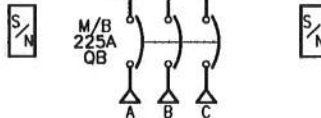


| REV | DESCRIPTION | BY  | DATE |     |     |     |     |     |     |
|-----|-------------|-----|------|-----|-----|-----|-----|-----|-----|
| --- | ---         | --- | ---  | --- | --- | --- | --- | --- | --- |

| CKT NO | ACCESSORIES | TYPE | RATING AMP/P | FTL | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|-------------|------|--------------|-----|--------------|------|-------------|--------|
| 1      |             | QOB  | 20/1         |     | 30/1         | QOB  |             | 2      |
| 3      |             | QOB  | 20/1         |     | 20/1         | QOB  |             | 4      |
| 5      |             | QOB  | 20/1         |     | 20/1         | QOB  |             | 6      |
| 7      |             | QOB  | 20/1         |     | 20/1         | QOB  |             | 8      |
| 9      |             | QOB  | 20/1         |     | 20/1         | QOB  |             | 10     |
| 11     |             | QOB  | 20/1         |     | 30/2         | QOB  |             | 12     |
| 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     | 15A-1P      | QOB  | 20/1         |     | 20/1         | QOB  |             | 52     |
| 53     | 15A-1P      | QOB  | 20/1         |     | 20/1         | QOB  |             | 54     |
| 55     |             | QOB  | 20/1         |     | 20/1         | QOB  |             | 56     |
| 57     |             | QOB  | 20/1         |     | 20/1         | QOB  |             | 58     |
| 59     | 20A-1P      | QOB  | 15/1         |     | 15/1         | QOB  | 20A-1P      | 60     |
| 61     |             |      |              |     |              |      |             | 62     |
| 63     |             |      |              |     |              |      |             | 64     |
| 65     |             |      |              |     |              |      |             | 66     |
| 67     |             |      |              |     |              |      |             | 68     |
| 69     |             |      |              |     |              |      |             | 70     |
| 71     | BLANK       |      |              |     |              |      | BLANK       | 72     |



### PHYSICAL DATA

#### ENCLOSURE Type 1

Surface with Door  
 FRONT CAT#: NC62S  
 BOX CAT#: MH62BE  
 DIMENSIONS:  
 62"H x 20"W x 5.75"D  
 WIRE BENDING SPACE:  
 TOP - 8.7  
 BOTTOM - 10.47  
 SIDE - 6.13  
 PBA: 707A  
 BUSSING: Copper  
 Silver/Tin Plated  
 OPTIONAL FEATURES:  
 SEISMICALLY QUALIFIED : IBC/ASCE7  
 SHIP TOGETHER  
 BRANCH USER PLACEMENT  
 (Continued on next page.)

### ELECTRICAL DATA

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

System Ampacity: 225A

10kA SYMS. SCCR

MAIN: MAIN BREAKER QOB 225A

ACC FEED THRU LUGS

Bottom FEED

10kA AIR

INCOMING CONDUCTORS(S) PER NEC

Wire Bending Space:

#4 - 300 kcmil

BRANCH MOUNTING TYPE: BOLT-ON

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

55 - 20A/1P QOB

2 - 15A/1P QOB

1 - 30A/1P QOB

1 - 30A/2P QOB

VERIFY W/ ELEC CONTRACTOR

|                 |                        |                        |                                        |
|-----------------|------------------------|------------------------|----------------------------------------|
| JOB NAME:       | WEBSTER UNIVERSITY ISB | EQUIPMENT DESIGNATION: | 1NL1                                   |
| 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                           |



