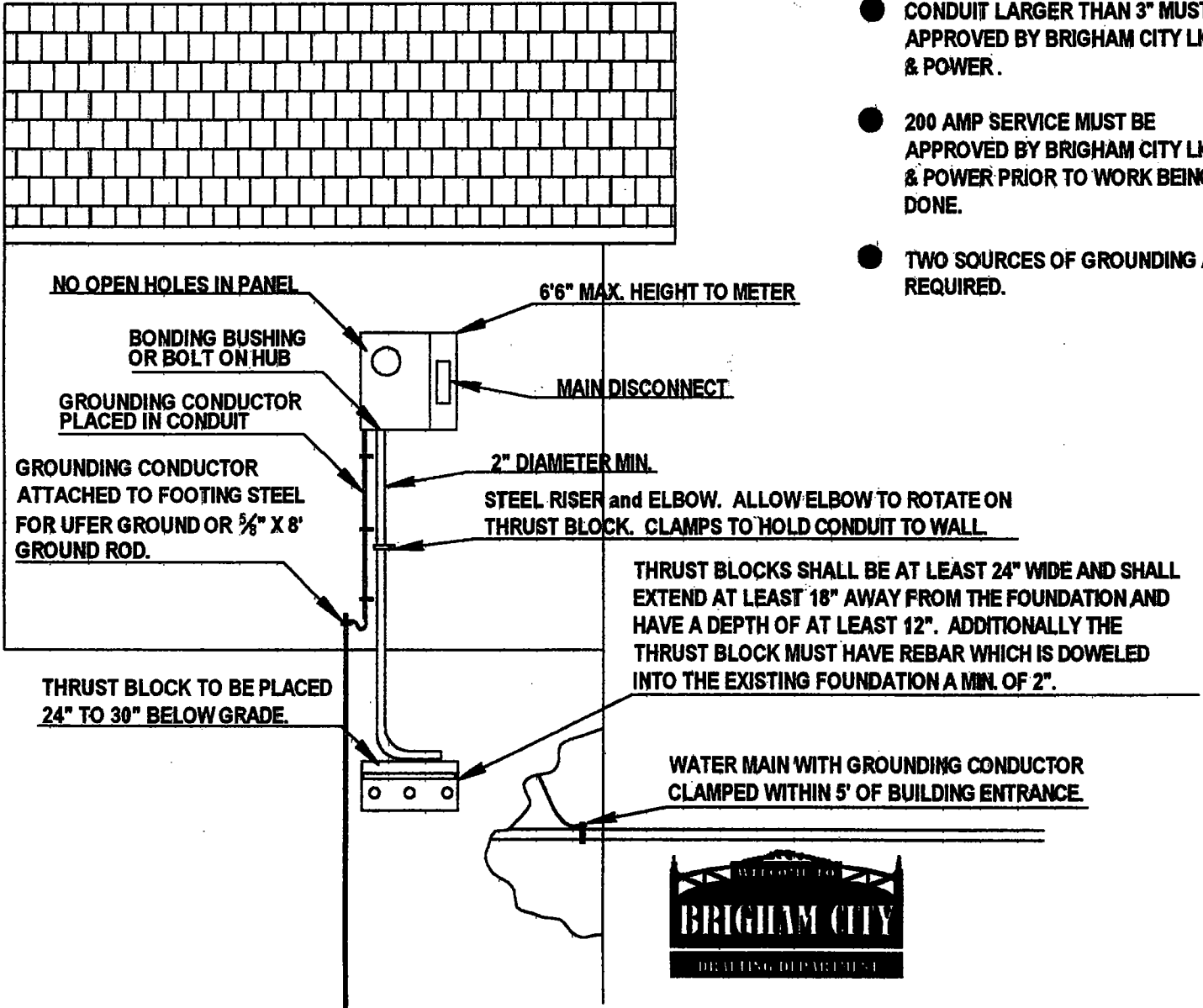


PERMANENT UNDERGROUND



- CONDUIT LARGER THAN 3" MUST BE APPROVED BY BRIGHAM CITY LIGHT & POWER.
- 200 AMP SERVICE MUST BE APPROVED BY BRIGHAM CITY LIGHT & POWER PRIOR TO WORK BEING DONE.
- TWO SOURCES OF GROUNDING ARE REQUIRED.

