

MANUAL SHADE SCHEDULE (TOP DOWN SHADES)

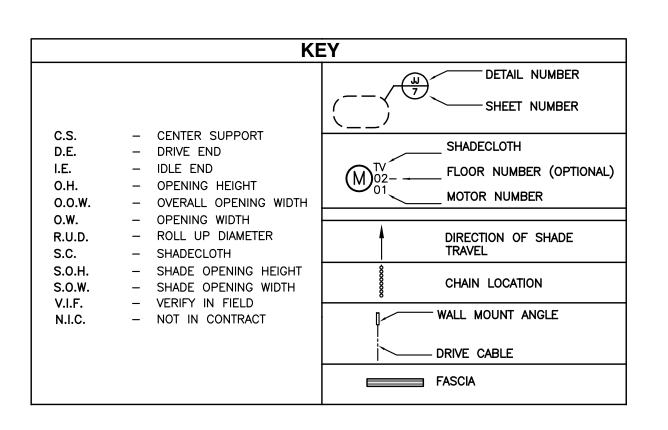
ITEM	QTY.	Ү. ТҮРЕ	SHAPE	SIZE		ARCHITECTURAL	RUD	ARCH.	CHAIN LOC.	DEMARKS
				S.O.W. (v.i.f.)	S.O.H. (v.i.f.)	SHEET	KUD	HEAD DET.	CHAIN LOC.	REMARKS
1	6	В	RECTANGLE	96"	87 1/2"	A9.02	2"	H/A9.02	RIGHT	RAILROADED
2	2	G	RECTANGLE	55 1/4"	83 1/2"	A9.02	2"	J/A9.02	RIGHT	VERTICAL
3	1	Н	RECTANGLE	84"	83 1/2"	A9.02	2"	J/A9.02	RIGHT	RAILROADED
TOTAL	9									

ELECTRO SHADE SCHEDULE (TOP DOWN SHADES)

	QTY.	TYPE	SHAPE	SIZE		ARCHITECTURAL		ARCH.		
ITEM				S.O.W. (v.i.f.)	S.O.H. (v.i.f.)	SHEET	RUD	HEAD DET.	MOTOR LOC.	REMARKS
4	1	J	RECTANGLE	56"	80"	A9.02	2 13/16"	J/A9.02	LEFT	VERTICAL
·	1		RECTANGLE	56"	80"	A9.02	2 13/16"	J/A9.02	RIGHT	VERTICAL
5	1	К	RECTANGLE	84"	80"	A9.02	2 13/16"	J/A9.02	RIGHT	RAILROADED
6	1	14/10	IRREGULAR	110"	81"	A9.02	2 13/16"	H/A9.02	LEFT	RAILROADED
6	1	L1/L2	IRREGULAR	110"	81"	A9.02	2 13/16"	H/A9.02	RIGHT	RAILROADED
7	1	М	RECTANGLE	84"	81"	A9.02	2 13/16"	H/A9.03	RIGHT	RAILROADED
TOTAL	6				•	•				

ELECTRO SHADE SCHEDULE (BOTTOM UP SHADES)

ITEM	QTY.	TYPE	SHAPE	SIZE		ARCHITECTURAL	RUD	ARCH.	MOTOR LOC.	REMARKS
I I CIVI	QII.	TIPE	SHAPE	S.O.W. (v.i.f.)	S.O.H. (v.i.f.)	SHEET	KUD	HEAD DET.	MOTOR LOC.	REWARNS
	1		RECTANGLE	96"	123 1/2"	A9.02	3"	H/A9.02	RIGHT	RAILROADED
8	1	А	RECTANGLE	96"	123 1/2"	A9.02	3"	H/A9.02	LEFT	RAILROADED
O	1	A	RECTANGLE	96"	123 1/2"	A9.02	3"	H/A9.02	RIGHT	RAILROADED
	1		RECTANGLE	96"	123 1/2"	A9.02	3"	H/A9.02	LEFT	RAILROADED
9	1	C1/C2	TRIANGLE	96"	123 1/2"	A9.02	3"	H/A9.02	LEFT	RAILROADED
9	1	C1/C2	TRIANGLE	96"	123 1/2"	A9.03	3"	H/A9.03	RIGHT	RAILROADED
10	1	- D1/D2	TRIANGLE	96"	91 1/2"	A9.02	2 7/8"	G/A9.02	LEFT	RAILROADED
10	1		TRIANGLE	96"	91 1/2"	A9.02	2 7/8"	G/A9.02	RIGHT	RAILROADED
11	1	_	RECTANGLE	48"	91 1/2"	A9.02	2 7/8"	G/A9.02	LEFT	RAILROADED
11	1	E	RECTANGLE	48"	91 1/2"	A9.02	2 7/8"	G/A9.02	RIGHT	RAILROADED
40	1	F	RECTANGLE	48"	111 3/4"	A9.02	2 15/16"	G/A9.02	LEFT	RAILROADED
12	1	F	RECTANGLE	48"	111 3/4"	A9.02	2 15/16"	G/A9.02	RIGHT	RAILROADED
40	1	NIA/NIO	TRIANGLE	113 5/8"	73"	A9.02	2 13/16"	H/A9.02	LEFT	RAILROADED
13	1	N1/N2	TRIANGLE	113 5/8"	73"	A9.02	2 13/16"	H/A9.02	RIGHT	RAILROADED
14	1	0	RECTANGLE	84"	73"	A9.02	2 13/16"	H/A9.02	RIGHT	RAILROADED
TOTAL	15									



1 — ALL DIMENSIONS AND JOB CONDITIONS TO BE FIELD VERIFIED BY DEALER BEFORE FABRICATION. 2 — ALL MATERIALS, COLORS, FINISHES, ETC. ARE TO BE MechoShade STANDARDS UNLESS OTHERWISE NOTED.

3 - MechoShade Systems, Inc. RESERVES THE RIGHT TO MAKE DESIGN MODIFICATIONS AND TECHNICAL CHANGES WITHOUT PRIOR NOTICE. 4 - BLACKOUT SHADECLOTH TO BE No. 0700 SERIES - 72" WIDTH - RAILROADED WIDTH FOR HEIGHT WITH SEAM/BATTEN AS SHOWN ON ABOVE ELEVATION -- STANDARD MechoShade COLOR AS APPROVED BY ARCHITECT.

SHOP DRAWING DIMENSIONS

HARDWARE SIZES
ROLL DIAMETER SIZES ± 1/32" (0.79mm) ± 1/8" (3,18mm) ± 3/16" (4.76mm)

SHADE BANDS:

ROLL DIAMETER SIZES ± 1/8 (3,161111)

SHADE BANDS:

RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents. Shop drawings are for typical details and shade locations only. Final sizes are not included.

All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing.

Blocking is Not In Contract.

