

Item No.	Qty.	Catalog Number / Details
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POWER-DRY II TRANSFORMER

061-00

1

Designation: US-1
CLASS 7420 POWER-DRY TRANSFORMER
SQUARE D SECONDARY UNIT SUBSTATION

POWER-DRY (VPI) TRANSFORMER
1000 kva rated
PRIMARY VOLT: 4160 DELTA
30 KV BIL
SECONDARY VOLT: 480Y/277
10 KV BIL
STANDARD 60 HERTZ
IMPEDANCE: 5.75%
+/- 7.5% TOLERANCE
CONDUCTOR: COPPER WINDINGS
TEMP: 220 DEG. VPI POLY RESIN INS. CLASS
115 RISE OVER 30 AVG - 40 MAX AMB
TAPS: 2-2.5% FCAN, 2-2.5% FCBN
ALTITUDE: STD. 3300 FEET MAXIMUM
64 DB SOUND LEVEL

MODIFICATIONS:

AA-FA 33% OVERLOAD RATING WITH
MODEL 98 TEMPERATURE MONITOR
120V CONTROL POWER FROM ADJACENT LV GEAR
ALUMINUM TRANSFORMER NAMEPLATE
LAMINATED PLASTIC CUSTOMER ID NAMEPLATE
DESIGNATION: T-US1
UL LISTING
INDOOR CABINET WITH DRIP HOOD
WRAPPED FOR SHIPPING
PAINT COLOR ANSI 61
.25 X 2.00 IN COPPER GROUND BUS
SEISMIC SDS 1.85
ENERGY EFFICIENT PER DOE 2016
MIN EFFICIENCY (50% LOAD) = 99.28%

HIGH VOLTAGE TERMINATIONS:

PRIMARY CABLE (STANDARD)
SIDEWALL MOUNTED ON RIGHT (SEGMENT-4)
CONNECTION TO HVL
SOLIDLY GROUNDED SYSTEM WITH
THREE INTERMEDIATE CLASS
3 KV ARRESTERS

LOW VOLTAGE TERMINATIONS:

SIDEWALL MOUNTED ON LEFT (SEGMENT-2)
CONNECTION TO QED 2 < 4000 AMPS
4000 AMP & BELOW CONNECTION DETAILS

Item No.	Qty.	Catalog Number / Details
		TRANSFORMER TESTS: ----- RATIO TEST POLARITY TEST PHASE RELATION TEST NO-LOAD LOSS TEST EXCITATION CURRENT TEST IMPEDANCE VOLTAGE TEST LOAD LOSS TEST APPLIED POTENTIAL TEST INDUCED POTENTIAL TEST RESISTANCE MEASUREMENT TEST TEST REPORT REQUIRED (STD FORMAT) FACTORY QC IMPULSE TST HV ONLY NOTES: ----- SPECIFICATION ON RECORD STANDARDS: IEEE C57.SERIES SECONDARY FLEX CONNECTORS TO BE SHIPPED WITH THE LOW VOLTAGE SWITCHGEAR.

Revision (06012014/06012014) XX

FACTORY DRAWINGS TO FOLLOW.
APPROXIMATE DIMENSIONS OF TRANSFORMER ARE
100"H x 84"W x 60"D

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: July 19, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Bill Shaw

Project No. WT 14127.01

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	264000E01	(Submittal No. 264000-001) Electrical Distribution

Submittal Review Comments

Circuit breaker size and position shall match panel schedules on sheets E0503, 504, 505, & 506.

c: Kelvin Patel
Kpatel@cannondesign.com

☐ Furnish as Submitted

☐ Furnish as Noted

☐ Rejected

☒ ***Revise & Resubmit**

☐ Reviewed

☐

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.

