Request for Change Order

La Vernia ISD 2023 Bond Projects (**231091**)

,

No. RCO0101R1

Printed: September 29, 2026

Description	PR#92 - JHS Tennis Court Lighting Revisions	Date	2026-07-08
Status:	Pending Review	Days Impact:	

Scope of Work

IES: Credit original base bid cost to relocate Musco Light and associated trenching and electrical work. Add for removal and demolition of Musco light, provide new fixtures and retrofit the remaining 5 existing to optimize lighting for the area.

See backup after page 3 related to reasoning.

This cost is to be funded from the owner contingency allowance.

Alternate pricing to provide lighting for the back tennis court will be submitted under separate cover.
This RCO includes the brackets needed to add fixtures to poles T2 and T5 for the back court.
The additional light fixtures for the back court are not included in this pricing and will be addressed separately.

From	Description	Amount ($)
IES Commercial, Inc	Electrical and Fire Alarm	90,722.00
	Owner Contingency	-90,722.00

Total ($) **$0.00**

Submitted:

Bartlett Cocke General Contractors LLC

By: Alexander Ragland; Project Manager

Date: 9/29/2026

Approved:

Pfluger Architects, Inc

By: _____

Date: _____

No Exceptions as submitted.
Catherine Blackler, SPM - AGCM
October 13, 2026

IES Commercial, Inc.

COR #: 42

CONTRACTOR: BARTLETT COCKE

DATE: 9/29/2026

PROJECT: LA VERNIA ISD 2024

JOB #: 2311240018

DESCRIPTION: **PR#92, REVISE TENNIS COURT LIGHTING, REMOVE 1 MUSCO POLE EXCLUDES REMOVAL & HAUL OFF OF EXISTING MUSCO POLE LIGHT CONCRETE BASE EXISTING SECURITY LIGHTING WILL NOT FUNCTION WITH THE NEW LED LIGHTING NEW LIGHTING CAN WIRED IN ZONES IF LVISD WOULD LIKE TO MAINTAIN SECURITY LIGHTING. EXIST CONDUCTORS SHOULD CARRY THE LOAD. CONTINUED BELOW:**

DESCRIPTION	QUANTITY	UNIT TYPE	MAT. UNIT	MAT. EXT.	LABOR UNIT	LABOR EXT.
ORIGINAL LITECO QUOTE TO RELOCATE						
EXISTING POLE	-1		$12,370.00	-$12,370.00		
NEW LITECO QUOTE TO REVISE TENNIS COURT						
LIGHTING, REMOVE EXISTING MUSCO POLE LIGHT	1		$94,750.00	$94,750.00		
1" PVC	-30		$0.68	-$20.40	0.035	-1.050
1" PVC F/A	-2		$0.74	-$1.48		
1" ELBOW	-1		$3.80	-$3.80	0.250	-0.25
#10 THHN	-90		$0.32	-$28.80	0.014	-1.26
TRENCH	-30		$10.00	-$300.00		
MISC COORDINATION	8				1.000	8.00
IF EXISTING CONDUCTORS NEED TO BE REPLACED						
OR QTY OF CONDUCTORS INCREASED THIS WILL						
BE ADDRESS THIS AT A LATER DATE						

SUPERVISION & COOR.	$17.00
MISC. SUPPLIES	$6.80
LABOR	$299.20
BURDEN	$122.67
SMALL TOOLS	$3.40
MATERIALS	$82,025.52
SUBTOTAL	$82,474.59
10% PROFIT & OVERHEAD	$8,247.46
BOND	
Sales Tax	EXEMPT

TOTAL: **$90,722**

MATERIALS	$82,025.52	M.H.	5.44
		RATE	$55.00
LABOR			$299.20

PRICE VOID AFTER 30 DAYS

PLEASE SEE ATTACHED TERMS AND CONDITIONS

ACCEPTED BY:

DATE:

Marr, Brian - IESCI

From: Lori Wietstruck <liteco@att.net>
Sent: Tuesday, September 29, 2026 10:27 AM
To: Marr, Brian - IESCI
Subject: La Vernia Tennis

Good morning Brian,

Please see below the revised quote for the La Vernia Tennis project:

Provide Musco's Light Structure System - TLC for LED technology
Retrofit 5 existing tennis court poles
Demo and haul away one existing pole, existing sports lighting, and existing security fixtures
Quote does include Musco's 25 year warranty

Total Revised Proposal: $94,750.00

Thank you,
Lori Wietstruck

Liteco Electric, Inc.
P.O. Box 1265
Bellville, Texas 77418
Tele: 979.865.8113
www.litecoelectric.com

Ramirez, Jason - IESCI

From: Ramirez, Jason - IESCI
Sent: Monday, September 16, 2024 10:19 AM
To: Marr, Brian - IESCI
Subject: FW: LA VERNIA ISD JUNIOR HIGH

