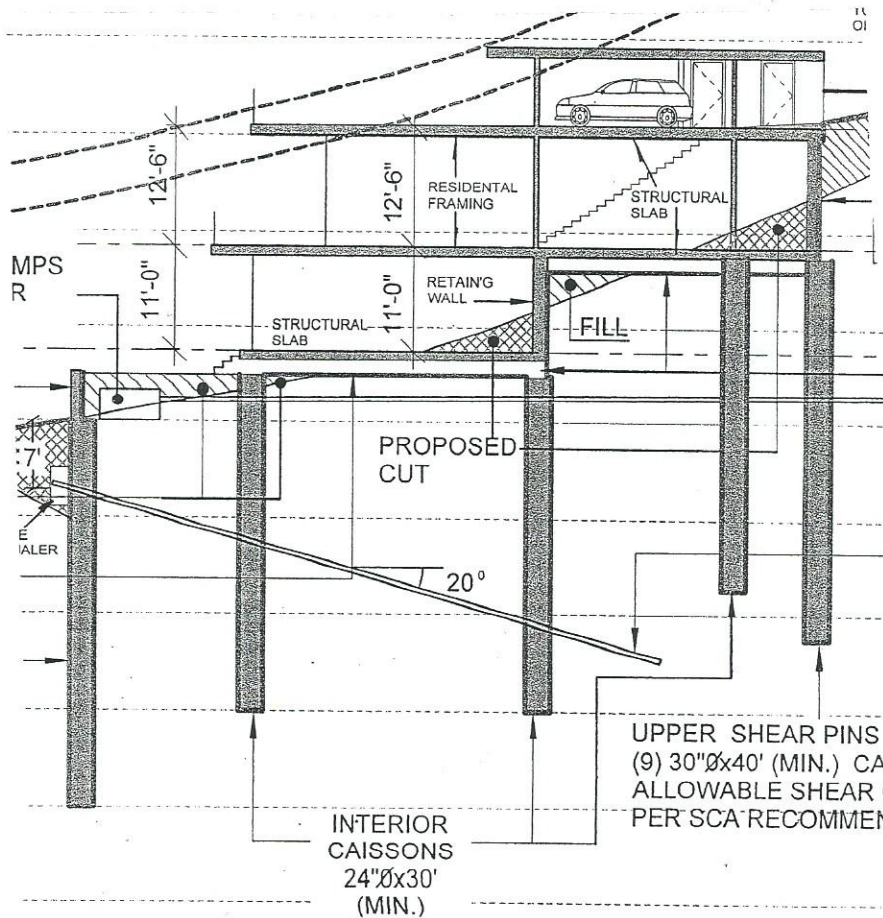
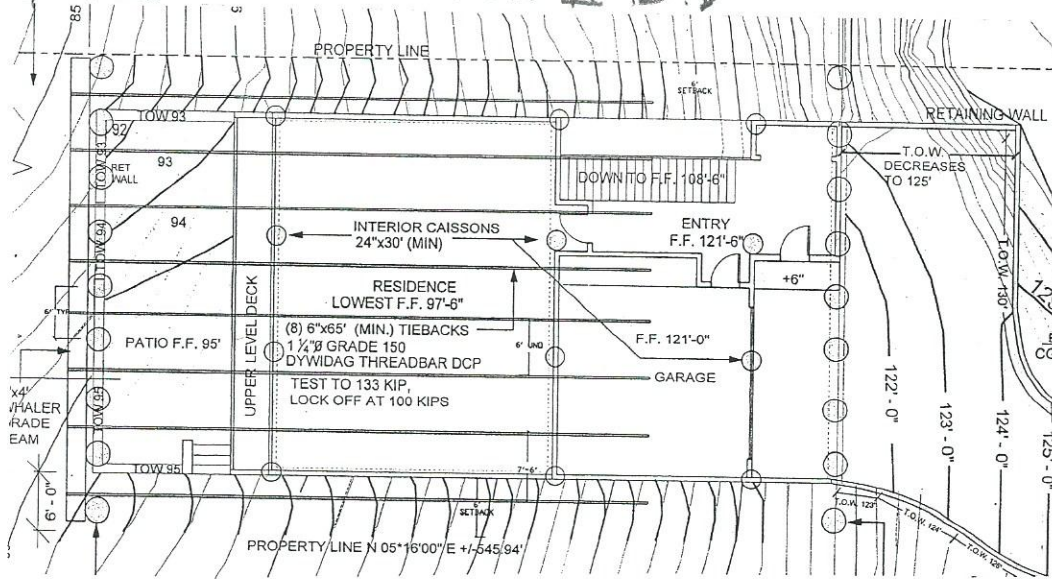


C. L. GRANT
CIVIL ENGINEER

7897 Lutz Ave. NW
Massillon, Ohio 44646

JOB T. Felkey
ADDRESS 1925 El Camino de la Luz
DRAWN BY CLG DATE 3/28/14
CH'K'D BY _____ SHEET NO. 1 of 2
SCALE 1" = 20' PROJECT NO. 13-67

Response to PRT Item IV.D.1



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DRAWN BY CLG DATE 3/23/14
CH'K'D BY _____ SHEET NO. 2 of 2
SCALE _____ PROJECT NO. 13-67

Calculate Loads on Lower and Upper Shear Pins

- Lower Shear Pin - supports 5' high retaining wall
Assume wall is 8" thick.
Wall weight = $(5)(1.67)(150) = 503 \# / 1f$
Lower Shear pin support $503 \# / 1f$
or a point load of $(503)(6) = \underline{3018 \#}$
- Upper Shear Pin - supports 12'-6" Basement wall 1' thick,
portion of (2) structural slabs, plus framed wall, & roof
$$q \approx (12.5)(1)(150) + \left(\frac{8}{2}\right)(75+40) + \left(\frac{8}{2}\right)(75+50) + (8)(15)$$
$$+ \left(\frac{8}{2}\right)(15+20) = 1875 + 460 + 500 + 120 + 140$$
$$= 3095 \# / 1f \text{ use } 3100 \# / 1f.$$

Upper Shear Pin wall supports $3100 \# / 1f$
or a point load of $(6)(3100) = \underline{18,600 \#}$