WTASHOP - Webster ISB - 26 4000-001

From: STL-CAC <STL-CAC@CANNONDESIGN.COM>
To: 'Patrick Garner' <pgarner@wmtao.com>, WTASHOP <wtashop@wmtao.com>
Date: 7/5/2016 11:40 AM
Subject: Webster ISB - 26 4000-001
Cc: "Patel, Kelvin" <kpatel@CANNONDESIGN.COM>, "Grossman, Lynn" <lgrossman@C...>
Attachments: 264000-001 Electrical Distribution.pdf

Attached for review.

Melissa Pirtle

Construction Admin

CANNONDESIGN

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St. Louis, Missouri 63102
T [314.425.8797](tel:314.425.8797) • M
cannondesign.com



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0114

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 07/05/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Electrical Distribution

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		264000-001	1		07/05/2016	Electrical Distribution	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

Transmittal

To Paric Corporation

Date 7/1/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-005

We are sending you:

☒ Attached

☐ Under separate cover, the following:

☐ Preliminary Drawings

☐ Samples

☐ Construction Drawings

☐ Copy of Letter

☐ Specifications

☐ Other _____

Quantity	Drawing #	Date/Revision	Description
1			Submittal for Distribution - Spec Section
			26 40 00

These are transmitted as checked:

☒ For Your Review & Comment

☐ Approved As Noted

☒ For Approval

☐ Returned For Corrections

☐ For Your File

☐ Approved As Submitted

☐ As Requested

☐

Copy:

Transmittal

Enclosure

Rick Branstetter

Signed: Rick Branstetter, Project Manager

Webster University ISB

Approval Drawing Package

Factory Order #: 37999262

06/13/2016

Distributor:
Graybar

Contractor/Installer:
Guarantee Electric / TD4

Consulting Engineer:
Wm Tao & Associates

Lou Feldhaus
Sales Representative

Jake Kaufman
Project Manager
North American Operating Division
(636) 329-2265
jacob.kaufman@schneider-electric.com

Life Is On

Schneider
Electric

TABLE OF CONTENTS

UNIT SUBSTATIONS

BILL OF MATERIALS AND DRAWINGS

UNIT SUBSTATION 1: US-1

METAL-ENCLOSED SWITCHGEAR: US-1

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SWITCHBOARD: US-1

UNIT SUBSTATION LITERATURE

Unit Substation Brochure

HVL 5...38 kV Load Interrupter Switchgear - Brochure

Power Dry II- Dry-Type, Small Power Transformer Brochure

Model 98A Digital Temperature Controller For Medium Voltage Transformers

Power-Style QED-2 Switchboard Brochure

Internal Modular SPD Brochure

PowerLogic PM8000 Series Intermediate Metering Technical Data Sheet

NW Breaker Brochure

Micrologic Trip Units for Masterpact Circuit Breakers Brochure

INTEGRATED POWER CENTERS

BILL OF MATERIALS AND DRAWINGS

SB1

SB2

1EH1 - 1EL1

1EL1

1SH1 - 1SL1

LITERATURE

Integrated Power Center 2 (IPC2)

PANELBOARDS

PANELBOARD SCHEDULE AND DRAWINGS

LITERATURE

I-Line Panelboard Handout

NF Panelboard Handout

NQ Panelboard Handout

I-Line SPD

Internal Modular SPD Brochure

SurgeLoc SPD for NQ Panelboards

CONTACTORS AND STARTERS

BILL OF MATERIALS AND DRAWINGS

8538SCG

8538SCA - EF-1

8538SCA - KEF-1

2510FG

LITERATURE

Manual Starters - Type F

Manual Starters - Type M and T

8538 Combination Starter Catalog

SAFETY SWITCHES

BILL OF MATERIALS AND DRAWINGS

D211N

H365

HU361

H361

HU362

POWER MONITORING AND CONTROL

BILL OF MATERIALS

LITERATURE

MCTAS-485 Terminator

FUSE

BILL OF MATERIALS

LITERATURE

LPJ Fuses 1 - 60 Amps

LPJ Fuses 70 - 600 Amps