

TECHLINETM
SPORTS LIGHTING

POWERED BY

GEOSPORT



Stephenville City Park

Fields 1 & 2 LED Retrofit Proposal

Jacob Fulbright

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(903) 407-5899

Project Name:	<u>Stephenville City Park</u>
Project City-State:	Stephenville, TX
Quote Date:	7/15/2022
Type of Field(s):	<u>300' Baseball Field</u>
Photometrics Per Design #:	50/30 FC Light Level / 22-5534
Warranty:	10 Year Maintenance <u>FREE</u>

Quantity	Description
6	70 Foot Mounting Height Steel Poles
2	8 Fixture Crossarms
4	9 Fixture Crossarms
52	CLIR 630w LED w/ Visor
52	Prewiring for Poles and Crossarms
1	Standard Wireless Control Hub

<p>Project Notes:</p> <ul style="list-style-type: none"> > Price includes all materials listed above (excluding adders & deducts). > Price includes delivery to jobsite. > Price firm for 45 days. > Allow 6-8 weeks for delivery. > Price does NOT include SALES or USE taxes. > All work to be performed that requires a license, including but not limited to electrical & plumbing will be performed by individuals currently licensed in the proper jurisdiction.
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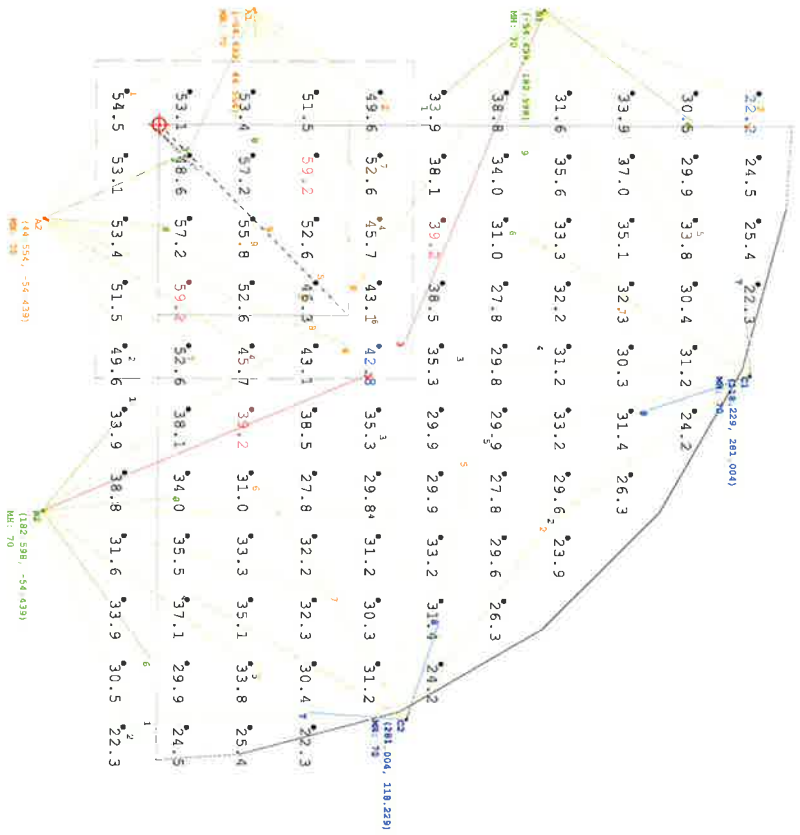
<p>TURNKEY Installation Notes:</p> <ul style="list-style-type: none"> > Allow 3-4 weeks for Turnkey Installation. > Pole locations must also be accessible with standard lift and not obstructed by fencing, buildings, etc. (<i>special lift & matting charges not included</i>) > Standard turnkey install foundations assume 2000psi soil conditions. >> (<i>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.</i>) <p>INCLUDES:</p> <ul style="list-style-type: none"> ✓ Demolition & Disposal of existing sports lighting system / fixtures. ✓ Installing controls (if supplied) based on 480V 3Ø service being available within 150' of field. ✓ Install individual conduit and wiring for each pole sized accordingly. No more than 3% voltage drop shall be allowed. ✓ All wiring to be copper type THHN. ✓ Auguring pole foundation holes, setting all pole stubs in holes, center/plumb/brace and backfill with 3000psi concrete ✓ Build out pole tops including mounting cross arm assemblies, mount & wire all fixtures in place, crane rental to set all pole tops in - place, fixture aiming, commissioning of controls, control training, and final clean up. ✓ All permits, fees and inspections associated with the project. ✓ All electrical installation to meet National Electric Code requirements. <p>Total Including Turnkey Install = \$219,000.00</p>

