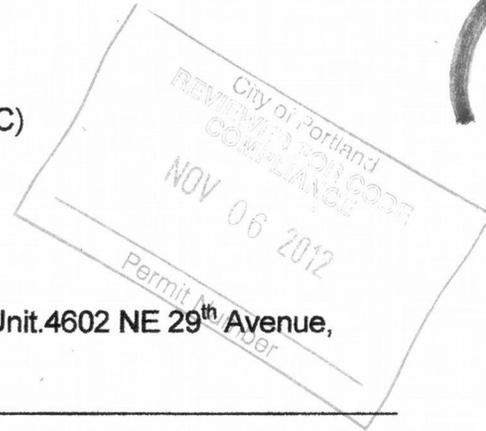


Jason E. Stanek, P.E.
11815 NE 113th Street, Ste 104
Vancouver, WA 98662
C 360.901.6463
O 360.883.5331

**JS STRUCTURAL,
PLLC**

Field Memo Report

To: Mr. Steve Routon (Steven Routon Architect, LLC)
From: Jason E. Stanek, PE
CC:
Date: November 3, 2012
Re: 12-082.Routon-Michelinie.Accessory Dwelling Unit.4602 NE 29th Avenue,
Portland, OR, 97211



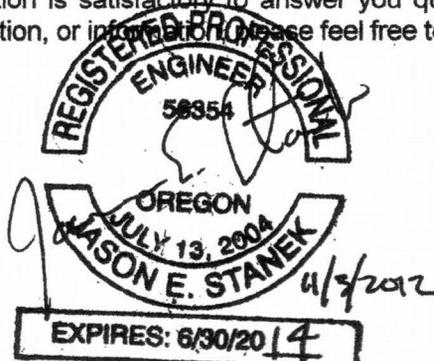
This field memorandum is regarding a field question that has come up for the interior post base anchorage and diagonal brace connection at the loft landing support. This memo is intended to be in response to this field question.

Question: During our construction process, we decided to improve the interior post base connection that supports the loft framing such that it is a more aesthetically pleasing exposed connection, yet still serve its purpose. In lieu of the Simpson post base connector that you specified, we developed a base plate with an anchor bolt welded to it, and then a knife plate welded to the base plate with 2 bolts through the post. Additionally, in the diagonal brace at this same interior area at the base, we have a similar connection with anchor bolt and knife plate, and then at the top, the same knife/base plate, but with a through bolt in the support beam (see sketches attached herewith for all pieces). Are these connectors adequate to carry the loads, and provide the function needed structurally?

Answer: Yes. Per our review of the interior bearing conditions at the base, there is literally no uplift on this connection point, so the original base connector specified was mostly to hold post base in place so it is not disrupted from people passing by. Therefore, your post base/knife plate connection appears to be structurally acceptable for this connection. Additionally, the diagonal brace connectors also appear to be structurally acceptable due to the relatively light loading condition on the loft landing. Worst case loading condition would be for a person standing on the loft at the end of the beam. We will assume a 300 lbs. person at the end of the beam. Please refer to the quick calculations for this condition and the forces involved with the bolts in the connections.

We trust this information is satisfactory to answer you questions. However, if you should require further clarification, or information, please feel free to contact us.

