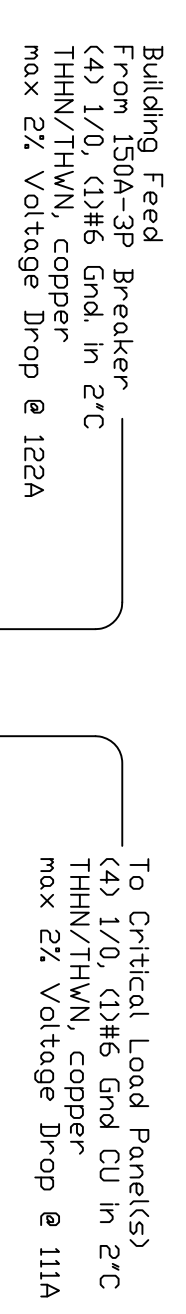
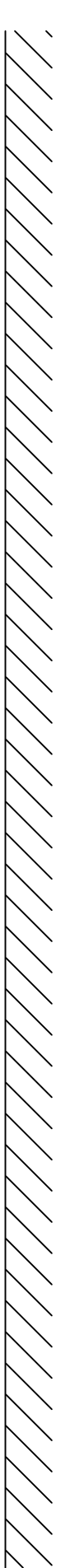
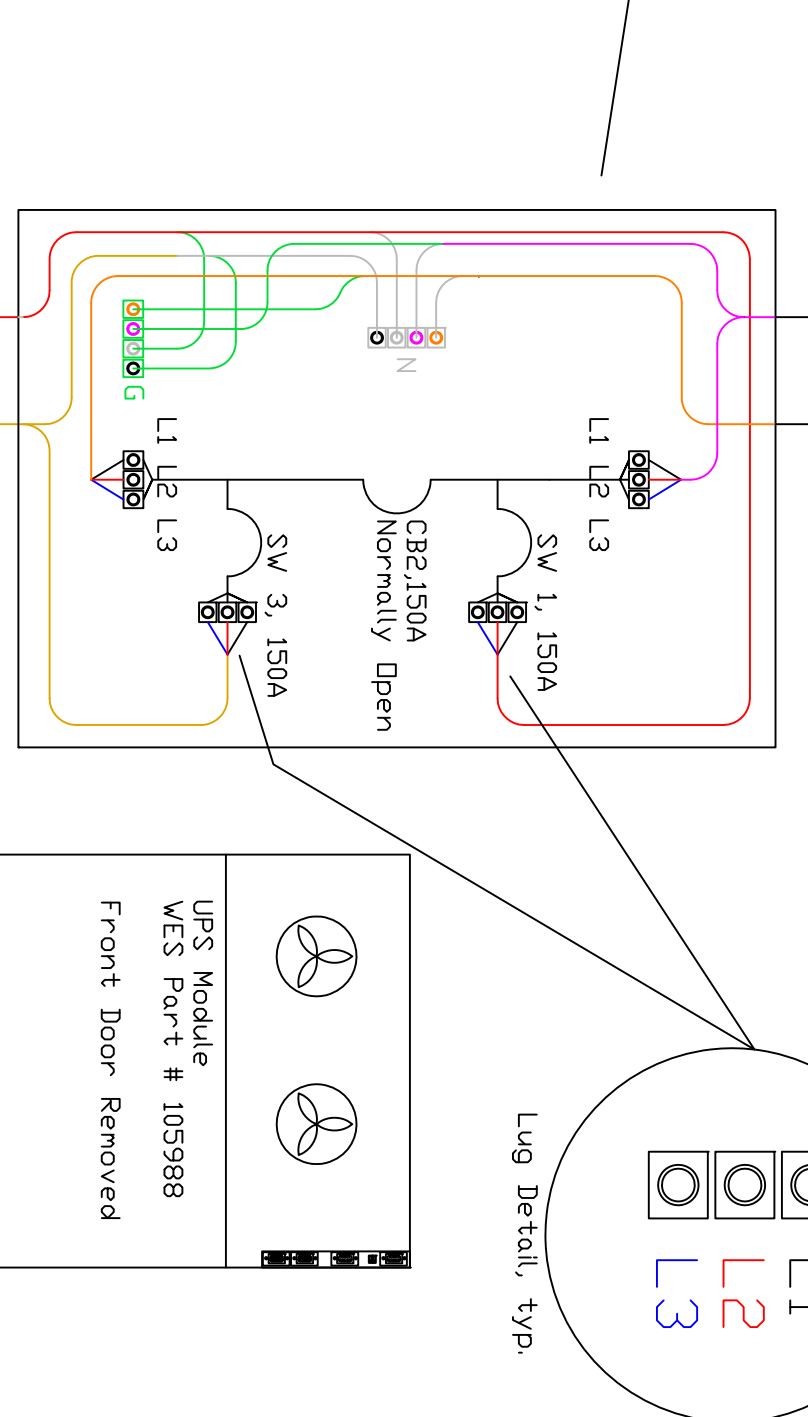


