



Purchasing Co-Op / Contract #:	BuyBoard Contract #: 592-19 (Expires 9/30/22)
Project Name:	Tarpey Park (Field #4)
Project City-State:	Texas City, TX
Quote Date:	10/25/2021
Type of Field(s):	SOFTBALL FIELD #4 - 200' Radius
Photometrics Per Design #:	50/30FC Avg. Light Level / 21-2829-R1
Type of Fixtures:	USING NEW CLIR 630W LED FIXTURES
Warranty:	Includes a 10-Year Maintenance Free Warranty

Quantity	Description
3	60 Foot Mounting Height Steel Poles
2	5 Fixture Crossarms
2	8 Fixture Crossarms
26	ELITE CLIR 630w LED w/ Visor
26	Prewiring for Poles and Crossarms

<p><b>Project Notes:</b></p> <ul style="list-style-type: none"> <li>&gt; Price includes all materials listed above (excluding adders &amp; deducts).</li> <li>&gt; Price includes delivery to jobsite.</li> <li>&gt; Price firm for 30 days.</li> <li>&gt; Allow 2-3 weeks for delivery.</li> <li>&gt;&gt; (Delivery process will begin once P.O./Contract has been issued and the Voltage Verification &amp; Design Approval Form (if applicable) - have been properly filled out and returned.)</li> <li>&gt; Price does NOT include SALES or USE taxes.</li> <li>&gt;&gt; (A Tax Exemption Certificate must be filed with Techline if applicable. If not, the appropriate tax will be added to all invoices.)</li> <li>&gt; All work to be performed that requires a license, including but not limited to electrical &amp; plumbing will be performed by individuals - currently licensed in the proper jurisdiction.</li> <li>&gt; All proposals are based in bids by licensed individuals anticipated to perform the work.</li> </ul>
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<p><b>Warranty Notes:</b></p> <ul style="list-style-type: none"> <li>&gt; Seller warrants that Poles and Cross Arm Assemblies ONLY will be free from defects in material and workmanship for a period - of 7 years from date of shipment.</li> <li>&gt; Seller will replace any defective material for the entire 7 year period.</li> <li>&gt; Techline will make every effort to maintain any component of our sports lighting system for the entirety of the warranty period.</li> <li>&gt; Advances in technology and obsolescence of some components, including but not limited to; regulatory changes, cellular upgrades, - and other items beyond our control, could possibly render this impossible for some components in the future.</li> <li>&gt; Techline will always make every effort to support our system as long as manufactured components are available.</li> </ul>
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<p><b>TURNKEY Installation Notes:</b></p> <ul style="list-style-type: none"> <li>&gt; Allow 2-3 weeks for Turnkey Installation.</li> <li>&gt; Pole locations must also be accessible with standard lift and not obstructed by fencing, buildings, etc. (special lift &amp; matting charges not included)</li> <li>&gt; Standard turnkey install foundations assume 2000psi soil conditions.</li> <li>&gt;&gt; (Any other conditions that may be present upon installation (i.e. rock, water, etc.) that cause additional foundation design or modification - (i.e. rebar, casing, etc.) may require additional charges.)</li> </ul> <p><b>INCLUDES:</b></p> <ul style="list-style-type: none"> <li>✓ Installing controls (if supplied) based on existing Electrical service being available at current location beyond centerfield of this field.</li> <li>✓ Remove all existing overhead electrical circuits and existing wooden poles. Install (3) new Galv. Steel Poles per design.</li> <li>✓ Install individual conduit and wiring for each pole sized accordingly. No more than 3% voltage drop shall be allowed.</li> <li>✓ Auguring pole foundation holes, setting all pole stubs in holes, center/plumb/brace and backfill with 3000psi concrete</li> <li>✓ Build out pole tops including mounting cross arm assemblies, mount &amp; wire all fixtures in place, crane rental to set all pole tops in - place, fixture aiming, and final clean up.</li> <li>✓ All permits, fees and inspections associated with the project.</li> <li>✓ All electrical installation to meet National Electric Code requirements.</li> </ul> <p><b>EXCLUDES:</b></p> <ul style="list-style-type: none"> <li>✗ Prevailing Wage Rates, Union Labor Rates</li> <li>✗ Payment &amp; Performance Bond</li> </ul> <p>Total Including Turnkey Install = \$132,000.00</p>
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Pole	x-loc	y-loc	height	M	W	EW	Total	kw
A1	-29.3	44.8	60ft	1	4		5	3.2
A2	36	-24.1	60ft	1	4		5	3.2
C1	85.7	192.4	60ft	4	3	1	8	5.2
C2	192.4	85.7	60ft	4	3	1	8	5.2
Total				10	14	2	26	16.8

Softball 195'/210'/200'  
99 points (25 infield, 74 outfield) at z=3, sp 20ft by 20ft  
HORIZONTAL FOOTCANDLES