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

# PHYSICAL DATA CONTINUED

Copper GROUND BAR

BLANK ENDWALLS

COPPER SOLID NEUTRAL

-----STANDARD EQUIPMENT NAMEPLATE-----

Engraved as Follows

LINE 1: 1NL1

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:                                                                | 1NL1                                   |
| 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         | by Schneider Electric                                                                 |                                        |
| 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    | <b>Designation:</b> BNH1<br>NF MB PNLB (INT,BOX,TRIM)<br>NF Panelboard<br>Consisting of<br>480Y/277V 3Ph 4W 60Hz SCCR: 22kA<br>Fully Rated<br>Single Main: 400A/3P LA Circuit Breaker<br>Incoming Conductors: 1 - #1 - 600,(2)#1 - 250<br>kcmil<br>Bus: Copper: Silver/Tin Plated<br>CU Ground Bar<br>42 Circuit Interior<br>Type 1,Box: 86H x 20W x 5.75D<br>Incoming: Bottom Trim: Surface with Door<br>Box Cat No: MH86BE Front Cat No: NC86VS<br>Ref. Drawing: PBA554<br><b>Feeders:</b><br>2 - Sub-Feed Circuit Breakers: 200A/3P JG<br>3 - 15A/3P EGB<br>2 - 70A/3P EGB<br>2 - 45A/3P EGB<br>18 - 20A/1P EGB Prepared Space<br>3 - 20A/1P EGB<br><b>Optional Features:</b><br>Ship Together,Blank Endwalls,Copper Solid<br>Neutral,Seismic Qualification -<br>IBC/ASCE7,Copper Ground Bar<br>Branch User Placement<br><b>Standard Nameplate:</b><br>Engraved as Follows<br>Line 1: BNH1<br>Size: 3.50" Wide x 1.00" High (Std)<br>Color: White Surface / Black Letters<br>Plastic/Adhesive - Screw-on |
| 011-00   | 1    | <b>Designation:</b> 1NH1<br>NF MB PNLB (INT,BOX,TRIM)<br>NF Panelboard<br>Consisting of<br>480Y/277V 3Ph 4W 60Hz SCCR: 22kA<br>Fully Rated<br>Single Main: 175A/3P JG Circuit Breaker<br>Main Acc: Feed Thru Lugs<br>Incoming Conductors: 1 - #4 - 4/0 AWG<br>Bus: Copper: Silver/Tin Plated<br>CU Ground Bar<br>42 Circuit Interior<br>Type 1,Box: 68H x 20W x 5.75D<br>Incoming: Bottom Trim: Surface with Door<br>Box Cat No: MH68BE Front Cat No: NC68S<br>Ref. Drawing: PBA553<br><b>Feeders:</b><br>30 - 20A/1P EGB<br>12 - 20A/1P EGB Prepared Space<br><b>Optional Features:</b><br>Ship Together,Blank Endwalls,Copper Solid<br>Neutral,Seismic Qualification -<br>IBC/ASCE7,Copper Ground Bar<br><b>Standard Nameplate:</b><br>Engraved as Follows<br>Line 1: 1NH1<br>Size: 3.50" Wide x 1.00" High (Std)                                                                                                                                                                                         |

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

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

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

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

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

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

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Project Name: WEBSTER UNIVERSITY ISB