1	Add Rev'd Note, Modify Scope	8/23/13	TEW	REVISIONS
0	ORIGINAL			
		6/1/13	TEW	APPROVED



External Maintenance Bypass Panel
WES Part # 10670

Knockout Centerlines:
UPS Input (CB1)
12" from left for UPS Output (CB3)
MBP Input: locate as required, align with above if top entry
MBP Output: locate as required, align with above if top entry
Wall Mounted - Top of Panel 80" AFF

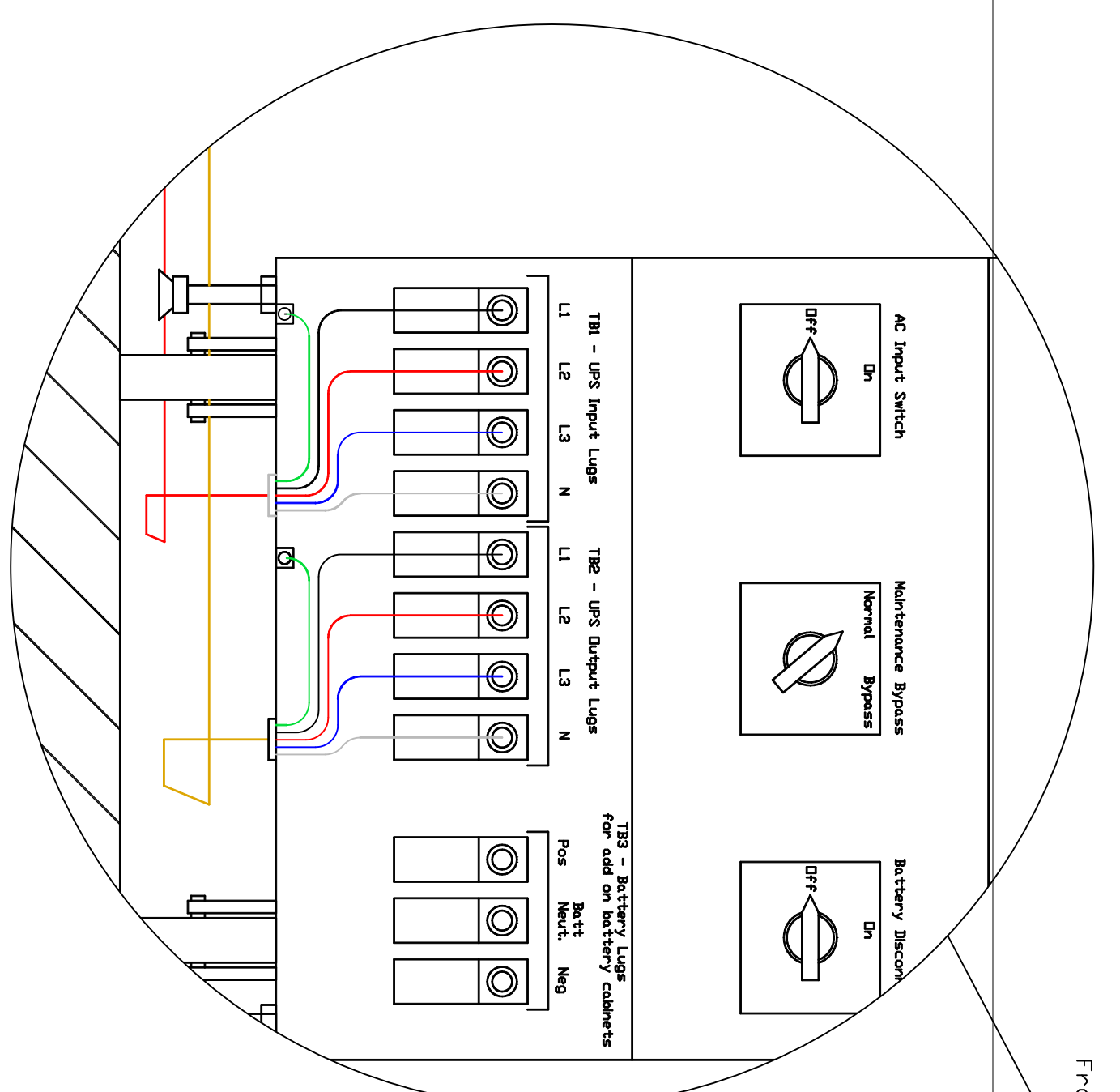
