

Project Information

Project Specific Notes:

Materials Checklist

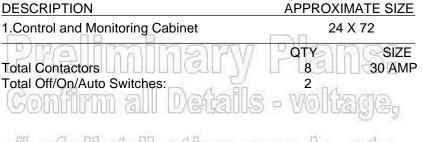
Contractor/Customer Supplied:

- A dedicated control circuit must be supplied per distribution panel location.
 If the control voltage is NOT available, a control transformer is required.
- Electrical distribution panel to provide overcurrent protection for circuits
 - HID rated or D-curve circuit breaker sized per full load amps on Circuit Summary by Zone Chart
- U Wiring:
 - See chart on page 2 for wiring requirements
 - Equipment grounding conductor and splices must be insulated. (per circuit)
 - Lightning ground protection (per pole), if not Musco supplied.
- Electrical conduit wireway system
 Entrance hubs rated NEMA 4: must be die-cast zinc, PVC, or copper-free die-cast aluminum
- Mounting hardware for cabinets
- Breaker lock-on device to prevent unauthorized power interruption to control power and powerline connection (if present)
- Anti-corrosion compound to apply to ends of wire, if necessary

Call Control-Link Central [™] operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation. Note: Activation may take up to 1 1/2 hours

Droiget #	174700
Project #:	174790
Project Name:	Mountain Brook Cherokee Bend Elementary
Date:	03/03/20
Project Engineer:	Isaac Sanders
Sales Representative:	Jimmy Jumper
Control System Type:	LED C&M
Communication Type:	PowerLine-ST
Scan:	174790A
Document ID:	174790P1V1-0303163316
Distribution Panel Locat	tion or ID: Service 1
Total # of Distribution Pa	anel Locations for Project: 1
Design Voltage/Hertz/P	hase: 480/60/3
Control Voltage:	120

Equipment Listing



of distribution panels, etc.

IMPORTANT NOTES

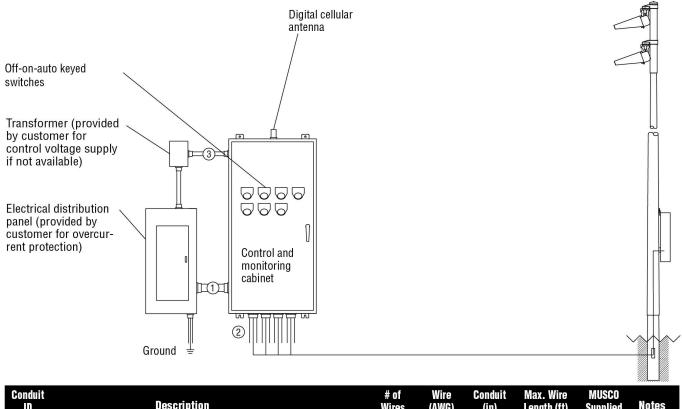
- Please confirm that the design voltage listed above is accurate for this facility. Design voltage/phase is defined as the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate design voltage/phase can result in additional costs and delays. Contact your Musco sales representative to confirm this item.
- 2. In a 3 phase design, all 3 phases are to be run to each pole. When a 3 phase design is used Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- 3. One contactor is required for each pole. When a pole has multiple circuits, one contactor is required for each circuit. All contactors are UL 100% rated for the published continuous load. All contactors are 3 pole.
- 4. If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
- 5. A single control circuit must be supplied per control system.
- Size overcurrent devices using the full load amps column of the Circuit Summary By Zone chart- Minimum power factor is 0.9.

NOTE: Refer to Installation Instructions for more details on equipment information and the installation requirements



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Control·Link。 Control and Monitoring System



ID	Description	Wires	(AWG)	(in)	Length (ft)	Supplied	Notes
1	Line power to contactors, and equipment grounding conductor	*A	*В	*C	N/A	No	A-E
1	Power-line Communication Connection (dedicated, 20A)	*A	12	*C	N/A	No	A-E
2	Load power to lighting circuits, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
3	Control power (dedicated, 20A)	3	12	*C	N/A	No	C,E

* Notes:

R60-100-00_A

- A. See voltage and phasing per the notes on cover page.
- B. Calculate per load and voltage drop.
- C. All conduit diameters should be per code unless otherwise specified to allow for connector size.
- D. Equipment grounding conductor and any splices must be insulated.
- E. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control wires (3) must be in separate conduit from line and load power wires (1, 2).



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SWITCHING SCHEDULE

Field/Zone Description	Zones
Multipurpose	1
Security	2

CONTROL POWER CONSUMPTION					
120V Single Phase					
VA loading INRUSH: 2533.0 of Musco					
Supplied SEALED: 283.8					
Equipment					

	CIRCUIT SUMMARY BY ZONE							
POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	# OF DRIVERS	*FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE	
P1	Multipurpose	3	3	6.4	30	C1	1	
P2	Multipurpose	3	3	6.4	30	C2	1	
P3	Multipurpose	3	3	6.4	30	C3	1	
P4	Multipurpose	3	3	6.4	30	C4	1	
P5	Multipurpose	3	3	6.4	30	C5	1	
P6	Multipurpose	3	3	6.4	30	C6	1	
P7	Multipurpose	3	3	6.4	30	C7	1	
P1,P2	Security	2	2	0.6	30	C8	2	

*Full Load Amps based on amps per driver.



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			PANEL SUMMARY			
CABINET #	CONTROL MODULE LOCATION	CONTACTOR ID	CIRCUIT DESCRIPTION	FULL LOAD AMPS	DISTRIBUTION PANEL ID (BY OTHERS)	CIRCUIT BREAKER POSITION (BY OTHERS)
1	1	C1	Pole P1	6.41		
1	1	C2	Pole P2	6.41		
1	1	C3	Pole P3	6.41		
1	1	C4	Pole P4	6.41		
1	1	C5	Pole P5	6.41		
1	1	C6	Pole P6	6.41		
1	1	C7	Pole P7	6.41		
1	1	C8	Pole P1,P2	0.60		

	ZONE SCHEDULE					
			CIRCUIT DESCRIPTION			
ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	POLE ID	CONTACTOR ID		
Zone 1	1	Multipurpose	P1	C1		
			P2	C2		
			P3	C3		
			P4	C4		
			P5	C5		
			P6	C6		
			P7	C7		
Zone 2	2	Security	P1	C8		
			P2	C8		