

P462-14623

ADDENDUM NUMBER 1

DINEEN PARK TENNIS COURTS
Site # 684
6901 West Vienna Street
Milwaukee, WI

Project Number: P462-14623

Date of Addendum: June 4, 2014

This Addendum to the Contract Documents is issued to modify, explain or correct the original documents, dated April 18, 2014, and is hereby made part of the Contract Documents. Acknowledge receipt of this Addendum in the space provided on the Bid Form, or bid may be rejected.

PLAN SET

Remove Sheet 15 from plan set and replace with Sheet 15A attached to this addendum.

SPECIFICATIONS

Document 00410 Bid Form

Page 00410-2 Substantial Completion of the Work shall be changed from September 5, 2014 to November 14, 2014. Tennis posts, rings, and net system and the color coating and striping of the five tennis courts shall be completed by June 1, 2015.

Document 00410 Bid Form

Remove page 00410-3.7 and page 00410-3.8 from the bid form and replace with page 00410-3.7A and 00410-3.8A. Item number 41A has been added.

Document 00410 Bid Form

Bid item number 46, Fencing Fabric (Restoration) clarification.

The preparation work required before painting posts and rails includes scraping away loose paint and blending edges of existing paint by grinding or sanding. Sand blasting the posts and rails is not required.

Sections 16010 through Section 16525

Add Push Button detail sheet to tennis court lighting. Cost for push button and associated work to be included with Bid Item #41.

Sections 16010 through Section 16525

Remove Musco Lighting Control Summary Sheets from specifications and Replace with revised Musco Lighting Control System Summary Sheets A-1 through Sheet A-4

Sections 16010 through Section 16525

Add Single Line Distribution for clarification of electrical system

End of Addendum No. 1

PROJECT NO. P462-14623
SCHEDULE OF PRICES
FOR: Dineen Park Tennis Courts
AT: 6901 W. Vienna Street
Milwaukee, Wisconsin

Note: Bidder must state prices in words and figures and sign proposal.

Item No.	Approx. Quantities	Items With Unit Bid Price Written in Words	Unit Price in Figures	Total Amount of Bid
<u>BASE BID</u>				
37	4 Each	3 Tier aluminum bleacher, 7-1/2 foot long. Anchor to concrete. Includes accessories _____		
		Per Each		
38	1 Each	Bicycle Rack (3 dock), including footings and accessories. _____		
		Per Each		
39	5 Each	New "Recyclables" receptacle or "trash" receptacle Including post, lock and chain per pair. _____		
		Per Each		
40	2,250 Square Yards	Seed turf restoration, including furnishing and placing topsoil, seedbed preparation, seed, fertilizer, and mulch. _____		
		Per Square Yard		
41	1 Lump Sum	Provide tennis court lighting as specified in Sections 16010 through Section 16525. Includes removal of lighting as indicated on plans. _____		
		Lump Sum		
41A	120 Lineal Feet	Install salvaged chainlink fence from existing tennis court. Provide new posts, footings and rails. _____		
		Per Lineal Foot		

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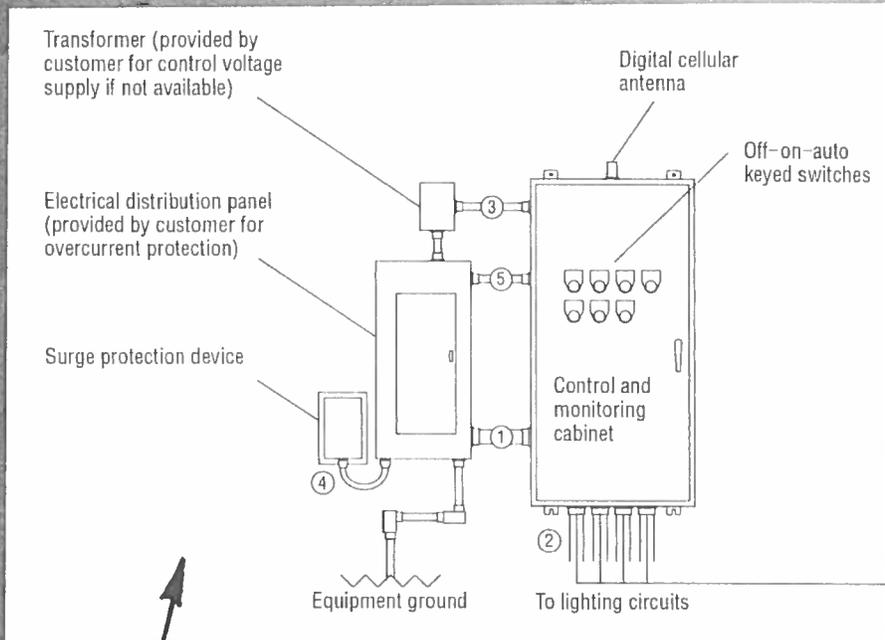
Item No.	Approx. Quantities	Items With Unit Bid Price Written in Words	Unit Price in Figures	Total Amount of Bid
<u>BASE BID</u>				
42	Lump Sum	Miscellaneous allowance <u>Ten Thousand Dollars and 00/100</u> Lump Sum	\$10,000.00	\$10,000.00