FILE NAME: M:\M-2825EMB Yale School of Forestry\SHOP DRAWINGS\LOCATION PLAN.dwg

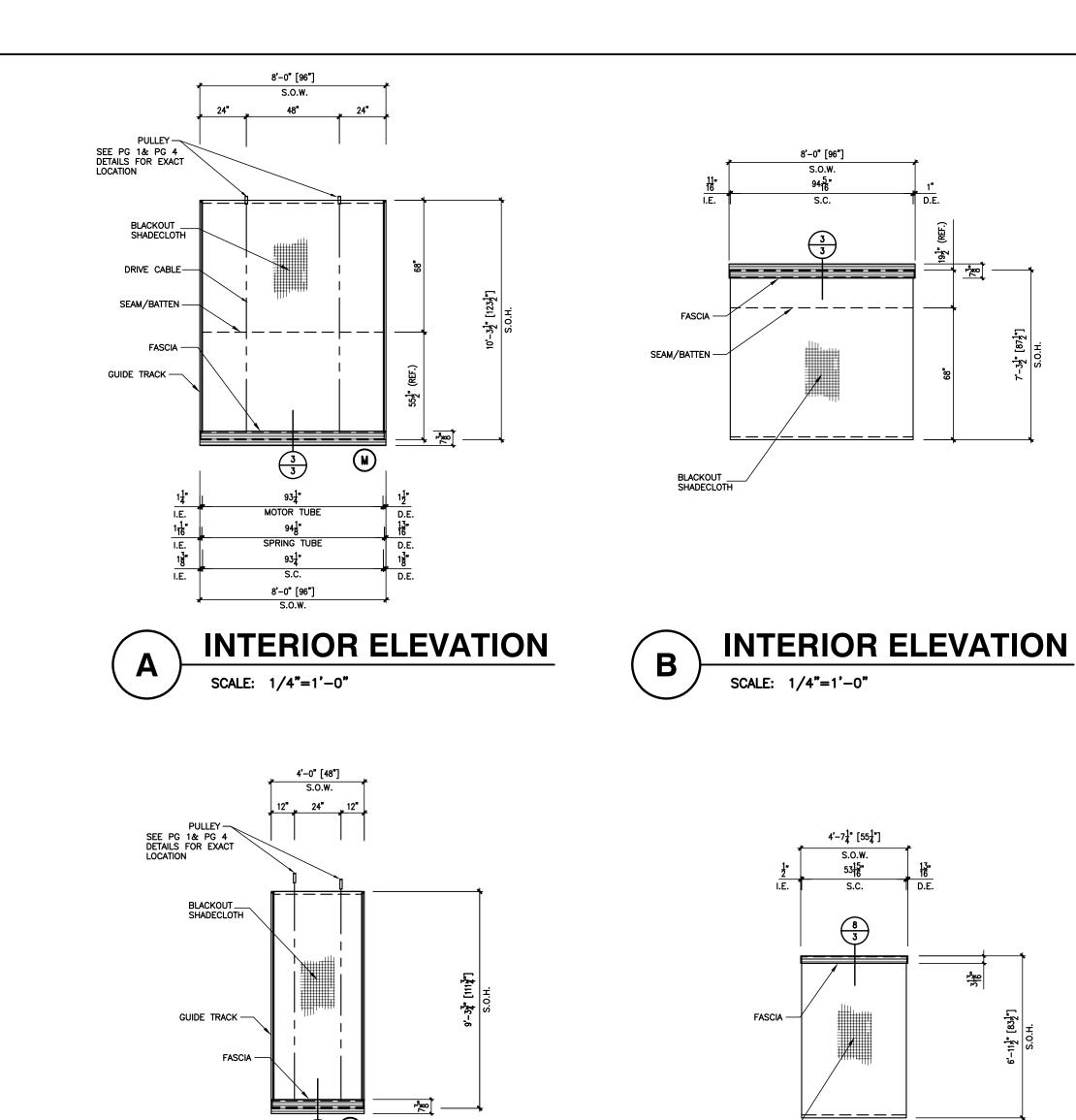
4					
3				99	MechoShad
2					42-03 351 Long Island
1					Tel: 718–7
NO.	DATE	DESCRIPTION	BY		Fax: 718-
				1	

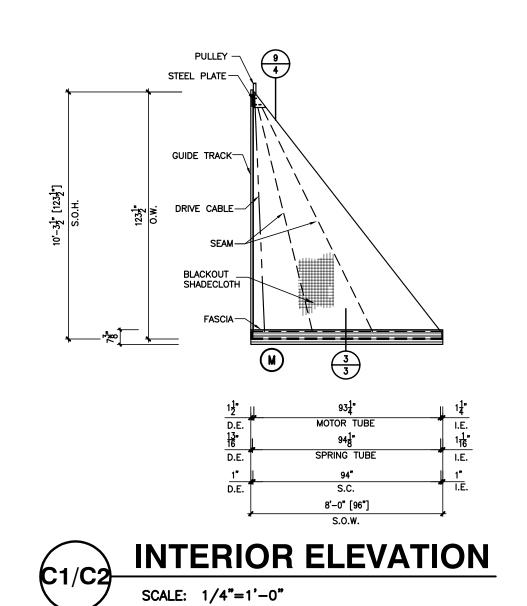
				JOB	YALE SCHOOL OF FORESTI
	00	MechoShade Syst	ems, Inc.		NEW HAVEN, CT
		42-03 35th Stre Long Island City,	NY 11101	TITLE	PROPOSED DETAILS
		Tel: 718-729-20			"ELECTRO" SHADES
,	••	Fax: 718-729-29	941	CÊNTE	ECT RBROOK ARCHITECTS AND PLA
	Copyright © 20	07 MechoShade	Systems In	C. DEALER	DRAPERIES INC.

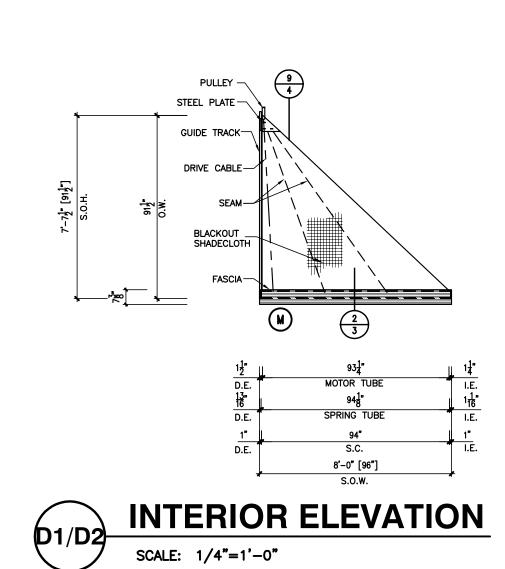
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c.	NEW HAVEN, CT	JOB NO. 384145
01	PROPOSED DETAILS	PROPOSAL NO. 148272-0-3
01	"ELECTRO" SHADES	DATE SCALE AS NOTED
	CENTERBROOK ARCHITECTS AND PLANNERS, LLC	DWN. BY B.F. CKD. BY Z.D.
s Inc.	DRAPERIES INC.	SHEET NO. 1 OF 8

