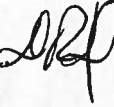


AI S D

TO : Trustees

FROM : Don Daniel, Supt. 

SUBJECT : **Middle School Football Field Lighting**

I am recommending we use *Techline Sports Lighting* to replace the lights at Aledo Middle School. They did the lighting at Bearcat Stadium and sports lighting is their field of expertise. *Design Build* gave two references; both said they had not experienced any problem with the lights, but the lights are not on a competitive football field. One was a baseball field at Country Day; the other a practice field at Richland High School.

The Techline bid includes a 25 year warranty compared to a 5 year for Team Design Build. BTC has also expressed concern over the warranty and requested they be removed from supervising the project if we choose the shorter warranty, due to the liability associated with stadium lighting accidents.

Don (4)



15303 Storm Drive • Austin, Texas 78734
Ph: (800) 500-3161 • Fax: (512) 977-8882

11/01/10

Keith Ruffner
Buford Thompson-General Contracting
Arlington Texas
Re: Aledo Middle School Football Field Lighting

Keith,

Per our conversation today, we have scheduled a job visit by the crane company on Tuesday at 1:00 pm. We will have the poles demoed and stored on site by the end of the week.

Here are the quotes that you have requested thus far:

-Demo of existing poles and stored on site at the school's direction.
\$7500.00

-Replace existing foundations with new foundations reusing poles and fixtures. \$69,000.00 (please note there is no warranty on this option other than one year on the foundation)

-New system with new foundations, poles, cross arms and fixtures.
\$139,000.00 (This warranty includes a 25 year structural warranty on the pole, crossarm, and ballast enclosure) This option matches existing fixture count but uses a more energy efficient fixture. This will upgrade the lighting by approximately 20%-30%.

-New system with new foundations, poles, cross arms and fixtures.
\$135,000.00 (This warranty includes a 25 year structural warranty on the pole, crossarm, and ballast enclosure) This option will utilize the more efficient fixture but will match existing light levels. The efficiency will be realized in energy savings.

Thanks,
Ross Redden
Techline Sports Lighting
469-644-4161

TEAM DESIGN BUILD USA

National Accounts & Construction Services- Techlight Outdoor Illumination

Keith Rufner
Buford Thompson Company
3005 Medlin Drive
Arlington, TX 76015

November 30, 2010

RE: Aledo Middle School Football Stadium

SITE LIGHTING PROPOSAL

NEW SYSTEM.....\$98,985.00

4- 90' Galvanized Steel Sports Poles with tubular cross arms
56- SL "Sports Lighters"-281- 1000 watt metal halide

EXISTING POLE INSTALLATION.....\$22,475.00

Includes: 4 new concrete bases, demolish and remove existing bases, install existing poles, clean all fixtures lenses and reflectors. Check existing and secure controls.

Lamp & Ballast Replacement on Existing Fixtures

54- GE PULSE-ARC lamp and ballast kit.....\$15,800.00
1- SL281 Sports Lighter to replace one damaged included in price

NEW SPORTS LIGHTER

54- SL-281-1000 watt metal halide fixtures.....\$20,660.00

Qualifications:

1. All equipment installed in accordance with all code requirements.
2. Lamp & ballast replacement price is based on a Pulse Arc lamp system. This technology can increase light levels and lamp life as much as 20% from the current system. The existing fixtures must be verified thru the original manufacture as to enhanced or decreased performance with this new lamp technology. Standard 1000 watt lamps may be required.
3. Demolish and remove 3 existing bases.
4. "NEW SYSTEM" price includes 4 concrete bases, internal cross arm wired with ballast boxes mounted at the base of pole. One year lamp and ballast replacement warranty.
5. Permits, insurance and clean up as required. Bonding not included in this price.
6. Tax has not been added to this price.
7. Engineering included with all options.
8. 5 year replacement warranty on poles and concrete bases. Existing wire and controls to remain is operational assumed in good condition and cannot be part of this warranty.

Please do not hesitate to call if you have any questions or need additional information.

