

# WESTFIELD STATE NEW SCIENCE CENTER WESTFIELD, MA.

## DRAWING INDEX

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## ABBREVIATIONS

BO.	-	BLACKOUT® SHADE CLOTH	IE.	-	IDLE END	R.R.	-	RAILROADED
CONT.	-	CONTINUED	L.	-	LENGTH	R.U.D.	-	ROLL UP DIAMETER
C.S.	-	CENTER SUPPORT	L.G.	-	LIGHT GAP	SCH.	-	SCHEDULE
CJ.	-	CUSTOM SHADECLOTH	MAX.	-	MAXIMUM	SECT.	-	SECTION
DE.	-	DRIVE END	MIN.	-	MINIMUM	SIM.	-	SIMILAR
D.T.	-	DUMMY TUBE	MIRR.	-	MIRRORED	S.C.	-	SHADECLOTH
ELEV.	-	ELEVATION	MSS	-	MECHOSHADE SYSTEMS	S.O.H.	-	SHADE OPENING HEIGHT
EV.	-	EUROVEIL® SHADECLOTH	N.J.C.	-	NOT IN CONTRACT	S.O.W.	-	SHADE OPENING WIDTH
ET.	-	EUROTWill® SHADECLOTH	NUMB.	-	NUMBER	S/B	-	SEAM / BATTEN
EC.	-	ECOVEIL® SHADECLOTH	O.H.	-	OPENING HEIGHT	TV.	-	THERMOVEIL® SHADECLOTH
FL.	-	FLOOR	O.O.W.	-	OVERALL OPENING WIDTH	TYP.	-	TYPICAL
GY.BD.	-	GYPsum BOARD	OPP.HAND	-	OPPOSITE HAND	UNIV.H.	-	UNIVERSAL EXPOSED HEM BAR
G.C.	-	GUIDE CABLES	PKT.	-	POCKET	VERT.	-	VERTICAL
H.HEM.	-	HEAVY HEM BAR	PR	-	PRIVACY	V.I.F.	-	VERIFY IN FIELD
HEM.	-	HEM BAR	REF.	-	REFERENCE	W.	-	WIDTH
HT.	-	HEIGHT	REQ.	-	REQUIRED	W.P.	-	WORK POINT
			RM.	-	ROOM			

## SHADE PLAN SYMBOLS LEGEND

	ELEVATION VIEW CALLOUT → VIEW NUMBER → SHEET NUMBER		SECTION DETAIL CALLOUT → DETAIL NUMBER → SHEET NUMBER
	REFLECTED DETAIL CALLOUT → DETAIL NUMBER → SHEET NUMBER		COLUMN CALLOUT
	PLAN NORTH INDICATOR		ROOM LABEL → ROOM NAME → ROOM NUMBER
	MOTORIZED SHADE		MANUAL SHADE → DRIVE CHAIN LOCATION
	DRIVE CABLE TUBE		SKYLIGHT SHADE FABRIC
	IQ² EDU → SHADE CLOTH TYPE → FLOOR NUMBER → MOTOR NUMBER		SHADE MOTOR → SHADE CLOTH TYPE → FLOOR NUMBER → MOTOR NUMBER
<b>VIEW TITLE</b> SCALE: VIEW SCALE	VIEW CALLOUT		<b>DETAIL</b> SCALE: DRAWING SCALE DETAIL CALLOUT
	REVISION TAG		REVISION CLOUD

## WIRING PLAN SYMBOLS LEGEND

IQ®/2 EDU 506 UP TO 53 lb/in 120 VAC, 0.9 A, 60 Hz 509 UP TO 79 lb/in 120 VAC, 1.1 A, 60 Hz 512 UP TO 106 lb/in 120 VAC, 1.8 A, 60 Hz	XX XX XX IQ² EDU (FURNISHED BY MSS & INSTALLED BY OTHERS) LOW VOLTAGE MOTOR LEAD 1'-6"± LONG PRE-WIRED TO MOTOR (FURNISHED BY MSS)		IQ² 2+2-BUTTON SWITCH (FURNISHED BY MSS & INSTALLED BY OTHERS)
	SHADE MOTOR (FURNISHED BY MSS & INSTALLED BY OTHERS) LOW VOLTAGE MOTOR LEAD 1'-6"± LONG PRE-WIRED TO MOTOR (FURNISHED BY MSS)		IQ² 10-BUTTON SWITCH (FURNISHED BY MSS & INSTALLED BY OTHERS)
	IQ² 5-BUTTON SWITCH (FURNISHED BY MSS & INSTALLED BY OTHERS)		IQ² 5+2-BUTTON SWITCH (FURNISHED BY MSS & INSTALLED BY OTHERS)
	IQ² 2-BUTTON SWITCH (FURNISHED BY MSS & INSTALLED BY OTHERS)		TRUE NORTH INDICATOR
	IQ² DUAL SPLITTER (FURNISHED BY MSS & INSTALLED BY OTHERS)		SOLARTRAC ZONE INDICATOR
	IQ/MLC2® CONTROLLER (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	SOLARTRAC® 50 CONTROLLER (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	SUNDIALER® (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	IQ² GATEWAY (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	POWER DISTRIBUTION PANEL (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	SOLARTRAC® PC (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	MECHONET NETWORK INTERFACE (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	MECHONET NETWORK TERMINATOR (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	SOLARTRAC® NETWORK TERMINATOR (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	ROOF MOUNTED RADIOMETER (FURNISHED BY MSS & INSTALLED BY OTHERS)		
	ROOF MOUNTED PHOTOMETER (FURNISHED BY MSS & INSTALLED BY OTHERS)		

