DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

# APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)	OFFICE USE ONLY
	APPLICATION #: OSP-0094

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Schneider Electric

Manufacturer's Technical Representative: Scott Littler

Mailing Address: 6700 Tower Circle, Suite 700, Franklin, TN 37067

Telephone: (615) 267-9407 Email: scott.littler@se.com

Product Information

Product Name: Electrical Busways

Product Type: NA

Product Model Number: Square D I-Line II Busway Systems

General Description: Low voltage busway systems and plug-in units in sheet metal framed enclosures, which include fusibles, circuit breakers, ground detectors/neutralizers and combinations (see Certified Major Sub-Component tables). Sheet metal framed enclosures come in Indoor, Outdoor, & IP54 rating.

Mounting Description: Horizontal rigidly suspended with rigid braces: 10' OC Max for Indoor & IP54, and 5' OC Max Outdoor, Vertical floor-mounted: Indoor spring-isolated at 14' OC Max, Outdoor rigid mounted at 10' OC Max

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates

Contact Person: Daniel Zentner

Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702

Telephone: (541) 292-5839 Email: dzentner@structint.com

Title: Program Manager

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: Andrew Coughlin California License Number: S6082

Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025

Telephone: (415) 635-8461 Email: acoughlin@structint.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3

☐ Other (Please Specify):

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513

Telephone: (972) 247-9657 Email: Jeremy@etldallas.com

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)

Contact Person: Robert Bridges

Mailing Address: 7800 Highway 20 West, Huntsville, AL 35806

Telephone: (256) 837-4411 Email: Robert.Bridges@nts.com

Company Name: UNIVERSITY OF BUFFALO (SEESL)

Contact Person: Mark Pitman

Mailing Address: 212 Ketter Hall, Buffalo, NY 14260

Telephone: (716) 645-4377 Email: mpitman@buffalo.edu

Company Name: WYLE LABORATIORIES

Contact Person: Don Smith

Mailing Address: 7800 Highway 20 West, Huntsville, AL 35806

Telephone: (256) 837-4411 Email: Don.Smith@wyle.com

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) =	1.15 (SDS=1.60, z/h=1, rigid), 0.81 (SDS=1.79, z/h=0, rigid), 3.60 (SDS=1.60, z/h=1, spring mounted), 1.34 (SDS=1.79, z/h=0, spring mounted)
S_{DS} (Design spectral response acceleration at short period, g) =	1.60 (z/h=1), 1.79 (z/h=0)
a_p (Amplification factor) =	1.0 (Rigid), 2.5 (Spring Mounted)
R_p (Response modification factor) =	2.5 (Rigid), 2.0 (Spring Mounted)
Ω_0 (System overstrength factor) =	2.0
I_p (Importance factor) =	1.5
z/h (Height ratio factor) =	1 and 0
Natural frequencies (Hz) =	See Attachment
Overall dimensions and weight =	See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 03/01/2029

Date: 03/01/2023

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable): Cable braces are not allowed.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway (Indoor)

TABLE 1.1

Certified Product Construction Summary:
Carbon steel and aluminum sheet metal framed busway

Certified Options Summary:
Feeder style: Available from 16" to 120" lengths.
Plug-in Style: Available in 4, 6, 8, and 10 foot lengths.

Mounting Configuration:
Horizontal Runs - 10 Ft. Hanger Spacing
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS}= ***1.60 g*** ***z/h = 1.0*** S_{DS}= ***1.79 g*** ***z/h = 0.0*** I_P= ***1.5***

Model Line	Model	Dimensions (in)			Weight/ ft. (lb.) [1]	Notes	UUT
		Depth	Width	Height			
I-Line II Busway (Copper Bus)	CF2508G10ST	120.0	3.8	5.9	17		16
	C*08*ST*		3.8	5.9	17		Interp.
	C*10*ST*		4.3	5.9	20		Interp.
	C*12*ST*		5.3	5.9	23		Interp.
	C*13*ST*		5.8	5.9	25		Interp.
	C*16*ST*		6.7	5.9	30		Interp.
	C*20*ST*		7.8	5.9	33		Interp.
	C*25*ST*		12.7	5.9	46		Interp.
	C*30*ST*		15.2	5.9	50		Interp.
	C*32*ST*		16.2	5.9	55		Interp.
	C*40*ST*		23.6	5.9	77		Interp.
	C*50*ST*		25.1	5.9	103		Interp.
	CF2550G4ST	48.0	25.1	5.9	98		2,3,4,6,13
	CP2550G6ST	72.0	25.1	5.9	103		2,3,4,6,13
	CP2550G10ST	120.0	25.1	5.9	95		14

Notes:
1. Catalog nominal weights/length are estimates intended for planning handling and support design. Weight/length varies by up to 10% by busway type - Indoor Plugin, Indoor Feeder, Outdoor Feeder. Maximum weights are shown in this table.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1700818

TABLE 1.1

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway (Indoor)

Certified Product Construction Summary:
Carbon steel and aluminum sheet metal framed busway

Certified Options Summary:
Feeder style: Available from 16" to 120" lengths.
Plug-in Style: Available in 4, 6, 8, and 10 foot lengths.

Mounting Configuration:
Horizontal Runs - 10 Ft. Hanger Spacing
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS}= *1.60 g* *z/h = 1.0* S_{DS}= *1.79 g* *z/h = 0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight/ ft. (lb.) [1]	Notes	UUT
		Depth	Width	Height			
I-Line II Busway (Aluminum Bus)	A*08*ST*		4.3	5.9	12		Interp.
	A*10*ST*		5.3	5.9	13		Interp.
	A*12*ST*		6.3	5.9	15		Interp.
	A*13*ST*		7.3	5.9	16		Interp.
	A*16*ST*		8.8	5.9	18		Interp.
	A*20*ST*		12.7	5.9	25		Interp.
	A*25*ST*		16.2	5.9	30		Interp.
	A*30*ST*		18.7	5.9	34		Interp.
	A*40*ST*		25.6	5.9	49		Interp.
	AF2540G4ST	48.0	25.6	5.9	47		7,8,9, 10,12,19
	AP2540G6ST	72.0	25.6	5.9	49		7,8,9,10,12
	AP2540G10ST	120.0	25.6	5.9	48		19

Notes:
1. Catalog nominal weights/length are estimates intended for planning handling and support design. Weight/length varies by up to 10% by busway type - Indoor Plugin, Indoor Feeder, Outdoor Feeder. Maximum weights are shown in this table.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway (Outdoor)

TABLE 1.2

Certified Product Construction Summary:
Carbon steel and aluminum sheet metal framed busway (UL 857 Outdoor Rated)

Certified Options Summary:
Available from 16" to 120" lengths.

Mounting Configuration:
Horizontal Runs - 5 Ft. Hanger Spacing
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS}= *1.60 g* *z/h = 1.0* I_P= *1.5*
S_{DS}= *1.79 g* *z/h = 0.0*

Model Line	Model	Dimensions (in)			Weight/ ft. (lb.) [1]	Notes	UUT
		Depth	Width	Height			
Outdoor I-Line II Busway (Copper Bus)	COF*08*ST*		3.8	5.9	17		Interp.
	COF*10*ST*		4.3	5.9	20		Interp.
	COF*12*ST*		5.3	5.9	23		Interp.
	COF*13*ST*		5.8	5.9	25		Interp.
	COF*16*ST*		6.7	5.9	30		Interp.
	COF*20*ST*		7.8	5.9	33		Interp.
	COF2520G30ST	30.0	7.8	5.9	33		21, 22
	COF2520G45ST	45.0	7.8	5.9	33		21, 22
	COF2520G10ST	120.0	7.8	5.9	33		21, 22
	COF*25*ST*		12.7	5.9	46		Interp.
	COF*30*ST*		15.2	5.9	50		Interp.
	COF*32*ST*		16.2	5.9	55		Interp.
	COF*40*ST*		23.6	5.9	77		Interp.
	COF*50*ST*		25.1	5.9	95		Interp.
	COF2550G30ST	30.0	25.1	5.9	95		20, 23
	COF2550G45ST	45.0	25.1	5.9	95		20, 23
	COF2550G10ST	120.0	25.1	5.9	95		20, 23

Notes:
1. Catalog nominal weights/length are estimates intended for planning handling and support design. Weight/length varies by up to 10% by busway type - Indoor Plugin, Indoor Feeder, Outdoor Feeder. Maximum weights are shown in this table.

SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway (Indoor)

TABLE 1.3

Certified Product Construction Summary:
Carbon steel and aluminum sheet metal framed busway

Certified Options Summary:
Feeder style: Available from 16" to 120" lengths.
Plug-in Style: Available in 4, 6, 8, and 10 foot lengths.

Mounting Configuration:
Vertical Runs - 14 Ft. Max Spring Mount Spacing
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS}= ***1.60 g*** ***z/h = 1.0*** I_P= ***1.5***
S_{DS}= ***1.79 g*** ***z/h = 0.0***

Model Line	Model	Dimensions (in)			Weight/ ft. (lb.) [1]	Notes	UUT
		Depth	Width	Height			
I-Line II Busway (Copper Bus)	C*08*ST*		3.8	5.9	17		Interp.
	C*10*ST*		4.3	5.9	20		Interp.
	C*12*ST*		5.3	5.9	23		Interp.
	C*13*ST*		5.8	5.9	25		Interp.
	C*16*ST*		6.7	5.9	30		Interp.
	C*20*ST*		7.8	5.9	33		Interp.
	C*25*ST*		12.7	5.9	46		Interp.
	C*30*ST*		15.2	5.9	50		Interp.
	C*32*ST*		16.2	5.9	55		Interp.
	C*40*ST*		23.6	5.9	77		Interp.
	C*50*ST*		25.1	5.9	99		Interp.
	CF2550G4ST	48.0	25.1	5.9	98		2,3,4,6
	CP2550G10ST	120.0	25.1	5.9	99		2-4,6,18

Notes:
1. Catalog nominal weights/length are estimates intended for planning handling and support design. Weight/length varies by up to 10% by busway type - Indoor Plugin, Indoor Feeder, Outdoor Feeder. Maximum weights are shown in this table.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway (Indoor)

TABLE 1.3

Certified Product Construction Summary:
Carbon steel and aluminum sheet metal framed busway

Certified Options Summary:
Feeder style: Available from 16" to 120" lengths.
Plug-in Style: Available in 4, 6, 8, and 10 foot lengths.

Mounting Configuration:
Vertical Runs - 14 Ft. Max Spring Mount Spacing
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS}= ***1.60 g*** ***z/h = 1.0*** S_{DS}= ***1.79 g*** ***z/h = 0.0*** I_P= ***1.5***

Model Line	Model	Dimensions (in)			Weight/ ft. (lb.) [1]	Notes	UUT
		Depth	Width	Height			
I-Line II Busway (Aluminum Bus)	A*08*ST*		4.3	5.9	12		Interp.
	A*10*ST*		5.3	5.9	13		Interp.
	A*12*ST*		6.3	5.9	15		Interp.
	A*13*ST*		7.3	5.9	16		Interp.
	A*16*ST*		8.8	5.9	18		Interp.
	A*20*ST*		12.7	5.9	25		Interp.
	A*25*ST*		16.2	5.9	30		Interp.
	A*30*ST*		18.7	5.9	34		Interp.
	A*40*ST*		25.6	5.9	47		Interp.
	AF2540G4ST	48.0	25.6	5.9	47		7,8,9,10
	AP2540G6ST	72.0	25.6	5.9	47		10
	AP2540G10ST	120.0	25.6	5.9	47		7,8,9,10,17

Notes:
1. Catalog nominal weights/length are estimates intended for planning handling and support design. Weight/length varies by up to 10% by busway type - Indoor Plugin, Indoor Feeder, Outdoor Feeder. Maximum weights are shown in this table.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 1700818

TABLE 1.4

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway (Outdoor)

Certified Product Construction Summary:
Carbon steel and aluminum sheet metal framed busway (UL 857 Outdoor Rated)

Certified Options Summary:
Available from 16" to 120" lengths.

Mounting Configuration:
Vertical Runs - 10 Ft. Max Fixed Mount Spacing
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS}= *1.60 g* *z/h = 1.0* I_P= *1.5*
S_{DS}= *1.79 g* *z/h = 0.0*

Model Line	Model	Dimensions (in)			Weight/ ft. (lb.) [1]	Notes	UUT
		Depth	Width	Height			
Outdoor I-Line II Busway (Copper Bus)	COF*08*ST*		3.8	5.9	17		Interp.
	COF*10*ST*		4.3	5.9	20		Interp.
	COF*12*ST*		5.3	5.9	23		Interp.
	COF*13*ST*		5.8	5.9	25		Interp.
	COF*16*ST*		6.7	5.9	30		Interp.
	COF*20*ST*		7.8	5.9	33		Interp.
	COF2520G3ST	36.0	7.8	5.9	33		25
	COF2520G4ST	48.0	7.8	5.9	33		25
	COF2520G10ST	120.0	7.8	5.9	33		25
	COF*25*ST*		12.7	5.9	46		Interp.
	COF*30*ST*		15.2	5.9	50		Interp.
	COF*32*ST*		16.2	5.9	55		Interp.
	COF*40*ST*		23.6	5.9	77		Interp.
	COF*50*ST*		25.1	5.9	95		Interp.
	COF2550G3ST	36.0	25.1	5.9	95		24
	COF2550G4ST	45.0	25.1	5.9	95		24
	COF2550G10ST	120.0	25.1	5.9	95		24

Notes:
1. Catalog nominal weights/length are estimates intended for planning handling and support design. Weight/length varies by up to 10% by busway type - Indoor Plugin, Indoor Feeder, Outdoor Feeder. Maximum weights are shown in this table.

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: Elbows

TABLE 2

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= *1.60 g* *z/h = 1.0*; S_{DS}= *1.79 g* *z/h = 0.0* I_P = *1.5*

Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT
		Depth	Width	Height				
Flat Elbow-Aluminum (Schneider Electric)	A*08*LF*		4.3	5.9	72	Aluminum		Interp.
	A*10*LF*		5.3	5.9	78	Aluminum		Interp.
	A*12*LF*		6.3	5.9	90	Aluminum		Interp.
	A*13*LF*		7.3	5.9	97	Aluminum		Interp.
	A*16*LF*		8.8	5.9	112	Aluminum		Interp.
	A*20*LF*		12.7	5.9	150	Aluminum		Interp.
	A*25*LF*		16.2	5.9	180	Aluminum		Interp.
	A*30*LF*		18.7	5.9	204	Aluminum		Interp.
	A*40*LF*		25.6	5.9	247	Aluminum	*UUTs: AF2540G60LFS30B30*	7,8,9,10
Flat Elbow - Copper (Schneider Electric)	C*08*LF*		3.8	5.9	106	Copper	*UUT: CF2508GLFM11*	16
	C*10*LF*		4.3	5.9	119	Copper		Interp.
	C*12*LF*		5.3	5.9	145	Copper		Interp.
	C*13*LF*		5.8	5.9	158	Copper		Interp.
	C*16*LF*		6.7	5.9	182	Copper		Interp.
	C*20*LF*		7.8	5.9	210	Copper		Interp.
	C*25*LF*		12.7	5.9	289	Copper		Interp.
	C*30*LF*		15.2	5.9	318	Copper		Interp.
	C*32*LF*		16.2	5.9	369	Copper		Interp.
	C*40*LF*		23.6	5.9	462	Copper		Interp.
	C*50*LF*		25.1	5.9	534	Copper	*UUTs: CF2550G60LFS30B30*	2,3,4,6,14

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

TABLE 2

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: Elbows

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= *1.60 g* *z/h = 1.0* S_{DS}= *1.79 g* *z/h = 0.0* I_P = *1.5*

Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT
		Depth	Width	Height				
Edge Elbow-Aluminum (Schneider Electric)	A*08*LE*		4.3	5.9	72	Aluminum		Interp.
	A*10*LE*		5.3	5.9	78	Aluminum		Interp.
	A*12*LE*		6.3	5.9	90	Aluminum		Interp.
	A*13*LE*		7.3	5.9	96	Aluminum		Interp.
	A*16*LE*		8.8	5.9	109	Aluminum		Interp.
	A*20*LE*		12.7	5.9	150	Aluminum		Interp.
	A*25*LE*		16.2	5.9	180	Aluminum		Interp.
	A*30*LE*		18.7	5.9	204	Aluminum		Interp.
	A*40*LE*		25.6	5.9	249	Aluminum	*UUTs: AF2540G60LES30B30*	7,8,9,10,12
Edge Elbow - Copper (Schneider Electric)	C*08*LE*		3.8	5.9	102	Copper	*UUT: CF2508GLEM11*	16
	C*10*LE*		4.3	5.9	117	Copper		Interp.
	C*12*LE*		5.3	5.9	138	Copper		Interp.
	C*13*LE*		5.8	5.9	152	Copper		Interp.
	C*16*LE*		6.7	5.9	180	Copper		Interp.
	C*20*LE*		7.8	5.9	203	Copper		Interp.
	C*25*LE*		12.7	5.9	276	Copper		Interp.
	C*30*LE*		15.2	5.9	305	Copper		Interp.
	C*32*LE*		16.2	5.9	355	Copper		Interp.
	C*40*LE*		23.6	5.9	462	Copper		Interp.
	C*50*LE*		25.1	5.9	526	Copper	*UUTs: CF2550G60LES30B30*	2,3,4,6,13

