Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 1 of 3

Distribution Panel Location/ID: Panel TC1

#### **Project Information**

**Control System** 

Control System ID:

Control System Type: Control-Link © Control and Monitoring

System

**Project Notes:** 

Off/On/Auto switches

Communication Type:

PowerLine-ST

**Power Requirements** 

Control cabinet(s):

Control voltage (phase to neutral)
VA loading - Inrush

VA loading - Sealed

**Lighting Circuits:** 

Voltage/Hertz/Phase

	Equipment Listing						
120/60	Description	Qty	Size (in)				
•	Control and monitoring cabinet - primary	1	24 X 48				
	Contactors, 30 amperes	5	-				
240/60/1	Contactors, 60 amperes	1	-				

5

#### **Important Notes:**

- 1. Please confirm that the lighting circuit voltage listed above is accurate for this facility. This is the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate 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 location. Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- 3. One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
- 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. Size overcurrent devices using the full load amps column of the Circuit Summary by Switch chart (Minimum power factor is 0.9). Size conduit per code unless otherwise specified as larger to allow for harness connectors.
- 6. Avoid use of in-ground junction/pull boxes when possible. If used, all wire connectors must be UL listed for Wet Locations to prevent leakage current.
- 7. Control power wiring must be in separate conduit from line or load power wiring. Communication cables must be in separate conduit from any power wiring.
- 8. Refer to Installation Instructions for more details on equipment information and the installation requirements.



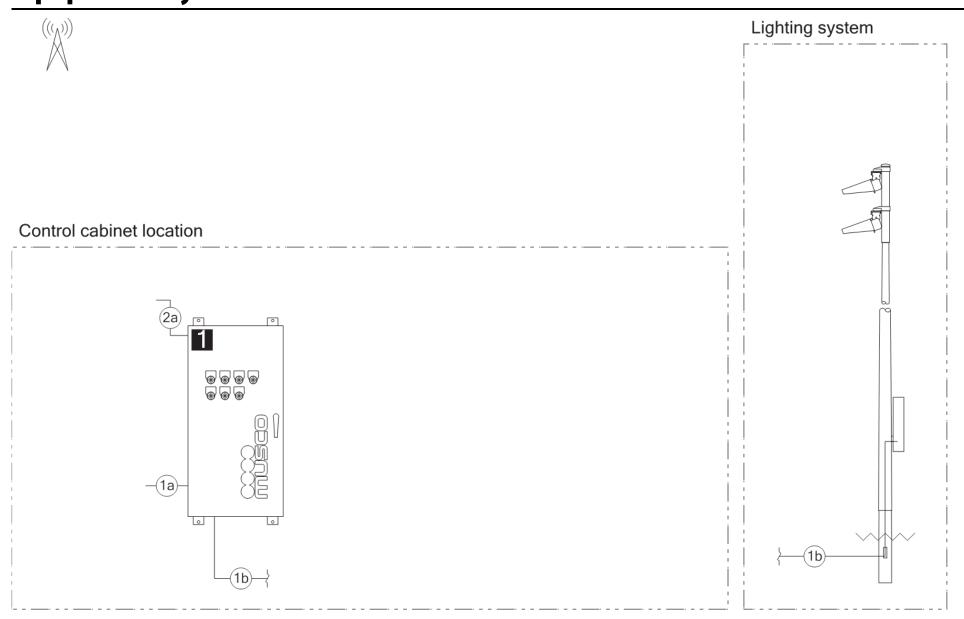
\*\*\*.musco.com | lighting@musco.com

Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 1 of 3

Distribution Panel Location/ID: Panel TC1

### **Equipment Layout and Connection Details**



	Connection Details
ID	Description
1a	Line power to contactors, and equipment grounding conductor. Requires one

- circuit per contactor, size wiring per load and voltage drop.
- 1b Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
- Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

	Equipment
ID	Description

Control and monitoring cabinet primary



Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 1 of 3

Distribution Panel Location/ID: Panel TC1

### **Circuit Summary**

Switching Sche	dule
Field/Switch Description	Switches
Tennis 1 USTA	1
Tennis 2-3 USTA	2
Tennis 4 USTA	3
Tennis 5 USTA	4
Tennis 20 USTA	5

#### **Control Module ID: 1**

#### **Lighting Circuit Voltage: 240/60/1**

		Circuit S	Summary b	y Switch			
Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Tennis 1 USTA	T1, T2, T3, T4	8	22.16	30	1	C1
2	Tennis 2 USTA	T10, T5	6	20.12	30	1	C2
	Tennis 2 USTA	T6, T7	6	20.12	30	1	C3
3	Tennis 4 USTA	T10, T7, T8, T9	8	22.16	30	1	C4
4	Tennis 5 USTA	T10,T11,T12, T9	8	22.16	30	1	C5
5	Tennis 20 USTA	T22, T23, T24, T25	16	44.32	60	1	C6



Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 2 of 3

Distribution Panel Location/ID: Panel TC2

#### **Project Information**

**Control System** 

**Control System ID:** 

Control System Type:

Control-Link® Control and Monitoring

System

120/60

2043.0

232.0

240/60/1

Communication Type:

PowerLine-ST

**Power Requirements** 

Control cabinet(s):

Control voltage (phase to neutral) **VA loading - Inrush VA loading - Sealed** 

**Lighting Circuits:** 

Voltage/Hertz/Phase

**Project Notes:** 

Off/On/Auto switches

	<b>Equipment Listing</b>				
)	Description	Qty	Size (in)		
)	Control and monitoring cabinet - primary	1	24 X 48		
	Contactors, 30 amperes	4	-		
	Contactors, 60 amperes	2	-		

2

#### **Important Notes:**

- 1. Please confirm that the lighting circuit voltage listed above is accurate for this facility. This is the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate 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 location. Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
- 3. One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
- 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. Size overcurrent devices using the full load amps column of the Circuit Summary by Switch chart (Minimum power factor is 0.9). Size conduit per code unless otherwise specified as larger to allow for harness connectors.
- 6. Avoid use of in-ground junction/pull boxes when possible. If used, all wire connectors must be UL listed for Wet Locations to prevent leakage current.
- 7. Control power wiring must be in separate conduit from line or load power wiring. Communication cables must be in separate conduit from any power wiring.
- 8. Refer to Installation Instructions for more details on equipment information and the installation requirements.

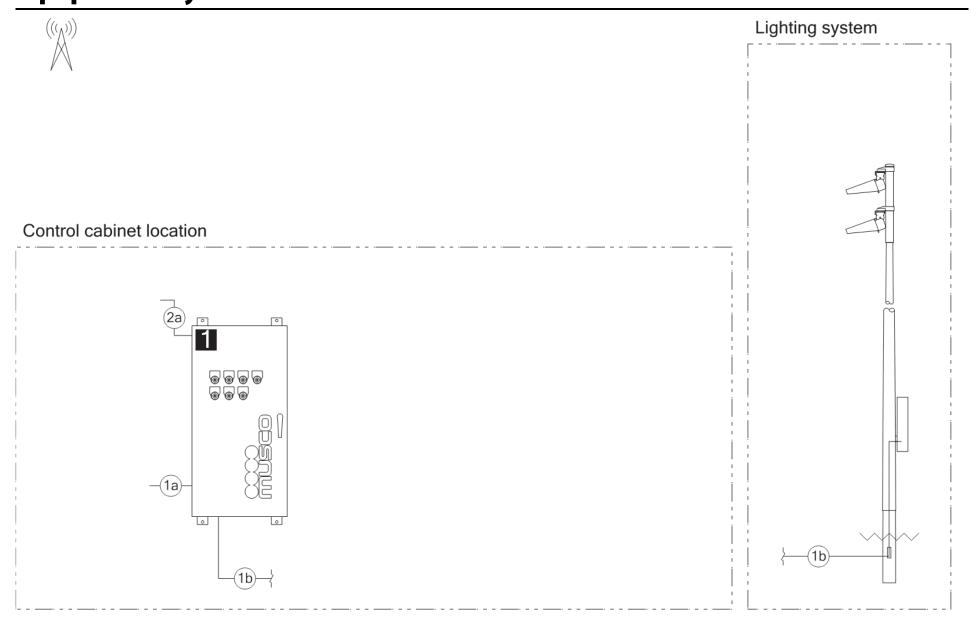


Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 2 of 3

Distribution Panel Location/ID: Panel TC2

### **Equipment Layout and Connection Details**



	Connection Details
ID	Description
1a	Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.

- 1b Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
- Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

	Equipment
ID	Description

Control and monitoring cabinet primary



Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 2 of 3

Distribution Panel Location/ID: Panel TC2

# **Circuit Summary**

Switching Schedule	
Field/Switch Description	Switches
Tennis 6 USTA	1
Tennis 9-10 USTA	2

#### **Control Module ID: 2**

**Lighting Circuit Voltage: 240/60/1** 

	Circuit Summary by Switch						
Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Tennis 6 USTA	T13, T14	8	32.66	60	2	C1
	Tennis 6 USTA	T17, T18	8	32.66	60	2	C2
2	Tennis 10 USTA	T14	4	21.04	30	2	C3
	Tennis 10 USTA	T15	4	21.04	30	2	C4
	Tennis 10 USTA	T16	4	21.04	30	2	C5
	Tennis 10 USTA	T17	4	21.04	30	2	C6



Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 3 of 3

Distribution Panel Location/ID: Panel TC3

#### **Project Information**

**Control System** 

**Control System ID:** 

Control System Type:

Control-Link® Control and Monitoring

System

**Project Notes:** 

Off/On/Auto switches

Communication Type:

PowerLine-ST

**Power Requirements** 

Control cabinet(s):

Control voltage (phase to neutral) **VA loading - Inrush** 

**Lighting Circuits:** 

Voltage/Hertz/Phas

**VA loading - Sealed** 

	Equipment Listing					
120/60	Description	Qty	Size (in)			
-	Control and monitoring cabinet - primary	1	24 X 48			
	Contactors, 30 amperes	4	-			
240/60/1	Contactors, 60 amperes	2	-			

2

#### **Important Notes:**

- 1. Please confirm that the lighting circuit voltage listed above is accurate for this facility. This is the voltage/phase being connected and utilized at each lighting pole's electrical components enclosure disconnect. Inaccurate 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 location. Musco's single phase luminaires come pre-wired to utilize all 3 phases across the entire facility.
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- 8. Refer to Installation Instructions for more details on equipment information and the installation requirements.

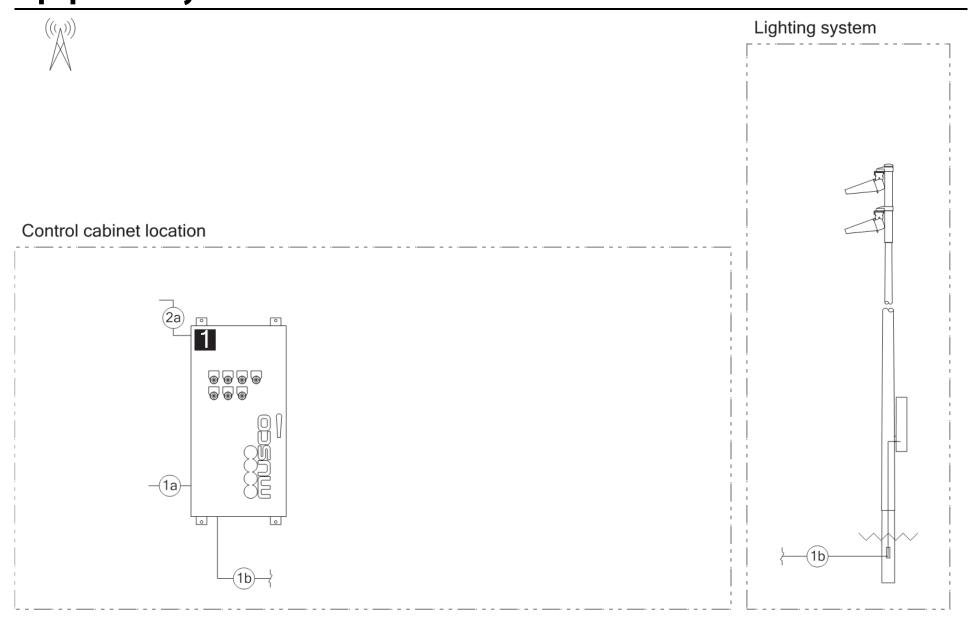


Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 3 of 3

Distribution Panel Location/ID: Panel TC3

### **Equipment Layout and Connection Details**



	Connection Details
ID	Description
1a	Line power to contactors, and equipment grounding conductor. Requires one

- 1a Line power to contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
- 1b Load power from contactors, and equipment grounding conductor. Requires one circuit per contactor, size wiring per load and voltage drop.
- 2a Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

Equipment						
ID	Description					

Control and monitoring cabinet - primary



Project Name: Holiday Park Tennis And Pickleball | Project #: 227818

Control System ID: 3 of 3

Distribution Panel Location/ID: Panel TC3

# **Circuit Summary**

Switching Schedule							
Field/Switch Description	Switches						
Tennis 14-15 USTA	1						
Tennis 18-19 USTA	2						

#### **Control Module ID: 3**

**Lighting Circuit Voltage: 240/60/1** 

Circuit Summary by Switch										
Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID			
1	Tennis 13 USTA	T17, T18	8	32.66	60	3	C1			
	Tennis 13 USTA	T20, T26	8	32.66	60	3	C2			
2	Tennis 16 USTA	T16	4	21.04	30	3	C3			
	Tennis 16 USTA	T17	4	21.04	30	3	C4			
	Tennis 16 USTA	T26	4	21.04	30	3	C5			
	Tennis 16 USTA	T28	4	21.04	30	3	C6			