ORIGINAL QUOTE

From: Ramirez, Jason - IESCI
Sent: Wednesday, July 10, 2024 8:33 AM
To: Lori Wietstruck <liteco@att.net>
Subject: RE: LA VERNIA ISD JUNIOR HIGH

Thank you

Jason Ramirez
Estimator | IES ELECTRICAL
5320 George Cooper Rd. | San Antonio, TX 78247
Office 210.735.9111 | **Mobile** 210.347.7835
jason.ramirez@iesci.net | www.iesci.net
TECL 17790

From: Lori Wietstruck <liteco@att.net>
Sent: Wednesday, July 10, 2024 8:06 AM
To: Ramirez, Jason - IESCI <Jason.Ramirez@iesci.net>
Subject: Re: LA VERNIA ISD JUNIOR HIGH

Good morning Jason,

1. Demo the existing tennis court pole and fixtures
2. Auger foundation approximately 15' from existing foundation (36" x 12')
3. Install existing Musco pole and fixtures

Exclusions: any electrical, demolition of existing foundation

Extra costs will incur associated with foundation excavation in non-standard soils (rock, caliche, high water table, collapsing holes, etc.) Standard soils are defined as soils that can be excavated using standard earth auguring equipment.

Price Installed: $12,370.00

Thank you!
Lori

Liteco Electric, Inc.

Reason Option of 1 to 1 not viable.

Alexander Ragland

From: Marr, Brian - IESCI <Brian.Marr@ieselectrical.com>
Sent: Saturday, July 25, 2026 10:47 AM
To: Alexander Ragland
Subject: Fwd: La Vernia Tennis Lighting

Sent from my iPad

Brian Marr
Project Manager | IES ELECTRICAL
5320 George Cooper | San Antonio, TX 78247
Phone 210.735.9111 | **Mobile** 210.347.7803 | **Fax** 210.732.7531
Brian.Marr@ieselectrical.com | ieselectrical.com

Begin forwarded message:

> **From:** Lori Wietstruck <liteco@att.net>
> **Date:** July 24, 2026 at 2:39:59 PM CDT
> **To:** "Marr, Brian - IESCI" <Brian.Marr@ieselectrical.com>
> **Subject: Fwd: La Vernia Tennis Lighting**
>
> Good afternoon Brian,
>
> Please see below from Ben with Musco.
>
> Thanks!
> Lori
>
> Sent from my iPhone
> Liteco Electric, Inc.
> Office: 979.865.8113

Begin forwarded message:

> **From:** Ben Voelliger <ben.voelliger@musco.com>
> **Date:** July 24, 2026 at 10:20:25 AM CDT
> **To:** Lori Wietstruck <liteco@att.net>
> **Subject: La Vernia Tennis Lighting**
>
> Hey Lori
>
> Good speaking with you this morning. I called my engineer at Musco just to double check after we got off the phone and the 1 for 1 fixture replacement with LED would not be a good option here due to the fact it won't provide that good of playability on

the courts. The retrofit that I have already priced up to you, would give us the option for new pole tops and give us the ability to aim the new LED's as needed. Since they are removing a pole out here going back 1 for 1 makes it nearly impossible to achieve the needed photometrics. Let me know if you have any questions.

Thanks,

Ben Voelliger
Sales Representative
Musco Lighting
(512)-658-6884

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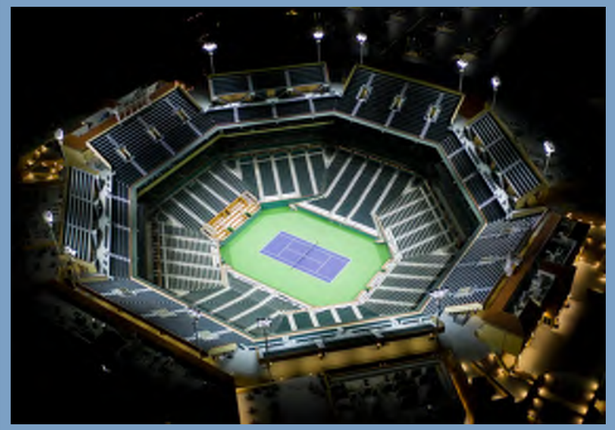
Temple ISD, Temple, Texas, USA

Riverdale Ridge High School, Thornton, Colorado, USA

Mt. San Antonio College, Walnut, California, USA



Indian Wells Tennis Garden, Indian Wells, California, USA

La Vernia High School Tennis Phase 2

La Vernia,TX

Sales Representative: Ben Voelliger · Designed By: L. Schlee · Design No.: 218769B · June 23, 2026

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La Vernia High School Tennis Phase 2

