



	<p>DISCLAIMER: While every care is taken to ensure the accuracy of this data, the City of Joondalup makes no representations or warranties about its accuracy, completeness or suitability for any particular purpose and disclaims all liability for all expenses, losses, damages and costs which you might incur as a result of the data being inaccurate or incomplete in any way and for any reason.</p>	<p>MacDonald Park south</p>	<p>18/05/2020</p>	
			<p>1:2257</p>	



Amateur level - Club Competition & Match Practice (On A1)
Scale= 1: 500

zumtobel group 2/7 Millner Ave, Horsley Park NSW 2175		BEGA Pacific exclusive distributor
Project: Macdonald Reserve (LED - 100LUX)		Page 1 of 2
Client: Stiles Electrical		
Project No: 5985	PT/Quote No: 0001779821	Date: 10/06/2020
Drawing No: 5985-2b	Lighting Engineer: C.A.	
Revision No: 2	File: 5985-2b.AGI	
acdc THORN THORNECO TRIDONIC zgs zumtobel group ZUMTOBEL		



Image File : Champion Pro 396

Luminaire Schedule						
Scene: 100 Lux						
Symbol	Label	Qty	Description	Lum. Watts	Lumens/Lamp	LLF
+	CP3 A60	30	Champion PRO 396L A60V2 CLI L757 MC	1306.726	N.A.	0.850
+	CP3 A60 G	6	Champion PRO 396LA60V2L757 MC GMASK_	1309.187	N.A.	0.850
+	CP2 A45	4	Champion PRO 264L105-757 A45	920	98059	0.850

Calculation Summary						
Scene: 100 Lux						
Label	Description	Avg	Max	Min	Min/Avg	Min/Max
Cricket Nets	Horizontal Illuminance @ Ground Level	71.75	123	29	0.40	0.24
Eh_1	Horizontal plane illuminance on the AFL field	112.32	165	61	0.54	0.37
TI_1	Threshold Increment on Giles Avenue, Heading East	0.45	2	0	0.00	0.00
TI_2	Threshold Increment on Giles Avenue, Heading West	1.26	4	0	0.00	0.00
TI_3	Threshold Increment on Marmon Avenue, Heading Sth	0.77	2	0	0.00	0.00
Evs_1_III_Seg1	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.43	3	1	0.70	0.33
Evs_1_III_Seg10	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg11	Vertical 'wall' illuminance on the Giles Ave residential boundary	4.33	6	3	0.69	0.50
Evs_1_III_Seg12	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.85	3	1	0.54	0.33
Evs_1_III_Seg13	Vertical 'wall' illuminance on the Giles Ave residential boundary	4.65	6	3	0.65	0.50
Evs_1_III_Seg14	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.61	2	1	0.62	0.50
Evs_1_III_Seg15	Vertical 'wall' illuminance on the Giles Ave residential boundary	3.89	5	3	0.77	0.60
Evs_1_III_Seg16	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.53	2	1	0.65	0.50
Evs_1_III_Seg17	Vertical 'wall' illuminance on the Giles Ave residential boundary	4.92	6	4	0.81	0.67
Evs_1_III_Seg18	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.08	3	1	0.48	0.33
Evs_1_III_Seg19	Vertical 'wall' illuminance on the Giles Ave residential boundary	4.57	6	3	0.66	0.50
Evs_1_III_Seg2	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.00	3	1	0.50	0.33
Evs_1_III_Seg20	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg21	Vertical 'wall' illuminance on the Giles Ave residential boundary	5.00	6	4	0.80	0.67
Evs_1_III_Seg22	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg23	Vertical 'wall' illuminance on the Giles Ave residential boundary	5.81	7	4	0.69	0.57
Evs_1_III_Seg24	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg25	Vertical 'wall' illuminance on the Giles Ave residential boundary	6.13	8	4	0.65	0.50
Evs_1_III_Seg26	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg27	Vertical 'wall' illuminance on the Giles Ave residential boundary	4.70	6	3	0.64	0.50
Evs_1_III_Seg28	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg29	Vertical 'wall' illuminance on the Giles Ave residential boundary	3.30	5	2	0.61	0.40
Evs_1_III_Seg3	Vertical 'wall' illuminance on the Giles Ave residential boundary	3.81	7	2	0.52	0.29
Evs_1_III_Seg30	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.63	4	2	0.76	0.50
Evs_1_III_Seg31	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.44	3	2	0.82	0.67
Evs_1_III_Seg32	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.28	3	1	0.44	0.33
Evs_1_III_Seg33	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.10	2	1	0.91	0.50
Evs_1_III_Seg34	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.33	2	1	0.75	0.50
Evs_1_III_Seg35	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.82	1	0	0.00	0.00
Evs_1_III_Seg4	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg5	Vertical 'wall' illuminance on the Giles Ave residential boundary	5.27	7	4	0.76	0.57
Evs_1_III_Seg6	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg7	Vertical 'wall' illuminance on the Giles Ave residential boundary	5.15	7	4	0.78	0.57
Evs_1_III_Seg8	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg9	Vertical 'wall' illuminance on the Giles Ave residential boundary	5.00	6	4	0.80	0.67

Obtrusive Light - Compliance Report
AS/NZS 4282:2019, A3 - Medium District Brightness, Non-Curfew L1
Filename: 5985-2b

Illuminance
Maximum Allowable Value: 10 Lux

Calculations Tested (35):

Calculation Label	Test Results	Max. (Lux)
Evs_1_III_Seg1	PASS	3
Evs_1_III_Seg2	PASS	3
Evs_1_III_Seg3	PASS	6
Evs_1_III_Seg4	PASS	2
Evs_1_III_Seg5	PASS	8
Evs_1_III_Seg6	PASS	2
Evs_1_III_Seg7	PASS	7
Evs_1_III_Seg8	PASS	1
Evs_1_III_Seg9	PASS	7
Evs_1_III_Seg10	PASS	1
Evs_1_III_Seg11	PASS	3
Evs_1_III_Seg12	PASS	3
Evs_1_III_Seg13	PASS	3
Evs_1_III_Seg14	PASS	3
Evs_1_III_Seg15	PASS	6
Evs_1_III_Seg16	PASS	3
Evs_1_III_Seg17	PASS	7
Evs_1_III_Seg18	PASS	4
Evs_1_III_Seg19	PASS	7
Evs_1_III_Seg20	PASS	1
Evs_1_III_Seg21	PASS	8
Evs_1_III_Seg22	PASS	1
Evs_1_III_Seg23	PASS	1
Evs_1_III_Seg24	PASS	1
Evs_1_III_Seg25	PASS	1
Evs_1_III_Seg26	PASS	0
Evs_1_III_Seg27	PASS	0
Evs_1_III_Seg28	PASS	0
Evs_1_III_Seg29	PASS	5
Evs_1_III_Seg30	PASS	4
Evs_1_III_Seg31	PASS	4
Evs_1_III_Seg32	PASS	4
Evs_1_III_Seg33	PASS	2
Evs_1_III_Seg34	PASS	2
Evs_1_III_Seg35	PASS	2

Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value: 12500 Cd

Calculations Tested (35):

Calculation Label	Test Results
Evs_1_CO_Seg1	PASS
Evs_1_CO_Seg2	PASS
Evs_1_CO_Seg3	PASS
Evs_1_CO_Seg4	PASS
Evs_1_CO_Seg5	PASS
Evs_1_CO_Seg6	PASS
Evs_1_CO_Seg7	PASS
Evs_1_CO_Seg8	PASS
Evs_1_CO_Seg9	PASS
Evs_1_CO_Seg10	PASS
Evs_1_CO_Seg11	PASS
Evs_1_CO_Seg12	PASS
Evs_1_CO_Seg13	PASS
Evs_1_CO_Seg14	PASS
Evs_1_CO_Seg15	PASS
Evs_1_CO_Seg16	PASS
Evs_1_CO_Seg17	PASS
Evs_1_CO_Seg18	PASS
Evs_1_CO_Seg19	PASS
Evs_1_CO_Seg20	PASS
Evs_1_CO_Seg21	PASS
Evs_1_CO_Seg22	PASS
Evs_1_CO_Seg23	PASS
Evs_1_CO_Seg24	PASS
Evs_1_CO_Seg25	PASS
Evs_1_CO_Seg26	PASS
Evs_1_CO_Seg27	PASS
Evs_1_CO_Seg28	PASS
Evs_1_CO_Seg29	PASS
Evs_1_CO_Seg30	PASS
Evs_1_CO_Seg31	PASS
Evs_1_CO_Seg32	PASS
Evs_1_CO_Seg33	PASS
Evs_1_CO_Seg34	PASS
Evs_1_CO_Seg35	PASS

Threshold Increment (TI)
Maximum Allowable Value: 20 %

Calculations Tested (3):

Calculation Label	Adaptation Test Results
TI_1	PASS
TI_2	PASS
TI_3	PASS

Upward Waste Light Ratio (UWLR)
Maximum Allowable Value: 2.0 %

Calculated UWLR: 0.1 %
Test Results: PASS

NNote:

- This design is compliant with the requirements of Australian Standards AS2560.2.3-2007 'Lighting of Football' Amateur level - Club Comp & Match Practice, however it should be taken as provisional on as all dimension, pole locations and heights must be confirmed before installation.
- An assessment of the floodlight system in accordance with the requirements of AS/NZS 4282-2019 'The obtrusive effect of outdoor lighting' has been performed and the system is fully compliant for non-curfew Lvl 1, A3 Zone.
- The pole heights specified in this design proposal should be taken as notional and are taken as the vertical distance from the base of the pole to the top cross-arm and assumes that the base is at the same relative height as the centre of the field. They therefore do not take into consideration the topography of the site. An analysis of the site topography should be taken into account when determining the actual required heights of each poles.

LLF: 1 (All On)

Luminaire Location Summary										
Scene: 100 Lux										
LumNo	Label	Pole	X	Y	Z	X-Aimpt	Y-Aimpt	Orient	Tilt	Switched
1	CP3 A60	1	-142.96	32.72	34.5	-74.351	14.335	345	7	On
2	CP3 A60	1	-142.96	32.22	35.18	-74.319	0.209	335	8	On
3	CP3 A60	1	-143.76	31.573	35.18	-84.903	-16.094	321	8	On
4	CP3 A60	1	-144.15	31.261	35.18	-86.136	-17.426	320	8	On
5	CP3 A60	1	-144.94	30.639	35.18	-98.32	-33.529	306	9	On
6	CP3 A60	1	-144.94	30.639	34.5	-100.323	-33.081	305	9	On
7	CP3 A60	1	-145.33	30.327	35.18	-111.813	-41.557	295	9	On
8	CP3 A60	1	-145.72	30.016	34.5	-140.043	-34.921	275	5	On
9	CP3 A60	1	-145.72	30.016	35.18	-138.777	-36.084	276	5	On
10	CP3 A60	2	-13.634	12.359	34.5	-87.637	18.833	175	8	On
11	CP3 A60	2	-13.634	11.859	35.18	-89.378	11.859	180	8	On
12	CP3 A60	2	-13.211	10.953	35.18	-86.374	-8.651	195	8	On
13	CP3 A60	2	-13	10.5	34.5	-76.72	-34.118	215	9	On
14	CP3 A60	2	-13	10.5	35.18	-81.647	-21.511	205	8	On
15	CP3 A60	2	-12.789	10.047	35.18	-70.812	-38.64	220	8	On
16	CP3 A60	2	-12.577	9.594	35.18	-58.161	-50.898	233	8	On
17	CP3 A60	2	-12.366	9.141	35.18	-29.142	-58.144	256	6	On
18	CP3 A60	2	-12.366	9.141	34.5	-29.968	-56.552	255	6	On
19	CP2 A45	NA	-11.3	-5.9	12	3.085	-17.971	320	14	Off
20	CP2 A45	NA	18.8	-5.9	12	4.415	-17.971	220	14	Off
21	CP2 A45	NA	-11.3	-32.6	12	3.085	-20.529	40	14	Off
22	CP2 A45	NA	18.8	-32.6	12	4.415	-20.529	140	14	Off
23	CP3 A60	3	-173.52	-100.33	35.18	-140.324	-32.26	64	8	On
24	CP3 A60	3	-173.52	-100.33	34.5	-142.134	-33.012	65	8	On
25	CP3 A60	3	-173.17	-100.72	35.18	-116.444	-39.892	47	10	On
26	CP3 A60	3	-172.85	-101.11	35.18	-114.833	-52.426	40	8	On
27	CP3 A60	3	-172.22	-101.88	35.18	-110.178	-58.442	35	8	On
28	CP3 A60	3	-172.22	-101.88	34.5	-101.576	-61.099	30	10	On
29	CP3 A60 G	3	-171.63	-102.16	34.5	-100.867	-95.971	5	7	On
30	CP3 A60 G	3	-171.90	-102.27	35.18	-93.745	-73.826	20	10	On
31	CP3 A60 G	3	-171.63	-102.66	35.18	-96.176	-109.263	355	8	On
32	CP3 A60	4	-19.331	-102.25	35.18	-35.079	-28.168	102	8	On
33	CP3 A60	4	-19.331	-102.25	34.5	-36.042	-29.875	103	8	On
34	CP3 A60	4	-19.666	-102.62	35.18	-68.353	-44.605	130	8	On
35	CP3 A60	4	-20	-103	34.5	-77.684	-45.316	135	10	On
36	CP3 A60	4	-20	-103	35.18	-81.814	-47.342	138	10	On
37	CP3 A60	4	-20.334	-103.37	35.18	-82.38	-59.927	145	8	On
38	CP3 A60 G	4	-21.003	-103.61	34.5	-90.959	-91.28	170	7	On
39	CP3 A60 G	4	-20.669	-103.74	35.18	-85.832	-80.026	160	6	On
40	CP3 A60 G	4	-21.003	-104.11	35.18	-84.527	-109.673	185	4	On

Total Quantity: 40

2/7 Millner Ave, Horsley Park NSW 2175			
Project:	Macdonald Reserve (LED - 100LUX)		
Client:	Stiles Electrical		
Project No:	5985	PT/Quote No:	0001779821
Drawing No:	5985-2b	Date:	10/06/2020
Revision No:	2	Lighting Engineer:	C.A.
		File:	5985-2b.AGI
acdc THORN THORNECO TRIDONIC zgs zumtobel group ZUMTOBEL			



