COMMERCIAL ELEVATOR / ESCALATOR / DUMBWAITER / VERTICAL PLATFORM LIFT / INCLINED PLATFORM LIFT / MATERIAL LIFT / LULA / “CONVEYANCE” PLAN REVIEW REQUIREMENTS

ALL PLANS REQUIRE:

- Compliance with the currently adopted ASME A17.1 Safety Code for Elevators and Escalators and/or ASME A18.1 Safety Standard for Platform Lifts and Stairway Chairlifts (whichever is applicable)
- Site specific shop drawings and submittals for each conveyance being installed
- Conveyance shop drawings and submittals appropriately indexed in plan directory
- Integration of all conveyance shop drawing and submittal information, layout, dimensions, and notes into all areas of plan as required by Code
- Deferred conveyance shop drawings and submittals not allowed

STRUCTURAL AND ARCHITECTURAL SPECIFIC TO CONVEYANCES

- Pit and Hoistway construction details from top and elevation views for each conveyance being installed
- Designation of Machine Room(s) or Control Room(s) for each conveyance being installed (if applicable)
- Details and specific locations for Sump Pump Pit(s) (required on all conveyances w/ Fire Fighters Service Operation except Escalators, Dumbwaiters, Vertical Platform Lifts, Inclined Platform Lifts, LULA’s and Material Lifts)
- Sump Pump Pit location(s) must match conveyance equipment layout on shop drawings and submittals

MECHANICAL INSTALLATIONS SPECIFIC TO CONVEYANCES

- Conveyance Machine Room(s) and Control Room(s) HVAC equipment and locations (if applicable and per conveyance manufacturer requirements)
- Mechanical installations cannot be located over elevator equipment

Note: Hoistway Ventilation has been removed from the International Building Code and is no longer required for any conveyance installed under the 2015 IBC. If Hoistway Ventilation is going to be installed per the Professional Engineer, the design must comply with the currently adopted International Energy Code for openings to the outside.

PLUMBING INSTALLATIONS SPECIFIC TO CONVEYANCES

- Minimum one Sump Pump for each conveyance where required (minimum rating of 50 GPM at discharge point)
- Provide Sump Pump piping schematics throughout building
- Sump Pump Discharge Piping required to terminate indirectly into sanitary waste
- Required Sand/Oil Interceptor or Oil Detection Type Control and Alarm for Sump Pumps installed in conjunction with Hydraulic Elevators
- Oil Detection Control and Alarm Panel must be mounted in Elevator Hoistway (where applicable)

ELECTRICAL INSTALLATIONS SPECIFIC TO CONVEYANCES

- One line diagram to include conveyance(s) required Feeder Size and Ampacity
- Locations of Disconnecting Means for all conveyance related circuits in relation to shop drawings and submittals
- Pit Sump Pump circuit(s) schematics
- Pit lighting fixture, illumination and receptacle requirements per conveyance shop drawings and submittals, NEC and ASME Codes
- When Conveyance Pits are required have a fire sprinkler installed, pit electrical components and equipment must maintain a NEMA Type 4 rating when installed less than 30” above pit floor, or maintain a NEMA Type 3R rating on components and equipment installed between 30” and 48” above pit floor. (Note: Pit receptacles installed less than 30” above pit floor and in use while elevator is in normal operation do not comply with NEMA Type 4)
- Hoistway overhead lighting fixture, illumination and receptacle requirements per conveyance shop drawings and submittals, NEC and ASME Codes
- Shunt Trip Disconnecting Means allowed on a case by case basis, mostly pertaining to particular brands of conveyance manufacturers and their equipment being installed. (Contact Elevator Plan Review @ 719-327-2996 for more information)