La Vernia,TX

LIGHTING SYSTEM

Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
T2	50'	50'	1	TLC-LED-900	0.88 kW	A
		50'	2	FUTURE	1.76 kW	C
		50'	2	TLC-LED-550	1.08 kW	A
T3	50'	50'	1	TLC-LED-1200	1.17 kW	A
		50'	2	TLC-LED-550	1.08 kW	A
T5	50'	50'	2	FUTURE	1.76 kW	C
		50'	3	TLC-LED-900	2.64 kW	A
		50'	3	TLC-LED-900	2.64 kW	B
T7	50'	50'	1	TLC-LED-900	0.88 kW	B
		50'	2	TLC-LED-550	1.08 kW	B
T8	50'	50'	1	TLC-LED-1200	1.17 kW	B
		50'	2	TLC-LED-550	1.08 kW	B
5			**22**		**17.22 kW**	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Tennis 3-4	6.85 kW	9
B	Tennis 5-6	6.85 kW	9
C	Future	3.52 kW	4

Fixture Type Summary

Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1200	A	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	1
TLC-LED-1200	B	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	1
TLC-LED-550	A	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	4
TLC-LED-550	B	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	4
TLC-LED-900	A	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	4
TLC-LED-900	B	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	4

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4

Light Level Summary

Calculation Grid Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Tennis 3-4	Horizontal Illuminance	51.71	33	61	1.86	1.58	A	9
Tennis 5-6	Horizontal Illuminance	52.92	34	62	1.83	1.56	B	9

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

musco
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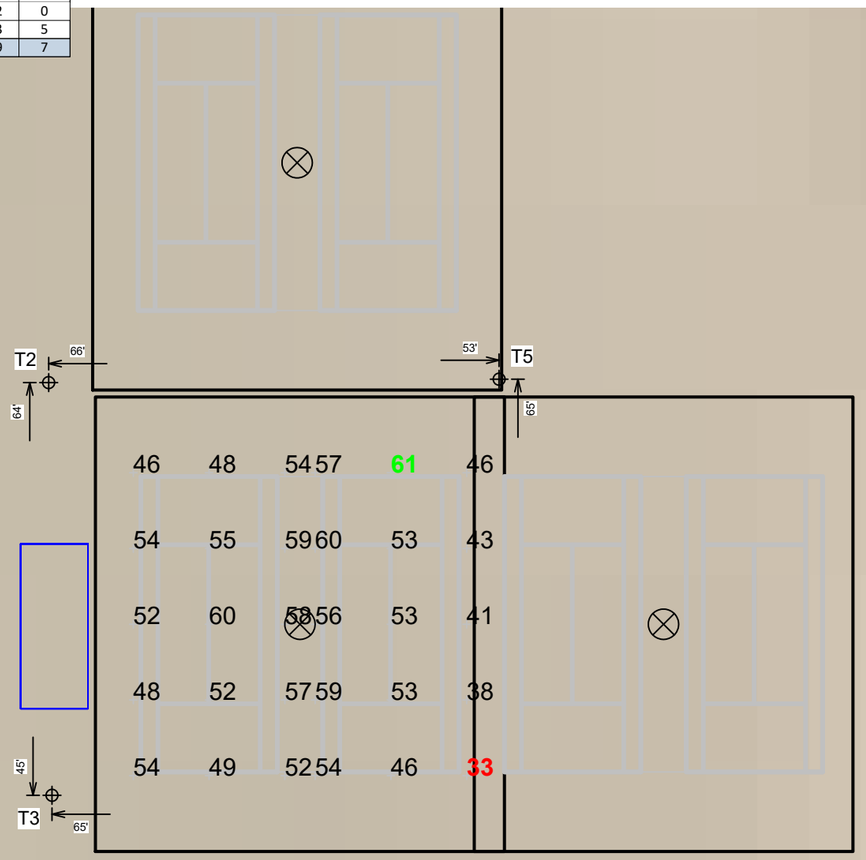
Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T2	50'	-	50'	TLC-LED-550	2	2	0
				50'	TLC-LED-900	3	1	2
1	T3	50'	-	50'	TLC-LED-1200	1	1	0
				50'	TLC-LED-550	2	2	0
1	T5	50'	-	50'	TLC-LED-900	6/2*	3	5
3	Totals					16	9	7

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



La Vernia High School Tennis Phase 2

La Vernia,TX

Grid Summary

Name:	**Tennis 3-4**
Size:	2 Court - 12' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**51.71**
Maximum:	61
Minimum:	33
Avg/Min:	1.58
Max/Min:	**1.86**
UG (adjacent pts):	0.00
CU:	0.75
No. of Points:	30
FIXTURE INFORMATION	
Applied Circuits:	A
No. of Fixtures:	**9**
Total Load:	6.85 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 40