Sincerely,

A.C. "Chuck" Tordiglione
Senior Director
Team Design Build USA
Techlight Outdoor Illumination
Beacon-ECHO-ISIS Manufacturing
ChuckT@DesignBuildUSA.net
Direct- 817-443-0330
Cell 817-996-9170

Techlight National Accounts & Team Design Build USA 178 Sams Lane Aledo, Texas 76008 817-443-0330/ Fax 817-443-0363
SITE- LANDSCAPE & DECORATIVE LIGHTING PHOTOMETRICS ENGINEERING INSTALLATION

New bid - No illuminance summary provided -



ILLUMINANCE SUMMARY

TARGET PLANE: X-Y (HORIZ.) AT Z = 3.00'
 ILLUMINANCE: HORIZONTAL FC

GRID NAME	NO.	AVG	MIN	A/M	M/M	UG	CV	GRID SIZE X	GRID SIZE Y
FB	72	47.9	39.1	1.22	1.46	1.31	0.10	30'	30'

TARGET PLANE: X-Y (HORIZ.) AT Z = 3.00'
 ILLUMINANCE: HORIZONTAL FC

TRACK	80	16.3	30.5	2.7	6.08	11.39	1.62	0.60	30'	20'
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* ILLUMINANCE LEVELS SHOWN

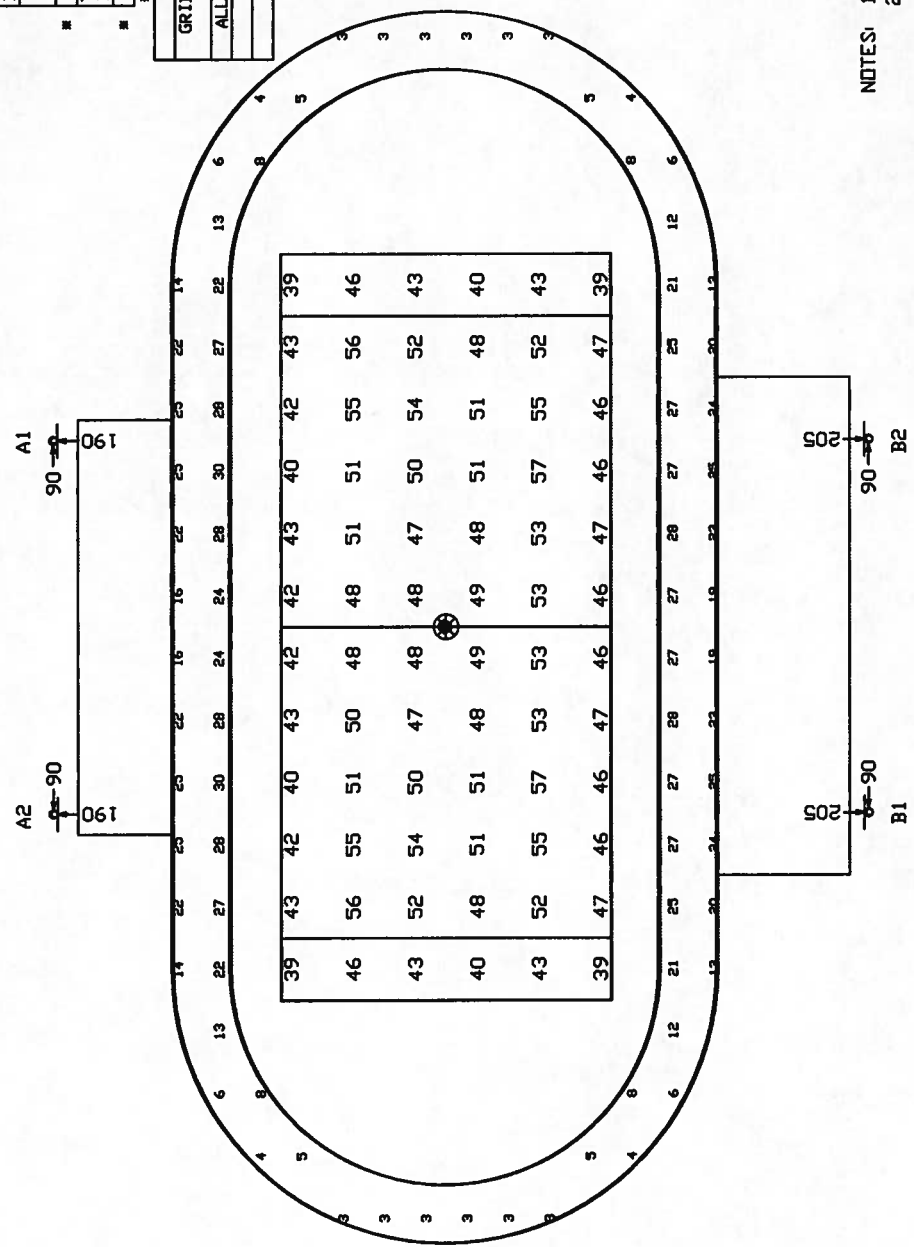
LUMINAIRE SUMMARY

GRID	TYPE	CATALOG NUMBER	TEST NUMBER	INITIAL LUMENS	LLF	Q'TY	AVG. TILT
ALL	A	TSL1500N	TSL2502	180000	0.81	38	1.00
	B	TSL1500M	TSL2503	180000	0.81	18	1.00
Total Luminares/Combined				Avg. Tilt		56	1.00

