

REV	DESCRIPTION	BY	DATE	-	----	--	--/--/--
-	----	--	--/--/--	-	----	--	--/--/--

PHYSICAL DATA CONTINUED

BLANK ENDWALLS
COPPER SOLID NEUTRAL
SPD DRY CONTACTS
SPD SURGE COUNTER
SPD PEAK SURGE RATING/PHASE: 100kA
SPD LINE TO GRD PROTECT

-----STANDARD EQUIPMENT NAMEPLATE-----
Engraved as Follows

LINE 1: 2LL4
COLOR: White Surface / Black Letters
SIZE: 3.50" Wide x 1.00" High (Std)
TYPE: Plastic/Adhesive - Screw-on

JOB NAME:	WEBSTER UNIVERSITY ISB	EQUIPMENT DESIGNATION:	2LL4
JOB LOCATION:	WEBSTER GROVES MO	EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	August 03 2016		
DRAWING STATUS:	QUOTE	DWG#	037999262-01
		PG 2	OF 2
		REV	-

Q2C Number: 37999262

Quote Number: 3

Change Order Rev Number: 4

Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
010-00	1	Designation: BNH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Single Main: 400A/3P LA Circuit Breaker Incoming Conductors: 1 - #1 - 600,(2)#1 - 250 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 86H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH86BE Front Cat No: NC86VS Ref. Drawing: PBA554 Feeders: 2 - Sub-Feed Circuit Breakers: 200A/3P JG 3 - 15A/3P EGB 2 - 70A/3P EGB 2 - 45A/3P EGB 18 - 20A/1P EGB Prepared Space 3 - 20A/1P EGB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: BNH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
011-00	1	Designation: 1NH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Single Main: 175A/3P JG Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 4/0 AWG Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 68H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH68BE Front Cat No: NC68S Ref. Drawing: PBA553 Feeders: 30 - 20A/1P EGB 12 - 20A/1P EGB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NH1 Size: 3.50" Wide x 1.00" High (Std)

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
012-00	1	Designation: 1NH2 NF ML PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Main Lug Only: 225A Incoming Conductors: 1 - #6 - 350 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 30 Circuit Interior Type 1,Box: 38H x 20W x 5.75D Incoming: Top Trim: Surface with Door Box Cat No: MH38BE Front Cat No: NC38S Ref. Drawing: PBA550 Feeder: 4 - 15A/3P EGB 12 - 20A/1P EGB Prepared Space 1 - 70A/3P EGB 1 - 40A/3P EGB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1NH2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
013-00	1	Designation: 2NH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Single Main: 175A/3P JG Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 4/0 AWG Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 68H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH68BE Front Cat No: NC68S Ref. Drawing: PBA553 Feeder: 30 - 20A/1P EGB 12 - 20A/1P EGB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2NH1

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
014-00	1	Designation: 3NH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated Single Main: 175A/3P JG Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 4/0 AWG Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 68H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH68BE Front Cat No: NC68S Ref. Drawing: PBA553 Feeders: 24 - 20A/1P EGB 12 - 20A/1P EGB Prepared Space 2 - 35A/3P EGB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 3NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
015-00	1	Designation: 4NH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated SPD 120kA per Phase/60kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P JG Circuit Breaker Incoming Conductors: 1 - 3/0 - 350 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 68H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH68BE Front Cat No: NC68S Ref. Drawing: PBA553T Feeders: 21 - 20A/1P EGB 12 - 20A/1P EGB Prepared Space 1 - 20A/3P EGB 2 - 15A/3P EGB Optional Features:

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 4NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
016-00	1	Designation: 4SH1 NF MB PNLB (INT,BOX,TRIM) NF Panelboard Consisting of 480Y/277V 3Ph 4W 60Hz SCCR: 22kA Fully Rated SPD 120kA per Phase/60kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 150A/3P JG Circuit Breaker Incoming Conductors: 1 - #4 - 4/0 AWG Bus: Copper: Silver/Tin Plated CU Ground Bar 30 Circuit Interior Type 1,Box: 62H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH62BE Front Cat No: NC62S Ref. Drawing: PBA553T Feeders: 3 - 70A/3P EGB 1 - 15A/3P EGB 18 - 20A/1P EGB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 4SH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
017-00	1	Designation: BNL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH50BE Front Cat No: NC50S Ref. Drawing: PBA707A