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

TABLE 2

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: Elbows

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= *1.60 g* *z/h = 1.0* S_{DS}= *1.79 g* *z/h = 0.0* I_P = *1.5*

Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT
		Depth	Width	Height				
Flat Elbow - Copper - Outdoor (Schneider Electric)	C*08*LF*		3.8	5.9	106	Copper		Interp.
	C*10*LF*		4.3	5.9	119	Copper		Interp.
	C*12*LF*		5.3	5.9	145	Copper		Interp.
	C*13*LF*		5.8	5.9	158	Copper		Interp.
	C*16*LF*		6.7	5.9	182	Copper		Interp.
	C*20*LF*		7.8	5.9	210	Copper	*UUT: COF2520G48LFS24B24*	21
	C*25*LF*		12.7	5.9	289	Copper		Interp.
	C*30*LF*		15.2	5.9	318	Copper		Interp.
	C*32*LF*		16.2	5.9	369	Copper		Interp.
	C*40*LF*		23.6	5.9	462	Copper		Interp.
	C*50*LF*		25.1	5.9	425	Copper	*UUT: COF2550G48LFS24B24*	20

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

TABLE 2

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: Elbows

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= *1.60 g* *z/h = 1.0* S_{DS}= *1.79 g* *z/h = 0.0* I_P = *1.5*

Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT
		Depth	Width	Height				
Edge Elbow - Copper - Outdoor (Schneider Electric)	C*08*LE*		3.8	5.9	102	Copper		Interp.
	C*10*LE*		4.3	5.9	117	Copper		Interp.
	C*12*LE*		5.3	5.9	138	Copper		Interp.
	C*13*LE*		5.8	5.9	152	Copper		Interp.
	C*16*LE*		6.7	5.9	180	Copper		Interp.
	C*20*LE*		7.8	5.9	203	Copper	*UUTs: COF2520G48LES24B24 UUT22: 203lbs., UUT25: 154lbs.*	22, 25
	C*25*LE*		12.7	5.9	276	Copper		Interp.
	C*30*LE*		15.2	5.9	305	Copper		Interp.
	C*32*LE*		16.2	5.9	355	Copper		Interp.
	C*40*LE*		23.6	5.9	398	Copper		Interp.
	C*50*LE*		25.1	5.9	398	Copper	*UUTs: COF2550G48LES24B24 UUT23: 398lbs., UUT24: 365lbs.*	23, 24

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: Tap Boxes

TABLE 3

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= *1.60 g* *z/h = 1.0* S_{DS}= *1.79 g* *z/h = 0.0* I_P = *1.5*

Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT
		Depth	Width	Height				
Tap Box-Aluminum (Schneider Electric) *Horizontal Installation*	A*08*TB*	39.1	11.0	28.0	146	Aluminum		Interp.
	A*10*TB*	39.1	11.0	28.0	154	Aluminum		Interp.
	A*12*TB*	39.1	11.0	28.0	159	Aluminum		Interp.
	A*13*TB*	39.1	14.9	28.0	178	Aluminum		Interp.
	A*16*TB*	39.1	14.9	28.0	187	Aluminum		Interp.
	A*20*TB*	39.1	16.9	28.0	222	Aluminum		Interp.
	A*25*TB*	49.4	20.9	28.0	271	Aluminum		Interp.
	A*30*TB*	49.4	23.8	28.0	299	Aluminum		Interp.
	A*40*TB*	49.4	29.8	34.3	371	Aluminum	*UUTs: AF2540GETBMB*	7,8,9,10
Tap Box-Copper (Schneider Electric) *Horizontal Installation*	C*08*TB*	39.1	11.0	28.0	173	Copper	*UUT: CF2508GETBMB*	16
	C*10*TB*	39.1	11.0	28.0	182	Copper		Interp.
	C*12*TB*	39.1	11.0	28.0	192	Copper		Interp.
	C*13*TB*	39.1	14.9	28.0	220	Copper		Interp.
	C*16*TB*	39.1	14.9	28.0	231	Copper		Interp.
	C*20*TB*	39.1	14.9	28.0	248	Copper		Interp.
	C*25*TB*	49.4	20.9	28.0	345	Copper		Interp.
	C*30*TB*	49.4	20.9	28.0	359	Copper		Interp.
	C*32*TB*	49.4	20.9	28.0	374	Copper		Interp.
	C*40*TB*	49.4	29.8	34.3	475	Copper		Interp.
	C*50*TB*	49.4	29.8	34.3	533	Copper	*UUTs: CF2550GETBMB*	3, 4, 6, 14

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

TABLE 3

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: Tap Boxes

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= *1.60 g* *z/h = 1.0*; S_{DS}= *1.79 g* *z/h = 0.0*; I_P = *1.5*

Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT
		Depth	Width	Height				
Tap Box-Aluminum (Schneider Electric) *Vertical Installation*	A*08*TB*	39.1	11.0	28.0	146	Aluminum		Interp.
	A*10*TB*	39.1	11.0	28.0	154	Aluminum		Interp.
	A*12*TB*	39.1	11.0	28.0	159	Aluminum		Interp.
	A*13*TB*	39.1	14.9	28.0	178	Aluminum		Interp.
	A*16*TB*	39.1	14.9	28.0	187	Aluminum		Interp.
	A*20*TB*	39.1	16.9	28.0	222	Aluminum		Interp.
	A*25*TB*	49.4	20.9	28.0	271	Aluminum		Interp.
	A*30*TB*	49.4	23.8	28.0	299	Aluminum		Interp.
	A*40*TB*	49.4	29.8	34.3	371	Aluminum	*UUT: AF2540GETBMB*	17
Tap Box-Copper (Schneider Electric) *Vertical Installation*	C*08*TB*	39.1	11.0	28.0	173	Copper		Interp.
	C*10*TB*	39.1	11.0	28.0	182	Copper		Interp.
	C*12*TB*	39.1	11.0	28.0	192	Copper		Interp.
	C*13*TB*	39.1	14.9	28.0	220	Copper		Interp.
	C*16*TB*	39.1	14.9	28.0	231	Copper		Interp.
	C*20*TB*	39.1	14.9	28.0	248	Copper		Interp.
	C*25*TB*	49.4	20.9	28.0	345	Copper		Interp.
	C*30*TB*	49.4	20.9	28.0	359	Copper		Interp.
	C*32*TB*	49.4	20.9	28.0	374	Copper		Interp.
	C*40*TB*	49.4	29.8	34.3	475	Copper		Interp.
	C*50*TB*	49.4	29.8	34.3	533	Copper	*UUT: CF2550GETBMB*	18

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: End Closures

TABLE 4

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= *1.60 g* *z/h = 1.0*; S_{DS}= *1.79 g* *z/h = 0.0*; I_P = *1.5*

Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT
		Depth	Width	Height				
End Closure (Schneider Electric) *Horizontal Installation*	ACF-38-EC		4.34	7.1	4	Carbon Steel		16
	ACF-43-EC		4.84	7.1	4	Carbon Steel		Interp.
	ACF-53-EC		5.84	7.1	5	Carbon Steel		Interp.
	ACF-58-EC		6.34	7.1	5	Carbon Steel		Interp.
	ACF-63-EC		6.84	7.1	5	Carbon Steel		Interp.
	ACF-67-EC		7.24	7.1	5	Carbon Steel		Interp.
	ACF-73-EC		7.84	7.1	6	Carbon Steel		Interp.
	ACF-78-EC		8.34	7.1	6	Carbon Steel		Interp.
	ACF-88-EC		9.34	7.1	7	Carbon Steel		Interp.
	ACF-13-EC		13.22	7.1	9	Carbon Steel		Interp.
	ACF-15-EC		15.72	7.1	10	Carbon Steel		Interp.
	ACF-17-EC		16.72	7.1	11	Carbon Steel		Interp.
	ACF-19-EC		19.22	7.1	13	Carbon Steel		Interp.
	ACF-24-EC		24.1	7.1	15	Carbon Steel		Interp.
	ACF-25-EC		25.6	7.1	16	Carbon Steel		2, 13, 14
	ACF-26-EC		26.1	7.1	16	Carbon Steel		12

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

TABLE 4

Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: End Closures

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= *1.60 g* *z/h = 1.0* I_P = *1.5*
S_{DS}= *1.79 g* *z/h = 0.0*

Model Line (Manufacturer)	Model	Dimension (in)			Weight (lb)	Material	Notes	UUT
		Depth	Width	Height				
End Closure (Schneider Electric) *Vertical Installation*	ACF-38-EC		4.34	7.1	4	Carbon Steel		Interp.
	ACF-43-EC		4.84	7.1	4	Carbon Steel		Interp.
	ACF-53-EC		5.84	7.1	5	Carbon Steel		Interp.
	ACF-58-EC		6.34	7.1	5	Carbon Steel		Interp.
	ACF-63-EC		6.84	7.1	5	Carbon Steel		Interp.
	ACF-67-EC		7.24	7.1	5	Carbon Steel		Interp.
	ACF-73-EC		7.84	7.1	6	Carbon Steel		Interp.
	ACF-78-EC		8.34	7.1	6	Carbon Steel		Interp.
	ACF-88-EC		9.34	7.1	7	Carbon Steel		Interp.
	ACF-13-EC		13.22	7.1	9	Carbon Steel		Interp.
	ACF-15-EC		15.72	7.1	10	Carbon Steel		Interp.
	ACF-17-EC		16.72	7.1	11	Carbon Steel		Interp.
	ACF-19-EC		19.22	7.1	13	Carbon Steel		Interp.
	ACF-24-EC		24.1	7.1	15	Carbon Steel		Interp.
	ACF-25-EC		25.6	7.1	16	Carbon Steel		3, 4, 6
	ACF-26-EC		26.1	7.1	16	Carbon Steel		7,8,9,10

SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1700818

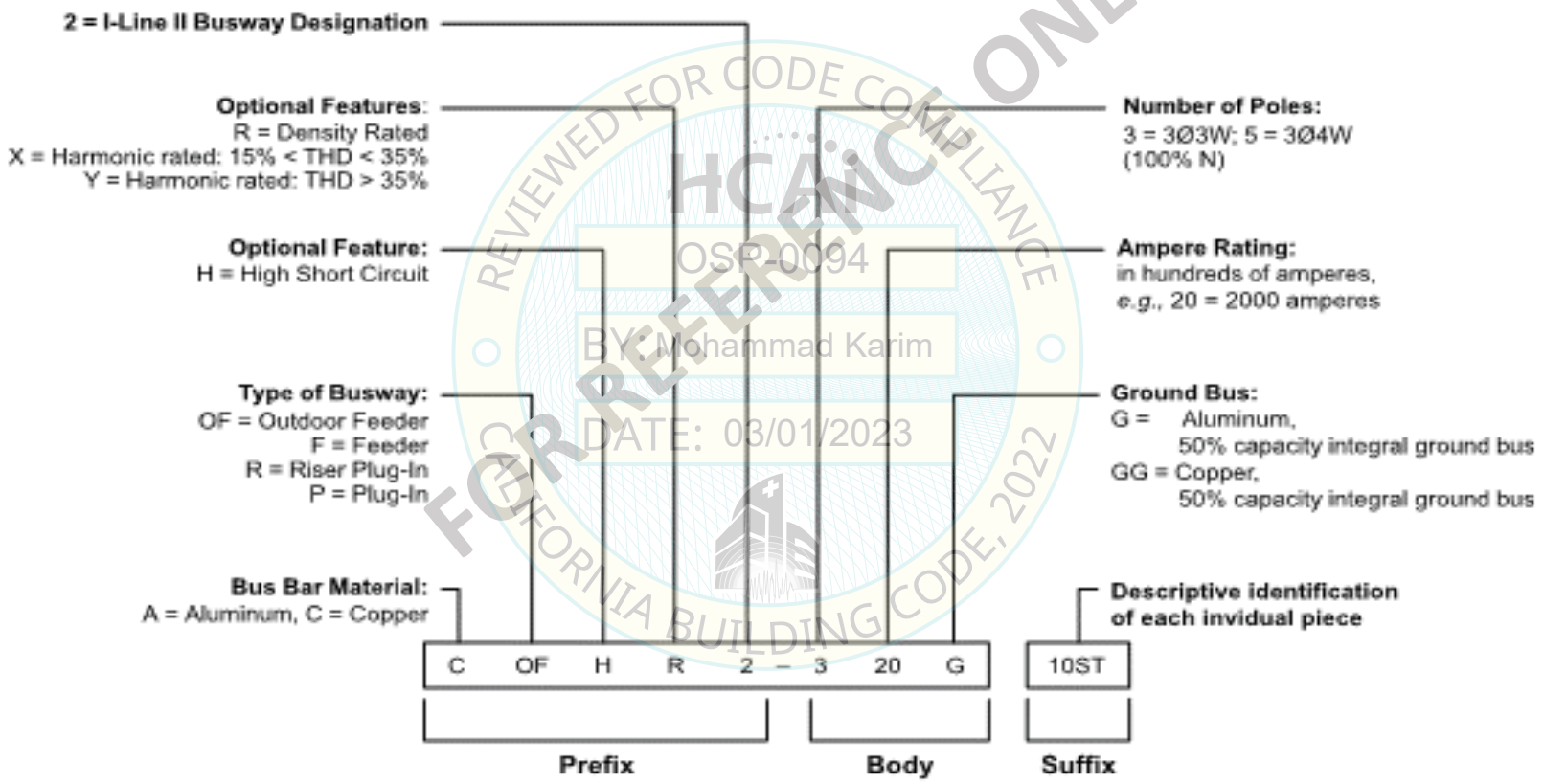
Manufacturer: Square D by Schneider Electric
Model Line: I-Line II Busway
Table Description: Plug-in Units

TABLE 5

Building Code: CBC 2022
Seismic Certification Limits: S_{DS}= ***1.60 g*** ***z/h = 1.0*** S_{DS}= ***1.79 g*** ***z/h = 0.0*** I_P = ***1.5***

Component Type	Manufacturer	Model	Description	Notes	UUT
Molded Case Circuit Breakers - H, J, L, M, P, R Frames	Schneider Electric	PH*	15-150A; 23 lbs. and below		Interp.
		PJD36250GN	250A, 29 lbs		3, 7, 14
		P*	15-600A; 29-123 lbs.		Interp.
		PBLD36600GNU31X	600A, 123 lbs.		4, 7, 14
		PTPG36120GNVU31A	1200A, 252 lbs.		3, 8
		P*	250-1600A; 123-342 lbs.		Interp.
		PTRG36160GNVU31A	1600A, 342 lbs.		2, 9
Fusible Switches PQ & PS	Schneider Electric	PQ4606GM54	60A, 18 lbs.		18
		P*	30-200A; 18-73 lbs.		Interp.
		PQ4620	200A, 71 lbs.		14
		PS4620G	200A, 73 lbs.		2, 9
Reduced Capacity Tap Box	Schneider Electric	PTRC512GM54	178 lbs.		17
Surge Protective Device (SPD)	Schneider Electric	PIU2IMA16	160kA; 208Y/120 VAC, 3P, 4W, w/ Ground; 34 lbs		Interp.
		PIU3IMA16	160kA; 240/120 VAC, 3P, 4W, w/ Ground; 34 lbs		Interp.
		PIU4IMA16	160kA; 480Y/277 VAC, 3P, 4W, w/ Ground; 34 lbs		Interp.
		PIU8IMA 16	160kA; 600Y/347 VAC, 3P, 4W, w/ Ground; 34 lbs		Interp.
		PIU2IMA24	240kA; 208Y/120 VAC, 3P, 4W, w/ Ground; 34 lbs		Interp.
		PIU3IMA24	240kA; 240/120 VAC, 3P, 4W, w/ Ground; 34 lbs		Interp.
		PIU4IMA24	240kA; 480Y/277 VAC, 3P, 4W, w/ Ground; 34 lbs		Interp.
		PIU8IMA24	240kA; 600Y/347 VAC, 3P, 4W, w/ Ground; 34 lbs		16
		PIU2IMA32	320kA; 208Y/120 VAC, 3P, 4W, w/ Ground; 46 lbs		Interp.
		PIU3IMA32	320kA; 240/120 VAC, 3P, 4W, w/ Ground; 46 lbs		Interp.
		PIU4IMA32	320kA; 480Y/277 VAC, 3P, 4W, w/ Ground; 46 lbs		19
		PIU8IMA32	320kA; 600Y/347 VAC, 3P, 4W, w/ Ground; 46 lbs		Interp.