MOUNTING LOCATION SUMMARY

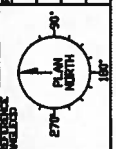
MTG. LOC. LABEL (X, Y)	MTG. HT. (FEET)	Q'TY PER LOC.	WATT LOAD	TYPE
A1 (90, 190)	91.0	14	22.54	A
A2 (-90, 190)	91.0	14	22.54	B
B1 (-90, -205)	91.0	14	22.54	A
B2 (90, -205)	91.0	14	22.54	B
TOTAL		56	90.16	

* MOUNTING HEIGHTS MEASURED FROM PLAYING SURFACE
 MTG. LOCATIONS (X, Y) ARE RELATIVE TO 0,0 AT



NOTES: 1. DIMENSIONS ARE IN FEET & ORIGINATE FROM EACH FIELD'S
 2. MOUNTING HEIGHT (>) ABOVE PLAYING SURFACE

THIS LIGHTING DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AND FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (PILE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIED RESPONSIBLE FOR THE PROJECT.
 BALLASTS AND LUMINAIRE SHALL BE INSTALLED UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.
 2. CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.
 REVISIONS: REVISED FROM DRAWING NUMBER: TITLE



Graphic Scale

ALEJO MIDDLE SCHOOL
 FOOTBALL STADIUM
 47 FC LIGHT LEVEL
 (14) 1500 WATT FIXTURES PER POLE

DATE: 11-28-10
 DRAWING NO: 1052456



ILLUMINANCE SUMMARY

TARGET PLANE: X-Y (HORIZ.) AT Z = 3.00'

ILLUMINANCE: HORIZONTAL FC

GRID NAME	NO.	AVG	MAX	A/M	M/M	UG	CV	GRID SIZE X	GRID SIZE Y
FB	72	22.4	27.0	18.1	1.23	1.49	1.35	0.09	30' 30'

TARGET PLANE: X-Y (HORIZ.) AT Z = 3.00'

ILLUMINANCE: HORIZONTAL FC

TRACK	80	11.6	25.3	1.6	7.19	15.66	1.93	0.69	30'	20'
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ILLUMINANCE LEVELS SHOWN