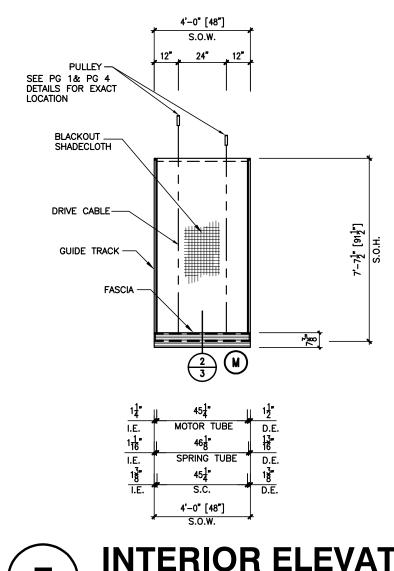
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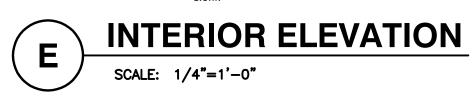
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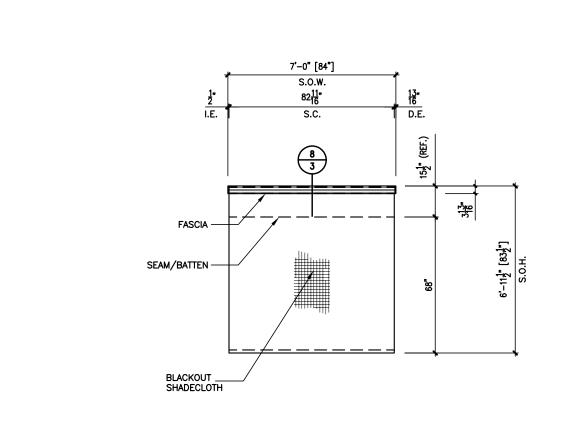


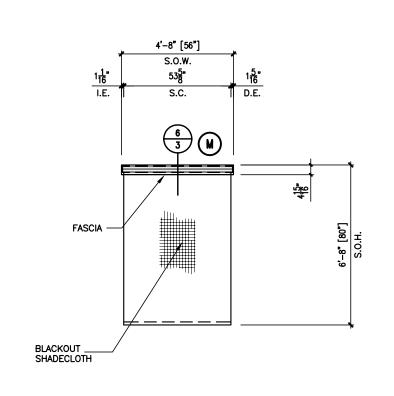


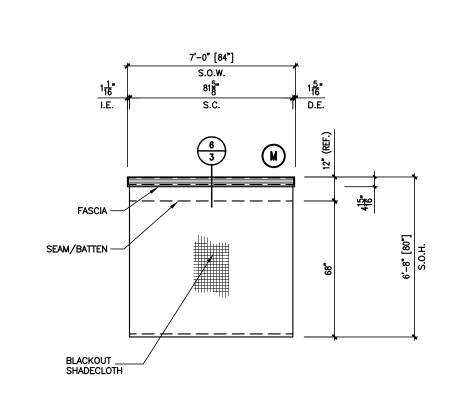


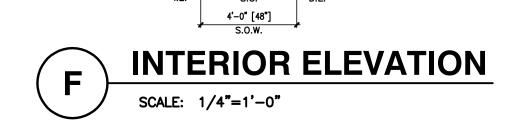




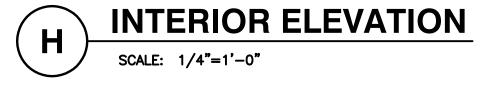


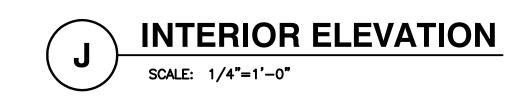




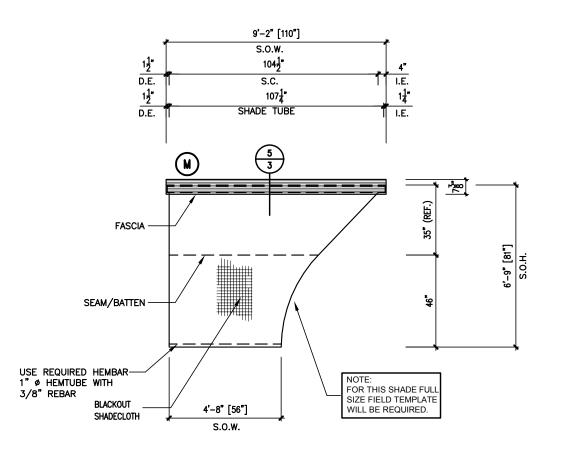


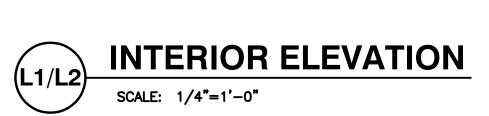


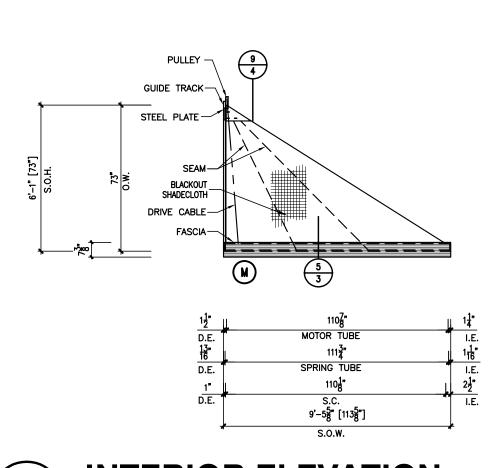




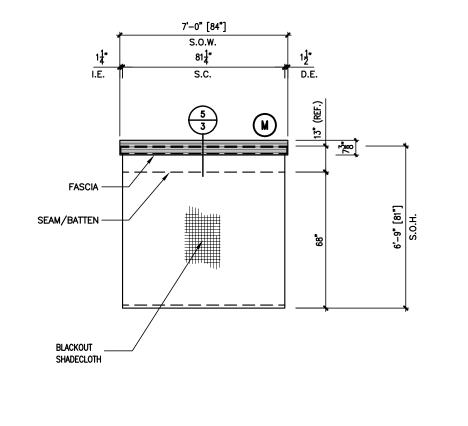




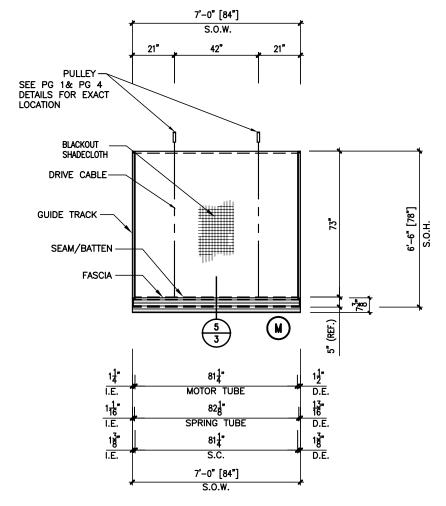








NA	INTERIOR ELEVATION
IVI	SCALE: 1/4"=1'-0"