ALTERNATIVE BID A - PULVERIZE REMAINING PARKING LOT AND PAVE

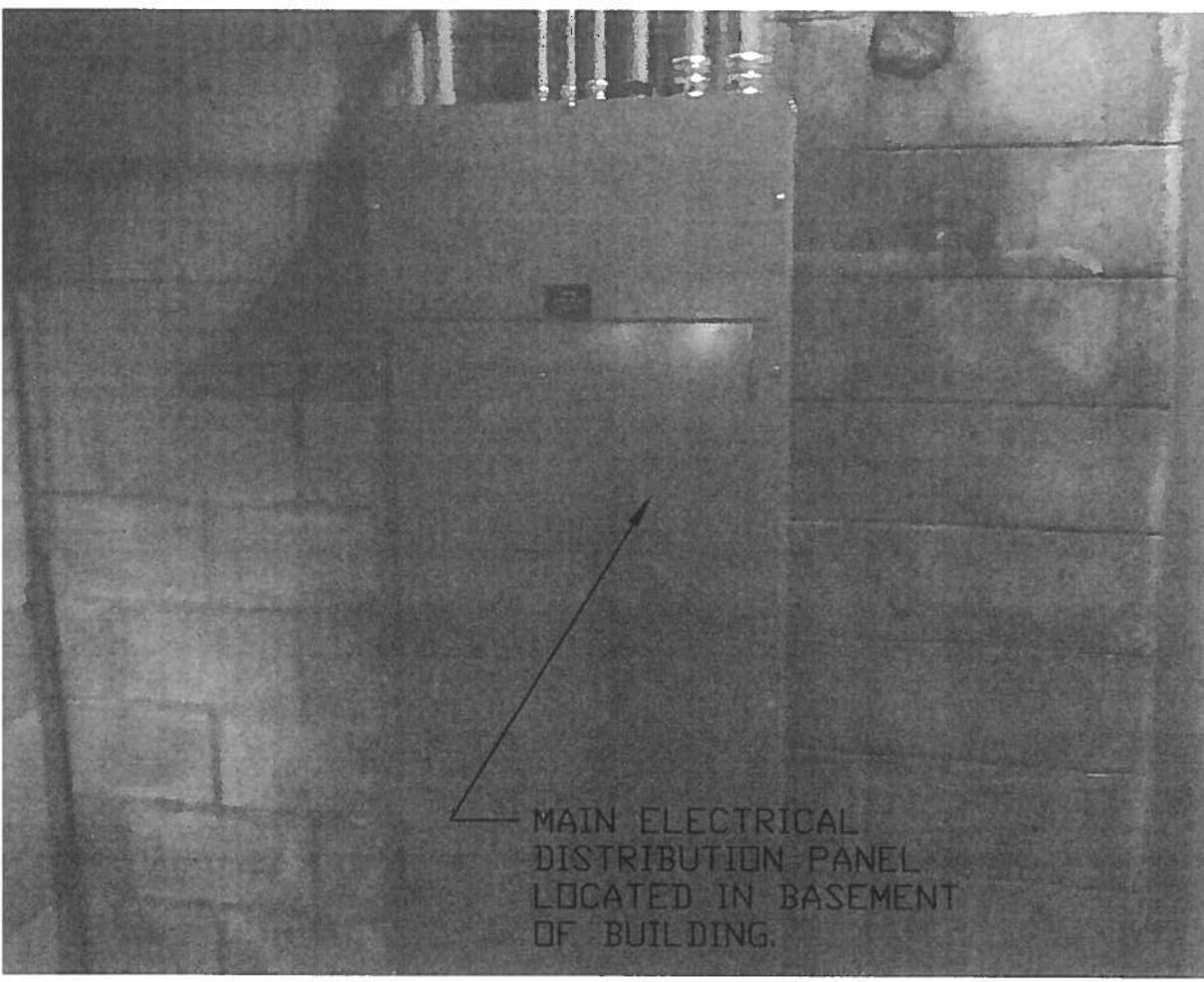
43	1,000 Square Yards	Pulverize existing asphaltic pavement and mix with existing granular base, grade and compact mixture to proper grade and section. Includes sawcutting at butt joints. _____ Per Square Yard		
44	120 Tons	Asphaltic concrete lower layer per specifications. Type E-1 _____ Per Ton		
45	90 Tons	Asphaltic concrete upper layer per specifications including tack coat applied to asphaltic concrete lower layer. Type E-1 _____ Per Ton		