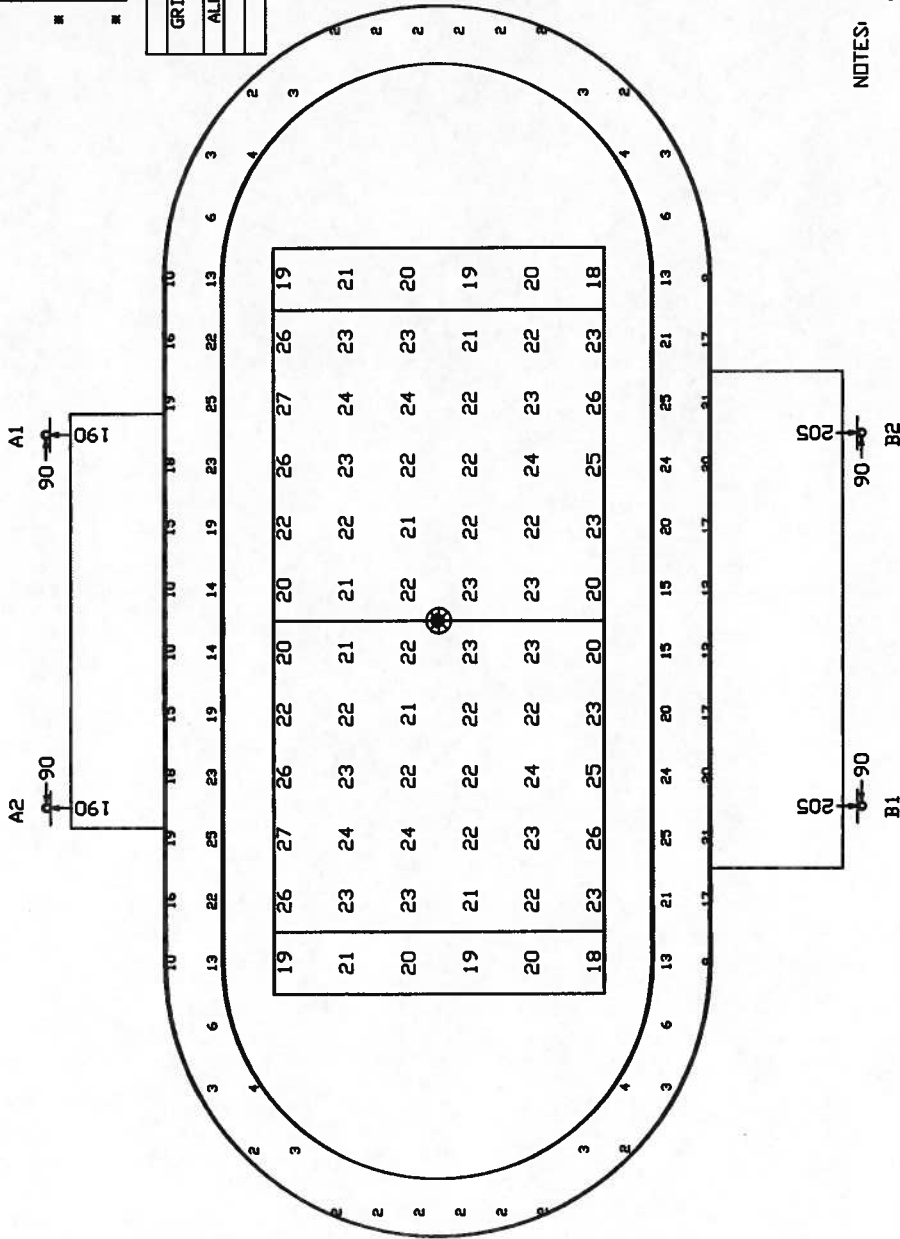
LUMINAIRE SUMMARY

GRID	TYPE	CATALOG NUMBER	TEST NUMBER	INITIAL LUMENS	LLF	G'TY	AVG. TILT	
ALL	A	TSL10003	TSL10149	108000	0.81	38	0.88	
	B	TSL10004	TSL10155	108000	0.81	18	0.88	
Total Luminaire/Combined Avg. Tilt							56	0.88

MOUNTING LOCATION SUMMARY

MTG. LOC. LABEL (X, Y)	MTG. HT. (FEET)	G'TY PER LOC.	KW LOAD		
			A	B	C
A1 (90, 190)	91.0	14	15.12	9	5
A2 (-90, 190)	91.0	14	15.12	9	5
B1 (-90, -205)	91.0	14	15.12	10	4
B2 (90, -205)	91.0	14	15.12	10	4
TOTAL			60.48	38	18

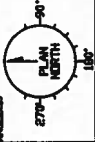
NOTE: MOUNTING HEIGHTS MEASURED FROM PLAYING SURFACE
MTG. LOCATION(S) (X, Y) ARE RELATIVE TO 0, 0 AT



- NOTES: 1. DIMENSIONS ARE IN FEET & ORIGINATE FROM EACH FIELD'S
2. MOUNTING HEIGHT (>) ABOVE PLAYING SURFACE

1. THIS LIGHTING DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AND FIELD REVISIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, MOUNTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIED RESPONSIBLE FOR THE PROJECT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS UNDER APPLICABLE REGULATIONS AND MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.
3. CONFORMANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.

REVISION FROM DRAWING NUMBER: TITLE



ALEDDO MIDDLE SCHOOL
FOOTBALL STADIUM
22 FC LIGHT LEVEL
(14) 1000 WATT FIXTURES PER POLE

SCALE: 1/8" = 1'-0"
DATE: 10-12-10
BY: HJ
CHECKED: HJ

1052456A



TEAM DESIGN BUILD USA

National Accounts & Construction Services- Techlight Outdoor Illumination

Keith Ruffner
Buford Thompson Company
3005 Medlin Drive
Arlington, TX 76015

RE: Aledo Middle School Football Stadium

SITE LIGHTING PROPOSAL

EXISTING POLE INSTALLATION.....\$24,475.00

Includes: 4 new concrete bases, demolish and remove existing bases, install existing poles, clean all fixtures lenses and reflectors. Check existing and secure controls. Engineering of total assemblage.