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Feeders: 24 - 20A/1P QOB 3 - 25A/2P QOB 1 - 30A/1P QOB 1 - 15A/1P QOB 10 - 20A/1P QOB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: BNL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
018-00	1	Designation: 1NL2 NQ ML PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Main Lug Only: 225A Incoming Conductors: 1 - #6 - 350 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 38H x 20W x 5.75D Incoming: Top Trim: Surface with Door Box Cat No: MH38BE Front Cat No: NC38S Ref. Drawing: PBA701A Feeders: 39 - 20A/1P QOB 3 - 15A/1P QOB 1 - 100A/2P QOB 1 - 60A/2P QOB 1 - 30A/1P QOB 1 - 30A/2P QOB 2 - 20A/1P QOB ST Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1NL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
019-00	1	Designation: 1NL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 62H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH62BE Front Cat No: NC62S Ref. Drawing: PBA707A Feeders: 55 - 20A/1P QOB 2 - 15A/1P QOB 1 - 30A/1P QOB 1 - 30A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
020-00	1	Designation: 1NL3 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 42 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH50BE Front Cat No: NC50S Ref. Drawing: PBA707A Feeders: 41 - 20A/1P QOB 1 - 15A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1NL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
021-00	1	Designation: 2NL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated

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Project Name: WEBSTER UNIVERSITY ISB

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Item No.	Qty.	Catalog Number / Details
		Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH56BE Front Cat No: NC56S Ref. Drawing: PBA707A Feeders: 55 - 20A/1P QOB 2 - 15A/1P QOB 1 - 30A/1P QOB 1 - 20A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 2NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
022-00	1	Designation: 3NL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 62H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH62BE Front Cat No: NC62S Ref. Drawing: PBA707A Feeders: 57 - 20A/1P QOB 1 - 30A/1P QOB 1 - 20A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 3NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
023-00	1	Designation: 4NL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH56BE Front Cat No: NC56S Ref. Drawing: PBA707A Feeders: 1 - 15A/3P QOB 43 - 20A/1P QOB 1 - 20A/2P QOB 1 - 30A/2P QOB 2 - 25A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 4NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
024-00	1	Designation: 1LL1 NQ ML PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Main Lug Only: 225A Incoming Conductors: 1 - #6 - 350 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 38H x 20W x 5.75D Incoming: Top Trim: Surface with Door Box Cat No: MH38BE Front Cat No: NC38S Ref. Drawing: PBA701A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Line 1: 1LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
025-00	1	Designation: 1LL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 72 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 53 - 20A/1P QOB 1 - 20A/1P QOB Prepared Space Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
026-00	1	Designation: 2LL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 41 - 20A/1P QOB

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Project Name: WEBSTER UNIVERSITY ISB

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Item No.	Qty.	Catalog Number / Details
		1 - 15A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
027-00	1	Designation: 2LL3 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56 Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
028-00	1	Designation: 2LL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar

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Project Name: WEBSTER UNIVERSITY ISB

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Item No.	Qty.	Catalog Number / Details
		54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
029-00	1	Designation: 2LL4 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
030-00	1	Designation: 3LL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter

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Project Name: WEBSTER UNIVERSITY ISB

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Item No.	Qty.	Catalog Number / Details
		w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 34 - 20A/1P QOB 4 - 30A/2P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 3LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
031-00	1	Designation: 3LL3 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
032-00	1	Designation: 3LL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
033-00	1	Designation: 3LL4 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL4 Size: 3.50" Wide x 1.00" High (Std)

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
034-00	1	Designation: 3LL5 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
035-00	1	Designation: 4LL1 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification -

Q2C Number: 37999262

Quote Number: 3

Change Order Rev Number: 4

Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
036-00	1	Designation: 4LL3 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 56H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH56BE Front Cat No: NC56F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
037-00	1	Designation: 4LL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F