	Outfield	Infield
Average	30	50
Maximum	42	61
Minimum	18	42
Avg:Min	1.65	1.18
Max:Min	2.33	1.45
Coef Var	0.20	0.10
UnifGrad	1.60	1.42

EW  
CLIR 630 DM EW  
Light Loss Factor = 0.900  
Watts per luminaire = 646  
Number luminaires used = 2  
kw these luminaires = 1.3

W  
CLIR 630 DM W  
Light Loss Factor = 0.900  
Watts per luminaire = 646  
Number luminaires used = 14  
kw these luminaires = 9.0

M  
CLIR 630 DM M  
Light Loss Factor = 0.900  
Watts per luminaire = 646  
Number luminaires used = 10  
kw these luminaires = 6.5



TARPEY PARK  
GALVESTON  
COUNTY, TX  
SOFTBALL

1. THIS LIGHTING DESIGN IS BASED ON INFORMATION PROVIDED BY OTHERS. SITE DETAILS PROVIDED HEREON ARE REPRESENTED ONLY AS A GENERALIZATION AND FIELD VERIFICATION MAY SUBSTANTIALLY AFFECT PROPOSED PERFORMANCE. PRIOR TO INSTALLATION, CONTRACTOR SHALL INVESTIGATE LOCAL CONDITIONS, OBSTRUCTIONS, HEIGHTS, ORIENTATION, AND OTHER FACTORS WHICH SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR DESIGNER. RESPONSIBILITY FOR THE PROJECT: 1. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING CONDITIONS UNDER LABORATORY CONDITIONS. OPERATING HOURS AND WEATHER MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND TERMINALS SHALL ADHERE FIELD MANUALS. 2. CONFORMANCE TO FACILITY USER AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER. THE DESIGNER'S REPRESENTATIVE. 3. CALCULATIONS DO NOT TAKE INTO CONSIDERATION ANY OBSTRUCTIONS OR LIGHTING POLLUTION CAUSED BY NEIGHBORING LIGHT SOURCES.

DRAWN BY: JCIE  
Date: 5/17/2021  
SCALE: NTS  
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Dwg #: 21-2829-R1



Purchasing Co-Op / Contract #:	BuyBoard Contract #: 592-19 (Expires 9/30/22)
Project Name:	Godard Park Pee Wee Fields
Project City-State:	Texas City, TX
Quote Date:	10/25/2021
Type of Field(s):	<b>(2) - LITTLE LEAGUE BASEBALL FIELDS</b>
Photometrics Per Design #:	50/30FC Avg. Light Level Both Fields/ Design #21-2674
Warranty:	<b>Includes Our 10 Year Maintenance Free Warranty</b>

Quantity	Description
8	60 Foot Mounting Height Steel Poles
2	5 Fixture Crossarms
4	6 Fixture Crossarms
2	7 Fixture Crossarms
48	ELITE CLR 630w LED w/ Visor
48	ELITE CLR 20" Extended Visor
48	Prewiring for Poles and Crossarms