Amateur level - Club Competition & Match Practice (On A1)
Scale= 1: 500

zumtobel group
2/7 Millner Ave, Horsley Park NSW 2175

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Project: **Macdonald Reserve (LED - 50LUX)**

Page 1 of 2

Client: **Stiles Electrical**

Project No: 5985	PT/Quote No: 0001779821	Date: 10/06/2020
Drawing No: 5985-2b	Lighting Engineer: C.A.	
Revision No: 2	File: 5985-2b.AGI	



Luminaire Schedule						
Scene: 50 Lux						
Symbol	Label	Qty	Description	Lum. Watts	Lumens/Lamp	LLF
+	CP3 A60	30	Champion PRO 396L A60V2 CLI L757 MC	1306.726	N.A.	0.850
+	CP3 A60 G	6	Champion PRO 396LA60V2L757 MC GMASK_	1309.187	N.A.	0.850
+	CP2 A45	4	Champion PRO 264L105-757 A45	920	98059	0.850

Calculation Summary						
Scene: 50 Lux						
Label	Description	Avg	Max	Min	Min/Avg	Min/Max
Cricket Nets	Horizontal Illuminance @ Ground Level	37.19	65	15	0.40	0.23
Eh_1	Horizontal plane illuminance on the AFL field	61.50	84	34	0.55	0.40
TI_1	Threshold Increment on Giles Avenue, Heading East	0.12	1	0	0.00	0.00
TI_2	Threshold Increment on Giles Avenue, Heading West	0.71	2	0	0.00	0.00
TI_3	Threshold Increment on Marmon Avenue, Heading Sth	0.36	1	0	0.00	0.00
Evs_1_III_Seg1	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.87	2	0	0.00	0.00
Evs_1_III_Seg10	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.67	1	0	0.00	0.00
Evs_1_III_Seg11	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.44	3	2	0.82	0.67
Evs_1_III_Seg12	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.04	2	1	0.96	0.50
Evs_1_III_Seg13	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.51	4	2	0.80	0.50
Evs_1_III_Seg14	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg15	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.22	3	2	0.90	0.67
Evs_1_III_Seg16	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg17	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.53	3	2	0.79	0.67
Evs_1_III_Seg18	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.06	2	1	0.94	0.50
Evs_1_III_Seg19	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.31	3	2	0.87	0.67
Evs_1_III_Seg2	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg20	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.89	1	0	0.00	0.00
Evs_1_III_Seg21	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.56	3	2	0.78	0.67
Evs_1_III_Seg22	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg23	Vertical 'wall' illuminance on the Giles Ave residential boundary	3.00	4	2	0.67	0.50
Evs_1_III_Seg24	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg25	Vertical 'wall' illuminance on the Giles Ave residential boundary	3.24	4	2	0.62	0.50
Evs_1_III_Seg26	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg27	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.44	3	2	0.82	0.67
Evs_1_III_Seg28	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg29	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.70	2	1	0.59	0.50
Evs_1_III_Seg3	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.05	4	1	0.49	0.25
Evs_1_III_Seg30	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.33	2	1	0.75	0.50
Evs_1_III_Seg31	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.22	2	1	0.82	0.50
Evs_1_III_Seg32	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.08	2	1	0.93	0.50
Evs_1_III_Seg33	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.67	1	0	0.00	0.00
Evs_1_III_Seg34	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg35	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.10	1	0	0.00	0.00
Evs_1_III_Seg4	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg5	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.84	4	2	0.70	0.50
Evs_1_III_Seg6	Vertical 'wall' illuminance on the Giles Ave residential boundary	1.00	1	1	1.00	1.00
Evs_1_III_Seg7	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.83	4	2	0.71	0.50
Evs_1_III_Seg8	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.56	1	0	0.00	0.00
Evs_1_III_Seg9	Vertical 'wall' illuminance on the Giles Ave residential boundary	2.76	4	2	0.72	0.50

Luminaire Location Summary										
Scene: 50 Lux										
LumNo	Label	Pole	X	Y	Z	X-Aimpt	Y-Aimpt	Orient	Tilt	Switched
1	CP3 A60	1	-142.96	32.72	34.5	-74.351	14.335	345	7	On
2	CP3 A60	1	-142.96	32.22	35.18	-74.319	0.209	335	8	Off
3	CP3 A60	1	-143.76	31.573	35.18	-84.903	-16.094	321	8	On
4	CP3 A60	1	-144.15	31.261	35.18	-86.136	-17.426	320	8	Off
5	CP3 A60	1	-144.94	30.639	35.18	-98.32	-33.529	306	9	Off
6	CP3 A60	1	-144.94	30.639	34.5	-100.323	-33.081	305	9	On
7	CP3 A60	1	-145.33	30.327	35.18	-111.813	-41.557	295	9	On
8	CP3 A60	1	-145.72	30.016	34.5	-140.043	-34.921	275	5	On
9	CP3 A60	1	-145.72	30.016	35.18	-138.777	-36.084	276	5	Off
10	CP3 A60	2	-13.634	12.359	34.5	-87.637	18.833	175	8	On
11	CP3 A60	2	-13.634	11.859	35.18	-89.378	11.859	180	8	Off
12	CP3 A60	2	-13.211	10.953	35.18	-86.374	-8.651	195	8	On
13	CP3 A60	2	-13	10.5	34.5	-76.72	-34.118	215	9	Off
14	CP3 A60	2	-13	10.5	35.18	-81.647	-21.511	205	8	On
15	CP3 A60	2	-12.789	10.047	35.18	-70.812	-38.64	220	8	On
16	CP3 A60	2	-12.577	9.594	35.18	-58.161	-50.898	233	8	Off
17	CP3 A60	2	-12.366	9.141	35.18	-29.142	-58.144	256	6	On
18	CP3 A60	2	-12.366	9.141	34.5	-29.968	-56.552	255	6	Off
19	CP2 A45	NA	-11.3	-5.9	12	3.085	-17.971	320	14	Off
20	CP2 A45	NA	18.8	-5.9	12	4.415	-17.971	220	14	Off
21	CP2 A45	NA	-11.3	-32.6	12	3.085	-20.529	40	14	Off
22	CP2 A45	NA	18.8	-32.6	12	4.415	-20.529	140	14	Off
23	CP3 A60	3	-173.52	-100.33	35.18	-140.324	-32.26	64	8	On
24	CP3 A60	3	-173.52	-100.33	34.5	-142.134	-33.012	65	8	Off
25	CP3 A60	3	-173.17	-100.72	35.18	-116.444	-39.892	47	10	Off
26	CP3 A60	3	-172.85	-101.11	35.18	-114.833	-52.426	40	8	On
27	CP3 A60	3	-172.22	-101.88	35.18	-110.178	-58.442	35	8	Off
28	CP3 A60	3	-172.22	-101.88	34.5	-101.576	-61.099	30	10	On
29	CP3 A60 G	3	-171.63	-102.16	34.5	-100.867	-95.971	5	7	Off
30	CP3 A60 G	3	-171.90	-102.27	35.18	-93.745	-73.826	20	10	On
31	CP3 A60 G	3	-171.63	-102.66	35.18	-96.176	-109.263	355	8	On
32	CP3 A60	4	-19.331	-102.25	35.18	-35.079	-28.168	102	8	Off
33	CP3 A60	4	-19.331	-102.25	34.5	-36.042	-29.875	103	8	On
34	CP3 A60	4	-19.666	-102.62	35.18	-68.353	-44.605	130	8	On
35	CP3 A60	4	-20	-103	34.5	-77.684	-45.316	135	10	On
36	CP3 A60	4	-20	-103	35.18	-81.814	-47.342	138	10	Off
37	CP3 A60	4	-20.334	-103.37	35.18	-82.38	-59.927	145	8	Off
38	CP3 A60 G	4	-21.003	-103.61	34.5	-90.959	-91.28	170	7	Off
39	CP3 A60 G	4	-20.669	-103.74	35.18	-85.832	-80.026	160	6	On
40	CP3 A60 G	4	-21.003	-104.11	35.18	-84.527	-109.673	185	4	On
Total Quantity: 40										

Obtrusive Light - Compliance Report
AS/NZS 4282:2019, A3 - Medium District Brightness, Non-Curfew L1
Filename: 5985-2b

Illuminance
Maximum Allowable Value: 10 Lux

Calculations Tested (35):

Calculation Label	Test Results	Max. (Lux)
Evs_1_III_Seg1	PASS	3
Evs_1_III_Seg2	PASS	3
Evs_1_III_Seg3	PASS	8
Evs_1_III_Seg4	PASS	2
Evs_1_III_Seg5	PASS	8
Evs_1_III_Seg6	PASS	2
Evs_1_III_Seg7	PASS	7
Evs_1_III_Seg8	PASS	1
Evs_1_III_Seg9	PASS	7
Evs_1_III_Seg10	PASS	1
Evs_1_III_Seg11	PASS	3
Evs_1_III_Seg12	PASS	3
Evs_1_III_Seg13	PASS	3
Evs_1_III_Seg14	PASS	3
Evs_1_III_Seg15	PASS	6
Evs_1_III_Seg16	PASS	3
Evs_1_III_Seg17	PASS	7
Evs_1_III_Seg18	PASS	4
Evs_1_III_Seg19	PASS	8
Evs_1_III_Seg20	PASS	1
Evs_1_III_Seg21	PASS	1
Evs_1_III_Seg22	PASS	1
Evs_1_III_Seg23	PASS	1
Evs_1_III_Seg24	PASS	1
Evs_1_III_Seg25	PASS	0
Evs_1_III_Seg26	PASS	0
Evs_1_III_Seg27	PASS	0
Evs_1_III_Seg28	PASS	0
Evs_1_III_Seg29	PASS	5
Evs_1_III_Seg30	PASS	4
Evs_1_III_Seg31	PASS	4
Evs_1_III_Seg32	PASS	4
Evs_1_III_Seg33	PASS	2
Evs_1_III_Seg34	PASS	2
Evs_1_III_Seg35	PASS	2

Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value: 12500 Cd

Calculations Tested (35):

Calculation Label	Test Results
Evs_1_CO_Seg1	PASS
Evs_1_CO_Seg2	PASS
Evs_1_CO_Seg3	PASS
Evs_1_CO_Seg4	PASS
Evs_1_CO_Seg5	PASS
Evs_1_CO_Seg6	PASS
Evs_1_CO_Seg7	PASS
Evs_1_CO_Seg8	PASS
Evs_1_CO_Seg9	PASS
Evs_1_CO_Seg10	PASS
Evs_1_CO_Seg11	PASS
Evs_1_CO_Seg12	PASS
Evs_1_CO_Seg13	PASS
Evs_1_CO_Seg14	PASS
Evs_1_CO_Seg15	PASS
Evs_1_CO_Seg16	PASS
Evs_1_CO_Seg17	PASS
Evs_1_CO_Seg18	PASS
Evs_1_CO_Seg19	PASS
Evs_1_CO_Seg20	PASS
Evs_1_CO_Seg21	PASS
Evs_1_CO_Seg22	PASS
Evs_1_CO_Seg23	PASS
Evs_1_CO_Seg24	PASS
Evs_1_CO_Seg25	PASS
Evs_1_CO_Seg26	PASS
Evs_1_CO_Seg27	PASS
Evs_1_CO_Seg28	PASS
Evs_1_CO_Seg29	PASS
Evs_1_CO_Seg30	PASS
Evs_1_CO_Seg31	PASS
Evs_1_CO_Seg32	PASS
Evs_1_CO_Seg33	PASS
Evs_1_CO_Seg34	PASS
Evs_1_CO_Seg35	PASS

Threshold Increment (TI)
Maximum Allowable Value: 20 %

Calculations Tested (3):

Calculation Label	Adaptation Test Results
TI_1	PASS
TI_2	PASS
TI_3	PASS

Upward Waste Light Ratio (UWLR)
Maximum Allowable Value: 2.0 %

Calculated UWLR: 0.1 %
Test Results: PASS

LLF: 1 (All On)

NNote:

- This design is compliant with the requirements of Australian Standards AS2560.2.3-2007 'Lighting of Football' Amateur level - Club Comp & Match Practice, however it should be taken as provisional on as all dimension, pole locations and heights must be confirmed before installation.
- An assessment of the floodlight system in accordance with the requirements of AS/NZS 4282-2019 'The obtrusive effect of outdoor lighting' has been performed and the system is fully compliant for non-curfew Lvl 1, A3 Zone.
- The pole heights specified in this design proposal should be taken as notional and are taken as the vertical distance from the base of the pole to the top cross-arm and assumes that the base is at the same relative height as the centre of the field. They therefore do not take into consideration the topography of the site. An analysis of the site topography should be taken into account when determining the actual required heights of each poles.

2/7 Millner Ave, Horsley Park NSW 2175			
Project:	Macdonald Reserve (LED - 50LUX)		
Client:	Stiles Electrical		
Project No:	5985	PT/Quote No:	0001779821
Drawing No:	5985-2b	Date:	10/06/2020
Revision No:	2	Lighting Engineer:	C.A.
		File:	5985-2b.AGI
acdc THORN THORN TRIDONIC zgs zumtobel group ZUMTOBEL			



Amateur level - Club Competition & Match Practice (On A1)
Scale= 1: 500

zumtobel group 2/7 Millner Ave, Horsley Park NSW 2175		BEGA Pacific exclusive distributor
Project: Macdonald Reserve (Cricket Nets)		Page 1 of 2
Client: Stiles Electrical		
Project No: 5985	PT/Quote No: 0001779821	Date: 10/06/2020
Drawing No: 5985-2b	Lighting Engineer: C.A.	
Revision No: 2	File: 5985-2b.AGI	
acdc THORN THORNECO TRIDONIC zgs zumtobel group ZUMTOBEL		



Image File : Champion Pro 396

Luminaire Schedule						
Scene: Cricket Nets						
Symbol	Label	Qty	Description	Lum. Watts	Lumens/Lamp	LLF
+	CP3 A60	30	Champion PRO 396L A60V2 CLI L757 MC	1306.726	N.A.	0.850
+	CP3 A60 G	6	Champion PRO 396LA60V2L757 MC GMASK_	1309.187	N.A.	0.850
+	CP2 A45	4	Champion PRO 264L105-757 A45	920	98059	0.850

Calculation Summary						
Scene: Cricket Nets						
Label	Description	Avg	Max	Min	Min/Avg	Min/Max
Cricket Nets						
Horizontal Illuminance @ Ground Level						
Eh_1	Horizontal plane illuminance on the AFL field	1.05	69	0	0.00	0.00
TI_1	Threshold Increment on Giles Avenue, Heading East	0.00	0	0	N.A.	N.A.
TI_2	Threshold Increment on Giles Avenue, Heading West	0.00	0	0	N.A.	N.A.
TI_3	Threshold Increment on Marmion Avenue, Heading Sth	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg1	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg10	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg11	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg12	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg13	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg14	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg15	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg16	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg17	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg18	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg19	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg2	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg20	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg21	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg22	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg23	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg24	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg25	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg26	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg27	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg28	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg29	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg3	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg30	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg31	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg32	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg33	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg34	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg35	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg4	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg5	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg6	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg7	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg8	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.
Evs_1_III_Seg9	Vertical 'wall' illuminance on the Giles Ave residential boundary	0.00	0	0	N.A.	N.A.

