

James Park Athletic Lighting

Bid # 23-39

ADDENDUM No. 1

August 8, 2023

Any and all changes to the Contract Document are valid only if they are included by written addendum to all potential respondents, which will be mailed, emailed and/or faxed prior to the bid due date to all who are known to have received a complete bid document. Each respondent must acknowledge receipt of any addenda by indicating on the Bid Form. Each respondent, by acknowledging receipt of any addenda, is responsible for the contents of the addenda and any changes to the bid proposal therein. Failure to acknowledge receipt of any addenda may cause the bid to be rejected. If any language or figures contained in this addendum are in conflict with the original document, this addendum shall prevail.

This addendum consists of the following:

1. Addendum Number One (1) is attached and consists of a total of ten (10) pages including this cover sheet. Any changes to the drawings or specifications noted within Addendum Number One (1) will be reflected in subsequent drawing issues.

Please feel free to call (847-866-2910) or email (lithomas@cityofevanston.org) with any questions or comments.

Sincerely,

Linda Thomas
Purchasing Specialist

James Park Athletic Lighting

Bid # 23-39

ADDENDUM No. 1

August 8, 2023

This addendum forms a part of the Specifications and Bid Documents for Bid #23-39 and modifies these documents. This addendum consists of the following:

Drawings:

Sheet E400

Replace sheet E400 with the attached update. This update includes a revised panel schedule for panel LP-3.

Attachments:

Attachment 5

Replace Attachment 5 with the attached update. This update includes modifications to coordinate with the construction plans.

Pre-Bid meeting sign in sheet.

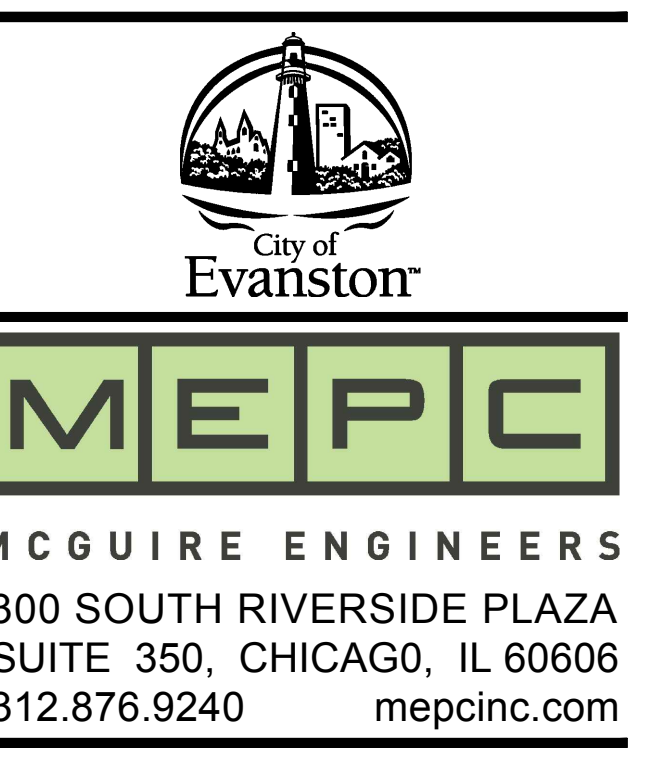
Note: Acknowledgment of this Addendum is required in the Bid.