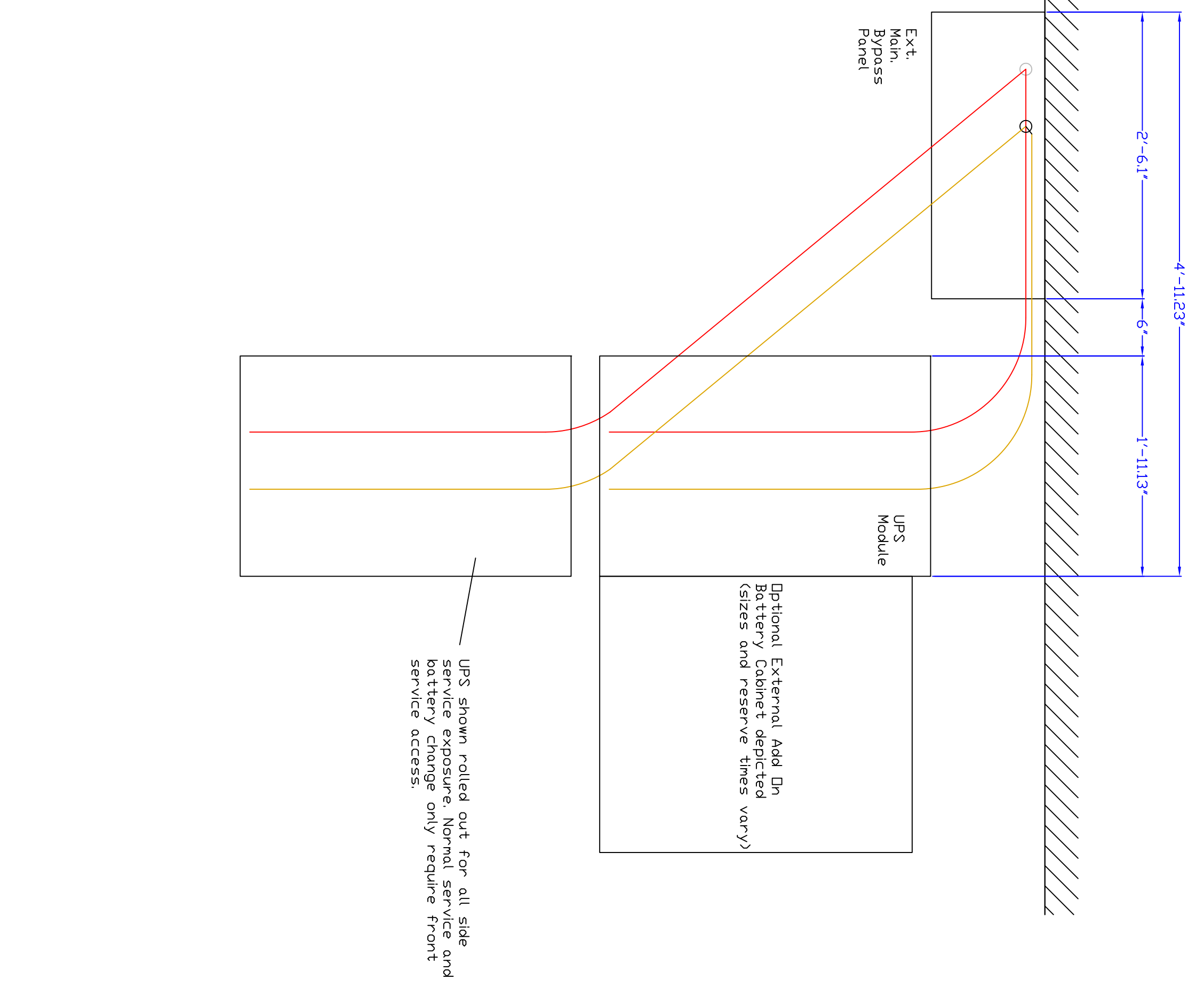
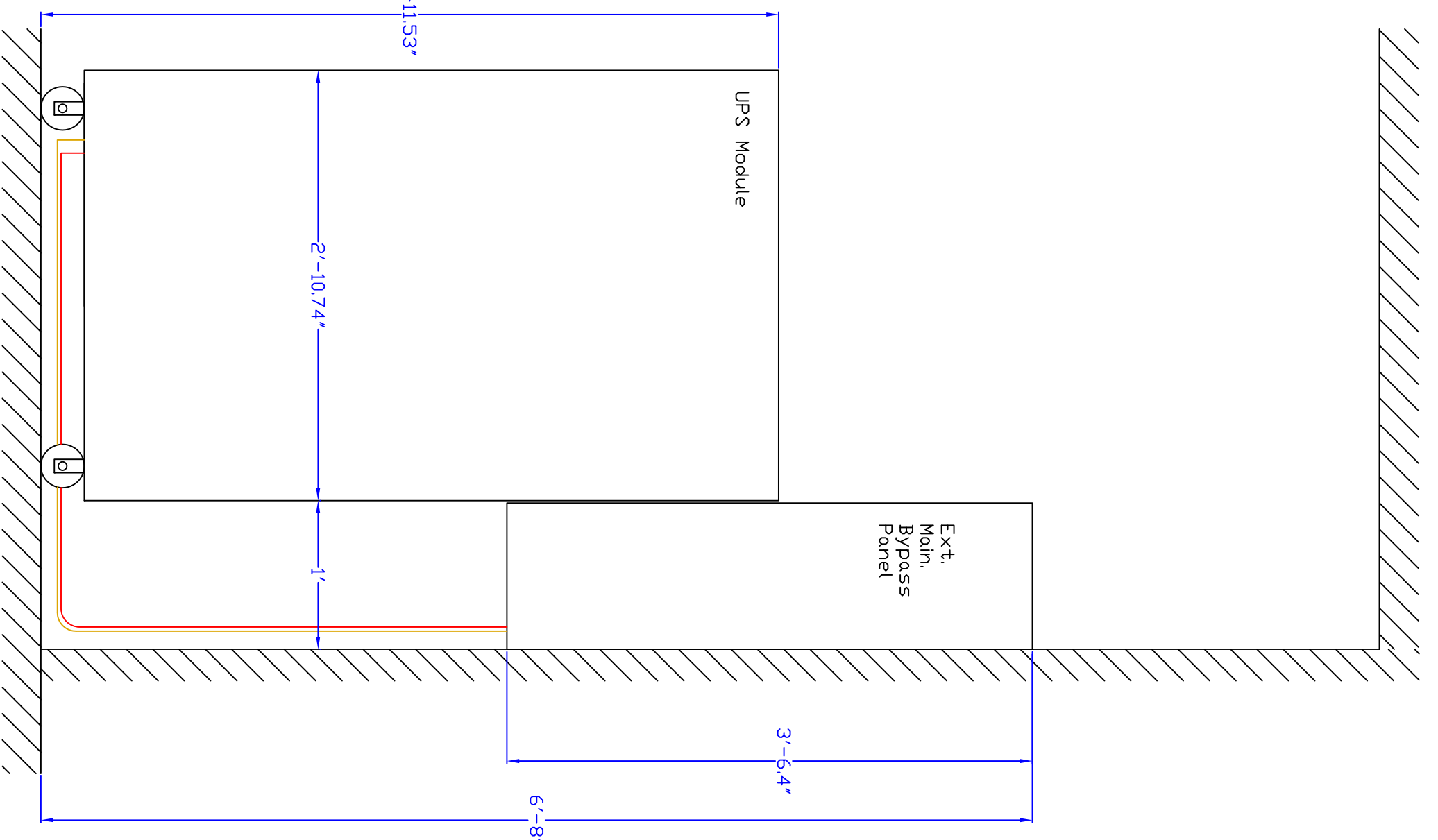
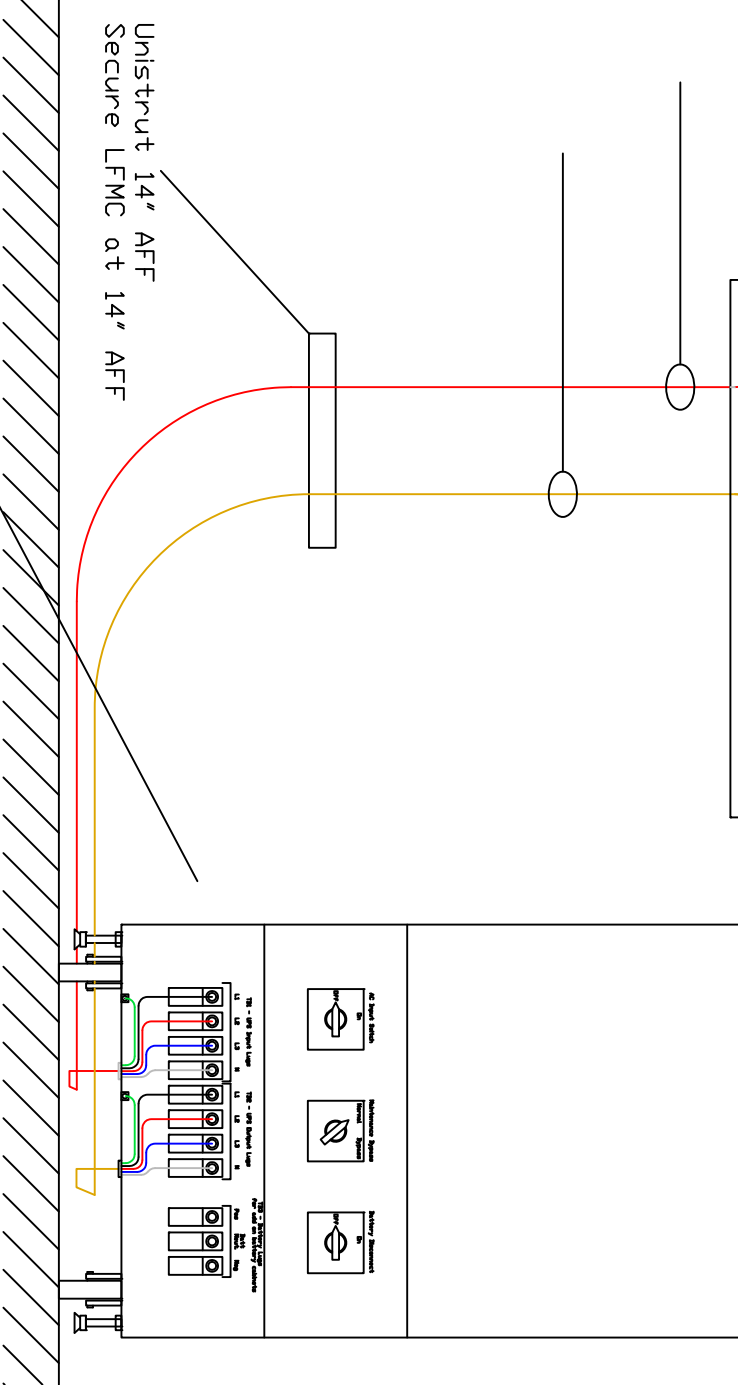