JS Structural, PLLC
Jason E. Stanek, PE



12-082-2012-01-01-01

JS STRUCTURAL, PLLC

11815 NE 113th Street, Ste 104, Vancouver, WA 98662

c. 360.901.6463

o. 360.883.5331

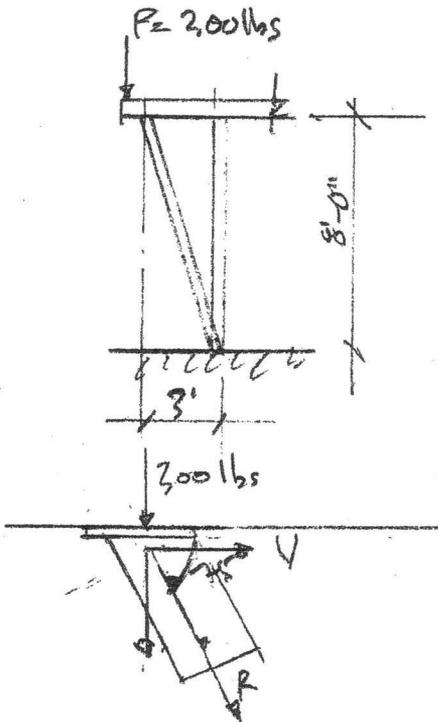
SKR Architect, LLC

Michelinie

JS Project No.: 12-082

FRAMING

DIAGONAL BRACE



FORCES

$$\cos 15 = \frac{300}{R}$$

$$R = \frac{300}{\cos 15} = 290 \# \quad \therefore \quad 2 \text{ BOLTS}$$

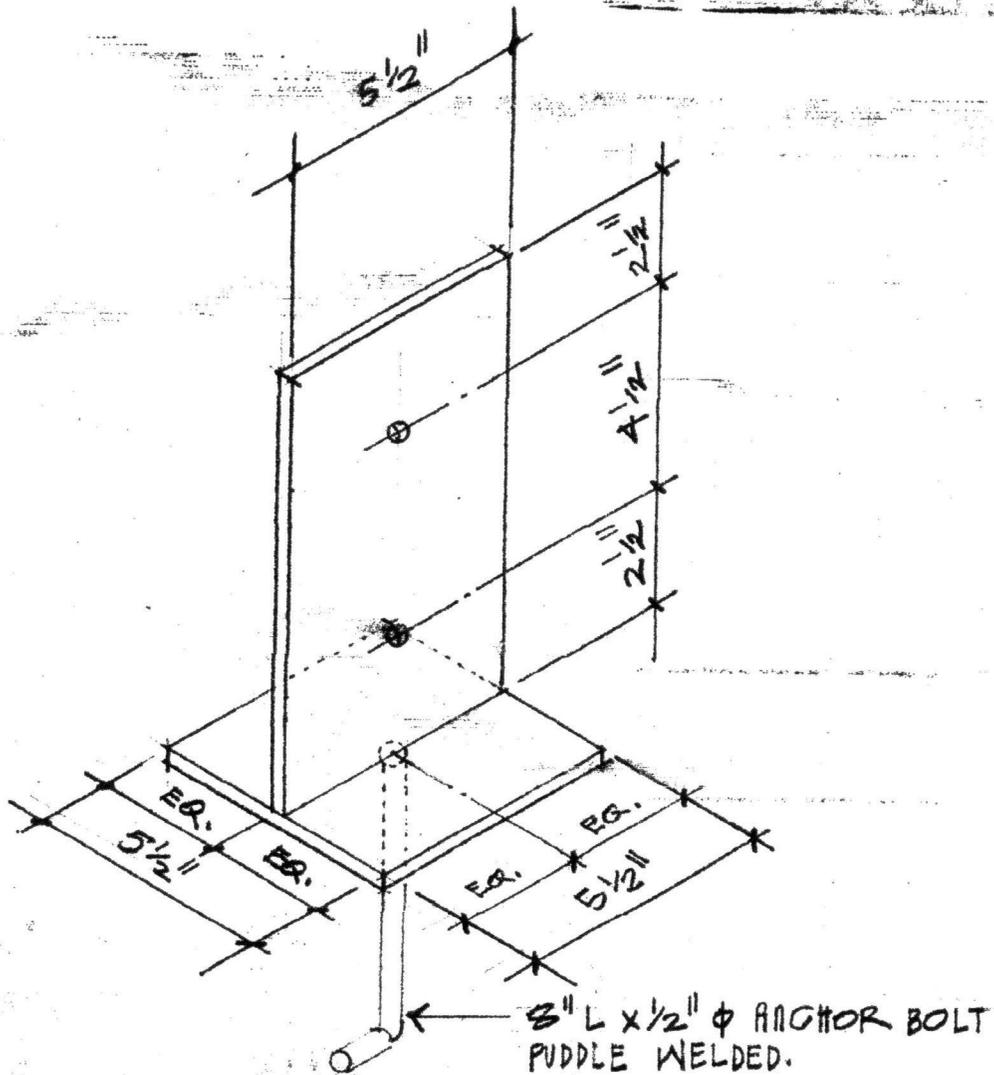
$$\cos 75 = \frac{V}{290}$$

$$V = 290 (\cos 75) = 75 \#$$

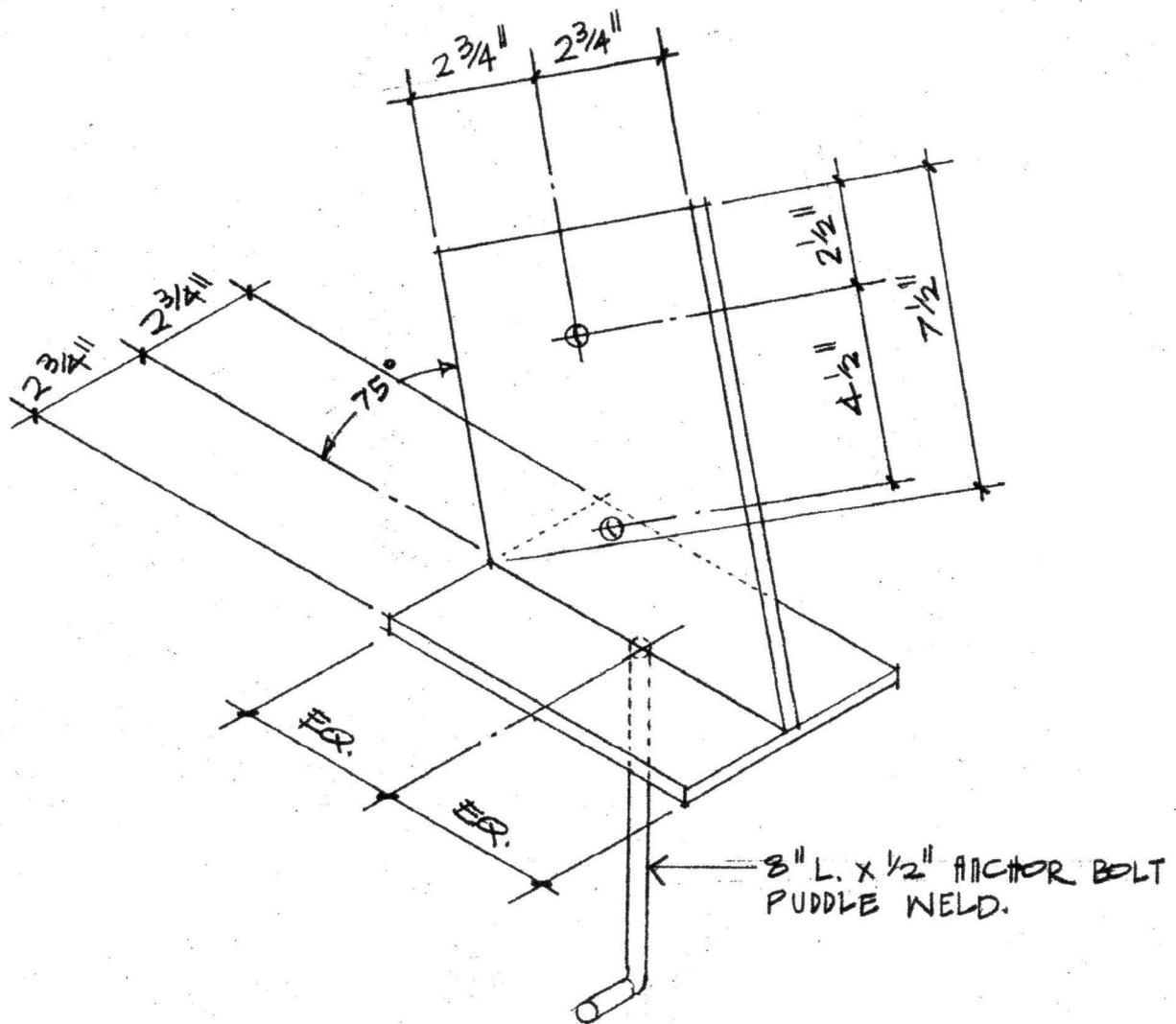
145# / BOLT ✓ ok

1 BOLT $\frac{1}{2}$ " ϕ

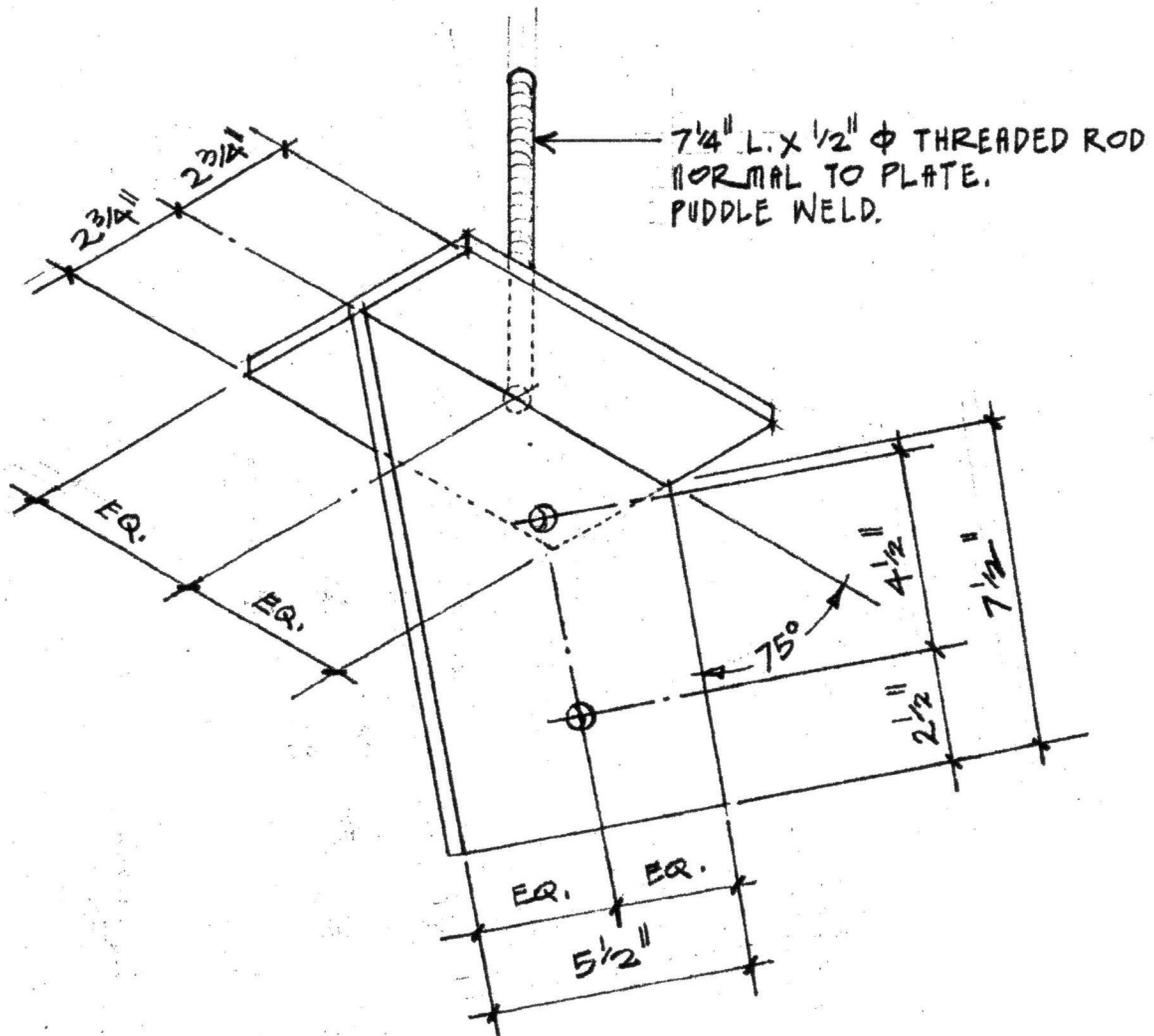