Figure 59 - I-Line 800–5000 A Busway Catalog Numbering System



NOTE:

Harmonic rated cannot be combined with density rating.

The 2 is omitted when both outdoor feeder (OF) and high short circuit (H) features are selected together.

NOTE: SUFFIX of each individual busway component beginning with Straight Lengths—Plug-In (Indoor Only).

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric

Model Line: I-Line II Busway

UUT	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S_{DS} (g)	z/h	I_P
1	Not Used							
2	5000A Copper, NS, R-Frame (vertical & horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT2)	SEESL	2018	Yes	1.60 1.89	1.0 0.0	1.5
3	5000A Copper, ETB, J & R-Frame (vertical & horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT3)	SEESL	2018	Yes	1.67 1.79	1.0 0.0	1.5
4	5000A Copper, ETB, L-Frame (vertical & horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT4)	SEESL	2018	Yes	1.81 1.90	1.0 0.0	1.5
5	Not Used							
6	5000A Copper, ETB (vertical & horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT6)	SEESL	2018	Yes	2.18 2.36	1.0 0.0	1.5
7	4000A Aluminum, ETB, L & J-Frame (vertical & horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT7)	SEESL	2018	Yes	1.60 1.85	1.0 0.0	1.5
8	4000A Aluminum, ETB, P-Frame (vertical & horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT8)	SEESL	2018	Yes	1.65 1.87	1.0 0.0	1.5
9	4000A Aluminum, PS, ETB, R-Frame (vertical & horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT9)	SEESL	2018	Yes	1.63 1.89	1.0 0.0	1.5
10	4000A Aluminum, ETB (vertical & horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT10)	SEESL	2018	Yes	2.46 2.82	1.0 0.0	1.5
11	Not Used							
12	4000A Aluminum Offset, S-Shaped (horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT12)	SEESL	2018	Yes	2.12 2.39	1.0 0.0	1.5

Notes:

1. *See Addendum to test report "UB CSEE/SEESL-2018-03" for back-calculated achieved SDS values*

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric

Model Line: I-Line II Busway

UUT	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S_{DS} (g)	z/h	I_P
13	5000A Copper Offset, S-Shaped (horizontal mounted)	UB CSEE/SEESL-2018-03[1] (UUT12)	SEESL	2018	Yes	2.11 2.38	1.0 0.0	1.5
14	5000A Copper, IL2 Flatwise Busway (horizontal mounted)	Wyle 56276R08[2] (UUT1A - Run 6)	NTS-Huntsville (formerly Wyle)	2008	Yes	2.34 3.75	1.0 0.0	1.5
15	Not Used							
16	800A/1000A Copper (horizontal mounted)	PR048881-TR-16[3] (UUT1 - Run 4)	NTS-Huntsville	2016	Yes	2.31 2.31	1.0 0.0	1.5
17	4000A Aluminum, ETB, RCTB Plug-In (vertical mounted)	1901349-TR-001-R0[4] (UUT30A)	ETL	2020	Yes	2.02 3.24	1.0 0.0	1.5
18	5000A Copper, ETB, PQ4606 Plug-In (vertical mounted)	1901349-TR-001-R0[4] (UUT31A)	ETL	2020	Yes	2.02 3.24	1.0 0.0	1.5
19	4000A Al Horizontal w/SPD Plug-in Unit (horizontal mounted)	2200541-TR-002-R1 (UUT38)	SEESL	2022	Yes	2.18 2.28	1.0 0.0	1.5
20	5000A Cu Outdoor w/Flat Elbow (horizontal mounted)	2200541-TR-001-R1 (UUT31)	SEESL	2022	Yes	2.10 2.20	1.0 0.0	1.5
21	2000A Cu Outdoor w/Flat Elbow (horizontal mounted)	2200541-TR-001-R1 (UUT35)	SEESL	2022	Yes	2.12 2.23	1.0 0.0	1.5
22	2000A Cu Outdoor w/Edgewise Elbow (horizontal mounted)	2200541-TR-001-R1 (UUT37)	SEESL	2022	Yes	2.13 2.23	1.0 0.0	1.5
23	5000A Cu Outdoor w/Edgewise Elbow (horizontal mounted)	2200541-TR-001-R1 (UUT33)	SEESL	2022	Yes	2.10 2.23	1.0 0.0	1.5

Notes:

1. *See Addendum to test report "UB CSEE/SEESL-2018-03" for back-calculated achieved SDS values.*

2. *See Addendum to test report "Wyle 56276R08" for back-calculated achieved SDS values.*

3. *See Addendum to test report "NTS PR048881-TR-16" for back-calculated achieved SDS values.*

4. *See Addendum to test report "1901349-TR-001-R0" for back-calculated achieved SDS values.*

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer: Square D by Schneider Electric

Model Line: I-Line II Busway

UUT	Unit Description (mounting)	Report Number (UUT#)	Testing Lab	Year Tested	ISO 17025 Accredited?	S_{DS} (g)	z/h	I_P
24	5000A Cu Vertical Busway (vertical mounted)	2201192-TR-001-R1 (UUT2)	SEESL	2022	Yes	2.15 2.28	1.0 0.0	1.5
25	2000A Cu Vertical Busway (vertical mounted)	2201192-TR-001-R1 (UUT3)	SEESL	2022	Yes	2.12 2.33	1.0 0.0	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 2

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Copper, NS, R-Frame
Serial Number:	N/A
Test Report:	*UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
3,952	190.7	84.3	201.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	1.60	1.0	1.5	2.56	1.92	1.26	0.50
		1.89	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	***Part Number***	***Weight (lbs.)***
Vertical:		
4' 5000A Cu 4P Feeder Busway	*CF2550G4ST*	*98 /ft*
10' 5000A Cu 4P Plug-in Busway	*CP2550G10ST*	*99 /ft*
200A Fusible PS4620G	*PS4620G*	*73*
1600A R-Frame Breaker	*PTRG36160GNVU 31A*	*342*
5000A Cu 4P Edgewise Elbow	*CF2550G60LES30 B30*	*526*
Horizontal:		
4' 5000A Cu 4P Feeder Busway	*CF2550G4ST*	*98 /ft*
6' 5000A Cu 4P Plug-in Busway	*CP2550G6ST*	*103 /ft*
5000A Cu 4P Flatwise Elbow	*CF2550G60LFS30 B30*	*534*
End Closure	*ACF-25-EC*	*16*

Test Mounting Details:

Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 14'.
Horizontal section mounted with 3/4" dia. drop rods spaced at 10'.
Lateral and Longitudinal bracing was included per attached drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

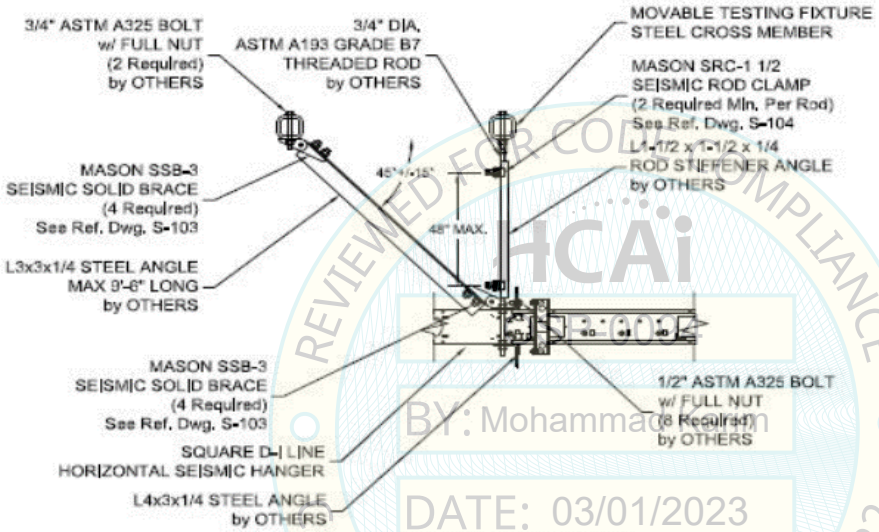
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 2**	
Model Line:	I-Line II Busway		
Model Number:	5000A Copper, NS, R-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

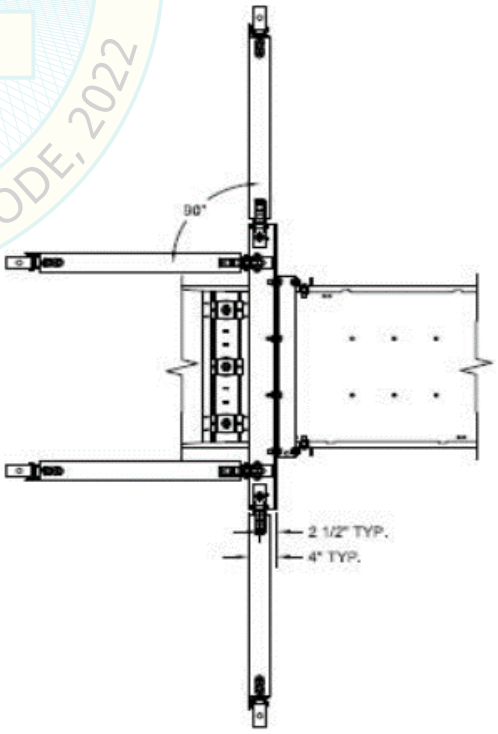
Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

*MASON SRC SEISMIC ROD CLAMPS ARE REQUIRED FOR ROD LENGTH "L" GREATER THAN 23" AND ARE STRONGLY RECOMMENDED FOR SHAKE TABLE TESTING.



PLAN VIEW OF BUSWAY

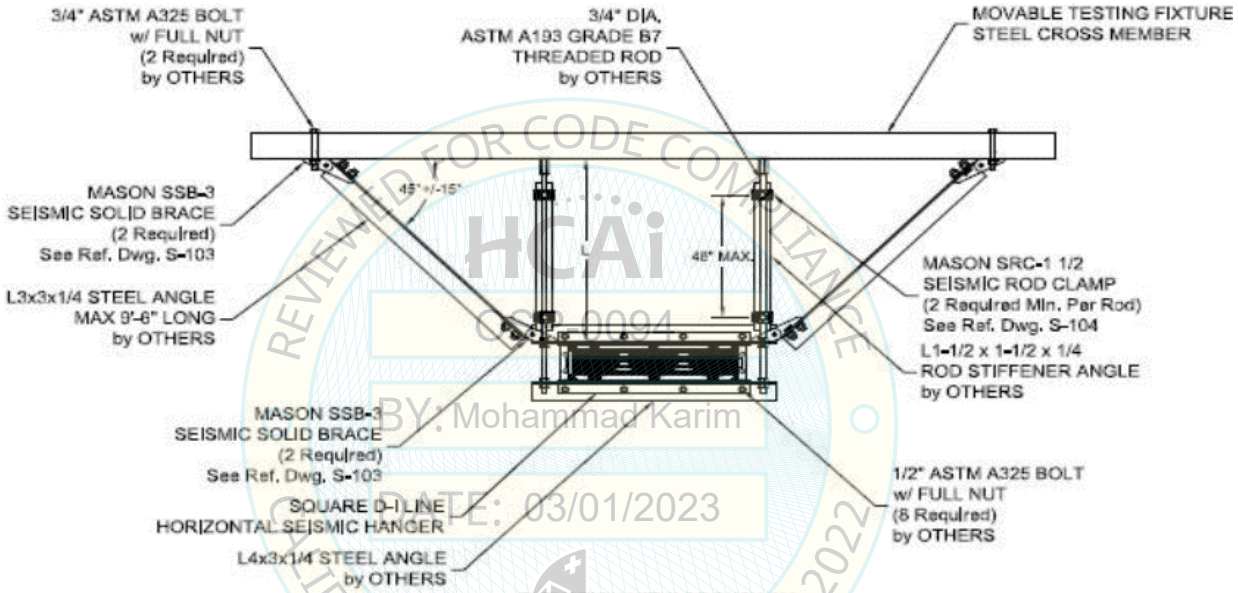
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 2**	
Model Line:	I-Line II Busway		
Model Number:	5000A Copper, NS, R-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

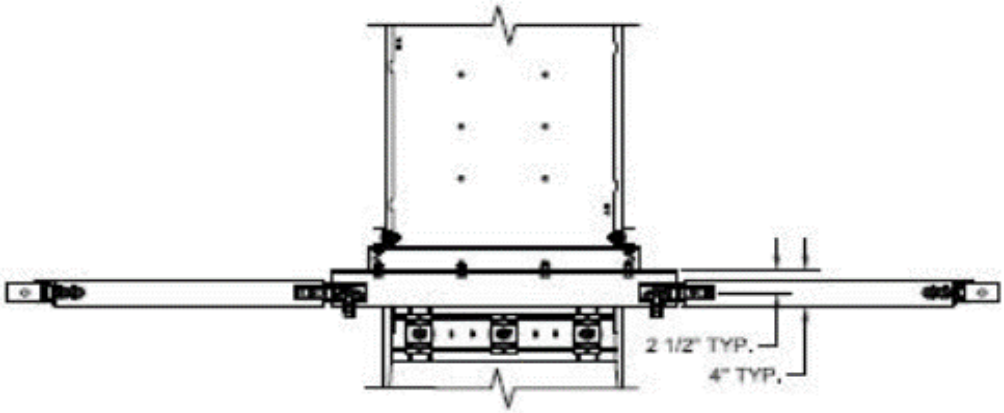
Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

*MASON SRC SEISMIC ROD CLAMPS ARE REQUIRED FOR ROD LENGTH "L" GREATER THAN 23" AND ARE STRONGLY RECOMMENDED FOR SHAKE TABLE TESTING.



PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 3

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Copper, ETB, J & R-Frame
Serial Number:	N/A
Test Report:	*UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
4,351	227.6	82.6	212.7	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	1.67	1.0	1.5	2.67	2.00	1.19	0.48
		1.79	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.
NEMA Type 1 Rated Busway Run Enclsoure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
Vertical:		
4' 5000A Cu 4P Feeder Busway	*CF2550G4ST*	*98 /ft*
10' 5000A Cu 4P Plug-in Busway	*CP2540G10ST*	*99 /ft*
250A J-Frame Breaker	*PJD36250GN*	*29*
1200A P-Frame Breaker	*PTPG36120GNVU 31A*	*252*
5000A Cu 4P Edgewise Elbow	*CF2550G60LES30 B30*	*526*
End Closure	*ACF-25-EC*	*16*
Horizontal:		
4' 5000A Cu 4P Feeder Busway	*CF2550G4ST*	*98 /ft*
6' 5000A Cu 4P Plug-in Busway	*CP2550G6ST*	*103 /ft*
5000A Cu 4P Flatwise Elbow	*CF2550G60LFS30 B30*	*534*
5000A Cu 4P End Tap Box	*CF2550GETBMB*	*533*

Test Mounting Details:

Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 14'.
Horizontal section mounted with 3/4" dia. drop rods spaced at 10'.
Lateral and Longitudinal bracing was included per attached drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

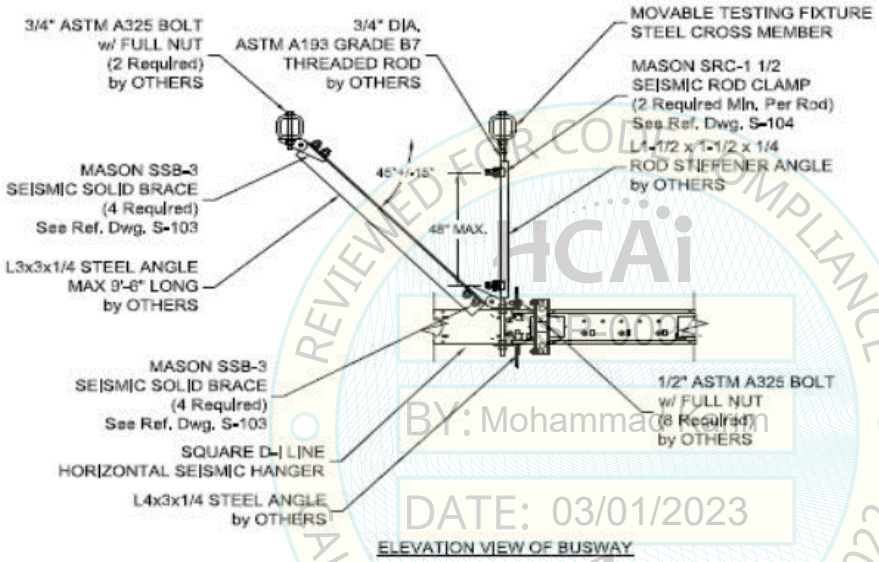
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 3**	
Model Line:	I-Line II Busway		
Model Number:	5000A Copper, ETB, J & R-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

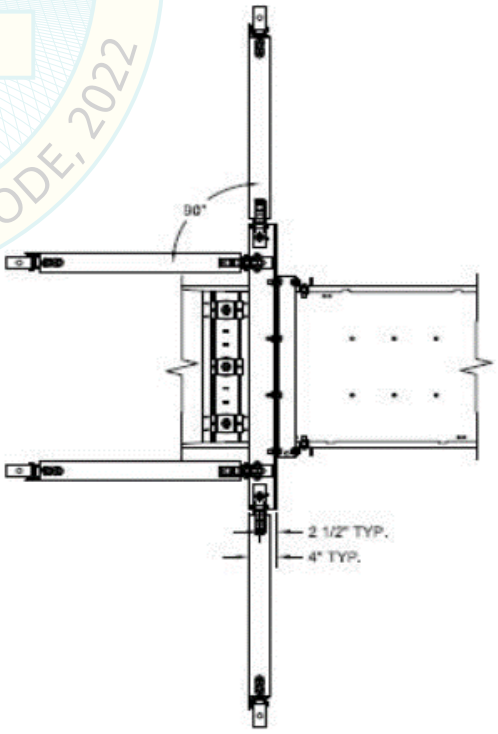
Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

*MASON SRC SEISMIC ROD CLAMPS ARE REQUIRED FOR ROD LENGTH "L" GREATER THAN 23" AND ARE STRONGLY RECOMMENDED FOR SHAKE TABLE TESTING.