Quote Name: PANEL USER PLACEMENT

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

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

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

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

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

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

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

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

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| Item No. | Qty. | Catalog Number / Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | Ref. Drawing: PBA707A<br>Feeders:<br>42 - 20A/1P QOB<br>Optional Features:<br>Ship Together,Blank Endwalls,Copper Solid<br>Neutral,Seismic Qualification -<br>IBC/ASCE7,SPD Model BIA,Copper Ground<br>Bar<br>Standard Nameplate:<br>Engraved as Follows<br>Line 1: 4LL2<br>Size: 3.50" Wide x 1.00" High (Std)<br>Color: White Surface / Black Letters<br>Plastic/Adhesive - Screw-on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 038-00   | 1    | <b>Designation: 4LL4</b><br>NQ MB PNLB (INT,BOX,TRIM)<br>NQ Panelboard<br>Consisting of<br>208Y/120V 3Ph 4W 60Hz SCCR: 10kA<br>Fully Rated<br>SPD 100kA per Phase/50kA per Mode<br>SPD line to grd protect<br>w/SPD Surge Counter<br>w/SPD Dry Contacts<br>Single Main: 225A/3P QB Circuit Breaker<br>Incoming Conductors: 1 - #4 - 300 kcmil<br>Bus: Copper: Silver/Tin Plated<br>CU Ground Bar<br>54 Circuit Interior<br>Type 1,Box: 50H x 20W x 5.75D<br>Incoming: Top Trim: Flush with Door<br>Box Cat No: MH50BE Front Cat No: NC50F<br>Ref. Drawing: PBA707A<br>Feeders:<br>42 - 20A/1P QOB<br>Optional Features:<br>Ship Together,Blank Endwalls,Copper Solid<br>Neutral,Seismic Qualification -<br>IBC/ASCE7,SPD Model BIA,Copper Ground<br>Bar<br>Standard Nameplate:<br>Engraved as Follows<br>Line 1: 4LL4<br>Size: 3.50" Wide x 1.00" High (Std)<br>Color: White Surface / Black Letters<br>Plastic/Adhesive - Screw-on |
| 039-00   | 1    | <b>Designation: 4LL5</b><br>NQ MB PNLB (INT,BOX,TRIM)<br>NQ Panelboard<br>Consisting of<br>208Y/120V 3Ph 4W 60Hz SCCR: 10kA<br>Fully Rated<br>SPD 100kA per Phase/50kA per Mode<br>SPD line to grd protect<br>w/SPD Surge Counter<br>w/SPD Dry Contacts<br>Single Main: 225A/3P QB Circuit Breaker<br>Incoming Conductors: 1 - #4 - 300 kcmil<br>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<br>54 Circuit Interior<br>Type 1,Box: 50H x 20W x 5.75D<br>Incoming: Bottom Trim: Flush with Door<br>Box Cat No: MH50BE Front Cat No: NC50F<br>Ref. Drawing: PBA707A<br>Feeders:<br>42 - 20A/1P QOB<br>Optional Features:<br>Ship Together,Blank Endwalls,Copper Solid<br>Neutral,Seismic Qualification -<br>IBC/ASCE7,SPD Model BIA,Copper Ground<br>Bar<br>Standard Nameplate:<br>Engraved as Follows<br>Line 1: 4LL5<br>Size: 3.50" Wide x 1.00" High (Std)<br>Color: White Surface / Black Letters<br>Plastic/Adhesive - Screw-on                                                                                                                                                                                                                                                                                                                                                                                      |
| 040-00   | 1    | <b>Designation:</b> 2LL5<br>NQ MB PNLB (INT,BOX,TRIM)<br>NQ Panelboard<br>Consisting of<br>208Y/120V 3Ph 4W 60Hz SCCR: 10kA<br>Fully Rated<br>SPD 100kA per Phase/50kA per Mode<br>SPD line to grd protect<br>w/SPD Surge Counter<br>w/SPD Dry Contacts<br>Single Main: 225A/3P QB Circuit Breaker<br>Incoming Conductors: 1 - #4 - 300 kcmil<br>Bus: Copper: Silver/Tin Plated<br>CU Ground Bar<br>54 Circuit Interior<br>Type 1,Box: 50H x 20W x 5.75D<br>Incoming: Bottom Trim: Surface with Door<br>Box Cat No: MH50BE Front Cat No: NC50S<br>Ref. Drawing: PBA707A<br>Feeders:<br>42 - 20A/1P QOB<br>Optional Features:<br>Ship Together,Blank Endwalls,Copper Solid<br>Neutral,Seismic Qualification -<br>IBC/ASCE7,SPD Model BIA,Copper Ground<br>Bar<br>Standard Nameplate:<br>Engraved as Follows<br>Line 1: 2LL5<br>Size: 3.50" Wide x 1.00" High (Std)<br>Color: White Surface / Black Letters<br>Plastic/Adhesive - Screw-on |
| 041-00   | 1    | <b>Designation:</b> 1SL2<br>NQ MB PNLB (INT,BOX,TRIM)<br>NQ Panelboard<br>Consisting of<br>208Y/120V 3Ph 4W 60Hz SCCR: 10kA<br>Fully Rated<br>Single Main: 150A/3P QB Circuit Breaker<br>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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          |      | <p>Incoming Conductors: 1 - #4 - 300 kcmil</p> <p>Bus: Copper: Silver/Tin Plated</p> <p>CU Ground Bar</p> <p>30 Circuit Interior</p> <p>Type 1,Box: 50H x 20W x 5.75D</p> <p>Incoming: Top Trim: Surface with Door</p> <p>Box Cat No: MH50BE Front Cat No: NC50S</p> <p>Ref. Drawing: PBA707A</p> <p>Feeders:</p> <p>2 - 20A/2P QOB</p> <p>26 - 20A/1P QOB</p> <p>Optional Features:</p> <p>Ship Together,Blank Endwalls,Copper Solid</p> <p>Neutral,Seismic Qualification -</p> <p>IBC/ASCE7,Copper Ground Bar</p> <p>Standard Nameplate:</p> <p>Engraved as Follows</p> <p>Line 1: 1SL2</p> <p>Size: 3.50" Wide x 1.00" High (Std)</p> <p>Color: White Surface / Black Letters</p> <p>Plastic/Adhesive - Screw-on</p> |

## Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: September 7, 2016

Attention: [stl-cac@cannondesign.com](mailto: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) ( <del>R&amp;B CxSRC</del> )                       |
|        |            | (Cannon #264000-003) - (Paric #15051-0197) - ( <del>WES #607</del> ) |
|        |            | • <b>Panel Schedule - Resubmittal</b>                                |

### **\*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](mailto: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**

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

In response to note on returned 264000-001  
Electrical Distribution.