Q2C Number: 37999262

Quote Number: 3

Change Order Rev Number: 4

Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
038-00	1	Designation: 4LL4 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
039-00	1	Designation: 4LL5 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated

Q2C Number: 37999262

Quote Number: 3

Change Order Rev Number: 4

Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Flush with Door Box Cat No: MH50BE Front Cat No: NC50F Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
040-00	1	Designation: 2LL5 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated SPD 100kA per Phase/50kA per Mode SPD line to grd protect w/SPD Surge Counter w/SPD Dry Contacts Single Main: 225A/3P QB Circuit Breaker Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 54 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Bottom Trim: Surface with Door Box Cat No: MH50BE Front Cat No: NC50S Ref. Drawing: PBA707A Feeders: 42 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
041-00	1	Designation: 1SL2 NQ MB PNLB (INT,BOX,TRIM) NQ Panelboard Consisting of 208Y/120V 3Ph 4W 60Hz SCCR: 10kA Fully Rated Single Main: 150A/3P QB Circuit Breaker Main Acc: Feed Thru Lugs

Q2C Number: 37999262

Quote Number: 3

Change Order Rev Number: 4

Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

Item No.	Qty.	Catalog Number / Details
		Incoming Conductors: 1 - #4 - 300 kcmil Bus: Copper: Silver/Tin Plated CU Ground Bar 30 Circuit Interior Type 1,Box: 50H x 20W x 5.75D Incoming: Top Trim: Surface with Door Box Cat No: MH50BE Front Cat No: NC50S Ref. Drawing: PBA707A Feeders: 2 - 20A/2P QOB 26 - 20A/1P QOB Optional Features: Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1SL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: September 7, 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	264000E01A	(Submittal No.'s) (R&B CxSRC)
		(Cannon #264000-003) - (Paric #15051-0197) - (WES #607)
		• Panel Schedule - Resubmittal

***Submittal Review Comments**

Furnish as Noted: See mark-ups.

Submit Specified Items:

- **US-1**
- **SB-1**
- **SB-2**
- **1EL1**
- **1EH1**
- **1GH1**
- **1SH1**
- **1SL1**

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

☐ Furnish as Submitted

☒ ***Furnish as Noted**

☐ Rejected

☐ Revise & Resubmit

☐ Reviewed

☒ ***Submit Specified Items**

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.

To be completed by Reviewer

DATE _____



PARIC
EXPERIENCE. EXCELLENCE.

77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No 15051-0197

Paric Corporation

PROJECT: 15051-Webster University Interdisciplinary Science Building

DATE: 08/27/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Panel schedule

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:	☐ Separate Cover Via:	☐ Due Date:

<i>Item</i>	<i>Package Code</i>	<i>Rev. Copies</i>	<i>Date</i>	<i>Description</i>	<i>Status</i>
Submittal	264000-003	1	08/27/2016	Panel schedule	Submitted

NOTES:

CC:

Signed: _____
Devin Gates



3415 Bent Avenue
St. Louis, MO 63116
Phone: (314) 772-5400
Fax: (314) 772-2526

Transmittal

To Paric Corporation

Date 8/3/16

Job Number 11317

Job Name Webster Univ. ISB Building

Attention Devin Gates

Transmittal Number 11317-015

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			Re-Submittal for Panel Schedules (to match Drawing
			Panel Schedules) - 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

☐

***See attached panel drawings showing the breakers placed per the Tao schedules. Panel 1GH1**

cannot have the breakers placed as Tao shows on their schedule so it is not included in this resubmittal.

Copy:

Transmittal

Enclosure

—

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—

—

—

—

Rick Branstetter

Signed: Rick Branstetter, Project Manager



SQUARE D COMPANY
801 CORPORATE CENTER DRIVE
O'FALLON, MO 63368

PANELBOARD RE-SUBMITTAL

Q2C Number: 37999262

Quote Number: 3

Change Order Rev Number: 4

Project Name: WEBSTER UNIVERSITY ISB
Project Sub-Name: INTERDISCIPLINARY SCIENCE BUILDING
Project Location: WEBSTER GROVES, MO
Quote Name: PANEL BREAKER USER PLACEMENT
Through Addenda Number: 0
Bid Date: 5/2/2016
Consultant / Specifier: WILLIAM TAO & ASSOC INC
Contractor / Installer: GUARANTEE ELECTRIC
Sales Representative: LOUIS FELDHAUS

Conditions of Sale

This Quotation is subject to Coordinated Project Terms.

