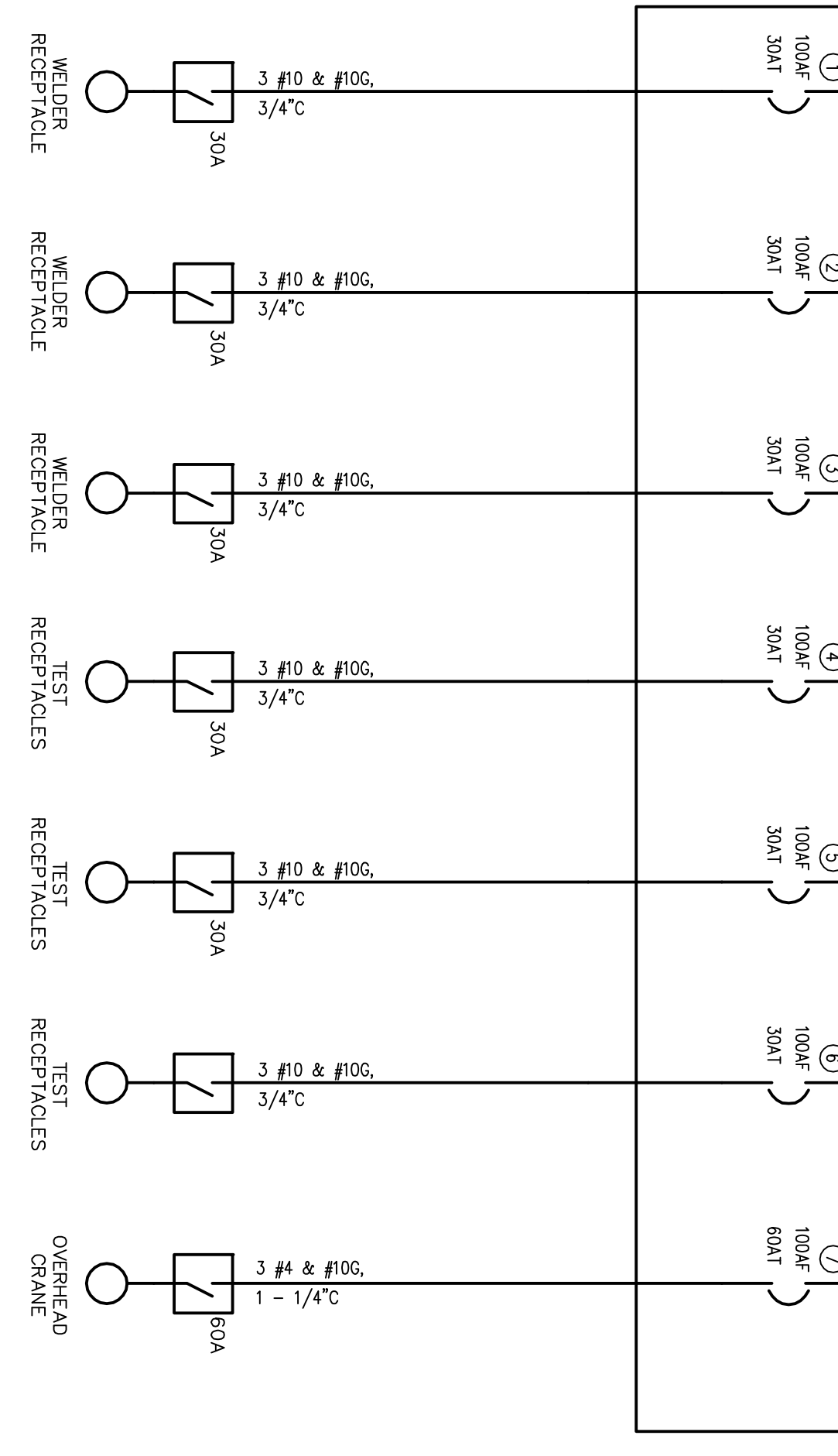
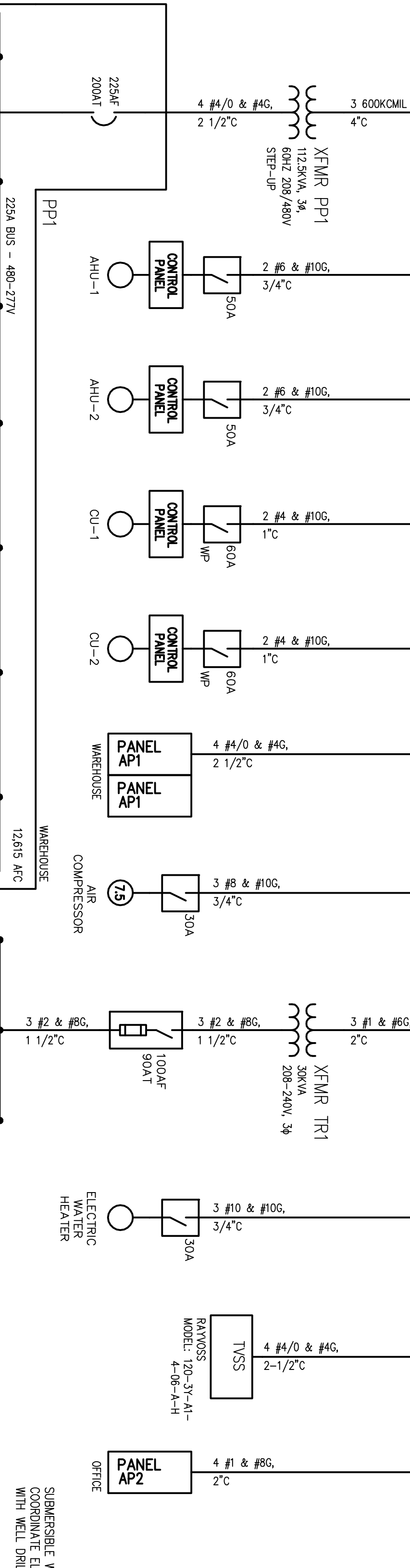