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

**CONTRACTOR / CM CERTIFICATION**  
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)



THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC

Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.

## Met

Devlin D. Gates

082216

REVIEWED BY

DATE \_\_\_\_\_

REVIEWED BY

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:                                             |
|--------------------------------------------|----------------------------------------------|-----------------------------------------------------------|
| <input type="checkbox"/> Shop Drawings     | <input checked="" type="checkbox"/> Approval | <input checked="" type="checkbox"/> Approved as Submitted |
| <input type="checkbox"/> Letter            | <input type="checkbox"/> Your Use            | <input type="checkbox"/> Approved as Noted                |
| <input type="checkbox"/> Prints            | <input type="checkbox"/> As Requested        | <input type="checkbox"/> Returned After Loan              |
| <input type="checkbox"/> Change Order      | <input type="checkbox"/> Review and Comment  | <input type="checkbox"/> Resubmit                         |
| <input type="checkbox"/> Plans             |                                              | <input type="checkbox"/> Submit                           |
| <input type="checkbox"/> Samples           | <b>SENT VIA:</b>                             | <input type="checkbox"/> Returned                         |
| <input type="checkbox"/> Specifications    | <input type="checkbox"/> Attached            | <input type="checkbox"/> Returned for Corrections         |
| <input checked="" type="checkbox"/> Other: | <input type="checkbox"/> Separate Cover Via: | <input type="checkbox"/> 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

—

—

—

—

—

—

*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 | FTL | RATING AMP/P | TYPE | ACCESSORIES | CKT NO |
|--------|-------------|------|--------------|-----|--------------|------|-------------|--------|
| 1      |             | QOB  | 30/2         | ○   | 30/1         | QOB  |             | 2      |
| 3      |             | QOB  | 20/1         | ○   | 20/1         | QOB  |             | 4      |
| 5      |             | QOB  | 20/1         | ○   | 20/1         | QOB  |             | 6      |
| 7      |             | QOB  | 20/1         | ○   | 20/1         | QOB  |             | 8      |
| 9      |             | QOB  | 20/1         | ○   | 20/1         | QOB  |             | 10     |
| 11     |             | QOB  | 20/1         | ○   | 20/1         | QOB  |             | 12     |
| 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     |
| 55     |             | QOB  | 20/1         | ○   | 20/1         | QOB  |             | 56     |
| 57     |             | QOB  | 20/1         | ○   | 20/1         | QOB  |             | 58     |
| 59     |             | QOB  | 15/1         | ○   | 15/1         | QOB  |             | 60     |
| 61     |             |      |              | ○   |              |      |             | 62     |
| 63     |             |      |              | ○   |              |      |             | 64     |
| 65     |             |      |              | ○   |              |      |             | 66     |
| 67     |             |      |              | ○   |              |      |             | 68     |
| 69     |             |      |              | ○   |              |      |             | 70     |
| 71     | BLANK       |      |              | ○   |              |      | BLANK       | 72     |

PHYSICAL DATA

ENCLOSURE Type 1  
Surface with Door  
FRONT CAT#: NC62S  
BOX CAT#: MH62BE  
DIMENSIONS:  
62"H x 20"W x 5.75"D  
WIRE BENDING SPACE:  
TOP - 8.7  
BOTTOM - 10.47  
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  
ACC: FEED THRU LUGS  
Bottom FEED  
10kA AIR  
INCOMING CONDUCTORS(S) PER NEC  
Wire Bending Space:  
#4 - 300 kcmil  
BRANCH MOUNTING TYPE: BOLT-ON  
-----BRANCH SUMMATION-----  
1 - 30A/2P QOB                      55 - 20A/1P QOB  
2 - 15A/1P QOB                      1 - 30A/1P QOB

|                 |                        |                        |                                         |
|-----------------|------------------------|------------------------|-----------------------------------------|
| JOB NAME:       | WEBSTER UNIVERSITY ISB | EQUIPMENT DESIGNATION: | 1NL1                                    |
| 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 1 OF 2 REV -                         |