Pole Summary		
Scene: DEFAULT		
Projects	Z Lum.	MH
A1	9	70
A2	9	70
B1	9	70
B2	9	70
C1	8	70
C2	8	70
C3	8	70
TOTAL	81	560

Pole Warnings Summary		
Scene: DEFAULT		
Label	Total Warts	
A1	8814	
A2	8814	
B1	8814	
B2	8814	
C1	5168	
C2	5168	
C3	5168	
TOTAL	33592	

Luminaires Schedule			
Scene: DEFAULT			
Label	Symbol	Qty	Arrangement
CULR_690_OV_N	2	36	SINGLE
CULR_690_OV_M	10	10	SINGLE
CULR_690_OV_W	10	10	SINGLE
CULR_690_OV_SW	4	4	SINGLE

Calculation Summary			
Scene: DEFAULT			
Area Size	Units	Avg	Max
BASEBALL INFIELD	300' RADIUS	51.36	42.8
BASEBALL OUTFIELD		31.36	39.2
			22.2
			1.77
			73
			30
			30
			0.14
			1.38



STEPHENVILLE CITY PARK
BASEBALL- 300' RADIUS
22-5534.AGI



DRAWN BY: KIBER
 Date: 7/15/2022
 SCALE: NTS
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 22-5534.AGI

Project Name:	<u>Stephenville City Park</u>
Project City-State:	Stephenville, TX
Quote Date:	7/28/2022
Type of Field(s):	<u>Fields 1&2 Retrofit</u>
Photometrics Per Design #:	50/30 FC Light Level / 22-5612
Warranty:	10 Year Warranty

Quantity	Description
64	CLIR 630w LED w/ Visor
64	Retrofit Diving Board Mounting Adapter Bracket
64	Retrofit Installation Hardware Kit (bolts, washers, wire nuts, etc...)
1	Standard Wireless Control Hub

Project Notes:

- Price includes all materials listed above (excluding adders & deducts).
- Price includes delivery to jobsite.
- Price firm for 45 days.
- Allow 6-8 weeks for delivery.
- Price does **NOT** include SALES or USE taxes.
- All work to be performed that requires a license, including but not limited to electrical & plumbing will be performed by individuals currently licensed in the proper jurisdiction.

Warranty Notes:

- Seller warrants that Equipment furnished or manufactured by Seller will be free from defects in material and workmanship for a period - of **10 years** from date of shipment.
- Seller will replace any defective material for the entire **10 year** period.
- Techline will make every effort to maintain any component of our sports lighting system for the entirety of the warranty period.

