CITY OF ARMADALE

AGENDA

OF TECHNICAL SERVICES COMMITTEE TO BE HELD IN THE COMMITTEE ROOM, ADMINISTRATION CENTRE, 7 ORCHARD AVENUE, ARMADALE ON MONDAY, 5 FEBRUARY 2024 AT 7.00 PM.

A meal will be served at 6:15 p.m.
PRESENT:
APOLOGIES
OBSERVERS:
IN ATTENDANCE:
PUBLIC:
"For details of Councillor Membership on this Committee, please refer to the City's website

- www.armadale.wa.gov.au/your council/councillors."

DISCLAIMER

The Disclaimer for protecting Councillors and staff from liability of information and advice given at Committee meetings to be read.

DECLARATION OF MEMBERS' INTERESTS

QUESTION TIME

Public Question Time is allocated for the asking of and responding to questions raised by members of the public.

Minimum time to be provided – 15 minutes (unless not required)
Policy and Management Practice EM 6 – Public Question Time has been adopted by Council to ensure the orderly conduct of Public Question time and a copy of this procedure can be found at http://www.armadale.wa.gov.au/PolicyManual

It is also available in the public gallery.

The public's cooperation in this regard will be appreciated.

DEPUTATION

CONFIRMATION OF MINUTES

RECOMMEND

Minutes of the Technical Services Committee Meeting held on 4 December 2023 be confirmed.

ITEMS REFERRED FROM INFORMATION BULLETIN

Outstanding Matters and Information Items

Various Items

Monthly Departmental Reports

Technical Services Works Programme

If any of the items listed above require clarification or a report for a decision of Council, this item to be raised for discussion at this juncture.

CONTENTS

TECHNICAL SERVICES COMMITTEE

5 FEBRUARY 2024

1.	ENG	GINEERING DESIGN AND DEVELOPMENT	
	1.1	PETITION - SURFACING CARPARK AREA AT ARMADALE GOLF COURSE	
2.	EN	VIRONMENTAL SERVICES	
	2.1	WALGA SUSTAINABLE ENERGY PROJECT - PHASE 2	8
3.	MIS	SCELLANEOUS	
	3.1	NOTIFICATIONS - BLACKSPOT ROADWORKS & FOOTPATH WORKS (REFERRAL ITEM)	<u></u> 9
4.	CO	UNCILLORS' ITEMS	
	NIL		14
5.	EXI	ECUTIVE DIRECTOR TECHNICAL SERVICES REPORT	
	NIL		14
SIIN	IMADA	V OF ATTACHMENTS	1.5

1.1 - PETITION - SURFACING CARPARK AREA AT ARMADALE GOLF COURSE

WARD : MINNAWARRA

FILE No. : M/373/23

DATE : 28 June 2023

REF : SA/DC

RESPONSIBLE : Executive Director MANAGER Technical Services

In Brief:

- A petition was presented 26 June 2023, the prayer of which reads a request to bituminise the car parking area of Armadale Golf Course.
- Recommend that Council support the consideration of a sealed carpark at the Armadale Golf Course as part of the draft 2024-25 Annual Budget deliberations.

Tabled Items

Petition – Attachment One.

Decision Type

☐ Legislative The decision relates to general local government legislative

functions such as adopting/changing local laws, town planning

schemes, rates exemptions, City policies and delegations etc.

☑ Executive The decision relates to the direction setting and oversight role of

Council.

☐ Quasi-judicial The decision directly affects a person's rights or interests and

requires Councillors at the time of making the decision to adhere to

the principles of natural justice.

Officer Interest Declaration

Nil

Strategic Implications

- 1.2 Improve Community Wellbeing
 - 1.2.2 Facilitate the alignment of service and program delivery to identify social priorities within the community.
- 1.3 Community Facilities meets Community needs.
 - 1.3.1 Ensure the equitable provision of Community Facilities throughout the City.
- 2.3 Functional, inclusive and sustainable infrastructure.
 - 2.3.3 Assets are to be effectively maintained in order to meet service levels throughout their life cycle.
- 3.2 Positive image and identity for the City.
 - 3.2.1 Prioritise the creation and promotion of a positive image and identity for the City in order to change the perception and narrative about Armadale and make it a location of choice for residents, business and visitors.