ALTERNATIVE BID B - FENCING FABRIC (RESTORATION)

46	544 Lineal Feet	Fencing Fabric (Restoration). Includes painting posts, rails, new tension wire, new fabric and accessories. Note that posts and rails are new on west line and were replaced as part of base bid. _____ Per Lineal Foot		
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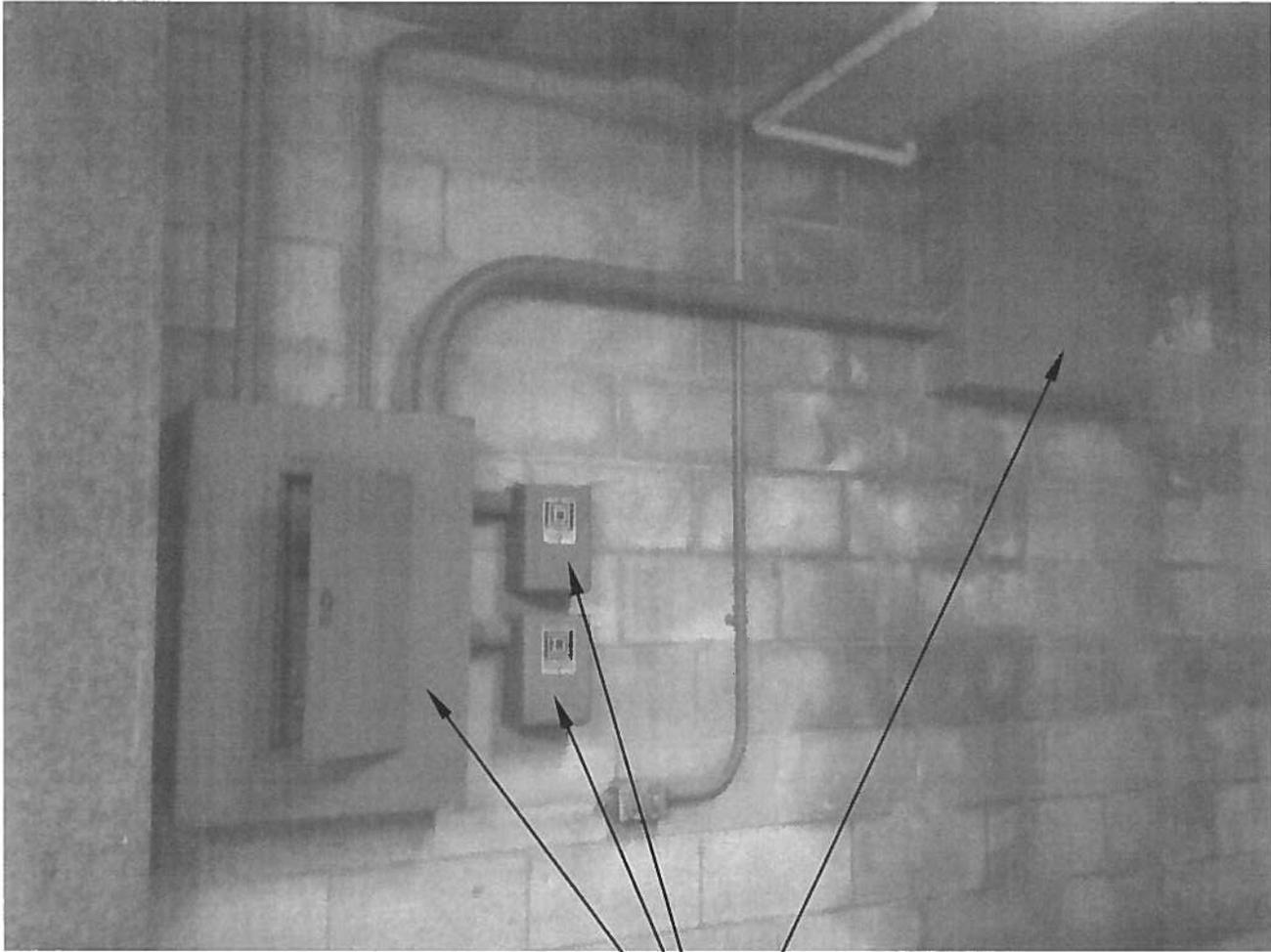