75# NEGLIGIBLE



(1) NORMAL POST BASE



(1) ANGLED POST BASE



(1) ANGLED POST CAP



City of Portland, Oregon - Bureau of Development Services

1900 SW Fourth Avenue • Portland, Oregon 97201 • 503-823-7300 • www.portlandoregon.gov/bds



Permit Revision Application and Submittal Requirements

A Permit Revision is required when there are proposed changes to the project after the permit has been issued. This may arise due to discrepancies between the city-approved permit drawings and actual field conditions, or the customer has changed their mind about an aspect of the project. In all cases, a revision to the existing permit must be submitted, reviewed and approved.

Applicants will provide:

A copy of this application

Three (3) sets of plans that clearly reflect the proposed change(s).

Drawings and calculations must be stamped and signed by the Architect and/or the Engineer of Record, if applicable.

One (1) copy of the original city approved permit drawings. (NOTE: If your project has an assigned process manager please contact them regarding submittal of the revision).

Two (2) sets of calculations, if applicable

Inspector's correction notice, if revision is due to an inspection correction

Revision fee (paid at time of submittal)

Contact Information:

Contact name Steven Rorton

Address PO box 1229

City Clatskanie State OR Zip Code 97016

Phone (971) 506-7436 Email skrorchitect@gmail.com

Value of proposed revision 0 Issued permit # _____

Description of revision revised post base/cap

Fees:

The Permit Revisions are subject to fees associated with plan review, processing and any increase in project value. Additional fees may apply if adding plumbing fixtures.

The Bureau of Development Services fee schedule is available under the fees tab on the BDS web site at: www.portlandoregon.gov/bds. Fees are updated annually on July 1st.