Legal Implications

Nil

Budget/Financial Implications

The costs associated with the design and construction of the Armadale Golf Course Carpark cannot be accommodated within the 2023-24 Budget. It is proposed that the estimated costs for the detailed design and construction be considered as part of the deliberations on the draft 2024-25 Annual Budget.

Consultation

- 1. Community Facilities
- 2. Community Planning

BACKGROUND

A Petition was presented to Council dated 26 June 2023, detailing 184 signatures, the prayer of which reads: -

We the undersigned request that the Council surfaces the car parking area of Armadale Golf Course with a suitable bituminous material in line with all the other Council owned sporting establishments. The existing car park surface is extremely sub-standard in comparison to the car parks of other Perth Metropolitan Council owned golf courses.

The standard of the current unsealed car parking area and crossover at the Armadale Golf Course is illustrated below.



The City installed traffic counters on Forrest Road for a seven day period in July 2023 to collect data on the number of vehicles entering and exiting the Armadale Golf Course. The data indicates an average of 43 vehicles per day.

City officers compared 9-hole specific golf courses in Perth at Embleton, Altone Park, Nedlands, Lake Claremont and Mosman Park Golf Courses. All of which have sealed carparks and roads to their clubhouses.

In comparison, it should be noted that the City has other facilities that also currently do not have sealed carparking areas:

- Fletcher Park
- Southern Districts Rifle Club
- Bedfordale Hall
- Settlers Common
- Armadale Tennis Club

However, patronage to these sites is estimated to be significantly lower than that of the Armadale Golf Course. Armadale Golf Course annual attendance numbers are greater than 17,500 which is based on the data collected from the rounds of golf purchased, not individual visits.

COMMENT

The City entered into a lease agreement with Golf Oracle Pty Ltd for the Armadale Golf Course on 1 July 2016, for a ten year term expiring on 30 June 2026. The lease agreement includes options to renew for two additional five year periods up to a maximum expiry of 30 June 2036.

For clarity, as part of the Operating Expenses in the lease agreement, the tenant is listed as being responsible for the costs involved in maintaining, repairing, refurbishing, renovating or replacing the Land or the Complex. However, as the carpark area sits outside of the leased area, as well as the works being the construction of a carpark area and not general maintenance of an existing asset, these works are not considered to fall within the tenants' maintenance responsibilities in the lease agreement, the responsibility residing with the City.

A proposed carpark concept plan has been prepared to accommodate 51 carparking bays and two access locations as per existing facilities. Please refer to the attachment – Concept Plan E23-86-01.

An approximate area of 1,800m² would be required to be constructed with appropriate basecourse and seal material to accommodate this proposed carpark concept at an estimated cost of \$250,000 depending on the type of treatment approved.

In line with the City's sustainability ambitions, the Design team is currently assessing the opportunity of integrating modified crumbed rubber materials into the design project. This approach aligns with environmental conservation goals by reusing materials that would otherwise end up as waste, thereby reducing the demand for new raw materials and minimising environmental impact. Again, in line with City expectation's, there will be no tree loss – this was confirmed by an onsite evaluation.

OPTIONS

Option 1

Do not proceed.

Option 2

Prepare a detailed design for a modified crumb rubber spray seal for the carpark and crossover construction at an estimated initial cost of \$185,000 to be considered as part of the draft 2024/25 Annual Budget deliberations. For reference, spray seal involves the application of a thin layer (7-10mm) of bitumen and aggregates onto an existing road surface, noting the existing hardstand once compacted, is suitable for such a treatment.

The anticipated future capital resurfacing would likely be \$75,000 approximately 7-years after the initial works.

Support the inclusion of Option 2 for consideration in the draft 2024/25 Annual Budget deliberations.

Option 3

Prepare a detailed design for a modified crumb rubber asphalt carpark and crossover construction at an estimated cost of \$250,000 to be considered in the draft 2024/25 Annual Budget deliberations. For reference, this method of construction is the composition of aggregates and an asphalt binder. The mixture is a hot-lay material and laid to achieve a specified thickness (in this case, 25-30mm) to create a smooth and durable road surface.

