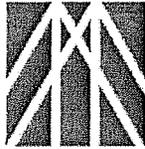


Milestone



June 27, 2011

Butler, Fairman & Seufert
Attn: Dave Garwood
8450 Westfield Blvd., Suite 300
Indianapolis, IN 46240-5920

RE: INDOT Contract R-31290-A Perimeter Parkway
Double Pumper Fire Hydrant

Mr. Garwood,

Per your discussions with Joe Ratcliff we are providing pricing for a double pumper fire hydrant.

ADDED ITEM

Item #	Description	Unit Price	Quantity	Total
NEW	Double Pumper Fire Hydrant	\$5,956.66	1 EA	\$5,956.66
	TOTAL ADD			\$5,956.66

The net change to the contract per Fire Hydrant will be a net change of \$1,606.66 (new hydrant \$5,956.66 – original hydrant \$4,350.00). This price is not valid for altering existing hydrant already placed. If you need further information or have any questions about the above pricing, please contact myself or Joe Ratcliff.

Respectfully,
MILESTONE CONTRACTORS, L.P.



Michael Bennet
Estimator

Cc: Rob Cochran, Joe Ratcliff, Kim Strunk

R-29161

Contract No. IR-29161

FIRE HYDRANT ASSEMBLY

Description

The Contractor shall furnish and install fire hydrants, including all labor, material, tools and equipment required, at the location shown on the plans, or where designated by the Purdue University Onsite Representative. The work described in this section shall be in accordance with the following:

(American Water Works Association) AWWA C502 - Dry-Barrel Fire Hydrants
(Underwriters Laboratories) UL 246 - Hydrants for Fire-Protection Service

Materials

Shop drawings and manufacturer's literature shall be submitted to the Purdue University Utility Engineer for approval. Fire Hydrants shall be in accordance with the following:

- a. Hydrants shall meet or exceed AWWA C502, latest revision and shall comply with Factory Mutual Research Corporation and Underwriters Laboratories UL 246 Standard.
- b. Hydrants shall have a 5 $\frac{1}{4}$ inch valve opening with 6 inch mechanical joint base and 6 inch mechanical joint auxiliary gate valve between water main and hydrant. Auxiliary gate valve shall be provided with valve box. The lower barrel shall be DI, equal to Class 52 pipe. Hydrants shall have a mechanical stop to prevent excessive torque on the stem.
- c. The main valve opening shall be designed so that removal of the seat, drain valve mechanism, internal rod, and all working parts can be removed through the top of the hydrant without disturbing the ground line joint or nozzle section. Hydrants shall have a drain hole. Hydrants shall be designed so that the valve will remain closed if the upper portion is removed or broken off.
- d. Hydrants shall be provided with a break flange and have two standard hose nozzles and one pumper nozzle to match existing Purdue University Standard. Hydrants shall be designed for 200 pounds working pressure and 400 pounds hydrostatic pressure and shall conform to the current specifications of the American Water Works Association. The upper valve plate shall be bronze and the valve seat shall be bronze threaded. The lower plate and internal parts of the hydrant shoe will have an epoxy coat.
- e. Hydrant Extensions: Fabricate in multiples of 6 inches with rod and coupling to increase barrel length.
- f. Hydrant Setting - For 60 inches cover without nozzles being closer than 18 inches to the ground and with ground mark at least 12 inches above ground.

g. Paint - Hydrants shall be delivered with priming coat of paint. After setting, they shall be given two (2) coats of exterior machinery enamel of the color used per NFPA 291 Standards.

h. Acceptable Manufacturers: Kennedy, Mueller, or Waterous

Construction Requirements

Fire hydrants shall be inspected by the Purdue University Onsite Representative at time of delivery to the Contractor and prior to installation. Each hydrant shall be cycled to full open and full closed positions to ensure that no internal damage or breakage has occurred during shipment and handling. All external bolts shall be checked for proper tightness.

After inspection, the hydrant valves shall be closed and the outlet nozzle caps replaced to prevent the entry of foreign matter. Stored hydrants shall be protected from weather elements with the inlets facing downward.

Fire hydrant installation shall be in accordance with the following:

- a. Hydrants shall be located as shown on the plans or as directed by the Purdue University Onsite Representative. The location shall provide complete accessibility and minimize the possibility of damage from vehicles or injury to pedestrians. When placed behind the curb, the hydrant barrel shall be set so that no portion of the pumper or hose nozzle cap will be less than eighteen to twenty-four inches, depending on local requirements, from the gutter face of the curb. All hydrants shall stand plumb with the pumper nozzle facing the curb. Hydrants having two hose nozzles 90° apart shall be set with each nozzle facing the curb at an angle of 45°. Hydrants shall be set to the established grade, with nozzles at least eighteen inches above the ground as shown or as directed by the Purdue University Onsite Representative. Unless otherwise shown each hydrant shall be connected to the main with a six inch branch connection controlled by an independent six inch gate valve.
- b. When hydrant installations have a greater than normal exposure to damage due to vehicular traffic (parking lot installations, unusual driving situation, etc.) the Purdue University Onsite Representative may authorize hydrant protection using steel pipe bollards. Bollards shall be located as necessary adjacent to the hydrant and in such a manner as not to interfere with the ability to connect hoses or operate the hydrant. Additionally, the bottom of the bollard and encasement shall be located above the hydrant supply piping and valve to prevent the possibility of damage to the piping should the bollard be displaced during vehicular contact.