0' 40' 80'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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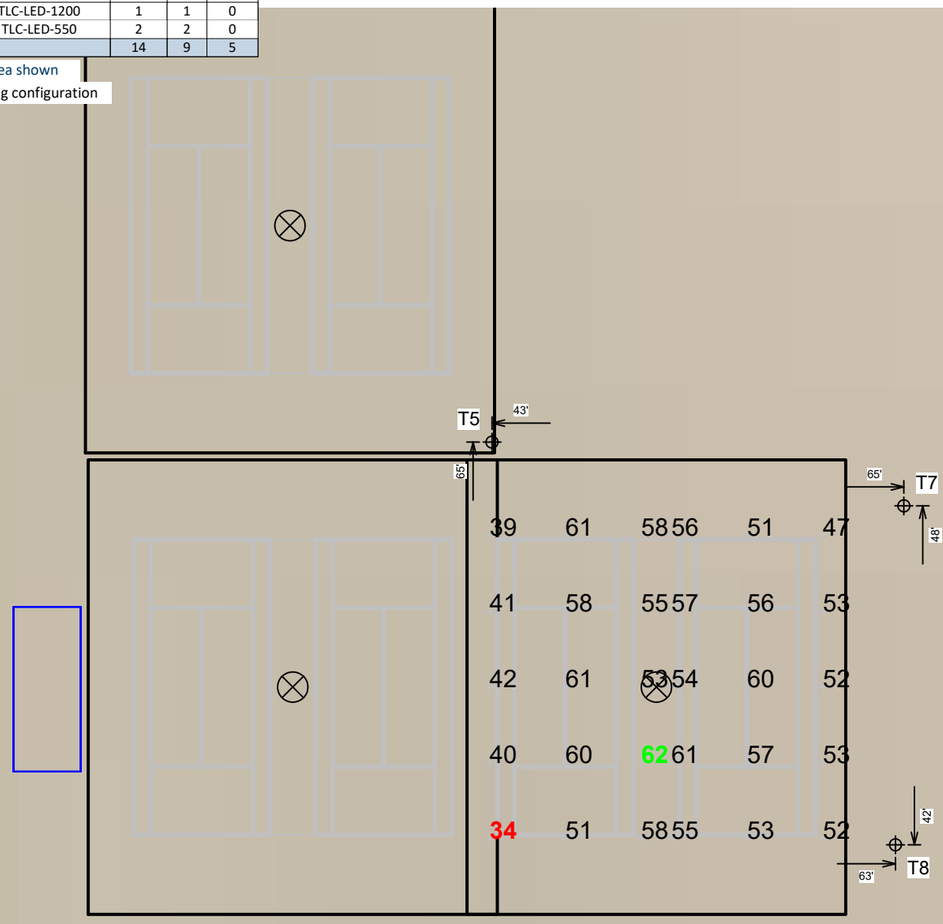
Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T5	50'	-	50'	TLC-LED-900	6/2*	3	5
1	T7	50'	-	50'	TLC-LED-550	2	2	0
				50'	TLC-LED-900	1	1	0
1	T8	50'	-	50'	TLC-LED-1200	1	1	0
				50'	TLC-LED-550	2	2	0
3	Totals					14	9	5

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



La Vernia High School Tennis Phase 2

La Vernia,TX

Grid Summary

Name:	**Tennis 5-6**
Size:	2 Court - 12' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	Entire Grid
Scan Average:	**52.92**
Maximum:	62
Minimum:	34
Avg/Min:	1.56
Max/Min:	**1.83**
UG (adjacent pts):	0.00
CU:	0.78
No. of Points:	30
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	**9**
Total Load:	6.85 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 40

