

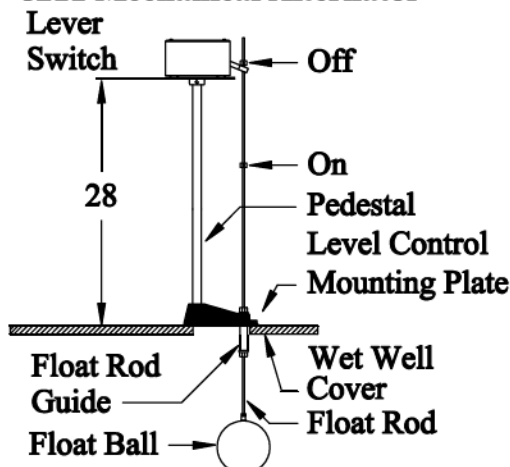
WEIL**Duplex Pump Control Panel****8155**

Duplex

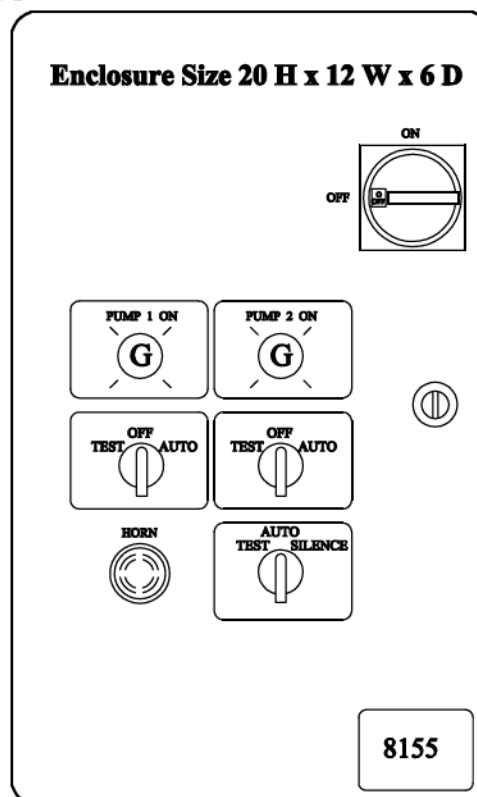
Use with Mechanical Alternator

Single-Phase or Three-Phase - Type 1 Steel Enclosure - U/L Label

- The 8155 Duplex Panel controls two pumps. It is a deluxe full featured panel that includes a high water alarm system and a lockable through-the-door disconnect.
- Panel can be operated on 50 or 60 Hertz power.
- Ideal for controlling 4100 or 4200 Condensate Return Systems
- Use with 8211 Mechanical Lever Alternator

8211 Mechanical Alternator**Control Panel Selection Guide**

- Determine Phase and Voltage
- Determine maximum run current in amps required by the pump motor.

Enclosure Size 20 H x 12 W x 6 D

Motor Protector Amp Range	Order Number			Approx. Weight Lbs.
	Single-Phase 115 Volts	Single-phase 208 or 230 Volts	Three-Phase 208, 230, 460 Volts	
1.0 - 1.6	8155-L-016	8155-D-016	8155-T-016	30
1.6 - 2.5	8155-L-025	8155-D-025	8155-T-025	30
2.5 - 4.0	8155-L-040	8155-D-040	8155-T-040	30
4.0 - 6.3	8155-L-063	8155-D-063	8155-T-063	30
6.3 - 10.0	8155-L-100	8155-D-100	8155-T-100	30
10.0 - 16.0	8155-L-160	8155-D-160	8155-T-160	30
16.0 - 20.0	8155-L-200	8155-D-200	8155-T-200	31
20.0 - 25.0	8155-L-250	8155-D-250	8155-T-250	33

Panel Includes

- U/L Listed Label
- One panel disconnect; through-the-door with door interlock. The mechanical interlock prevents the door from being opened when the disconnect is in the ON position. Lock is not provided.
- Two lockable pump disconnects, on motor overload protector. Lock is not provided.
- Two Contactors-Industrial Duty.
- Two Overloads-one per pump. Ambient compensated bi-metallic (Class 10) motor overload circuit protector. Instantaneous magnetic trip for short circuit protection. Single-phase protection for three-phase motors. Field adjustable within the amp range.
- Control system - 115V with 100 VA control transformer, fused primary and fused secondary. Single-phase 115-volt has a fused control circuit.

Options

8100K7053 HWA Dome Light - Lexan, red flashing, on top of panel. Light remains on until condition is corrected. Type 1

How to Order: Specify Order Number, System Phase and Voltage, Pump Motor HP, and any Options.