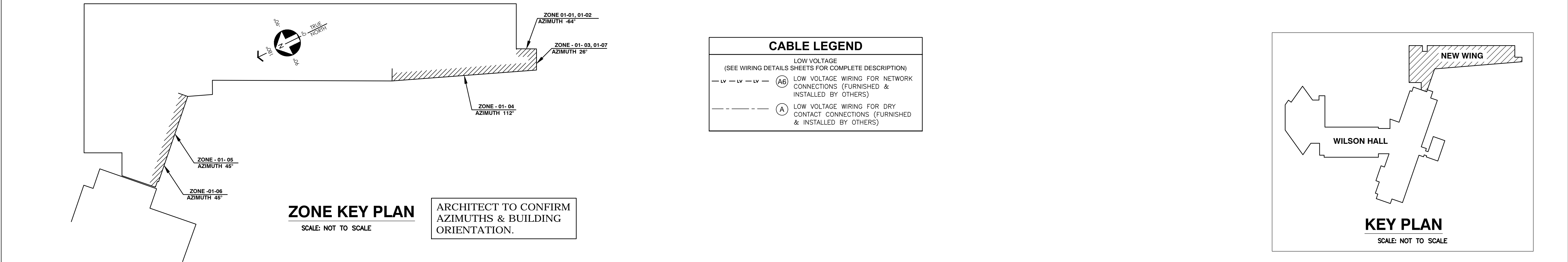
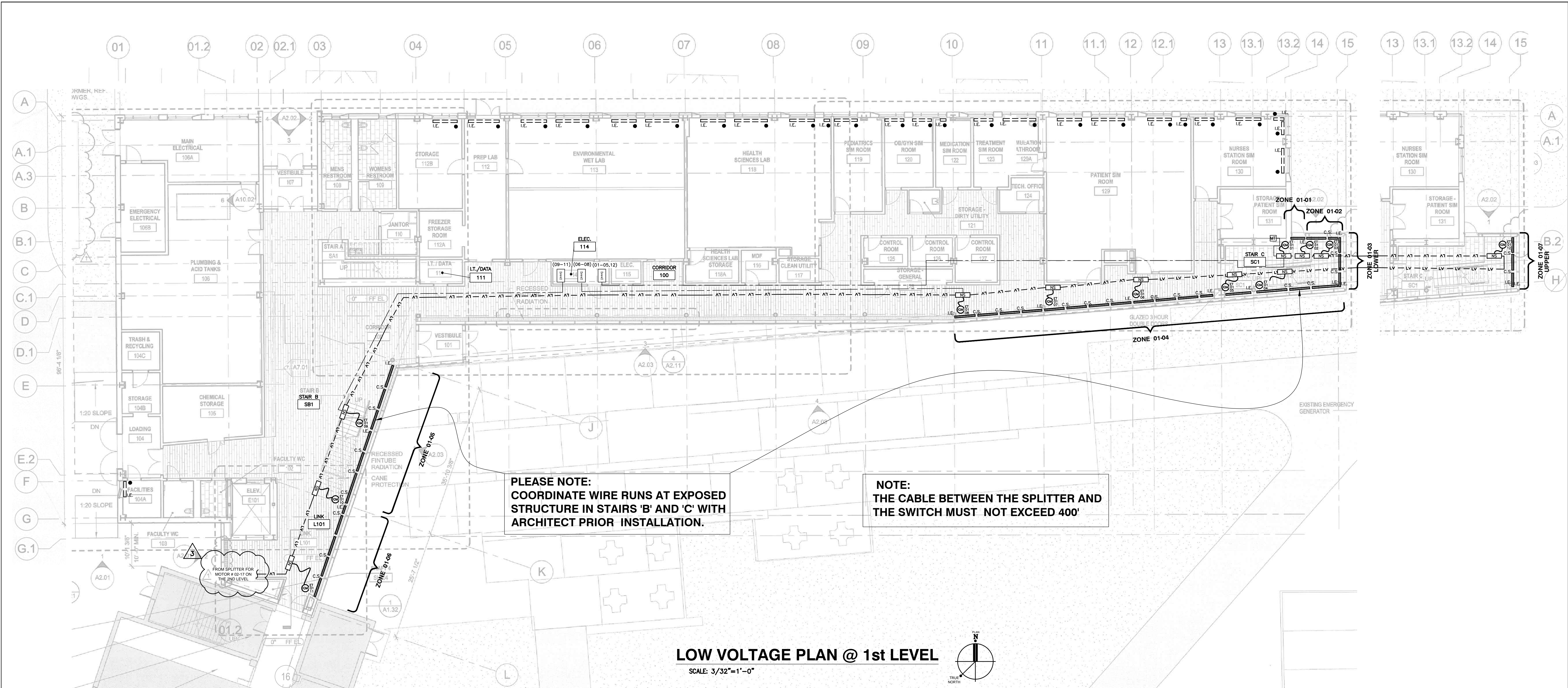
NOTES:  
1 - ALL DIMENSIONS AND JOB CONDITIONS TO BE FIELD VERIFIED BY DEALER BEFORE FABRICATION.  
2 - ALL MATERIALS, COLORS, FINISHES, ETC. ARE TO BE MechShade STANDARDS UNLESS OTHERWISE NOTED.  
3 - MechSystems RESERVES THE RIGHT TO MAKE DESIGN MODIFICATIONS AND TECHNICAL CHANGES WITHOUT PRIOR NOTICE.  
4 - EUROTWill SHADECLOTH TO BE No. 6000 SERIES - 63" & 96" WIDTH - VERTICAL WIDTH FOR HEIGHT WITH SEAM/BATTEN AS SHOWN ON ABOVE ELEVATIONS -  
- STANDARD MechShade COLOR 6006 SILVER BIRCH (MOTORIZED SHADES)  
5.THERMOVEIL SHADECLOTH TO BE 3000 SERIES -72" & 96"- VERTICAL WIDTH FOR HEIGHT WITH SEAM/BATTEN AS SHOWN ON ELEVATIONS (MANUAL SHADES)

4			
	05/05/16	NO CHANGE	J.L.R.
	03/23/16	NO CHANGE	J.L.R.
	02/08/2016	NO CHANGE	J.C.M.
NO.	DATE	DESCRIPTION	BY
REVISIONS			

