# TECHNICAL DATA

# MICROFAST® QUICK RESPONSE UPRIGHT SPRINKLER VK300 (K5.6)

**The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058**
**Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com**

## 1. DESCRIPTION

The Viking Microfast® Quick Response Upright Sprinkler VK300 is a small, thermosensitive, glass-bulb spray sprinkler available in several different finishes and temperature ratings to meet design requirements. The special Polyester and Electroless Nickel PTFE (ENT) coatings can be used in decorative applications where colors are desired. In addition, these coatings have been investigated for installation in corrosive atmospheres and are listed/approved as corrosion resistant as indicated in the Approval Charts. (Note: **FM global approves the ENT coating as corrosion resistant.** FM Global has no approval classification Polyester coatings as corrosion resistant.)

## 2. LISTINGS AND APPROVALS

**cULus Listed:** Category VNIV
**FM Approved:** Classes 2002 and 2020

Refer to Approval Chart 1 and Design Criteria on for cULus Listing requirements and refer to Approval Chart 2 and Design Criteria FM Approval requirements that must be followed.

## 3. TECHNICAL DATA

### Specifications:

Minimum Operating Pressure: 7 psi (0.5 bar)*
Maximum Working Pressure: 175 psi (12 bar) wwp.
Factory tested hydrostatically to 500 psi (34.5 bar)
Testing: U.S.A. Patent No. 4,831,870
Thread size: 1/2” NPT, 15 mm BSP
Nominal K-Factor: 5.6 U.S. (80.6 metric**)
Glass-bulb fluid temperature rated to -65 °F (-55 °C)
Overall Length: 2-3/16” (56 mm)

*cULus Listing, FM Approval, and NFPA 13 installs require a minimum of 7 psi (0.5 bar). The minimum operating pressure for LPCB and CE Approvals ONLY is 5 psi (0.35 bar).

### Material Standards:

Frame Casting: Brass UNS-C84400 or QM Brass
Deflector: Brass UNS-C23000 or Copper UNS-C19500
Bulb: Glass, nominal 3 mm diameter
Belleville Spring Sealing Assembly: Nickel Alloy, coated on both sides with PTFE Tape
Screw: Brass UNS-C36000
Pip Cap and Insert Assembly: Copper UNS-C11000 and Stainless Steel UNS-S30400
For Polyester Coated Sprinklers: Belleville Spring-Exposed
For ENT Coated Sprinklers: Belleville Spring-Exposed, Screw and Pipcap - ENT plated

**Viking Technical Data may be found on The Viking Corporation’s Web site at http://www.vikinggroupinc.com. The Web site may include a more recent edition of this Technical Data Page.**

### Ordering Information: (Also refer to the current Viking price list.)

Order Viking Microfast® Quick Response Upright Sprinkler VK300 by first adding the appropriate suffix for the sprinkler finish and then the appropriate suffix for the temperature rating to the sprinkler base part number.
Finish Suffix: Brass = A, Chrome = F, White Polyester = M-/W, Black Polyester = M-/B, and ENT = JN
Temperature Suffix (°F/°C): 135°/57° = A, 155°/68° = B, 175°/79° = D, 200°/93° = E, and 286°/141° = G
For example, sprinkler VK300 with a 1/2” NPT thread, Brass finish and a 155 °F/68 °C temperature rating = Part No. 12978AB
**Available Finishes And Temperature Ratings:** Refer to Table 1.
**Accessories:** (Also refer to the “Sprinkler Accessories” section of the Viking data book.)
**Sprinkler Wrench:** Standard Wrench: Part No. 10896W/B (available since 2000)
**Sprinkler Cabinets:**
A. Six-head capacity: Part No. 01724A (available since 1971)
B. Twelve-head capacity: Part No. 01725A (available since 1971)

## 4. INSTALLATION

Refer to appropriate NFPA Installation Standards.

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## 5. OPERATION

During fire conditions, the heat-sensitive liquid in the glass bulb expands, causing the glass to shatter, releasing the pip cap and sealing spring assembly. Water flowing through the sprinkler orifice strikes the sprinkler deflector, forming a uniform spray pattern to extinguish or control the fire.

## 6. INSPECTIONS, TESTS AND MAINTENANCE

Refer to NFPA 25 for Inspection, Testing and Maintenance requirements.