3.0. 11 .
INTERIOR ELEVATION
SCALE: 1/4"=1'-0"

		KEY
c.s.	_	CENTER SUPPORT
D.E.	_	DRIVE END
I.E.	_	IDLE END
0.H.	_	OPENING HEIGHT
0.0.W.	_	OVERALL OPENING WIDTH
O.W.	_	OPENING WIDTH
R.U.D.	_	ROLL UP DIAMETER
S.C.	_	SHADECLOTH
S.O.H.	_	SHADE OPENING HEIGHT
S.O.W.	_	SHADE OPENING WIDTH
V.I.F.	_	VERIFY IN FIELD
N.I.C.	_	NOT IN CONTRACT

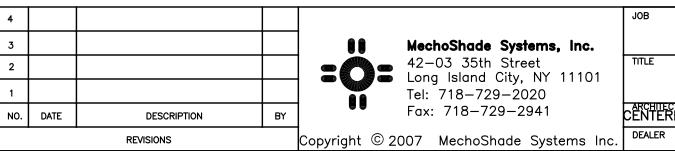
SEE SHEET #1

SHOP DRAWING DIMENSIONS HARDWARE SIZES ROLL DIAMETER SIZES
SHADE BANDS:

EDGE CLEARANCE

± 1/32" (0.79mm) ± 1/8" (3,18mm) ± 3/16" (4.76mm)

RollerShade width and height dimensions (W x HT) are approximate, subject to final field dimensions to be scheduled by the Dealer/Contractor and provided to MechoShade Systems for fabrication in accordance with Contract Documents. Shop drawings are for typical details and shade locations only. Final sizes are not included.
All blocking and supports are shown for reference only. Blocking design is not included in this Shop Drawing. Blocking is Not In Contract. FILE NAME: M:\M-2825EMB Yale School of Forestry\SHOP DRAWINGS\Elevations.dwg



REVISIONS

88	MechoShade Systems,	l
	42-03 35th Street Long Island City, NY 1	1
90	Tel: 718-729-2020 Fax: 718-729-2941	

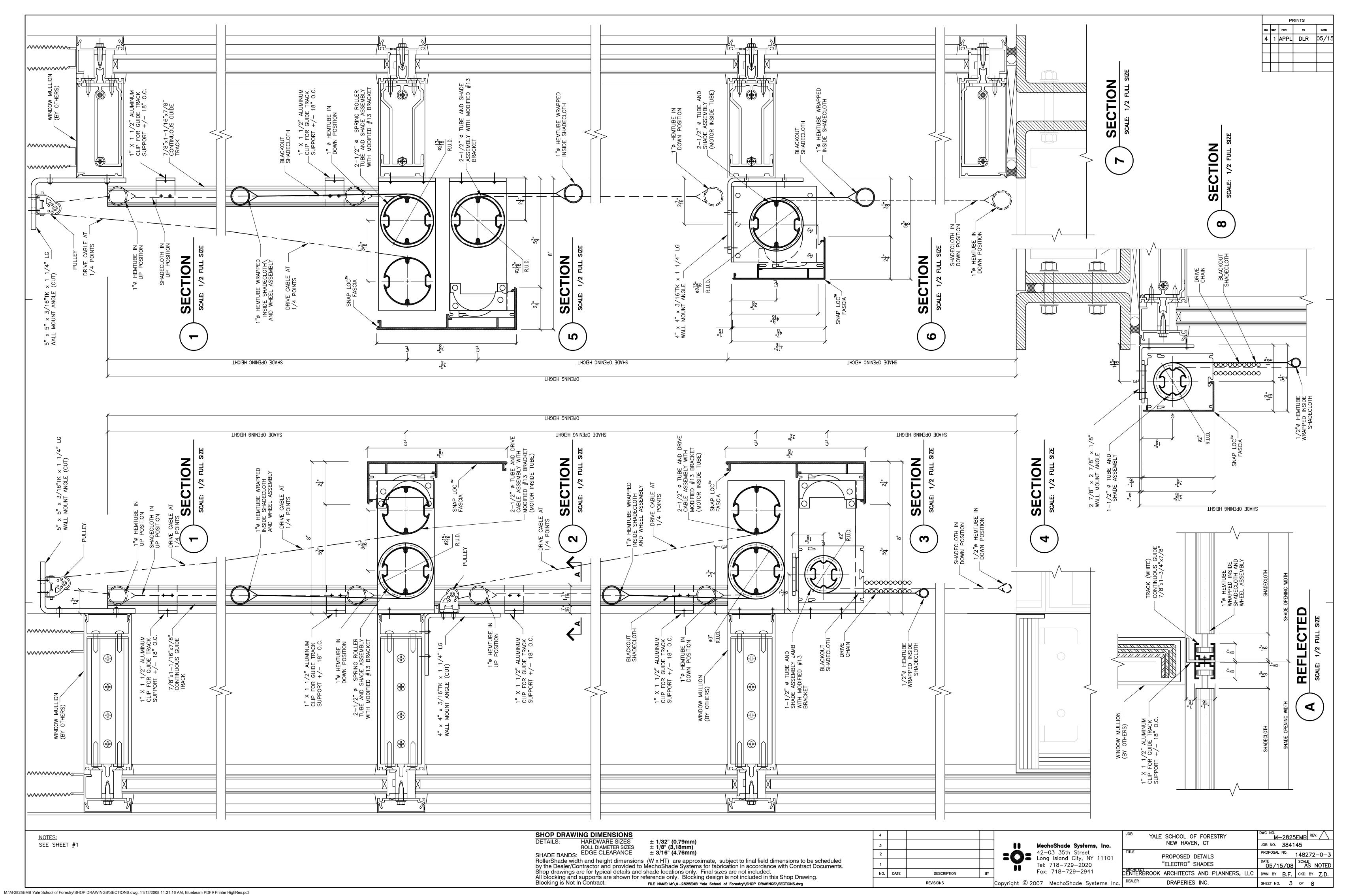
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Systems, Inc.	NEW HAVEN, CT	JOB NO. 384145
Street City, NY 11101	PROPOSED DETAILS	PROPOSAL NO. 148272-0-3
9-2020	"ELECTRO" SHADES	DATE SCALE AS NOTED
29–2941	CENTERBROOK ARCHITECTS AND PLANNERS, LLC	DWN. BY B.F. CKD. BY Z.D.

