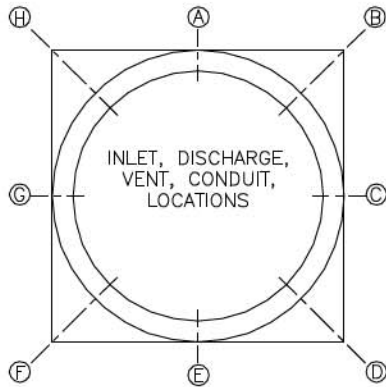


FIBERGLASS BASIN SPEC SHEET

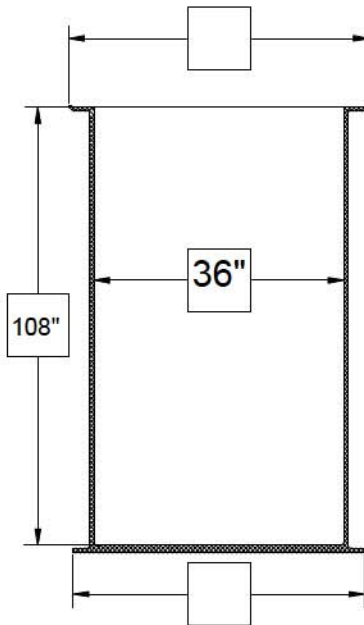


(A) SIZE _____ TYPE _____ TOP TO £ _____
 (B) SIZE _____ TYPE _____ TOP TO £ _____
 (C) SIZE _____ TYPE _____ TOP TO £ _____
 (D) SIZE _____ TYPE _____ TOP TO £ _____
 (E) SIZE _____ TYPE _____ TOP TO £ _____
 (F) SIZE _____ TYPE _____ TOP TO £ _____
 (G) SIZE _____ TYPE _____ TOP TO £ _____
 (H) SIZE _____ TYPE _____ TOP TO £ _____

ANTI-FLOATATION FLANGE

SPECIFY:

- ☐ NONE
☐ FIBERGLASS (ROUND)
☐ FIBERGLASS ENCAPSULATED
 ASTM A-36 STEEL (SQUARE)



PUMP MOUNTING STUDS

SPECIFY:

- ☐ NONE
☐ SIMPLEX
☐ DUPLEX

FIBERGLASS BASIN SHORT SPECIFICATION

The resins used shall be a commercial grade polyester and shall be evaluated as a laminate by test or determined by previous service to be acceptable for the intended environment.

The reinforcing material shall be a commercial grade of glass fiber (continuous strand, chopped-strand, continuous mat and/or noncontinuous mat) having a coupling agent which will provide a suitable bond between the glass reinforcement material and resin.

The FRP laminate wall thickness shall vary with the wet well height to provide the aggregate strength necessary to meet the tensile and flexural physical properties requirements. The wet well FRP wall laminate must be designed to withstand wall collapse or buckling based on a hydrostatic pressure of 62.4 lbs. per sq. ft.; a saturated soil weight of 120 lbs. per cu. ft.; a soil modulus of 700 pounds per sq. ft.; and, the pipe stiffness values as specified in ASTM D3753. The wet well FRP laminate must be constructed to withstand or exceed two times the assumed loading on any depth of the wet well.

The finished FRP laminate will have a Barcol hardness of at least 90% of the resin manufacturer's specified hardness for the fully cured resin. The Barcol hardness shall be the same for both interior and exterior surfaces.

The wet well top flange shall have an outside diameter at least 4.0 inches greater than the inside diameter of the wet well. A four or six hole pattern shall accommodate the mounting of a cover with at least 0.25 inches in diameter 300 series stainless steel fasteners. Noncorroding stainless steel threaded inserts shall be fully encapsulated with noncontinuous mat or chopped-strand glass fiber reinforcement. The inserts shall have an offset tab to prevent stripping or spinning out when removing and reinserting cover fasteners.