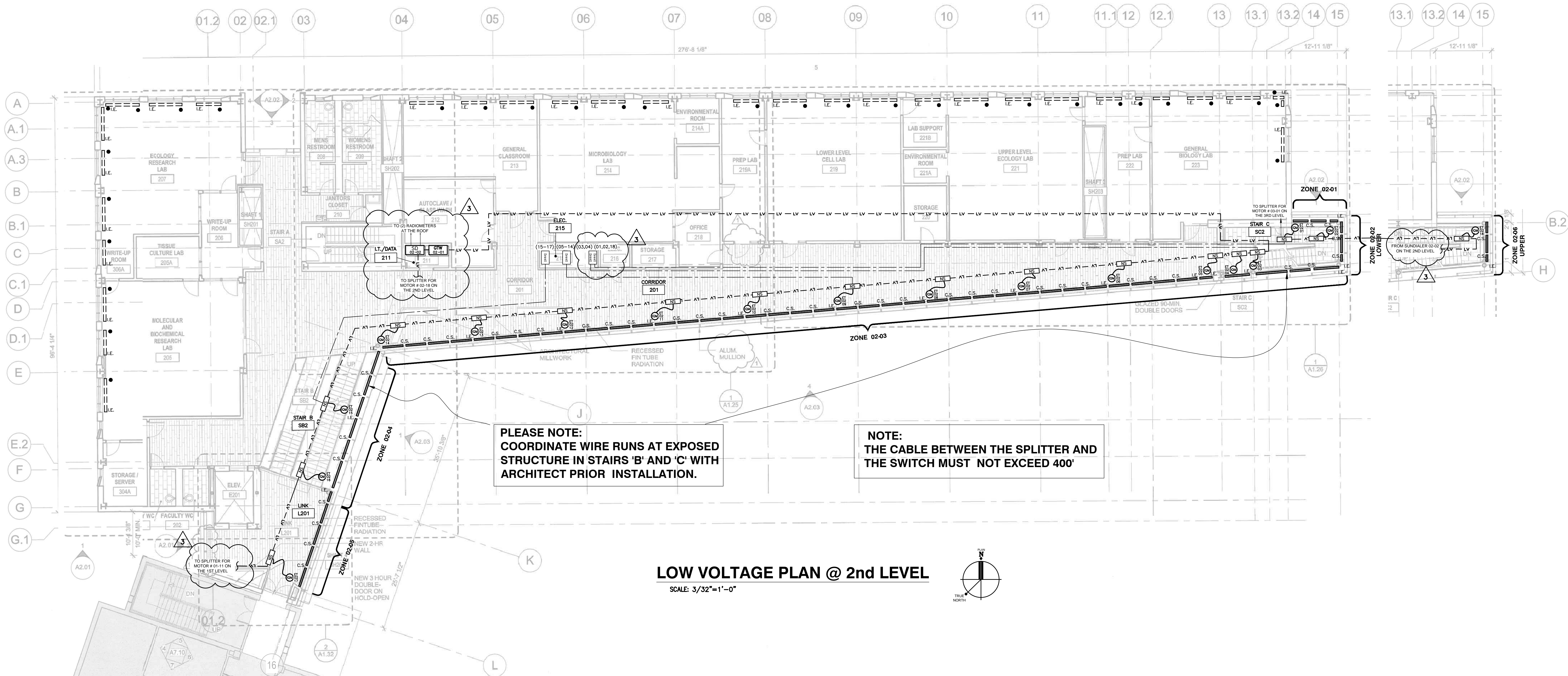
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Long Island City, NY 11101  
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JOB	WESTFIELD STATE NEW SCIENCE CENTER WESTFIELD, MA.	DWG NO.	M-4128W	REV.	3
JOB NO.	770236	PROPOSAL NO.	309247-0-1	SCALE	AS NOTED
TITLE	COVER SHEET	DATE	10/30/15	DWN. BY	M.A.F.
ARCHITECT	OFFICE OF PLANNING DESIGN & CONST.	CRD. BY	K.C.	SHEET NO.	1 OF 7
DEALER	BAY STATE BUILDING SPECIALTIES				







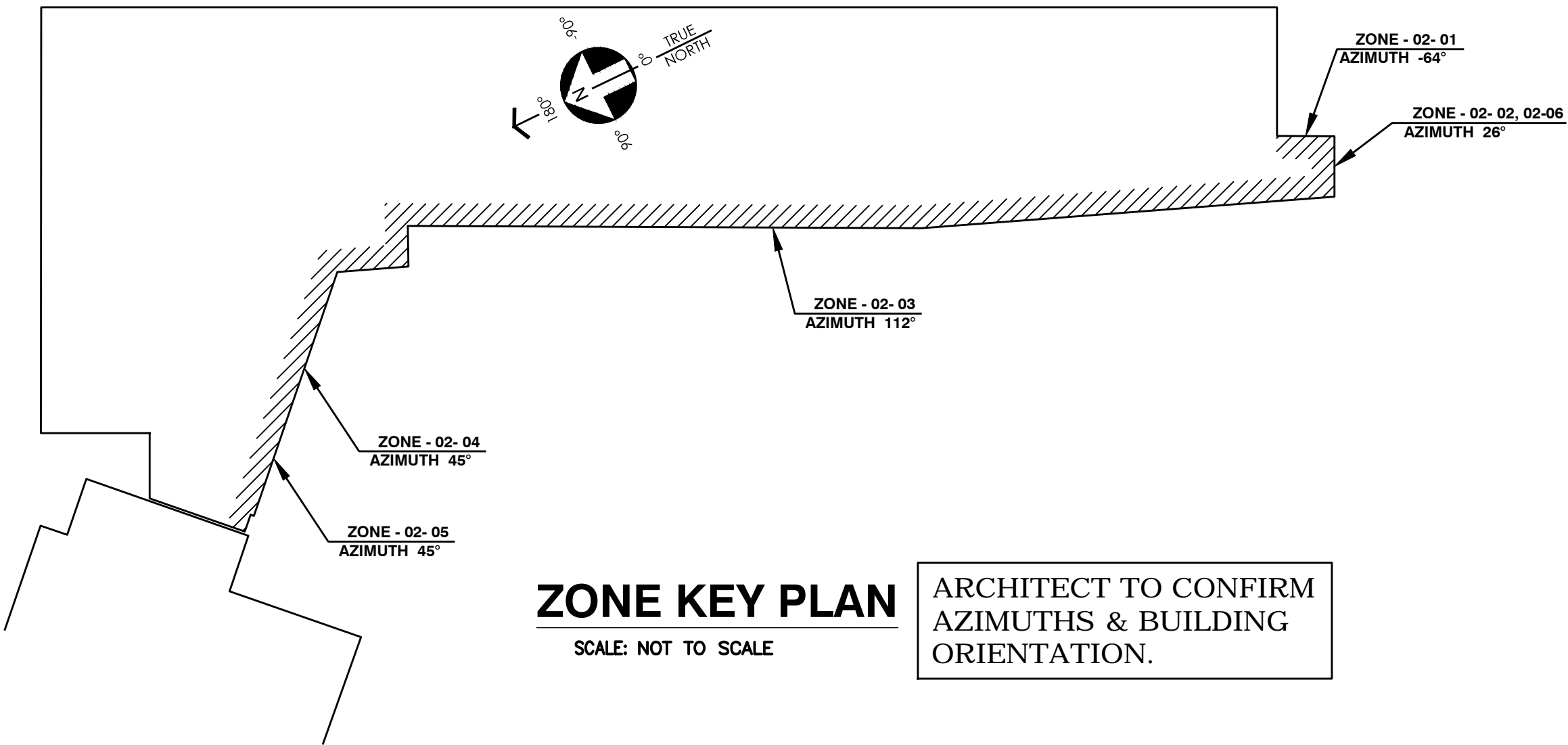
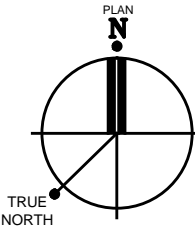


PLEASE NOTE:  
COORDINATE WIRE RUNS AT EXPOSED  
STRUCTURE IN STAIRS 'B' AND 'C' WITH  
ARCHITECT PRIOR INSTALLATION.

NOTE:  
THE CABLE BETWEEN THE SPLITTER AND  
THE SWITCH MUST NOT EXCEED 400'

## LOW VOLTAGE PLAN @ 2nd LEVEL

SCALE: 3/32"=1'-0"



## ZONE KEY PLAN

SCALE: NOT TO SCALE

ARCHITECT TO CONFIRM  
AZIMUTHS & BUILDING  
ORIENTATION.