PROVIDE SURGE PROTECTION DEVICE AND CONTROL AND MONITORING CABINET AND MOUNT ON EMPTY WALL ADJACENT TO PANEL "C".



MAIN ELECTRICAL DISTRIBUTION PANEL LOCATED IN BASEMENT OF BUILDING.

BY		DATE		REVISION	
MILWAUKEE COUNTY DEPARTMENT OF Administrative Services Architecture, Engineering & Environmental Services Section CITY CAMPUS 2711 W. WELLS ST. SECOND FLOOR MILWAUKEE, WI 53208					
					
PROJECT NO.	P462-14623	SITE NO.	684	PROJECT TITLE	DINEEN PARK TENNIS COURTS
SHEET NO.	15A	BUILDING NO.		SHEET DESCRIPTION:	TENNIS COURT LIGHTING
				DATE	4/18/14
				DRAWN BY:	DSG
				CHECKED BY:	KDS
				SCALE	
				FILE NO.	15 OF 15

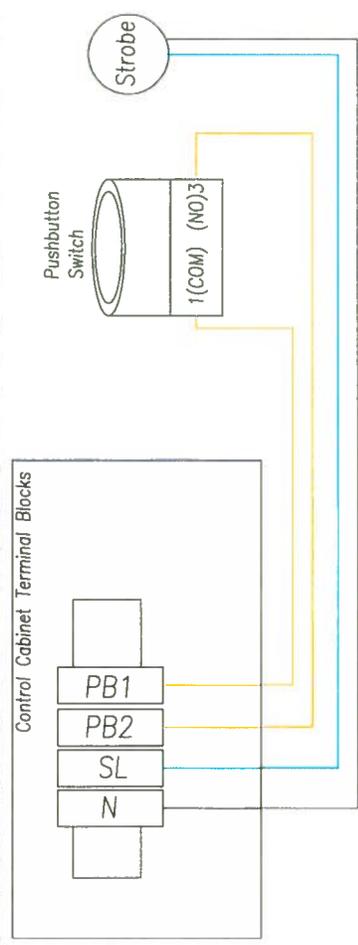


REMOVE AND SALVAGE EXISTING
PANEL "C" AND OTHER REMAINING
ELECTRICAL DEVICES AT OPPOSITE
END OF BASEMENT, +/- 75'

CONTRACTOR NOTE:
PROVIDE 100A FA SQUARE D BREAKER ON MAIN ELECTRICAL
DISTRIBUTION PANEL. RUN CONDUIT AND WIRE PER NEC
CODE TO CONTROL AND MONITORING CABINET.

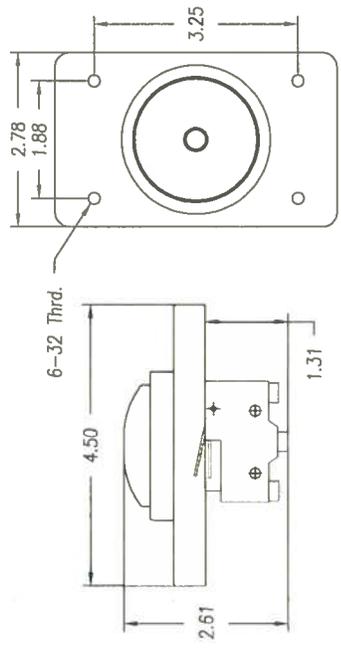
SEQUENCE OF OPERATION (Control-Link):

