

DESIGN CRITERIA

1. Related Sections: See related Division 05 and Division 08 Design Criteria, and related Design Standard Plates.
2. Metal fabrications are used for numerous applications in commissary construction, including steel framing for support of operable partitions, mechanical and electrical equipment, and miscellaneous steel trim such as wall mounted steel angle corner guards, dock leveler pit frames, and loading dock edge angles. Metal fabrications considered operational necessities in commissary facilities, include the following:
 - A. Structural Steel Door Frames: Provide at overhead receiving doors and interior traffic doors (in CMU walls) between the sales area and warehouse area. Traffic doors are subject to heavy use and the traffic door manufacturer recommends the use of structural steel door frames. Traffic doors installed in gypsum wallboard partitions facing Sales Area shall have 14 gage flush galvanized steel security frames, with 1/4" steel reinforcement plates at hardware attachment locations. Refer to Division 08 Section Hollow Metal Doors and Frames for further information.
 - B. Metal Ladders: Provide at above cooler access locations.
 - C. Metal Ships' Ladders: Provide at roof access hatch location in existing stores for replacement only. Ships ladder shall be at an angle of 50 to 60 degrees, width shall be 24", and stair tread depth shall not be less than 6".
 - D. Metal Bollards: Provide 8" diameter concrete filled steel bumper posts at jambs of all receiving doors to protect door tracks. Provide 4" diameter concrete filled steel bumper posts at jambs of all traffic doors between the sales area and warehouse area (not exposed to sales area). Provide 8" diameter concrete filled steel bumper posts at exterior locations to protect jambs of grade level receiving doors, leading edges of guardrails and handrails, corners of receiving platforms and ramps, and grade/pad mounted mechanical and electrical equipment.

Provide polyethylene thermoplastic sleeves over interior bumper posts (located in non-customer areas). Coordinate with Installation Design Guideline (IDG) or other Installation criteria controlling exterior architectural design for required appearance of exterior bumper posts. Default color shall be "safety yellow."

Bolt-down "flexcore" (flexible core) type bollards are required in the following situations:

In frozen food storage areas where the thru-penetration of a steel bollard could cause below slab freezing and heave to occur.

In stores with a structural concrete slab where the installation of steel bollards through the concrete slab could compromise the steel reinforcing in the structural concrete slab.

Refer to Section 10 26 00 WALL AND EQUIPMENT PROTECTION

- E. Mezzanine Openings to Staging/Receiving or Exterior where elevation change is equal to, or great than 48 inches: Provide OSHA approved protection device at mezzanine door openings for personnel or forklift access to mezzanine storage or mechanical spaces as follows:
 1. Ladder access openings (openings 16-3/4 inch to 38-1/2 inch): provide a self-closing 42 inch high safety gate with safety toe board.
 2. Pallet access openings with or without doors (5, 6, or 8 feet wide): provide a 42 inch high self closing pallet gate with high impact bumpers.
 3. Pallet access openings greater than 8 feet wide: provide a manual vertical lift gate 42 inch high with toe board (verify height clearance in existing facilities can accommodate a lift gate).

- F. Metal Column Covers: Provide 6'-0" high stainless steel covers on all exposed columns within customer areas, including those located within gondola shelving.
- G. Stainless Steel Wall Panel: Provide quilted stainless steel wall panel in Deli, directly behind counter mounted chicken rotisserie, from top of counter or stainless steel table to underside of ceiling. Nominal size: 60" wide by 84" high.
- H. Testing and Inspection: Although the IBC requires special inspections be performed by special inspectors who are engaged by the or the design professional, this Section specifies the Contractor shall engage special inspectors.

END OF SECTION