

If your project requires engineering, using Fast Site Plan's drawing sets is a more economical approach to the traditional engineering contract. With our drawings, your hired engineer can either provide a complementary calculation letter to go with our plans or stamp our drawings directly and add any additional notes your engineer deems necessary.

Using Fast Site Plans to draft your plans is far more affordable than having your engineer do the entire drawing set.

COMPLEMENTARY CALCULATION LETTER

WALTER KESKE CONSULTING INC.
8550 W. 84th PLACE
ARVADA, CO 80004
PHONE 303-422-1051

JOHN NEW RESIDENCE, 1380 C.R. 371, SHELBY
SHEET NO. 1 OF 1
CALCULATED BY: Walter G. Keske DATE: 3/18/2020
CHECKED BY: Suk # 23077 DATE:
SCALE: Champion Windows, Co.S.

Roof Live Load approx. 57 psf. Roof Dead Load = 5 psf. Elevation approx. 5100'. Ground Snow Load approx. 32 psf.
Wind Load = 100 mph exp. C (cat 1) → 130 mph exp. C (cat 1). NSCEY 2015 IBC. All-Season Room 6" 4 Roof
Existing Slab on Grade. Note: Roof Plan is not modified to match desired floor plan.

1. Concrete new roof to existing layout wall. Field verify slope/grade behind existing wall surface.
Rate = $(6.25 \text{ ft} \times 1.33 \text{ ft} \times 100 \text{ psf}) = 540 \text{ lb}$. Capacity: 2-3/4" x 3/4" SFS screws in shear parallel to grain: 2(310 lb) = 620 lb.
Use 2-3/4" x 3/4" SFS screws at 16" o.c. See attached section.
2. Per design tables 6" o.c. max. maximum column spacing is 78" ± 78".
Load on roof panel support, table 2, indicates maximum load 504 lb/ft < actual maximum possible 540 lb/ft.
Space from top of W-Wall with header minimum 2-7/8" ML, 2-9/4" ML, or 3-2/10".
Use similar MLs on proposed 54" wall.
3. Foundation Plan
Footings 12" x 16" deep; see inside corner.
Grade beam 8" w x 12" deep of perimeter.
Reinforce with 2-#4 T&B, continuous around corners, passing thru footings.
Down to eave 2-#4 T&B, epoxy in place 45° project 2'-0".
4. Table 8 wind zones
Table 1 roof panel oc, 13'± ok
Table 2 roof loads ok w/ headers specified
Table 3 headers ok
Table 4 column spacing ok, at limit
Table 5 header loads ok

DIRECT STAMPING OF DRAWING PLANS

1. CONCRETE FOOTING PLAN
SCALE: 1/4" = 1'-0"

2. SECTION 2: CONCRETE FOOTING SECTION
SCALE: 1" = 1'-0"

REVIEWED AS NOTED
PETERSON STRUCTURAL ENGINEERS
700 BRAZEMAN GATE RD
JENNER, CO 80142
PHONE 303-430-2140

1901-0962 2/26/2019
JWC SH. 8 of 10

CONCRETE FOOTING DETAIL

Scale: 1/4" = 1'-0"

Notes:

1. #4 bars to be located at each corner of grade beam within 4" of edge edges.
2. Longitudinal bars shall be lap spliced 24" minimum.
3. 3.5"x3.8" square HSS posts shall be embedded a minimum of 15" into grade beam and have a minimum of 3" clear cover of concrete on all sides.
4. All reinforcement shall have a minimum of 3" of clear cover of concrete on all sides.
5. Concrete to be 3000 psi minimum. No special inspection of concrete required.

FAST SITE PLANS DRAFTING SERVICES
123 MARKET STREET, SUITE 100
DENVER, CO 80202

DESIGNED BY: Mike
CHECKED BY: Mike
DATE: 3/18/2020
SCALE: 1/4" = 1'-0"
DRAWN BY: Mike
REV: DATE: SHEET: 88 of 8

For additional information, please visit our website at www.fastsiteplans.com/pros for a full detail of services or email us at siteplans@fastsiteplans.com to learn how we can help your business.