0' 40' 80'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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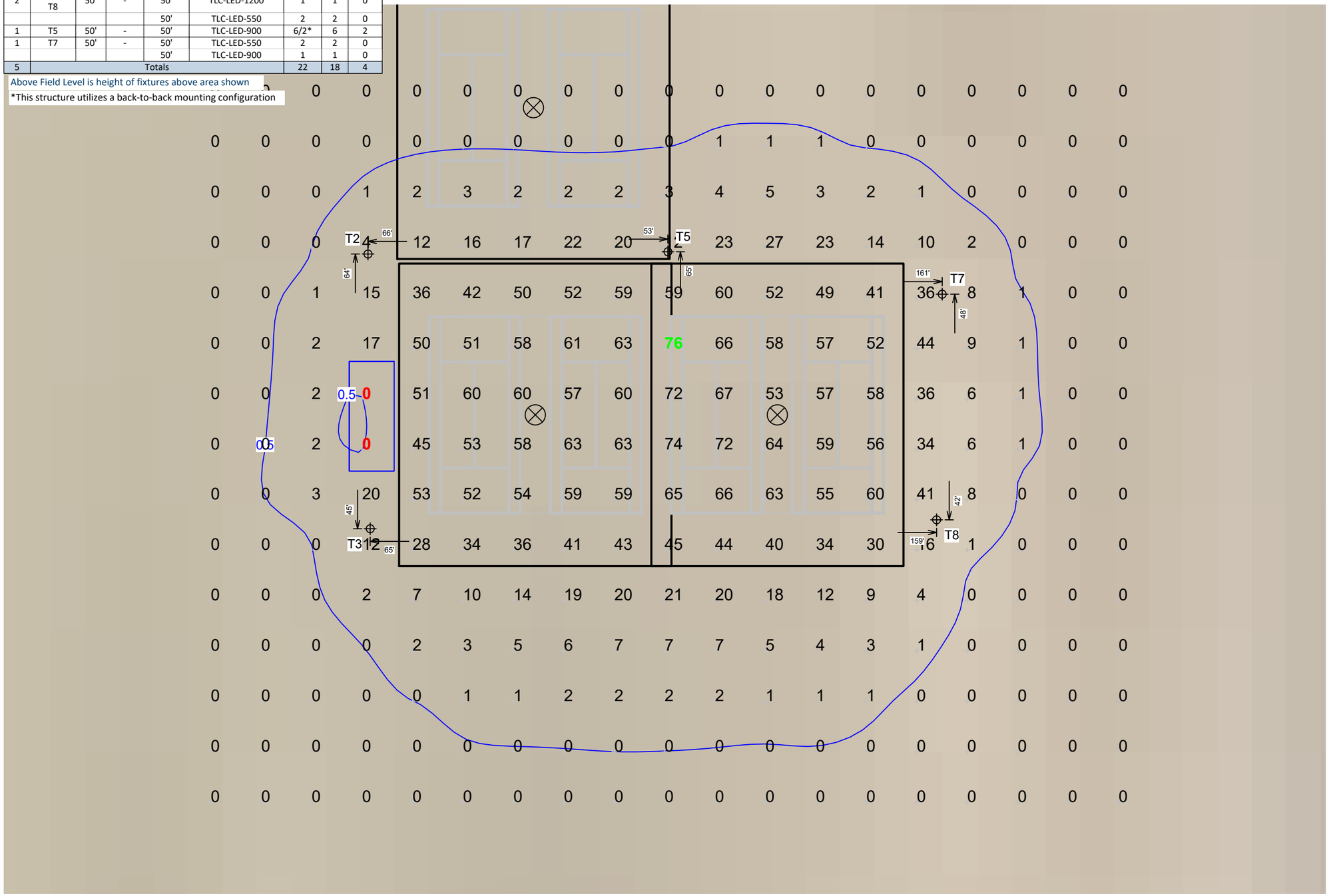
Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	FIXTURE TYPE	QTY/POLE	THIS GRID	OTHER GRIDS
1	T2	50'	-	50'	TLC-LED-550	2	2	0
				50'	TLC-LED-900	3	1	2
2	T3 T8	50'	-	50'	TLC-LED-1200	1	1	0
				50'	TLC-LED-550	2	2	0
1	T5	50'	-	50'	TLC-LED-900	6/2*	6	2
1	T7	50'	-	50'	TLC-LED-550	2	2	0
				50'	TLC-LED-900	1	1	0
5	Totals					22	18	4

Above Field Level is height of fixtures above area shown

*This structure utilizes a back-to-back mounting configuration



La Vernia High School Tennis Phase 2

La Vernia,TX

Grid Summary

Name:	**Blanket Grid (.5fc)**
Size:	2 Court - 12' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**14.20**
Maximum:	76
Minimum:	0
Avg/Min:	-
Max/Min:	**-**
UG (adjacent pts):	211.08
CU:	0.99
No. of Points:	285
FIXTURE INFORMATION	
Applied Circuits:	A,B
No. of Fixtures:	**18**
Total Load:	13.70 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1 : 40