40 kVA Installations:

(4) 1/0 AWG, (1) #6 AWG Gnd, CU THHN, 2" LFMC, 10'9" length
(10) pigtails at panel, 24" pigtails at UPS end, gray color
WES Part # 106663

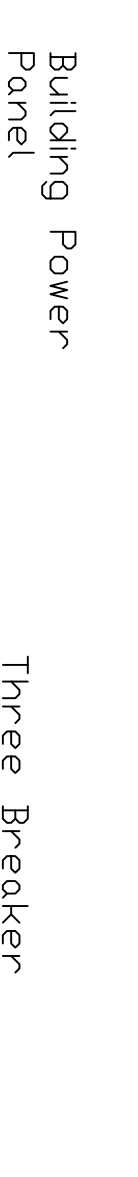
(4) 1/0 AWG, (1) #6 AWG Gnd, CU THHN, 2" LFMC, 10'9" length
(10) pigtails at panel, 24" pigtails at UPS end, blue color
LEP6, Liquidtight fittings, 90 at UPS and straight at MBP
WES Part # 106664

Remote Emergency Power Off Wall Station (WES Part #106153, not shown) to be mounted near exit doorway. Wall Station includes guarded cover and audible alert when guard is lifted.

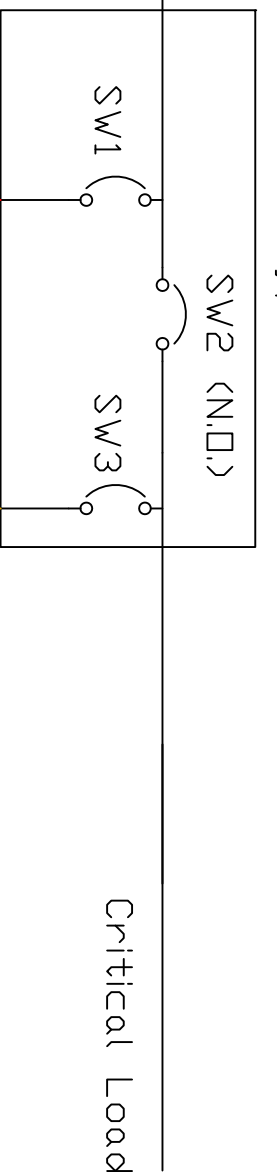


UPS Specifications	
Output kVA	40 kVA
Output kW	36 kW
Input Voltage	120/208/3, 4W + G
Input Voltage-Tolerance	177 to 239 VAC
Input Current THD	1% Full load, 2% Half Load
Input Frequency Range	43 to 67 Hz
Output Voltage	120/208/3, 4W + G
Output Voltage THD	2%
Overload Capability (on inverter)	300% for 10 seconds
Rectifier Type	7.5 KHz IGBT
Inverter Type	7.5 KHz IGBT
Battery Type	VRLA, 432 VDC
Internal Battery Reserve Time	5 minutes
Power Paths	Main, static, internal MBP, external MBP
Warranty	2 Years
PHS during Warranty	1 / year
Heat Rejection	12,100 BTU/Hr
Audible Noise	54 dBA @ 3'
On Board Controller	Color LCD, Graphical
Web/SNMP Enabled	Yes
Alarm Contacts	Yes, 6 programmable
Modbus Communications	Yes