NEW PANELBOARD SCHEDULE											PROJECT: JAMES PARK ATHLETIC FIELD LIGHTING										
NAME: LP-2											MAIN: MLO										
VOLTAGE: 480Y/277											MOUNTING: SURFACE										
PHASEWIRE: 3PH 4W											ENCLOSURE: NEMA 1										
SVC ENTRANCE: NO											BUS: 200A NEUTRAL: 100% INTEGRAL SPD: NO										
NO.	LOAD DESCRIPTION	OCPD AMPS	DEVICE OPTIONS	VA/PHASE			VA/PHASE			DEVICE OPTIONS	OCPD AMPS	LOAD DESCRIPTION	NO.								
				A	B	C	A	B	C												
1	POLE A1	20		2500			2500				20	POLE A2	2								
3				2500			2500						4								
5					2500			2500						6							
7				3907	3097		3907	3097						8							
9	POLE B1	20		3907			3907				20	POLE B2	10								
11					3097			3097						12							
13	POLE C1	20		3907			3907				20	POLE C2	14								
15				3907	3097		3907	3097						16							
17					3097			3097						18							
19						4800			4800						20						
21	POLE D1	20		3907			4800				25	POLE D2	22								
23					3907			4800						24							
25	SECURITY	15		665							20	SPARE	26								
27				665										28							
29					665										30						
31															32						
33	SPARE	20									20	SPARE	34								
35	SPARE	20									20	SPARE	36								
37	SPARE	20									20	SPARE	38								
39	SPARE	20									20	SPARE	40								
41	SPARE	20									20	SPARE	42								
SUB-TOTAL				14076	13266	13266	15114	15114	14304	SUB-TOTAL											
TOTAL A PHASE:				29190 VA			TOTAL CONNECTED LOAD:				85.14 KVA										
TOTAL B PHASE:				28380 VA			TOTAL DEMAND LOAD:				102.41 AMPS										
TOTAL C PHASE:				27570 VA							128.01 AMPS										
REMARKS:																					
All branch breakers shall be switching duty (SWD) type																					
LEGEND: ST = SHUNT TRIP, GFI = GROUND FAULT INTERRUPTER (PERSONNEL), DL = DOUBLE LUG, FT = FEED THRU											6/9/2023 15:14										

NEW PANELBOARD SCHEDULE											PROJECT: JAMES PARK ATHLETIC FIELD LIGHTING										
NAME: LP-2											MAIN: 60A MB										
VOLTAGE: 208Y/120											MOUNTING: SURFACE										
PHASEWIRE: 3PH 4W											ENCLOSURE: NEMA 1										
SVC ENTRANCE: NO											BUS: 100A NEUTRAL: 100% INTEGRAL SPD: NO										
NO.	LOAD DESCRIPTION	OCPD AMPS	DEVICE OPTIONS	VA/PHASE			VA/PHASE			DEVICE OPTIONS	OCPD AMPS	LOAD DESCRIPTION	NO.								
				A	B	C	A	B	C												
1	POLE RECPTACLE	20		180			180				20	POLE RECPTACLE	2								
3				180			180						4								
5					180			180						6							
7				180	180		180	180						8							
9	POLE RECPTACLE	20		180			180				20	POLE RECPTACLE	10								
11					180			180						12							
13	POLE RECPTACLE	20		180			180				20	SPARE	14								
15				180			180						16								
17														18							
19														20							
21	SPARE	20									20	SPARE	22								
23	SPARE	20									20	SPARE	24								
25	SPARE	20									20	SPARE	26								
27	SPARE	20									20	SPARE	28								
29	SPARE	20									20	SPARE	30								
31	SPARE	20									20	SPARE	32								
33	SPARE	20									20	SPARE	34								
35	SPARE	20									20	SPARE	36								
37	SPARE	20									20	SPARE	38								
39	SPARE	20									20	SPARE	40								
41	SPARE	20									20	SPARE	42								
SUB-TOTAL				540	540	360	360	360	360	SUB-TOTAL											
TOTAL A PHASE:				900 VA			TOTAL CONNECTED LOAD:				2.52 KVA										
TOTAL B PHASE:				900 VA			TOTAL DEMAND LOAD:				6.99 AMPS										
TOTAL C PHASE:				720 VA							2.52 KVA										
REMARKS:																					
All branch breakers shall be switching duty (SWD) type																					
LEGEND: ST = SHUNT TRIP, GFI = GROUND FAULT INTERRUPTER (PERSONNEL), DL = DOUBLE LUG, FT = FEED THRU											6/9/2023 15:00										