## 7. AVAILABILITY

The Viking Microfast® Quick Response Upright Sprinkler VK300 is available through a network of domestic and international distributors. See The Viking Corporation web site for the closest distributor or contact The Viking Corporation.

## 8. GUARANTEE

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

**TABLE 1: AVAILABLE SPRINKLER TEMPERATURE RATINGS AND FINISHES**

| Sprinkler Temperature Classification | Sprinkler Nominal Temperature Rating[1] | Maximum Ambient Ceiling Temperature[2] | Bulb Color |
|---|---|---|---|
| Ordinary | 135 °F (57 °C) | 100 °F (38 °C) | Orange |
| Ordinary | 155 °F (68 °C) | 100 °F (38 °C) | Red |
| Intermediate | 175 °F (79 °C) | 150 °F (65 °C) | Yellow |
| Intermediate | 200 °F (93 °C) | 150 °F (65 °C) | Green |
| High | 286 °F (141 °C) | 225 °F (107 °C) | Blue |

**Sprinkler Finishes:** Brass, Chrome, White Polyester, Black Polyester, and ENT

**Corrosion-Resistant Coatings[3]:** White Polyester, Black Polyester, and Black PTFE. ENT in all temperature ratings except 135 °F (57 °C)

**Footnotes**

[1] The sprinkler temperature rating is stamped on the deflector.
[2] Based on NFPA-13. Other limits may apply, depending on fire loading, sprinkler location, and other requirements of the Authority Having Jurisdiction. Refer to specific installation standards.
[3] The corrosion-resistant coatings have passed the standard corrosion test required by the approving agencies indicated in the Approval Charts. These tests cannot and do not represent all possible corrosive environments. Prior to installation, verify through the end-user that the coatings are compatible with or suitable for the proposed environment. For automatic sprinklers, the coatings indicated are applied to the exposed exterior surfaces only. Note that the spring is exposed on sprinklers with Polyester, ENT, and PTFE coatings. For ENT coated automatic sprinklers, the waterway is coated.

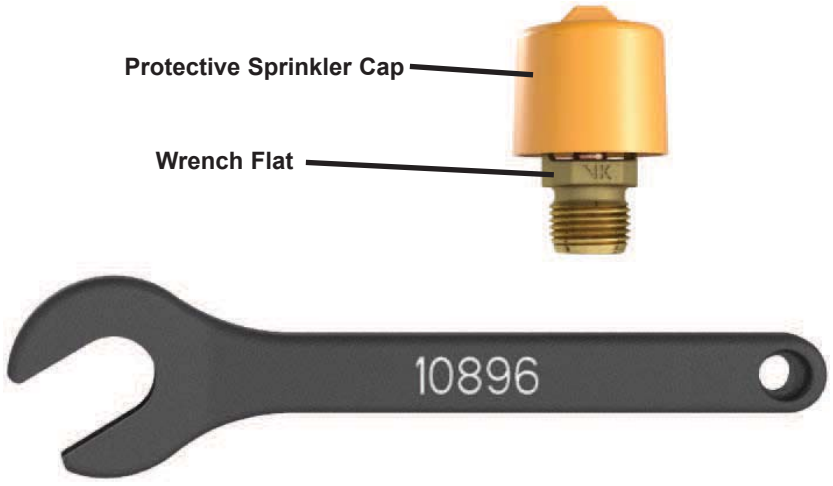


**Figure 1:**
**Standard Sprinkler Wrench 10896W/B**

| VIKING® | TECHNICAL DATA | MICROFAST® QUICK RESPONSE UPRIGHT SPRINKLER VK300 (K5.6) |
|---|---|---|

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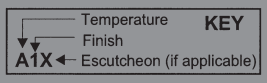
## Approval Chart 1 (UL)

**Microfast® Quick Response Upright Sprinkler VK300**
**Maximum 175 PSI (12 bar) WWP**




| Base Part Number[1] | SIN | Thread Size | | Nominal K-Factor | | Overall Length | | Listings and Approvals[3] | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | NPT | BSP | U.S. | metric[2] | Inches | mm | cULus | VdS | LPCB | NYC[8] | CE |
| 12978 | VK300 | 1/2” | 15 mm | 5.6 | 80.6 | 2-3/16 | 56 | A1, B2 | -- | -- | See footnote 7. | -- |
| *NOTICE - Product Below - Limited Availability (Contact Local Viking Office)* | | | | | | | | | | | | |
| 06661B | VK300 | 1/2” | 15 mm | 5.6 | 80.6 | 2-3/16 | 56 | A1, B2 | -- | -- | See footnote 7. | -- |