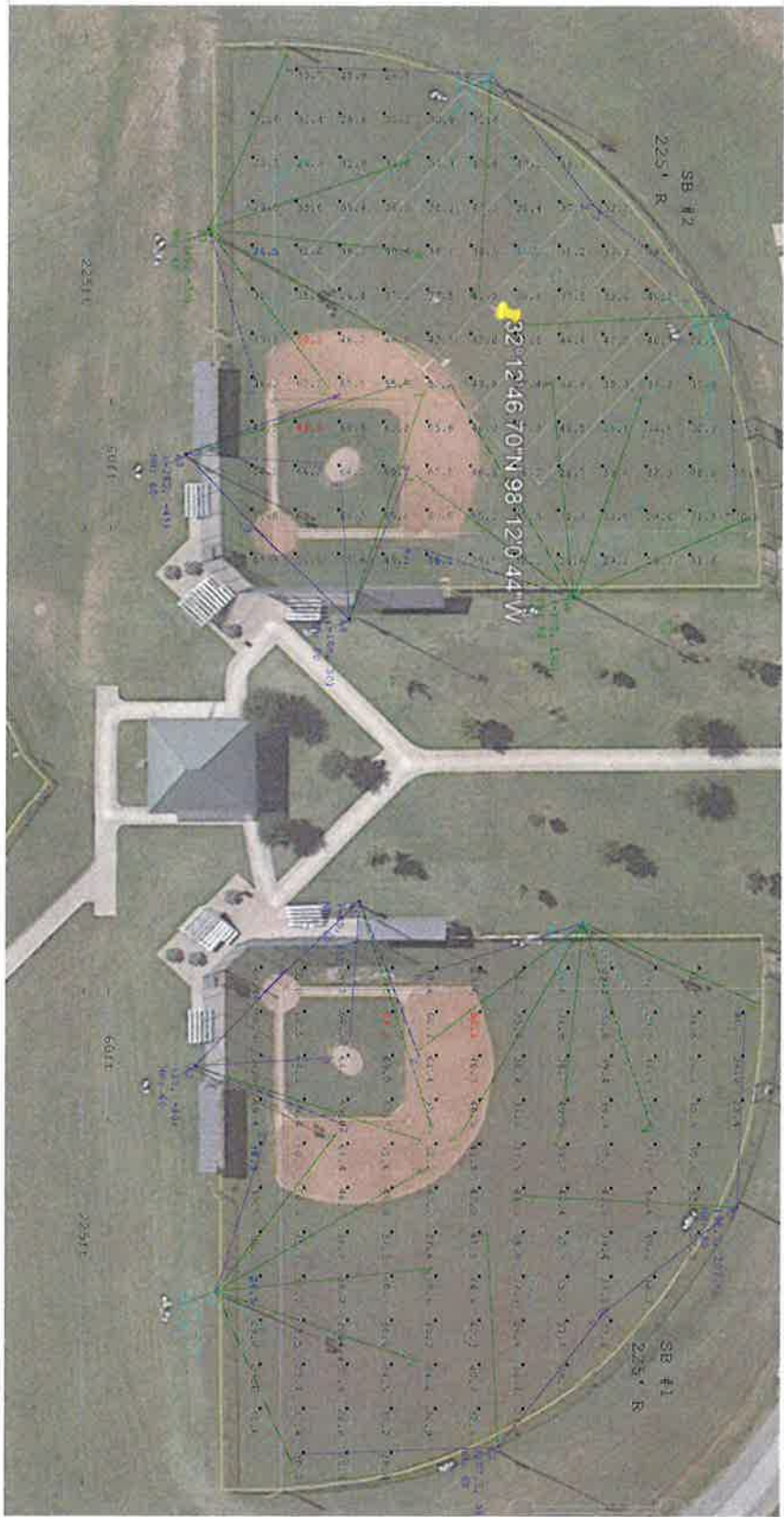
RETROFIT Installation Notes:

- Allow **2-3 weeks** for Retrofit installation.
- Price quoted assumes the integrity of all existing structure (poles, crossarms, wiring) are of sound workmanship and quality.
- Pole locations must also be accessible and not obstructed by fencing, buildings, etc.
- Minimum mounting heights of 60' or higher are recommended to minimize glare and optimize player safety according to the Illumination - Engineering Society of North America. (Basketball & Tennis courts are not applicable)

INCLUDES:

- ✓ Demolition & Disposal of existing sports lighting system / fixtures.
- ✓ Reusing / Replace main distribution panel, breakers, contactors and switching.
- ✓ Reusing / Install individual conduit and wiring for each pole sized accordingly. No more than 3% voltage drop shall be allowed.
- ✓ All wiring to be copper type THHN.
- ✓ Mounting all fixtures in place, fixture aiming, commissioning of controls, control training, and final clean up.
- ✓ Includes all permits, fees and inspections associated with the project.
- ✓ All electrical installation to meet National Electric Code requirements.