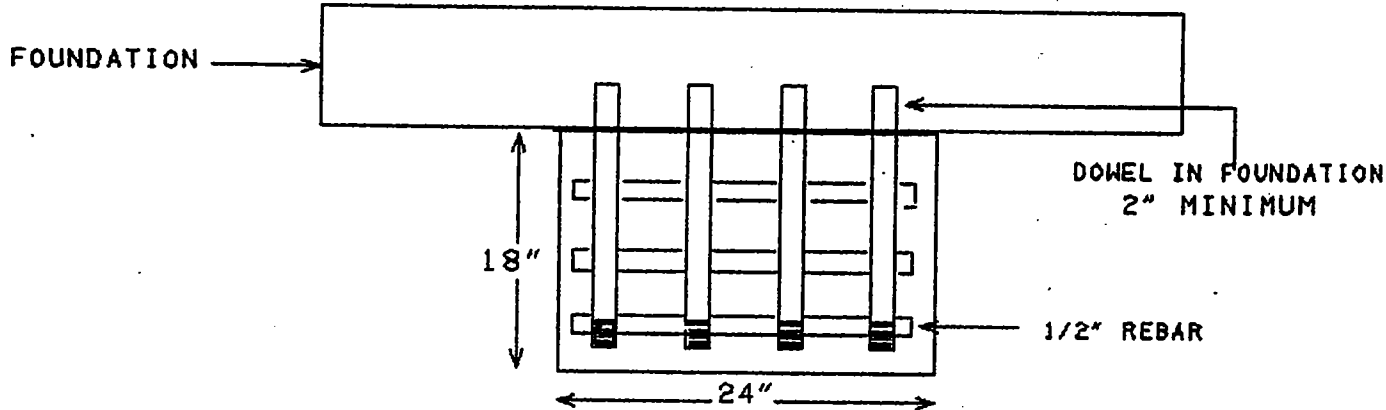




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Power to Panel

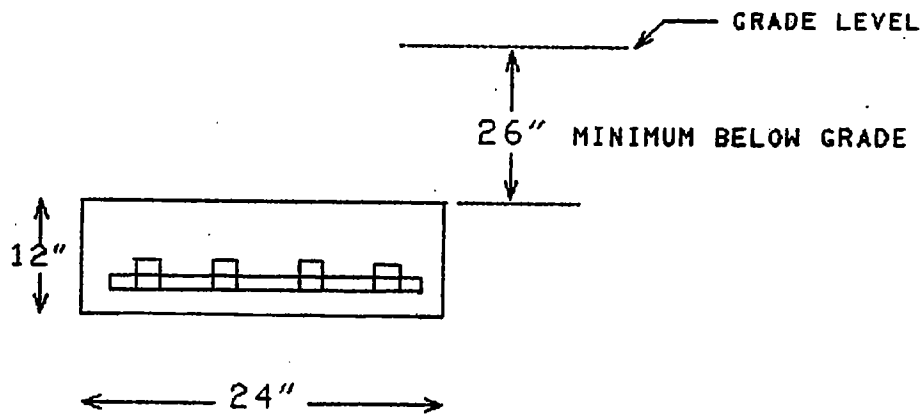
1. Thrust block is needed at all underground services. It shall contain 4 #4 rebar doveled 2" into foundation and 3 #4 rebar tied perpendicular to those. All rebar is to be spaced 4" O.C.. Thrust block shall be 24" wide, 12" tall, and 18" deep. Thrust block shall be a minimum of 26" deep to the top.
2. All over head services must meet the proper clearance requirement as per the 2002 NEC. The clearance from the roof to the bottom of the service entrance conductors must be 8' unless the roof has a sloop greater than 3/12 pitch at with it only has to be 3'. You can also have a reduction in clearance if you are just extending over the overhang portion of the roof and in that case you only need to be 3'.
3. Service conductors sized appropriately for service size. For 100 amps a #2 aluminum is needed, for 125 amps 1/0 aluminum is needed, for 150 amps 2/0 aluminum is needed, and for 200 amps 4/0 aluminum is needed. (This is for single family dwellings only)
4. Overhead 200 amp services must be pre-approved prior to work being installed
5. Panel, conduit, etc. are all properly bonded
6. Grounding meets the requirements of NEC. All new construction shall have a ufer ground.
7. Mast for overhead connections is 2" min. rigid with a weather head and 18" min of conductor protruding
8. Conduit has been strapped to building within 3' of panel
9. Feeders to sub-panel sized appropriately. See # 3 for sizing
10. Sub-panel wired correctly with cover on.



TOP VIEW

BRIGHAM LIGHT & POWER
CONCRETE THRUST BLOCK
FOR UNDERGROUND CONDUIT

CONDUIT OVER 3" CONTACT
LIGHT & POWER DEPARTMENT



END VIEW