The anticipated future capital resurfacing would likely be \$100,000 approximately 15-years after the initial works.

Support the inclusion of Option 3 for consideration in the draft 2024/25 Annual Budget deliberations.

CONCLUSION

In consideration of the available options, it is recommended to proceed with Option 3. The decision to opt for a modified crumb rubber asphalt carpark construction, with an estimated cost of \$250,000, aligns with the pursuit of long-term value for money. The asphalt surface promises a prolonged service life of 15+ years, minimising the need for future capital resurfacing expenses until a later stage. This option not only ensures durability and longevity but also aligns with the cost-effectiveness sought in the draft 2024/25 Annual Budget. Therefore, Option 3 is deemed the most prudent choice for the carpark construction project.

RECOMMEND

That Council:

- 1. Note the Officer's comments and approve Option 3.
- 2. Inform the petition convener.

ATTACHMENTS

- 1. Petition Armadale Golf Course Carpark Surface Dave McEwan
- 2. Location Map Armadale Golf Course
- 3. Concept Plan E23-86-01

2.1 - WALGA SUSTAINABLE ENERGY PROJECT - PHASE 2

WARD : ALL

FILE No. : M/26/24

DATE : 23 January 2024

REF : NM

RESPONSIBLE : Executive Director MANAGER Technical Services

In Brief:

• A confidential report is presented at Attachment B-1 to this Agenda.

Strategic Implications

The subject of this report is related to the following objectives of the Strategic Community Plan 2020-2030:

- 2.1 Conservation and restoration of the natural environment
 - 2.1.1 Sustainability initiatives are supported and implemented throughout the City.
 - 2.1.4 Minimise corporate and community carbon footprints within the City of Armadale.
 - 2.1.8 Facilitate the creation of partnerships and support strategies for the maintenance and enrichment of the natural environment.

Legal Implications

Sections 5.36, 5.38 and 5.39 of Local Government Act 1995.

Council Policy/Local Law Implications

Assessment of Policy/Local Law indicates that the following is applicable:

• Council Policy ADM 19 – Procurement of Goods and Services.

Consultation

- Intra Directorate
- Inter Directorate

A Confidential Report is presented at Attachment B-1 to this Agenda.

ATTACHMENTS

3.1 - NOTIFICATIONS - BLACKSPOT ROADWORKS & FOOTPATH WORKS (REFERRAL ITEM)

At the Council meeting held on 16 October 2023, Cr John Keogh, referred the following matter to the Technical Services Committee.

That the matter of Blackspot Roadworks and Footpath notifications be referred to the Technical Services Committee.

Comment from Cr J. Keogh

Requesting a policy or process to be put in place that relevant Ward Councillors are notified of planned upcoming road and footpath works to be done in their respective Ward at least two months in advance.

I would also like to request a policy or process where Council is provided with a list of identified Black Spot Projects by City Officers. This list is to be provided biannually with data/evidence for which projects have received funding and which projects have been identified by the City that are yet to be placed on the Black Spot List.

This information will assist with Councillors being aware of road and footpath issues within their Ward and the wider community and have the ability to provide feedback or Community concerns in a timely manner.

Officer Comment

Main Roads WA (MRWA) invites all Councils to nominate Black Spot Project submissions for the State Black Spot (SBS) and Australian Government Black Spot (AGBS) Programs in Quarter 3 (around February) of each financial year. The primary aim of the program is to improve road safety across the Western Australian road network by assisting Councils in funding the projects.

AGBS Program funding comes from the Federal Government (Department of Infrastructure, Transport, Regional Development and Communications) and projects approved under this program are fully funded. The SBS Program funding comes from the State Government, projects approved under this program have a 2:1 State and Local Government funding contribution respectively. Both programs use assessment criteria including benefit cost ratio (BCR), risk score calculation, crash data and potential hazardous problem consideration.

