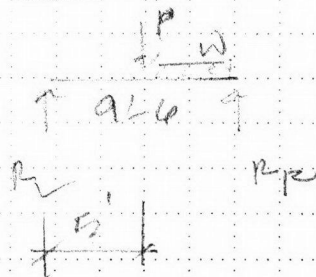


✓ PERIM ABOVE LOWER LANDING



$$W_{OL} = 15(3.33)^{1/2} = 25 \#$$

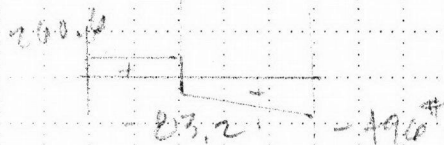
$$W_{UL} = 40(3.33)^{1/2} = 66.7 \#$$

$$P_{OL} = 15(5)^{1/2}(5)^{1/2} = 93.8 \# \downarrow$$

$$P_{UL} = 40(5)^{1/2}(5)^{1/2} = 290.0 \# \downarrow$$

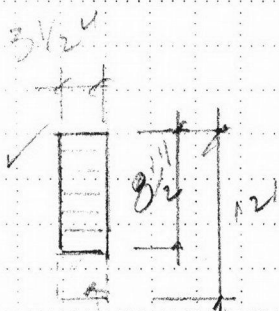
$$R_{LD} = \frac{25(4.5)^2}{2(9.5)} + \frac{93.8(4.5)}{9.5} = 71.1 \# \uparrow$$

$$R_{LU} = \frac{66.7(4.5)^2}{2(9.5)} + \frac{290(4.5)}{9.5} = 129.5 \# \uparrow$$



$$M_{ALL} = 290.0(5) = 1303 \#$$

$$S_{ALL} = \frac{1303(12)}{2400} = 6.52 \#$$



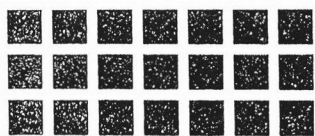
$$S = \frac{8.5^2(2.4)}{6} = 42.15 \# > 6.52 \#$$