PLAN VIEW OF BUSWAY

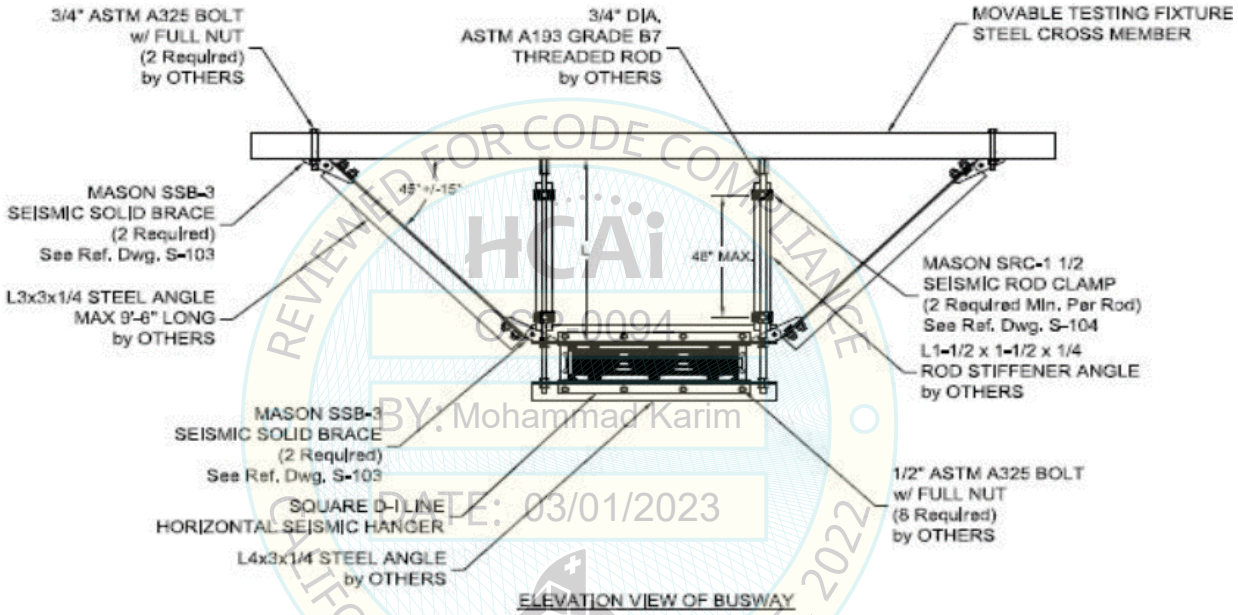
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 3**	
Model Line:	I-Line II Busway		
Model Number:	5000A Copper, ETB, J & R-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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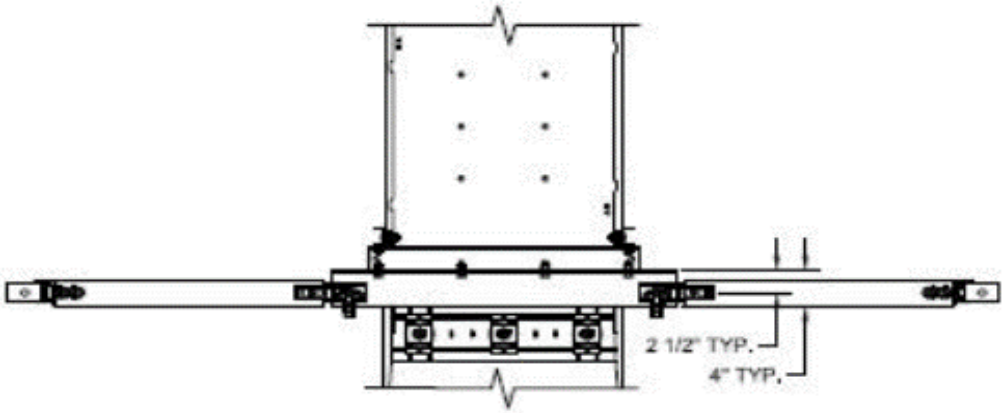


PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Copper, ETB, L-Frame
Serial Number:	N/A

UUT 4

Test Report: *UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
4,193	221.3	84.6	212.7	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	1.81	1.0	1.5	2.90	2.17	1.27	0.51
		1.90	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	***Part Number***	***Weight (lbs.)***
Vertical:		
4' 5000A Cu 4P Feeder Busway	*CF2550G4ST*	*98 /ft*
10' 5000A Cu 4P Plug-in Busway	*CP2550G10ST*	*99 /ft*
5000A Cu 4P Edgewise Elbow	*CF2550G60LES30 B30*	*526*
600A L-Frame Breaker	*PBLD36600GNU3 1X*	*123*
End Closure	*ACF-25-EC*	*16*
Horizontal:		
4' 5000A Cu 4P Feeder Busway	*CF2550G4ST*	*98 /ft*
6' 5000A Cu 4P Plug-in Busway	*CP2550G6ST*	*103 /ft*
5000A Cu 4P Flatwise Elbow	*CF2550G60LFS30 B30*	*534*
5000A Cu 4P End Tap Box	*CF2550GETBMB*	*533*

Test Mounting Details:

Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 14'.
Horizontal section mounted with 3/4" dia. drop rods spaced at 10'.
Lateral and Longitudinal bracing was included per attached drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

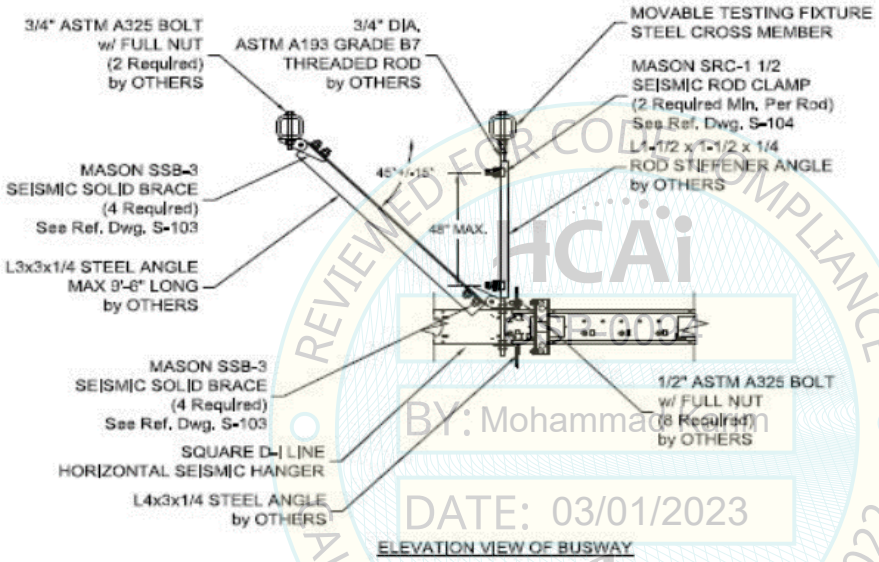
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 4**
Model Line:	I-Line II Busway	
Model Number:	5000A Copper, ETB, L-Frame	
Serial Number:	N/A	***Test Report:*** *UB CSEE/SEESL-2018-03*

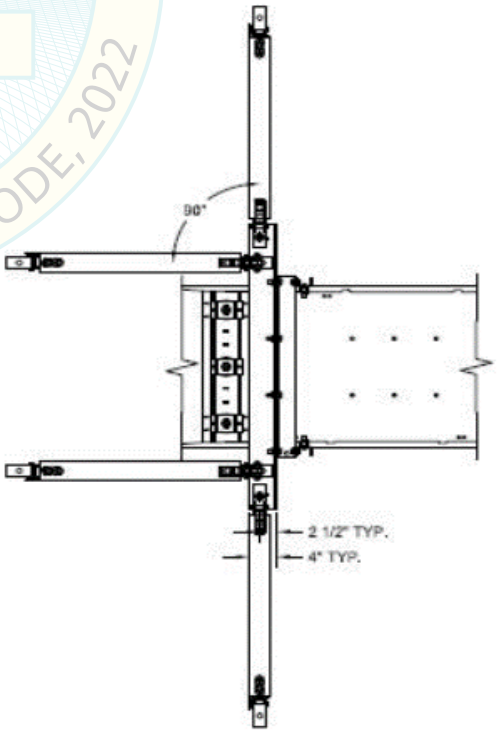
Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

*MASON SRC SEISMIC ROD CLAMPS ARE REQUIRED FOR ROD LENGTH "L" GREATER THAN 23" AND ARE STRONGLY RECOMMENDED FOR SHAKE TABLE TESTING.



PLAN VIEW OF BUSWAY

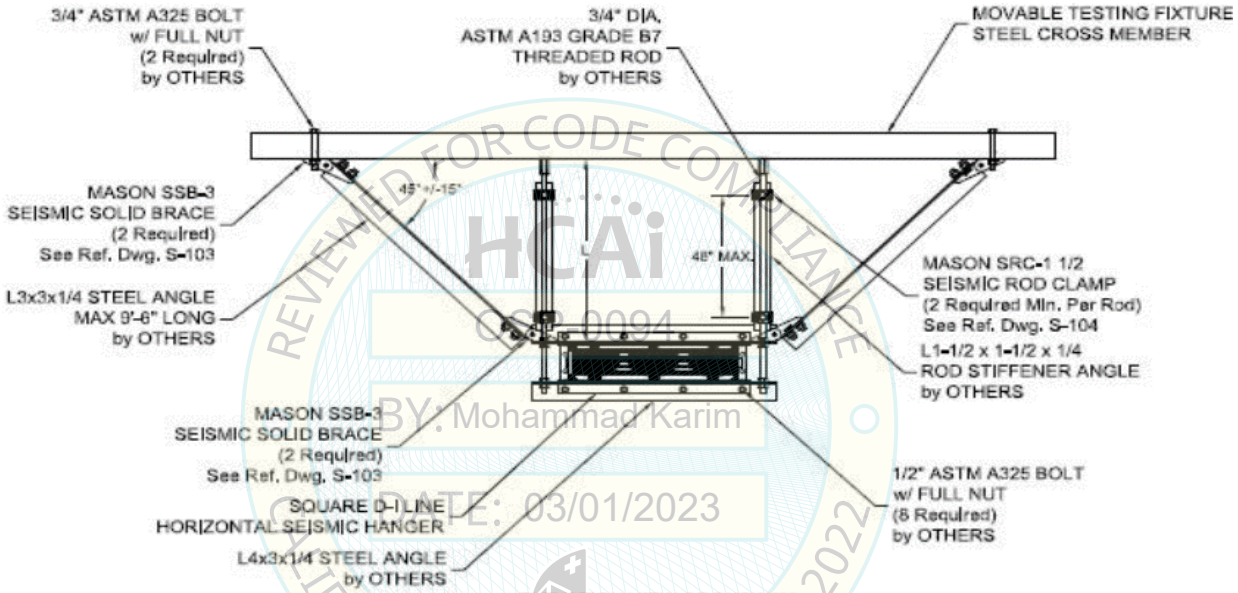
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric		**UUT 4**
Model Line:	I-Line II Busway		
Model Number:	5000A Copper, ETB, L-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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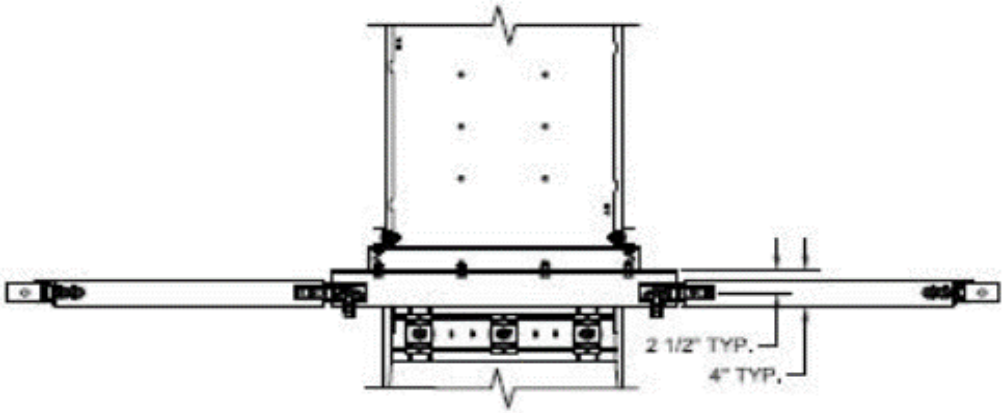


PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Copper, ETB
Serial Number:	N/A

UUT 6

Test Report: *UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
4,070	210.4	77.9	212.7	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.18	1.0	1.5	3.49	2.62	1.57	0.63
		2.36	0.0					

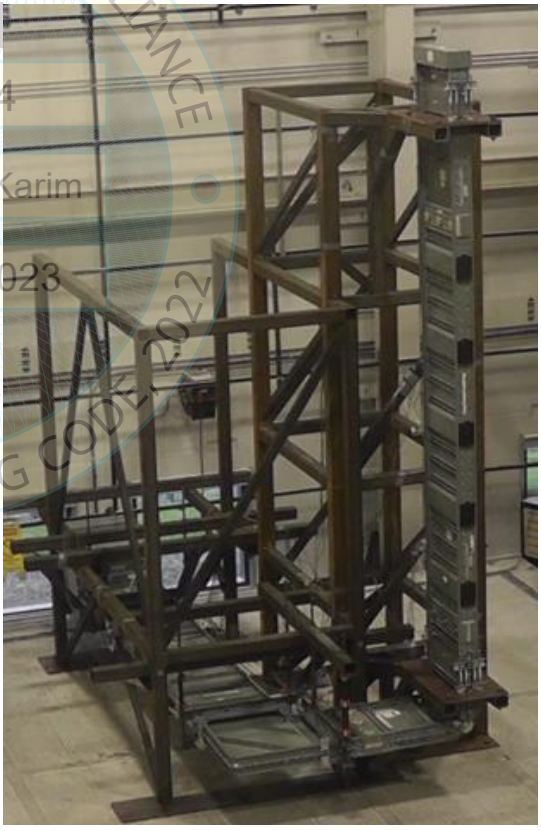
Product Construction Summary:

Carbon steel construction. Copper conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	***Part Number***	***Weight (lbs.)***
Vertical:		
4' 5000A Cu 4P Feeder Busway	*CF2550G4ST*	*98 /ft*
10' 5000A Cu 4P Plug-in Busway	*CP2550G10ST*	*99 /ft*
5000A Cu 4P Edgewise Elbow	*CF2550G60LES30 B30*	*526*
End Closure	*ACF-25-EC*	*16*
Horizontal:		
4' 5000A Cu 4P Feeder Busway	*CF2550G4ST*	*98 /ft*
6' 5000A Cu 4P Plug-in Busway	*CP2550G6ST*	*103 /ft*
5000A Cu 4P Flatwise Elbow	*CF2550G60LFS30 B30*	*534*
5000A Cu 4P End Tap Box	*CF2550GETBMB*	*533*

Test Mounting Details:



Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 14'.
Horizontal section mounted with 3/4" dia. drop rods spaced at 10'.
Lateral and Longitudinal bracing was included per attached drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