Total Including Retrofit Install = \$139,000.00



Pole Summary
Scene: DEFAULT

Poles	# Lums	WH
A1	4	60'
A2	4	60'
A3	4	60'
A4	4	60'
B1	7	60'
B2	7	60'
B3	7	60'
B4	7	60'
C1	5	60'
C2	5	60'
C3	5	60'
C4	5	60'
TOTAL	5	60'

Pole Wattage Summary
Scene: DEFAULT

Label	Total Watts
A1	3584
A2	3584
A3	2594
A4	2594
B1	4522
B2	4522
B3	4522
B4	4522
C1	3290
C2	3290
C3	3290
C4	3290
TOTAL	41344

Luminaire Schedule
Scene: DEFAULT

Label	Symbol	Qty	Label	LF	Lum. Watts	Arrangement
SB #1 INFIELD	FC	12	CL8 430 DM 3W	0390	666	SINGLE
SB #1 OUTFIELD	FC	24	CL8 430 DM 3W	0390	666	SINGLE
SB #2 INFIELD	FC	12	CL8 430 DM 3W	0390	666	SINGLE
SB #2 OUTFIELD	FC	24	CL8 430 DM 3W	0390	666	SINGLE

Calculation Summary
Scene: DEFAULT

Label	Units	Avg.	Max	Min	Max/Min	# Fts	P/Spd*	P/SpdCh	CV	UG
SB #1 INFIELD	FC	57.55	69.5	38.3	1.81	35	30	30	0.15	1.57
SB #1 OUTFIELD	FC	35.80	50.1	24.5	2.04	35	30	30	0.16	1.44
SB #2 INFIELD	FC	57.55	69.5	38.3	1.82	35	30	30	0.15	1.57
SB #2 OUTFIELD	FC	35.99	50.2	24.5	2.05	30	30	30	0.16	1.42