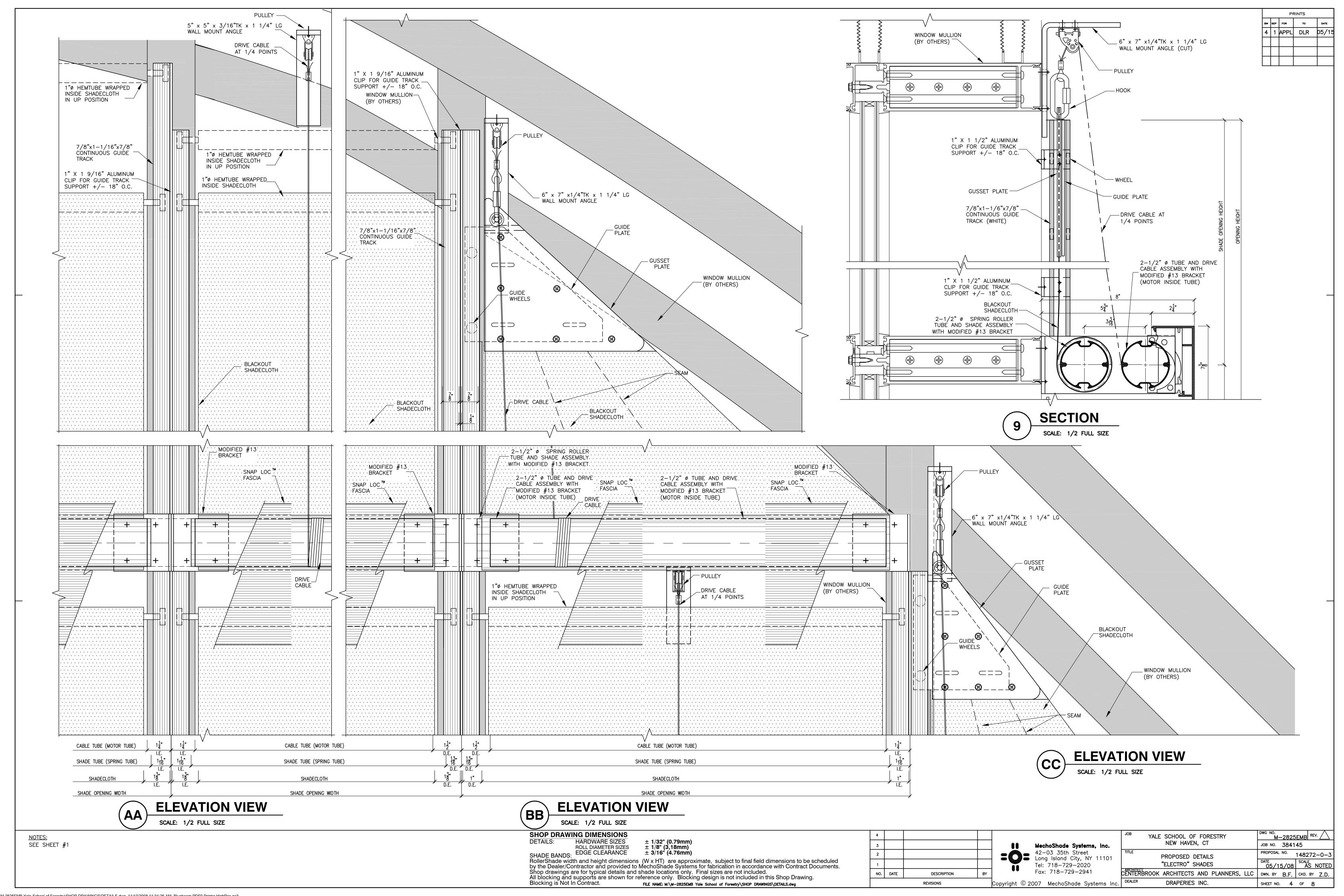
DRAPERIES INC.