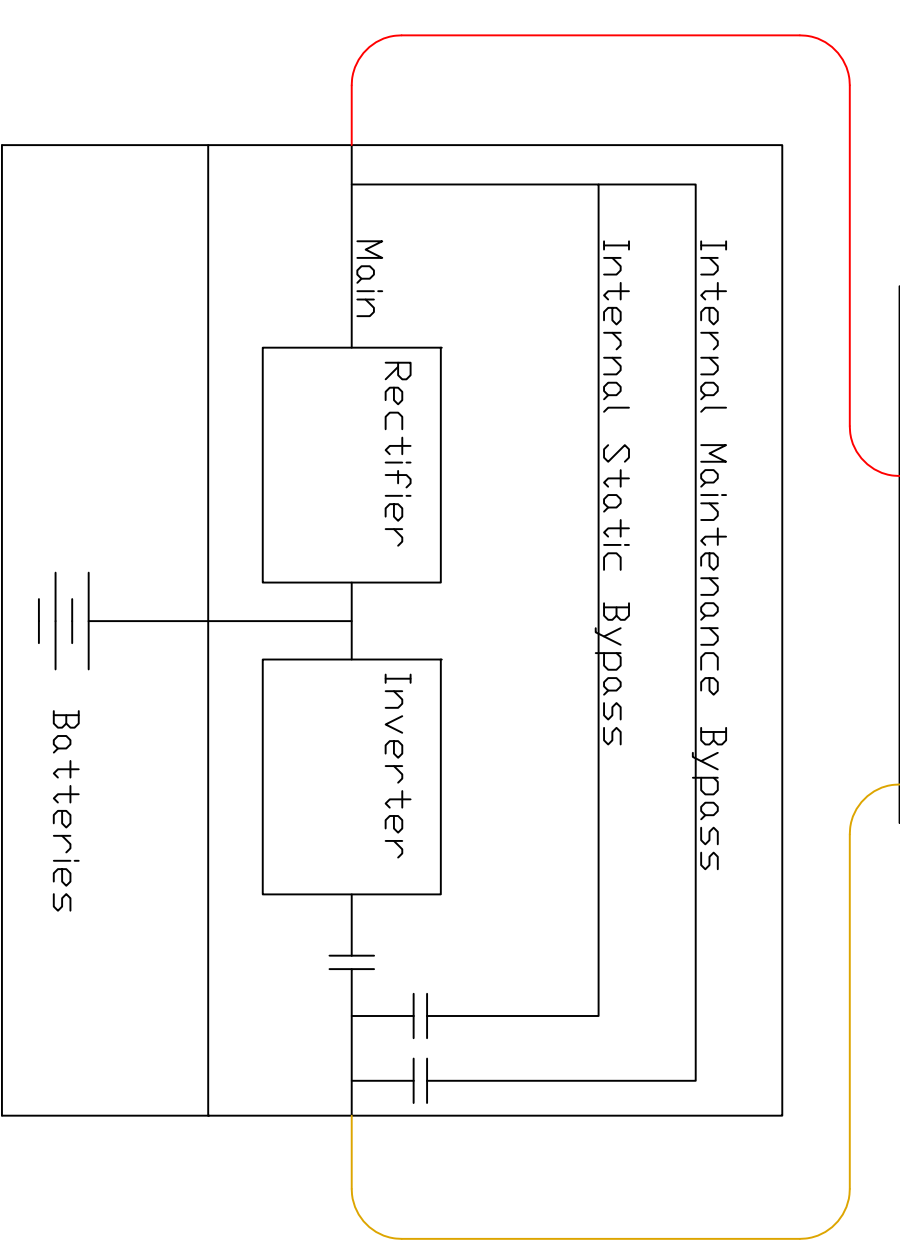
UPS Connections Detail



Building Power Panel



Critical Load



Top View

- EC Installation Scope
- 1) Provide Feed Breaker and Circuit to MBP Panel
 - 2) Provide Load Panels (not shown)
 - 3) Provide Circuit from MBP Panel to Load Panels
 - 4) Mount MBP Panel and Unistrut below UPS
 - 5) Mount MBP Panel and Unistrut below UPS
 - 6) All conductors to be copper
 - 7) Maintain phasing throughout - Mark each conductor at both ends prior to pulling.
- WES Scope
- 1) Provide MBP, (2) LFMC, UPS, REPD
 - 2) Deliver and set in place UPS module
 - 3) Mount and connect REPD
 - 4) Mount and connect REPD
 - 5) Check, test and startup UPS
 - 6) Provide PHS during warranty.
- Note
- 1) Circuit sizing is based upon specific UPS proposed by Wilson Engineered Systems and may not reflect alternate UPS systems which may require different sized IGBT wiring

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Wilson Engineered Systems, Inc.
11501 Columbia Park Drive West, Bldg 100
Jacksonville, FL 32258

40 kVA/ 36 kW UPS
120/208 3 Phase
Installation Details

STATUS	SIZE	PROJECT NO.	DATE
FOR INFORMATION ONLY	D	W-100519 (40)	6/1/13
NOT FOR CONSTRUCTION	SCALE		