Luminaire Location Summary										
Scene: Cricket Nets										
LumNo	Label	Pole	X	Y	Z	X-Aimpt	Y-Aimpt	Orient	Tilt	Switched
1	CP3 A60	1	-142.96	32.72	34.5	-74.351	14.335	345	7	Off
2	CP3 A60	1	-142.96	32.22	35.18	-74.319	0.209	335	8	Off
3	CP3 A60	1	-143.76	31.573	35.18	-84.903	-16.094	321	8	Off
4	CP3 A60	1	-144.15	31.261	35.18	-86.136	-17.426	320	8	Off
5	CP3 A60	1	-144.94	30.639	35.18	-98.32	-33.529	306	9	Off
6	CP3 A60	1	-144.94	30.639	34.5	-100.323	-33.081	305	9	Off
7	CP3 A60	1	-145.33	30.327	35.18	-111.813	-41.557	295	9	Off
8	CP3 A60	1	-145.72	30.016	34.5	-140.043	-34.921	275	5	Off
9	CP3 A60	1	-145.72	30.016	35.18	-138.777	-36.084	276	5	Off
10	CP3 A60	2	-13.634	12.359	34.5	-87.637	18.833	175	8	Off
11	CP3 A60	2	-13.634	11.859	35.18	-89.378	11.859	180	8	Off
12	CP3 A60	2	-13.211	10.953	35.18	-86.374	-8.651	195	8	Off
13	CP3 A60	2	-13	10.5	34.5	-76.72	-34.118	215	9	Off
14	CP3 A60	2	-13	10.5	35.18	-81.647	-21.511	205	8	Off
15	CP3 A60	2	-12.789	10.047	35.18	-70.812	-38.64	220	8	Off
16	CP3 A60	2	-12.577	9.594	35.18	-58.161	-50.898	233	8	Off
17	CP3 A60	2	-12.366	9.141	35.18	-29.142	-58.144	256	6	Off
18	CP3 A60	2	-12.366	9.141	34.5	-29.968	-56.552	255	6	Off
19	CP2 A45	NA	-11.3	-5.9	12	3.085	-17.971	320	14	On
20	CP2 A45	NA	18.8	-5.9	12	4.415	-17.971	220	14	On
21	CP2 A45	NA	-11.3	-32.6	12	3.085	-20.529	40	14	On
22	CP2 A45	NA	18.8	-32.6	12	4.415	-20.529	140	14	On
23	CP3 A60	3	-173.52	-100.33	35.18	-140.324	-32.26	64	8	Off
24	CP3 A60	3	-173.52	-100.33	34.5	-142.134	-33.012	65	8	Off
25	CP3 A60	3	-173.17	-100.72	35.18	-116.444	-39.892	47	10	Off
26	CP3 A60	3	-172.85	-101.11	35.18	-114.833	-52.426	40	8	Off
27	CP3 A60	3	-172.22	-101.88	35.18	-110.178	-58.442	35	8	Off
28	CP3 A60	3	-172.22	-101.88	34.5	-101.576	-61.099	30	10	Off
29	CP3 A60 G	3	-171.63	-102.16	34.5	-100.867	-95.971	5	7	Off
30	CP3 A60 G	3	-171.90	-102.27	35.18	-93.745	-73.826	20	10	Off
31	CP3 A60 G	3	-171.63	-102.66	35.18	-96.176	-109.263	355	8	Off
32	CP3 A60	4	-19.331	-102.25	35.18	-35.079	-28.168	102	8	Off
33	CP3 A60	4	-19.331	-102.25	34.5	-36.042	-29.875	103	8	Off
34	CP3 A60	4	-19.666	-102.62	35.18	-68.353	-44.605	130	8	Off
35	CP3 A60	4	-20	-103	34.5	-77.684	-45.316	135	10	Off
36	CP3 A60	4	-20	-103	35.18	-81.814	-47.342	138	10	Off
37	CP3 A60	4	-20.334	-103.37	35.18	-82.38	-59.927	145	8	Off
38	CP3 A60 G	4	-21.003	-103.61	34.5	-90.959	-91.28	170	7	Off
39	CP3 A60 G	4	-20.669	-103.74	35.18	-85.832	-80.026	160	6	Off
40	CP3 A60 G	4	-21.003	-104.11	35.18	-84.527	-109.673	185	4	Off
Total Quantity: 40										

Obtrusive Light - Compliance Report
AS/NZS 4282:2019 A3 - Medium Distinct Brightness, Non-Curfew L1
Filename: 5985-2b

Illuminance
Maximum Allowable Value: 10 Lux

Calculations Tested (35):

Calculation Label	Test Results	Max. (Lux)
Evs_1_III_Seg1	PASS	3
Evs_1_III_Seg2	PASS	3
Evs_1_III_Seg3	PASS	8
Evs_1_III_Seg4	PASS	2
Evs_1_III_Seg5	PASS	8
Evs_1_III_Seg6	PASS	2
Evs_1_III_Seg7	PASS	7
Evs_1_III_Seg8	PASS	1
Evs_1_III_Seg9	PASS	7
Evs_1_III_Seg10	PASS	1
Evs_1_III_Seg11	PASS	7
Evs_1_III_Seg12	PASS	3
Evs_1_III_Seg13	PASS	3
Evs_1_III_Seg14	PASS	3
Evs_1_III_Seg15	PASS	6
Evs_1_III_Seg16	PASS	3
Evs_1_III_Seg17	PASS	7
Evs_1_III_Seg18	PASS	4
Evs_1_III_Seg19	PASS	1
Evs_1_III_Seg20	PASS	1
Evs_1_III_Seg21	PASS	1
Evs_1_III_Seg22	PASS	8
Evs_1_III_Seg23	PASS	1
Evs_1_III_Seg24	PASS	1
Evs_1_III_Seg25	PASS	0
Evs_1_III_Seg26	PASS	0
Evs_1_III_Seg27	PASS	0
Evs_1_III_Seg28	PASS	0
Evs_1_III_Seg29	PASS	0
Evs_1_III_Seg30	PASS	4
Evs_1_III_Seg31	PASS	4
Evs_1_III_Seg32	PASS	4
Evs_1_III_Seg33	PASS	2
Evs_1_III_Seg34	PASS	2
Evs_1_III_Seg35	PASS	2

Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value: 12500 Cd

Calculations Tested (35):

Calculation Label	Test Results
Evs_1_CO_Seg1	PASS
Evs_1_CO_Seg2	PASS
Evs_1_CO_Seg3	PASS
Evs_1_CO_Seg4	PASS
Evs_1_CO_Seg5	PASS
Evs_1_CO_Seg6	PASS
Evs_1_CO_Seg7	PASS
Evs_1_CO_Seg8	PASS
Evs_1_CO_Seg9	PASS
Evs_1_CO_Seg10	PASS
Evs_1_CO_Seg11	PASS
Evs_1_CO_Seg12	PASS
Evs_1_CO_Seg13	PASS
Evs_1_CO_Seg14	PASS
Evs_1_CO_Seg15	PASS
Evs_1_CO_Seg16	PASS
Evs_1_CO_Seg17	PASS
Evs_1_CO_Seg18	PASS
Evs_1_CO_Seg19	PASS
Evs_1_CO_Seg20	PASS
Evs_1_CO_Seg21	PASS
Evs_1_CO_Seg22	PASS
Evs_1_CO_Seg23	PASS
Evs_1_CO_Seg24	PASS
Evs_1_CO_Seg25	PASS
Evs_1_CO_Seg26	PASS
Evs_1_CO_Seg27	PASS
Evs_1_CO_Seg28	PASS
Evs_1_CO_Seg29	PASS
Evs_1_CO_Seg30	PASS
Evs_1_CO_Seg31	PASS
Evs_1_CO_Seg32	PASS
Evs_1_CO_Seg33	PASS
Evs_1_CO_Seg34	PASS
Evs_1_CO_Seg35	PASS

Threshold Increment (TI)
Maximum Allowable Value: 20 %

Calculations Tested (3):

Calculation Label	Adaptation Test Results
TI_1	PASS
TI_2	PASS
TI_3	PASS

Upward Waste Light Ratio (UWLR)
Maximum Allowable Value: 2.0 %

Calculated UWLR: 0.1 %
Test Results: PASS

LLF: 1 (All On)

NNote:

- This design is compliant with the requirements of Australian Standards AS2560.2.3-2007 'Lighting of Football' Amateur level - Club Comp & Match Practice, however it should be taken as provisional on as all dimension, pole locations and heights must be confirmed before installation.
- An assessment of the floodlight system in accordance with the requirements of AS/NZS 4282-2019 'The obtrusive effect of outdoor lighting' has been performed and the system is fully compliant for non-curfew Lvl 1, A3 Zone.
- The pole heights specified in this design proposal should be taken as notional and are taken as the vertical distance from the base of the pole to the top cross-arm and assumes that the base is at the same relative height as the centre of the field. They therefore do not take into consideration the topography of the site. An analysis of the site topography should be taken into account when determining the actual required heights of each poles.

2/7 Millner Ave, Horsley Park NSW 2175		
Project:	Macdonald Reserve (Cricket Nets)	
Client:	Stiles Electrical	
Project No:	5985	PT/Quote No: 0001779821
Drawing No:	5985-2b	Date: 10/06/2020
Revision No:	2	Lighting Engineer: C.A.
		File: 5985-2b.AGI
acdc THORN THORNECO TRIDONIC zgs zumtobel group ZUMTOBEL		

Cost estimate - MacDonald Park south floodlighting upgrade			
Prepared by the City of Joondalup (Infrastructure Management Services)			
Component	50 lux	100 lux	Eligible CSRFF cost 50 lux
Contingency for rock removal	N/A	N/A	N/A
Upgrade of Western Power supply to site	N/A	N/A	N/A
Liaison with Western Power to provide headwork	N/A	N/A	N/A
Upgrade existing DB-1 switchboard	\$ 7,020.00	\$ 7,020.00	\$ 7,020.00
Consumer mains cabling	N/A	N/A	N/A
Submain cabling	\$ 23,400.00	\$ 23,400.00	\$ 23,400.00
Cable support system	N/A	N/A	N/A
Earthing systems	Included	Included	Included
Floodlights - supply only	\$ 71,300.00	\$ 118,800.00	\$ 71,300.00
Light poles - installation only	\$ 3,800.00	\$ 3,800.00	\$ 3,800.00
Lighting installation, including circuit cabling and accessories	\$ 23,461.00	\$ 23,461.00	\$ 23,461.00
Light pole footing and excavation	\$ 24,315.00	\$ 24,315.00	\$ 24,315.00
Lighting control	\$ 15,572.20	\$ 15,572.20	\$ 15,572.20
General trenching and excavation and backfilling	\$ 18,210.00	\$ 18,210.00	\$ 18,210.00
Underground conduit installation	\$ 8,383.00	\$ 8,383.00	\$ 8,383.00
Cable pit installation	\$ 8,177.00	\$ 8,177.00	\$ 8,177.00
Remove and dispose of existing floodlight poles including concrete footings, associated electrical equipment and making good	\$ 5,325.00	\$ 5,325.00	\$ 5,325.00
Associated builders work (including permits)	\$ 6,792.38	\$ 6,792.38	\$ 6,792.38
Testing and commissioning	\$ 5,620.00	\$ 5,620.00	\$ 5,620.00
As built drawings and maintenance handbooks	\$ 2,280.00	\$ 2,280.00	\$ 2,280.00
Maintenance during defects period	Included	Included	Included
Provisional sum - Western Power headworks	N/A	N/A	N/A
Pole price - 35 metre (4)	\$ 37,994.00	\$ 37,994.00	\$ 37,994.00
Passive recreation lights	\$ 11,762.70	\$ 11,762.70	\$ 11,762.70
Design documentation fee	\$ 7,000.00	\$ 7,000.00	\$ 7,000.00
Project management fee	\$ 10,000.00	\$ 10,000.00	\$ -
Total playing field lighting	\$ 290,412.28	\$ 337,912.28	\$ 280,412.28
Pole price - 12 metre (4)	\$ 5,000.00	\$ 5,000.00	\$ 5,000.00
Cricket net pedestal mounted GPO and CCT	\$ 13,700.00	\$ 13,700.00	\$ 13,700.00
Cricket net sports lighting (associated works)	\$ 40,970.80	\$ 40,970.80	\$ 40,970.80
Total cricket net lighting	\$ 59,670.80	\$ 59,670.80	\$ 59,670.80
Total floodlighting project	\$ 350,083.08	\$ 397,583.08	\$ 340,083.08
GST	\$ 35,008.31	\$ 39,758.31	\$ 34,008.31
Total including GST	\$ 385,091.39	\$ 437,341.39	\$ 374,091.39
CSRFF application amount ex GST			\$ 113,361.03
GST			\$ 11,336.10
Total including GST			\$ 124,697.13

Sorrento Bowling Club proposed works

Extend green playing surface by six metres and convert to a synthetic bowling green.



Cost estimate	
Component	Cost estimate
Synthetic turf works (includes removal of old grass, new base preparation and all associated works and synthetic turf)	\$ 250,000
Fencing /retaining walls / shade structure extension	\$ 27,300
Reticulation	\$ 11,000
Floodlighting E green	\$ 65,000
Tree removal / amenity	\$ 17,792
Sub total excluding GST	\$ 371,092
Professional fees (12%)	\$ 44,531
Contingency (10%)	\$ 37,109
Cost escalation (3%)	\$ 11,133
Total project expenditure excluding GST	\$ 463,865



COMMUNITY CONSULTATION OUTCOMES REPORT

MacDonald Park (South), Padbury
— Proposed Sports Floodlighting
Upgrade

CONTENTS

OVERVIEW	3
STAKEHOLDERS.....	4
CONSULTATION MATERIALS.....	5
RESPONSE RATE	9
DEMOGRAPHICS	10
COMMENT FORM QUESTIONS	14
APPENDIX.....	16

OVERVIEW

The community was invited to provide feedback on a proposal to upgrade the sports floodlighting at MacDonald Park (south), Padbury from 4 May 2020 to 25 May 2020. Feedback was sought by way of an Online Comment Form to determine the overall level of community support for the proposal.