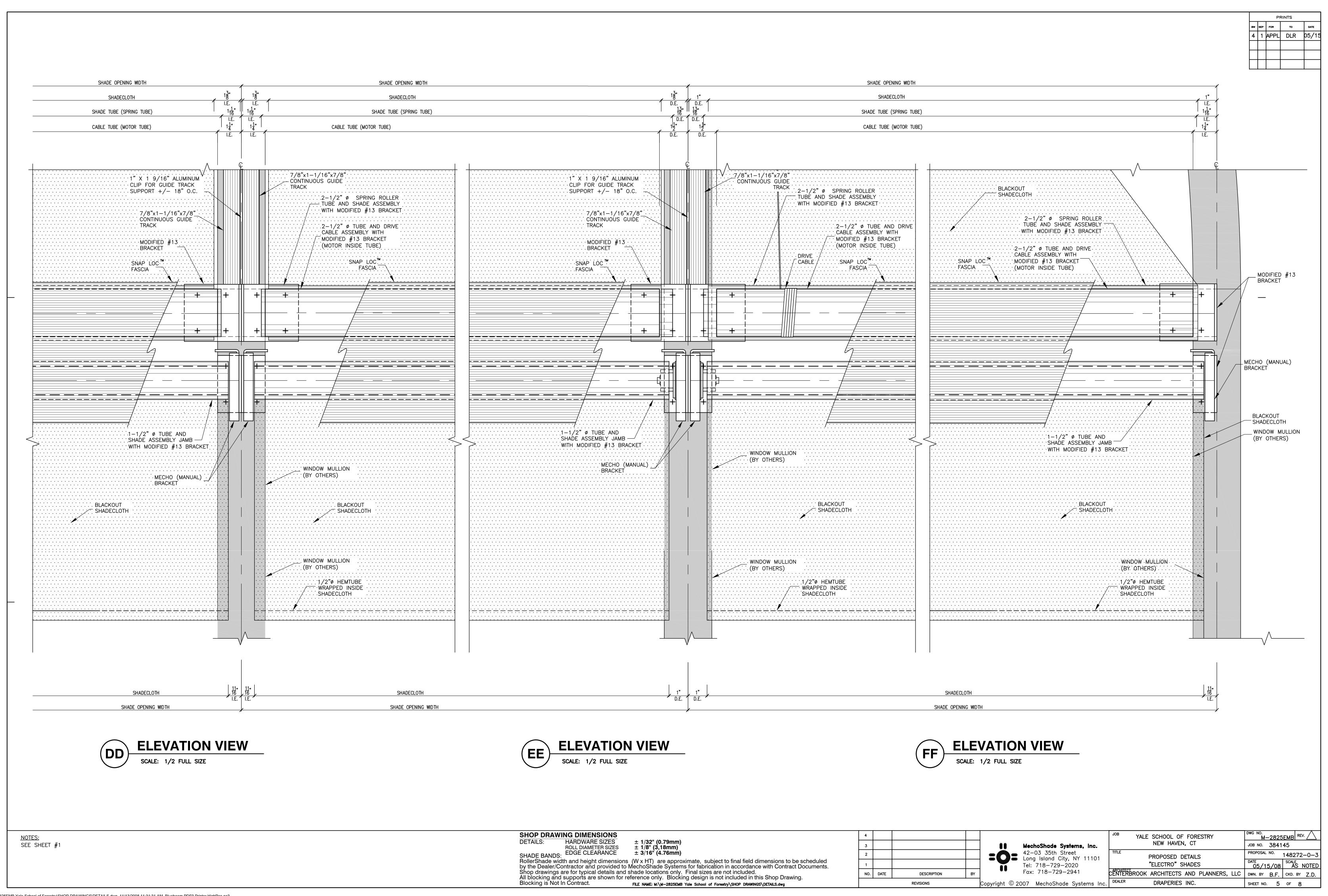
SHEET NO. 2 OF 8

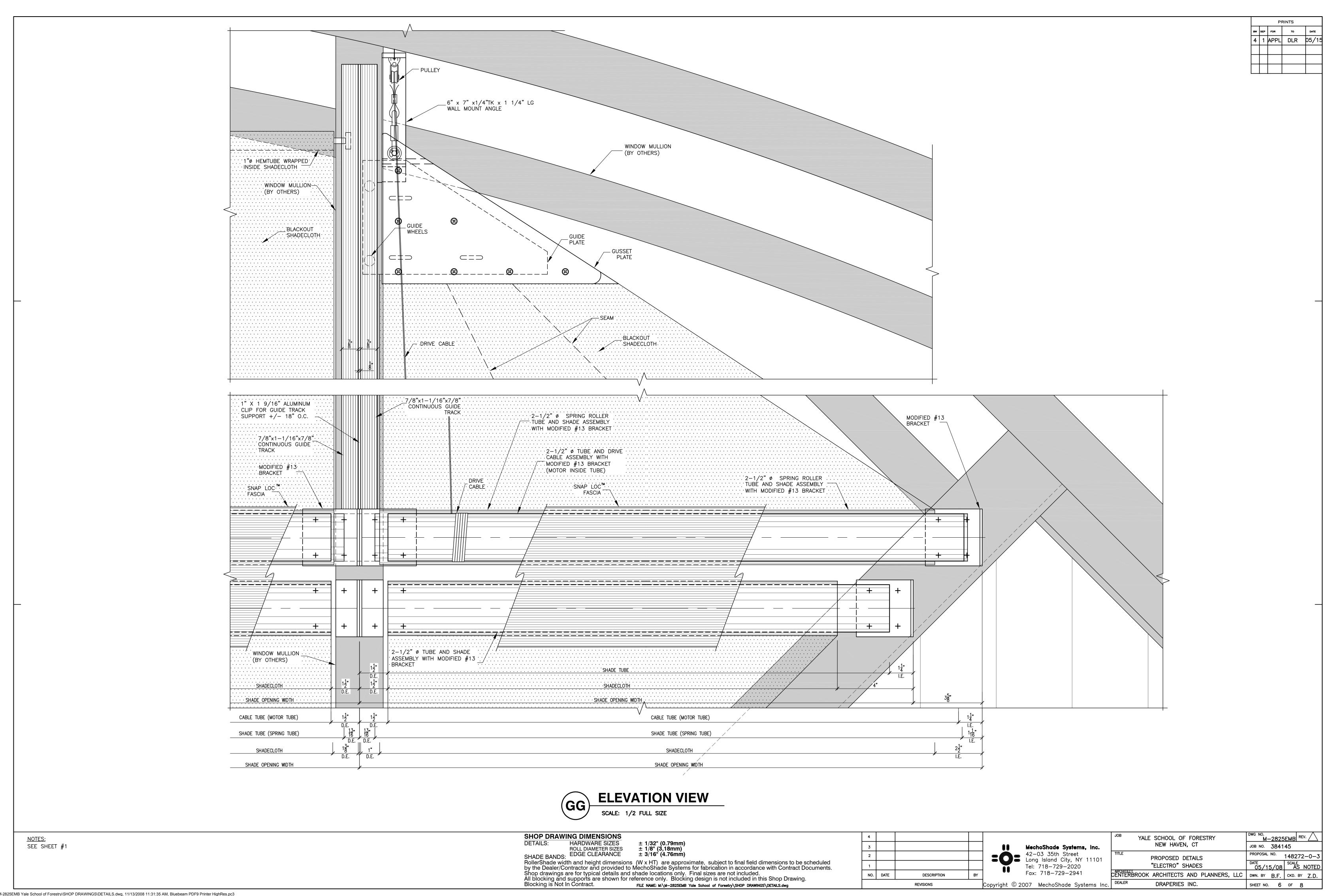
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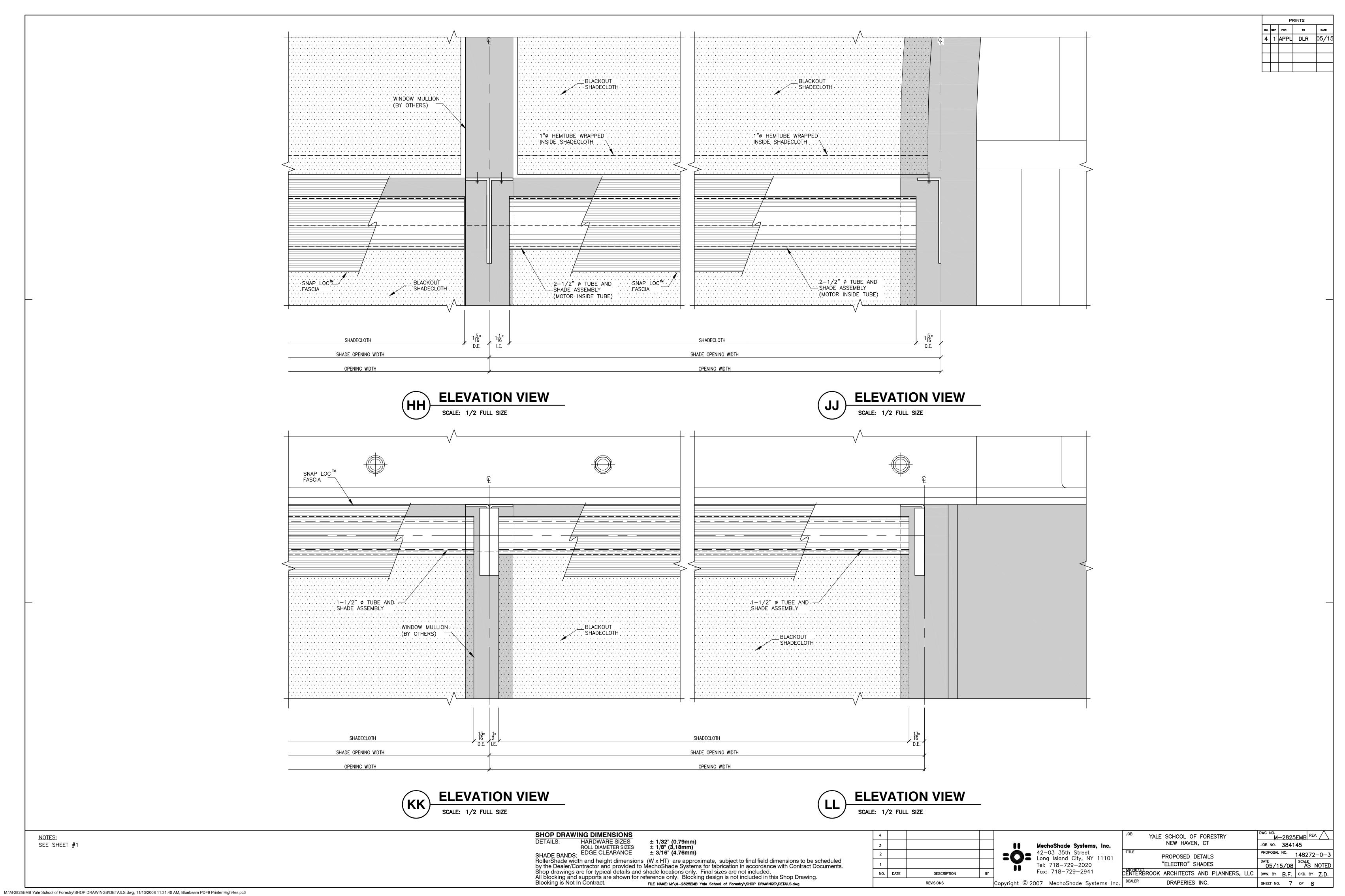
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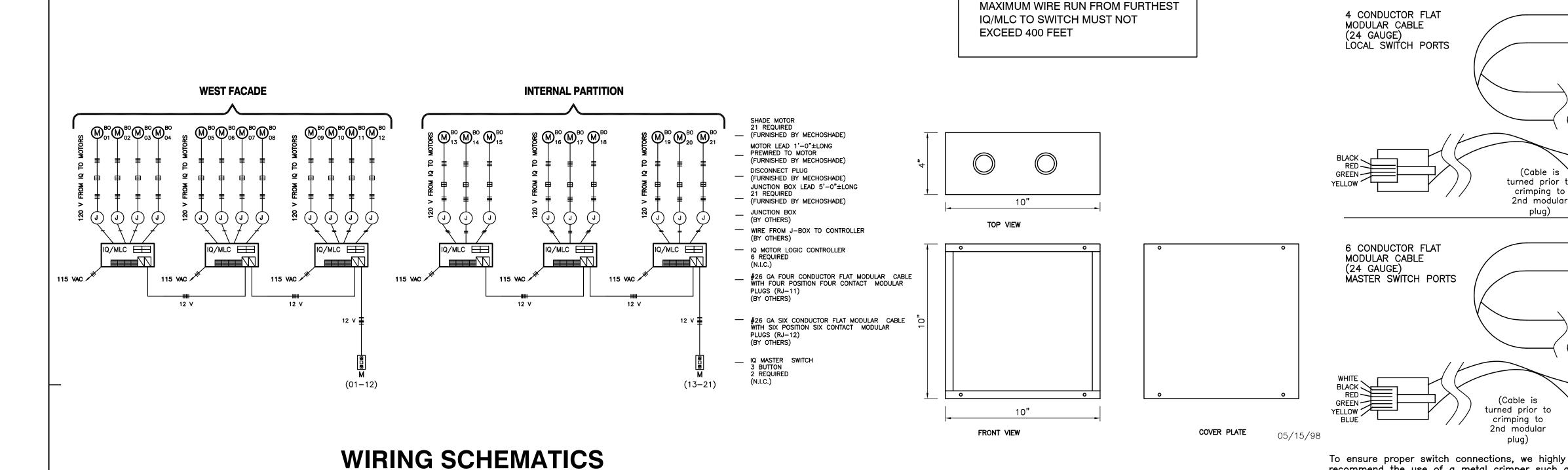