**Approved Temperature Ratings**

A - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 286 °F (141°C)
B - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 286 °F (141°C)

**Approved Finishes**

1 - Brass, Chrome, White Polyester[5,6], and Black Polyester[5,6]
2 - ENT[6]

**Footnotes**

[1] Base part number is shown. For complete part number, refer to Viking’s current price schedule.
[2] Metric K-factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.
[3] This table shows the listings and approvals available at the time of printing. Check with the manufacturer for any additional approvals.
[4] Listed by Underwriters Laboratories Inc. for us in the U.S. and Canada
[5] Other colors are available on request with the same Listings and Approvals as the standard colors.
[6] cULus Listed as corrosion resistant.
[7] Meets New York City requirements, effective July 1, 2008
[8] Accepted for use, City of New York Board of Standards and Appeals, Calendar Number 219-76-SA and City of New York Department of Buildings, MEA 89-92-E, Vol. 16.

## DESIGN CRITERIA - UL

(Also refer to Approval Chart 1 above.)

**cULus Listing Requirements:**

The Viking Microfast® Quick Response Upright Sprinkler VK300 is cULus Listed as indicated in Approval Chart 1 for installation in accordance with the latest edition of NFPA 13 for standard spray sprinklers.

- Designed for use in Light and Ordinary Hazard occupancies.
- The sprinkler installation rules contained in NFPA 13 for standard spray upright sprinklers must be followed.

**IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to page QR1-3 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards of NFPA, FM Global, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards, whenever applicable.**

| VIKING® | TECHNICAL DATA | MICROFAST® QUICK RESPONSE UPRIGHT SPRINKLER VK300 (K5.6) |
|---|---|---|

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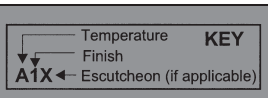
## Approval Chart 2 (FM)

**Microfast® Quick Response Upright Sprinkler VK300 Maximum 175 PSI (12 bar) WWP**




| Base Part Number[1] | SIN | Thread Size | | Nominal K-Factor | | Overall Length | | FM Approvals[3] (Refer also to Design Criteria below.) |
|---|---|---|---|---|---|---|---|---|
| | | NPT | BSP | U.S. | metric[2] | Inches | mm | |
| 12978 | VK300 | 1/2" | 15 mm | 5.6 | 80.6 | 2-3/16 | 56 | A1, B2 |
| *NOTICE - Product Below - Limited Availability (Contact Local Viking Office)* | | | | | | | | |
| 06661B | VK300 | 1/2" | 15 mm | 5.6 | 80.6 | 2-3/16 | 56 | A1, B2 |

**Approved Temperature Ratings**

A - 135 °F (57 °C), 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 286 °F (141°C)
B - 155 °F (68 °C), 175 °F (79 °C), 200 °F (93 °C), and 286 °F (141°C)

**Approved Finishes**

1 - Brass, Chrome, White Polyester[5], and Black Polyester[5]
2 - ENT[6]

**Footnotes**

[1] Base part number is shown. For complete part number, refer to Viking's current price schedule.

[2] Metric K-factor measurement shown is when pressure is measured in Bar. When pressure is measured in kPa, divide the metric K-factor shown by 10.0.

[3] This table shows the FM Approvals available at the time of printing. Check with the manufacturer for any additional approvals.

[5] Other colors are available on request with the same Approvals as the standard colors.

[6] FM approved as corrosion resistant.

## DESIGN CRITERIA - FM

(Also refer to Approval Chart 2 above.)

**FM Approval Requirements:**

The Microfast® Quick Response Upright Sprinkler VK300 is FM Approved as a quick response **Non-Storage** upright sprinkler as indicated in the FM Approval Guide. For specific application and installation requirements, reference the latest applicable FM Loss Prevention Data Sheets (including Data Sheet 2-0). FM Global Loss Prevention Data Sheets contain guidelines relating to, but not limited to: minimum water supply requirements, hydraulic design, ceiling slope and obstructions, minimum and maximum allowable spacing, and deflector distance below the ceiling.