PUMP INFORMATION

MFR: _____
 TYPE: _____
 MODEL: _____
 QDC: _____

INDUSTRIES
TOPP
 INCORPORATED

BASIN SPEC. SHEET

Reference: -

Highway 25 North P.O. Box 420
 Rochester, IN 46975
 Phone: 800/354-4534 Fax: 574/283-6106

Scale: None

Drawn By: RM

App'd By: .

Date: 06/26/03

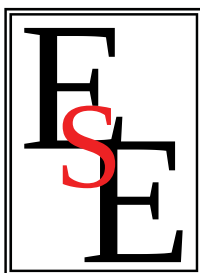
Supersedes Prints
 Prior To: 06/26/03

This print is and contains confidential proprietary information owned exclusively by TOPP INDUSTRIES, INC. It is furnished on a strictly confidential basis. The recipient herein, but is not limited to the condition that this print will not only be used as a record or to identify or inspect parts or for other information purposes and will not be used to manufacture or produce the manufacture of the same shown in this print by any other source than TOPP INDUSTRIES, INC.

Reference No: 10090

Revisions

① First Released 06/27/03



Engineered Equipment Sales

Division of Debco Equipment Company, Inc.

1814 South Third Street
Saint Louis, MO 63104-4040

Submittal

314.646.0074 Phone
314.646.0078 Fax

May 11, 2016

To: Ferguson

Project: Webster University Science

We are pleased to submit the following equipment for your approval:

SP-1 & 2

Two (2) Weil 2224 vertical 4" wastewater pumps. The pumps will be capable of handling 2-1/2" solids, will have a capacity of 350gpm at 25tdh, and will be powered by a 5hp, 1750rpm, TEFC, 460/3 motor. The pumps will be suitable for installation in a 108" deep basin. The pumps will be controlled off/on/lag by a Weil 8211K2014 pedestal switch. An auxiliary switch 8211K7015 will activate the high water alarm in the panel. The Weil 8155T-100 control panel will be in a NEMA 1 enclosure with a high water horn and dome lamp. The basin will be fiberglass and will be 36" in diameter and 108" deep. We will provide a H600R ring grommet for the 6" inlet pipe (field installed). The basin cover will be a Weil 8805K1316S.

Sincerely,

Mike Busse

Michael D. Busse

This proposal incorporates our standard terms and conditions by reference. If you do not have a copy contact us immediately.

Subject to Factory Standard Warranty

Proposals good for 30 days



SP-1

W2224

WEIL

SP-1 / SP-1 SUMP PUMP

TWO (2) WEIL 2224 VERTICAL 4" WASTEWATER PUMPS. THE PUMPS WILL BE CAPABLE OF HANDLING 2- 1/2" SOLIDS, WILL HAVE A CAPACITY OF 350GPM AT 25TDH, AND WILL BE POWERED BY A 5HP, 1750RPM, TEFC, 460/3 MOTOR. THE PUMPS WILL BE SUITABLE FOR INSTALLATION

M

WEIL

IN A 108" DEEP BASIN. THE PUMPS WILL BE CONTROLLED OFF/ON/LAG BY A WEIL 8211K2014 PEDESTAL SWITCH. AN AUXILIARY SWITCH 8211K7015 WILL ACTIVATE THE HIGH WATER ALARM IN THE PANEL. THE WEIL 8155T-100 CONTROL PANEL WILL BE IN A NEMA 1 ENCLOSURE

M

WEIL

WITH A HIGH WATER HORN AND DOME LAMP. THE BASIN WILL BE FIBERGLASS AND WILL BE 36" IN DIAMETER AND 108" DEEP. WE WILL PROVIDE A H600R RINGER GROMMET FOR THE 6" INLET PIPE (FIELD INSTALLED). THE BASIN COVER WILL BE A WEIL 8805K1316S.