The City collected 137 valid responses throughout the 22-day advertised consultation period. A total of 15 responses were received from local residents and ratepayers within a 200 metres radius of MacDonald Park, and 15 responses were received from Community Engagement Network members residing in Padbury and Hillarys. A total of 5 responses were received from park user groups including:

- West Perth Football Club
- Whitford Amateur Football Club
- Whitford Junior Cricket Club
- Whitford Junior Football Club
- Whitfords & Districts Senior Cricket Club

This indicates an overall response rate of 3.4% (for stakeholders who had been engaged directly by the City). A further 105 community members who were not directly engaged also provided feedback.

Respondents were asked to indicate their level of support for the upgrading of sports floodlighting on a 5-point scale from “strongly oppose” to “strongly support”. Almost 90% of respondents indicated that they either “support” or “strongly support” the upgrading of sports floodlighting at MacDonald Park.

Additional comments from respondents offered general support for the proposal, and described the view that upgraded sports floodlighting would be good for sports training/games and good for community use and park safety.

STAKEHOLDERS

A total of 1,018 stakeholders were directly engaged by the City. Stakeholders identified included:

- Local residents and ratepayers within a 200 metres radius of MacDonald Park = 569
- Community Engagement Network Members residing in Padbury and Hillarys = 441
- Resident/ratepayer groups = 2
 - Padbury Residents Association Inc
 - Whitford Community, Ratepayers & Recreation Association Inc.
- MacDonald Park user groups = 6
 - Padbury Fit Club
 - West Perth Football Club
 - Whitford Amateur Football Club
 - Whitford Junior Cricket Club
 - Whitford Junior Football Club
 - Whitfords & Districts Senior Cricket Club

Additional stakeholders, including park visitors and interested residents and ratepayers living further than 200 metres from the park, were also indirectly engaged by the City via the consultation materials described below.

CONSULTATION MATERIALS

Local residents and ratepayers within a 200 metres radius of MacDonald Park were sent information packs through the post on 4 May 2020 containing a cover letter and Frequently Asked Questions document. These stakeholders were directed via the cover letter to the City's website to complete the Online Comment Form.

Community Engagement Network members residing in Padbury and Hillarys were sent emails on 4 May 2020 advising them of the consultation and linking them to the City's website to view the Frequently Asked Questions and the Online Comment Form.

The 2 resident/ratepayer groups and the 6 MacDonald Park user groups were sent emails on 4 May 2020 advising them of the consultation and seeking a formal written response representing the views of their group. The City requested their feedback be submitted either via email or letter.

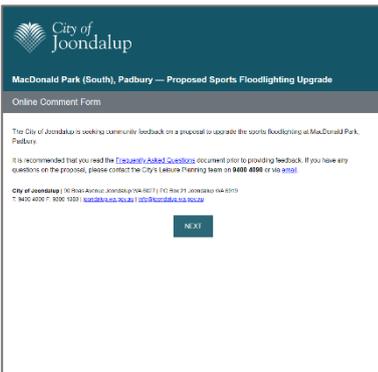
Cover letter to local residents and ratepayers within a 200 metres radius of MacDonald Park, email to Community Engagement Network members residing in Padbury and Hillarys, and email to MacDonald Park user groups (see Appendix 1–4 for full):



Frequently Asked Questions (see Appendix 5 for full):



Online Comment Form (see Appendix 6 for full):



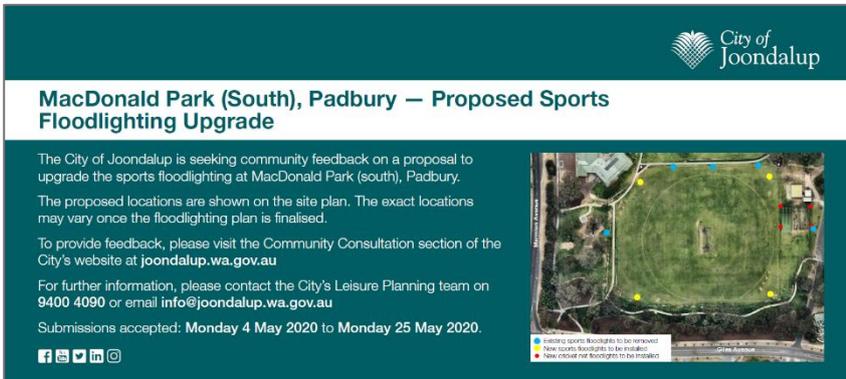
In addition to directly contacting identified stakeholders via post and email, the City advertised the consultation to other community members via the following means:

- Webpage linked through the “Community Consultation” section of the City’s website visible from 4 May 2020 to 25 May 2020.
- Signage erected at 2 locations at MacDonald Park from 4 May 2020 to 25 May 2020.
- Joondalup Voice article published in the *Joondalup Times* community newspaper on 14 May 2020, available online and emailed to subscribers of the Joondalup Voice eNewsletter on 15 May 2020.
- Facebook post published through the City’s Facebook account on 5 May 2020.
- Twitter post published through the City’s Twitter account on 5 May 2020.

Community Consultation webpage on the City’s website (see Appendix 7 for full):



Signage erected at MacDonald Park (see Appendix 8–9 for full):



Photographs of signage in situ at MacDonald Park:



Joondalup Voice article (community newspaper and eNewsletter) (see Appendix 10–11 for full):



Facebook and Twitter posts (see Appendix 12–13 for full):



Further to the City's communication, an article about the consultation appeared in the online *Joondalup Times* community newspaper on 5 May 2020. The Joondalup–Wanneroo Times/Weekender Facebook and Twitter accounts also posted about the consultation on 5 May 2020.

Article in the online *Joondalup Times* community newspaper (see Appendix 14 for full):



Facebook and Twitter posts from Joondalup–Wanneroo Times/Weekender (see Appendix 15–16 for full):

Joondalup-Wanneroo Times/Weekender
5 May at 14:01

The City of Joondalup is seeking feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park in Padbury.



PERTHNOW.COM.AU
Feedback sought on sports lighting
The City of Joondalup is seeking feedback on a proposal to upgrade the...

3 7 comments

Like Comment Share

JoonWannTimes @JoonWannTimes · May 5

The @City_Joondalup is seeking feedback on a proposal to upgrade the #sports floodlighting on the southern playing field at MacDonald Park in #Padbury #perthnews



Feedback sought on sports lighting
The City of Joondalup is seeking feedback on a proposal to upgrade the sports floodlighting at one of its major parks.
perthnow.com.au

Comment Retweet Like Share

RESPONSE RATE

The City collected a total of 137 valid responses throughout the 22-day advertised consultation period. Responses that were considered valid include all those which contained contact details enabling identification and were submitted within the advertised timeframe.

Of the 569 residents and ratepayers within a 200 metres radius of MacDonald Park, 15 submitted feedback. A total of 15 Community Engagement Network members submitted feedback, as well as 105 community members who were not directly engaged.

In relation to park user groups, the City received a response from representatives of the following clubs:

- West Perth Football Club
- Whitford Amateur Football Club
- Whitford Junior Cricket Club
- Whitford Junior Football Club
- Whitfords & Districts Senior Cricket Club

(Note that an analysis of these stakeholder responses has not been included in this report. Full verbatim responses are provided at Appendix 17–21.)

The overall response rate is 3.4% from stakeholders who were engaged directly by the City. The majority of responses came from community members who were engaged indirectly. This data is shown in the table below.

	Feedback sought	Feedback received	Response rate
Responses received by stakeholder type:	N	N*	%
Local residents and ratepayers within a 200 metres radius of MacDonald Park	569	15	2.6%
Community Engagement Network Members (Padbury and Hillarys)	441	15	3.4%
Resident/ratepayer groups	2	0	0.0%
Padbury Residents Association Inc	1	0	0.0%
Whitford Community, Ratepayers & Recreation Association Inc.	1	0	0.0%
MacDonald Park user groups	6	5	83.3%
Padbury Fit Club	1	0	0.0%
West Perth Football Club	1	1	100.0%
Whitford Amateur Football Club	1	1	100.0%
Whitford Junior Cricket Club	1	1	100.0%
Whitford Junior Football Club	1	1	100.0%
Whitfords & Districts Senior Cricket Club	1	1	100.0%
Other community members (engaged indirectly)	—	105	—
Total response rate (engaged directly)	1,018	35	3.4%
Total responses	—	137	—

*Numbers may not add up to total, as respondents can represent multiple stakeholder types.

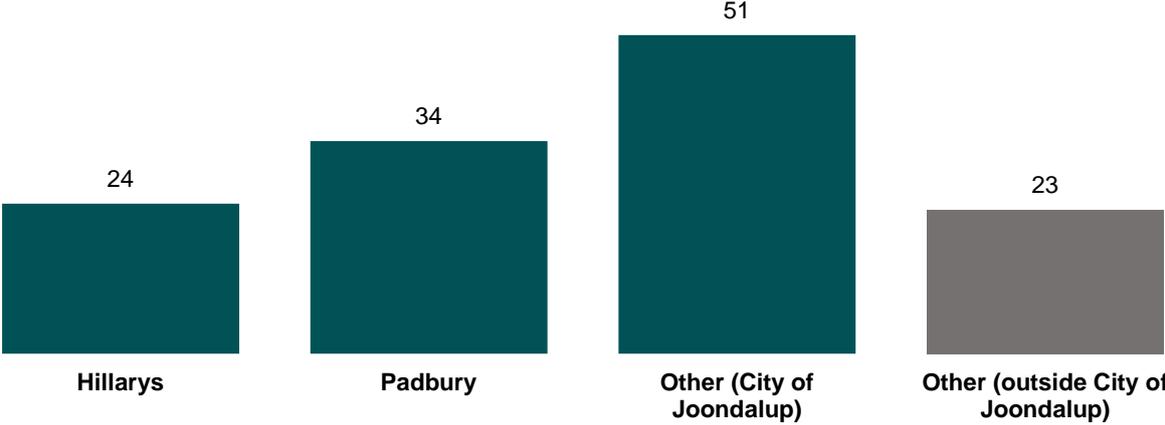
DEMOGRAPHICS

Respondent address

Community members were asked to provide their contact address and over 80% of respondents reside in suburbs located within the City of Joondalup (109). In particular, a high number of respondents reside in Padbury (34) and Hillarys (24). A further 23 respondents reside in suburbs located outside of the City of Joondalup. This data is shown in the table and chart below.

Responses received by suburb and ward:	N	%
City of Joondalup	109	82.6%
North Ward	2	1.5%
Burns Beach	0	0.0%
Currambine	0	0.0%
Iluka	1	0.8%
Joondalup	1	0.8%
Kinross	0	0.0%
North Central Ward	16	12.1%
Connolly	1	0.8%
Edgewater	2	1.5%
Heathridge	1	0.8%
Mullaloo	8	6.1%
Ocean Reef	4	3.0%
Central Ward	25	18.9%
Beldon	1	0.8%
Craigie	8	6.1%
Kallaroo	8	6.1%
Woodvale	8	6.1%
South-East Ward	4	3.0%
Greenwood	2	1.5%
Kingsley	2	1.5%
South-West Ward	60	45.5%
Hillarys	24	18.2%
Padbury	34	25.8%
Sorrento	2	1.5%
South Ward	2	1.5%
Duncraig	2	1.5%
Marmion	0	0.0%
Warwick	0	0.0%
Outside of City of Joondalup	23	17.4%
Total responses (community members)	132	100.0%

Responses received by suburb:

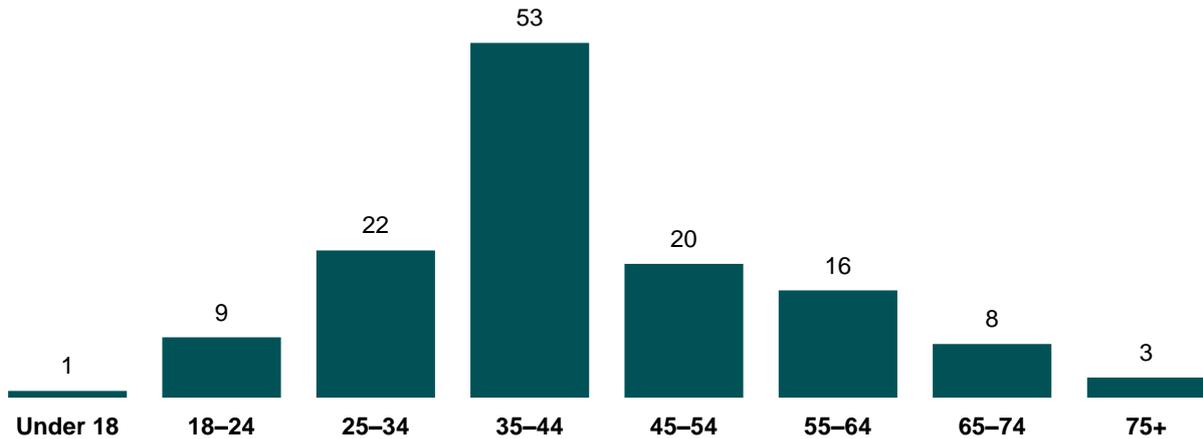


Respondent age

Respondents were asked to provide their age and approximately 40% are aged 35–44 years (53). A further 22 respondents are aged 25–34 years, and 20 respondents are aged 45–54 years. Few respondents are aged under 25 years (10), or 65 years and over (11). This data is shown in the table and chart below.

