PART 1 - GENERAL

1.01  OVERVIEW

A. This section addresses fire suppression standpipe systems within and to five feet beyond garage building perimeter.

B. Fire protection systems design shall be performed by individual(s) licensed in the State of Texas and having minimum five years design experience related to the types of systems included within this Project.

C. Where it is considered by the A/E that proposed systems design cannot comply with the requirements stated and referenced herein, the A/E shall communicate such concerns to the Owner’s Project Manager in writing and resolve non-compliance in sufficient time during the design phase of the Project to meet Contract schedule obligations.

PART 2 - DESIGN CRITERIA

2.01  GENERAL

A. Refer to Design Guideline Element Z2005 for Codes and Applicable Regulatory Agencies.

B. The A/E is required to make themselves aware of all applicable codes and ordinances and assure compliance thereto.

C. All portions of an open parking garage building shall be protected in accordance with Design Guideline Element Z2005. Design shall comply with codes and standards referenced within these Elements and include, but not be limited to, calculations, specifications and detailing fire department connections, pipe penetrations, pipe supports and any special requirements.

D. Where provisions for building expansion are required, systems equipment capacity, pipe sizing and arrangement shall accommodate proposed demand.

E. Provide adequate spaces for the installation, servicing and inspection of all equipment, valves and appurtenances.

F. Pipe drains to a location that can accept maximum expected discharge without flooding.

G. Do not locate piping within electrical or telecommunications rooms.

H. Piping shall be located to minimize space requirements and shall not interfere with the flow of pedestrian traffic, vehicular traffic or parking. All piping shall be protected from damage by other means approved by the Owner.
PART 3 - SPECIAL CONTRACT DOCUMENT REQUIREMENTS

3.01 GENERAL

A. Develop plans, schedules, system schematic and details indicating all information required to clearly illustrate the intent of system design, including but not limited to, location and size of building fire department connection(s), standpipes, standpipe mains, shut-off and drain valves and fire hose valves.

B. Column lines and designations shall appear on all floor and partial floor plans as they appear on Architectural sheets.

C. Floor and partial plans shall include finished floor elevations, graphic scales and north arrows.

D. Floor plans shall show piping, valves, equipment, etc. on the floor that they are to be installed.

E. Graphically identify each standpipe and fire hose connection on plans and riser schematic. Identification on riser schematic shall correspond to Identification on plans. Graphically indicate floor levels and floor elevations on riser schematic.

F. Details shall be provided for all components that require installation explanation beyond the information included within plans and riser schematic.

G. All construction details shall be shown on the Drawings and shall not be bound in the Specifications.

H. All equipment and material specifications shall be bound in the Specifications.

I. Refer to individual Element sections for additional document requirements applicable to the various systems.

PART 4 - PRODUCTS

4.01 GENERAL

A. Refer to Owner’s Master Construction Specifications. These are available on the Owner’s Design Guidelines website: http://www2.mdanderson.org/depts/cpm/standards/specs.html

PART 5 - DOCUMENT REVISION HISTORY

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Element D

Element D Services

Fire Protection

D400001 Fire Protection - Open Parking Garage General Design
Guidelines

END OF ELEMENT D400001