ALTERNATE #1

NEW PANELBOARD SCHEDULE											PROJECT: JAMES PARK ATHLETIC FIELD LIGHTING										
NAME: LP-3											MAIN: MLO										
VOLTAGE: 480Y/277											MOUNTING: SURFACE										
PHASEWIRE: 3PH 4W											ENCLOSURE: NEMA 1										
SVC ENTRANCE: NO											BUS: 100A NEUTRAL: 100% INTEGRAL SPD: NO										
NO.	LOAD DESCRIPTION	OCPD AMPS	DEVICE OPTIONS	VA/PHASE			VA/PHASE			DEVICE OPTIONS	OCPD AMPS	LOAD DESCRIPTION	NO.								
				A	B	C	A	B	C												
1	POLE T1	20		951			951				20	POLE T2	2								
3				951			951						4								
5					951			951						6							
7				1067	1067		1067	1067						8							
9	POLE T3	20		1067			1067				20	POLE T4	10								
11					1067			1067						12							
13	POLE T5	20		564			564				20	POLE T6	14								
15				564			564						16								
17														18							
19														20							
21	POLE T3	20		1067			1067				20	POLE T4	22								
23					1067			1067						24							
25	SECURITY	15		665							20	SPARE	26								
27				665										28							
29					665										30						
31															32						
33	SPARE	20									20	SPARE	34								
35	SPARE	20									20	SPARE	36								
37	SPARE	20									20	SPARE	38								
39	SPARE	20									20	SPARE	40								
41	SPARE	20									20	SPARE	42								
SUB-TOTAL				4314	4314	4314	3649	3649	3649	SUB-TOTAL											
TOTAL A PHASE:				7963 VA			TOTAL CONNECTED LOAD:				23.89 KVA										
TOTAL B PHASE:				7963 VA			TOTAL DEMAND LOAD:				28.73 AMPS										
TOTAL C PHASE:				7963 VA							29.86 KVA										
REMARKS:																					
All branch breakers shall be switching duty (SWD) type																					
L: LIGHTING LOAD TYPE																					
R: RECEPTACLE LOAD TYPE																					
LEGEND: ST = SHUNT TRIP, GFI = GROUND FAULT INTERRUPTER (PERSONNEL), DL = DOUBLE LUG, FT = FEED THRU											6/8/2023 7:13										



System Requirements: Control System Summary

Project Name: James Park Baseball Football | Project #: 141525

Control System ID: 1 of 2

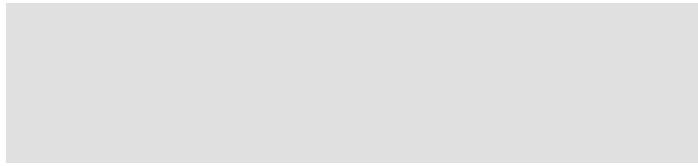
Distribution Panel Location/ID: Baseball/Football

Project Information

Control System

Control System ID: 1 of 2
 Control System Type: Control-Link® Control and Monitoring System
 Communication Type: PowerLine-ST

Project Notes:



Power Requirements

Control cabinet(s):
 Control voltage (phase to neutral) 120/60
 VA loading - Inrush 2778.0
 VA loading - Sealed 310.0

Lighting Circuits:
 Voltage/Hertz/Phase 480/60/3

Equipment Listing

Description	Qty	Size (in)
Control and monitoring cabinet - primary	1	24 X 72

Important Notes:

- 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.
- 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.
- One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
- If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
- 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.
- 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.
- 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.
- Refer to Installation Instructions for more details on equipment information and the installation requirements.

