WAC 296-96-02421 Layout plans. A set of legible layout/plans shall be submitted to the department. In addition to the layout criteria in ASME A17.1/CSA B44 these shall include the following:

(1) A machine/control room plan view drawing identifying room dimensions, location of drive machine, motor controller, mainline disconnect, light switch, and door swing;

(2) A hoistway plan view identifying hoistway and conveyance equipment dimensions and clearances, foot print of car enclosure showing doors and inside net dimensions, location and dimensions of hoistway, and car door or gates;

(3) A hoistway elevation view identifying elevation of the hoistway and conveyance equipment dimensions and clearances, the location of the pit ladder, pit light, light switch, pit stop switch, and top and bottom vertical car clearances. The height to the maintainable equipment at the top of the hoistway from the horizontal plane of the top of the car with the car positioned at the top landing shall be indicated on the hoistway elevation plans;

(4) Detail drawings identifying specific details of conveyance components: Rail bracket fastening, sill support and fastening, machine beams, entrance assembly detail, and additional seismic requirements (see ASME A17.1/CSA B44, Section 8.4 or 8.5 as applicable);

(5) General conveyance data to include:

(a) Conveyance type (e.g., electric, hydraulic, platform lift, etc.);

(b) Rated capacity;

(c) Building designation (e.g., Elev. #1, Car #2, etc.);

(d) Rated speed;

(e) Car enclosure (construction material);

(f) Standoff panels (if applicable) (submit test data to ASTM E 84 if applicable);

(g) Door type and manufacturer (single speed, two-speed, center opening, RH/LH opening);

(h) Car and hall fixture detail;

(i) Finish floor (tile, carpet) (submit test data to ASTM E 648 if applicable);

(j) Power unit/drive motor (manufacturer and HP);

(k) Equipment heat generation (BTU) (items (l) through (p) are applicable only to hydraulic elevators);

(l) Jack assembly manufacturer;

(m) Plunger O.D. (if telescoping O.D. of each section);

(n) Plunger wall thickness;

(o) Cylinder O.D.;

(p) Cylinder wall thickness (items (q) through (u) are applicable to roped-hydraulic and/or electric elevators);

(q) Size and number of suspension means;

(r) Roping type (1:1, 2:1, underslung);

(s) Governor location;

(t) Governor rope size and type;

(u) Safety manufacturer and type;

(v) Emergency brake manufacturer and type;

(w) Car buffer type and stroke;

(x) CWT buffer type, impact, and stroke; and

(y) Designed top/bottom runby.

(6) Additional plan views for machine-room-less machine room/machine space, control room/control space as outlined in the ASME A17.1 Appendix Q (see Table Q-1 and Figures Q-1 through Q-6.). These

details shall show applicable working clearances for both mechanical and electrical clearances.

(a) Additional ADA compliant clearances shall be noted on the submitted plan views, such as roll-by distances in hallways and lobbies.

(b) Storage for required barricades shall be noted on plan views.

(c) Location for fire extinguishers adjacent to hoistway entrances and rooms that provide access to elevator equipment shall be noted.

(7) The installation of a conveyance shall not begin until an approved set of plans and permit has been issued by the department.

(8) The stamped approved plans and permit shall be posted on the job site during the installation and up to the time the conveyance has passed an acceptance inspection.

(9) Where structural elements are part of any installation, relocation, or alteration, the plans shall be reviewed and stamped by a professional engineer, registered in the state of Washington.

[Statutory Authority: RCW 70.87.030. WSR 23-17-141, § 296-96-02421, filed 8/22/23, effective 10/2/23. Statutory Authority: Chapter 70.87 RCW. WSR 18-18-070, § 296-96-02421, filed 8/31/18, effective 10/1/18; WSR 13-24-066, § 296-96-02421, filed 11/27/13, effective 1/1/14.]