## CABLE LEGEND

LOW VOLTAGE (SEE WIRING DETAILS SHEETS FOR COMPLETE DESCRIPTION)		
— LV — LV — LV —	(A6)	LOW VOLTAGE WIRING FOR NETWORK CONNECTIONS (FURNISHED & INSTALLED BY OTHERS)
— — — — —	(A)	LOW VOLTAGE WIRING FOR DRY CONTACT CONNECTIONS (FURNISHED & INSTALLED BY OTHERS)

## SHOP DRAWING DIMENSIONS

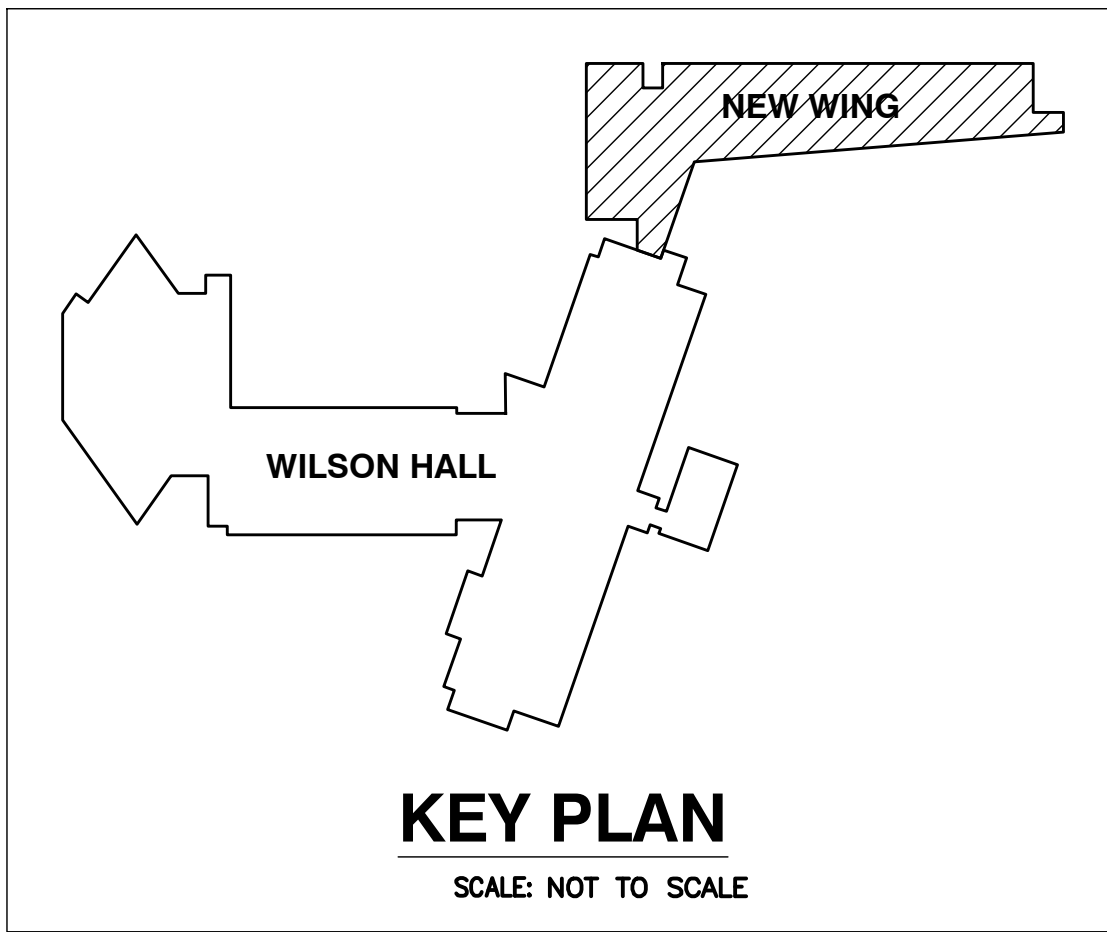
DETAILS: HARDWARE SIZES ± 1/32" (0.79mm)  
ROLL DIAMETER SIZES ± 1/8" (3.18mm)  
EDGE CLEARANCE ± 3/16" (4.76mm)

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.

NO.	DATE	DESCRIPTION	BY
4	05/05/16	PER ARCHITECT'S REVISION	J.L.R.
3	03/23/16	PER ARCHITECT'S REVISION	J.L.R.
2	02/08/2016	NO CHANGE	J.C.M.
1			

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JOB	WESTFIELD STATE NEW SCIENCE CENTER WESTFIELD, MA.	DWG NO.	M-4128W	REV.	3
PROPOSAL NO.	770236	DATE	10/30/15	SCALE	AS NOTED
ARCHITECT	OFFICE OF PLANNING DESIGN & CONST.	DWN. BY	M.A.F.	CRD. BY	K.C.
DEALER	BAY STATE BUILDING SPECIALTIES	SHEET NO.	3	OF	7

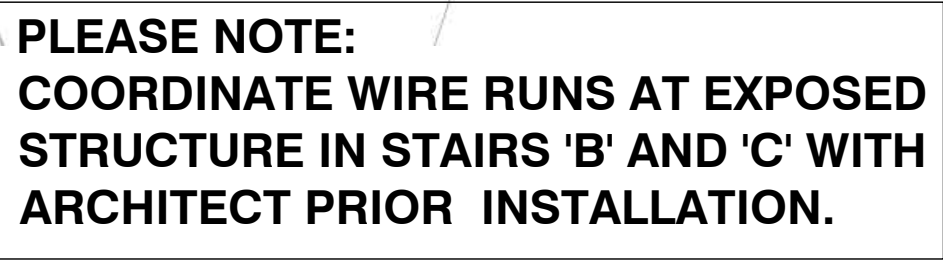
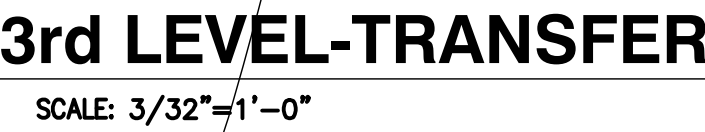