1. The OOA needs to be in the AUTO position. A schedule begins and the REC closes the I/O relay which sends control power to the pushbutton.
2. The pushbutton is pressed to turn on the lights. The contactors pull in, which also activates the holding circuit. The lights remain ON for the preset amount of time dictated by the timer dial T1 (Bottom Dial).
3. The timer times out and performs 2 functions.
 - 3.1. Power from the timer is sent to the strobe as a warning that the lights will extinguish in 'X' amount of time (dictated by dial T2 (Top Dial)), to turn off.
 - 3.2. The timer activates a count down for the circuit to turn off.
4. If the pushbutton is pressed again, before the strobe turns off, the lights will remain ON for another cycle.
5. If the pushbutton is NOT pressed again the strobe and lights will extinguish.



Contractor Wiring

- 2 wires for the pushbutton (12 AWG)
- 2 wires for the strobe light (12 AWG)



Controller

- Pushbutton Dimensions in inches
- Color: Black bezel and gray housing.
- Silver actuator
- Material: Machined SS actuator.
- Machined AL bezel
- Malleable iron housing
- Contact Current Rating: 15A (125VAC)
- Internal Ground Screw
- Torx Cover Screws (T-10)



Strobe Light
Dimensions in inches

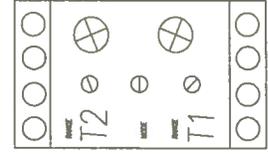
- Color: Amber
- Flash Rate/Minute: 90
- Candlepower Peak: 1,000,000
- Effective Candlepower: 300
- MEYERS HUB: 1/2"NPT
- NIPPLE: 1/2"NPT CLOSE



Strobe

TIMER SETTINGS:

- Mode: A
- T2 (Time setting for Strobe Light)
 - Range: 1M (6 sec to 6 min)
 - Turn dial to 5 (5 min)
- T1 (Playing Time)
 - Range: 1H (6 min to 6 hr)
 - Turn dial to 1 (1 Hr)





Control System Summary

Project Specific Notes:

Project Information

Project #: 169062
 Project Name: Dineen Park Tennis
 Date: 05/16/14
 Project Engineer: NChizek
 Sales Representative: Greg Smidt
 Control System Type: Control and Monitoring
 Communication Type: Digital Cellular
 Scan: 169062A
 Document ID: 169062P1V1-0516085635
 Distribution Panel Location or ID: Service 1
 Total # of Distribution Panel Locations for Project: 1
 Design Voltage/Hertz/Phase: 208/60/3
 Control Voltage: 120

Equipment Listing

DESCRIPTION	APPROXIMATE SIZE
1. Control and Monitoring Cabinet	24 X 48
2. Surge Protection Device	6 X 10

	QTY	SIZE
Total Contactors	4	30 AMP
Total Off/On/Auto Switches:	1	

Materials Checklist

Contractor/Customer Supplied:

- A single 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
 - Thermal/Magnetic circuit breaker sized per full load amps on Circuit Summary by Zone Chart
- Wiring:
 - Dedicated control power circuit
 - Power circuit to and from lighting contactors
 - Monitoring circuit from surge protection device to Control and Monitoring cabinet 1
 - Harnesses for cabinets at remote locations
 - Means of grounding, including lightning ground protection
- 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
- Control circuit lock-on device to prevent unauthorized power interruption to control power
- Anti-corrosion compound to apply to ends of wire, if necessary