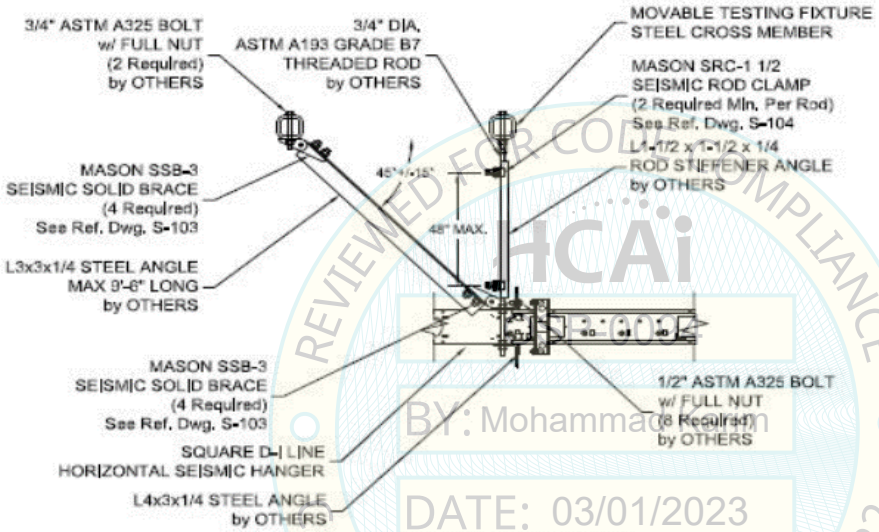
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 6**	
Model Line:	I-Line II Busway		
Model Number:	5000A Copper, ETB		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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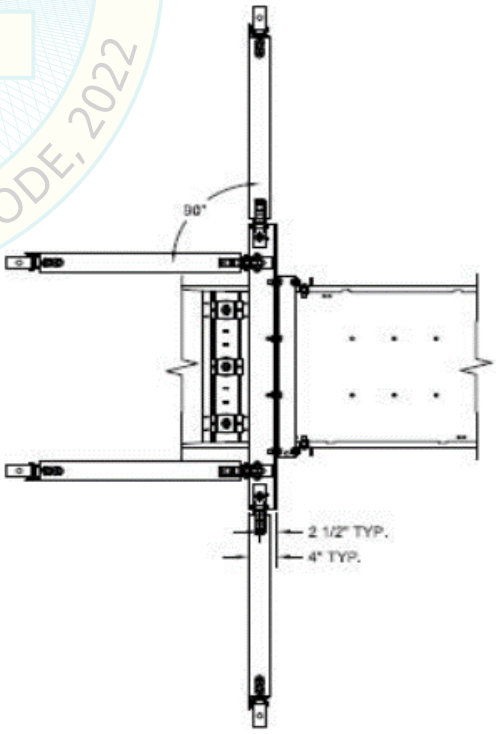


PLAN VIEW OF BUSWAY

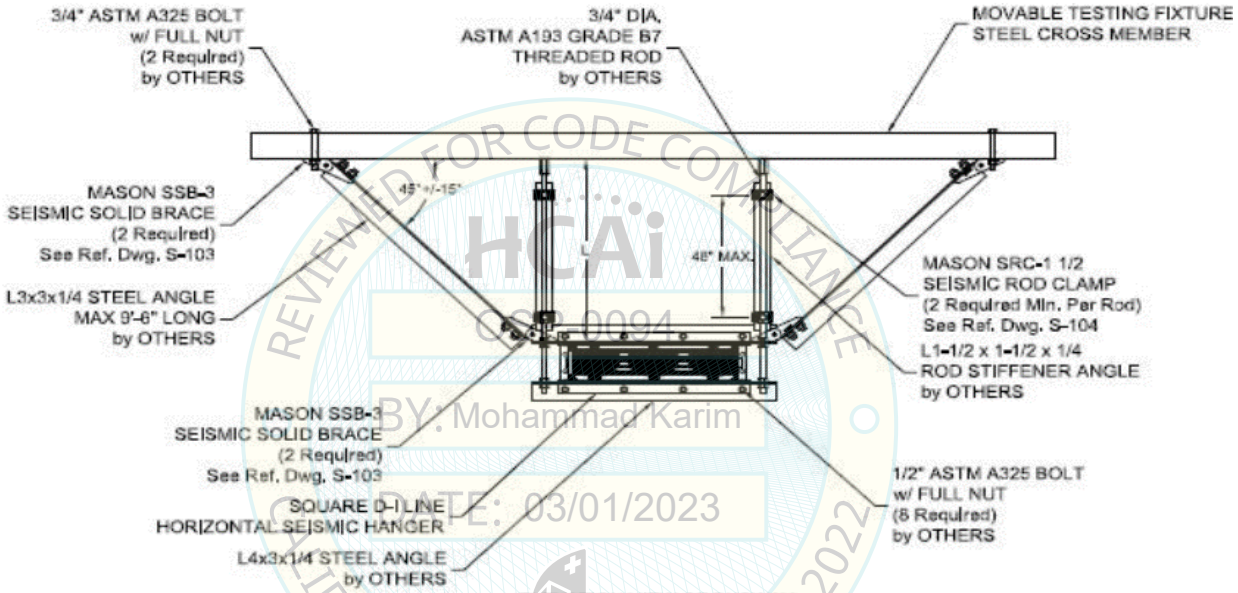
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 6**	
Model Line:	I-Line II Busway		
Model Number:	5000A Copper, ETB		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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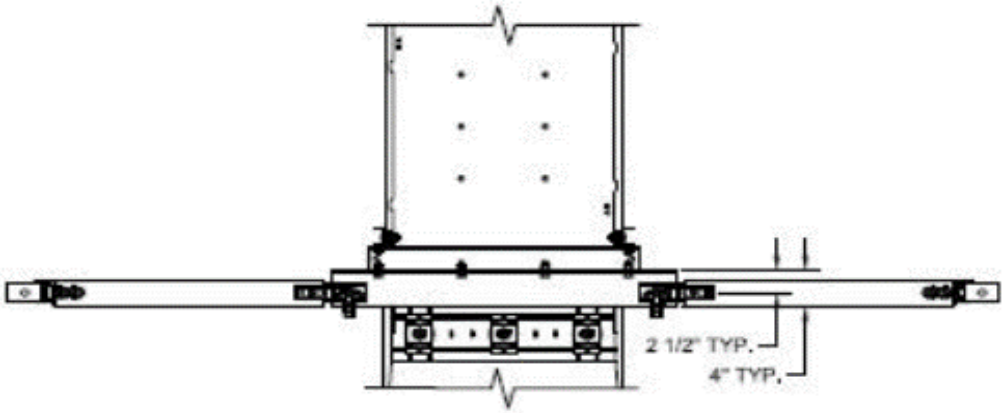


PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	4000A Aluminum, ETB, L & J-Frame
Serial Number:	N/A

UUT 7

Test Report: *UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2,255	221.3	83.7	212.7	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	1.60	1.0	1.5	2.56	1.92	1.23	0.49
		1.85	0.0					

Product Construction Summary:

Carbon steel construction. Aluminum conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
Vertical:		
4' 4000A Al 4P Feeder Busway	*AF2540G4ST*	*47 /ft*
10' 4000A Al 4P Plug-in Busway	*AP2540G10ST*	*47 /ft*
250A J-Frame Breaker	*PJD36250GN*	*29*
600A L-Frame Breaker	*PBLD36600GNU31X*	*123*
4000A Al 4P Edgewise Elbow	*AF2540G60LES30B30*	*249*
End Closure	*ACF-26-EC*	*16*
Horizontal:		
4' 4000A Al 4P Feeder Busway	*AF2540G4ST*	*47 /ft*
6' 4000A Al 4P Plug-in Busway	*AP2540G6ST*	*49 /ft*
4000A Al 4P Flatwise Elbow	*AF2540G60LFS30B30*	*247*
4000A Al 4P End Tap Box	*AF2540GETBMB*	*371*

Test Mounting Details:

Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 14'.
Horizontal section mounted with 3/4" dia. drop rods spaced at 10'.
Lateral and Longitudinal bracing was included per attached drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

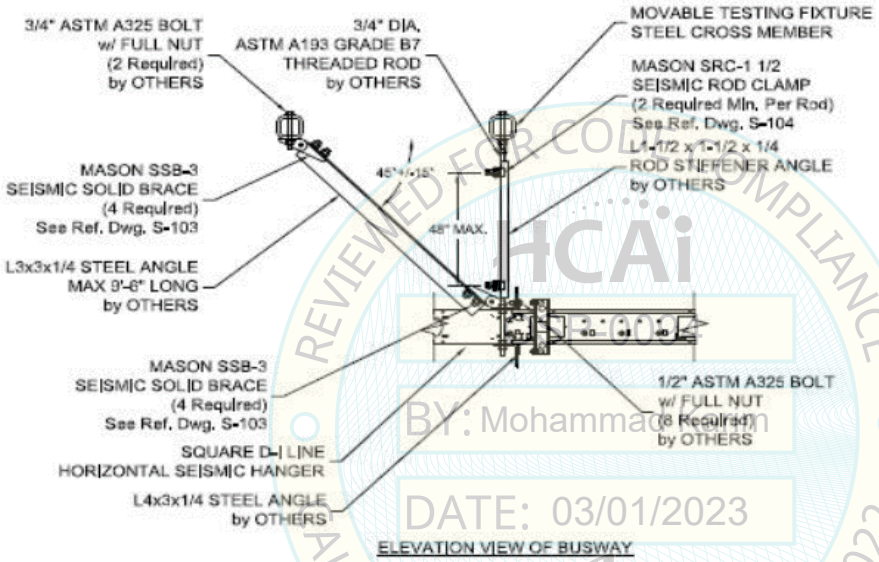
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 7**	
Model Line:	I-Line II Busway		
Model Number:	4000A Aluminum, ETB, L & J-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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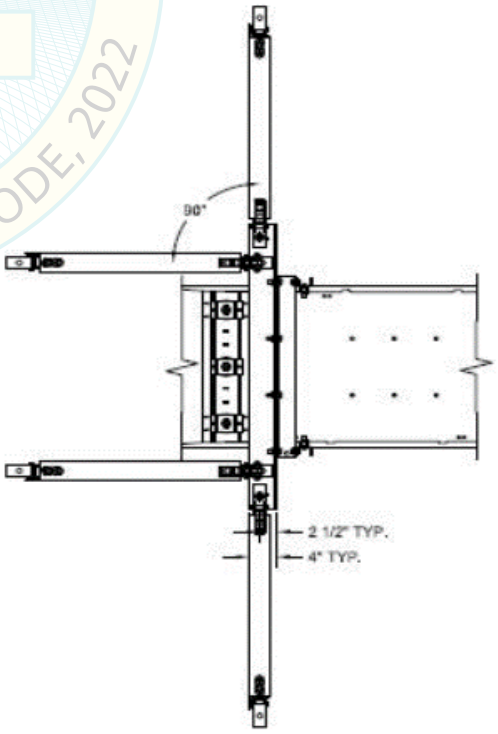


PLAN VIEW OF BUSWAY

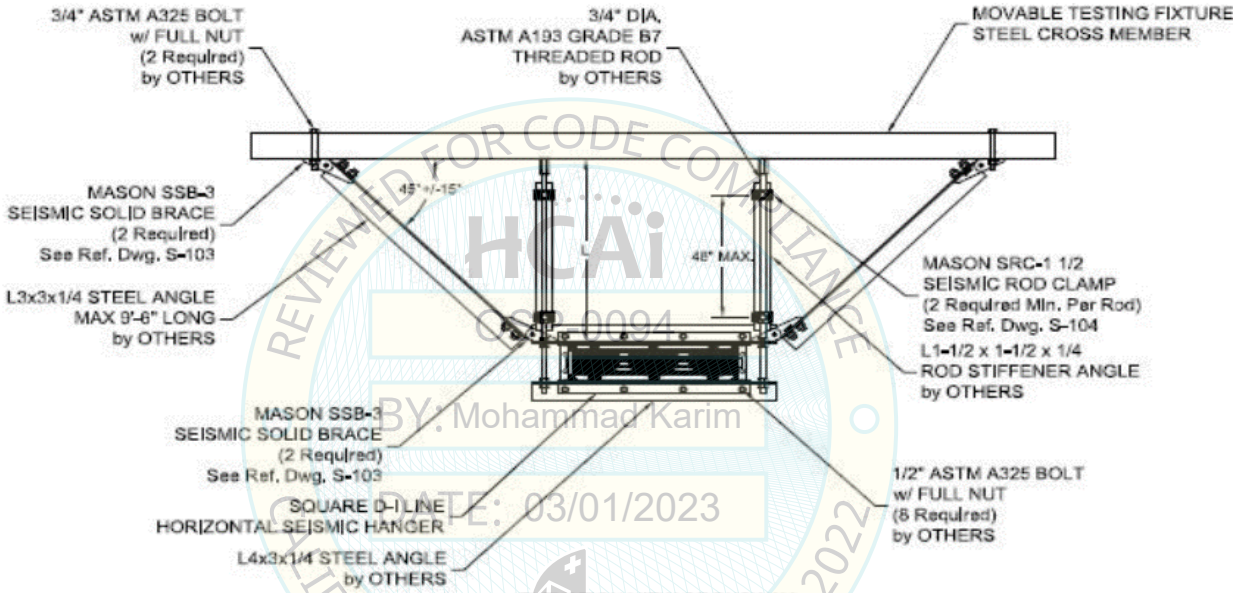
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric		**UUT 7**
Model Line:	I-Line II Busway		
Model Number:	4000A Aluminum, ETB, L & J-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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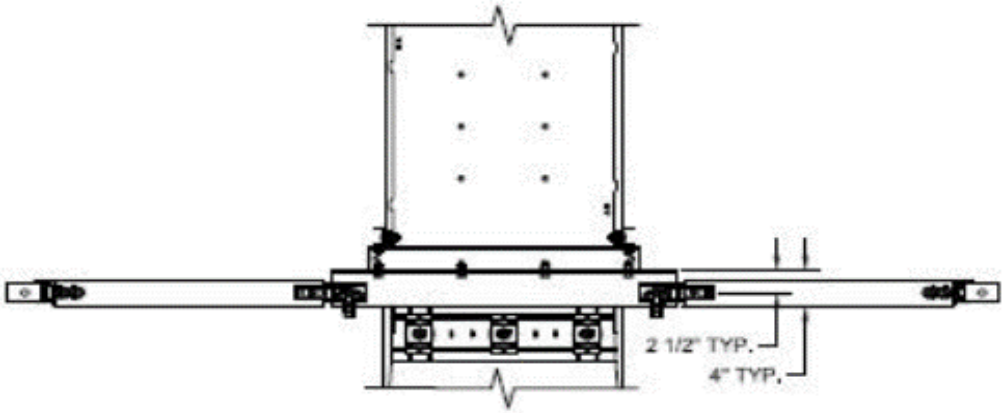


PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	4000A Aluminum, ETB, P-Frame
Serial Number:	N/A

UUT 8

Test Report: *UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2,349	227.6	82.6	215.2	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	1.65	1.0	1.5	2.64	1.98	1.25	0.50
		1.87	0.0					

Product Construction Summary:

Carbon steel construction. Aluminum conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	***Part Number***	***Weight (lbs.)***
Vertical:		
4' 4000A Al 4P Feeder Busway	*AF2540G4ST*	*47 /ft*
10' 4000A Al 4P Plug-in Busway	*AP2540G10ST*	*47 /ft*
250A J-Frame Breaker	*PJD36250GN*	*29*
1200A P-Frame Breaker	*PTPG36120GNVU 31A*	*252*
End Closure	*ACF-26-EC*	*16*
Horizontal:		
4' 4000A Al 4P Feeder Busway	*AF2540G4ST*	*47 /ft*
6' 4000A Al 4P Plug-in Busway	*AP2540G6ST*	*49 /ft*
4000A Al 4P Flatwise Elbow	*AF2540G60LFS30 B30*	*247*
4000A Al 4P End Tap Box	*AF2540GETBMB*	*371*

Test Mounting Details:

Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 14'.
Horizontal section mounted with 3/4" dia. drop rods spaced at 10'.
Lateral and Longitudinal bracing was included per attached drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