Responses received by age:	N	%
Under 18 years	1	0.8%
18–24 years	9	6.8%
25–34 years	22	16.7%
35–44 years	53	40.2%
45–54 years	20	15.2%
55–64 years	16	12.1%
65–74 years	8	6.1%
75+ years	3	2.3%
Total responses (community members)	132	100.0%

Responses received by age:



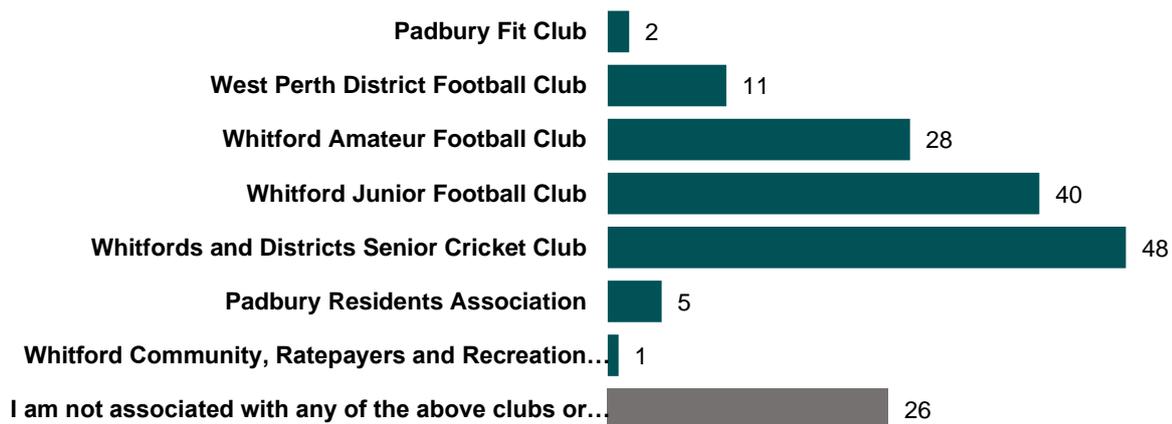
Respondent membership/affiliation to park user groups/community groups

Respondents were asked to identify whether they are a member of, or affiliated with, any of the MacDonald Park user groups or community groups. Approximately one-third of respondents indicated that they are members of, or affiliated with, Whitfords and Districts Senior Cricket Club (48), and 40 respondents indicated that they are members of, or affiliated with Whitford Junior Football Club. This data is shown in the table and chart below.

Responses received by membership/affiliation to park user groups/ community groups:	N*	%
Padbury Fit Club	2	1.5%
West Perth District Football Club	11	8.3%
Whitford Amateur Football Club	28	21.2%
Whitford Junior Football Club	40	30.3%
Whitfords and Districts Senior Cricket Club	48	36.4%
Padbury Residents Association	5	3.8%
Whitford Community, Ratepayers and Recreation Association Inc	1	0.8%
I am not associated with any of the above clubs or groups	26	19.7%
No response	2	1.5%
Total responses (community members)	132	—

*Numbers may not add up to total, as respondents can select multiple options.

Responses received by membership/affiliation to park user groups/community groups:



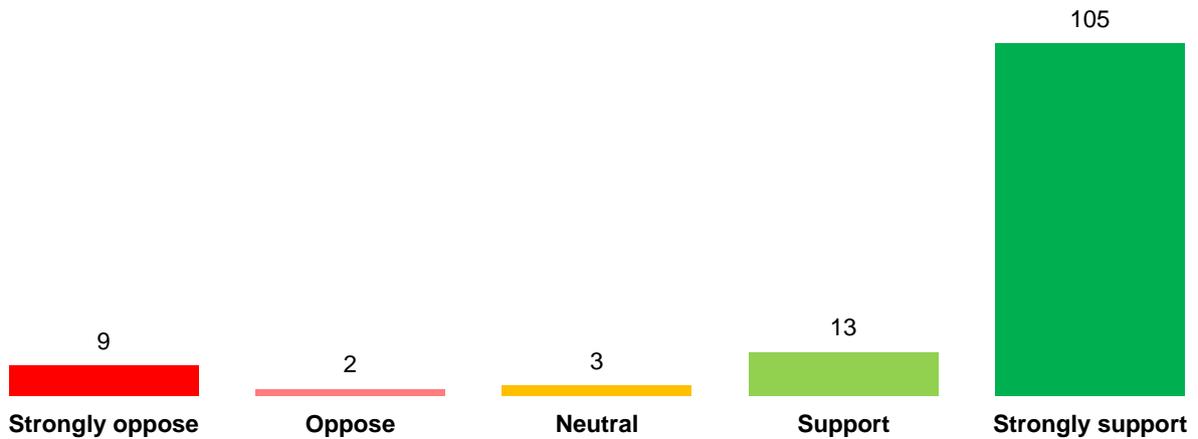
COMMENT FORM QUESTIONS

QUESTION: “Please indicate your level of support for the proposed upgrade of sports floodlighting at MacDonald Park (south), Padbury, as described in the Frequently Asked Questions”

Respondents were asked to indicate their level of support for the proposed upgrade of sports floodlighting on a 5-point scale from “strongly oppose” to “strongly support”. Almost 90% of respondents indicated that they either “support” (13) or “strongly support” (105) the proposed upgrade. This data is shown in the table and chart below.

Please indicate your level of support for the proposed upgrade of sports floodlighting at MacDonald Park (south), Padbury, as described in the Frequently Asked Questions:	N	%
Strongly oppose	9	6.8%
Oppose	2	1.5%
Neutral	3	2.3%
Support	13	9.8%
Strongly support	105	79.5%
Total responses (community members)	132	100.0%

Please indicate your level of support for the proposed upgrade of sports floodlighting at MacDonald Park (south), Padbury, as described in the Frequently Asked Questions:



QUESTION: “Do you have any comments about the proposed sports floodlighting upgrade?”

Respondents were asked if they have any comments about the proposed sports floodlighting upgrade. Approximately two-thirds of respondents provided comments, and these vary in subject matter. Common themes included the view that upgraded sports floodlighting would be good for sports training/games (47); and the view that upgraded sports floodlighting would be good for community use/park safety (19). These comments have been broadly grouped and summarised in the table below. Verbatim comments have been randomised and are provided at Appendix 22.

Do you have any comments about the proposed sports floodlighting upgrade?	N*	%
Support proposed sports floodlighting upgrade (in general)	11	8.3%
Good for sports training/games	47	35.6%
Good for community use/park safety	19	14.4%
Waste of money/should spend money on other projects	8	6.1%
Concern light spill will impact surrounding homes	4	3.0%
Concern view of cricket pitch from balcony would be obstructed by floodlighting pole	3	2.3%
Lighting should be suitable for small ball sports (particularly cricket)	7	5.3%
Would like better lighting for pathways/underpass/playground	5	3.8%
Other/miscellaneous comment	15	11.4%
Total comments	87	65.9%
Total responses (community members)	132	100.0%

*Numbers may not add up to total, as respondents may have addressed more than one subject.

APPENDIX 1 — Cover letter to local residents and ratepayers within a 200 metres radius of MacDonald Park



Date: 4 May 2020

Your Ref:

A Global City: Bold | Creative | Prosperous

Enquiries: Leisure Planning
9400 4090

Our Ref: 108392

John Citizen
Address Line 1
Address Line 2
Address Line 3

Dear Mr Citizen

COMMUNITY CONSULTATION: MACDONALD PARK (SOUTH), PADBURY — PROPOSED SPORTS FLOODLIGHTING UPGRADE

As the COVID-19 issue continues to evolve, the City of Joondalup recognises this is a difficult and uncertain time for many members of the community. The City's response to the many challenges presented by COVID-19 is guided by the Federal Government and Department of Health WA. At the same time, the City is also planning for the recovery phase and, where possible, will continue to deliver projects that create social and economic benefits.

With this in mind, the City is seeking community feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park, Padbury. Community consultation on this upgrade forms part of a joint funding proposal for the State Government's Community Sporting and Recreation Facilities Fund.

A detailed description of the proposed sports floodlighting upgrade is included in the enclosed Frequently Asked Questions. Feedback on the proposal can be provided through the Online Comment Form available via the Community Consultation section of the City's website at joondalup.wa.gov.au

For further information please contact the City's Leisure Planning team on **9400 4090** or via email to info@joondalup.wa.gov.au Feedback must be received by **Monday 25 May 2020**.

Yours sincerely

A handwritten signature in blue ink, appearing to read "Mike Smith".

MIKE SMITH
Manager Leisure and Cultural Services

APPENDIX 2 — Email to Community Engagement Network members residing in Padbury and Hillarys

From: Consultation
Sent: Monday, 4 May 2020 10:37 AM
Subject: Community Consultation - MacDonald Park (South), Padbury, Proposed Sports Floodlighting Upgrade

Dear Community Engagement Network Members

As the COVID-19 issue continues to evolve, the City of Joondalup recognises this is a difficult and uncertain time for many members of the community. The City's response to the many challenges presented by COVID-19 is guided by the Federal Government and Department of Health WA. At the same time, the City is also planning for the recovery phase and, where possible, will continue to deliver projects that create social and economic benefits.

With this in mind, the City is seeking community feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park, Padbury. Community consultation on this upgrade forms part of a joint funding proposal for the State Government's Community Sporting and Recreation Facilities Fund.

A detailed description of the proposed sports floodlighting upgrade is included in the [Frequently Asked Questions](#). Feedback on the proposal can be provided through the [Online Comment Form](#). All feedback must be received by **Monday 25 May 2020**.

For further information please contact the City's **Leisure Planning** team on **9400 4090** or via [email](#).

Community Engagement Network
City of Joondalup

Tel: 08 9400 4000
Fax: 08 9300 1383
Email: info@joondalup.wa.gov.au



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APPENDIX 3 — Email to resident/ratepayer groups

From: Consultation
Sent: Monday, 4 May 2020 1:28 PM
To: [REDACTED]
Subject: Community Consultation - MacDonald Park (South), Padbury, Proposed Sports Floodlighting Upgrade

Dear [REDACTED]

As the COVID-19 issue continues to evolve, the City of Joondalup recognises this is a difficult and uncertain time for many members of the community. The City's response to the many challenges presented by COVID-19 is guided by the Federal Government and Department of Health WA. At the same time, the City is also planning for the recovery phase and, where possible, will continue to deliver projects that create social and economic benefits.

With this in mind, the City is seeking community feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park, Padbury. Community consultation on this upgrade forms part of a joint funding proposal for the State Government's Community Sporting and Recreation Facilities Fund.

A detailed description of the proposed sports floodlighting upgrade is included in the [Frequently Asked Questions](#). If you wish to provide feedback on behalf of [REDACTED] please send your written comments to the City via [email](#) or via post to:

**Attention: Leisure Planning
City of Joondalup
PO Box 21
Joondalup WA 6919**

An [Online Comment Form](#) is also available for general community members, and the City would appreciate you sharing the consultation information with your members and networks.

All feedback must be received by **Monday 25 May 2020**. For further information please contact the City's **Leisure Planning team** on **9400 4090** or via [email](#).

City of Joondalup

Tel: 08 9400 4000
Fax: 08 9300 1383
Email: info@joondalup.wa.gov.au



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APPENDIX 4 — Email to MacDonald Park user groups

From: [REDACTED]
Sent: Monday, 4 May 2020 1:30 PM
Subject: Community Consultation - MacDonald Park (South), Padbury, Proposed Sports Floodlighting Upgrade

Good afternoon

The City of Joondalup is seeking feedback on a proposal to upgrade the sports floodlighting on the southern playing field and cricket nets at MacDonald Park, Padbury. You are being contacted as your club currently uses the park for training and/or games.

The City is seeking a formal response from your club in writing either via [REDACTED] or via post to:

**Attention: Leisure Planning
City of Joondalup
PO Box 21
Joondalup WA 6919**

It is suggested that you discuss the proposal with your committee or members and ensure your response represents the views of your club.

An [Online Comment Form](#) is also available for general community members, and the City would appreciate you sharing the consultation information with your members and networks.

Feedback must be received by **Monday 25 May 2020**. For further information please review the [Frequently Asked Questions](#) document or contact me via the details below.

Kind regards

[REDACTED]
Leisure Planning Project Officer
City of Joondalup

Tel: 08 9400 4090
Fax: 08 9300 1383
Email: [REDACTED]

Follow:



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MacDonald Park (South), Padbury – Proposed Sports Floodlighting Upgrade Frequently Asked Questions

What is the purpose of the community consultation?

To seek feedback from local residents, interested community members and park users about a proposed upgrade of sports floodlighting at MacDonald Park (south), Padbury.

Why is the City conducting community consultation on sports floodlighting at this time?

The City is sensitive to the fact that this is a difficult time for the community and the impact of COVID-19 could be felt for some time. The City also recognises that the community expects parks and facilities to be maintained to a high standard and would like to continue to plan for future upgrades so that these parks and facilities are available for use again as soon as circumstances allow.

The proposed upgrade to sports floodlighting at MacDonald Park (south), Padbury is being prepared as a joint funding proposal for the State Government's Community Sporting and Recreation Facilities Fund. To support this proposal, the City is required to seek feedback from the community.

Should the proposed upgrade be supported, works would not be scheduled to take place until 2021/22. Feedback is being sought now, as preparation of the funding proposal can take a number of months.

Where is MacDonald Park located?

MacDonald Park is located between MacDonald Avenue, Forrest Road, Giles Road and Marmion Avenue in Padbury. A map showing the location can be found on the site plan overleaf.

What works are being proposed as part of the upgrade?

The City is proposing to upgrade the sports floodlighting on the southern playing field at MacDonald Park. The proposed works include:

- Removing the four existing sports floodlighting poles;
- Installing four new poles up to 35 metres with sports floodlighting to accommodate training and games at night; and
- Installing two LED passive recreation lights on two of the four new poles at a lower level to accommodate general recreational use.

Additional works are also proposed, should funding permit:

- Removing the single existing sports floodlighting pole at the cricket nets; and
- Installing four new poles up to 15 metres with sports floodlighting to accommodate usage at night.

All sports floodlighting would be designed to meet the *Australian Standard for Football (All Codes) Amateur Competition (AS2560.2.3)* and the *Australian Standard for Control of Obtrusive Effects of Outdoor Lighting (AS4282)*. The cricket net floodlighting would be designed to meet the 2015 Cricket Australia Guidelines to allow for "Class III" night training (200 lux).

Why is the City proposing to upgrade the sports floodlighting at MacDonald Park (south)?

During the regular summer and winter sporting seasons, MacDonald Park is used by junior and senior sporting clubs for Australian Rules Football and cricket. The park is also heavily utilised by local residents for casual sport and recreation.

The southern playing field currently has older infrastructure consisting of five floodlighting poles and luminaires that do not meet the relevant Australian Standards and are not suitable for night time sports training and games.