System Requirements: Control System Summary

Project Name: James Park Baseball Football | Project #: 141525

Control System ID: 1 of 2

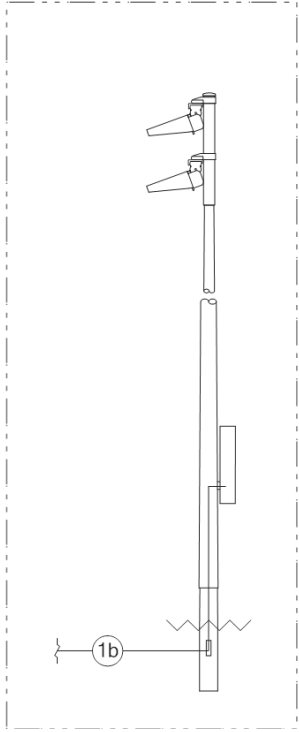
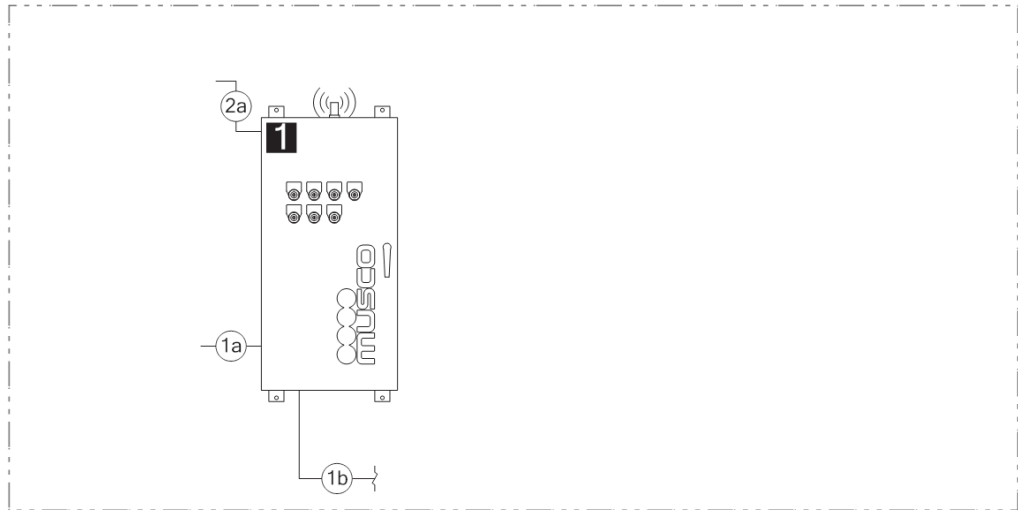
Distribution Panel Location/ID: Baseball/Football

Equipment Layout and Connection Details



Lighting system

Control cabinet location



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.
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

Equipment

ID	Description
1	Control and monitoring cabinet - primary

System Requirements: Control System Summary

Project Name: James Park Baseball Football | Project #: 141525

Control System ID: 1 of 2

Distribution Panel Location/ID: Baseball/Football

Circuit Summary

Switching Schedule

Field/Switch Description	Switches
Baseball/Football	1,2
Baseball/Football	1
Security	2

Control Module ID: 1

Lighting Circuit Voltage: 480/60/3

Circuit Summary by Switch

Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Baseball/Football	A1	5	8.49	30	1	C1
	Baseball/Football	A2	5	9.07	30	1	C2
	Baseball/Football	B1	7	12.91	30	1	C3
	Baseball/Football	B2	7	14.07	30	1	C4
	Baseball/Football	C1	7	14.07	30	1	C5
	Baseball/Football	C2	7	14.07	30	1	C6
	Baseball/Football	D1	7	14.07	30	1	C7
	Baseball/Football	D2	8	17.28	30	1	C8
2	Security	A1, A2, B1, B2, C1, C2, D1, D2	8	1.14	30	1	C9

System Requirements: Control System Summary

Project Name: James Park Baseball Football | Project #: 141525

Control System ID: 2 of 2

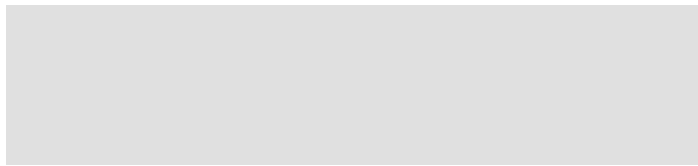
Distribution Panel Location/ID: Tennis

Project Information

Control System

Control System ID: 2 of 2
 Control System Type: Control-Link® Control and Monitoring System
 Communication Type: PowerLine-ST

Project Notes:



Power Requirements

Control cabinet(s):

Control voltage (phase to neutral) 120/60
 VA loading - Inrush 2778.0
 VA loading - Sealed 310.0

Lighting Circuits:

Voltage/Hertz/Phase 480/60/3

Equipment Listing

Description	Qty	Size (in)
Control and monitoring cabinet - primary	1	24 X 72

Important Notes:

- 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.
- 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.
- One contactor is required for each circuit at each pole location. Contactors are 3 pole and 100% rated for the published continuous load.
- If the lighting system will be fed from more than one distribution location, additional equipment may be required. Contact your Musco sales representative.
- 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.
- 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.
- 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.
- Refer to Installation Instructions for more details on equipment information and the installation requirements.