## KEY PLAN

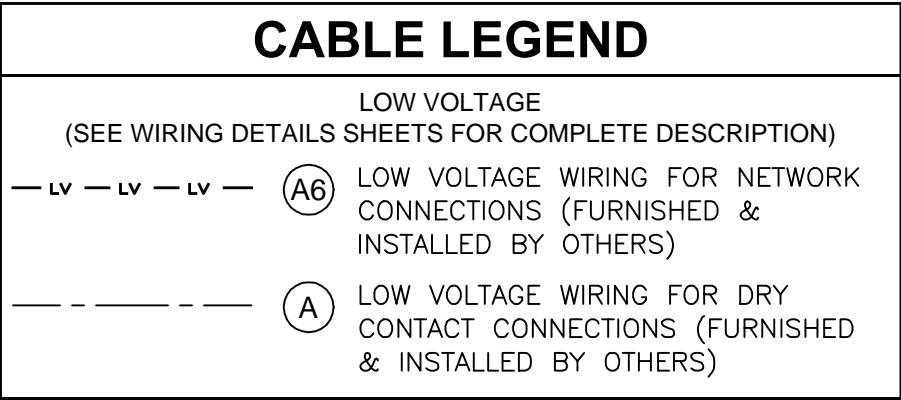
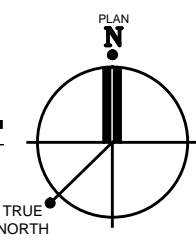
SCALE: NOT TO SCALE

NOTES:  
1 - SEE SHEET #1





SCALE: 1/8"=1'-0"



**NOTE:**  
**THE CABLE BETWEEN THE SPLITTER AND**  
**THE SWITCH MUST NOT EXCEED 400'**

4			
3	05/05/16	NO CHANGE	J.L.R.
2	03/23/16	PER ARCHITECT'S REVISION	J.L.R.
1	02/08/2016	PER ARCHITECT'S REVISION	J.C.M.
NO.	DATE	DESCRIPTION	BY
REVISIONS			

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JOB	WESTFIELD STATE NEW SCIENCE CENTER WESTFIELD, MA.		DWG NO.	M-4128W	REV.	3
TITLE	LOW VOLTAGE PLAN @ 3RD LEVEL		PROPOSAL NO.	770236		
ARCHITECT	OFFICE OF PLANNING DESIGN & CONST.		DATE	10/30/15	SCALE	AS NOTED
DEALER	BAY STATE BUILDING SPECIALTIES		DRAWN BY	M.A.F.	CHECKED BY	K.C.
			SHEET NO.	4	OF	7

NOTES:  
1 - SEE SHEET #1

**SHOP DRAWING DIMENSIONS**

DETAILS:	HARDWARE SIZES	± 1/32" (0.79mm)
	ROLL DIAMETER SIZES	± 1/8" (3.18mm)
SHADE BANDS:	EDGE CLEARANCE	± 3/16" (4.76mm)

Roller/Shade 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.

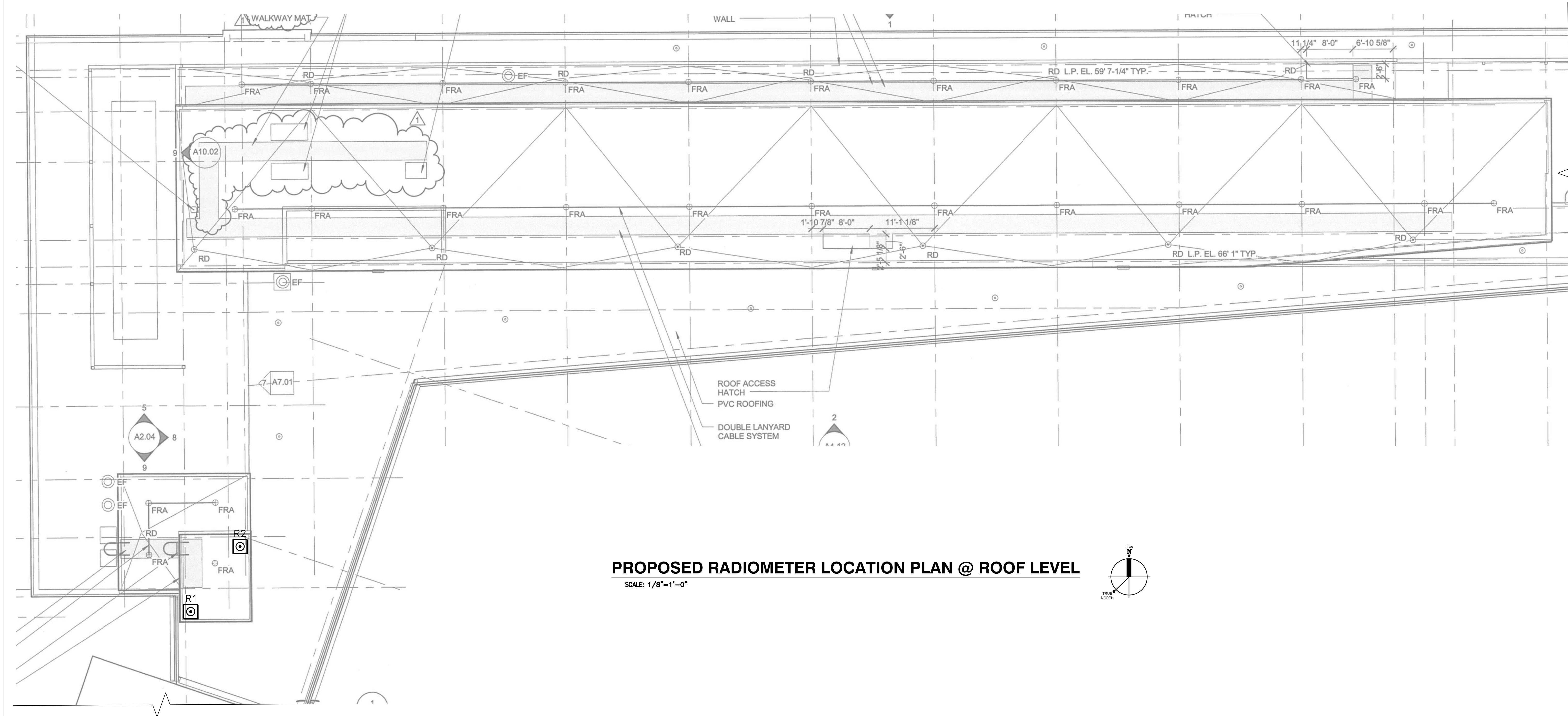
Final dimensions are for shading and shade locations only. Final sizes are not included.

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

Blocking is Not In Contract.

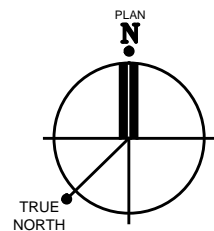
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PROPOSED RADIOMETER LOCATION PLAN @ ROOF LEVEL

SCALE: 1/8"=1'-0"



- PLEASE NOTE:
- PLEASE MAKE SURE THERE IS NOT ANY TALLER STRUCTURE CASTING SHADOW ON THE RADIOMETERS.
  - RADIOMETERS MUST BE MOUNTED ON A STRUCTURE TO ENSURE THAT THEY WILL NOT BE COVERED BY SNOW.
  - RADIOMETERS MUST BE MOUNTED FACING UP AND MUST BE LEVELED.
  - CONNECTIONS MUST BE MADE IN A WATERPROOF NEMA 4 ENCLOSURE.
  - RADIOMETER LOCATIONS TO BE FINALIZED AT THE TIME OF INSTALLATION.