0' 40' 80'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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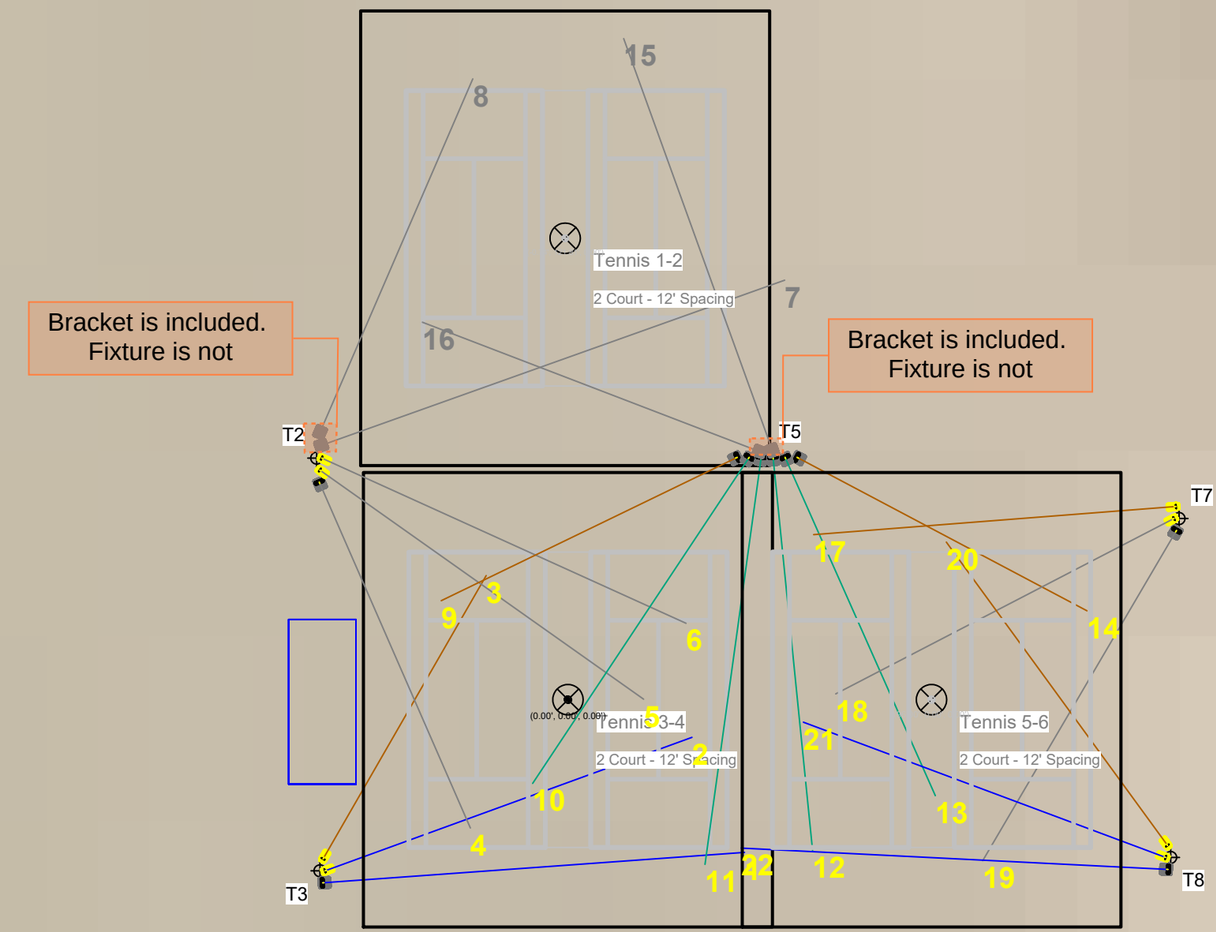

La Vernia High School Tennis Phase 2

La Vernia,TX

Equipment Layout

INCLUDES:
· Tennis 1-2
· Tennis 3-4
· Tennis 5-6

Electrical System Requirements: Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown

Structure				Fixtures		
QTY	STRUCTURE ID	SIZE	GLOBAL ELEVATION	ABOVE GLOBAL LEVEL	FIXTURE TYPE	QTY/POLE
1	T2	50'	-	50' 50'	TLC-LED-550 TLC-LED-900	2 3
2	T3 T8	50'	-	50' 50'	TLC-LED-1200 TLC-LED-550	1 2
1	T5	50'	-	50'	TLC-LED-900	6/2*
1	T7	50'	-	50' 50'	TLC-LED-550 TLC-LED-900	2 1
5	Totals					22

*This structure utilizes a back-to-back mounting configuration

Above Global Level is height of fixtures above design (0,0,0)

Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4

SCALE IN FEET 1 : 40

0' 40' 80'

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊠

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Alexander Ragland

From: Ben Voelliger <ben.voelliger@musco.com>
Sent: Wednesday, September 23, 2026 10:27 AM
To: Catherine Blackler; Christian Cortes; Alexander Ragland
Cc: Jose Medellin; Jacobo Morales; Michael Rogers; Walter Nu'u; hcone; robyn.popa; rafael.bedolla; Jazmine Byrom
Subject: Re: LVISD: PR 92 - Tennis Court Lighting
Attachments: 218769B.pdf

Some people who received this message don't often get email from ben.voelliger@musco.com. Learn why this is important

Hey Catherine

My apologies I thought I responded to your email last week.

Yes the security fixtures would be able to be scheduled from sunset to sunrise while the rest of the LED fixtures are off. The court lights would be able to be turned on while the security fixtures are still on. Since the security fixtures and court fixture can be put on two different zones the school would have the ability to control each set individually through our control link app and schedule them as they prefer. The fixtures would also be monitored by our control link dept so if there is an outage or issue, musco will get a notification and that's when our warranty would kick in.

I have attached our photometrics that we did for the remaining 5 poles. If look at the last page you will notice that poles T5 and T2 have gray lines pointed at the north two courts. That means that if the school would like to add fixtures to those poles to light the two north courts down the road they would have that capability. When the school purchased this system back in the day those poles were already up sized and built to hold future fixtures for those courts so the LED configuration would allow for the same.

Hopefully that clears things up. If you have any questions at all please let me know.