Benefit cost ratio is a financial indicator used in the evaluation of the economic feasibility of a project. It measures the ratio of the benefits of a project relative to its costs. In the context of road safety projects, such as addressing black spots on Main Roads, BCR can be used to assess the effectiveness of these interventions.

For clarity, benefit 'value' is based on crash costs avoided through the installation of the proposed treatments.

Risk assessment plays a crucial role in identifying black spots and prioritising safety interventions. It involves evaluating various factors that contribute to the likelihood and severity of accidents at specific locations.

Crash data helps in identifying trends, specific locations, and recurring issues contributing to accidents.

Identifying hazardous problems involves pinpointing the underlying reasons for accidents. For example, if a certain intersection consistently experiences rear-end collisions due to poor visibility or inadequate signalling, these problems are identified as hazards.

MRWA releases updated crash data around April each year along with a prequalified list which consists of locations meeting the crash criteria. The City's Design team review this prequalified list and consider potential black spot solutions. The closing date for both State and Federal Black Spot Project submissions is generally around July each year.

In response to the referral, City Officers propose to have biannually recurring updates in the months of January and July each year for Black Spot funding – this will be provided as a memorandum from the Executive Director Technical Services.

For convenience, a summary of approved projects for the 2022/2023 SBS and AGBS Programs is provided overleaf. Blackspot Project requests were submitted for funding consideration under both SBS and AGBS Programs at the same time to ensure maximum benefit but were all approved and fully funded through the AGBS Program.

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11

Project Location	Proposed Treatments	Funding Arrangement	Current Status
Railway	Modify the intersection to a left-in-left-out arrangement and improve	\$229,900 fully funded	Construction completed in late
Avenue/Streich	pedestrian facilities.	under the AGBS	2023.
Avenue	• There have been a total of 37 reported crashes between 2016 and 2020,	Program	
intersection,	including 6 casualty crashes.		
Armadale	• The modification will improve traffic operation and safety at the intersection,		
	which is currently in a priority controlled full movement T-intersection configuration. The modification will also improve safety of pedestrian crossing		
	Railway Avenue.		
Ranford Road/Lake	Install pre-deflection on Ranford Road approaches to the roundabout	\$155,200 fully funded	Construction completed in late
Road/Remisko	and improve pedestrian facilities.	under the	2023.
Drive roundabout,	• There have been a total of 25 reported crashes between 2016 and 2020,	AGBS Program	
Forrestdale	including 3 casualty crashes.		
	• The modification will improve safety at the intersection by reducing approach		
	speed towards the roundabout on Ranford Road. The modification will also		
NT' 1 1	improve safety of pedestrian crossing the roundabout.	Ф1.42.200 С 11 С 1 1	
Nicholson	Install pre-deflection on Nicholson Road approaches to the roundabout	\$143,200 fully funded	Construction completed in late
Road/Wright Road	and improve pedestrian facilities.	under the	2023.
roundabout, Piara Waters/Harrisdale	• There have been a total of 18 reported crashes between 2016 and 2020, including 4 casualty crashes.	AGBS Program	
w aters/ Harrisdale	 The modification will improve safety at the intersection by reducing approach 		
	speed towards the roundabout on Nicholson Road. The modification will also		
	improve safety of pedestrian crossing the roundabout.		
Nicholson	Install a roundabout.	\$1,690,920 fully	The City has been granted the
Road/Rowley Road	• There have been a total of 37 reported crashes between 2016 and 2020,	funded under the	funds with a one-year extension
intersection,	including 7 casualty crashes.	AGBS Program	for the project due to
Forrestdale/Oakford	• The modification will improve traffic operation and safety at the intersection,		complexity of the design. It is
(Staged project over	which is currently a staggered intersection configuration.		anticipated construction to be
a two-year period)			in FY 2024/2025.
Total Cost		\$2,219,220	

In July 2023, the City submitted the following projects for the 2024/2025 SBS and AGBS Black Spot Programs.