$$f_b = \frac{1303(12)}{42.15} = 371 \#$$

REMOVE
3" MIN FOR
STAIR HEAD
CLEARANCE



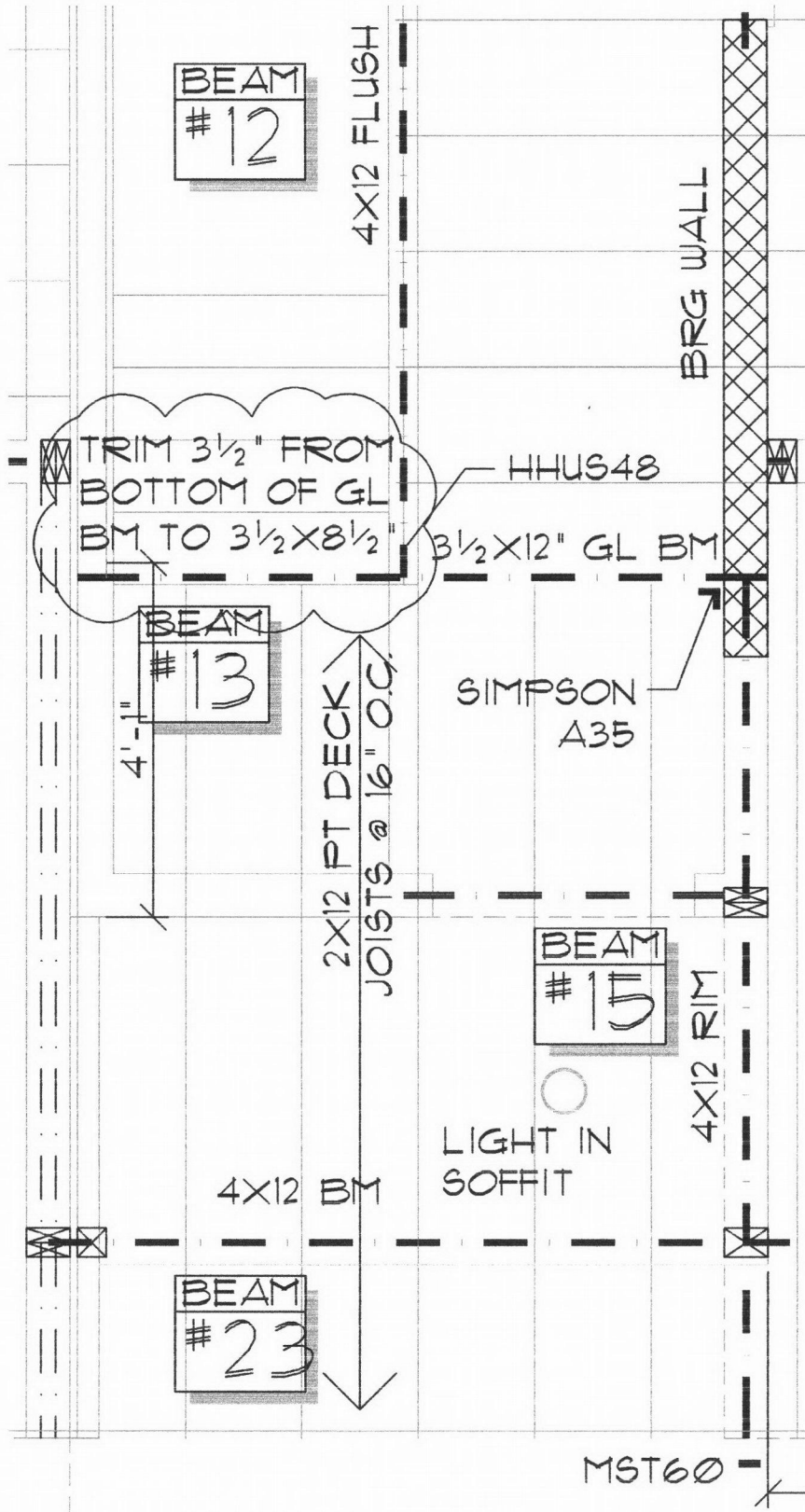
Permit # 17-180500



Benchmark
Engineering
CIVIL - STRUCTURAL

JOB: 7622 SE Washington
CLIENT: Jesse Cereghino JOB NO. 17-83
DATE: 09/03/18 BY: Rich SHEET NO. 1

2905 SE OAK GROVE BLVD, SUITE #8, MILWAUKIE, OREGON 97267 503-659-9371/659-9796 FAX

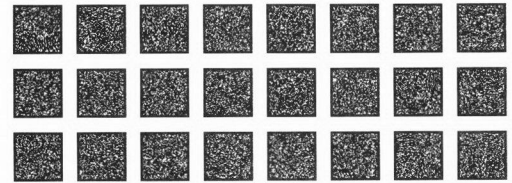


Permit A 17-180500

Benchmark Engineering

Civil & Structural Engineering
2905 SE Oak Grove Blvd., Ste #8
Milwaukie, Oregon 97267

Ph (503) 659-9371 Fax (503) 659-9796



RE: 7622 SE Washington St.
Portland, Oregon

Wednesday, August 08, 2018

Permit# 17-258825-000-00-RS

17-258847-000-00-RS

17-258853-000-00-RS

17-258857-000-00-RS

17-258858-000-00-RS

1. It is acceptable to use OSB 'Rated Sheathing' in place of Plywood for shearwall sheathing.
2. It is acceptable to use 'Redhead' anchor bolts, embedded 5-inches min. in an 8-inch foundation wall.
3. Walls used for furring walls do not required anchor bolts to the foundation.

Respectfully,

Rich Silkett PE
Benchmark Engineering LLC

cc file 18-05



Permit # 17-180500



Jessey Cereghino <jessey.cereghino@gmail.com>

SE Washington Street Appartments

1 message

Richard Silkett <benchmark402@yahoo.com>
To: Jessey Cereghino <jessey.cereghino@gmail.com>

Tue, Oct 30, 2018 at 1:57 PM

Jesse,

It is acceptable to use Simpson A35 Clips in place of Simpson L70 angles.

Rich Silkett PE
Benchmark Engineering LLC

Permit # 17-180500