Thanks,

Ben Voelliger
Sales Representative
Musco Lighting
(512) 658-6884

From: Catherine Blackler <cblackler@agcm.com>
Sent: Tuesday, September 22, 2026 11:16 PM
To: Ben Voelliger <ben.voelliger@musco.com>; Christian Cortes <CCortes@bartlettcocke.com>; Alexander Ragland <aragland@bartlettcocke.com>
Cc: Jose Medellin <jose.medellin@pflugerarchitects.com>; Jacobo Morales <jmorales@agcm.com>; Michael Rogers <mrogers@agcm.com>; Walter Nu'u <wnuu@agcm.com>; hcone <hcone@lvisd.org>; robyn.popa <robyn.popa@pflugerarchitects.com>; rafael.bedolla <rafael.bedolla@pflugerarchitects.com>; Jazmine Byrom <jazmine.byrom@pflugerarchitects.com>
Subject: RE: LVISD: PR 92 - Tennis Court Lighting

WARNING: The sender of this email could not be validated and may not match the person in the "From" field.

Ben,

Can you please provide feedback on the questions from 09/18/26?

- Can one of the new LED fixtures on each applicable pole be programmed to function as the security light, turning on at sunset and off at sunrise?
- Can the remaining tennis court lighting have an override/control that allows the courts to be used at night while the designated security light(s) remain on?

Also,

- Based on the attached foot-candle analysis, can you confirm that the revised cost you provided to IES includes provisions for light fixtures on the backside of the back court?

Catherine Blackler
Senior Project Manager
m: (210) 649-9802 | cblackler@agcm.com

From: Catherine Blackler <cblackler@agcm.com>
Sent: Friday, September 18, 2026 2:58 PM
To: Ben Voelliger <ben.voelliger@musco.com>; Christian Cortes <CCortes@bartlettcocke.com>; Alexander Ragland <aragland@bartlettcocke.com>
Cc: Jose Medellin <jose.medellin@pflugerarchitects.com>; Jacobo Morales <jmorales@agcm.com>; Michael Rogers <mrogers@agcm.com>; Walter Nu'u <wnuu@agcm.com>; hcone <hcone@lvisd.org>; robyn.popa <robyn.popa@pflugerarchitects.com>; rafael.bedolla <rafael.bedolla@pflugerarchitects.com>; Jazmine Byrom <jazmine.byrom@pflugerarchitects.com>
Subject: RE: LVISD: PR 92 - Tennis Court Lighting

PR 92 – Tennis Court Lighting Options

This is a recap of everything we've discussed so far regarding PR 92, just so we have all the options and decisions documented in one place. This will be discussed with the Subcommittee Monday.

We have worked through several options with Musco, Pfluger, Dr. Cone and the Board.

Option 1: Leave the pole in place / shorten the roadway

- This option was considered by the design team.
- Dr. Cone and the Board did not support this option.
- **This option has been eliminated.**

Option 2: Relocate the existing light fixture to the building

- The idea was to either remove the existing fixture/head from the pole being deleted and mount it to the building or replace with new LED fixtures.
- Dr. Cone and the Board do not feel this is a viable option.
- Their concern is the additional load on the building.
- Musco advised against this option because the existing lighting is not compatible with the new LED fixtures and could cause a flickering effect.
- Additionally, Musco advised that the distance and height of the building were factors in determining that adding new lighting from the building to illuminate the court was not a viable option.
- **This option has been eliminated.**

Option 3: Relocate the pole into the tennis court area

- This was considered as another way to maintain the lighting.
- We have since determined the tennis court is a post-tensioned slab.
- Relocating the pole would create a risk of hitting/compromising a post-tension cable.
- We do not want to risk damaging the tennis court.
- **This option has been eliminated.**

Option 4: Modify the existing lighting configuration

- We looked at whether the lighting could be reconfigured by repurposing deleted fixtures to the other existing poles.
- Musco confirmed the existing light poles are not rated to support the additional load required for additional fixtures.
- Eliminating one pole and its fixtures would result in only five poles remaining, which would not provide the necessary candle levels for the tennis courts.
- **This option has been eliminated.**

Option 5: Delete the Light Pole in the Roadway: Replace Existing Fixtures on Five Poles with New LED Fixtures

- Remove the existing fixtures from five of the light poles within the tennis court area and replace them with new LED fixtures.
- Musco has confirmed the new LED fixtures can provide the 50 foot-candles required for the tennis courts.
- The lighting shall continue to have an override/control that allows the courts to be used at night.
- **This option is currently being explored as the remaining option.**
- Musco has provided revised pricing, and Bartlett Cocke is working with IES Commercial to sharpen the pricing further.
- Musco confirmed the security lights currently on the poles will need to be removed, due to pole rating loads (see further comments below)

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Security Lights

Musco has advised that the existing security light fixture on each pole must also be removed due to the current pole load rating.

- There are currently four security light fixtures.
- Each security light is currently connected to Relay #4 in the lighting cabinet:
    - Turns **on at sunset**
    - Turns **off at sunrise**

Questions for Musco:

- Can one of the new LED fixtures on each applicable pole be programmed to function as the security light, turning on at sunset and off at sunrise?

