

# Element D Services

Plumbing

## D200002 Parking Garage Plumbing Design Guidelines

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### PART 1 - GENERAL

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#### 1.01 OVERVIEW

- A. This section supplements all plumbing related Owner's Design Guideline Element Sections with additional specific criteria for projects involving design of Open Parking Garage Plumbing Systems within and to five feet beyond the building perimeter.

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### PART 2 - DESIGN CRITERIA

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#### 2.01 GENERAL

- A. Open parking garage plumbing systems shall include but not be limited to the following:
1. Domestic Cold Water, Trap Fill Water, Domestic Hot Water
  2. Sanitary Waste and Vent
  3. Storm Drainage
  4. Sub Soil Drainage (As determined by site soils report and Structural Engineer's recommendations)
- B. The A/E shall verify and determine all plumbing services required by the various fixtures and equipment being installed and design systems accordingly. These determinations shall include but not be limited to water temperature, water pressure, water flow, drainage quality and drainage flow.
- C. Where provisions for future equipment, fixtures or building expansion are required, systems equipment capacity, pipe sizing and arrangement shall accommodate proposed demand.
- D. Where required by code, provide oil separator devices in Parking Lot or Garage facilities.

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### PART 3 - SPECIAL CONTRACT DOCUMENT REQUIREMENTS

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#### 3.01 GENERAL

- A. Refer to other D2000 series Elements applicable to the Project for information required to be included within the plumbing Contract Documents.

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- B. Column lines and designations shall appear on all plumbing underground, floor and partial floor plans as they appear on Architectural sheets.
- C. Plumbing floor and partial plans shall include finished floor elevations, graphic scales, north arrows and key plan.

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- D. Floor plans shall show piping, valves, fixtures, equipment, etc. on the floor that they are to be installed. Where piping systems are to be installed below slab on grade, these shall be shown on a separate underground plan.
- E. Be specific and precisely show all points of connection and flow rates for utilities. Inverts, when applicable, shall be determined and indicated.
- F. Performance data schedules for all equipment shall be shown in schedules on the Drawings.
- G. Include legend on Drawings identifying applicable symbols and abbreviations.
- H. All equipment and material specifications shall be bound in the Specifications.
- I. Plumbing plans shall clearly indicate location and ratings of all fire and smoke walls.

### PART 4 - PRODUCTS

#### 4.01 GENERAL

- A. Refer to Master Construction Specifications.
- B. System design and piping specified for renovation of existing facilities shall be compatible with existing installation.

### PART 5 - DOCUMENT REVISION HISTORY

Issue	Date	Revision Description	Reviser
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