F.O.B. Cedarburg (Milwaukee), Wisconsin

- Pump run switches - one per pump. Three position TOA (test-off-automatic) with spring return to off from test, mounted on door.
- Green light on the door indicates power to pump motor. One light per pump.
- Pump run status isolated contacts.
- High Water Alarm System, Type 1.
 - HWA Test-Auto-Silence switch with spring return from test and silence position, mounted on door.
 - Horn, 95 dB, mounted on door.
 - Two isolated contacts for remote monitoring and/or telephone connection.
 - Alarm circuit may be field modified to use 115-volt AC external power source.
- Control terminal board, numbered and wired.
- Layout and schematic CAD diagrams are provided. Installer connections at terminal board are clearly marked.

SN-8155-4

R

Replaces SN-8155, June 1, 2014

D-35 SN-8155

OCTOBER 23, 2014

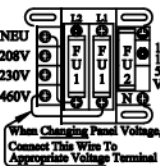
8155

WEIL WI 5/7/2013 1:20 PM

H8155-T-AE

Layout & Schematic 3-Phase AD IC LT .dwg

PANEL NAME
PLATE INCLUDES:
 -System Voltage
 -Motor Amp Range
 -MAX Panel Amps
 -Phase & HZ
 -Enclosure Type



Installer to Supply Branch Circuit Protection in accordance with NEC and local codes.
 Fuses (LP-J or Equivalent) for Branch Circuit Protection 1.25 X full load amps of both motors, Plus 1 Amp for C.P..

Dotted lines (— — —) represent Field Connections.

Wire Colors: Black = Power Green = Ground
 Red = Control White = Common (Neutral)
 Yellow = Alarm Circuit

Pump should rotate in the direction of the Arrow on the pump case. Change rotation of the pump at the control panel. Interchange wires: T1 And T2 On M1 For Pump 1. T1 And T2 On M2 For Pump 2.

Wires are Individually Numbered.