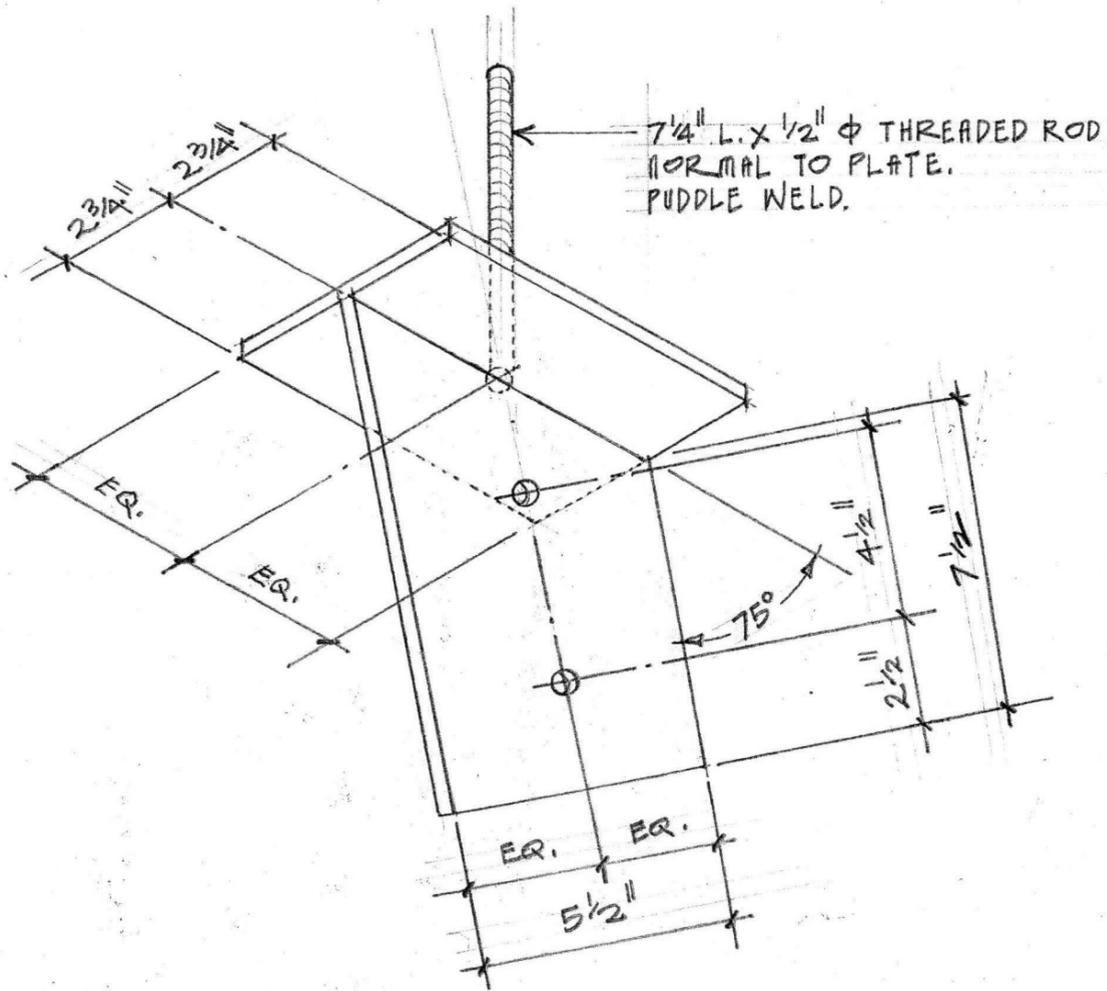
Helpful Information:

Bureau of Development Services
City of Portland, Oregon
1900 SW 4th Avenue, Portland, OR 97201
www.portlandoregon.gov/bds

Submit your plans in person to:
Development Services Center (DSC), First Floor,
Tuesday - Friday:
7:30 am - 12:00 pm
Closed Mondays