**NOTE: The FM installation guidelines may differ from cULus and/or NFPA criteria.**

**IMPORTANT: Always refer to Bulletin Form No. F_091699 - Care and Handling of Sprinklers. Also refer to page QR1-3 for general care, installation, and maintenance information. Viking sprinklers are to be installed in accordance with the latest edition of Viking technical data, the appropriate standards of NFPA, FM Global, LPCB, APSAD, VdS or other similar organizations, and also with the provisions of governmental codes, ordinances, and standards, whenever applicable.**

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

# Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: December 20, 2016

Attention: **stl-cac@cannondesign.com**

Contact Person / WTA Field Inspector: Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mike Whitworth (WES)

Project No. WT 14127.01
WES 607

[ ] UPS [ ] Courier [X] **Email**

| Copies | No. | Description |
|---|---|---|
| 1 PDF | 211313F02 | (Submittal No.'s:) |
| | | (Cannon #211313-015) - (Paric #15051-0349) – (WES #607) |
| | | ➢ **Wet Pipe Sprinkler System Product Data** |
| | | |
| | | |

## *Remarks: See Submittal Review from Webb Enginnering.

c: **Kelvin Patel**
Kpatel@cannondesign.com

[X] ***Reviewed**

[X] ***No Exceptions Taken -**

[X] ***Amend and Resubmit**

[X] ***Make Corrections As Noted, No Resubmittal Required**

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.

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SERVICES INC.

1400 S. 3rd Street, Suite 201
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Fax: (314) 588-0604

# Letter of Transmittal

To: wtashop@wmtao.com

From: Mike Whitworth

Date: December 20, 2016

Re: Webster University ISB

WES No: 607

☐ For your Files ☐ For Review ☐ Please Comment ☐ Please Reply

| Item No. | Description | No. of Copies | Date |
|---|---|---|---|
| 1 | Shop Drawing Review – (213113-015)<br>211313 Wet Pipe Sprinkler System | 1 | 12/20/16 |
| | | | |
| | | | |
| | | | |

•Signature: Mike Whitworth

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The review of this submittal is limited to the general conformance with the designated design concept and intent of this project and with the general compliance of the information provided in the contract documents. All comments, remarks and notations made on the submittal(s) as a result of this review do not relieve the contractor from full compliance with requirements of the contract documents. Approval for a specific item shall not include approval of an assembly of which the item is not a component. The contractor is solely responsible for rough-in and installation confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordination of this work with that of other trades on this project; and in a safe and satisfactory manner. All work shall be installed in full compliance with the manufacturer's recommendation, Federal, State and Local rules and regulation and the Authority Having Jurisdiction (AHJ) and applicable adopted codes and standards.

PROJECT NAME: Webster University I
LOCATION: St. Louis Missouri
CLIENT PROJ. NO.: N/A
WES PROJ. NO.: 607
SPECIFICATION SECTION: 211313 Wet Pipe Sprinkler System
SUBMITTAL ITEM: See Below -

CONTRACTOR: J.F. Ahern Co.
CTR. SUBMITTAL #: 21 1313-015
SUBMITTAL DATE: November 29, 2016
DATE RECEIVED: December 07, 2016
RECEIVED VIA: E-Mail
RECEIVED FROM: WTA
DATE RETURNED: DECEMBER 20, 2016
RETURNED VIA: E-MAIL
RETRURNED TO: WTASHOP@WMTAO.COM

STATUS KEY:

NO EXCEPTION TAKEN
MAKE CORRECTIONS NOTED, NO RESUBMITTAL:
AMEND AND RESUBMIT
REJECTED, SEE REMARKS:
REVIEWED ONLY

| NEC | MCN | AAR | REJ | REV | ITEM | REMARKS |
|---|---|---|---|---|---|---|
| Pages numbers have been added to cut sheets for referencing | | | | | | |
| X | | | | | Page 001<br>Schedule 10 Pipe<br>Various Manufacturers | |
| X | | | | | Page 002<br>Schedule 40 Pipe<br>Various Manufacturers | |
| X | | | | | Pages 003 – 004<br>Test and Drain Valve<br>AGF Manufacture ring<br>Model – 1011A | |
| X | | | | | Pages 005 – 006<br>Backflow Preventer<br>Zurn Industries<br>Model – 350A | |
| X | | | | | Pages 007 – 008<br>Standard Duty Loop Hanger<br>Caddy<br>Model – 115 Series | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| X | | | | | Pages 009 – 010<br>Universal Beam Clamp<br>Caddy<br>Model – 300 Series | |
| X | | | | | Pages 011 – 016<br>Carbon Steel Anchor<br>Screw<br>Hilti<br>Model – 3.3.5 KWIK HUS-EZ (KH-EZ1) | |
| X | | | | | Page 017<br>Riser Clamp<br>PHD Manufacturing<br>Model – Fig. 550-551-553 | |
| X | | | | | Page 018<br>Universal Restraining Strap<br>Afcon<br>Model - 162 | |
| X | | | | | Pages 019 – 027<br>Sleeve Expansion Anchors<br>Powers Fasteners<br>Model – Lok-Bolt Hex Head and Rod Hanger | |
| X | | | | | Pages 028 – 031<br>Strut Channel<br>Gregory Strut Products<br>Model – G712OS, G712A, G5820S, G582A and G1320OS | |
| X | | | | | Page 032<br>Surge Restraint 115<br>Caddy<br>Model – SR6 | |
| X | | | | | Page 033<br>Screw Anchor/Hanger<br>ITW<br>Model – Sammy X-Press | |
| | | X | | | Pages 034 – 039<br>Quick Response Dry Pendent Sprinkler<br>Viking<br>Model - SIN Not Specified | 1. SIN numbers listed in submittal (VK172, VK176, VK180 on pages 037/038) is not listed on the FP drawings in the Sprinkler schedule. |
| X | | | | | Pages 040 -043<br>Microfast Quick Response Upright Sprinkler<br>Viking<br>Model – SIN VK300 | |
| | | X | | | Pages 044 -049<br>Microfast Quick Response Pendent Sprinkler<br>Viking<br>Model – SIN VK302 | 1. SIN number listed in submittal (VK302 on pages 047/048) is not listed on the FP drawings in the Sprinkler schedule. |

| | | | | | | |
|---|---|---|---|---|---|---|
| X | | | | | Pages 050 – 055<br>Microfast Quick Response Horizontal Sidewall Sprinkler<br>Viking<br>Model – SIN VK305 | |
| X | | | | | Pages 056 – 059<br>Microfast Quick Response Upright Sprinkler<br>Viking<br>Model – SIN VK350 | |
| | | X | | | Pages 060 – 065<br>Microfast Quick Response Pendent Sprinkler<br>Viking<br>Model – SIN VK352 (K8.0) | 1. SIN number listed in submittal (VK352 on pages 063/064) is not listed on the FP drawings in the Sprinkler schedule. |
| | | X | | | Pages 066 – 071<br>Microfast Quick Response Pendent Sprinkler<br>Viknig<br>Model – SIN VK352 (K8.0) | 1. SIN number listed in submittal (VK352 on pages 069/070) is not listed on the FP drawings in the Sprinkler schedule. |
| X | | | | | Pages 072 – 077<br>Mirage Standard and QR Concealed Pendent Sprinkler<br>Viking<br>Model – SIN VK462 | |
| X | | | | | Page 078<br>Spare Sprinkler Head Cabinet<br>FPPI<br>Model – Not indicated | |
| X | | | | | Page 079 – 089-091<br>Spare Sprinkler Head Cabinet<br>TYCO<br>Model – Not Indicated | |
| X | | | | | Pages 080 – 088<br>Sprinkler Escutcheons<br>Viking<br>Model - | |
| X | | | | | Pages 092 – 094<br>Sprinkler Guards<br>Viking<br>Model – D-1 | |
| X | | | | | Pages 095 – 100<br>Standard / QR Extended Coverage Upright Sprinkler<br>Viking<br>Model – SIN VK532 | |
| X | | | | | Pages 101 – 106<br>Standard / QR Extended Coverage Pendent Sprinkler<br>Viking<br>Model – SIN VK534 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| X | | | | | Pages 107 – 112<br>Mirage QR Extended Coverage Concealed Pendent Sprinkler<br>Viking<br>Model – SIN VK634 | |
| | | X | | | Pages 113 – 120<br>Concealed Dry Pendant Sprinkler<br>Reliable<br>Model – G5-56 Dry (SIN RA5114) | 1. Manufacturer and model/SIN number listed in submittal is not listed on the FP drawings in the Sprinkler schedule.<br>2. Color/finish of cover plate to be submitted to the Architect for review and approval. |
| X | | | | | Pages 121 - 124<br>Flexible Coupling<br>Victaulic<br>Model – Style 75 | |
| X | | | | | Pages 125 - 128<br>Reducing Coupling<br>Victaulic<br>Model – Style 750 | |
| X | | | | | Pages 129 – 131<br>FireLock Fittings<br>Victaulic<br>Model – Fire lock | |
| X | | | | | Pages 132 – 134<br>FireLock Rigid Coupling<br>Victaulic<br>Model – Style 005H | |
| X | | | | | Pages 135 – 136<br>Fire lock Flange Adapter<br>Victaulic<br>Model – Style 744 | |
| X | | | | | Pages 137 – 144<br>Mechanical T Bolted Branch Outlets<br>Victaulic<br>Model – Styles 920 and 920N | |
| X | | | | | Pages 145 – 149<br>Firelock Rigid Coupling<br>Victaulic<br>Model – Style 009N | |
| X | | | | | Pages 150 – 151<br>Threaded Mechanical Branch Tee<br>Anvil<br>Model – Fig. MT-30 | |
| X | | | | | Pages 152 – 153<br>Grooved Welded Steel Pipe Outlets<br>Vandewater International Inc.<br>Model - Various | |
| X | | | | | Pages 154 – 155<br>Welded Steel Pipe Outlets<br>Vandewater International Inc.<br>Model - Various | |