- c. Unless otherwise directed by the Purdue University Onsite Representative, a drainage pit two feet in diameter and two feet deep shall be excavated below each hydrant. The pit shall be filled and compacted with coarse gravel or broken stone mixed with coarse sand, under and around the base of the hydrant to a level 6 inches above the waste opening. No hydrant drainage pit shall be connected to a sewer.
- d. The drainage pit shall be lined and covered with geotextile fabric and the fabric shall completely isolate the gravel or stone so that no fill material or adjacent earth comes in contact with pit material.
- e. In situations where the ground water table is above the drain opening of the hydrant barrel the Purdue University Onsite Representative, is to be notified. Then, if directed by Purdue University Onsite Representative,, the drain opening shall be plugged using a method acceptable to the hydrant manufacturer. In this situation the drainage pit is not required but special marking on the hydrant acceptable to the Purdue University Onsite Representative, is required to indicate the drain opening has been plugged. Prior to project acceptance if Contractor operates a hydrant having a plugged drain connection, Contractor is required to pump the barrel dry after each use.
- f. A concrete support block shall be provided at the base of each hydrant and shall not obstruct the drainage outlet of the hydrant. All fittings and appurtenances in the hydrant assembly shall utilize mechanical restraints in accordance with the plans.

Fire hydrant painting shall be in accordance with the following:

Hydrants shall be delivered with priming coat of paint. After setting, they shall be given two (2) coats of exterior machinery enamel to match the Purdue University, color standards. Contractor shall remove chains prior to painting.

Fire hydrant testing shall be in accordance with the following:

a. Pressure Test

- 1. Open the hydrant fully and fill with water; close all outlets.
- 2. To prevent caps from being blow off dry-barrel hydrants and to prevent other possible damage, vent air from the hydrant by leaving one of the caps slightly loose as the hydrant is being filled. After all air has escaped, tighten the cap before proceeding.
- 3. Apply line pressure.
- 4. Check for leakage at flanges, nozzles and operating stem.
- 5. If leakage is noted, repair or replace components or complete hydrant until no leaks are evident.

B. Drainage Test for Dry-Barrel Hydrants

1. Following the pressure test, close hydrant.
2. Remove one nozzle cap and place pylon or hand over nozzle opening.
3. Drainage rate should be sufficiently rapid to create a noticeable suction.
4. After backfilling, operate the hydrant to flush out any foreign material.
5. Tighten nozzle caps, then back them off slightly so that they will not be excessively tight; leave tight enough to prevent removal by hand.

Method of Measurement

The accepted quantities of fire hydrant assemblies shall be measured by the number of units of each installed and/or removed.

Basis of Payment

<u>Pay Item</u>	<u>Pay Unit Symbol</u>
Fire Hydrant Assembly.....	Ea
Fire Hydrant Assembly, Remove.....	Ea

MISCELLANEOUS EQUIPMENT, WATER

Description

The section includes all work related to, but is not limited to, miscellaneous equipment and the installation, use of equipment at all locations indicated in the Specifications or as shown on the Drawings as may be required for complete control of the entire system.

Work in this section includes but is not limited to the following:

1. Mechanical Joint Fittings (tees, reducers, flanges)
2. Cap and seal of disconnected pipes during construction of new facilities
3. Connection to existing meter pit
4. Pipe restraints
5. Flange gaskets
6. Grouting of existing water mains within railroad right-of-way
7. Tree protection/Landscape protection during construction of water main
8. Site restoration outside DOT right-of-way

The work described in this section shall be in accordance with the following:

- ANSI / AWWA C800 Underground Service Valves and Fittings
- ANSI / AWWA C906 Polyethylene Pressure Pipe and Fittings 4 in. thru 63 in. for Water Distribution
- ANSI / AWWA C907 Polyvinyl Chloride Pressure Fittings for Water
- Indiana Department of Environmental Management (IDEM) Regulations in 327 of the Indiana Administrative Code (IAC).