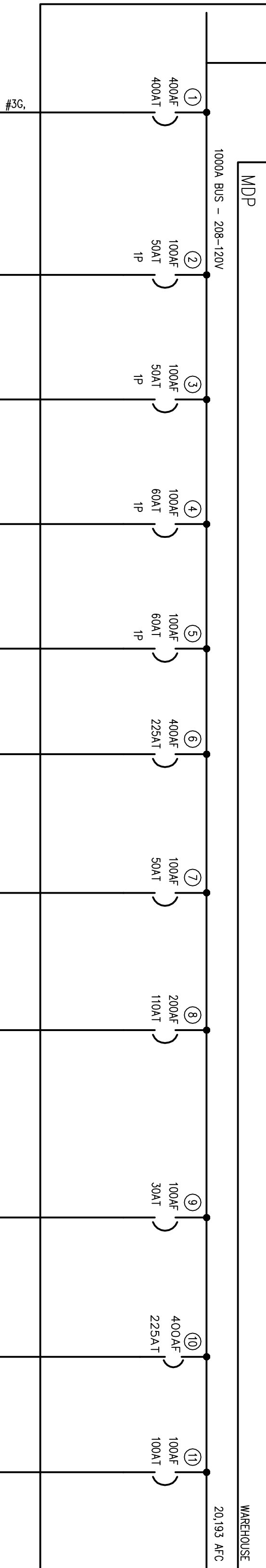
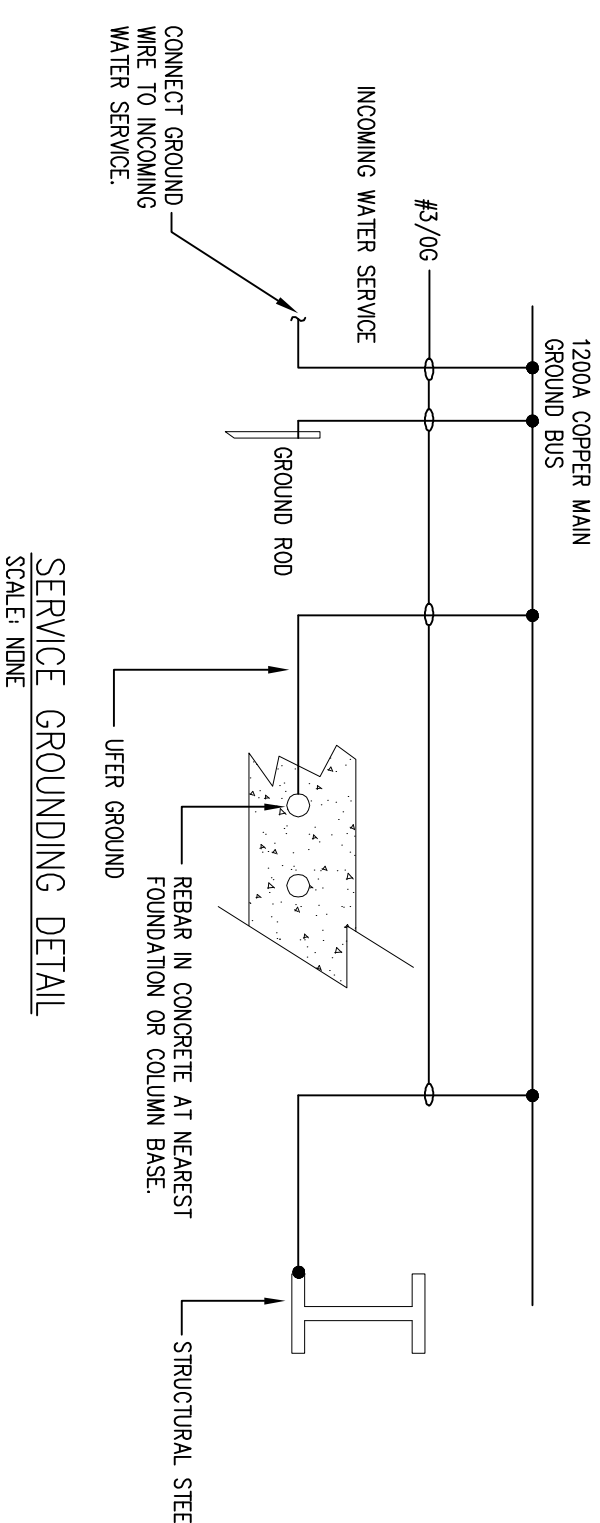