KEY

C.S.	— CENTER SUPPORT
D.E.	— DRIVE END
I.E.	— IDLE END
O.H.	— OPENING HEIGHT
O.O.W.	— OVERALL OPENING WIDTH
O.W.	— OPENING WIDTH
R.U.D.	— ROLL UP DIAMETER
S.C.	— SHADE CLOTH
S.O.H.	— SHADE OPENING HEIGHT
S.O.W.	— SHADE OPENING WIDTH
V.I.F.	— VERIFY IN FIELD
N.I.C.	— NOT IN CONTRACT

WIRING PLAN EQUIPMENT KEY

R  
⊙ — EXTERNAL RADIOMETERS (FURNISHED BY MSS & INSTALLED BY OTHERS)

NOTES:  
1- SEE SHEET #1

SHOP DRAWING DIMENSIONS

DETAILS: HARDWARE SIZES ± 1/32" (0.79mm)  
ROLL DIAMETER SIZES ± 1/8" (3.18mm)  
EDGE CLEARANCE ± 3/16" (4.76mm)

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.

NO.	DATE	DESCRIPTION	BY
4			
1	05/05/16	NO CHANGE	J.L.R.
2	03/23/16	NO CHANGE	J.L.R.
3	02/08/2016	NO CHANGE	J.C.M.

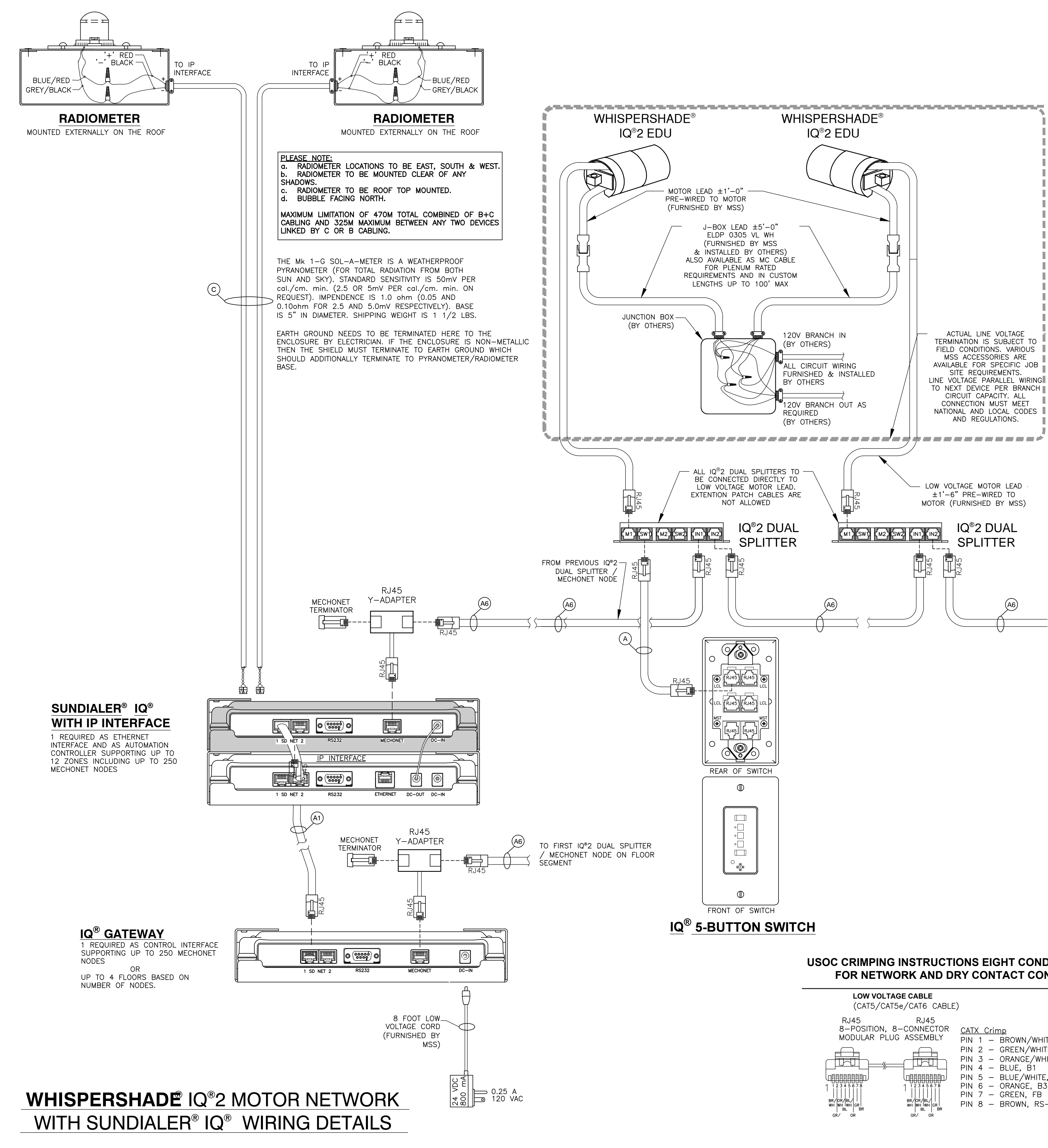


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JOB	WESTFIELD STATE NEW SCIENCE CENTER WESTFIELD, MA.	DWG NO.	M-4128W	REV.	3
TITLE	RADIOMETER LOCATION PLAN	PROPOSAL NO.	770236	SCALE	309247-0-1
ARCHITECT	OFFICE OF PLANNING DESIGN & CONST.	DATE	10/30/15	AS NOTED	
DEALER	BAY STATE BUILDING SPECIALTIES	DWN. BY	M.A.F.	CKD. BY	K.C.
SHEET NO.	5	OF	7		







## STANDARD ELECTRICAL NOTES

All electrical control equipment as indicated is **furnished-only** by MechoSystems, installed and wired by the Electrical Contractor.

Electrical control equipment may contain electromechanical relays, adjustment points, fuses, indicator lights, and other interface electronics. 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 labeled by the Electrical Contractor indicating shade locations and specific motors which are controlled, and it shall be labeled at the control equipment and circuit breaker.

Some point-to-point diagrams may not include motor disconnect plugs, junction boxes and cable raceways that may otherwise be essential for a complete installation. The point-to-point diagrams may also not depict a complete or accurate wiring arrangement that meets all applicable national and local codes for a given project location.