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: June 3, 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

☒

Email

Copies	No.	Description
1 PDF	221429P01	(Submittal No.'s:
		(Cannon #-22 1429-003) - (Paric #15051-) - (WES #607)
		➤ Sump Pumps Product Data:
		• Sump Pumps SP-1, SP-2 & SP-3
		• Elevator Sump Pumps ESP-1 & ESP-2

***Remarks: See Submittal Review from Webb Engineering.**

c: Kevin Patel
Kpatel@cannondesign.com

☒

***Reviewed**

☒

***No Exception Taken -**

☐☒

***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.



1400 S. 3rd Street, Suite 201
St. Louis, Missouri 63104
Phone: (314) 588-0600
Fax: (314) 588-0604

Letter of Transmittal

To: **wtashop@wmtao.com**

From: **Mike Whitworth**

Date: **June 03, 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 – 22 1429-003 Sump Pumps	1	06-03-2016

•Signature: Mike Whitworth

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: WU-ISB
 LOCATION: St. Louis, MO
 CLIENT PROJ. NO.: NA
 WES PROJ. NO.: 608
 SPEC SECTION: 22 1429-003
 SUBMITTAL ITEM: See Below -

CONTRACTOR: DeLuca Plumbing LLC
 CTR. SUBMITTAL #: 221429-003
 SUBMITTAL DATE: May 25, 2016
 DATE RECEIVED: May 26, 2016
 RECEIVED VIA: E-Mail
 RECEIVED FROM: WTA
 DATE RETRND: June 03, 2016
 RETURNED VIA: E-Mail
 RETURNED TO: wtashop@wmtao.com

STATUS KEY:

NO EXCEPTION TAKEN							
NEC	MCN	MAKE CORRECTIONS NOTED, NO RESUBMITTAL IS REQUIRED:					
		AMEND AND RESUBMIT					
		AAR	REJ	REJECTED, SEE REMARKS:			
				REVIEWED ONLY			
				REV	ITEM	REMARKS	
X					Sump Pump SP-1 and SP-2 Weil Pump Co. Model 2224 – 4 Inch Vertical Wastewater Pump Model 8211K2014 Pedestal Switch Model 8211K7015 Auxiliary Switch for High Water Alarm Model 8155T-100 Control Panel Fiberglass Basin – 36 x 108 Model 8805K1316S Basin Cover		
X					Sump Pump SP-3 Weil Pump Co. Model 1411 - 2 Inch Submersible Wastewater Pump Model 8341K1011 High Water Remote Alarm Panel Model 8233K1006 Tethered Float Fiberglass Basin – 36 x 108 Model 8805K1316K Basin Cover		
	X				Elevator Sump Pumps ESP-1 and ESP-2 Weil Pump Co. Model 1411-OSS Elevator Pump System	There are two separate elevator sump pump systems required. One for each of the hoistway pits	

REVIEWED BY: Mike Whitworth DATE: June 03, 2016

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

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

PROJECT NAME	
ADDRESS	
NUMBER	
OWNER	
ARCHITECT / ENGINEER	
SUBMITTED BY	
CONTRACTOR / CM SUBMITTAL NO.	CANNON DESIGN SUBMITTAL NO.
DRAWING / DETAIL REFERENCE	SPECIFICATION SECTION / PARAGRAPH
MANUFACTURER / SUPPLIER	ITEM / PRODUCT ID
REQUIRED DATE	PRIORITY
	☐ CRITICAL

ITEM BEING SUBMITTED (check only one)

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

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 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

REVIEWED BY	DATE

To be completed by Reviewer

CANNON DESIGN SUBMITTAL NUMBER
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. 15051-0051

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 05/25/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Sump Pumps 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		221429-003	1		05/25/2016	Sump Pumps Product Data	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

Shop Drawing Submittal

Project Name: WEBSTER ISB

Specification # **221429-01**

Specification Description: SUMP PUMPS
SP1-SP3 & ESP-1 – ESP-2

Date: 05-23-16

General Contractor / Construction Manager: PARIC

ARCHITECT: KWA

ENGINEER: William Tao

Contractor: DeLuca Plumbing, L.L.C.
8465 Delport Drive
St. Louis, MO 63114

Supplier: FERGUSON

Manufacturer: Various

Reviewed & Approved by: DeLuca Plumbing 05-23-16

Action: Forward to GC/CM for Review & Approval

--