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|---|---|---|---|---|---|---|
| X | | | | | Page 156<br>DI Threaded Fitting –<br>90 Elbow<br>Anvil<br>Model – Fig 3201 | |
| X | | | | | Page 157<br>DI Threaded Fitting –<br>45 Elbow<br>Anvil<br>Model – Fig 3202 | |
| X | | | | | Page 158<br>DI Threaded Fitting –<br>Reducing 90 Elbow<br>Anvil<br>Model – Fig 3201R | |
| X | | | | | Page 159<br>DI Threaded Fitting –<br>Straight T<br>Anvil<br>Model – Fig 3205 | |
| X | | | | | Pages 160 - 161<br>DI Threaded Fitting –<br>Reducing T<br>Anvil<br>Model – Fig 3205R | |
| X | | | | | Page 162<br>DI Threaded Fitting<br>Anvil<br>Model – Bull Head T | |
| X | | | | | Page 163<br>DI Threaded Fitting<br>Cross<br>Anvil<br>Model - 3207 | |
| X | | | | | Page 164<br>DI Threaded Fitting<br>Anvil<br>Model – 3221R | |
| X | | | | | Page 165<br>DI Threaded Fitting<br>Anvil<br>Anvil<br>Model - 3121 | |
| X | | | | | Page 166<br>DI Threaded Fitting<br>Cap<br>Anvil<br>Model - 3224 | |
| X | | | | | Page 167-168<br>DI Threaded Fitting<br>Bushing<br>Anvil<br>Model - 3283 | |

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| | | | | | | |
|---|---|---|---|---|---|---|
| | | | | X | Pages 169 – 183<br>Flexible Sprinkler Hose<br>Victaulic<br>Model – Series AH2<br>Bracket AB1, AB7 and AB7 Adjustable | 1. This product is not listed in the construction documents for use on this project. Contractor has elected to incorporate into the delegated design. |
| X | | | | | Pages 184 – 185<br>Water Flow Detector<br>System Sensor<br>Model – WFD Series | |
| X | | | | | Pages 186 – 192<br>Supervisory Switch<br>Potter Electrical<br>Model – PCVS Series | |
| | X | | | | Pages 193 – 194<br>Electric Bell<br>Potter Electric<br>Model – Not Indicated | 1. Specified to be 10 inch diameter. Refer to specification section 211313, part 2.6, B4 and B-7. |
| X | | | | | Page 195<br>Service Gauge<br>Ashcroft<br>Model – 35W1005PH02LXUL300 | |
| X | | | | | Pages 196 – 199<br>Intumescent Sealent<br>STI<br>Model - Series LCI | |
| X | | | | | Page 200<br>Fire Pump Suction and Discharge Gauges<br>Alenco<br>Series AG-1000L | |
| X | | | | | Page 201<br>Suction and Discharge Gauge Assembly<br>A-C Fire Pump systems<br>Model – Not Indicated | |
| | X | | | | Pages 202 – 203<br>Fire Pump Test Header<br>Potter Roemer<br>Model – 5864-x-x-6-D-NST | 1. Assembly to be mounted vertically, in space available. |
| Note: Fire protection drawings list sprinkler Viking model Mirage, SIN VK464 (31 total) and Viking model Dry, Sin VK194, (24 total) in the Sprinkler Schedule. These two sprinkler heads are not included in this submittal. | | | | | | |

REVIEWED BY: Michael R. Whitworth DATE: December 20, 2016

THESE COMMENTS ARE TO BE ATTACHED TO ALL COPIES OF THE SHOP DRAWING REFERENCED ABOVE.

