

PROPOSED LED LIGHTING SUMMARY

Lighting System							
Pole / Fixture Summary							
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Group	
S1-S4	70'	70'	3	216 LED	1.80 kW	A	
			7	228 LED	4.41 kW	A	
S5-S8	70'	70'	3	216 LED	1.80 kW	B	
			8	228 LED	5.04 kW	B	
8			84		52.20 kW		
Group Summary							
Group	Description	Load	Fixture Qty				
A	Soccer Field 1	24.84 kW	40				
B	Soccer Field 2	27.36 kW	44				
Fixture Type Summary							
Type	Source	Wattage	Lumens	L80	L80	L70	Quantity
228 LED	LED 5700K - 75 CRI	630W	63,600	38,000	>60,000	>60,000	60
216 LED	LED 5700K - 75 CRI	600W	63,600	38,000	>60,000	>60,000	24
Light Level Summary							
Calculation Grid Summary							
Grid Name	Calculation Metric	Ave	Min	Max	Max/Min	Groups	Fixture Qty
Soccer Field 1	Horizontal Illuminance	30.1	26	36	1.38	A	40
Soccer Field 2	Horizontal Illuminance	30.2	24	35	1.44	B	44
Spill - 0.00fc	Horizontal	2.30	0	37	0.00	A,B	84

0.125-FOOT CANDLE (fc) CONTOUR
USING EXISTING HID FIXTURES
FOR EXISTING SOCCER FIELD

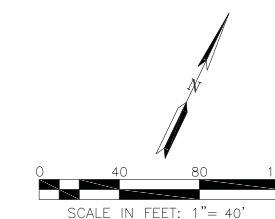
0.125- FOOT CANDLE (fc) CONTOUR
USING LED FIXTURES FOR
EXISTING SOCCER FIELDS



NOTES

- EXISTING HID LIGHT SPILLAGE INFORMATION SOURCED FROM *CONCEPTUAL TECHNICAL PLAN*, PREPARED BY WILLIAM HEZMALHALCH ARCHITECTS, INC. (DATED 12-01-14) AND INCLUDED IN THE FEBRUARY 4, 2015 CITY COUNCIL STAFF REPORT FOR CONDIT-EVERGREEN GENERAL PLAN AMENDMENT (GPA-13-01) AND ENVIRONMENTAL ASSESSMENT (EA-13-09).
- LED FOOT CANDLE SPILLAGE INFORMATION SOURCED AND INTERPOLATED FROM *ILLUMINATION SUMMARY*, PREPARED BY MUSCO LIGHTING (DATED JUNE 1, 2016)
- 0.125 FOOT CANDLES IS THE EQUIVALENT OF MOONLIGHT, PER THE *CONCEPTUAL TECHNICAL PLAN* REFERENCED ABOVE.

EXISTING STADIUM LIGHT FIXTURE



Source: Ruggeri-Jensen-Azar, June 21, 2016.