M1 & M2 = Motor Contactors

MP1 & MP2 = Motor Circuit Protectors

SS1 & SS2 = Spring Return Test To Off

SS3 = Spring Return Test And Silence To Auto

⊖ = Component Coil

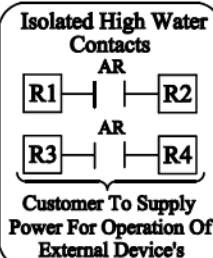
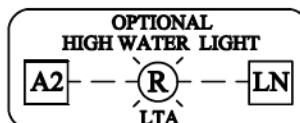
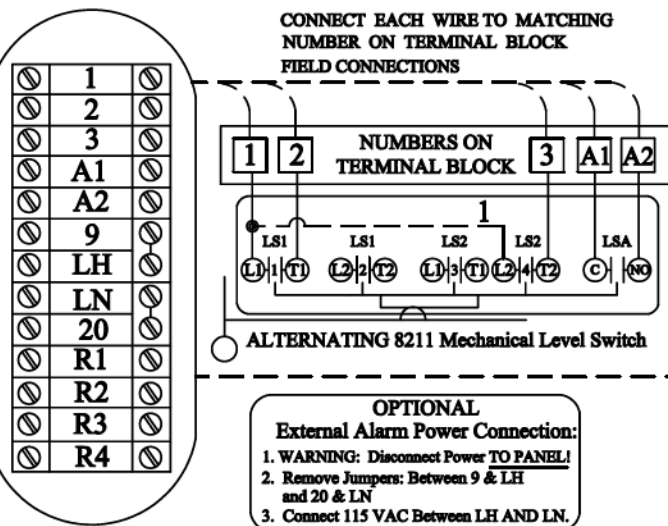
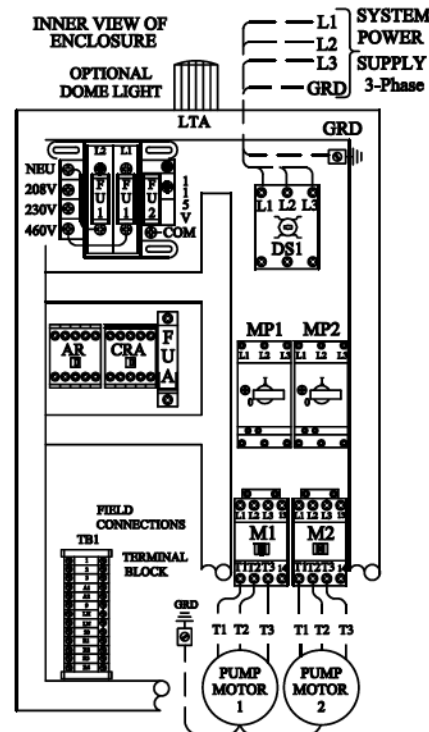
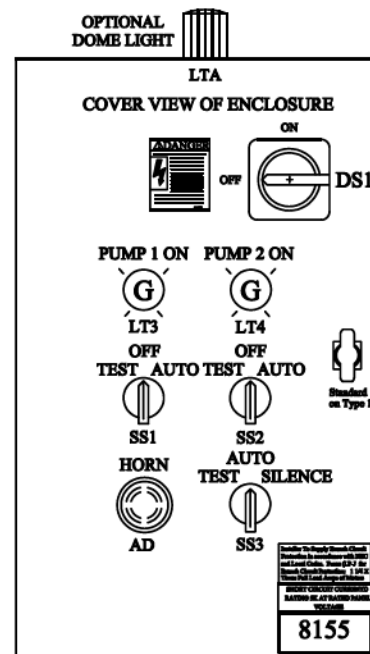
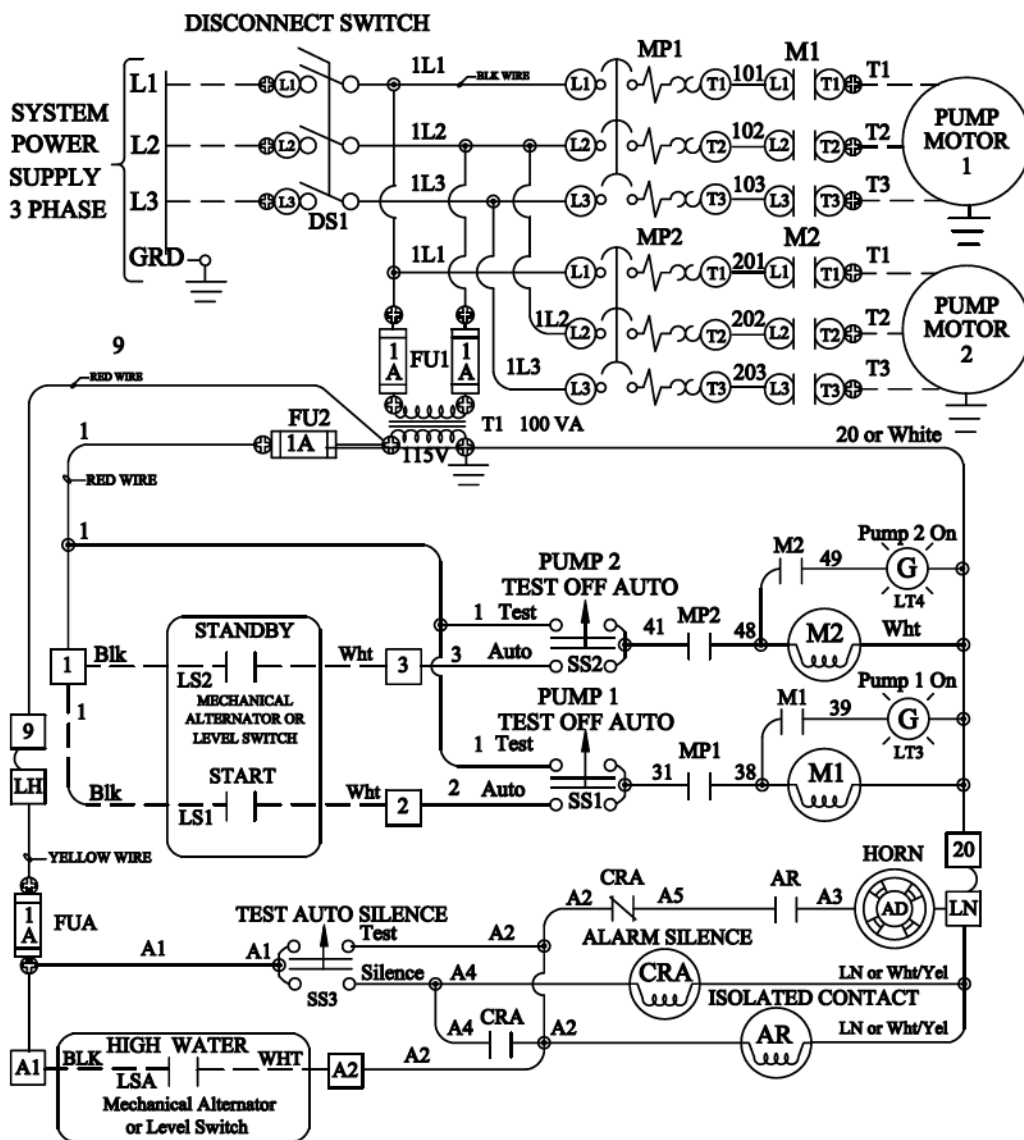
□ = Numbers on Terminal Blocks (TB1 or TB2).

○ = Numbers on Components.

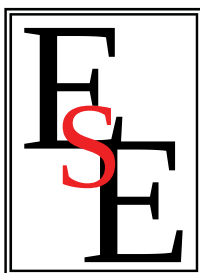
| = Normally Open Contact on Components.

N = Normally Closed Contact on Components.

Caution: Connection of any other device to the Control Power Source of this Panel will cause improper operation and Void the Warranty.



8211 MECHANICAL ALTERNATOR
 Contacts 1 & 2 close Simultaneously
 Contacts 3 & 4 Close Simultaneously
 Contacts 1 & 2 Alternate with Contacts 3 & 4
 ALL Contacts Close on High Water



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 ringer 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.



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

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