Upgrading the sports floodlighting would enable clubs to train and play matches in a safe and more accessible manner once social distancing restrictions are eased. The inclusion of LED passive recreation lights would enable local community members to use the park more safely after dark.

When would the works take place?

If supported, the works would take place in 2021/22.

How would the proposed upgrade be funded?

The proposal has been listed in the City's Five-Year Capital Works Program and, if supported, will be included for consideration in the City's 2021/22 budget. The City would also be seeking a contribution from the State Government through the Community Sporting and Recreation Facilities Fund.

How would the proposed sports floodlighting be managed?

The proposed sports floodlighting would be managed for sporting clubs, schools, community groups and individuals in accordance with the City's existing park hire processes, as is the case during the regular summer and winter sporting seasons.

Note that all sports floodlighting would usually be switched off by 9.30pm. However, if there are special event bookings, the lighting may be required to be on later into the evening.

The LED passive recreation lights would automatically switch on in the morning at 5.30am and off at sunrise, and then switch on again in the evening at sunset and off at approximately 9.30pm.

How would the City manage the increased brightness levels of the sports floodlighting?

When designing sports floodlighting upgrades, the City's approach is to meet or exceed the Australian Standards with regard to minimising the impacts of obtrusive light. This includes consideration of design features, such as horizontal positioning and floodlighting types.

The new, taller poles would allow the luminaires to be aimed more directly onto the main playing areas, therefore reducing light spill onto nearby roads and residences. In circumstances where amenity issues are identified, increased design features would be employed to minimise potential adverse effects.

Similar sports floodlighting has been installed at Admiral Park, Heathridge; Heathridge Park, Heathridge; and Ocean Reef Park, Ocean Reef.

Who is being consulted on this proposal?

The City is directly consulting the following community stakeholders:

- Residents and ratepayers within a 200 metres radius of MacDonald Park
- Community Engagement Network members residing in Padbury and Hillarys

- Park user groups
- Padbury Residents Association Inc
- Whitford Community, Ratepayers and Recreation Association Inc.

In addition, signage has been installed at MacDonald Park and all information is available on the City's website. Anyone interested in the proposal can submit feedback via an Online Comment Form. Responses are limited to one per person, or one formal response per club/organisation.

How do I provide feedback on the proposal?

In keeping with social distancing requirements, feedback on the proposal can be provided through the Online Comment Form available via the Community Consultation section of the City's website at joondalup.wa.gov.au

If you are unable to access the Online Comment Form, or need assistance in providing feedback, please contact the City's Leisure Planning team on **9400 4090** or via email to info@joondalup.wa.gov.au

When is the community consultation period open?

The community consultation period is open **Monday 4 May 2020 to Monday 25 May 2020**.

What happens next?

The results of the community consultation will be collated and presented to Council seeking endorsement to progress to the next stage of the project.

If you would like to be informed via email when the outcomes of the consultation are presented to Council, please select the box on the Online Comment Form and ensure you provide your email address.

Who do I contact for more information?

Further information on the proposal can be found via the Community Consultation section of the City's website at joondalup.wa.gov.au, by contacting the City's Leisure Planning team on **9400 4090** or via email to info@joondalup.wa.gov.au

Site plan of MacDonald Park (south), Padbury



- Existing sports floodlights to be removed
- New sports floodlights to be installed
- New cricket net floodlights to be installed

APPENDIX 6 — Online Comment Form (page 1)



MacDonald Park (South), Padbury — Proposed Sports Floodlighting Upgrade

Online Comment Form

The City of Joondalup is seeking community feedback on a proposal to upgrade the sports floodlighting at MacDonald Park, Padbury.

It is recommended that you read the [Frequently Asked Questions](#) document prior to providing feedback. If you have any questions on the proposal, please contact the City's Leisure Planning team on **9400 4090** or via [email](#).

City of Joondalup | 90 Boas Avenue Joondalup WA 6027 | PO Box 21 Joondalup WA 6919
T: 9400 4000 F: 9300 1383 | joondalup.wa.gov.au | info@joondalup.wa.gov.au

NEXT



MacDonald Park (South), Padbury — Proposed Sports Floodlighting Upgrade

Online Comment Form

*** 1. Your contact details:**

Please note that for your feedback to be validated, your contact details must be provided. This information will be treated as confidential and will not be published in any document or report on the outcomes of the consultation.

Only one Online Comment Form per person will be accepted.

Name:

Address:

Suburb:

Postcode:

Phone:

2. Your age:

3. Are you (or is someone in your household) a member of, or affiliated with any of the following clubs or groups? (Can select multiple)

- Padbury Fit Club
- Padbury Residents Association
- Whitford Community, Ratepayers and Recreation Association Inc
- West Perth District Football Club
- Whitford Amateur Football Club
- Whitford Junior Football Club
- Whitfords and District Cricket Club
- I am not associated with any of the above clubs or groups

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T: 9400 4000 F: 9300 1383 | joondalup.wa.gov.au | info@joondalup.wa.gov.au

PREV

NEXT



MacDonald Park (South), Padbury — Proposed Sports Floodlighting Upgrade

Online Comment Form

4. Please indicate your level of support for the proposed upgrade of sports floodlighting at MacDonald Park (south), Padbury, as described in the [Frequently Asked Questions](#)?

Strongly oppose	Oppose	Neutral	Support	Strongly support
<input type="radio"/>				

5. Do you have any comments about the proposed sports floodlighting upgrade?

City of Joondalup | 90 Boas Avenue Joondalup WA 6027 | PO Box 21 Joondalup WA 6919

T: 9400 4000 F: 9300 1383 | joondalup.wa.gov.au | info@joondalup.wa.gov.au

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MacDonald Park (South), Padbury — Proposed Sports Floodlighting Upgrade

Online Comment Form

6. Request to be informed:

Community consultation assists Council in deliberating and then making decisions on certain matters. The analysis from this consultation will be provided to Council to assist them in their decision-making role first at a Briefing Session and then at a Council Meeting. Written questions and written statements can be submitted to Briefing Sessions and Council Meetings. Further information on this process is available on the City's [website](#).

I would like to be informed via email when this consultation will be presented at a Briefing Session and Council meeting.

Email address:

7. City of Joondalup Community Engagement Network:

The Community Engagement Network is a network of community members interested in being consulted and engaged on an ongoing basis about future strategic initiatives in the City of Joondalup. Contact details are kept strictly confidential and members can opt-out at any time. If you are interested in joining the City of Joondalup Community Engagement Network, subscribe on the City's [website](#) or select the box below.

I would like to join the City of Joondalup Community Engagement Network

Email address (if not entered above):

City of Joondalup | 90 Boas Avenue Joondalup WA 6027 | PO Box 21 Joondalup WA 6919

T: 9400 4000 F: 9300 1383 | joondalup.wa.gov.au | info@joondalup.wa.gov.au

PREV

NEXT

(page 5)



MacDonald Park (South), Padbury — Proposed Sports Floodlighting Upgrade

Online Comment Form

Thank you for taking the time to complete this Online Comment Form.

City of Joondalup | 90 Boas Avenue Joondalup WA 6027 | PO Box 21 Joondalup WA 6919
T: 9400 4000 F: 9300 1383 | joondalup.wa.gov.au | info@joondalup.wa.gov.au

PREV

SUBMIT FORM

APPENDIX 7 — Community Consultation webpage

[For Residents](#)

[For Business](#)

[For Visitors](#)

Home / Organisation and Council / Community Consultation / MacDonald Park (South), Padbury – Proposed Sports Floodlighting Upgrade

MacDonald Park (South), Padbury – Proposed Sports Floodlighting Upgrade

Categories: [Community Consultation](#)

Published on 04/05/2020

As the COVID-19 issue continues to evolve, the City of Joondalup recognises this is a difficult and uncertain time for many members of the community. The City's response to the many challenges presented by COVID-19 is guided by the Federal Government and Department of Health WA. At the same time, the City is also planning for the recovery phase and, where possible, will continue to deliver projects that create social and economic benefits.

With this in mind, the City is seeking community feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park, Padbury. Community consultation on this upgrade forms part of a joint funding proposal for the State Government's Community Sporting and Recreation Facilities Fund.

The proposed works include:

- Removing the four existing sports floodlighting poles
- Installing four new poles up to 35 metres with sports floodlighting to accommodate training and games at night
- Installing two LED passive recreation lights on two of the four new poles at a lower level to accommodate general recreational use.

Additional works are also proposed, should funding permit:

- Removing the single existing sports floodlighting pole at the cricket nets
- Installing four new poles up to 15 metres at the cricket nets with sports floodlighting to accommodate usage at night.

All sports floodlighting would be designed to meet the Australian Standard for Football (All Codes) Amateur Competition (AS2560.2.3) and the Australian Standard for Control of Obtrusive Effects of Outdoor Lighting (AS4282). The cricket net floodlighting would be designed to meet the 2015 Cricket Australia Guidelines to allow for "Class III" night training (200 lux).

To provide feedback on the proposal, please complete the Online Comment Form. For further information please review the Frequently Asked Questions or contact the City's Leisure Planning Project Officer.

[ONLINE COMMENT FORM](#)

Submissions accepted: Monday 4 May 2020 to Monday 25 May 2020

Documents and Downloads

[Frequently Asked Questions \(pdf 488 KB\)](#)

Leisure Planning Project Officer
9400 4090
info@joondalup.wa.gov.au

MacDonald Park

[More info >](#)

Related Online Services

- [Community Consultation on Planning Applications – Submission Form](#)
- [Join the Community Engagement Network](#)

108392

27 | 49



MacDonald Park (South), Padbury — Proposed Sports Floodlighting Upgrade

The City of Joondalup is seeking community feedback on a proposal to upgrade the sports floodlighting at MacDonald Park (south), Padbury.

The proposed locations are shown on the site plan. The exact locations may vary once the floodlighting plan is finalised.

To provide feedback, please visit the Community Consultation section of the City's website at joondalup.wa.gov.au

For further information, please contact the City's Leisure Planning team on **9400 4090** or email info@joondalup.wa.gov.au

Submissions accepted: **Monday 4 May 2020 to Monday 25 May 2020.**

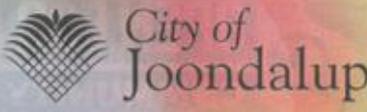


APPENDIX 9 — Map showing locations of signage erected at MacDonald Park



APPENDIX 10 — Joondalup Voice article (Joondalup Times, 14 May 2020, p. 13)

COMMUNITY NEWSPAPERS THURSDAY, MAY 14, 2020 • 13



joondalup voice

14 May 2020

Councillor's Column — John Raftis



Hillarys Hub takes shape
Work has commenced on the centrepiece of the Whitfords Nodes Health and Wellbeing Hub – a 21 metre exercise stairway on the northern dune. The stairway will give users an opportunity to undertake a vigorous exercise regime, running or walking up and down the incline.

As well as the stairway itself, new lookouts at the top of the dune will provide those at the summit with views of across the park and nearby coastline. Other components of the project include landscaping works, fitness areas, shelters, drink fountains, footpaths and a CCTV system.

The overall project is being delivered as part of the Federal Government's \$100 million Move It AUS – Community Sport Infrastructure grants program. The City also committed funding towards construction costs and received additional support from Lotterywest for stage one works.

BlackSpot funding for dangerous intersections
The City has received \$735,000 in Federal Government funding through the Black Spot program to upgrade the McWhae Road/Marmion Avenue intersection. Work will include upgraded pedestrian crossing facilities and footpaths, left turning lanes on Marmion Avenue and McWhae Road and modifications to the intersection island.

The City also received \$495,000 in funding for the junction at Cambria Street in Kallaroo.

Floodlight proposal for MacDonald Park
The City is seeking community feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park, Padbury.

The proposed works include:

- Removal of the four existing sports floodlighting poles;
- Installation of four new poles up to 35 metres with sports floodlighting to accommodate training and games at night; and
- Installation of two LED passive recreation lights to accommodate general recreational use.

Feedback can be provided online via the Community Consultation section of the City's website at joondalup.wa.gov.au until **Monday 25 May 2020**.

New footpath link
Work will soon commence on construction of a concrete footpath on Rockett Vale and Copperhead Avenue in Padbury.

The footpath will connect the existing public accessway, between Rockett Vale and Brizler Rise, to Gibson Avenue, which will provide residents with better connectivity to local schools and shopping centres.

Emerge Stronger – Support for local business
The City supports local businesses through a range of strategies, programs and initiatives which can be accessed through the Emerge Stronger Business Support section of the City's website at joondalup.wa.gov.au

The City is also encouraging local businesses to access Local Government contracts through the sector-wide procurement platform, VendorPanel Marketplace. Underwritten by the WA Local Government Association and free to use for members and suppliers, VendorPanel Marketplace enables Local Government buyers to link with local suppliers and manage local procurement processes.

Joondalup businesses interested in being listed on the VendorPanel should email business@joondalup.wa.gov.au (with the subject line "Joondalup Supplier") and outline the key products or services they offer.

CLICK and COLLECT

with City of Joondalup Libraries

The City's Click and Collect Library service is available to all members and ensures you can continue to borrow books, music CDs and DVDs during the temporary library closure.

Reserve any item in the catalogue, contact your local library with your reservation request and safely collect up to 15 items from your local branch. For further information call 9400 4751, email libraries@joondalup.wa.gov.au or visit joondalup.wa.gov.au



DIGITAL HELPLINE



HELPING YOU NAVIGATE ACCESS TO ONLINE SERVICES

Some residents will be new to using technology, searching the internet and doing things online like shopping or communicating with family. The City has established a team of people ready to help with your questions about how to get online.

If you need to talk to someone, contact the Digital Helpline between 9.00am – 5.00pm Monday to Friday by calling 9400 4180 or email libraries@joondalup.wa.gov.au



WASTE SERVICES 2020

The City is working closely with service providers to ensure waste collections continue in a safe and efficient manner.

Frequently Asked Questions concerning waste services during COVID-19 can be found at joondalup.wa.gov.au

New Commission – Inside-Out Billboard Project



A new bright and colourful artwork by Minal May has been installed on the façade of the Joondalup Library.

The works were created through the layering and weaving of wash tape – a paper-based adhesive tape deriving from Japan that is decorative, colourful and often includes detailed patterns. Through this process, the artist explores nature scenes through abstraction and pattern.

Angela Stewart's 'Prudenza', commissioned by the City of Joondalup in 2018, has been re-installed as part of the Inside-Out Billboard Project at the Joondalup Law Courts.