Payment Terms: STANDARD

Billing Type(s):

Currency: US DOLLARS

Quote Markings

REVISED WITH BREAKERS PLACED PER SCHEDULES

REV	DESCRIPTION	BY	DATE	---	---	---	---
---	---	---	---	---	---	---	---

CKT NO	ACCESSORIES	TYPE	RATING AMP/P	S/N	M/B 225A QB	S/N	RATING AMP/P	TYPE	ACCESSORIES	CKT NO
	Surge Counter Dry Contacts	SPD 100kA/3						SPD 100kA/3	Surge Counter Dry Contacts	
13		QOB	20 / 1				20 / 1	QOB		14
15		QOB	20 / 1				20 / 1	QOB		16
17		QOB	20 / 1				20 / 1	QOB		18
19		QOB	20 / 1				20 / 1	QOB		20
21		QOB	20 / 1				20 / 1	QOB		22
23		QOB	20 / 1				20 / 1	QOB		24
25		QOB	20 / 1				20 / 1	QOB		26
27		QOB	20 / 1				20 / 1	QOB		28
29		QOB	20 / 1				20 / 1	QOB		30
31		QOB	20 / 1				20 / 1	QOB		32
33		QOB	20 / 1				20 / 1	QOB		34
35		QOB	20 / 1				20 / 1	QOB		36
37		QOB	20 / 1				20 / 1	QOB		38
39		QOB	20 / 1				20 / 1	QOB		40
41		QOB	20 / 1				20 / 1	QOB		42
43		QOB	20 / 1				20 / 1	QOB		44
45		QOB	20 / 1				20 / 1	QOB		46
47		QOB	20 / 1				20 / 1	QOB		48
49		QOB	20 / 1				20 / 1	QOB		50
51		QOB	20 / 1				20 / 1	QOB		52
53		QOB	20 / 1				20 / 1	QOB		54

PHYSICAL DATA

ENCLOSURE Type 1

Flush with Door

FRONT CAT#: NC50F

BOX CAT#: MH50BE

DIMENSIONS:

50’’H x 20’’W x 5.75’’D

WIRE BENDING SPACE:

TOP – 10.47

BOTTOM – 5

SIDE – 6.13

PBA: 707A

BUSSING: Copper

Silver/Tin Plated

OPTIONAL FEATURES:

SEISMICALLY QUALIFIED : IBC/ASCE7

SHIP TOGETHER

Copper GROUND BAR

(Continued on next page.)

ELECTRICAL DATA

SYSTEM: 208Y/120V 3Ph 4W 60Hz

System Ampacity: 225A

10kA SYMS. SCCR

MAIN: MAIN BREAKER QB 225A

Top FEED

10kA AIR

INCOMING CONDUCTORS(S) PER NEC

Wire Bending Space:

#4 – 300 kcmil

BRANCH MOUNTING TYPE: BOLT-ON

-----BRANCH SUMMATION-----

42 – 20A/1P QOB

JOB NAME:	WEBSTER UNIVERSITY ISB	EQUIPMENT DESIGNATION:	2LL4
JOB LOCATION:	WEBSTER GROVES MO	EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	June 13 2016	DWG#	037999262-01
DRAWING STATUS:	QUOTE	PG 1	OF 2 REV -

REV	DESCRIPTION	BY	DATE					
-	-----	--	--/--/--	-	-----	--	--/--/--	--

PHYSICAL DATA CONTINUED

BLANK ENDWALLS
COPPER SOLID NEUTRAL
SPD DRY CONTACTS
SPD SURGE COUNTER
SPD PEAK SURGE RATING/PHASE: 100kA
SPD LINE TO GRD PROTECT
-----STANDARD EQUIPMENT NAMEPLATE-----
Engraved as Follows
LINE 1: 2LL4
COLOR: White Surface / Black Letters
SIZE: 3.50" Wide x 1.00" High (Std)
TYPE: Plastic/Adhesive - Screw-on

