

Building Materials List for Behm Design Plan # 816-0
www.behmdesign.net 1-800-210-6776
~ Local building code approved substitutions may be made to this list ~
Variations in construction methods and materials can require modification
of this list. Every attempt is made for greatest accuracy, but typographical
or human error is possible. Quantities verification by the materials supplier
is recommended before materials package is finalized and/or shipped.

Concrete & Reinforcements For Monolithic Slab/Footing
Poured-in-place concrete-----15.5 (min) cy
#4 Reinforcing Steel Bar ASTM A-615 grade 40 410 lf-- 21 - 20' pcs.
W/G x 6 - w/1.4 x 1.4 wire mesh----- 787 sf-- 197 lf, 4' roll

Concrete & Reinforcements For Stemwall/Footing Foundation
Poured-in-place concrete-----16 (min) cy
#4 Reinforcing Steel Bar ASTM A-615 grade 40 590 lf-- 30 - 20' pcs.
W/G x 6 - w/1.4 x 1.4 wire mesh----- 732 sf-- 183 lf, 4' roll

Rough Framing
2 x 4 x 92-1/2" HF/DF exterior "stud" wall framing ----- 103 pcs.
2 x 4 HF/DF No. 2 wall top plate material ----- 232 lf
2 x 4 x 144" HF/DF No. 2 lookouts material ----- 5 pcs.
2 x 4 HF/DF No. 2 pressure-treated bottom plate ----- 116 lf
3-1/2 x 9-1/4 LVL Header 2950Fb 2.OE -----9'-8" length --- 3 pcs.
2 x 6 DF No. 1 Header ----- 8' length --- 1 pc.
2 x 6 DF No. 1 Header ----- 10' length--- 2 pcs.
2 x 3 HF/DF No. 2 Soffit Framing ----- 144 lf
Trusses: 8/12 slope, attic storage, 24' span (incl. 2 end trusses)----- 18 trusses

Sheathing Materials
7/16" o.s.b. wall sheathing -----4 x 8 sheet--- 34 sheets
15/32" Roof 5-ply C-D APA Plywood, ext. glue P.I. 24/0 -----4 x 8 sheet--- 43 sheets

Vapor Barrier
Roof 15# bituminous felt paper in 36" wide roll----- 474 lf
Wall 7# bituminous felt paper in 40" wide roll ----- 400 lf
Floor .006" black polyethylene membrane----- 816 sf

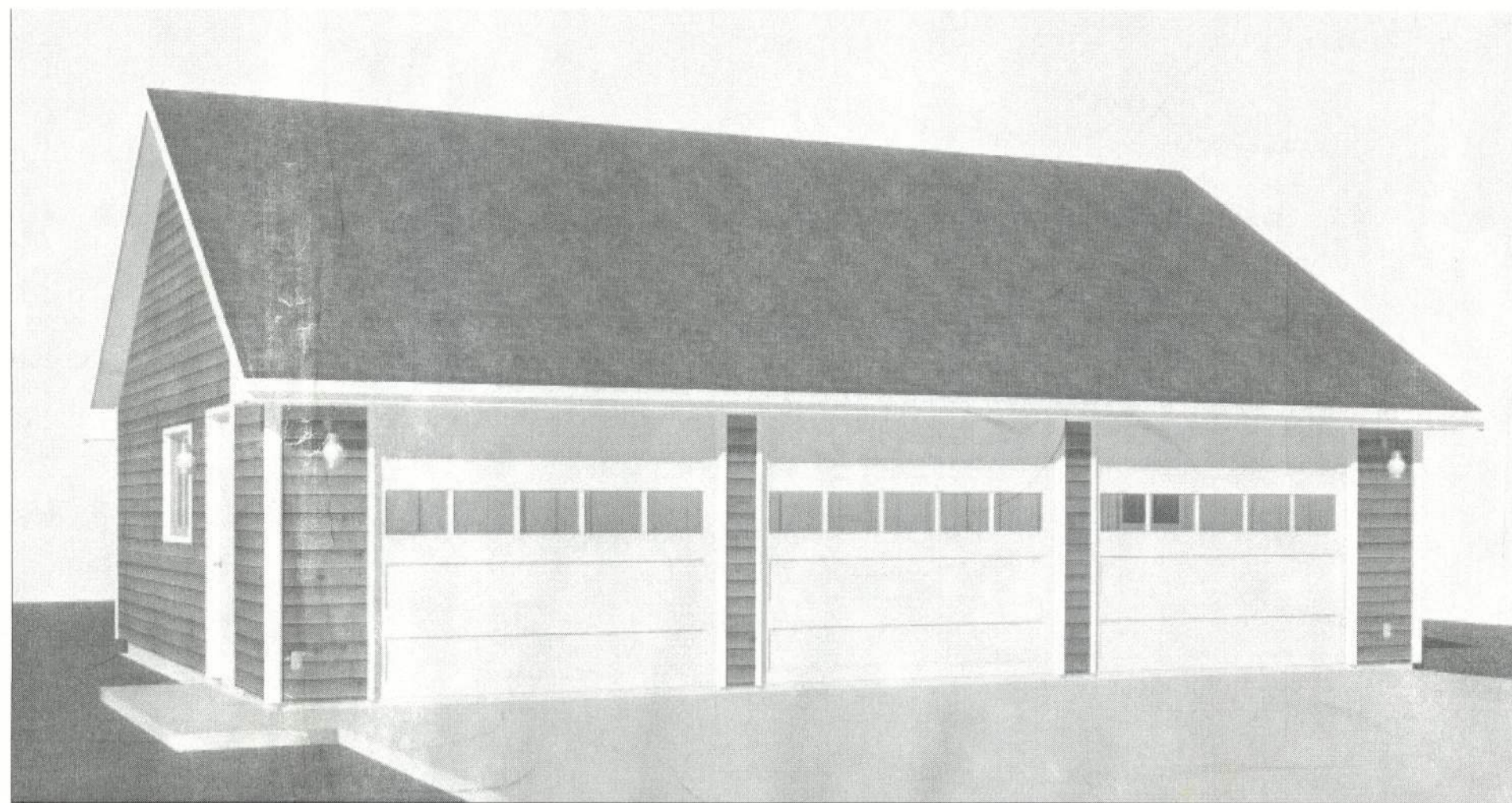
Siding Materials
8" textured o.s.b.siding boards with 1" lap ----- 911 sf siding area
Trim: 5/4 x 3 ----- 8' length --- 4 pcs.
Trim: 5/4 x 4 ----- 8' length --- 4 pcs.
Trim: 5/4 x 2 ----- 8' length --- 13 pcs.
Trim: 5/4 x 2 ----- 10' length --- 3 pcs.
Fascia: 1 x 6 ----- 72 lf
Rakeboard: 2 x 6 ----- 18' length 4 pcs.
Rakeboard: 2 x 12 for porkchops----- 8' length 1 pc.

