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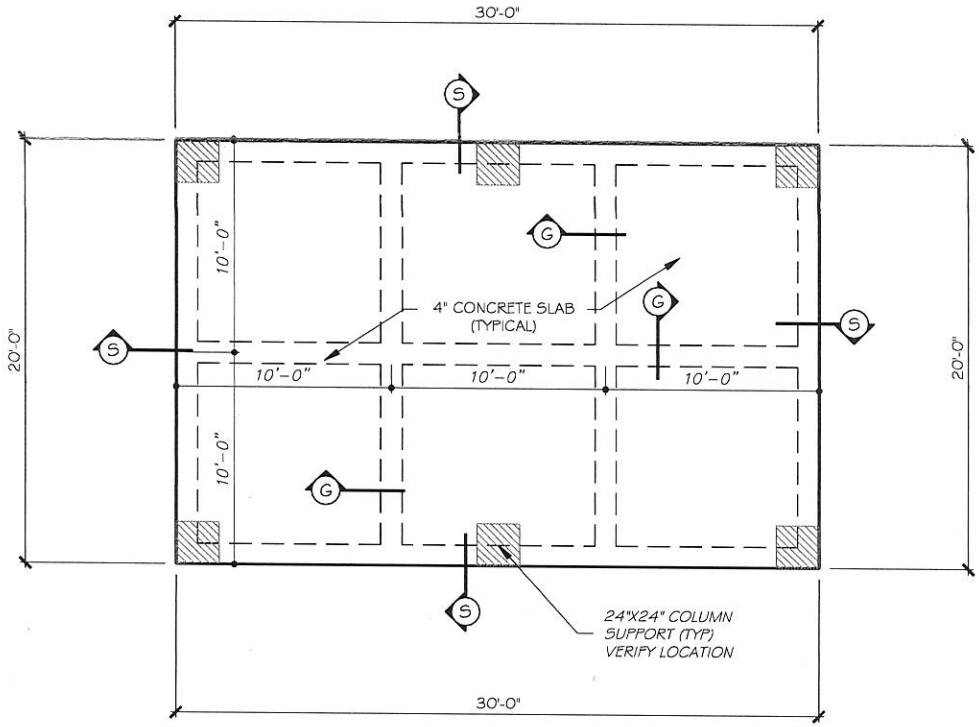


VERIFY ALL DIMENSIONS WITH OWNER/BUILDER

GENERAL NOTES

I. General Conditions

A. Design Loads are as follows:
Roof live Loads (Reduce where applicable) 20 PSF
Wind Load Pressure 20 PSF
B. Roof Structure shall be designed in accordance with the local building codes.
C. All existing conditions shall be field verified.

II. Site

A. All footings shall be placed in naturally occurring soil or recompacted fill approximately 12" below natural grade.
B. Placement of fill shall be as follows:
1. The sub-grade should be stripped of all vegetation and organic materials
2. The exposed soils should be compacted to a density equivalent of ninety-five percent (95%) of the maximum dry unit weight as determined by ASTM D-698 at a moisture content between zero to three percent (0%-3%) above optimum.
3. Additional fill material where required should be placed in loose lifts not exceeding eight inches (8") and compacted to ninety-five percent (95%) of the maximum dry unit weight as determined by ASTM D-698. The moisture content of the compacted soil should be kept at moisture content between zero to three percent (0%-3%) above optimum. On-site near surface soils should perform adequately as fill material.
4. Select fill should consist of sandy clay or clayey sand with a plasticity index between four (4) and fifteen (15). The liquid limit should not exceed thirty (30). The fill should be placed in loose lifts not exceeding eight inches (8") and compacted to a minimum of ninety-five percent (95%) of the maximum dry unit weight as determined by ASTM D-698. It is recommended that the moisture content of the soil be between zero to two percent (0%-2%) above optimum.
C. Fine grading under slab to be granular or select fill.
D. Contractor shall brace wall or grade beam while placing backfill or fill material.

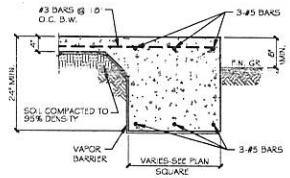
III. Concrete

A. Concrete shall have a minimum compressive strength of 3500 PSI at 28 days.
B. Reinforcing steel shall be ASTM A615 grade 40 for #3 and grade 60 for #4 and larger as shown.
C. Lap all reinforcing splices 36" unless noted otherwise.
D. All reinforcement shall be detailed in accordance with the latest ACI detailing manual.
E. Contractor shall coordinate all penetrations, conduit, chamfers and embedded items prior to concrete placement.