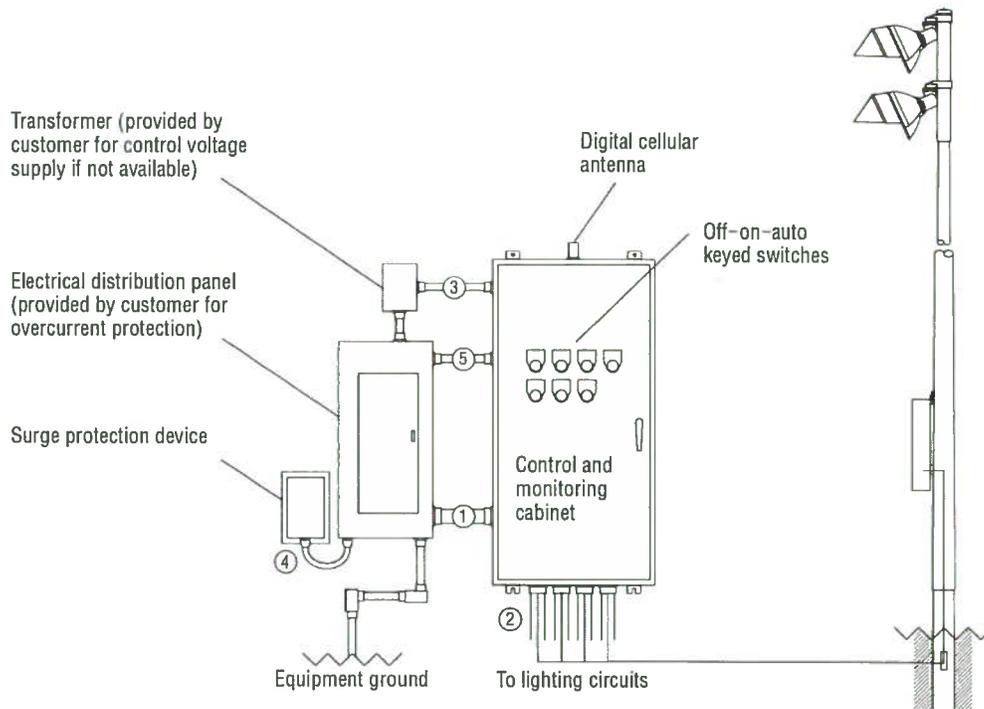
Call Control-Link Central(TM) operations center at 877/347-3319 to schedule activation of the control system upon completion of the installation.
 Note: Activation may take up to 1 1/2 hours

IMPORTANT NOTES

1. 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 ballast 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.
6. 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

Control-Link. Control and Monitoring System



Wire	Description	# of Wires	Typ. Wire Size (AWG)	Max. Wire Length (FT)	Wire from Musco	Notes
1	Line power to contactors, and equipment grounding conductor	Note A	Note B	27	No	A - E
2	Load power to lighting circuits	Note A	Note B	N/A	No	A - D
3	Control power (dedicated, 20A)	3	12	N/A	No	C, D
4	Surge protection device to distribution panel	--	--	N/A	Yes	F
5	Surge protection device monitoring	3	14	N/A	Yes	C, D, F

- Notes:
- A. Voltage and phasing per the notes on cover page.
 - B. Calculate per load and voltage drop.
 - C. All conduit diameters should be per code.
 - D. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.
 - E. Contact Musco if maximum wire length from circuit breaker to contactor exceeds value in chart.
 - F. Refer to surge protection device installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control (3) and monitoring (5) wires must be in separate conduit from line and load power wiring (1, 2).



Control System Summary

Dineen Park Tennis / 169062 - 169062A
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Form T-5030-1

SWITCHING SCHEDULE

Field/Zone Description	Zones
Tennis 1-2	1

CONTROL POWER CONSUMPTION	
120V Single Phase	
VA loading of Musco Supplied Equipment	INRUSH: 1568.0 SEALED: 194.8

BALLAST SPECIFICATIONS .90 Minimum Power Factor	VOLTAGE: 208v THREE PHASE						
BALLAST OPERATING VOLTAGE	208	220	240	277	347	380	480
1500 Watt Metal Halide Lamp Operating line amperage per fixture- maximum	8.6	8.3	7.5	6.5	5.1	4.7	3.7
1000 Watt Metal Halide Lamp Operating line amperage per fixture- maximum	6.5	6.4	5.8	4.9	4.0	3.6	2.9

CIRCUIT SUMMARY BY ZONE						
POLE	CIRCUIT DESCRIPTION	# OF FIXTURES	FULL LOAD AMPS	CONTACTOR SIZE (AMPS)	CONTACTOR ID	ZONE
T1	Tennis 1-2	3	17.2	30	C1	1
T2	Tennis 1-2	3	17.2	30	C2	1
T3	Tennis 1-2	3	17.2	30	C3	1
T4	Tennis 1-2	3	17.2	30	C4	1



