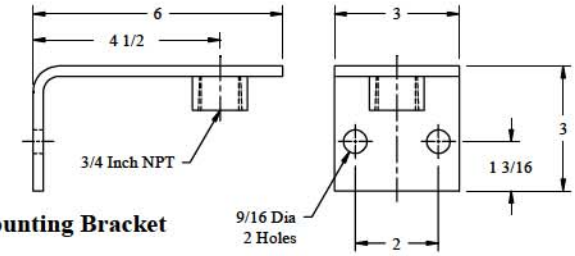
WEIL Tethered Level Control 8230

The 8230 level controls utilize pole mounted tethered switches. The pole may be suspended from either a wet well cover or a bracket fastened to the wall of the wet well.

Each tethered switch includes a cord grip and strap mount for mounting to a 3/4 inch pole.

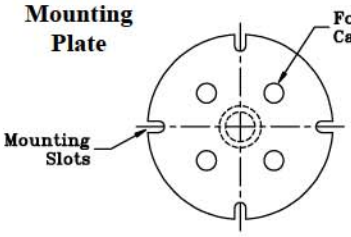
The 8230 tethered switch is normally open, closing on liquid rise. Use with Weil 8100 Control Panels. The switch is not rated for motor loads.

- Single-pole switch has 16/2 cord with 2 wires, black/white.
- 115 volt, 3 amp pilot duty.



Mounting Bracket

Mounting Plate



Duplex System

If the liquid level activates Switch FSA the high water alarm circuit will turn on.

The Lag Pump will start if the liquid level activates Switch FS3. Both pumps continue to run until the liquid level deactivates Switch FS1.

Lead Pump starts when the liquid level activates Switch FS2. The lead pump will run until the liquid level deactivates Switch FS1.

Configuration	Switches Required
Simplex	2
Simplex with Alarm	3
Duplex	3
Duplex with Alarm	4

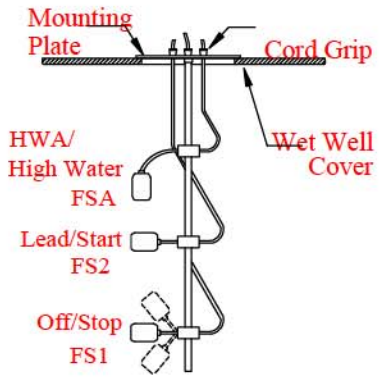
8230 Level Control

Order Number	Type of Assembly	Cord Length	Qty. of Switch	Approx. Wt. Lbs.
8233K1006	Single-Pole Switch Only	20	1	4
8233K1014	Single-Pole Switch Only	40	1	6

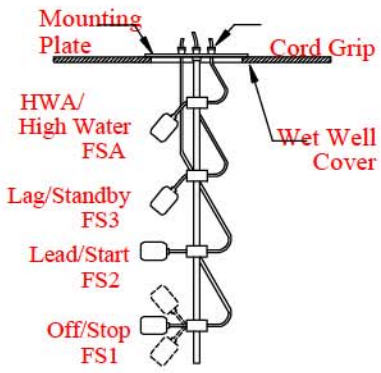
8230 Options

Option	Description
Cord	Cord - Additional 10 feet per switch.
314.399.000	Mounting Bracket - For sidewall, suspends 3/4 inch pipe from wet well wall. Pipe not included.
315.445.001	Mounting Plate - Round 8-inch diameter with four holes for level control cable cord grips. Fastens to wet well cover with fastners. Suspends 3/4 inch pipe from wet well cover. Pipe not included.
304.331.096	Mounting Pipe - 3/4 inch schedule 40, 10 feet long. Threaded on one end.

Simplex System



Duplex System



How to Order: Specify Order Number, Wet Well Depth, and Options.
F.O.B. Cedarburg (Milwaukee), Wisconsin or Irvine, California

Engineered Equipment Sales

Division of Debco Equipment Company, Inc.

1814 South Third Street
Saint Louis, MO 63104-4040

314.646.0074 Phone
314.646.0078 Fax

Submittal

May 11, 2016

To: Ferguson

Project: Webster University Science

We are pleased to submit the following equipment for your approval

SP-3

One (1) **Weil 1411** submersible 2” wastewater pumps. The pump will be capable of handling 1/2” solids, will have a capacity of 25gpm at 25tdh, and will be powered by a 1/2hp, 1750rpm, 115/1 motor. The pump will be controlled off/on by a differential float switch with a piggy back three prong grounded plug. A Weil 8341K1011 high water alarm and includes a Weil 8233K1006 tethered float. 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 Topp C36SSA.

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***

FERGUSON ENTERPRISES, INC.®

SP-3

W1411	WEIL	WEIL SUMP PUMP SYSTEM

WM TAO & ASSOCIATES
CONSULTING ENGINEERS

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 [X] **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 Enginnering.

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

[X] ***Reviewed**

[X] ***No Exception Taken -**

[ ]

[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.

WEBB
ENGINEERING
SERVICES INC.

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

WES
WEBB ENGINEERING SERVICES INC.
1400 S. 3rd Street, Suite 201 • St. Louis, Missouri 63104 • 314.588.0600 • *fax* 314.588.0604
www.webb-engineering.com

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 RETRNED: June 03, 2016
RETURNED VIA: E-Mail
RETURNED TO: wtashop@wmtao.com

STATUS KEY:

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

NEC	MCN	AAR	REJ	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.

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

221429-003
CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

DRAWING / DETAIL REFERENCE

221429
SPECIFICATION SECTION / PARAGRAPH

DeLuca Plumbing LLC
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

5/25/16
DATE

To be completed by Reviewer

22 1429-003
CANNON DESIGN SUBMITTAL NUMBER

5/25/16
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. 15051-0051

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