TX-Stephenville City Park
TX-Stephenville
SOFTBALL - PER BOM
22-5612.AGI



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 DATE: 7/28/2022
 SCALE: NTS
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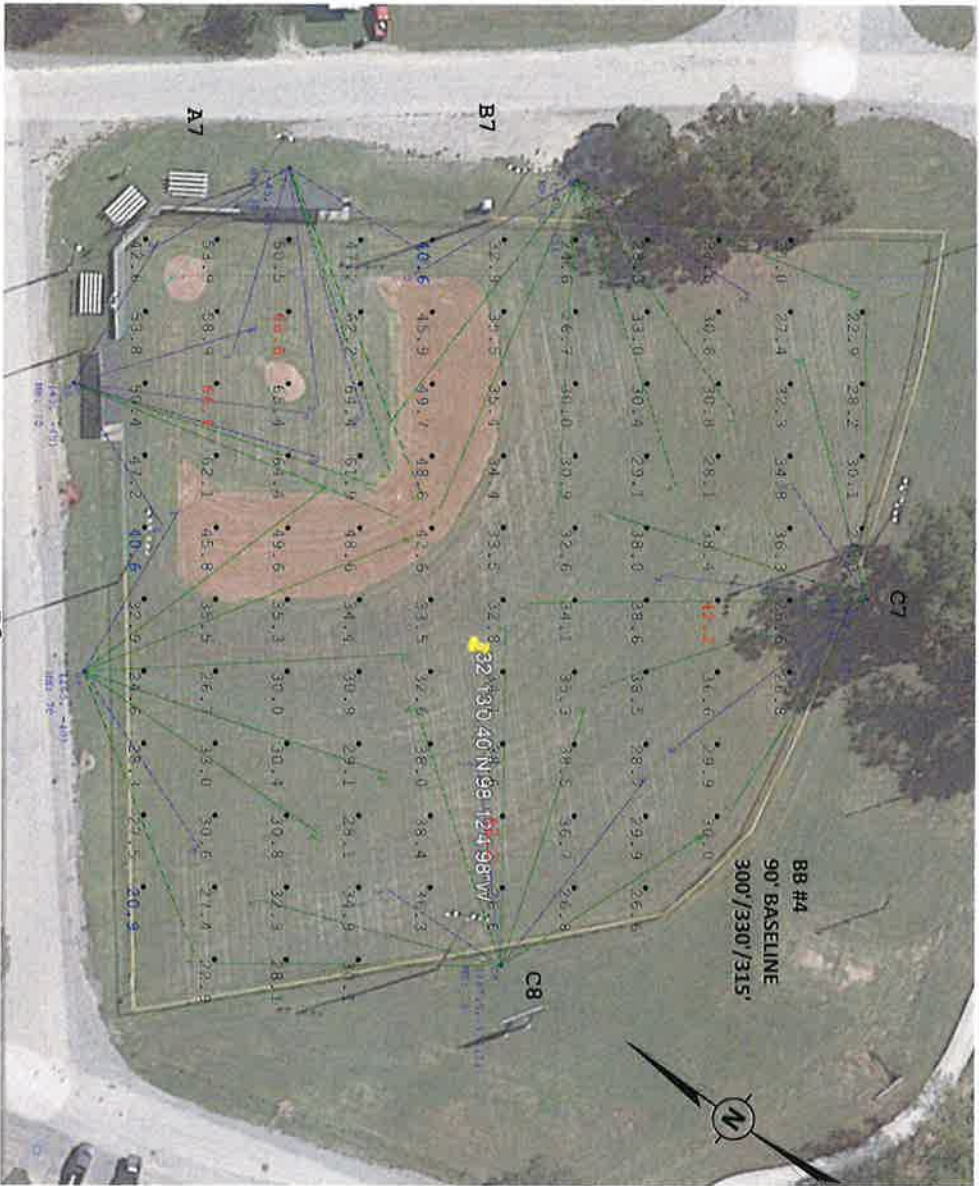
Project Name:	<u>Stephenville City Park</u>
Project City-State:	Stephenville, TX
Quote Date:	7/11/2022
Type of Field(s):	<u>Baseball/Softball</u>
Photometrics Per Design #:	50/30 FC Light Level / 22-5464, 22-5463
Warranty:	10 Year Maintenance <u>FREE</u>

Quantity	Description
6	60 Foot Mounting Height Steel Poles
16	70 Foot Mounting Height Steel Poles
6	6 Fixture Crossarms
6	7 Fixture Crossarms
4	8 Fixture Crossarms
6	9 Fixture Crossarms
164	CLIR 630w LED w/ Visor
164	Prewiring for Poles and Crossarms
2	Standard Wireless Control Hub

<p>Project Notes:</p> <ul style="list-style-type: none"> ➤ Price includes all materials listed above (excluding adders & deducts). ➤ Price includes delivery to jobsite. ➤ Price firm for 45 days. ➤ Allow 6-8 weeks for delivery. ➤ Price does NOT include SALES or USE taxes. ➤ All work to be performed that requires a license, including but not limited to electrical & plumbing will be performed by individuals currently licensed in the proper jurisdiction.

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<p>TURNKEY Installation Notes:</p> <ul style="list-style-type: none"> ➤ Allow 3-4 weeks for Turnkey Installation. ➤ Pole locations must also be accessible with standard lift and not obstructed by fencing, buildings, etc. (special lift & matting charges not included) Standard ➤ turnkey install foundations assume 2000psi soil conditions. ➤ (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.) <p>INCLUDES:</p> <ul style="list-style-type: none"> ✓ Demolition & Disposal of existing sports lighting system / fixtures. ✓ Installing controls (if supplied) based on 480V 3Ø service being available within 150' of field. ✓ Install individual conduit and wiring for each pole sized accordingly. No more than 3% voltage drop shall be allowed. ✓ All wiring to be copper type THHN. ✓ Auguring pole foundation holes, setting all pole stubs in holes, center/plumb/brace and backfill with 3000psi concrete ✓ Build out pole tops including mounting cross arm assemblies, mount & wire all fixtures in place, crane rental to set all pole tops in -place, ✓ fixture aiming, commissioning of controls, control training, and final clean up. ✓ All permits, fees and inspections associated with the project. ✓ All electrical installation to meet National Electric Code requirements. <p>Total Including Turnkey Install = \$659,000.00</p>



Scale: 1 inch = 50 Ft.