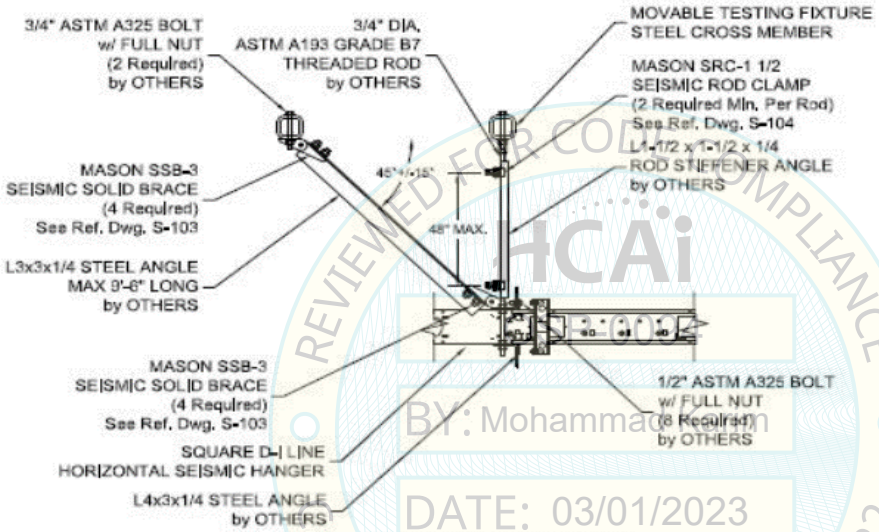
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 8**
Model Line:	I-Line II Busway	
Model Number:	4000A Aluminum, ETB, P-Frame	
Serial Number:	N/A	***Test Report:*** *UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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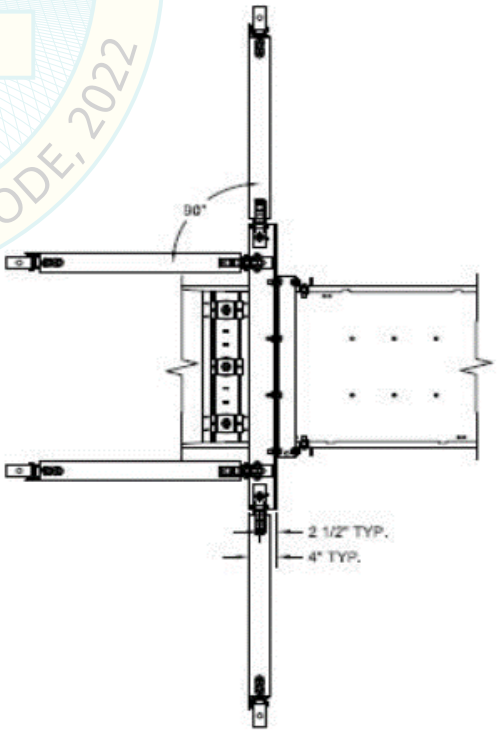


PLAN VIEW OF BUSWAY

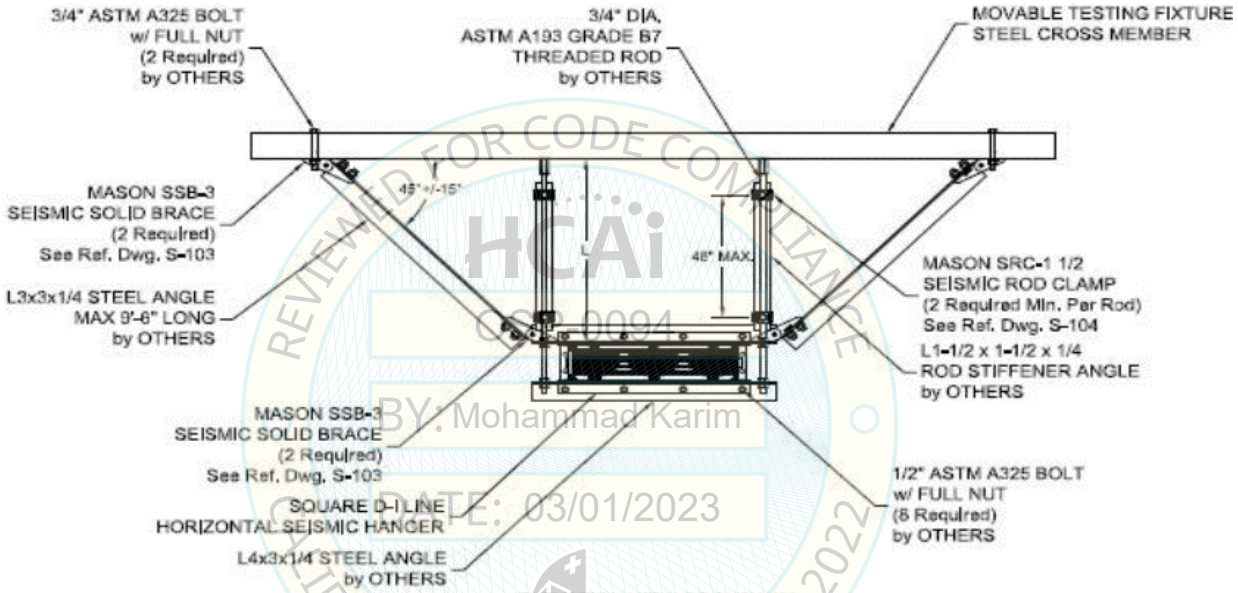
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 8**	
Model Line:	I-Line II Busway		
Model Number:	4000A Aluminum, ETB, P-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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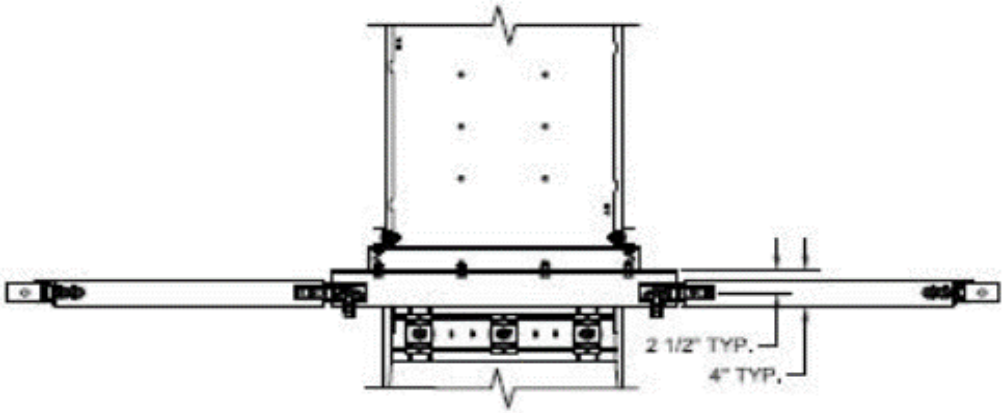


PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 9

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	4000A Aluminum, PS, ETB, R-Frame
Serial Number:	N/A
Test Report:	*UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2,512	229.7	85.9	212.7	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	1.63	1.0	1.5	2.61	1.96	1.26	0.50
		1.89	0.0					

Product Construction Summary:

Carbon steel construction. Aluminum conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
Vertical:		
4' 4000A Al 4P Feeder Busway	*AF2540G4ST*	*47 /ft*
10' 4000A Al 4P Plug-in Busway	*AP2540G10ST*	*47 /ft*
200A Fusible (PS)	*PS4620G*	*73*
1600A R-Frame Breaker	*PTRG36160GNVU 31A*	*342*
4000A Al 4P Edgewise Elbow	*AF2540G60LES30 B30*	*249*
End Closure	*ACF-26-EC*	*16*
Horizontal:		
4' 4000A Al 4P Feeder Busway	*AF2540G4ST*	*47 /ft*
6' 4000A Al 4P Plug-in Busway	*AP2540G6ST*	*49 /ft*
4000A Al 4P Flatwise Elbow	*AF2540G60LFS30 B30*	*247*
4000A Al 4P End Tap Box	*AF2540GETBMB*	*371*

Test Mounting Details:

Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 14'.
Horizontal section mounted with 3/4" dia. drop rods spaced at 10'.
Lateral and Longitudinal bracing was included per attached drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

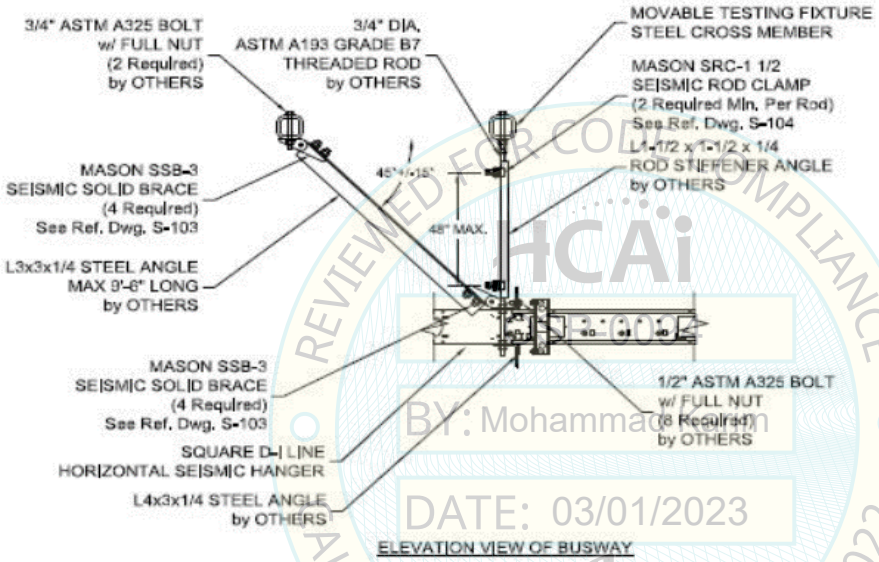
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 9**	
Model Line:	I-Line II Busway		
Model Number:	4000A Aluminum, PS, ETB, R-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

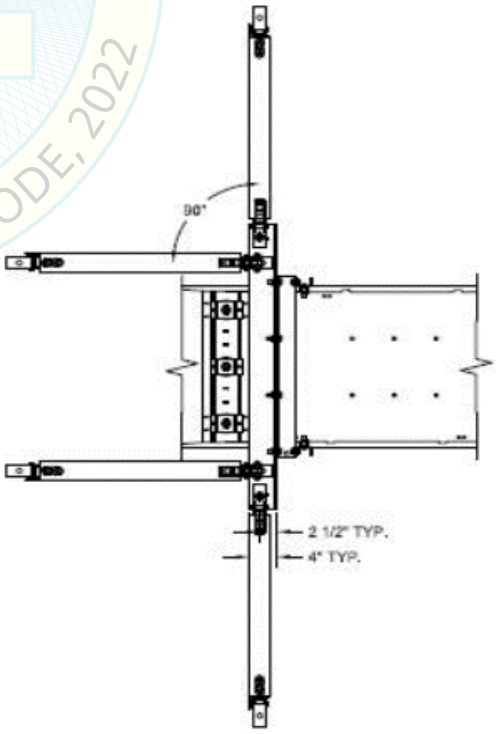
Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

*MASON SRC SEISMIC ROD CLAMPS ARE REQUIRED FOR ROD LENGTH "L" GREATER THAN 23" AND ARE STRONGLY RECOMMENDED FOR SHAKE TABLE TESTING.



PLAN VIEW OF BUSWAY

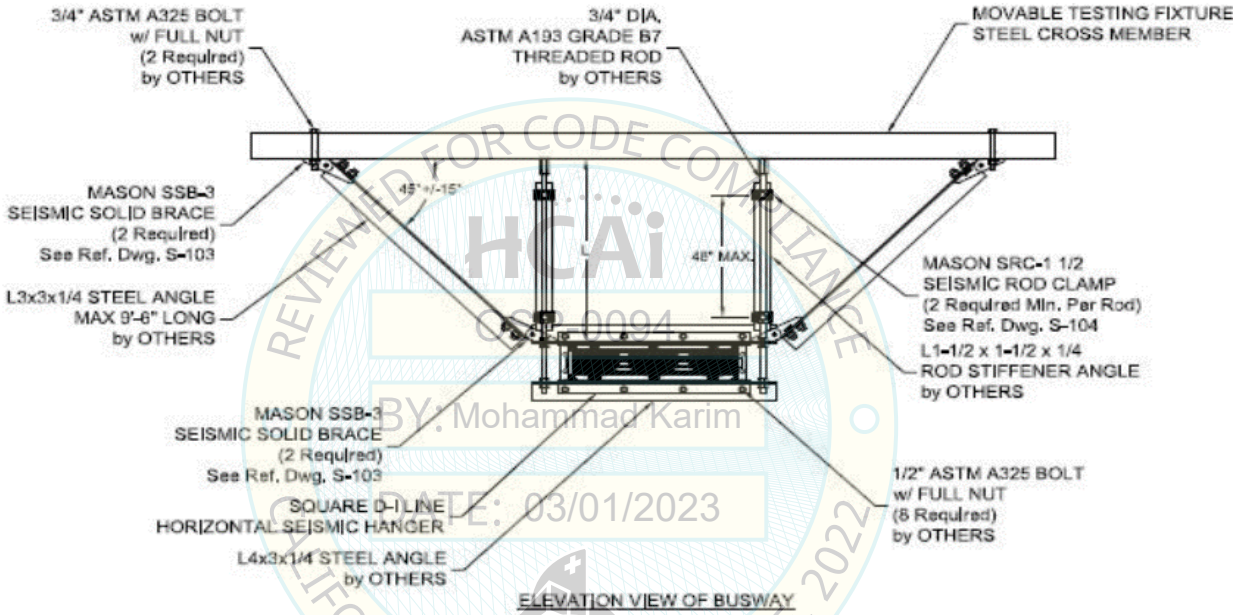
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric		**UUT 9**
Model Line:	I-Line II Busway		
Model Number:	4000A Aluminum, PS, ETB, R-Frame		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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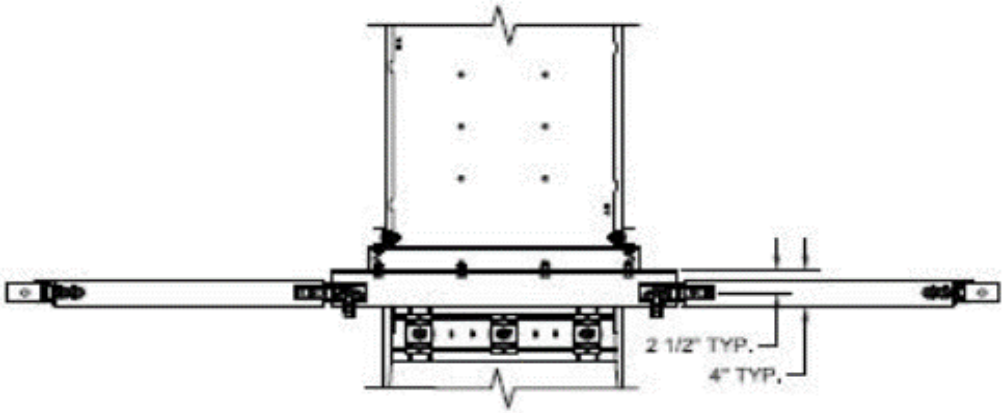


PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 10

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	4000A Aluminum, ETB
Serial Number:	N/A
Test Report:	*UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2,097	210.4	77.9	212.7	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.46	1.0	1.5	3.94	2.95	1.88	0.75
		2.82	0.0					

Product Construction Summary:

Carbon steel construction. Aluminum conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
Vertical:		
4' 4000A Al 4P Feeder Busway	*AF2540G4ST*	*47 /ft*
6' 4000A Al 4P Plug-In Busway	*AP2540G6ST*	*47 /ft*
10' 4000A Al 4P Plug-in Busway	*AP2540G10ST*	*47 /ft*
4000A Al 4P Edgewise Elbow	*AF2540G60LES30 B30*	*249*
End Closure	*ACF-26-EC*	*16*
Horizontal:		
4' 4000A Al 4P Feeder Busway	*AF2540G4ST*	*47 /ft*
6' 4000A Al 4P Plug-in Busway	*AP2540G6ST*	*49 /ft*
4000A Al 4P Flatwise Elbow	*AF2540G60LFS30 B30*	*247*
4000A Al 4P End Tap Box	*AF2540GETBMB*	*371*

Test Mounting Details:

Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 14'.
Horizontal section mounted with 3/4" dia. drop rods spaced at 10'.
Lateral and Longitudinal bracing was included per attached drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

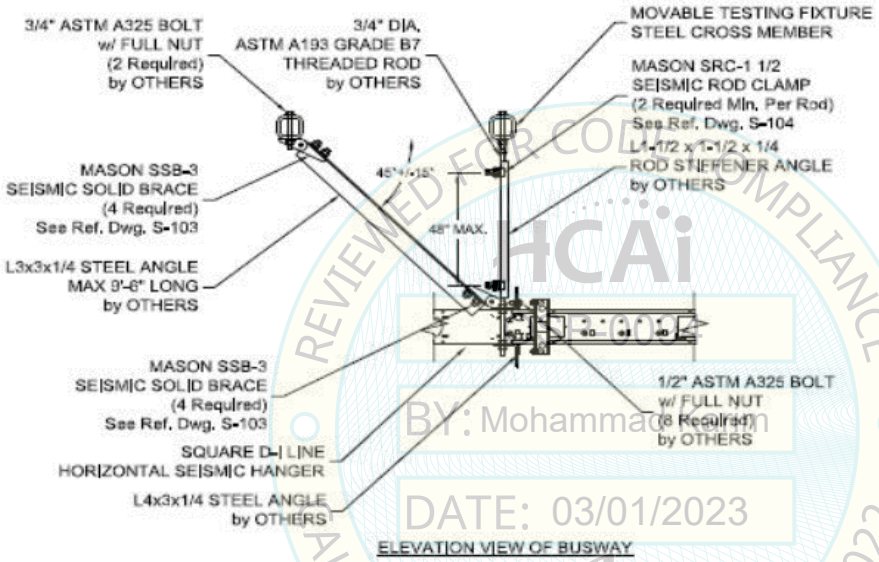
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 10**	
Model Line:	I-Line II Busway		
Model Number:	4000A Aluminum, ETB		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

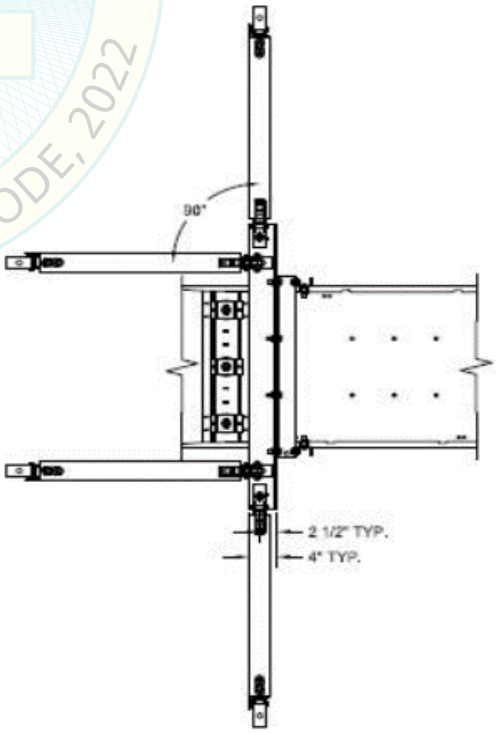
Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

*MASON SRC SEISMIC ROD CLAMPS ARE REQUIRED FOR ROD LENGTH "L" GREATER THAN 23" AND ARE STRONGLY RECOMMENDED FOR SHAKE TABLE TESTING.