- Can the remaining tennis-court lighting have an override/control that allows the courts to be used at night, while the designated security light(s) remain on?

Please provide this information as soon as possible, especially if the security-lighting requirements will impact the design or result in additional pricing due to dedicated runs.

Let me know if you any further questions.

Catherine Blackler
Senior Project Manager
Central Region
m: (210) 649-9802|cblackler@agcm.com

From: Ben Voelliger
Sent: Wednesday, September 16, 2026 4:14 PM
To: Catherine Blackler ; Christian Cortes ; Alexander Ragland
Cc: Jose Medellin ; Jacobo Morales ; Michael Rogers ; Walter Nu'u
Subject: Re: LVISD: PR 92 - Tennis Court Lighting

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Hey Catherine

I have sent some updated pricing over Litco electric as was requested by Bartlett. One thing I did want to mention that I forgot to bring up is I noticed when we were on site the tennis courts have security fixtures on the poles. When our engineer did the photometric for retrofitting the 5 remaining poles he did say we would not be able to replace those security fixtures. In order to get the required 50 footcandles of light on the courts the poles would be maxed out with the new LED fixtures on top of the poles. We also cannot do a combination of HID and LED so they would most likely need to be removed. Let me know if you have any questions about that or if we need to discuss anything.

Thanks,

Ben Voelliger
Sales Representative
Musco Lighting
(512) 658-6884

From: Catherine Blackler <cblackler@agcm.com>
Sent: Tuesday, 15 September 2026 12:21:06
To: Christian Cortes <CCortes@bartlettcocke.com>; Alexander Ragland <aragland@bartlettcocke.com>
Cc: Jose Medellin <jose.medellin@pflugerarchitects.com>; Jacobo Morales <jmorales@agcm.com>; Michael Rogers <mrogers@agcm.com>; Walter Nu'u <wnuu@agcm.com>; Ben Voelliger <ben.voelliger@musco.com>
Subject: RE: LVISD: PR 92 - Tennis Court Lighting

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Thanx for the follow up Christian. We appreciate your efforts.

Catherine Blackler
Senior Project Manager
m: (210) 649-9802|cblackler@agcm.com

From: Christian Cortes <CCortes@bartlettcocke.com>
Sent: Tuesday, September 15, 2026 10:46 AM
To: Catherine Blackler <cblackler@agcm.com>; Alexander Ragland <aragland@bartlettcocke.com>
Cc: Jose Medellin <jose.medellin@pflugerarchitects.com>; Jacobo Morales <jmorales@agcm.com>; Michael Rogers <mrogers@agcm.com>; Walter Nu'u <wnuu@agcm.com>; Ben Voelliger <ben.voelliger@musco.com>
Subject: Re: LVISD: PR 92 - Tennis Court Lighting

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Good morning Catherine,

Thanks for the update. IES is the installing contractor and is responsible for procuring the material required of their scope. We do not see a practical path for Bartlett to purchase and transfer fixtures. That said, we have asked IES to sharpen their pencil as we routinely do when reviewing potential changes. I will reiterate that request today.

Thanks,

Christian Cortes • Project Executive
O: (210) 655-1031 **D:** (210) 630-6806 **C:** (830) 421-1193

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From: Catherine Blackler <cblackler@agcm.com>
Sent: Tuesday, September 15, 2026 9:58 AM
To: Alexander Ragland <ARagland@bartlettcocke.com>
Cc: Jose Medellin <jose.medellin@pflugerarchitects.com>; Jacobo Morales <jmorales@agcm.com>; Michael Rogers <mrogers@agcm.com>; Walter Nu'u <wnuu@agcm.com>; Ben Voelliger <ben.voelliger@musco.com>; Christian Cortes <CCortes@bartlettcocke.com>
Subject: LVISD: PR 92 - Tennis Court Lighting

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Alex,

Following up on our earlier conversation regarding PR 92 lighting price at the tennis court, I wanted to recap:

We have evaluated three options to manage costs while addressing the requirements:

1. New building placement: **Ruled out.**
- The distance and height of the building make it impractical to achieve adequate candlelight on the courts.
- The Board is concerned about adding weight to the roofing system.

2. Relocating/adding fixtures to existing poles: **Not viable.**
- Musco's analysis shows the existing two-fixture set up cannot support a four-fixture setup.

3. Moving poles into the court: **Not feasible.**
- The court slab appears to have post-tensioned cables on approximately 3-foot centers, creating unacceptable risk.

Given these constraints, we have asked Musco to evaluate cost relief options. Ben and his team are exploring this now.

I'm copying Ben on this email to facilitate coordination with you.

Is there is an opportunity for Bartlett to purchase fixtures directly from Musco and transfer them to IES, reducing middleman costs?

The district feels this change should have been identified during the design phase. Our goal is to demonstrate that we have exhausted every option to support their interests.

I have a meeting with Dr. Cone Thursday and will update him on the latest developments.

Catherine Blackler
Senior Project Manager

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