THWN Cu, 2 1/2" C	100.2	
3.	PANEL H3	800	(2) PARALLEL RUNS OF 3" EA WITH (4)-#500 KCMIL & (1)-#1/0 GND EACH	531.0	
4.	HYDRAULIC BAY BUS SYSTEM	400	(4) #500kcmil THWN Cu & (1) #3 GND / (1) - 3 1/2" CONDUIT	232.3	
5.	MACHINE SHOP STARLINE BUS	225	(4) #4/0 THWN Cu & (1) #4 GND / (1) - 2 1/2" CONDUIT	82.3	
6.	SPARE	400			
7.	SPARE	225			
8.	SPACE FOR 400 A BKR				
9.	SPACE FOR 400 A BKR				
16.	SPACE FOR 200 A BKR				
17.	SPACE FOR 200 A BKR				
18.	SPACE FOR 100 A BKR				
19.	SPACE FOR 100 A BKR				

TOTAL CONNECTED LOAD: 1134.6 KVA
1364.8 AMPS



WIRE SCHDEDULE	
1	(4) @ 2 ½" CONDUIT EACH WITH (4) - #400 KCMIL THWN CU
2	(3) @ 2 ½" CONDUIT EACH WITH (4) - #250 KCMIL THWN CU & 1/0 CU GROUND
3	(2) @ 3" PVC EATH WITH (4) - #300 KCMIL THWN AL & (1) - #1/0 THWN AL. GROUND (SIZED FOR VOLTAGE DROP)
4	(2) @ 2" CONDUIT EACH WITH (4) - #3/0 THWN CU & (1) @ #3 CU GROUND
5	(1) @ 2" CONDUIT EACH WITH (3) - #4/0 THWN CU & (1) - #4 CU GROUND
6	#2 GROUND TO BUILDING STEEL
7	(1) @ 2 1/2" CONDUIT EACH WITH (4) - #4/0 THWN CU & (1)- #4 CU GROUND
8	SUPPLY-SIDE EQUIPMENT BONDING JUMPER - NEC 250.102; SINGLE 2KO KCMI (1) CU THRU (5) FITTINGS OR (5) - #2 CU (ONE TO EACH CONDUIT

RS ELECTRIC Corp
302 Messanie St.
St. Joseph, MO 64501
Office- 816-233-7751

NO.	DATE	REVISION	BY

DWG TITLE

ALTEC DESIGN ASSURANCE ONE LINE RISER & PANEL SCHEDULE

ENGINEER	CHECKED BY M. HILMAN
JOB NO	DRAWN BY D. MEALS
SCALE DNS	DATE 6/9/2017

DWG NO
E4.01

SHEET NO
12 OF 13