- Warning:**
- Wiring must be accomplished by a qualified electrician in accordance with all the applicable national and local codes.
  - Improper wiring can result in personal injury and / or damage to equipment and surroundings.
  - Read all instructions before installing. It is important for the safety of each person to follow these instructions. If you are unsure of any part, stop and contact a qualified installer.
  - Code requires an accessible detachable power cord, switch or disconnect at the point of installation for the drive which must be located away from moving parts.
  - Save all instructions.
  - All electrical control equipment must be wired in accordance with the wiring diagrams prepared by MechoSystems, and in accordance with all applicable national (i.e. United States: N.E.C.) and local codes.
  - Before installing or servicing remove any unnecessary cords and disable any equipment not needed for powered operation.
  - To avoid the risk of fire, shock or death turn off the power at the circuit breaker or fuse before wiring or servicing equipment. Test that power is off before proceeding.
  - Make sure that the mains voltage matches the ratings on the product labels.
  - Line voltage wiring should only be connected using copper or copper-clad aluminum wire with the CC-CU or CU-CC markings.
  - An outlet or terminal box to which connections to the power supply circuit will be made shall be located so that, after the appliance has been installed, such connections are accessible for inspection.
  - The leads intended to be spliced in the field shall have insulation not less than 1/32 in. (0.8mm) thick.
  - A hole through which insulated wires pass in a sheet metal wall shall be provided with a smooth, rounded protective bushing.

Green motor wires are to be fastened to the grounding point on grounded junction boxes, conduits or other suitable building ground locations as required by code.

- Do not connect low voltage wires to high voltage power. Improper wiring can result in personal injury and/or damage to the equipment.
- Low voltage cables should not be routed near power lines or electrical devices such as lighting ballasts, dimmers and LED drivers that may expose the system to excessive electrical noise.
- When crimping RJ connectors on modular cable or CAT5/6 cable, care must be taken to follow crimping instructions in order to ensure a reliable connection. The outer jacket must be captured within the crimp on the connection in order to ensure proper strain relief.
- Pre-crimped telephone cables will not work.
- Observe wiring guidelines in the low voltage cabling legend in order to ensure maximum cable lengths and maximum node count are properly followed.
- **Europe:** Do not permit children to play with the appliance (shade motors) or fixed controls. Keep remote controls away from children.
- **Europe:** The appliance (shade motor) is not intended for use by children or people with reduced physical, sensory or mental capabilities or lack of experience and knowledge unless given proper instruction or supervision.

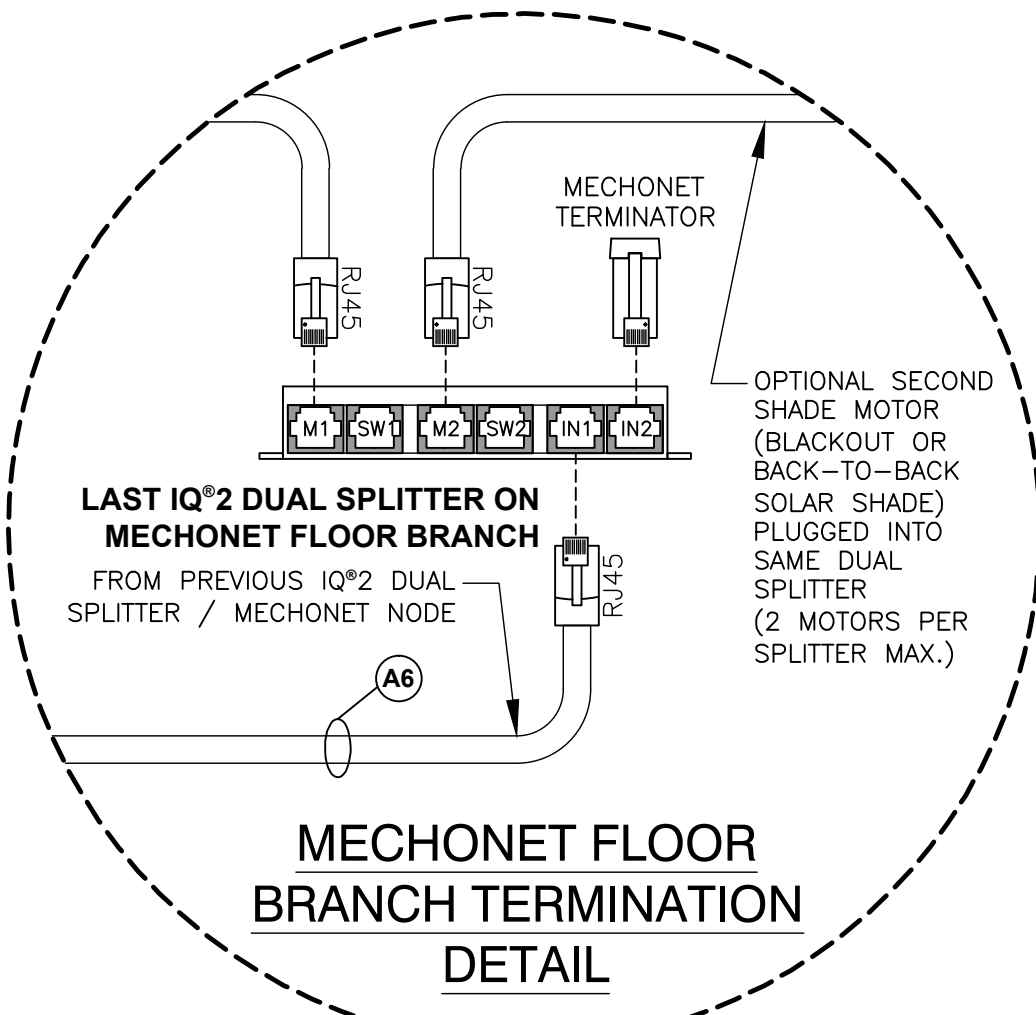
**Canada:** The impedance of the bonding connection to the shade motor must be at least 0.1 Ohms.

Except for the drapery operator (shade motor), all exposed dead metal parts and all dead metal parts within the enclosure shall be reliably connected to the equipment-bonding terminal or lead.

Code requires an accessible, detachable power cord or switch at the point of installation and away from moving parts for the shade motor.

**Europe:** The actuating member of a biased-off switch shall be located within direct sight of the shade assembly but away from moving parts. It shall be installed at a minimum height of 4.92 ft. (1.5m) and possess an opening distance between contacts of at least 0.12 in. (3mm). Controls are all certified in installation up to 6562 ft. (2000m) above sea level.

All tubular shade motors are limited duty cycle motors that are not rated for continuous use. They possess built-in thermal overload protection which limits their continuous use to approximately five (5) minutes. Once protection activates, operation will resume again after the internal temperatures within the motor return to below the thermal limit. Up to a thirty (30) minute rest may be required in order for the motor to sustain regular operation once again.