To learn more about the Inside-Out Billboard Project and to view all commissioned artworks visit joondalup.wa.gov.au

Image: 'Softening the Blenaries', 2020 by Minal May.

joondalup.wa.gov.au

J00



APPENDIX 11 — Joondalup Voice article (eNewsletter)



Joondalup Voice Online

Joondalup Voice Online

Dear \$\$FIRSTNAME\$\$,

15 May 2020

Call: 9400 4705

Councillor's Column - John Raftis



Hillarys Hub Takes Shape

Work has commenced on the centrepiece of the Whitfords Nodes Health and Wellbeing Hub – a 21 metre exercise stairway on the northern dune.

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(continued)

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Joondalup businesses interested in being listed on the VendorPanel should [email](#) (with the subject line "Joondalup Supplier") and outline the key products or services you offer.

[Read more online](#)

COVID-19 Safety Plan guidelines



Leisure Centres

Craigie Leisure Centre will reopen in a modified format from **Tuesday 26 May 2020**. Group classes will reopen with a limit of 20 people per class and a new time table will be released. Both indoor and outdoor pools will be available to a maximum of 20 people per pool. The remainder of the facility will be closed, including the gym, creche and cafe.

At this stage Duncraig Leisure Centre will remain closed pending announcements made in the next review of restrictions.

Libraries

On **Monday 18 May 2020** Joondalup Library will open to a maximum of 20 customers at a time for visits of up to 30 minutes. The Library will be open Monday to Friday 9.00am - 5.00pm.

There will be a sign in log which is necessary for library staff to contact visitors if needed. At this stage, remaining City Libraries, Duncraig, Whitford and Woodvale will remain closed until further notice. Click and Collect will be available for these libraries.

For further information about the updates current City closures and re-openings visit the City's [website](#).

[Read more online](#)

Click and Collect



Click and Collect with City of Joondalup Libraries

The City's Click and Collect Library service is available to all members and ensures you can continue to borrow books, music CDs and DVDs during the temporary library closure.

Reserve any item in the catalogue, contact your local library with your reservation request and safely collect up to 15 items from your local branch.

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[Read more online](#)

(continued)

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To learn more about the Inside-Out Billboard Project and to view all commissioned artworks visit the City's website.

Image: 'Softening the Binaries', 2020 by Minaxi May.

[Read more online](#)

Waste Services 2020



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[Read more online](#)

Emerge Stronger - Digital Helpline



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[Read more online](#)



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APPENDIX 12 — Facebook post (5 May 2020)

 **City of Joondalup** 5 May at 11:55 · 🌐

The City is seeking community feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park, Padbury. Have your say by (COB) Monday 25 May at <https://bit.ly/3b3IFji>



👍👎 21 13 comments 9 shares

👍 Like 💬 Comment ➦ Share

APPENDIX 13 — Twitter post (5 May 2020)

 **City of Joondalup** @City_Joondalup · May 5

The City is seeking community feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park, Padbury. Have your say by (COB) Monday 25 May at bit.ly/3b3IFji



APPENDIX 14 — Community newspaper article (online) (Joondalup Times, 5 May 2020)

perth **now**

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CITY/WEST HILLS/EAST NORTH SOUTH SOUTH COAST COMPETITIONS COMMUNITY NEWS



MacDonald Park in Padbury. Credit: www.joondalup.wa.gov.au

JOONDALUP Times

Feedback sought on sports floodlighting in Padbury

Tyler Brown | Joondalup Times
May 5, 2020 1:30PM

TOPICS **North**

THE City of Joondalup is seeking feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park in Padbury.

This feedback will form part of a joint funding proposal for the State Government's Community Sporting and Recreation Facilities Fund.

Works would include replacing the four existing sports floodlighting poles with new poles up to 35m high to accommodate training and games at night, with two LED passive recreation lights also installed on two of the poles at a lower level.

The lights would be designed to meet the Australian Standard for all codes of football, while also meeting standards for "obtrusive effects of outdoor lighting".

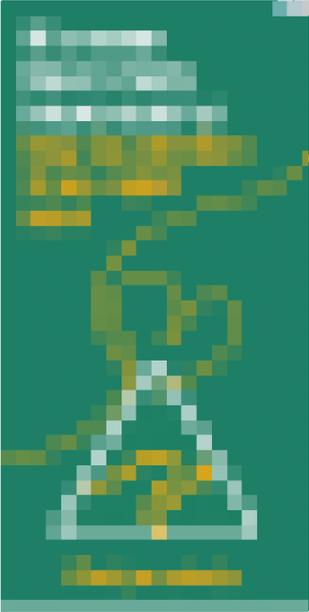
If funding permits, additional works will also include removing the single sports floodlighting pole at the cricket nets with four new poles up to 15m high, which would be designed to meet the 2015 Cricket Australia guidelines to allow for "Class III" night training.

Never miss a story from **Communitynews** [SIGN UP](#)

If supported, works could be undertaken in 2021-22.

Visit www.joondalup.wa.gov.au before May 25.

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DON'T MISS

Bee man
New brewery gives nod to past

Most impressive
All the Star Wars movies ranked

Well played
Perth cinema's clever COVID advice

APPENDIX 15 — Facebook post (Joondalup–Wanneroo Times/Weekender) (5 May 2020)

 **Joondalup-Wanneroo Times/Weekender** 5 May at 14:01 · 🌐

The City of Joondalup is seeking feedback on a proposal to upgrade the sports floodlighting on the southern playing field at MacDonald Park in Padbury.



PERTHNOW.COM.AU ⓘ

Feedback sought on sports lighting

The City of Joondalup is seeking feedback on a proposal to upgrade the...

 3 7 comments

 Like  Comment  Share

APPENDIX 16 — Twitter post (Joondalup–Wanneroo Times/Weekender) (5 May 2020)

Times **JoonWannTimes**  @JoonWannTimes · May 5

Times The @City_Joondalup is seeking feedback on a proposal to upgrade the #sports floodlighting on the southern playing field at MacDonald Park in #Padbury #perthnews



Feedback sought on sports lighting
The City of Joondalup is seeking feedback on a proposal to upgrade the sports floodlighting at one of its major parks.
perthnow.com.au

APPENDIX 17 — Response from West Perth Football Club

From: [REDACTED]
Sent: Monday, 18 May 2020 3:59 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: Community Consultation - MacDonald Park (South), Padbury, Proposed Sports Floodlighting Upgrade

[REDACTED]

With the increase in female participation for Australian Rules Football and the growing number of clubs that will add female teams, be they junior or senior, the need for oval space will only increase.

While at West Perth we do all we can to utilise HBF Arena as best we can, we too find the need to search for alternate ovals, which is why we have been using MacDonald & Forrest Reserves.

We constantly discuss our use of the ovals with the two main incumbents (Whitford Junior & Senior Football Clubs) and work very well in co-inhabiting.

Most of the use is condensed on to the main North Oval, when a excellent quality South Oval lays dormant every night as it isn't suitable given the current poor lighting once the sun goes down.

We are extremely supportive of the councils plan to upgrade the lighting and see this as a great way to ease some of the stress placed on facilities/grounds, furthermore it would enable us to possibly alter our training nights to fit better with our playing days to provide a more appropriate conditioning program for the female players, who often train too close to actual games as ground availability requires it.

The proposed placement of the lights should more than service the needs of our AFL club for training and add that the Lux level be taken into account, that it may be high enough to use for games as the lack of facilities that can cater for games is also very limited.

Thank you for giving us the opportunity to add comments and the council for its efforts in providing the upgrade.

Best regards,

[REDACTED]
[REDACTED]
West Perth Football Club
25 Kennedy Dve, JOONDALUP WA 6027
M: [REDACTED]
P: [REDACTED]
E: [REDACTED]

FALCONS WEST PERTH FOOTBALL CLUB **FALCONS**
WEST PERTH FOOTBALL CLUB
25 KENNEDY DRIVE, JOONDALUP WA 6027
T- (08) 9300 3611 E- reception@falconsfc.com.au W- www.westperthfc.com.au

SERO INSTITUTE **CLIPSAL** **Farmer Jack's** Supermarkets **schweigen** **OAKOVER** WINES **CMI** **BE** BOOMERANG **CARDINAL**

APPENDIX 18 — Response from Whitford Amateur Football Club

From: [REDACTED]
Sent: Friday, 22 May 2020 12:00 PM
To: [REDACTED]
Cc: [REDACTED]
Subject: MacDonald South Reserve - Lighting Community Consultation

[REDACTED]

In response to the proposed MacDonald South Reserve lighting.

Whitford Amateur Football Club Inc. is in favour of the proposal. Although we acknowledge any additional usage would be subject to council approval the improvements would allow;

1. Increased training availability providing a well lit facility to utilise the whole oval for evening and night training
2. Providing the opportunity for night fixtures to be played
3. Allowing more teams to train at one venue rather than multiple grounds
4. Facilitating the growth of sport participation, in particular women's senior football
5. increased senior and junior club interaction promoting the transition and continued participation from junior to senior AFL
6. Increased fundraising opportunities which will allow continued subsidized membership to improve and increase participation.

The south oval is currently under utilised due to the turf cricket pitch restrictions and inadequate lighting. Improved lighting will allow in part oval use to be maximized as a training venue and to allow increased access for winter sports such as the current primary users Whitford Amateur and Whitford Junior Football Clubs.

We would ask that if the works go ahead that light poles be positioned far enough away from the existing playing boundaries so that playing fields are not compromised or modified and that they (poles) are not positioned obstructing the view from the pavilion looking over the south oval.

Regards— [REDACTED]

[REDACTED]
Whitford Amateur Football Club

APPENDIX 19 — Response from Whitford Junior Cricket Club



25th May 2020

Dear Sir/Madam,

Whitfords Junior Cricket Club Inc (WJCC) definitely supports the installation of lights at the MacDonald Park on the southern oval. Numbers of players, especially younger players, increased last year at WJCC, and are forecast to increase again this year. As there are a fixed number of ovals available for cricket this placed a strain on facilities. The installation of lights on the southern oval will allow junior cricket to be played in the evening allowing ovals to be freed up for use by the older children.

Lighting the cricket nets also allows for flexibility in training times which again assists allocating facilities for teams at WJCC.

WJCC committee would like to thank the City of Joondalup for there ongoing facility upgrades and support given to our club.

Yours Sincerely *[Signature]*

[Redacted Signature]

[Redacted Name]

WJCC [Redacted Contact Info]

APPENDIX 20 — Response from Whitford Junior Football Club

From: [REDACTED]
Sent: Friday, 22 May 2020 1:11 PM
To: [REDACTED]
Subject: Whitford Junior FC Response - MacDonald Park (South) Lighting

Hi [REDACTED]

In response to the proposed MacDonald Park (South) lighting.

Whitford Junior Football Club is in favour of the proposal.

Whitford JFC has called MacDonald Park home since the clubs inception in the 1970's and has grown to nearly 900 members. The lighting proposal would allow;

1. Facilitate the growth of sport participation, in particular Junior Girls Footy
2. Allow for the greater utilisation of MacDonald Park (South) for night training
3. Provide the opportunity for night fixtures
4. Reduce our volunteer burden by having more amenity available at MacDonald Park instead of having to spread out across multiple ovals
5. Increased fundraising opportunities which allows Whitford JFC to keep Registration fees low which in turn promotes an increase in access and participation to AFL for our local community

We thank the City of Joondalup and WA State Government for progressing the lighting project and we look forward to the positive impact it will have on the primary winter users being Whitford Junior and Whitford Amateur Football Clubs.

Kind Regards

[REDACTED]

[REDACTED]

WHITFORD JUNIOR FOOTBALL CLUB

Ph: [REDACTED]

www.wjfc.org.au

You can now find us on 



APPENDIX 21 — Response from Whitfords & Districts Senior Cricket Club (page 1)

WHITFORDS & DISTRICTS SENIOR CRICKET CLUB



City of Joondalup
PO Box 21
Joondalup, WA 6919
15th May 2020

Dear Sirs,

SUBJECT: MACDONALD PARK (SOUTH), PADBURY – PROPOSED FLOODLIGHTING UPGRADE

On behalf of Whitfords District Senior Cricket Club (WDSCC) I wish to highlight some points with regards to the recent request for feedback relating to the proposal of installing floodlights on the Southern oval at MacDonald Park, which since we were last engaged on this potential project in 2017 our club has gone through a significant change, in particular with our committee and office bearers, having now a different viewpoint in relation to this subject. Our points for consideration and review are as follows –

- WDSCC view the proposal for floodlights to be installed a positive and important step forward for the local community and all clubs associated with the use of the grounds at MacDonald Park.
- We are of the understanding that the current proposal does not meet the criteria for lighting to allow small ball sports (eg cricket, hockey) to be played under lights in a safe manner. To address this the lighting levels for the actual light fittings would have to be upgraded within the proposal – details attached showing the required safe lighting levels that are required for small ball sports.
- WDSCC request the COJ to revise the current proposal to include lighting that would be sufficient and safe to use during the summer month tenancy, ie 6 months of the year, as otherwise the current proposal would see lights installed that could not be used for 50% of the year and not to the benefit of all users. This we do not believe is a positive step forward for the whole local community as would only allude to certain sports being able to use the floodlights and not the combined tenants throughout the whole 12 months of the year. We do not believe that this is COJ's wish either for the lights to be only useful for 50% of the year.
- From a cricket perspective the use of suitable floodlights at the Southern oval at MacDonald Park would be significant boost for both the junior and senior Whitfords clubs for both training and match purposes during the 6 month period that we use MacDonald Park for. We have already seen from the Northern oval that with the floodlights installed there that they are an underutilised asset at MacDonald Park as they are not suitable or safe to use for small ball sports, therefore having a ground laying idle and wasteful during the summer evenings. Having the ability to play floodlit matches, which the WASTCA playing association are fully in favour of, would be a huge fillip for the club and local community
- In discussions with the Whitfords Football Club, we have their backing and understanding for the proposed floodlights on the Southern Oval to be upgraded to accommodate the required levels of lighting for small ball sports.

Continued/

(page 2)

Attached with this letter we have included information with regards to the required safe levels of floodlighting for small ball sports. It is our request as previously mentioned that COJ revise current plans for the levels of lighting to be installed to accommodate the levels required for small ball sports. As one of the main tenants for sporting clubs at MacDonald Park using both ovals and clubrooms for 6 months of the year, WDSCC are fully behind the proposal to install new and suitable floodlights at the Southern oval of MacDonald Park. With this in mind we would like to have a meeting in person with COJ to further discuss the way forward in conjunction with all other users which we feel would be beneficial for all in order to go forward with suitable floodlighting. I look forward to hearing from you very soon with regards to this subject.