PLAN VIEW OF BUSWAY

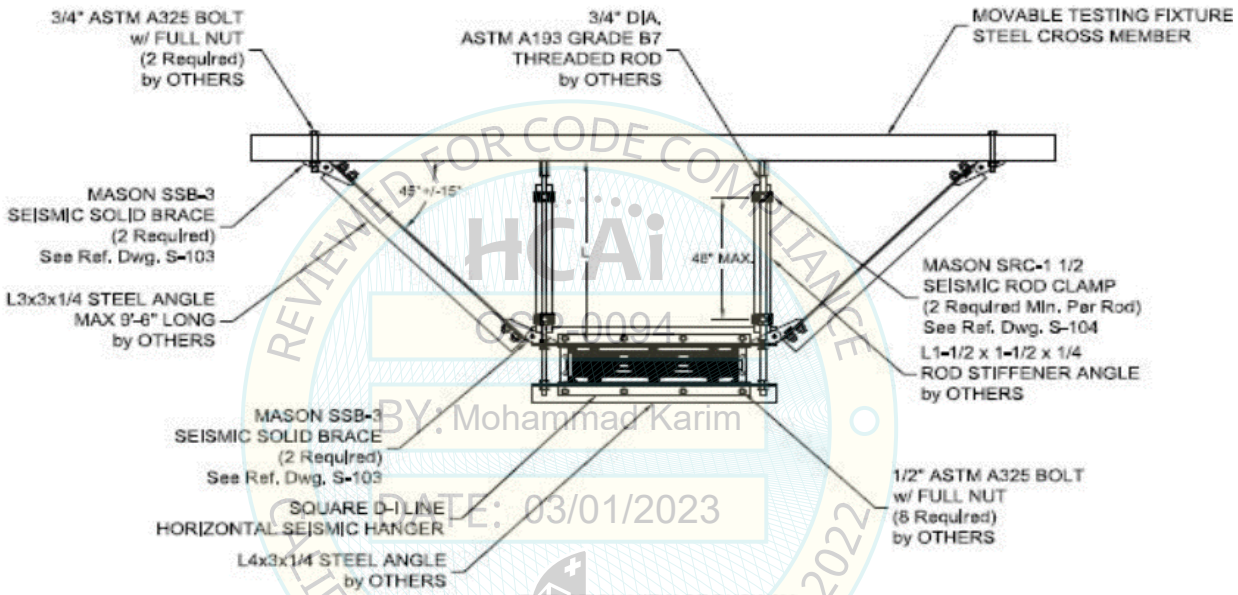
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 10**	
Model Line:	I-Line II Busway		
Model Number:	4000A Aluminum, ETB		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

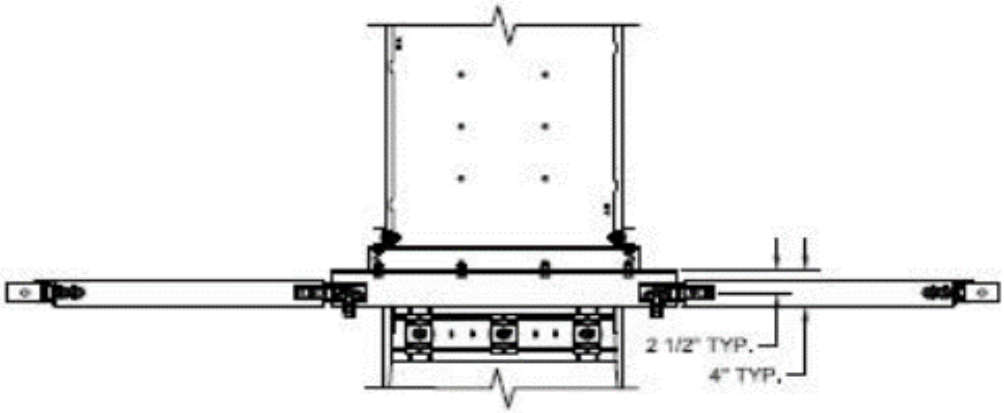
Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

*MASON SRC SEISMIC ROD CLAMPS ARE REQUIRED FOR ROD LENGTH "L" GREATER THAN 23" AND ARE STRONGLY RECOMMENDED FOR SHAKE TABLE TESTING.



PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 12

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	4000A Aluminum Offset, S-Shaped
Serial Number:	N/A
Test Report:	*UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
925	119.5	26.1	100.6	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.12	1.0	1.5	3.39	2.54	1.59	0.64
		2.39	0.0					

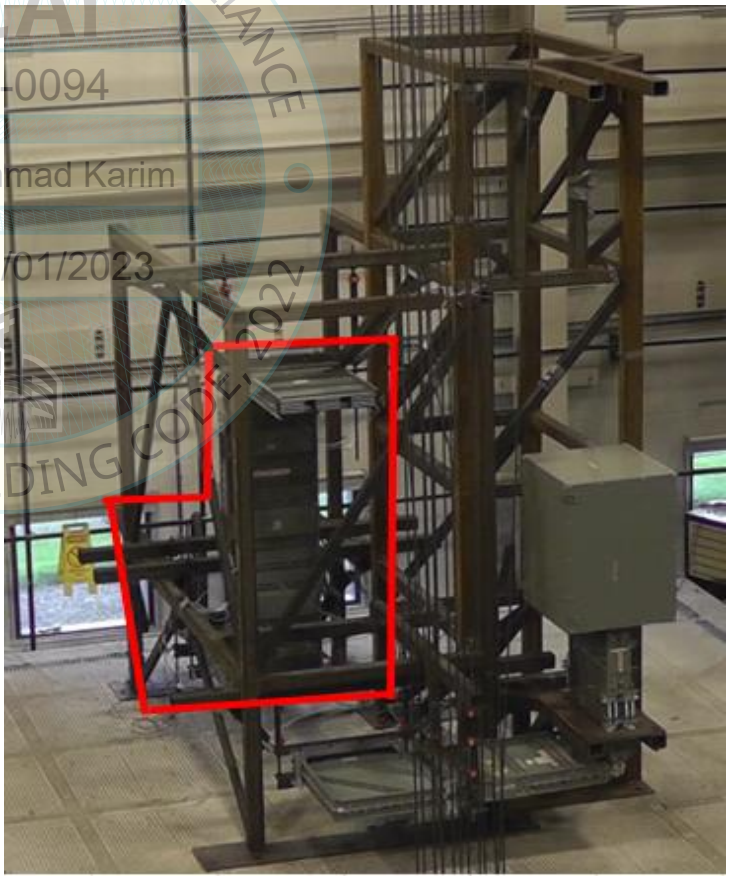
Product Construction Summary:

Carbon steel construction. Aluminum conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
4' 4000A Al 4P Feeder Busway (x2)	*AF2540G4ST*	*47 /ft*
6' 4000A Al 4P Plug-In Busway	*AP2540G6ST*	*49 /ft*
4000A Al 4P Edgewise Elbow (x2)	*AF2540G60LES30 B30*	*249*
End Closure	*ACF-26-EC*	*16*

Test Mounting Details:



Horizontal supports only per provided drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

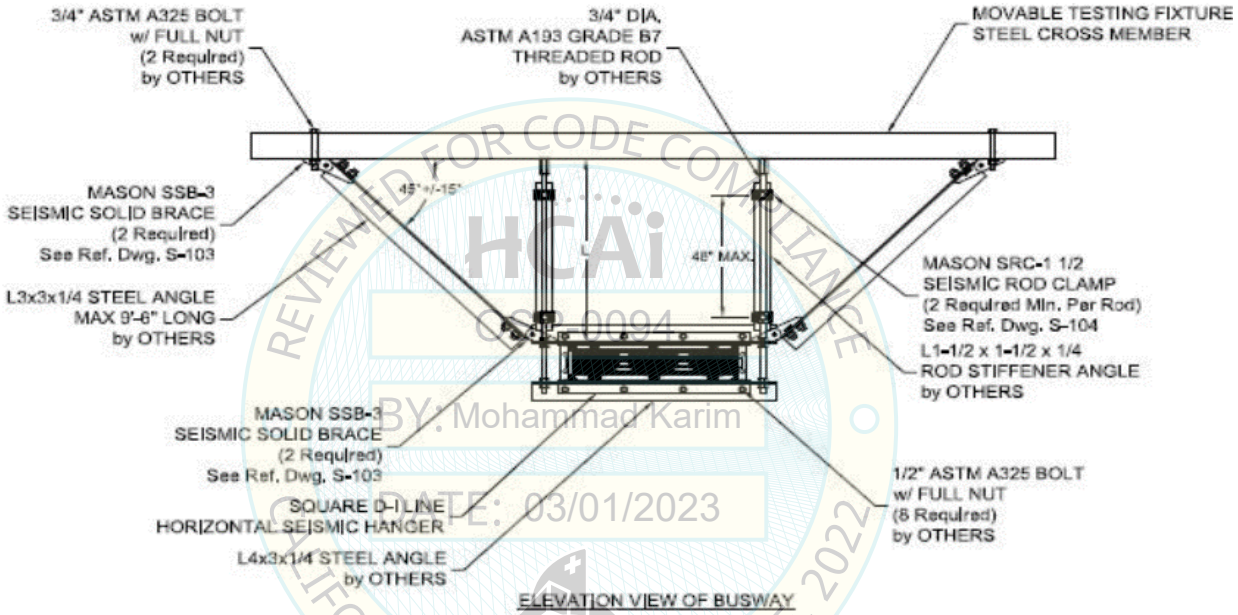
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 12**	
Model Line:	I-Line II Busway		
Model Number:	4000A Aluminum Offset, S-Shaped		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

Test Mounting Details Continued:

TRANSVERSE SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

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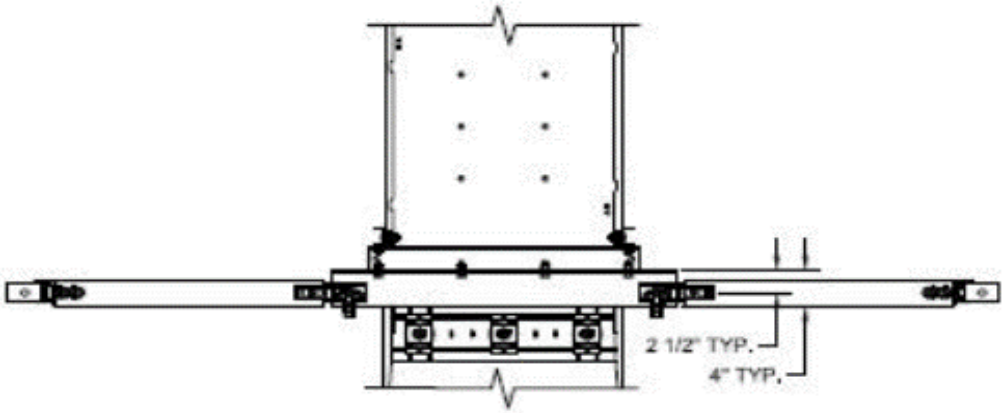


PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 13

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Copper Offset, S-Shaped
Serial Number:	N/A
Test Report:	*UB CSEE/SEESL-2018-03*

UUT Properties

Weight (lb)	Bounding Box Dimensions (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,906	119.5	25.6	100.6	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.11	1.0	1.5	3.38	2.53	1.59	0.64
		2.38	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
4' 5000A Cu 4P Feeder Busway (x2)	*CF2550G4ST*	*98 /ft*
6' 5000A Cu 4P Plug-In Busway	*CP2550G6ST*	*103 /ft*
5000A Cu 4P Edgewise Elbow (x2)	*CF2550G60LES30 B30*	*526*
5000A End Closure	*ACF-25-EC*	*16*

Test Mounting Details:

Horizontal supports only per provided drawing.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

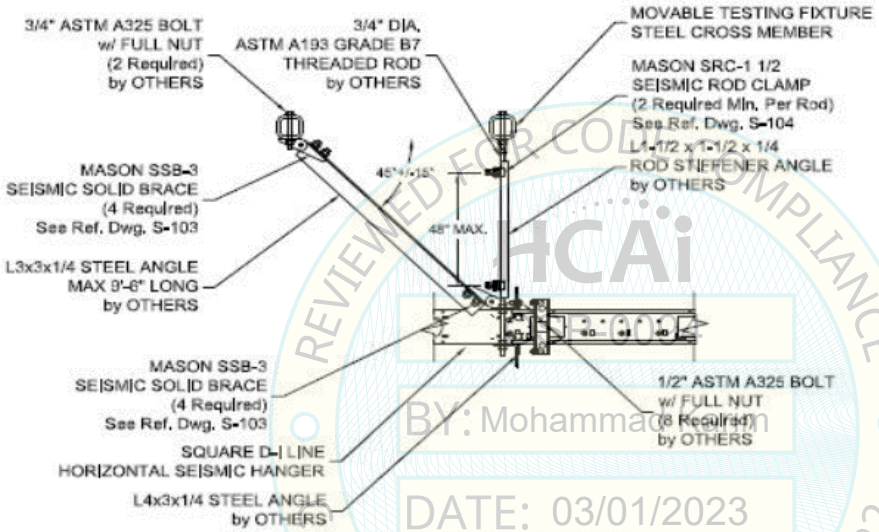
UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric	**UUT 13**	
Model Line:	I-Line II Busway		
Model Number:	5000A Copper Offset, S-Shaped		
Serial Number:	N/A	***Test Report:***	*UB CSEE/SEESL-2018-03*

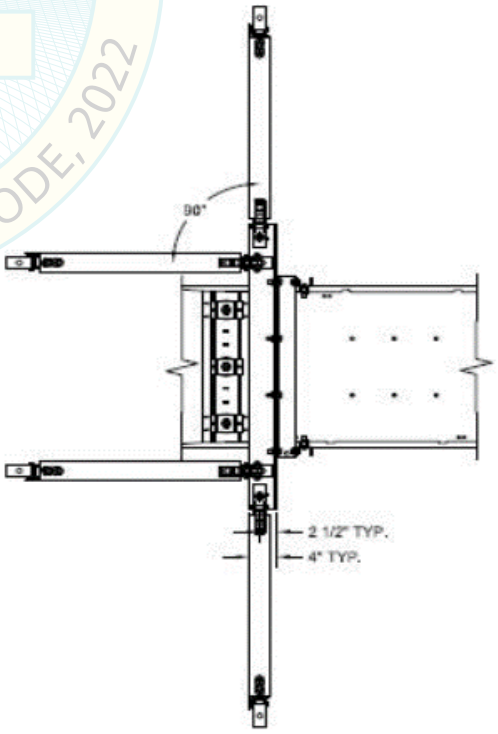
Test Mounting Details Continued:

ALL-DIRECTIONAL SEISMIC SOLID BRACING FOR BUSWAY



ELEVATION VIEW OF BUSWAY

*MASON SRC SEISMIC ROD CLAMPS ARE REQUIRED FOR ROD LENGTH "L" GREATER THAN 23" AND ARE STRONGLY RECOMMENDED FOR SHAKE TABLE TESTING.