## STANDARD (BI-DIRECTIONAL) LINE VOLTAGE TUBULAR MOTORS (a.k.a "Standard Motors")

ElectroShade® and WhisperShade® standard motors possess a line voltage motor lead which is a 4-conductor (line1, line2, neutral, earth), 18 AWG stranded, PVC-jacketed cable approximately one foot (1 ft. or 305mm) long with a 4-conductor disconnect plug.

The standard ElectroShade® and WhisperShade® junction box lead is a 4-conductor (line1, line2, neutral, earth), 18 AWG stranded, PVC-jacketed cable approximately five feet (5 ft. or 1525mm) long with a mating 4-conductor disconnect plug.

For all standard motors:

- Shade motors must not be wired in parallel or series "daisy chained" fashion. Only one motor may be wired to each set of motor connections or it will cause premature motor burnout and void any applicable warranty.
- Do not wire two (2) or more motors to one (1) SPDT (single-pole, double-throw) switch.
- A single DPDT (double-pole, double-throw) switch may be wired to up to two (2) standard motors IF each is wired to a separate pole of the switch. Please refer to Drawing No. M-160 for a point-to-point connection.
- Do not wire two (2) or more switches to one (1) motor.
- 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 controller or switch wiring connections. This will prevent the motors from running in the opposite directions. (NOTE: for the IQ/MLC2 the direction of rotation can be changed in the programming of the controller without changing the wiring.)

## INTELLIGENT (BI-DIRECTIONAL) LINE VOLTAGE TUBULAR MOTORS (a.k.a. "Intelligent Motors")

The ElectroShade® and WhisperShade® intelligent motors possess a line voltage motor leads which is a 3-conductor (line, neutral, earth), 18 AWG stranded, PVC-jacketed cable approximately one foot (1 ft. or 305mm) long with a 4-conductor or 3-conductor disconnect plug.

The standard ElectroShade® and WhisperShade® junction box lead is a 4-conductor (line1, line2, neutral, earth) or 3-conductor (line, neutral, earth), 18 AWG stranded, PVC-jacketed cable approximately five feet (5 ft. or 1525mm) long with a mating 4-conductor or 3-conductor disconnect plug.

For all intelligent motors such as I-Con®, IQ®, IQ2, RTS, ILT and ILT2; parallel or series "daisy-chained" wiring is permitted up to the capacity of the branch circuit relative to code requirements.

## FTS MOTORS

The ElectroShade® FTS motors possess a line voltage motor lead which is a 5-conductor, 18 AWG stranded, PVC-jacketed cable approximately one foot (1 ft. or 305mm) long with a 6-conductor disconnect plug.

The standard ElectroShade® FTS junction box lead is a 5-conductor, 18 AWG stranded, PVC-jacketed cable approximately five feet (5 ft. or 1525mm) long with a mating 6-conductor disconnect plug.

One of four FTS systems can be wired on a single push-button switch. Please refer to Drawing No. XXXXX for point-to-point connection.

09/26/2012

## LOW VOLTAGE CABLE LEGEND

<b>A</b>	CATS/6E – FOR LOW VOLTAGE DRY CONTACT CONNECTIONS 24AWG 4UTP (8–CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ–45 MODULAR PLUG CRIMPED (USOC) ON BOTH ENDS DISTANCE LIMITATION: 400' CUMULATIVE (FURNISHED & INSTALLED BY OTHERS)
<b>A1</b>	CATS/6E – CABLE FOR SDNET 24AWG 4UTP (8–CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ–45 MODULAR PLUGS CRIMPED (USOC) ON BOTH ENDS. DISTANCE LIMITATION: 4000' CUMULATIVE. MAX. NETWORK NODES: 16. (FURNISHED & INSTALLED BY OTHERS)
<b>A2</b>	CATS/6E – CABLE FOR ETHERNET CONNECTIONS 24AWG 4UTP (8–CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ–45 MODULAR PLUGS CRIMPED (EIA568A) ON BOTH ENDS DISTANCE LIMITATION: 325'. MAX. NODES: 2. (FURNISHED & INSTALLED BY OTHERS)
<b>A6</b>	CATS/6E – CABLE FOR MECNONET 24 AWG 4UTP (8–CONDUCTOR STRANDED UNSHIELDED TWISTED PAIR) TERMINATION: RJ–45 MODULAR PLUGS CRIMPED (USOC) ON BOTH ENDS DISTANCE LIMITATION: 4000' CUMULATIVE. MAX. NODES: 250. (FURNISHED & INSTALLED BY OTHERS)
<b>C</b>	BELDEN TYPE 82760 18AWG 1STP (2–CONDUCTOR SHIELDED TWISTED PAIR) FOR PC INTERFACE/ANALOG I/O TO SENSOR CONNECTIONS PHOENIX CONNECTOR/CONNECTION "+ = RED "- = BLACK "+ = BLUE/RED "- = GREY/BLACK DISTANCE LIMITATION: 500' CUMULATIVE (FURNISHED & INSTALLED BY OTHERS)
<b>NOTES</b> 1. PARALLEL WIRING TO NEXT DEVICE PER BRANCH CIRCUIT CAPACITY. ALL CONNECTION MUST MEET NATIONAL AND LOCAL CODES AND REGULATIONS. 2. ADDRESS SCHEDULES REQUIRED. 3. MAXIMUM VOLTAGE FOR ALL UNMARKED CABLE IS 43.5 VDC. 4. LOW VOLTAGE CABLES SHOULD NOT BE ROUTED NEAR POWER LINES OR ELECTRICAL DEVICES SUCH AS LIGHTING BALLASTS, DIMMERS AND LED DRIVERS THAT MAY EXPOSE THE SYSTEM TO EXCESSIVE ELECTRICAL NOISE.	

NOTES:  
1- SEE SHEET #1

## SHOP DRAWING DIMENSIONS

DETAILS: HARDWARE SIZES ± 1/32" (0.79mm)  
ROLL DIAMETER SIZES ± 1/8" (3.18mm)  
EDGE CLEARANCE ± 3/16" (4.76mm)

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.

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05/05/16	NO CHANGE	J.L.R.	
03/23/16	NO CHANGE	J.L.R.	
02/08/2016	NO CHANGE	J.C.M.	
NO.	DATE	DESCRIPTION	BY
REVISIONS			

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JOB	WESTFIELD STATE NEW SCIENCE CENTER WESTFIELD, MA.	DWG NO.	M-4128W	REV.	3
PROPOSAL NO.	770236	DATE	10/30/15	SCALE	AS NOTED
TITLE	IQ2 MOTOR POINT TO POINT WITH SUNDIALER	DWN BY	M.A.F.	CKD BY	K.C.
ARCHITECT	OFFICE OF PLANNING DESIGN & CONST.	SHEET NO.	7	OF	7
DEALER	BAY STATE BUILDING SPECIALTIES				