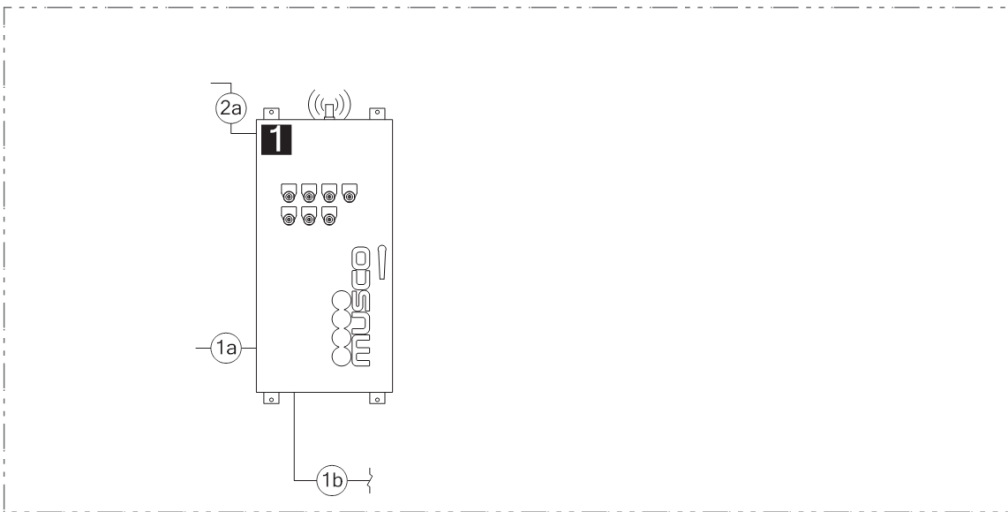
System Requirements: Control System Summary

Project Name: James Park Baseball Football | Project #: 141525
 Control System ID: 2 of 2
 Distribution Panel Location/ID: Tennis

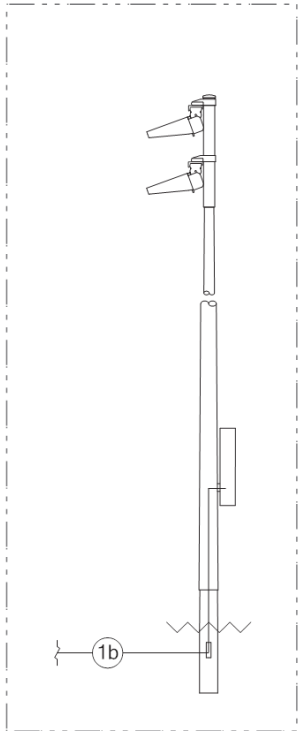
Equipment Layout and Connection Details



Control cabinet location



Lighting system



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.
2a	Control power with equipment ground to control cabinet. Requires dedicated 20 A circuit. Provide transformer if control voltage not present.

Equipment

ID	Description
1	Control and monitoring cabinet - primary

System Requirements: Control System Summary

Project Name: James Park Baseball Football | Project #: 141525

Control System ID: 2 of 2

Distribution Panel Location/ID: Tennis

Circuit Summary

Switching Schedule	
Field/Switch Description	Switches
Tennis 1-3	1,3
Tennis 1-3	1
Security	3
Tennis 4-6	2,3
Tennis 4-6	2
Security	3

Control Module ID: 2

Lighting Circuit Voltage: 480/60/3

Circuit Summary by Switch							
Switch	Zone Description	Pole ID	Qty of Fixtures	Full load amperes	Contactor Size (Amps)	Cabinet #	Contactor ID
1	Tennis 1-3	T1	3	3.43	30	2	C1
	Tennis 1-3	T2	3	3.43	30	2	C2
	Tennis 1-3	T3	3	3.85	30	2	C3
	Tennis 1-3	T4	3	3.85	30	2	C4
2	Tennis 4-6	T3	3	3.85	30	2	C5
	Tennis 4-6	T4	3	3.85	30	2	C6
	Tennis 4-6	T5	3	3.43	30	2	C7
	Tennis 4-6	T6	3	3.43	30	2	C8
3	Security	T1, T2, T3, T4,	6	1.14	30	2	C9
		T5, T6					