NOTE:

MOTOR #3 JUNCTION BOX

(USED FOR IQ/MLC)

MOTOR #4

10"x10"x4" SCREW COVER BOX

recommend the use of a metal crimper such as the Weidmuller Stripper/Crimper or AMP Crimping Tool

P/N 2-231652-8

Crimping Instructions for IQ/MLC

All electrical—control equipment (switches, MLCs, SACs, WACs, photocells, anemometers, FTS units, etc.) as indicated is furnished only by MechoShade ™Systems, Inc., installed and wired by the

STANDARD ELECTRICAL NOTES

turned prior to crimping to 2nd modular

turned prior t

crimping to

2nd modular

All electrical—control equipment must be wired in accordance with the wiring diagrams prepared by MechoShade Systems and in accordance with the N.E.C. and local codes.

Except for I-Con Intelligent motor and / or RTS motor, parallel and/or series wiring of two or more motors on similar poles on a single switch or any other similar combination will void any applicable warranty and cause premature motor burnout.

For I-Con Intelligent motor and / or RTS motor, parallel and/or series wiring is allowed up to maximum circuit capacity

All wiring diagrams have been prepared for right-hand motors, regular roll or left-hand motors, reverse roll which are wired similarly. Right-hand motors, reverse roll and left-hand motors, regular roll require switching the red and black motor wires at the MLC (Motor-Logic Controllers) or the switch. This will prevent the motors from running in opposite directions.

All control equipment, such as MLCs (Motor-Logic Controllers), SACs/WACs (Sun-Activated Controllers/Wind Activated Controllers), AACs (astronomical Controllers), and all equipment that may have a transformer for low voltage must be wired in phase. If not in phase, premature transformers and/or motor burnout and inconsistent control operation may occur.

Electrical—control equipment may contain electromechanical relays, adjustment points, fuses, indicator lights, and other devices. These must be conveniently accessible for future servicing and adjustments during normal working hours and without disruption to the existing operations. This equipment shall be coded by the Electrical Contractor indicating shade locations and the specific motors which are controlled, and it shall be coded at the control equipment and circuit breaker.

Green motor wires are to be fastened to grounded junction boxes, conduits, or another suitable building ground. STANDARD (BI-DIRECTIONAL) MOTORS

The standard ElectroShade —motor lead is a PVC 4 conductor #18 stranded cable approximately one foot (305mm) long with a 4 conductor disconnect—plug.

The standard ElectroShade[™] <u>furnished—only</u> junction—box lead is the same type as the motor lead and has a plug compatible to it. This lead is approximately five-feet (1525 mm) long. One or two motors can be wired on a single (double-pole, double-throw) switch. Please refer to Drawing No. M-160 for point-to-point connection. However, three or four motors wired to a single switch require the use of an MLC; five to eight motors require two MLCs; nine to 12 require three; and so forth. See Drawings No. M145 and M146.

FTS MOTORS The standard ElectroShade —motor lead is a PVC 5 conductor #18 stranded cable approximately one foot (305mm) long with a 6 conductor disconnect-plug.

The standard ElectroShade <u>furnished—only</u> junction—box lead is the same type as the motor lead and has a plug compatible to it. This lead is approximately five-feet (1525 mm) long. One or four FTS systems can be wired on a single push-button switch. Please refer to

Drawing No. ____ for point-to-point connection. However, four or more FTS systems wired to a single switch require the use of a SGC; five to eight motors require one SGC; nine to 12 require two; and so forth. See Drawings No. _____

DESCRIPTION

Some point-to-point wiring diagrams may not include motor disconnect-plugs, junction boxes, and cable raceways that may be essential for a complete installation.