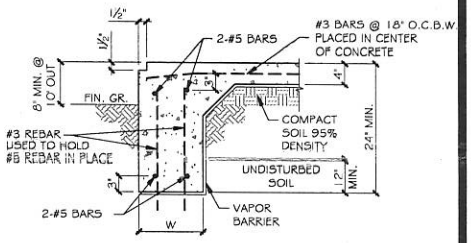
IV. Masonry

A. Mortar shall be type M or S.
B. Bond shall be provided by lapping units in successive vertical courses.
C. Expansion joints are recommended below the windows.

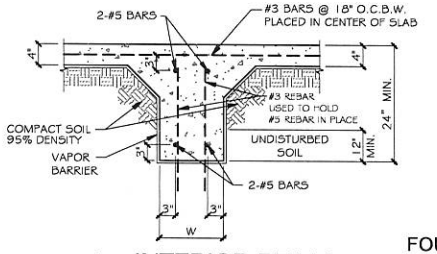
NOTE:
COLUMN SUPPORTS ARE REQUIRED BY B-HEI TO ENSURE STRUCTURAL STABILITY OF FOUNDATION AND ARE NOT TO BE CONSIDERED OPTIONAL. FAILURE TO INCLUDE COLUMN SUPPORTS RELIEVES B-HEI OF LIABILITY ASSOCIATED WITH THEIR OMISSION. OMISSION WILL RESULT IN AUTOMATIC FAILURE OF ANY SUBSEQUENT INSPECTION PERFORMED BY B-HEI.



COLUMN SUPPORT
NTS



S EXTERIOR BEAM - SIDING



G INTERIOR BEAM

A Geotechnical report has not been provided for this design. Barnett-Herron Engineering, Inc. and the engineer cannot be held responsible for the accuracy of the soils information given by the client, if any. Soil conditions should be verified prior to construction. Barnett-Herron Engineering, Inc. accepts no liability with regard to this design, client did not furnish nor want testing or investigation of this site. Modification of this structural design without prior written consent of Barnett-Herron Engineering, Inc. will void any responsibility by Barnett-Herron Engineering, Inc. with regard to liability associated with the performance of this engineered foundation.

Concrete may experience cosmetic and minor cracking which does not affect the structural integrity of the foundation. This can be expected and is considered normal in the North Texas Area. Barnett-Herron Engineering, Inc. cannot be held responsible for any cracking that may occur in the concrete. Movement will occur in the soil and may crack and shift the concrete. Effort has been taken to reduce the amount of movement. B-HEI, Inc. cannot insure that shifting of the slab will not occur. It is very important that the soil be stable for the foundation to rest on.

If these plans are utilized the owner/builder agrees that the maximum liability shall be equivalent to the amount received for the design.

NOTE: If fill is encountered, proof-roll pad site.

NOTE:
A moisture barrier of polyethylene sheeting or similar material should be placed between the foundation and the subgrade.

Written dimensions on these drawings shall have precedence over scaled dimensions. Contractors shall verify and be responsible for all dimensions. All piping shall be placed beneath the concrete foundation including electrical, plumbing and all other piping.

Watering around the foundation will help keep the soil at a stable condition. The soil around the foundation needs to remain damp at all times. Wetting of the ground can be done to obtain the correct amount of moisture needed. The moisture needed depends on the weather changes from the rainy days to the dry days. Proper maintenance of the ground around the foundation may be necessary if expansive clay soils are present.

It is common to experience some distress to structure with slab-on grade foundation systems due to ground movements. This can include cracks in brick, cracks in ground supported slabs, adjustment to doors and windows that can stick, and interior cracks in sheetrock walls. Cracks in exterior brick walls can be less noticeable with the use of closely spaced vertical joints.

UNLESS OTHERWISE NOTED, ALL BEAMS SHALL BE 10" W x 24" D MINIMUM. IRC 2015

NOTE: VAPOR BARRIER DOES NOT HAVE TO COVER THE BOTTOM OF THE TRENCHES.

FOUNDATION PLAN
SCALE: 1/4"=1'-0"
TOTAL SLAB: 600 sq. ft.

STATE OF TEXAS
NATASHA ZAMANI
16190
REGISTERED PROFESSIONAL ENGINEER

BARNETT - HERRON ENGINEERING INC.
TEXAS REGISTERED ENGINEERING FIRM F-2004

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LOT 43
SHOPS AT HIDDEN SHORES
CISCO, TEXAS

Job No : 210306
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Date : 03-19-2021
Revised:

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of 1 Sheets