Calculation Summary

Label	Scene: DEFAULT	Units	Avg	Max	Min	Max/Min	# Pts	Presctr	Presctb	CV	UG
#4 INFIELD		Ft.	53.20	65.6	40.5	1.64	25	30	30	0.15	1.95
#4 OUTFIELD		Ft.	31.43	42.2	20.9	2.02	78	30	30	0.15	1.99

Luminaire Schedule

Symbol	Scene: DEFAULT	Qty	Label	Arrangement
□		20	CIN 530 DM W	SINGLE
□		28	CIN 530 DM M	SINGLE
□		6	CIN 530 DM 5W	SINGLE

Pole Summary

Point	Scene: DEFAULT	# Lumns	Min
A7		9	60'
A8		9	60'
B7		9	60'
B8		9	60'
C7		9	60'
C8		9	60'
TOTAL		9	60'

Pole Writeup Summary

Label	Scene: DEFAULT	Total Write
A7		3814
A8		3814
B7		3814
B8		3814
C7		3814
C8		3814
TOTAL		34896

STEPHENVILLE CITY PARK
STEPHENVILLE, TX
BASEBALL - 50/30 FC
22-5463.AGI



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 Date: 7/5/2022
 SCALE: NTS
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Calculations Summary
Scene: DEFAULT

Label	Units	Avg.	Max	Min	Max/Min	# Pts	Project	Project	CV	UG
A1 INFIELD	Fc	53.23	61.5	40.0	1.54	25	20	20	0.10	1.18
A1 OUTFIELD	Fc	33.32	43.1	19.8	2.18	150	20	20	0.16	1.79
A2 INFIELD	Fc	52.46	60.7	38.7	1.57	25	20	20	0.11	1.42
A2 OUTFIELD	Fc	30.94	41.8	20.1	2.08	156	20	20	0.15	1.49
A3 INFIELD	Fc	54.97	70.8	39.3	1.80	25	20	20	0.15	1.42
A3 OUTFIELD	Fc	33.14	44.1	20.2	2.15	48	20	20	0.19	1.73

Luminaires Schedule
Scene: DEFAULT

Symbol	Qty	Label
	34	CLM_630_DIM_W
	68	CLM_630_DIM_M
	8	CLM_630_DIM_SW

Pole Wattage Summary
Scene: DEFAULT

Label	Total Watts
A1	3876
A2	3876
A3	3876
A4	3876
A5	3876
A6	3876
B1	4522
B2	4522
B3	4522
B4	4522
C1	5188
C2	5188
C3	5188
C4	5188
C5	4332
C6	4332
TOTAL	71680

Pole Summary
Scene: DEFAULT

Poles	# Lum.	MH
A1	6	70'
A2	6	70'
A3	6	70'
A4	6	70'
A5	6	70'
A6	6	70'
B1	7	70'
B2	7	70'
B3	7	70'
B4	7	70'
C1	8	70'
C2	8	70'
C3	8	70'
C4	8	70'
C5	7	70'
C6	7	70'

L.F.	Lum. Watts	Arrangement
0.950	646	SINGLE
0.950	646	SINGLE
0.950	646	SINGLE

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DATE: 5/2022
SCALE: NTS
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STEPHENVILLE CITY PARK
STEPHENVILLE, TX
SOFTBALL - 50/30 FC
22-5464.AGI



Project Name:	<u>Stephenville City Park</u>
Project City-State:	Stephenville, TX
Quote Date:	7/15/2022
Type of Field(s):	300' Baseball Field
Photometrics Per Design #:	50/30 FC Light Level / 22-5534
Warranty:	10 Year Maintenance <u>FREE</u>

