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Question

Today, 03:55 PM

#1

BSelff

New Member

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Main Panel to Sub Panel

I currently have a CH MBE4040B200BTS Meter main panel on my pump house drawing only power to run booster and well pumps, here is what I wish to do:
Add a CH BRS225 (feed thru) to a CH BR4040B200 Main Breaker sub panel for my shop. Both panels are only 200 amp service, I will not be running more than the compressor and 1 other item at a time (aside from lighting). Does anyone foresee a problem with my thoughts?? I have a PDF file of my shop elec drawing and the hookup.

Thanks,
Bob

Attached Images

 [Pump To Shop Elect.pdf](#) (11.8 KB, 2 views)

 [Shop Electrical layout.pdf](#) (40.2 KB, 2 views)

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Today, 06:35 PM

#2 Report Inappropriate Post

tkrussell

Electrical Expert

User Offline



Join Date: Jan 2005

Location: New

England, USA

Posts: 2,502



[Pay to call](#) tkrussell
for advice (\$1.00 /
min)



I see no problem with it, looks like a good use of the 200 amp service now just for the pump.

You may want to consider using #4/0 Aluminum instead of the #2/0 copper, one to save a ton of cash, but more importantly reduce voltage drop. If you have a 100 amp load in the shop, the #2/0 will produce a 10 volt drop, which is more than the recommended 3%. If you use #4/0 Al for the same load and distance, the volts dropped will be about 3.5 volts, well below the 3%.

The feeder to the subpanel should be 4 wire, and at least one ground rod will be needed to ground the equipment ground at the subpanel. Keep the neutral and equipment ground separated at the subpanel.

I hope this helps, do not hesitate to get back with any other comments or questions.

Please Note:

All of my answers are based on over 30 years experience with the National Electric Code, as adopted in the United States. Local and state codes should always be reviewed for changes, waivers, and special local codes.

Oh, and Smoke Detectors Saves Lives!

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Today, 06:41 PM

#3

BSelff

New Member

User Online

Join Date: May 2007

Posts: 2



I have had them install a Eufer (ground bar attached to the rebar in the slab) in the workshop for grounding it separately.

Bob

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