<p><b>Project Notes:</b></p> <ul style="list-style-type: none"> <li>➤ Price includes all materials listed above (excluding adders &amp; deducts).</li> <li>➤ Price includes delivery to jobsite.</li> <li>➤ Price firm for 30 days.</li> <li>➤ Allow 2-3 weeks for delivery.</li> <li>➤ <u>(Delivery process will begin once P.O./Contract has been issued and the Voltage Verification &amp; Design Approval Form (if applicable) - have been properly filled out and returned.)</u></li> <li>➤ Price does <b>NOT</b> include SALES or USE taxes.</li> <li>➤ <u>(A Tax Exemption Certificate must be filed with Techline if applicable. If not, the appropriate tax will be added to all invoices.)</u></li> <li>➤ All work to be performed that requires a license, including but not limited to electrical &amp; plumbing will be performed by individuals - currently licensed in the proper jurisdiction.</li> <li>➤ All proposals are based in bids by licensed individuals anticipated to perform the work.</li> </ul>
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<p><b>Warranty Notes:</b></p> <ul style="list-style-type: none"> <li>➤ Seller warrants that Equipment furnished or manufactured by Seller will be free from defects in material and workmanship for a period - of <b>10 years</b> from date of shipment.</li> <li>➤ Seller will replace any defective material for the entire <b>10 year</b> period.</li> <li>➤ Techline will make every effort to maintain any component of our sports lighting system for the entirety of the warranty period.</li> <li>➤ Advances in technology and obsolescence of some components, including but not limited to; regulatory changes, cellular upgrades, - and other items beyond our control, could possibly render this impossible for some components in the future.</li> <li>➤ Techline will always make every effort to support our system as long as manufactured components are available.</li> </ul>
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<p><b>TURNKEY Installation Notes:</b></p> <ul style="list-style-type: none"> <li>➤ Allow 3-4 weeks for Turnkey installation.</li> <li>➤ Pole locations must also be accessible with standard lift and not obstructed by fencing, buildings, etc. <i>(special lift &amp; matting charges not included)</i></li> <li>➤ Standard turnkey install foundations assume 2000psi soil conditions.</li> <li>➤ <u>(Any other conditions that may be present upon installation (i.e. rock, water, etc.) that cause additional foundation design or modification - (i.e. rebar, casing, etc.) may require additional charges.)</u></li> </ul> <p><input checked="" type="checkbox"/> <b>INCLUDES:</b></p> <ul style="list-style-type: none"> <li>✓ installing controls (if supplied) based on existing electrical service being located at existing location.</li> <li>✓ Utilize existing underground conduit and wiring for each pole sized accordingly. No more than 3% voltage drop shall be allowed.</li> <li>✓ All wiring to be copper type THHN.</li> <li>✓ Auguring pole foundation holes, setting all pole stubs in holes, center/plumb/brace and backfill with 3000psi concrete</li> <li>✓ Build out pole tops including mounting cross arm assemblies, mount &amp; wire all fixtures in place, crane rental to set all pole tops in - place, fixture aiming, and final clean up.</li> <li>✓ All permits, fees and inspections associated with the project.</li> <li>✓ includes re-feeding the restroom Bldg. from the other electrical service nearest to this building, as discussed on-site.</li> </ul> <p><input checked="" type="checkbox"/> <b>EXCLUDES:</b></p> <ul style="list-style-type: none"> <li>✗ Prevailing Wage Rates, Union Labor Rates</li> <li>✗ Payment &amp; Performance Bond</li> </ul> <p style="text-align: center;">Total including Turnkey Install = \$239,000.00</p>
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Pole	x-loc	y-loc	height	M	W	EW	Total	kw
A1	-275.2	-17.4	70ft	5	1		6	3.9
A2	-192.4	-86.9	70ft	5	1		6	3.9
A3	-45.2	45.6	70ft	4	2	1	7	4.5
A4	45.6	-45.2	70ft	4	2	1	7	4.5
C1	-192.4	117.7	70ft	1	3	1	5	3.2
C2	-73.7	18.1	70ft	1	3	1	5	3.2
C3	49.9	174.1	70ft	2	3	1	6	3.9
C4	174.1	49.9	70ft	2	3	1	6	3.9
<b>Total</b>				<b>24</b>	<b>18</b>	<b>6</b>	<b>48</b>	<b>31.0</b>

Softball 160' Radius  
69 points (25 Infield, 44 outfield) at z=3, sp 20ft by 20ft  
HORIZONTAL FOOTCANDLES

	Outfield	Infield
Average	30	50
Maximum	37	59
Minimum	22	40
Avg/Min	1.38	1.26
Max/Min	1.68	1.48
Coef Var	0.12	0.11
UnifGrad	1.40	1.23

Softball 170/185/170  
75 points (25 Infield, 50 outfield) at z=3, sp 20ft by 20ft  
HORIZONTAL FOOTCANDLES

	Outfield	Infield
Average	32	50
Maximum	39	57
Minimum	27	43
Avg/Min	1.20	1.17
Max/Min	1.44	1.33
Coef Var	0.10	0.10
UnifGrad	1.33	1.28

EW  
CLR 630 EV EW  
Light Loss Factor = 0.900  
Watts per luminaire = 646  
Number luminaires used = 6  
kw these luminaires = 3.9

W  
CLR 630 EV W  
Light Loss Factor = 0.900  
Watts per luminaire = 646  
Number luminaires used = 18  
kw these luminaires = 11.6

M  
CLR 630 EV M  
Light Loss Factor = 0.900  
Watts per luminaire = 646  
Number luminaires used = 24  
kw these luminaires = 15.5



**GODARD PARK**  
**TEXAS CITY, TX**  
**SOFTBALL**

1. THIS LIGHTING DESIGN IS BASED ON INFORMATION OBTAINED BY VISUAL SITE SURVEY PROVIDED REASON AND REPRESENTED ONLY AS A VISUALIZATION AND FIELD VARIATIONS MAY SIGNIFICANTLY AFFECT FIELD PERFORMANCE. CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, HEIGHTS, HEIGHTS, ETC.) SHOULD BE CORROBORATED WITH THE CONTRACTOR AND/OR DESIGNER RESPONSIBLE FOR THE PROJECT.  
2. LUMINAIRE AREA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING HOURS AND MODEL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.  
3. COMPROMISE TO FACILITY FLOW AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.  
4. CALCULATIONS DO NOT TAKE INTO CONSIDERATION ANY OBSTRUCTIONS OR LIGHTING SOLUTION CAUSED BY NEIGHBORING LIGHT SOURCES.

DRAWN BY: KBER  
Date: 4/13/2021  
SCALE: NTS  
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Dwg #: 21-2674