CANNONDESIGN

# SUBMITTAL IDENTIFICATION SHEET

**To be completed by Contractor/CM**

WEBSTER UNIVERSITY ISB
PROJECT NAME

8274 BIG BEND BLVD
ADDRESS

NUMBER

WEBSTER UNIVERSITY
OWNER

CANNON DESIGN
ARCHITECT / ENGINEER

Joe Voypick
SUBMITTED BY

211313-015
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

211313
SPECIFICATION SECTION / PARAGRAPH

Ahern Fire Protection
MANUFACTURER / SUPPLIER

ITEM / PRODUCT ID

REQUIRED DATE

PRIORITY

◯ CRITICAL

ITEM BEING SUBMITTED (check only one)

- ◯ Shop Drawings
- ◯ Samples ( _____ copies)
- ◯ LEED Submittal
- ◯ Certification / Qualifications
- ◯ Record Documents
- ◉ Product Data
- ◯ Coordination Drawing
- ◯ Calculations
- ◯ Schedules
- ◯ O&M Manuals
- ◯ Other _____

ITEM BEING SUBMITTED FOR (check only one)

◉ Action ◯ Information Only ◯ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)

PARIC

PARIC CORPORATION
SUBMITTAL STAMP

THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

By:
Devin D. Gates

Joe Voypick
REVIEWED BY

11/30/16
DATE

**To be completed by Reviewer**

21 1313-015
CANNON DESIGN SUBMITTAL NUMBER

11/30/16
RECEIVED DATE

- ◯ **A. No Exceptions Taken**
  No further review of submittal is required.
- ◯ **B. Make Corrections Noted**
  Incorporate corrections in work; resubmission is not required.
- ◯ **C. Revise and Resubmit**
  Revise as noted, and resubmit for review.
- ◯ **D. Rejected**
  Submittal is not in compliance with Contract Documents; provide new submittal.
- ◯ **E. For Record / Information Only**
  Submittal was reviewed for Record / Information purposes only.
- ◯ **F. Not Required for Review**
  Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS ◯ See attached sheet(s) for additional comments

REVIEWED BY

DATE

77 Westport Plaza
Suite 250
St. Louis, MO 63146

# TRANSMITTAL

**No. 15051-0349**

*Paric Corporation*

**PROJECT:** 15051-Webster University Interdisciplinary Science Building

**DATE:** 11/29/2016

**TO:** Cannon Design
1100 Clark Ave
St Louis MO 63102

Fax;
314-241-2203

**RE:** Wet Pipe Sprinkler System Product Data

**ATTN:** Kelvin Patel

**JOB: 15051**

| WE ARE SENDING: | SUBMITTED FOR: | ACTION TAKEN: |
|---|---|---|
| ☐ Shop Drawings | ☑ Approval | ☐ Approved as Submitted |
| ☐ Letter | ☐ Your Use | ☐ Approved as Noted |
| ☐ Prints | ☐ As Requested | ☐ Returned After Loan |
| ☐ Change Order | ☐ Review and Comment | ☐ Resubmit |
| ☐ Plans | | ☐ Submit |
| ☐ Samples | **SENT VIA:** | ☐ Returned |
| ☐ Specifications | ☐ Attached | ☐ Returned for Corrections |
| ☑ Other: Product Data | ☐ Separate Cover Via: | ☐ Due Date: |

| *Item* | *Package* | *Code* | *Rev.* | *Copies* | *Date* | *Description* | *Status* |
|---|---|---|---|---|---|---|---|
| Submittal | | 211313-015 | 1 | | 11/29/2016 | Wet Pipe Sprinkler System Product Data | Submitted |

**NOTES:**

**CC:**

**Signed:** _____

Devin Gates