TYPICAL ELECTRICAL RATING FOR STANDARD MOTORS:

120 Volts 60HZ 2.2 Amps 246 Watts Actual Electrical rating is Job specific and is based on required Motor and selected Control

02/06/2008

Four and Six Conductor Flat Modular Switching Cables

POWER OUTPUT

TO MOTORS 120 VAC-2.3A

DIR 2 -

DIR 1 -

NEUTRAL ----

GROUND -

GREEN RED BLACK

GREEN

GREEN

GREEN

MechoShade Systems, Inc. 42-03 35th Street Long Island City, NY 11101 Tel: 718-729-2020 Fax: 718-729-2941

NO SIMULTANEOUS INPUTS NO SHARED COMMON INPUTS

(MOTOR 1 THRU MOTOR 4 AND POWER)

INPUT: 120VAC, 60 Hz, 20 A each

OUTPUTS: 120VAC, 60 Hz, 5 A each 12 VDC, 8 mA

MODULAR CABLE WITH SIX POSITION SIX

CONTACT MODULAR PLUGS (RJ-12)

#24 GA SIX CONDUCTOR FLAT

(TO LOCAL OR MASTER PORTS)

PRINTS

4 1 APPL DLR 05/15

POWER GROUND — SOURCE NEUTRAL 120 VAC-20A HOT _____ 0000 TTT **DRY MOMENTARY CONTACT CLOSURES**

Connecting to Other Interfaces

1 - NSTALLATION MUST COMPLY WITH ALL LOCAL AND NATIONAL ELECTRICAL CODES FOR 120 VAC AND LOW VOLTAGE WIRING REQUIREMENTS 2 - MAXIMUM DISTANCE BETWEEN IQ/MLC AND A SWITCH IS 400 FEET

The IQ/MLC can be connected to any interface that uses a momentary dry contact closure (3 dry contact closures per switch for full function or 2 for partial).

Local Ports

Local Ports use a 4-conductor 24 gauge modular cable and RJ11 connector with the following pin positions:

Pin 1: Common (Black) Pin 2: Top (Red) Pin 3: Middle (Green)

Pin 4: Bottom (Yellow

Master Ports & Local Ports

Master Ports use a 6-conductor 26 gauge flat modular cable and RJ12 connector with the following pin

Pin 1: Not used (White) Pin 2: Common (Black)

Pin 3: Top (Red) Pin 4: Middle (Green) Pin 5: Bottom (Yellow)

Only momentary closures of a minimum one—half of a second will engage the relays to raise or lower the shades. Maintained closures will not activate relays for the period of time they are closed. To stop shades at any point along the window, a momentary closure is required between common and any direction

For example, if shades are to be brought to the 50% point from the local port, a momentary closure between pins 1 and 3 would be required. However from the master port, a momentary closure between pins 2 and 4 would be required.

Calibration Mode can be activated from the master port by closing contacts between pins 2, 3 and 5 simultaneously for a minimum of 10 seconds. Calibration can also be accessed from a local port only for those motors associated to that local port (via dip switch settings) by closing contacts between pins 1, 2 and 4 simultaneously for a minimum of 10 seconds.

Uniform Mode:

To access or leave the Uniform Mode from the master port, close contacts between pins 2, 3, 4 and 5 simultaneously for a minimum of 10 seconds.

Pin assignments for default and custom intermediate stop positions for both Local Ports and Master Ports **Default intermediate stop positions**

Position	Local Ports	Master Ports
Full Up	Pins 1 and 2	Pins 2 and 3
25% Down	Pins 1, 2 & 3	Pins 2, 3 & 4
50% Down	Pins 1 and 3	Pins 2 and 4
75% Down	Pins 1, 3 & 4	Pins 2, 4 & 5
Full Down	Pins 1 & 4	Pins 2 & 5

Custom intermediate stop positions

Position	Local Ports	Master Ports
Full Up	Pins 1 and 2	Pins 2 and 3
1st Position	Pins 1, 2 & 3	Pins 2, 3 & 4
2nd Position	Pins 1 & 3	Pins 2 and 4
3rd Position	Pins 1, 3 & 4	Pins 2, 4 & 5
Full Down	Pins 1 & 4	Pins 2 & 5

Custom Calibration (To activate: close contacts for 10 seconds minimum)

	Local Ports	Master Ports
Close contacts between	Pins 1, 3 and 4	Pins 2, 3 and 5

Uniform Mode (To toggle in/out: close contacts for 10 seconds minimum)

	Local Ports	Master Ports
Close contacts between	Pins 1, 2, 3 and 4	Pins 2, 3, 4 and 5

M-2825EMB REV. / YALE SCHOOL OF FORESTRY NEW HAVEN, CT JOB NO. 384145 PROPOSAL NO. 148272-0-3 PROPOSED DETAILS DATE SCALE NOTE "ELECTRO" SHADES CENTERBROOK ARCHITECTS AND PLANNERS, LLC \mid DWN. BY \mid B.F. \mid CKD. BY \mid Z.D. DRAPERIES INC. Copyright © 2001 MechoShade Systems Inc.

SHEET NO. 8 OF 8

MOTOR LEAD +1'0" LONG PRE-WIRED MOTOR LEAD +1'0" LONG PRE-WIRED 1 - NSTALLATION MUST COMPLY WITH ALL LOCAL AND NATIONAL ELECTRICAL CODES FOR 120 VAC AND LOW VOLTAGE WIRING REQUIREMENTS. MOTOR 1 MOTOR 2 MOTOR 3 MOTOR 4 2 - MAXIMUM DISTANCE BETWEEN IQ/MLC AND A SWITCH 1 2 3 4 5 6 7 8 2 3 4 5 6 7 8 3 — THE WIRING SHOWN ABOVE, FOR THE BLACK AND RED MOTOR LEADS, IS FOR RIGHT HAND REGULAR—ROLL OR LEFT • | • | • | • | • | • | • | OF **.** C 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 HAND REVERSE-ROLL MOTORS. FOR LEFT HAND REGULAR-ROOL OR RIGHT HAND REVERSE-ROLL MOTORS, THE BLACK AND RED LEADS MUST BE REVERSED. GROUND -GROUND -SOURCE NEUTRAL SOURCE NEUTRAL INPUT: LINE VOLTAGE: 120VAC 60 HZ 120 VAC-16A 120 VAC-16A 0.1A NOMINAL UNDERLOAD: MOTOR DEPENDANT OUTPUT: LINE VOLTAGE: 120VAC 60 HZ LINE VOLTAGE: 120VAC 5A FUSE LOW VOLTAGE: 12VDC 8 mA

JUNCTION BOX

MOTOR #2 JUNCTION BOX

STANDARD WIRING DIAGRAM 5 AND MORE MOTORS WITH MULTIPLE IQ/MLC AND ONE SWITCH

JUNCTION BOX

MOTOR #4

SEE SHEET #1

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JUNCTION BOX

MOTOR #2 JUNCTION BOX

MOTOR #3 JUNCTION BOX

SINGLE STATION IQMLC LOCAL SWITCH