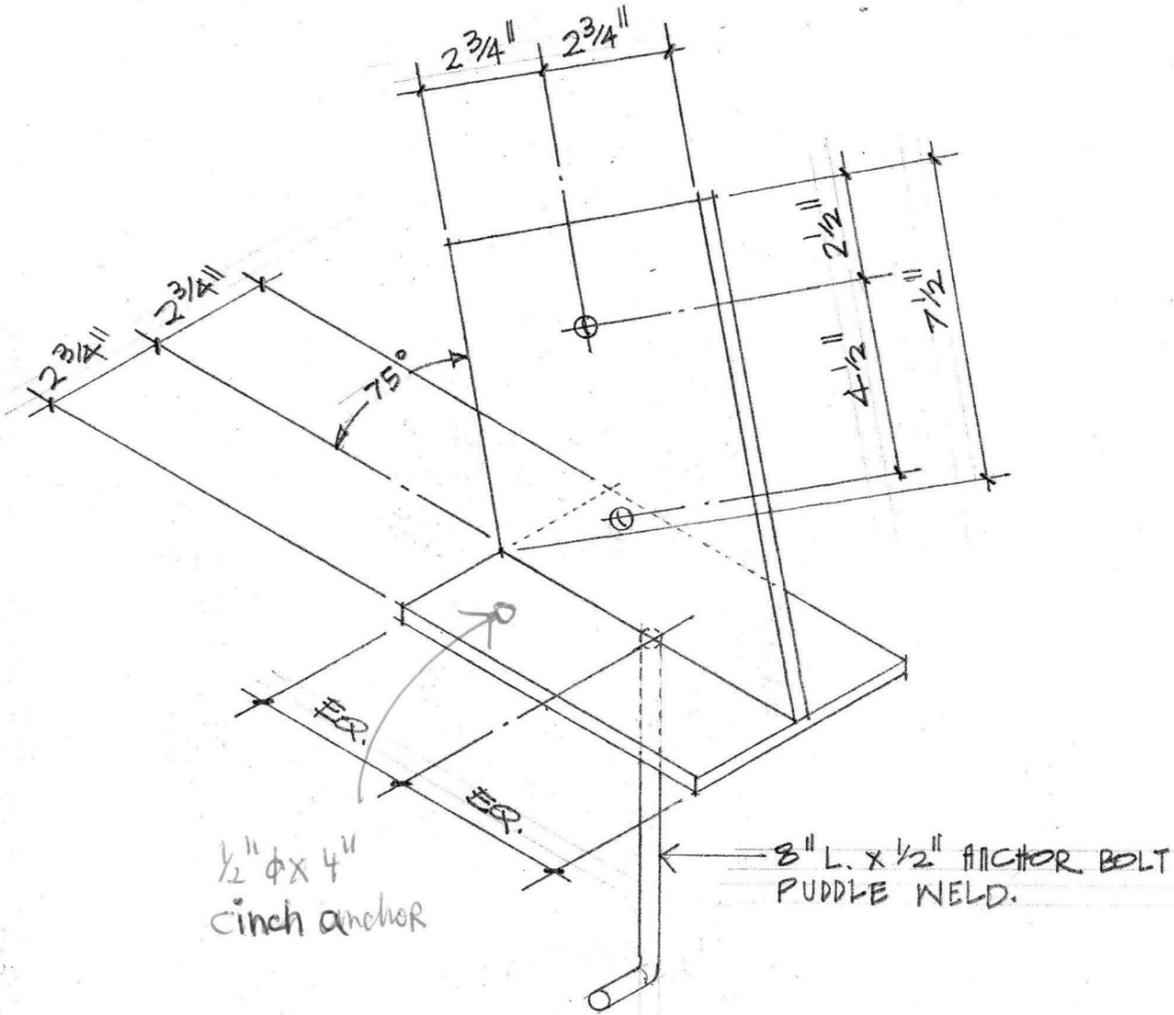
Important Telephone Numbers:

BDS main number503-823-7300
DSC automated information line503-823-7310
Building code information503-823-1456
BDS 24 hour inspection request line503-823-7000
Residential information for
one and two family dwelling503-823-7388
General Permit Processing and
Fee Estimate info503-823-7357
City of Portland TTY503-823-6868