Quantity	Description
6	70 Foot Mounting Height Steel Poles
2	8 Fixture Crossarms
4	9 Fixture Crossarms
52	CLIR 630w LED w/ Visor
52	Prewiring for Poles and Crossarms
1	Standard Wireless Control Hub

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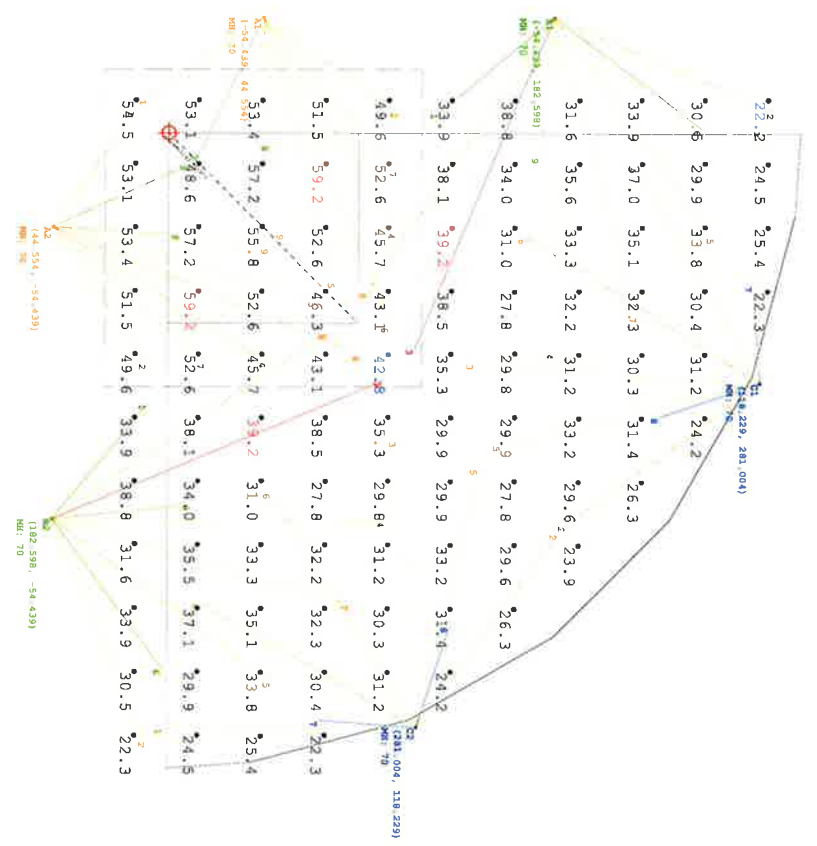
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Pole Summary		
Scene: DEFAULT	# Lums	WH
A1	9	70
A2	9	70
B1	9	70
B2	9	70
C1	8	70
C2	8	70
TOTAL	81	560

Pole Wattage Summary		
Scene: DEFAULT	Total Watts	
A1	5814	
A2	5814	
B1	5814	
B2	5814	
C1	5168	
C2	5168	
TOTAL	33592	

Luminaire Schedule			
Scene: DEFAULT	Symbol	Qty	Label
BASEBALL INFIELD	1	2	CLIR 630, OM, N
BASEBALL OUTFIELD	2	36	CLIR 630, OM, M
	3	10	CLIR 630, OM, W
	4	4	CLIR 630, OM, EW

Calculation Summary					
Area Size	Units	Avg	Max	Min	Max/Min
BASEBALL INFIELD	Sq Ft	51.36	59.2	42.8	1.38
BASEBALL OUTFIELD	Sq Ft	11.36	39.2	22.2	1.77
					73
					30
					30
					0.09
					1.18
					0.24
					1.38



STEPHENVILLE CITY PARK
BASEBALL- 300' RADIUS
 22-5534.AGI



DRAWN BY: RBER
 DATE: 7/15/2022
 SCALE: NTS
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