

TECHNICAL SPECIFICATIONS

SECTION 10522

FIRE EXTINGUISHERS, CABINETS, AND ACCESSORIES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions, Special Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
  - 1. Fire extinguishers.
  - 2. Fire extinguisher mounting brackets.

1.3 SUBMITTALS

- A. General: Submit the following according to the Conditions of the Contract and Division 1 Specification Sections.

1.4 QUALITY ASSURANCE

- A. Single-Source Responsibility: Obtain extinguishers from one source from a single manufacturer.
- B. UL-Listed Products: Fire extinguishers shall be UL listed with UL listing mark for type, rating, and classification of extinguisher.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  - 1. Larsen's Manufacturing Co. or equal.

2.2 FIRE EXTINGUISHERS

- A. General: Provide fire extinguishers for locations indicated. Extinguishers shall be 10 lb. multi-purpose.

2.3 MOUNTING BRACKETS

- A. Brackets: Designed to prevent accidentally dislodging extinguisher, of sizes required for type and capacity of extinguisher indicated, in plated finish.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Examine rough-in for fire extinguisher location.

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3.2 INSTALLATION

- A. Follow manufacturer's printed instructions for installation.
- B. Install in locations and at mounting heights indicated or, if not indicated, at heights to comply with applicable regulations of governing authorities.
  - 1. Fasten mounting brackets square and plumb.

END OF SECTION 10522

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DIVISION 11

SECTION 10850

MISCELLANEOUS SAFETY EQUIPMENT

PART 1 - GENERAL

1.1 DESCRIPTION

A. Scope:

Furnish all labor, materials, equipment and appurtenances required to provide and install, where necessary, the miscellaneous safety devices specified herein.

B. Related Work (Specified Elsewhere):

1. All work with related trades shall be coordinated as necessary to complement the installation of these miscellaneous specialty items.

1.2 QUALITY ASSURANCE

A. Manufacturer Qualifications:

1. Provide equipment which is a standard product of the manufacturer.

PART 2 - PRODUCTS

2.1 Site Safety Signs

A. Signs

1. "Danger - No Smoking" signs shall be placed on a interior wall in the lab/office area and the chemical solution equipment area and on the exterior of the building facing the packaged wastewater treatment plant.

The three (3) - 10" x 14" signs shall be similar to "Danger - No Smoking" sign, Stock No. 46122, as listed in the USA Blue Book or equal.

2. "No Trespassing" signs shall be placed around the plant site on the fence enclosure. Four (4) - 10" x 14" signs shall be placed on the chain link fence. Four (4) - 10" x 14" fiberglass signs similar to "No Trespassing" signs, Stock No. 46072, as listed by USA Blue Book shall be provided and installed.

2.2 Equipment and Chemical Storage Systems

- A. The spare or replacement pumps and motors for the wastewater treatment plant shall be stored in the secure, chemical solution area of the wastewater process building. Each of these pumps are shipped in boxes approximately 10" x 10" x 18" high and can be easily labeled and stacked in the equipment area.
- B. The spare UV lamps and lamp cleaner shall be stored in the chemical solution section of the process building on a shelf in their respective shipping or delivery containers.

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C. Soda Ash Storage

At the design capacity of the plant; ie. 28,000 gpd, a ten (10) day supply of soda ash for alkalinity adjustment would require storage of approximately ten (10) bags of the dry chemical. These bags would require an area of approximately ten (10) sq. ft. with bags stored five (5) high. This space is available in the chemical solution area of the process building. The Owner will store the remainder of a thirty (30) day supply on site in a separate storage building with the spare pumps.

2.3 First Aid Supplies and Safety Equipment for the Operator

A. First Aid Kit

1. One (1) industrial first aid kit similar to the twenty-five (25) person first aid kit, Stock No. 65098 as presented in the USA Blue Book, or equal shall be provided and mounted in the lab area.

B. Operators Kit for Protection from Ultraviolet Light in the Disinfection System

1. One (1) general face shield to protect the operator from UV light shall be provided and stored on a shelf near the UV disinfection equipment in the UV Building. The face shield shall be a standard design for eye protection from UV light and the shield shall be provided by the supplier of the UV disinfection system.

2.4 Fire Extinguishing Equipment

- A. Three (3) - 2 ½ lb multi-purpose fire extinguishers for Class A, B or C fires shall be provided and one (1) each shall be mounted in the laboratory/process area, the equipment area section of the process building and one (1) in the chemical solution area, where noted on the plans. The extinguishers shall be UL listed. The extinguishers shall be securely mounted on the wall and the mounting brackets shall be designed with a bracket-clip or strap designed to prevent the extinguisher from being accidentally dislodged.

The extinguishers with bracket mount shall be similar to Stock No. 42590 as listed in the USA Blue Book or equal.

2.5 Operator Safety Equipment for Chemical Solution Feed System

- A. Two (2) personal safety goggles shall be provided and stored on a shelf in the chemical feed equipment area. The units shall meet ANSI Z87.1 specifications. The goggles shall be similar to the Monoshield™, Stock No. 41626, as listed in the USA Blue Book or equal.
- B. One (1) box of twenty (20) dust/mist respirators shall be provided and stored in the lab/office area. The respirators shall meet 42 CFR 84 requirements for protection against any solid or non-oil containing particle contaminant. The respirators shall be Series N95, Stock No. 71681, as listed in the USA Blue Book or equal.
- C. One (1) unit of 100 disposable aprons shall be provided and stored in the lab/office area. The aprons shall be similar to the Aprons, Stock No. 68715, as listed in the USA Blue Book or equal.
- D. One (1) box of disposable gloves, 11" length and 6 mil thickness, shall be provided and stored in the lab/office area. The gloves shall be similar to the N-Dex gloves, Stock No. 41766, as listed in the USA Blue Book or equal.

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2.6 General Equipment for Chemical Solution Feed System

A. Chemical Feed System - Dry Weight Scale

A general purpose, hanging dial scale with a twenty (20) lb. capacity and one (1) oz. graduations shall be provided for the measurement of dry soda ash. The unit may be an open face style dial and it shall be constructed of heavy duty steel. A galvanized steel scoop and chain or a polyethylene measure scoop shall be provided.

PART 3 - EXECUTION

3.1 Installation:

In accordance with drawings, shop drawings and manufacturer's instructions.

3.2 Manufacturer's Representative's Services:

As specified

END OF SECTION 10850