(1) ANGLED POST CAP

City of Portland
 REVIEWED FOR CODE
 COMPLIANCE
 NOV 06 2012
 Permit Number



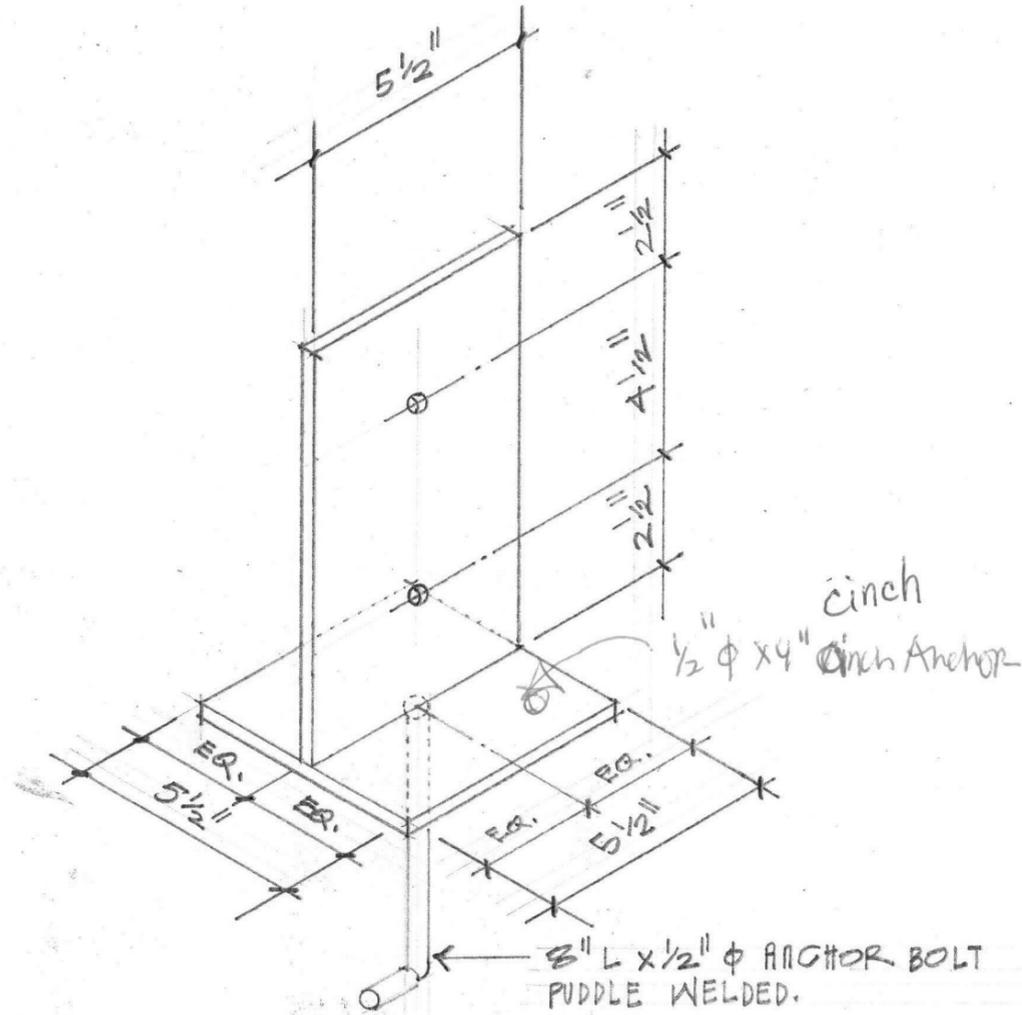
(1) ANGLED POST BASE (APB)

REGISTERED ARCHITECT
 STEVEN K. ROUTON
 CLATSkanie, OREGON
 STATE OF OREGON

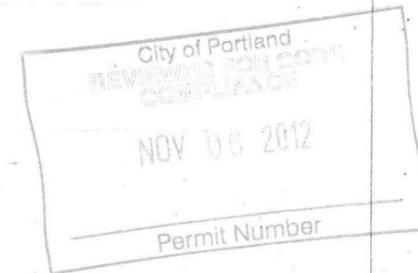
routon michelinie
 a c c e s s o r y d w e l l i n g u n i t t
 4602 ne 29th avenue portland, oregon 97221
 steven routon architect / llc po box 1229 clatskanie, OR 97016 (971)506-7436 skrarchitect@gmail.com

16

11.5.12



(1) NORMAL POST BASE (NPB)



routon michelinie
 accessory dwelling unit
 4602 ne 29th avenue portland, oregon 97221

steven routon architect /llc. po box 1229 clatskanie, OR 97016 (971)506-7436 skrarchitect@gmail.com

17

11.5.12