Roofing Materials
Composition Roofing Shingles----- 1180 sf roof area
Ridgevent material----- 34 lf

Window and Door Assemblies
4030 sliding window(s)----- 2 ea.
9'-0" x 7'-0" sectional garage door----- 3 ea.
3068 exterior door----- 1 ea.

Metal Parts & Misc.
Anchor bolts: 1/2" dia. x 10" ASTM A-307 w/ hex nuts----- 19 pcs.
Flat washer for 1/2" dia: 2" square x 3/16" thick stl. pl.----- 19 pcs.
Anchor bolts: 5/8" dia. x 12" ASTM A-307 w/ hex nuts----- 2 pcs.
Flat washer for 5/8" dia: 2" square x 3/16" thick stl. pl.----- 2 pcs.
Simpson H10 connectors ----- 32 pcs.
Simpson STHD8 hold-down straps ----- 4 pcs.
Simpson STHD10 hold-down straps ----- 4 pcs.
Simpson ST2122 nailing strap ----- 4 pcs.
16d sinker nails ----- 50 lbs.
8d common nails @ 145 nails / lb. ----- 50 lbs.
Dnp flashing for window/door heads----- 38 lf

~ To advise corrections, call 1-800-210-6776 Thank you.~
(note: electrical components and finishing materials not included in this list)



GARAGE PLAN #816-0

36' x 24'
34' Jim Smith 386-365-0177
Candy 386-365-7293

Truss Requirements

2303.4.1 Truss design drawings. Truss construction documents shall be prepared by a registered design professional and shall be provided to the building official and approved prior to installation. These construction documents shall include, at a minimum, the information specified below. Truss shop drawings shall be provided with the shipment of trusses delivered to the job site.

1. Slope or depth, span and spacing;
2. Location of joints;
3. Required bearing widths;
4. Design loads as applicable;
5. Top chord live load (including snow loads);
6. Top chord dead load;
7. Bottom chord live load;
8. Bottom chord dead load;
9. Concentrated loads and their points of application;
10. Controlling wind and earthquake loads;
11. Adjustments to lumber and metal connector plate design value for conditions of use;
12. Each reaction force and direction;
13. Metal connector plate type, size, thickness or gage, and the dimensioned location of each metal connector plate except where symmetrically located relative to the joint interface;
14. Lumber size, species and grade for each member;
15. Connection requirements for:
 - 15.1. Truss to truss girder;
 - 15.2. Truss ply to ply; and
 - 15.3. Field splices.
16. Calculated deflection ratio or maximum deflection for live and total load;
17. Maximum axial compression forces in the truss members to design the size, connections and anchorage of the permanent continuous lateral bracing. Forces shall be shown on the truss construction documents or on supplemental documents; and
18. Required permanent truss member bracing location.

Building Code Compliance

This planset was prepared to comply with the prescriptive requirements of the 2009 edition of the International Residential Code (IRC)

Parameters For Design

Wind Speed: 110 mph

Wind Exposure: "B"

Seismic Category: A, B and C

Snow Load: 30# / sq. ft.

Building Categories and Data

Occupancy Classification: "U"

Construction Type: "V"

Grade-To-Ridge Height: 17'-4"

Gross Building Area: 816 SF



QUESTIONS?..CALL
1-800-210-6776

WWW.BEHMDESIGN.COM

PLAN NO.

816-0

DESIGN BY:
JJB

DATE:
updated
04/11

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