FOR THE AVAILABLE FAULT CURRENT
FOR THE AVAILABLE FAULT CURRENT
500KA UTILITY TRANSFORMER WITH
INFINITE AVAILABLE FAULT CURRENT A
7 - 0" ϕ
AFC = 27,758

THE CONTRACTOR SHALL COMPONENT THE
EQUIPMENT.
THE UTILITY COMPANY PRIOR TO ORDERING
EQUIPMENT.

- GENERAL NOTES:**
- UNLESS OTHERWISE NOTED, ALL CIRCUIT BREAKERS AND/OR FUSES/SWITCHES SHOWN ARE 3 POLE TYPE.
 - UNLESS OTHERWISE NOTED, THE AVAILABLE FAULT CURRENT (AFC) SHALL BE THE AVAILABLE FAULT CURRENT FOR THE EQUIPMENT THE EQUIPMENT PROVIDED IS EQUAL OR GREATER THAN THE AVAILABLE FAULT CURRENT (AFC).
 - THE CONTRACTOR SHALL ASSUME FOR DOUBLE PANELS THERE WILL BE FEED-THROUGH LUGS FROM SECTION 1 OF 2 AND THAT THE CABLES AND CONDUITS FEEDING SECTION 2 OF 2 WILL BE THE SAME SIZE AS THE FEEDER CONDUITS AND CONDUITS(S).
 - UNLESS OTHERWISE NOTED, ALL CONDUCTOR SIZES SHOWN ARE COPPER TYPE.



LOAD SUMMARY

Panel	Panel Description	Load (kVA)	Load (MW)
PP1	Panel PP1	238	0.238
AP1	Panel AP1	480	0.480
AP2	Panel AP2	124	0.124
TOTAL		842	0.842

MAIN CIRCUIT BREAKER AVAILABLE FAULT CURRENT

Section	Panel	Panel Description	Available Fault Current (kA)
SECTION 1	PP1	Panel PP1	500
SECTION 2	AP1	Panel AP1	27,758
SECTION 3	AP2	Panel AP2	27,758

PHASE TOTAL (VA) 1148 1529 1135

Panel	Panel Description	Phase 1 (VA)	Phase 2 (VA)	Phase 3 (VA)
PP1	Panel PP1	1148	1529	1135
AP1	Panel AP1	1148	1529	1135
AP2	Panel AP2	1148	1529	1135

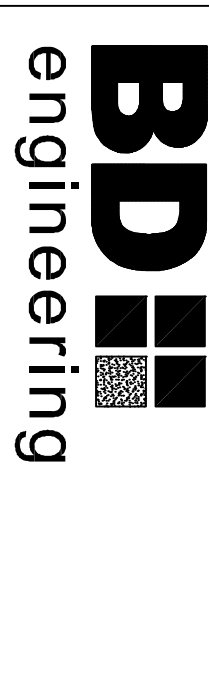
PHASE TOTAL (VA) 3292 5431 2693

Panel	Panel Description	Phase 1 (VA)	Phase 2 (VA)	Phase 3 (VA)
PP1	Panel PP1	3292	5431	2693
AP1	Panel AP1	3292	5431	2693
AP2	Panel AP2	3292	5431	2693

no.	By	description	date
1		Issued For Permit & Construction	6/03/09
2		Issued For Client Review	3/24/09

New Shop & Office Building for Shupper-Brickle Equipment Co.
11 Burnt Tavern Road
Millstone Township, NJ 08535
Block: 57
Lot: 14.01

BRIAN D. TANNENHAUS
NJ PROFESSIONAL ENGINEER
NO. CE 45901
DATE: June 3, 2009



NJ CERTIFICATE OF AUTHORIZATION - 24028116100
BD Engineering, LLC
1825 Southshore Ave. Lakewood, NJ 08701
Project No. 0800056

DRAWN BY: BT
CHECKED BY: BT
SCALE: NONE

DRAWING TITLE: ELECTRICAL ONE LINE DIAGRAM
DRAWING NO. E4.1