Lamp & Ballast Replacement on Existing Fixtures

54- GE PULSE-ARC lamp and ballast kit.....\$15,800.00 + 24,475 = 40,275
1- SL281 Sports Lighter to replace one damaged included in price

NEW SPORTS LIGHTER

54- SL-281-1000 watt metal halide fixtures.....\$20,660.00 + 24,475 = 45,135

Qualifications:

1. All equipment installed in accordance with all code requirements.
2. Lamp & ballast replacement price is based on a Pulse Arc lamp system. This technology can increase light levels and lamp life as much as 20% from the current system. The existing fixtures must be verified thru the original manufacture as to enhanced or decreased performance with this new lamp technology. Standard 1000 watt lamps may be required.
3. Demolish and remove 3 existing bases.
4. Permits, insurance and clean up as required. Bonding not included in this price.
5. Tax has not been added to this price.

Please do not hesitate to call if you have any questions or need additional information.

Sincerely,

A.C. "Chuck" Tordiglione
Senior Director
Team Design Build USA
Techlight Outdoor Illumination
Beacon-ECHO-ISIS Manufacturing
ChuckT@DesignBuildUSA.net
Direct- 817-443-0330
Cell 817-996-9170

Donald Daniel

From: Keith Ruffner [KRuffner@buford-thompson.com]
Sent: Monday, November 15, 2010 12:51 PM
To: Donald Daniel
Cc: Mike Trammell
Subject: RE: Aledo Middle School Designs

This is how he responded to the warranty information. I think this guy could probably do a good job since this is a practice field but before he gives a final price I think he needs some additional direction on the foot candles and maybe even the type of lights he is proposing. I don't think I would use him on a competition field but it might be a good value in this situation.

" Keith,

Your figures are correct.

Regarding the warranty. I believe we will warranty the bases at least 5 years and I need to look into that question. Believe it or not I have never had that one put in front of me the 12 years I have been in the lighting business.

We will re use the existing underground conduit & wire, poles and cages. These will be difficult to warranty, however we will engineer the complete assemblage that should give the Aledo ISD great comfort.

The new fixtures and ballasts come with a 2 year warranty. The lamps are normally 60 days and after that we rarely see lamp burn out for at least a year or more.

One option we did not consider is a re lamp with existing ballast to remain. I'm not sure how old the ballast are, but they can last 4-5-6 plus years. We can offer this with a 6 month replacement warranty.

I live in Aledo and will insure the school district a correct and proper installation.

Please let me know if you have further questions or need additional information.

Thank you,
A.C. "Chuck" Tordiglione
Senior Director
Team Design Build USA DIV
Techlight Illumination -Beacon Products
Direct 817-443-0330 "

Keith Ruffner
Senior Project Manager
Buford-Thompson Company
817-467-4981

-----Original Message-----

From: Donald Daniel [mailto:ddaniel@aledo.k12.tx.us]
Sent: Monday, November 15, 2010 12:57 PM
To: Keith Ruffner
Subject: RE: Aledo Middle School Designs

Keith did we ever get warranty information from Design Build?---Don

-----Original Message-----

From: Keith Ruffner [mailto:KRuffner@buford-thompson.com]
Sent: Friday, November 12, 2010 4:11 PM
To: Donald Daniel
Cc: Mike Trammell
Subject: FW: Aledo Middle School Designs

Don, attached is additional information on the lighting.

Keith Ruffner
Senior Project Manager
Buford-Thompson Company
817-467-4981

-----Original Message-----

From: Redden, Ross [mailto:Ross@sportlighting.com]
Sent: Friday, November 12, 2010 11:48 AM
To: Keith Ruffner
Subject: FW: Aledo Middle School Designs

Keith,

Here are the designs I promised you yesterday. As you can see the 1000 watt fixture, like the ones proposed by design build usa, will provide an approximate foot candle level of 22.4 foot candles. This is 30% less than UIL recommendations. Techline's design with the same number of fixtures would provide 47.9 foot candles which far exceeds the recommendations put forth by UIL. Let me know if you need anything else.

Ross

-----Original Message-----

From: Wiese, Wesley
Sent: Fri 11/12/2010 10:40 AM
To: Redden, Ross
Cc: Hawthorne, Rodney
Subject: Aledo Middle School Designs

Here are the designs...

- (14) NEW 1000 Watt fixtures per pole gives you 22.4 FC
- (14) NEW 1500 Watt fixtures per pole gives you 47.9 FC

Wesley Wiese
Techline Sports Lighting
www.sportlighting.com <<http://www.sportlighting.com/>>
P: 800-500-3161
F: 512-977-8882

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