JOB NAME:	WEBSTER UNIVERSITY ISB	EQUIPMENT DESIGNATION:	2LL4
JOB LOCATION:	WEBSTER GROVES MO	EQUIPMENT TYPE:	NQ (Circuit Breaker Type) PANEL 1 OF 1
DRAWN BY:	(Q2C)	DRAWING TYPE:	ONE LINE DIAGRAM
ENGR:			
DATE:	June 13 2016		
DRAWING STATUS:	QUOTE	DWG# 037999262-01	PG 2 OF 2 REV -

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	TYPE	VOLTAGE	AIC	MOUNTING	PBA	NOTES AND REMARKS
1GH1	I-LINE	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	418	Ship Together, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar, Standard Mains and Feeders Mechanically Restrained Branch User Placement Standard Nameplate: Engraved as Follows Line 1: 1GH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1LL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Surface with Door	701A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1LL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NH2	NF	480Y/277V 3Ph 4W 60Hz	22kA	Top Trim: Surface with Door	550	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NH2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Surface with Door	701A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
1NL3	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1NL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	TYPE	VOLTAGE	AIC	MOUNTING	PBA	NOTES AND REMARKS
1SL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Surface with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 1SL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL3	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL4	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2LL5	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2NH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
2NL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 2NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	TYPE	VOLTAGE	AIC	MOUNTING	PBA	NOTES AND REMARKS
3LL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3LL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3LL3	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3LL4	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3LL5	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3NH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
3NL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 3NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4LL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, SPD Model BIA, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	TYPE	VOLTAGE	AIC	MOUNTING	PBA	NOTES AND REMARKS
4LL2	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL2 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4LL3	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL3 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4LL4	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Top Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL4 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4LL5	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Flush with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4LL5 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4NH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553T	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4NH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4NL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,SPD Model BIA,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4NL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
4SH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	553T	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: 4SH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on
BNH1	NF	480Y/277V 3Ph 4W 60Hz	22kA	Bottom Trim: Surface with Door	554	Ship Together,Blank Endwalls,Copper Solid Neutral,Seismic Qualification - IBC/ASCE7,Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: BNH1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PANELBOARDS

THIS SECTION CONTAINS DETAILED DRAWINGS ON THE FOLLOWING PANELS:

DESIGNATION	TYPE	VOLTAGE	AIC	MOUNTING	PBA	NOTES AND REMARKS
BNL1	NQ	208Y/120V 3Ph 4W 60Hz	10kA	Bottom Trim: Surface with Door	707A	Ship Together, Blank Endwalls, Copper Solid Neutral, Seismic Qualification - IBC/ASCE7, Copper Ground Bar Standard Nameplate: Engraved as Follows Line 1: BNL1 Size: 3.50" Wide x 1.00" High (Std) Color: White Surface / Black Letters Plastic/Adhesive - Screw-on

PLEASE CONFIRM THAT THE PANEL DETAILS MATCHES THE PLANS AND SPECIFICATIONS.

ALL LUGS ON PANELBOARDS AND CIRCUIT BREAKERS ARE RATED AT 75 DEGR C.

ALL LUGS ARE SIZED PER UL STANDARDS. PLEASE CONFIRM THAT THEY ARE APPROPRIATE FOR THE QUANTITY AND SIZE OF THE CABLE BEING CONNECTED.

PLEASE CONFIRM TOP OR BOTTOM FEED, AND SURFACE OR FLUSH COVERS.

PANEL INFORMATION IS FOR ENGINEERING APPROVAL ONLY.
DO NOT USE FOR CONSTRUCTION PURPOSES.

DIMENSIONS ARE SUBJECT TO CHANGE PRIOR TO FINAL ENGINEERING FOR PRODUCTION

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

1100 Clark Ave
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



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