

670.5.01 Adjustments

General Provisions 101 through 150.

Section 676—Appurtenances for Water Systems

676.1 General Description

This work includes furnishing and installing drinking fountains, wash hydrants, and yard hydrants.

676.1.01 Definitions

General Provisions 101 through 150.

676.1.02 Related References

A. Standard Specifications

Section 500—Concrete Structures

Section 670—Water Distribution System

Section 800—Coarse Aggregate

Section 843—Concrete Pipe

B. Related Documents

General Provisions 101 through 150.

676.1.03 Submittals

General Provisions 101 through 150.

676.2 Materials

A. Drinking Fountains

Use the following materials to construct drinking fountains:

1. Fountain Construction

Use these materials to construct the fountain:

- A freeze-proof fountain and valve assembly with jug filler mounted in the base
- A chrome-plated cast bronze receptor or a 20 gauge (1mm) stainless steel receptor with a 1-1/4 in (31 mm) galvanized iron waste pipe connected to a 2 in (50 mm) galvanized iron drain pipe
- A chrome-plated vandal-proof bubbler locked to the receptor
- One freeze-proof valve and one flow regulator supplying the bubbler
- One freeze-proof valve and one flow regulator supplying the jug filler

2. Valve Construction

Use these materials to construct the valves:

- Use valves with a minimum 18 in (450 mm) bury, each with a 3/8 in (9 mm) copper pipe drain connected to a 2 in (50 mm) galvanized drain pipe
- Actuation by separate handles mounted at heights convenient to adults and children using a service stop
- A 6 in by 9 1/4 in (130 mm by 235 mm) stainless steel cover plate at each handle
- A common 3/4 in (19 mm) connection to a 1 in (25 mm) water supply line

3. Base of Fountain

Use these base materials for each drinking fountain:

- Class A Concrete, Section 500
- Rubble stone or brick according to the Plan
- Mortar and grout according to Subsection 834.2.03

B. Wash Hydrant

Use base materials consisting of Class A Concrete as specified in Section 500. Use other materials according to the Plans.

C. Yard Hydrant

Use materials according to the Plans, except the following:

Crushed Stone, Size 57	Section 800
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Use Marine Plywood that meets American Plywood Association requirements.

676.2.01 Delivery, Storage, and Handling

General Provisions 101 through 150.

676.3 Construction Requirements**676.3.01 Personnel**

General Provisions 101 through 150.

676.3.02 Equipment

General Provisions 101 through 150.

676.3.03 Preparation

General Provisions 101 through 150.

676.3.04 Fabrication

General Provisions 101 through 150.

676.3.05 Construction**A. Drinking Fountains**

Install drinking fountains according to the Plans.

Ensure that plumbing conforms to Section 670.

B. Wash Hydrants

Install wash hydrants according to the Plans and as follows:

1. Ensure that plumbing conforms to Section 670.
2. Construct concrete bases according to Section 500.

C. Yard Hydrants

Install yard hydrants according to the Plans and as follows:

1. Ensure that plumbing conforms to Section 670.
2. Construct a sump pit with each new yard hydrant as follows:
 - a. Build the sump pit to Plan dimensions.
 - b. Fill the pit with crushed stone, size No. 57.
 - c. Cap the pit with marine plywood cut to Plan dimensions.

D. Service Lines and Appurtenances

Provide service lines and appurtenances according to Section 670.

676.3.06 Quality Acceptance

General Provisions 101 through 150.

676.3.07 Contractor Warranty and Maintenance

General Provisions 101 through 150.

676.4 Measurement

All Items furnished and installed under this section are measured per each, complete in place and accepted. Measurement includes drainage connection and sump pit where applicable.

676.4.01

676.4.01 Limits

General Provisions 101 through 150.

676.5 Payment

All Items will be paid for at the Contract Unit prices.

Payment will be made under:

Item No. 676	Drinking fountain	Per each
Item No. 676	Wash hydrant	Per each
Item No. 676	Yard hydrant	Per each

676.5.01 Adjustments

General Provisions 101 through 150.

Section 680—Highway Lighting

680.1 General Description

This work includes furnishing and installing roadway and structure lighting systems according to the Specifications and Plan details.

680.1.01 Definitions

Conduit: Metallic or nonmetallic pipe, tube, or duct.

Rigid Conduit: Metallic conduit unless otherwise noted.

680.1.02 Related References

A. Standard Specifications

- Section 205—Roadway Excavation
- Section 500—Concrete Structures
- Section 681—Lighting Standards and Luminaires
- Section 682—Electrical Wire, Cable, and Conduit
- Section 683—High Level Lighting Systems
- Section 800—Coarse Aggregate
- Section 801—Fine Aggregate
- Section 832—Curing Agents
- Section 853—Reinforcement and Tensioning Steel
- Section 854—Castings and Forgings
- Section 870—Paint
- Section 920—Lighting Standards and Towers
- Section 921—Luminaires
- Section 922—Electrical Wire and Cable
- Section 923—Electrical Conduit
- Section 924—Miscellaneous Electrical Materials