PLAN VIEW OF BUSWAY

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Copper, IL2 Flatwise Busway
Serial Number:	25960837

UUT 14

Test Report: *Wyle 56276R08 (UUT1A - run 6)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
4,555	204.0	180.0	32.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.34	1.0	1.5	3.75	2.81	2.50	1.00
		3.75	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Test Mounting Details:

UUT14 was horizontally suspended - rigid using fourteen (14) 1/2-13" Grade 8 threaded rods.
Busway is supported with HF25SH hangers at 10' intervals, with front hangers located adjacent to one side of the flatwise elbows' joints/tie channels (24" from centerline of perpendicular run). Hangers are attached to busway and horizontal structure with1/2" dia. rods. Tap Box and Plug-in Units 400A and larger had additional support via drop rods. UUT listed shake-table attachments includes both Tap Box supports and Busway supports.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' 5000A Copper plug-in Busway (25.1" W x 5.9" H)	*CP2550G10ST*	*95 /ft*
200A PQ Fusible Plug-in Unit	*PQ4620*	*71*
250A J-Frame Breaker Plug-in Unit	*PJD36250GN*	*29*
600A L-Frame Breaker Plug-in Unit	*PBLD36600GNU31X*	*123*
5000A Copper Flatwise elbow	*CF2550G60LFS30B30*	*534*
5000A Copper tap box	*CF2550GETBMB*	*533*
End Closure	*ACF-25-EC*	*16*

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	800A/1000A Copper
Serial Number:	38092699

UUT 16

Test Report: *PR048881-TR-16 (UUT1)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,008	181.0	138.0	6.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.31	1.0	1.5	3.70	2.77	1.54	0.62
		2.31	0.0					

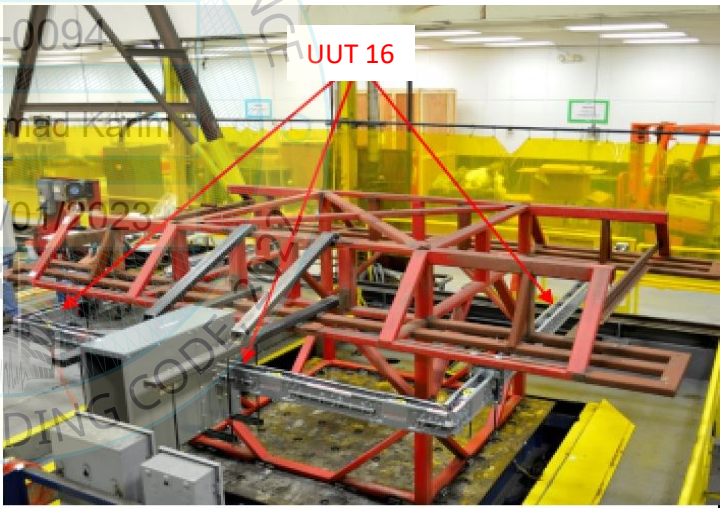
Product Construction Summary:

Carbon steel construction. Copper conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
2' 1000A Cu Feeder Busway (4.3" W x 5.9" H)	*CF2510G2ST*	*19 /ft*
4' 800A Cu Plug-in Busway Section	*CP2508G4ST*	*17 /ft*
6' 800A Cu Plug-in Busway Section	*CP2508G6ST*	*17 /ft*
10' 800A Cu Feeder Busway Section (3.8" W x 5.9" H)	*CF2508G10ST*	*17 /ft*
32" 800A Cu Feeder Busway	*CP2508G32ST*	*17 /ft*
800A Copper Flat Elbow	*CF2508GLFM11*	*106*
800A Copper Edge Elbow	*CF2508GLEM11*	*102*
800A Copper Tap Box	*CF2508GETBMB*	*173*
800A Copper Tee	*CF2508G33TFS11 B11S11*	*47*
1000A to 800A Reducer	*FC2510GR08*	*36*
240kA Surge Suppressor	*PIU8IMA24*	*34*
End Closure (800A and 1000A)	*ACF-38-EC*	*4*

Test Mounting Details:



UUT16 was horizontally suspended - rigid using eight (8) 1/2-13" Grade 8 threaded rods.
Busway is supported with HF38SH and HF43SH hangers at 10' intervals, with front hangers located adjacent to one side of the flatwise elbows' joints/tie channels (18" from centerline of perpendicular run). Hangers are attached to busway and horizontal structure with 1/2" dia. rods. Tap Box has additional support via drop rods. UUT listed shake-table attachments includes both Tap Box supports and Busway supports.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 17

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	4000A Aluminum, ETB, RCTB Plug-In
Serial Number:	N/A
Test Report:	*1901349-TR-001-R0 (UUT30A)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,015	33.0	36.0	172.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.02	1.0	1.5	3.24	2.42	2.16	0.86
		3.24	0.0					

Product Construction Summary:

Carbon steel construction. Aluminum conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' 4000A Aluminum 4P Plug-In Busway	*AP2540G10ST*	*48 /ft*
4000A Aluminum 4P End Tap Box	*AF2540GETBMB*	*371*
1200A Reduced Capacity Tap Box	*PTRC512GM54*	*178*

Test Mounting Details:

UUT17 was vertically suspended - rigid without bracing. Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 78".
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 18

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Copper, ETB, PQ4606 Plug-In
Serial Number:	N/A
Test Report:	*1901349-TR-001-R0 (UUT31A)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,531	28.0	32.0	172.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.02	1.0	1.5	3.24	2.42	2.16	0.86
		3.24	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.
NEMA Type 1 Rated Busway Run Enclosure.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' 5000A Copper 4P Plug-In Busway	*CP2550G10ST*	*99 /ft*
5000A Copper 4P End Tap Box	*CF2550GETBMB*	*533*
Fusible Plug-in Unit	*PQ4606GM54*	*18*

Test Mounting Details:

UUT18 was vertically suspended - rigid without bracing. Vertical section mounted with (2) Schneider HFVS8 vertical spring hangers spaced at 78".
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	4000A Al Horizontal w/320 kA SPD Plug-in Unit
Serial Number:	N/A

UUT 19

Test Report: *2200541-TR-002-R1 (UUT 38)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
700	168.0	25.1	10.9	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.18	1.0	1.5	3.49	2.62	1.52	0.61
		2.28	0.0					

Product Construction Summary:

Carbon steel construction. Aluminum conductor.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
4' Al Indoor Feeder Busway, 4000A, 4P	*AF2540G4ST*	*47 /ft*
10' Al Indoor Plug-in Busway, 4000A, 4P	*AP2540G10ST*	*48 /ft*
SPD PIU - 320kA, 480Y/277V, 3Ph/4W	*PIU4IMA32*	*46*

Test Mounting Details:

UUT19 was horizontally suspended - rigid using four (4) 1/2" Grade 5 bolts and washers. Mounted using (2) sets of Schneider HF25SH seismic hangers spaced at 10'.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Cu Outdoor w/Flat Elbow
Serial Number:	Q2C# 44572174

UUT 20

Test Report: *2200541-TR-001-R1 (UUT 31)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,975	195.6	60.6	5.9	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.10	1.0	1.5	3.36	2.52	1.49	0.60
		2.20	0.0					

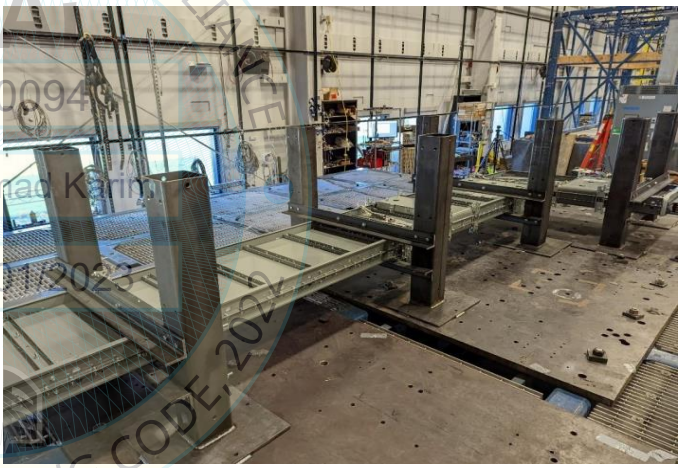
Product Construction Summary:

Carbon steel construction. Copper conductor.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' Straight Cu Outdoor Busway, 5kA	*COF2550G10ST*	*95 /ft*
30" Straight Cu Outdoor Busway, 5kA	*COF2550G30ST*	*95 /ft*
45" Straight Cu Outdoor Busway, 5kA	*COF2550G45ST*	*95 /ft*
Cu Outdoor Flatwise Elbow w/24" legs,5kA, 4P	*COF2550G48LFS24B24*	*425*

Test Mounting Details:



UUT20 was horizontally suspended - rigid without bracing using eight (8) 1/2" Grade 5 bolts and washers. Mounted using (4) sets of Schneider HF25SH seismic hangers spaced at 5'.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	2000A Cu Outdoor w/Flat Elbow
Serial Number:	Q2C# 44572174

UUT 21

Test Report: *2200541-TR-001-R1 (UUT 35)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
755	186.9	51.9	5.9	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.12	1.0	1.5	3.39	2.54	1.49	0.60
		2.23	0.0					

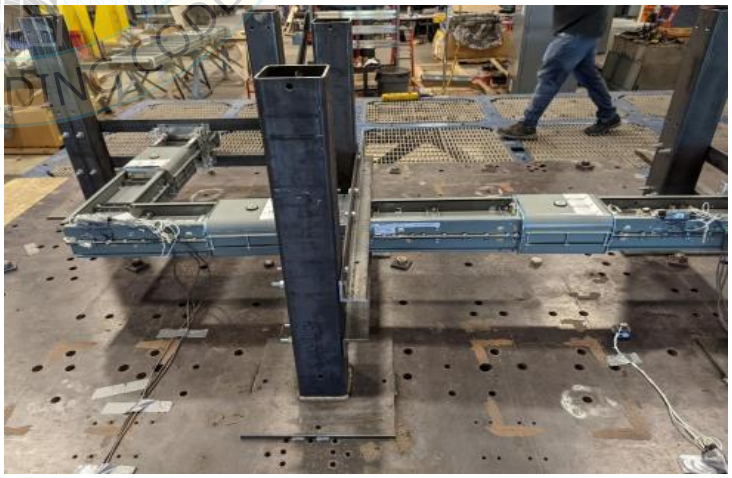
Product Construction Summary:

Carbon steel construction. Copper conductor.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' Straight Cu Outdoor Busway, 2kA	*COF2520G10ST*	*33 /ft*
30" Straight Cu Outdoor Busway, 2kA	*COF2520G30ST*	*33 /ft*
45" Straight Cu Outdoor Busway, 2kA	*COF2520G45ST*	*33 /ft*
Cu Outdoor Flatwise Elbow w/24" legs, 2kA, 4P	*COF2520G48LFS24B24*	*210*

Test Mounting Details:



UUT21 was horizontally suspended - rigid without bracing using eight (8) 1/2" Grade 5 bolts and washers. Mounted using (4) sets of Schneider HF78SH seismic hangers spaced at 5'.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 22

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	2000A Cu Outdoor w/Edgewise Elbow
Serial Number:	Q2C# 44572174
Test Report:	*2200541-TR-001-R1 (UUT 37)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
750	180.1	45.1	7.8	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.13	1.0	1.5	3.41	2.56	1.49	0.60
		2.23	0.0					

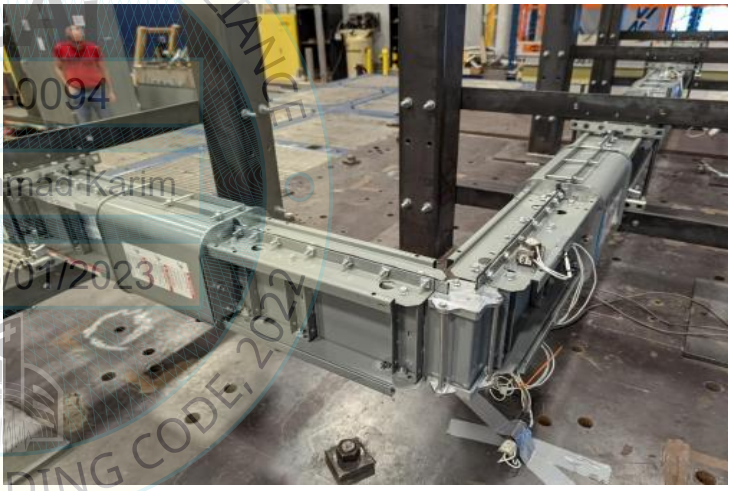
Product Construction Summary:

Carbon steel construction. Copper conductor.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' Straight Cu Outdoor Busway, 2kA	*COF2520G10ST*	*33 /ft*
30" Straight Cu Outdoor Busway, 2kA	*COF2520G30ST*	*33 /ft*
45" Straight Cu Outdoor Busway, 2kA	*COF2520G45ST*	*33 /ft*
Cu Outdoor Edgewise Elbow w/24" legs, 2kA, 4P	*COF2520G48LES 24B24*	*203*

Test Mounting Details:



UUT22 was horizontally suspended - rigid without bracing using sixteen (16) 1/2" Grade 5 bolts and washers. Mounted using (8) sets of Schneider HF78SH seismic hangers spaced at 5'.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Cu Outdoor w/Edgewise Elbow
Serial Number:	Q2C# 44572174

UUT 23

Test Report: *2200541-TR-001-R1 (UUT 33)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,915	180.1	45.1	25.1	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.10	1.0	1.5	3.36	2.52	1.49	0.60
		2.23	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' Straight Cu Outdoor Busway, 5kA	*COF2550G10ST*	*95 /ft*
30" Straight Cu Outdoor Busway, 5kA	*COF2550G30ST*	*95 /ft*
45" Straight Cu Outdoor Busway, 5kA	*COF2550G45ST*	*95 /ft*
Cu Outdoor Edgewise Elbow w/24" legs, 5kA, 4P	*COF2550G48LES 24B24*	*398*

Test Mounting Details:

UUT23 was horizontally suspended - rigid without bracings using sixteen (16) 1/2" Grade 5 bolts and washers. Mounted using (8) sets of Schneider HF25SH seismic hangers spaced at 5'.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	5000A Cu Outdoor Busway
Serial Number:	Q2C# 44572174

UUT 24

Test Report: *2201192-TR-001-R1 (UUT2)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1,967	64.0	25.0	196.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.15	1.0	1.5	3.44	2.58	1.52	0.61
		2.28	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' Straight Cu Outdoor Busway, 5kA	*COF2550G10ST*	*95 /ft*
36" Straight Cu Outdoor Busway, 5kA	*COF2550G3ST*	*95 /ft*
48" Straight Cu Outdoor Busway, 5kA	*COF2550G4ST*	*95 /ft*
Cu Outdoor Edgewise Elbow w/24" legs, 5kA, 4P	*COF2550G48LES 24B24*	*365*

Test Mounting Details:

UUT24 was vertically suspended - rigid without bracing using eighteen (18) 1/2" Grade 5 bolts and washers. Vertical section mounted with (2) Schneider HF-V vertical hangers spaced at 5'. Horizontal section mounted using 1 set of Schneider HF25SH seismic hangers.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 1700818

UUT 25

Manufacturer:	Square D by Schneider Electric
Model Line:	I-Line II Busway
Model Number:	2000A Cu Outdoor Busway
Serial Number:	Q2C# 44572174
Test Report:	*2201192-TR-001-R1 (UUT3)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
782	66.0	7.8	192.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S_{DS}(g)	z/h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022	ICC-ES AC156	2.12	1.0	1.5	3.39	2.54	1.55	0.62
		2.33	0.0					

Product Construction Summary:

Carbon steel construction. Copper conductor.

Options/Subcomponent Summary:

Description	*Part Number*	*Weight (lbs.)*
10' Straight Cu Outdoor Busway, 2kA	*COF2520G10ST*	*33 /ft*
36" Straight Cu Outdoor Busway, 2kA	*COF2520G3ST*	*33 /ft*
48" Straight Cu Outdoor Busway, 2kA	*COF2520G4ST*	*33 /ft*
Cu Outdoor Edgewise Elbow w/24" legs, 2kA, 4P	*COF2520G48LES 24B24*	*154*

Test Mounting Details:

UUT25 was vertically suspended - rigid without bracing using eighteen (18) 1/2" Grade 5 bolts and washers. Vertical section mounted with (2) Schneider HF-V vertical hangers spaced at 5'. Horizontal section mounted using 1 set of Schneider HF78SH seismic hangers.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.