Yours faithfully

[Redacted]

[Redacted] WDSCC

Telephone: [Redacted]

APPENDIX 22 — Verbatim responses

QUESTION: “Do you have any comments about the proposed sports floodlighting upgrade?”

Note: Words that may identify respondents or contain offensive language have been removed and replaced with square brackets, ie [- - -]. Minor alterations have been made to spelling/grammar to enhance readability.

Verbatim responses — Do you have any comments about the proposed sports floodlighting upgrade? (N = 87)
<i>Great idea for the community and sports clubs.</i>
<i>The lights need to have a lux sufficient for small ball sports and not just enough for footy. Footy are the 'big voice' stakeholder, but cricket being able to use the south oval for twilight/daylight games will be a massive point of difference for the cricket club, as well as the entire City. Think of getting value for money from the turf wicket grant.</i>
<i>Strongly agree, as a member of [- - -] club and present player, I do train on the south oval [- - -] and [- - -] nights. The light is very poor at the moment and it is hard to do football drills.</i>
<i>Great idea. If possible, maybe add a few extra light poles around the walking pavement surrounding the ovals.</i>
<i>There's nothing wrong with the lighting that is already there. I've trained and played football on that ground for many years and my children have played night games there and there is nothing lacking with the current lighting setup. Put the money toward something more useful.</i>
<i>It would be amazing for the community to have decent lights to train under and play games under lights. It would be beneficial to all clubs and to the local residents. The cricket club would love to be able to train and play T20s under lights which would create a wonderful community atmosphere.</i>
<i>The upgrade of the existing floodlights would be welcomed by the senior cricket club to allow for training and games to occur in the evening. This would lead to greater social and economic benefits for the club.</i>
<i>Re: Lights at cricket nets: 1) Ensure lighting levels meet appropriate Australian Standards for sporting activity — this will be different to the level required for football. 2) Please ensure LED lights are used to minimise energy consumption, lower maintenance costs and provide rapid illumination.</i>
<i>Floodlighting supports more than just the sporting organisations that use the facilities. Being able to get out and exercise recently during COVID social distancing using floodlights at Forrest Park has demonstrated to me the value of having floodlighting in public spaces.</i>
<i>Wonderful idea.</i>
<i>You also need to look at the top oval, the lights are a joke.</i>
<i>New light tower must not impede view from balcony of pavilion. Football club currently has agreement limiting use of oval to minimise damage to turf block and this needs to be maintained. Light lux needs to be upgraded to small ball sports level so cricket games can be played at night/training at night</i>
<i>It allows for the local community to use the facilities safely after sunset. The sporting clubs down there have a massive representation, and this would open the ovals up for more options.</i>
<i>It's a great oval, but only half can be used at night for training and sport. This upgrade is a great thing and it may deter all the people walking their dogs on the oval at night.</i>
<i>Hi. I own the property at [- - -] — almost directly opposite where one of the new light poles will be erected. I read that you will look to minimise light spill, but I am still concerned that this will still impact my property. Do you have any drawings or designs that I could review to see what the impact will be?</i>
<i>The new floodlight that is closest to Fleur Frame Pavilion to be moved further east as to not block the view of the cricket pitch from the balcony.</i>

<p>Ask how the lights will be switched on and off? Will it use approved timer, or a RF-controlled device (RF will be 5G).</p>
<p>I would like to see the restrictions on all dogs eased. Residents should be able to utilise the pathways and get the benefit of the new lighting with their dogs on lead.</p>
<p>Absolutely required — particularly having lights at the nets. For early and late summer — light only lasts till 5:15, and facing quick bowling in bad light is dangerous.</p>
<p>With the floodlighting to be added to the ground should be good enough for all sporting codes. Current footy lights are not correct for cricket. Again, need to make sure that the lights for the cricket nets are the correct lighting for cricket.</p>
<p>Still looking for information on what is proposed as in location and lighting brightness level.</p>
<p>Great improvement to support the community in various leisure pursuits.</p>
<p>Current lighting is poor and improved lighting would enable better nightly use of the facilities and enable all of the clubs that use the facilities to train and play in safe conditions on a more regular basis.</p>
<p>Will be an amazing asset to the local community and the people who play sports at the venue. I have been playing with the cricket club since [- - -] and an upgrade of the lights is essential, allowing members to make it to training after work. It will also be a huge safety thing, giving locals the ability to exercise at night and for females to have confidence also. It may even stop crime and vandalism in the area.</p>
<p>A great value-add for the community.</p>
<p>No, I don't mind the floodlights being upgraded. What I would like to add, if possible, is to add light post along the footpaths around the park and playground. My family likes to do evening walks/jogging and there's no lighting in the park making it very eerie to walk unless the sports are on. Especially during winter where sunset is at 5:30 pm, we're not home from work until [- - -]. While the sports are on, the smaller children can play in the playground while waiting for the older brothers/sisters. Therefore, there is need for lighting in the playground too. Thank you.</p>
<p>Complete waste of money.</p>
<p>Ensure the floodlighting on the south oval is suitable for small ball sports — night cricket matches.</p>
<p>I have used this park since I was a kid. I am so appreciative to the Council for its existence and upkeep. A lighting upgrade to the south oval will mean far greater usage benefits to all users, particularly in the winter months for those, like myself, who struggle to attend training or time with the kids before it's too dark.</p>
<p>We need this upgrade.</p>
<p>A lighting upgrade will facilitate much better training and game possibilities for the cricket and footy clubs.</p>
<p>I'm thrilled to see these lighting upgrades for MacDonald Park — particularly the cricket training nets. A number of players work late, even in summer, and thus cannot make it down to training at a time where they can have any meaningful practice. The installation of these lights will allow more training time to more players, which may even improve our chances on the field. [multiple responses] I have already answered this survey, but wanted to make another comment: please ensure that the light tower near the Pavilion does not block the line of sight of the turf cricket pitch from the Pavilion balcony. This is a key viewing point, not only for family and friends, but also for scorers, who need a clear line of sight in order to keep track of the match.</p>
<p>We play bridge at the Fleur Freame hall. We have to park across the ground on Tuesday nights and it's pitch dark walking back to the car. Scary and unsafe. Thank you.</p>
<p>Facilities needed to attract stronger numbers to cricket training, especially earlier on in the season.</p>
<p>Great for community sport.</p>
<p>I am a great believer in communities having the facilities to engage in sport at every level and especially children and young adults. Any improvements that can be provided will benefit the whole City community.</p>

<i>You have killed bees in this park with absolutely no justification than to make it easier to install these 5G-controlled lights. Show me the research you are following that says this technology is safe!</i>
<i>It will make a huge difference to the use of the park for training, fitness and community activity in a positive way.</i>
<i>If the floodlights make the cricket nets useable for longer periods, it would greatly help the cricket club, as early in the season the daylight fades a lot earlier than later in the season. Daylight saving would also help...but let's not go there. Lighting of the oval would also allow fielding training to go longer.</i>
<i>Great initiative and safety for the suburb. Better security for the park. Good to see it completed, as I know Carine Open Space has just been done and it is about time our Council allows more night play.</i>
<i>I quite often stand at my front wall in the evening with a glass of red and watch the training or event in the park and get great enjoyment watching people do things they love. Take my grandkids to the park when they are staying at my house.</i>
<i>Will be a great addition to allow more time in evenings for sports to be played.</i> [multiple responses] <i>If installing new floodlights for the cricket oval playing area then must ensure the lux levels will meet the standards in order to play cricket under the lights. From what I read, the level is only to be for footy levels, which I gather is not of use for playing cricket. Both the south and north playing areas should be to cricket playing standards to encourage cricket at junior and senior levels to be played in evenings in a safe manner under lights. Please can you confirm that this can be done?</i>
<i>I feel that it will provide more time for sporting club to be able to extend outdoor leisure activities.</i>
<i>Upgrade of the lighting facilities on the MacDonald Park South ovals would provide a significant positive impact on the ability to provide afterhours training in a safe manner.</i>
<i>Great news. We have a [- - -] year old and plan on staying in Padbury. [- - -] will no doubt be part of a sports club, if not several, at this park so it is great to see you are improving the facilities.</i>
<i>Would like to see lighting upgraded with the underpass and park/natural area on the Hillarys side if upgrade goes ahead — this underpass is used frequently for undesirable activities (drug exchange and stolen merchandise).</i>
<i>Sufficient lighting over the cricket nets would allow the club to move training sessions later in the evening so that players can train after work. This will help the club increase training participation and increase interest in cricket. Additional lighting around the cricket nets will also make the car park safer at night where there has been suspicious activity from time to time. Particularly important for a car park that borders the new MacDonald Park playground, a primary school and early learning centre.</i>
<i>Make it suitable for all sports, not just football.</i>
<i>The lights will enable many more people to utilise the area after dark, for example people wanting to train after work.</i>
<i>This could be a 'I don't know what I don't know' situation — seems good in theory and would be great to upgrade so kids can train and play more games at night.</i>
<i>Definitely needed for the younger people to play in a safe environment. Will encourage them to join sports teams and exercise.</i>
<i>Is very much needed. I have played football and cricket nearly all my life at MacDonald Park and more light is needed on the south oval. The lights there now light a very small portion of the oval and is nowhere near enough light.</i>
<i>Would help my team quite a bit during the first few months of the season. Strongly for it.</i>
<i>Any initiative by the City of Joondalup to increase the fitness, health and wellbeing of its residents is a fantastic idea.</i>
<i>Great idea to facilitate night use of grounds for training and football games.</i>
<i>I would like for the lighting package to include additional lighting along the pathways around McDonald Park, particularly along the section of path nearest Marmion Avenue, by the underpass. This area is surrounded by trees and doesn't receive any light from other sources, and so is very dark and unsafe to use in the evenings.</i>

<i>Would be a fantastic opportunity for the local sports teams. The ability to play and train into the evening is something multiple clubs have been hoping for years. Would be extremely beneficial. Would also help the community who exercise at the park.</i>
<i>Would be great to be able to extend and expand training times.</i>
<i>This will greatly help both the football and cricket clubs.</i>
<i>It would be a massive benefit to the clubs that use the grounds and provide a safer environment for them.</i>
<i>By upgrading the floodlights, it presents an opportunity for sports to be carried now into the evening, allowing the community to support local sports, and for the area of Joondalup to set stronger community standards in regard to both junior and senior sports.</i>
<i>This will be a great addition to MacDonald Park for both the cricket and football clubs.</i>
<i>I have concerns regarding night games being held at this venue, mainly the additional noise from players and supporters. I am also concerned with expenditure of this nature in the current financial conditions being spent on non-essential sporting facility upgrades. I am sure that the administration of ratepayers' funds could be directed at more worthwhile projects. With a Financial Health Indicator of 61, I would have expected a more frugal approach to expenditure of this nature and concentrate efforts on delivering a better outcome for all ratepayers' money.</i>
<i>The more access to sports grounds for our community the better.</i>
<i>Would assist all sporting clubs with conducting training and matches at night. It is currently very difficult to train during summer on the upper oval due to poor lighting.</i>
<i>Great idea for the community.</i>
<i>Fantastic and long overdue. Lighting the area will enable use during evening periods.</i>
<i>Needed by sporting clubs as this is a very popular oval.</i>
<i>Will be great to extend the field options with additional lighting.</i>
<i>MacDonald Park by comparison to other facilities in the City already have a high standard of floodlights. I am supportive of any infrastructure upgrades but would like to note that other facilities have a far greater need, particularly Flinders Park, Hillarys.</i>
<i>It is hard enough to sleep nearby this reserve with the current lights. Also, many other projects are of higher need in the City, such as library upgrades and clubrooms in Craigie/Mullaloo areas.</i>
<i>What a brilliant idea! More games, more sport and more community spirit — which is even more necessary now given the health, financial and social impact of COVID-19.</i>
<i>I think money would be better spent on the old basketball courts next to the club at MacDonald Park. No one uses them and it seems a bit of a shame. Turning them into tennis courts would be a great idea. Is there somewhere I can put forward this idea?</i>
<i>New lights will be wonderful so we can get some Friday night time photography images of the games — well done!</i>
<i>Need to be on every day until 8 to allow it to be used after dark.</i>
<i>Safety standards should be adhered to. The upgrade also allows more options for use of the park. Configuration needs to consider that local residences aren't negatively impacted by lights shining toward homes. Good initiative.</i>
<i>Better lights mean we can use the park more and feel safe.</i>
<i>Given the COVID-19 situation, funding for any such project should be cancelled or curtailed, so that residents are not faced with Council rate increases, but rather get a relief by decreasing Council rates. Floodlighting in the northern field is sufficient for night time activities and, even if supposedly the lights on the southern field do not "meet Australian Standards", they seem to be sufficient for now.</i>
<i>I support the upgrade provided they do not negatively impact any nearby residences.</i>
<i>Great news for the cricket club! This will enable our training sessions to extend to a more appropriate time (without floodlights on the turf practice nets, batting can be quite dangerous when natural light reduces). Will enable earlier preseason training too! Mid-wicket floodlights will enable us to kick-off some T20 night games that will help engage the community more, and attract more players! Strongly agree with the idea proposed and can't wait for it to be finished!</i>

It is unnecessary expenditure of taxpayer and ratepayer funds. The City and the State Government should be reducing expenditure. This active reserve is already over-utilised according to the 2017 Active Reserve Review, as is nearby Forrest Park, and the City should be making an effort to reduce large ball sports on both. Night games should not be held in residential areas. The park already has very tall, intrusive floodlighting on the northern field. The proposed height increase of those on the southern field will only add to the intrusion for residents.

Fantastic and needed.

Definitely needed. Just need an upgrade on the run down and extremely old basketball/netball courts as well.

This would be a huge boost to all sporting clubs that use this space. I strongly support the upgrade.

Whilst not a Shire resident, I have utilised the complex for [- -] years. This upgrade is seriously overdue for all clubs using the space. In addition, it will provide greater personal security for the locals who use the space for recreation.

This will allow more night games for junior teams and night training. Great community atmosphere and fun for the kids. I imagine it could be utilised for other community events as well.

This is a great improvement and will support improved usage of the ground during winter when football training and night games take place.