**INDIANA Department of Transportation
Construction Change Order and Time Extension Summary**

Contract Information

District:CRAWFORDSVILLE
DISTRICT

Contract No.: R -31290

AE:Seef, Erik

Letting Date:01/12/2011

PE/S:Garwood, Dave

Status:Draft

Change Order Information

Date Generated: 00/00/0000

Change Order No.: 006

Date Approved: 00/00/0000

EWA: Y or Force Acct: N

Reason Code: ERRORS & OMISSIONS, Utilities Related

Description: Change hydrants to Purdue approved hydrants

Original Contract Amount \$ 4,856,831.03

Current Change Order Amount \$ 0.00

Percent: 0.000 %

Total Previous Approved Changes \$ 11,936.00

Percent: 0.246 %

Total Change To-Date \$ 11,936.00

Percent: 0.246 %

Modified Contract Amount \$ 4,868,767.03

Time Extension Information

Date Initiated 00/00/0000

Date Completed 00/00/0000

Original Contract Time

SS Completion Date 00/00/0000 or SS Calendar/Work Days 0

SP Date 00/00/0000 or SP Days

(SS = Standard Specification, SP = Special Provision)

Time Element Description:

Current Time Extension

SS Days 0 SP Days 0 SP Days Value \$ 0.00

Previous Time Approved

SS Days by AE: _____ DCE: _____ SCE: _____ DDCM: _____

SS Days _____ SP Days Value \$ _____

Revised Contract Time

SS Completion Date 00/00/0000 or SS Calendar/Work Days 0

SS Date 00/00/0000 or SP Days 0

**INDIANA Department of Transportation
Construction Change Order and Time Extension Summary**

Review and Approval Information

Required Approval Authority AE:_____ DCE:_____ SCE:_____ * DDCM:_____ *
(\$ per Change Order) (- LE \$ 250K-) (- LE \$ 750K -) (-- LE \$ 2 M --) (-- GT \$ 2 M --)
(Days per Contract) (50 SS days) (100 SS days) (200 SS Days) (GT 200 SS days)

Verbal Approval Required? Y / N If Y, by _____ Date Issued _____

Total Change To-Date>5%? Y / N If Y , Copy to Program Budget Manager _____

Scope/Design Recommendation Y / N If Y, Referred to Project Manager(PM) _____
Required?

Date to PM _____ Date Returned _____

Approval Authority Concurs with PM? Y / N If Y, Concurrence by _____ Date _____

If N,Resolution: Approved _____ Disapproved _____

Resolved by _____ Date _____

LPA Signatures Required? Y / N If Y, Date to LPA _____ Date Returned _____

FHWA Signatures Required? Y / N If Y, Date to FHWA _____ Date Returned _____

* Field Engineer Recommendation (Required for SCE or DDCM Approval)

Field Engineer _____ Date _____

Comments: _____

Contract No:R -31290
Change Order No:006

INDIANA
Department of Transportation

Date:07/18/2011
Page: 3

Contract: R -31290
Project: 0501163 - 1005621 - State:0501163, 1005621
Change Order Nbr: 006
Change Order Description: Change hydrants to Purdue approved hydrants
Reason Code: ERRORS & OMISSIONS, Utilities Related

CLN	PCN	PLN	Item Code	Unit	Unit Price	CO Qty	Comment	Amount Change
0126	0501163	0121	720-96999	EACH	4,350.000	-5.000	C	Amount:\$ -21,750.00
Item Description: FIRE HYDRANT ASSEMBLY Supplemental Description1: Supplemental Description2:								
0126	1005621	0014	720-96999	EACH	4,350.000	-1.000	C	Amount:\$ -4,350.00
Item Description: FIRE HYDRANT ASSEMBLY Supplemental Description1: Supplemental Description2:								
0215	0501163	0215	720-96999	EACH	5,956.660	5.000	C	Amount:\$ 29,783.30
Item Description: FIRE HYDRANT ASSEMBLY Supplemental Description1: Purdue Specific Supplemental Description2:								
0216	1005621	0216	720-96999	EACH	5,956.660	1.000	C	Amount:\$ 5,956.66
Item Description: FIRE HYDRANT ASSEMBLY Supplemental Description1: Purdue Specific Supplemental Description2:								

Total Value for Change Order 006 = \$ 9,639.96

Whereas, the Standard Specifications for this contract provides for such work to be performed, the following change is recommended.
General or Standard Change Order Explanation

Purdue requires specific types for hydrants for the operating system and their fire department. Since this project was a West Lafayette project the Purdue special provision was left out of the contract book. This change price includes restocking of the original hydrants and installation of the new.

Change Order Explanation for Specific Line Item

It is the intent of the parties that this change order is full and complete compensation for the work describe above.
Notification and consent to this change order is hereby acknowledged.

Contractor: _____

Signed By: _____

Date: _____

NOTE: Other required State and FHWA signatures will be obtained electronically through the SiteManager system.

Contract No:R -31290
Change Order No:006

INDIANA
Department of Transportation

Date:07/18/2011
Page: 4

APPROVED FOR LOCAL PUBLIC AGENCY

(SIGNATURE)

(TITLE)

(DATE)

(SIGNATURE)

(TITLE)

(DATE)

SUBMITTED FOR CONSIDERATION

PE/S _____

APPROVED FOR INDIANA DEPARTMENT OF TRANSPORTATION

Approval Level

Name of Approver

Date

Status