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

PHYSICAL DATA CONTINUED

BLANK ENDWALLS  
COPPER SOLID NEUTRAL  
-----STANDARD EQUIPMENT NAMEPLATE-----  
Engraved as Follows  
LINE 1: 1NL1  
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:                                                                | 1NL1                                    |
| 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<br>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](mailto: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](mailto: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](http://cannondesign.com)

## SUBMITTAL IDENTIFICATION SHEET

**To be completed by Contractor/CM**

|                               |                                   |
|-------------------------------|-----------------------------------|
| PROJECT NAME                  |                                   |
| <input type="text"/>          |                                   |
| ADDRESS                       |                                   |
| <input type="text"/>          |                                   |
| NUMBER                        |                                   |
| <input type="text"/>          |                                   |
| OWNER                         |                                   |
| <input type="text"/>          |                                   |
| ARCHITECT / ENGINEER          |                                   |
| <input type="text"/>          |                                   |
| SUBMITTED BY                  |                                   |
| <input type="text"/>          | <input type="text"/>              |
| CONTRACTOR / CM SUBMITTAL NO. | CANNON DESIGN SUBMITTAL NO.       |
| <input type="text"/>          | <input type="text"/>              |
| DRAWING / DETAIL REFERENCE    | SPECIFICATION SECTION / PARAGRAPH |
| <input type="text"/>          | <input type="text"/>              |
| MANUFACTURER / SUPPLIER       | ITEM / PRODUCT ID                 |
| <input type="text"/>          | <input type="text"/>              |
| REQUIRED DATE                 | PRIORITY                          |
| <input type="text"/>          | <input type="text"/>              |
| CRITICALITY                   |                                   |
| <input type="text"/>          |                                   |

**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.

## ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings      ☐ Certification / Qualifications      ☐ Coordination Drawing  
☐ Samples      ☐ Record Documents      ☐ Calculations  
 ( \_\_\_\_\_ copies)      ☐ Product Data      ☐ Schedules  
☐ LEED Submittal      ☐ 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 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.

Ry:

By:  
**Devin D. Gates**

|             |      |
|-------------|------|
|             |      |
| REVIEWED BY | DATE |

## A/E COMMENTS

- ☐
- See attached sheet(s) for additional comments

|             |      |
|-------------|------|
|             |      |
| REVIEWED BY | DATE |



77 Westport Plaza  
Suite 250  
St. Louis, MO 63146

**TRANSMITTAL**

**No. 15051-0114**

*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:                                     |
|---------------------------------------------------------|----------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Shop Drawings                  | <input checked="" type="checkbox"/> Approval | <input type="checkbox"/> Approved as Submitted    |
| <input type="checkbox"/> Letter                         | <input type="checkbox"/> Your Use            | <input type="checkbox"/> Approved as Noted        |
| <input type="checkbox"/> Prints                         | <input type="checkbox"/> As Requested        | <input type="checkbox"/> Returned After Loan      |
| <input type="checkbox"/> Change Order                   | <input type="checkbox"/> Review and Comment  | <input type="checkbox"/> Resubmit                 |
| <input type="checkbox"/> Plans                          |                                              | <input type="checkbox"/> Submit                   |
| <input type="checkbox"/> Samples                        | SENT VIA:                                    | <input type="checkbox"/> Returned                 |
| <input type="checkbox"/> Specifications                 | <input type="checkbox"/> Attached            | <input type="checkbox"/> Returned for Corrections |
| <input checked="" type="checkbox"/> Other: Product Data | <input type="checkbox"/> Separate Cover Via: | <input type="checkbox"/> 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](mailto: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

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*POWER-DRY II TRANSFORMER: US-1*

*SWITCHBOARD: US-1*

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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

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SB2

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1EL1

1SH1 - 1SL1

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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

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D211N

H365

HU361

H361

HU362

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### ***BILL OF MATERIALS***

### ***LITERATURE***

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## **FUSE**

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### ***LITERATURE***

LPJ Fuses 1 - 60 Amps

LPJ Fuses 70 - 600 Amps