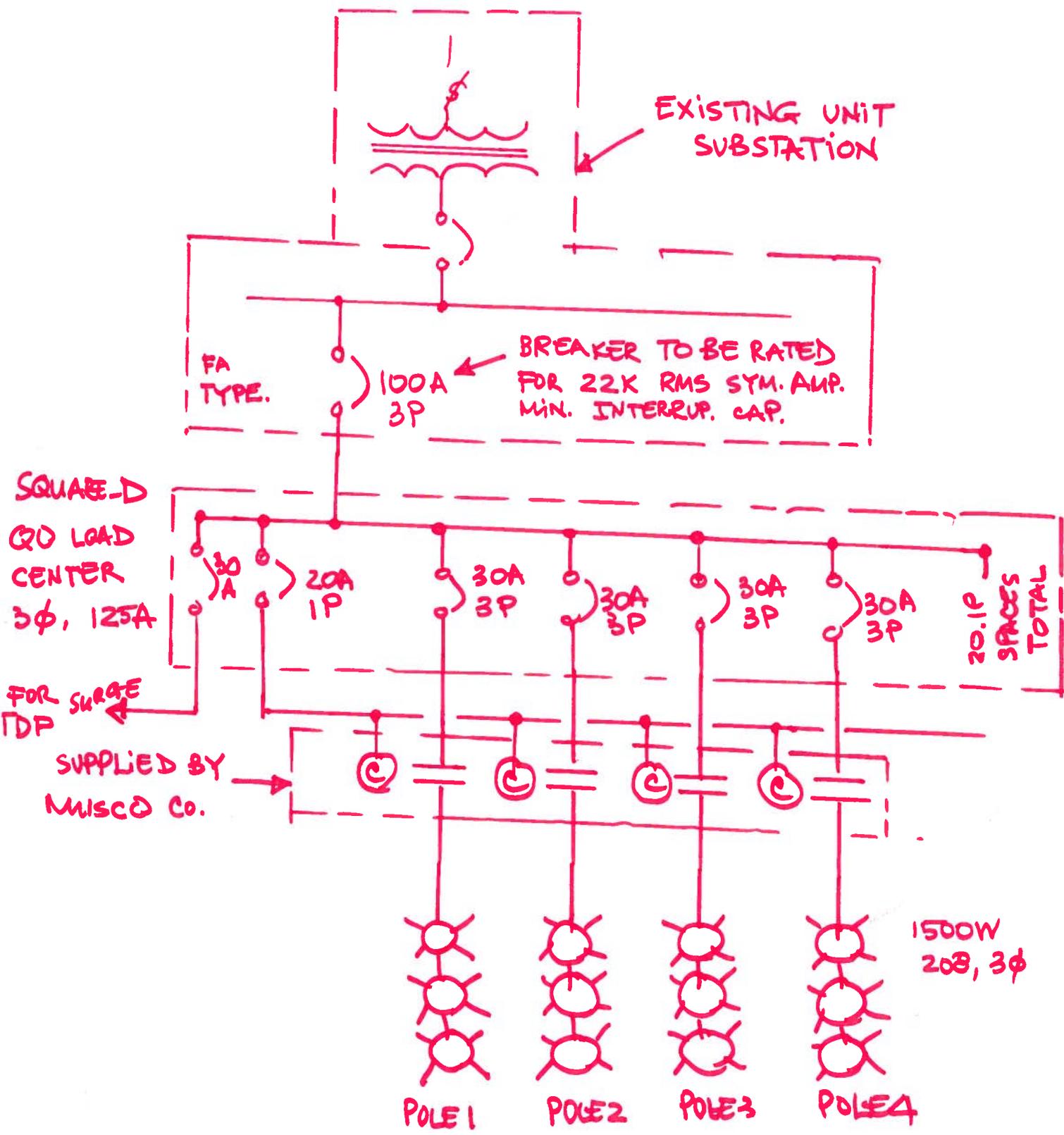
Control System Summary

Dineen Park Tennis / 169062 - 169062A
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Form T-5030-1

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 T1	17.20		
1	1	C2	Pole T2	17.20		
1	1	C3	Pole T3	17.20		
1	1	C4	Pole T4	17.20		

ZONE SCHEDULE				
ZONE	SELECTOR SWITCH	ZONE DESCRIPTION	CIRCUIT DESCRIPTION	
			POLE ID	CONTACTOR ID
Zone 1	1	Tennis 1-2	T1	C1
			T2	C2
			T3	C3
			T4	C4



SINGLE LINE DISTRIBUTION

A. TRAN
6/03/14