Project	Proposed Treatments	Funding Arr	angement
Location		AGBS Program (100% funded)	SBS Program (2:1 State and LG funding arrangement)
Nicholson Road/Easthope Link/Broadway Boulevard roundabout, Piara Waters	 Install pre-deflection on Nicholson Road approach to the roundabout including skid resistant improvement, and improve pedestrian/cyclist facilities. There have been a total of 14 reported crashes between 2018 and 2022, including 1 casualty crash. The modification will improve safety at the intersection by reducing approach speed towards the roundabout on Nicholson Road. The modification will also improve safety of pedestrian/cyclist crossing the roundabout. 	\$430,709	\$433,666 Contributions: SBS (2/3): \$289,111 CoA (1/3): \$144,555
Wright Road/Columbia Parkway roundabout, Piara Waters	 Install pre-deflection on Wright Road west leg approach to the roundabout including skid resistant improvement, improve pedestrian facilities, and upgrade street lighting to AS1158 standards. There have been a total of 2 reported crashes between 2018 and 2022. The community raised safety concerns at this roundabout. The City's Street Lighting Audit also identified a need for an upgrade in this area. The modification will improve safety at the intersection by reducing approach speed towards the roundabout on Wright Road west leg and improving lighting provision. The modification will also improve safety of pedestrian crossing the roundabout. 	\$254,615	\$257,565 Contributions: SBS (2/3): \$171,710 CoA (1/3): \$85,855
Skeet Road/Keane Road roundabout, Harrisdale	 Install pre-deflection on Skeet Rd southwest leg approach to the roundabout, improve pedestrian/cyclist facilities, and upgrade street lighting to AS 1158 standards. The community raised safety concerns at this roundabout. The City's Street Lighting Audit also identified a need for an upgrade in this area. The modification will improve safety at the intersection by reducing approach speed towards the roundabout on Skeet Road southwest leg and improving lighting provision. The modification will also improve safety of pedestrian/cyclist crossing the roundabout. 	\$332,073	\$335,022 Contributions: SBS (2/3): \$223,348 CoA (1/3): \$111,674
	rogram does not cover the cost of undertaking a road safety inspection and therefore, there is a difference the AGBS Program and SBS Program columns.	\$1,017,397	\$1,026,253 Contributions: SBS (2/3): \$684,169 CoA (1/3): \$342,084

In October 2023, MRWA determined the draft 2024/2025 Black Spot Program. All three project submissions were supported by MRWA, with the Wright Road/Columbia Parkway roundabout project proposed under the AGBS Program, and the Nicholson Road/Easthope Link/Broadway Boulevard roundabout and Skeet Road/Keane Road roundabout projects proposed under the SBS Program. It is anticipated MRWA will announce the formal approval in the first half of 2024.

The list of monitoring sites by the Design team is provided as Attachment No.1. The team will review the list when MRWA releases updated crash data around April 2024. Should there be crash patterns identified for any sites, the team will further investigate for the future consideration of potential black spot projects.

The team will also continue to monitor customer requests to identify potential black spot projects.

The team will provide an update to Council once the list of black spot projects has been determined for the upcoming 2025/2026 Black Spot Program in July 2024.

To provide an update on every road project and portion of footpath construction in every Ward at least two months in advance, would take Officer time away from other duties in an already resource constrained environment.

The City's Capital Works programme forms part of the Annual Budget each year.

Suggested Recommendations

That Council note the Officers comments on the matter and the proposal to update Councillors in January and July on Black Spot funding and projects.

RECOMMEND

That Council:

1. To be considered.

ATTACHMENTS

1. List of Black Spot monitoring sites

COUNCILLORS' ITEMS

This refers to any brief updates from Councillors from their attendance at working group or advisory group meetings on which they represent Council.

Nil

EXECUTIVE DIRECTOR TECHNICAL SERVICES REPORT

Nil

MEETING DECLARED CLOSED AT _____

TECHNICAL SERVICES COMMITTEE SUMMARY OF ATTACHMENTS 5 FEBRUARY 2024				
ATT NO.	SUBJECT	PAGE		
1.1 PETITION - SURFACING CARPARK AREA AT ARMADALE GOLF COURSE				
1.1.1	Petition - Armadale Golf Course Carpark Surface - Dave McEwan	16		
1.1.2	Location Map - Armadale Golf Course	22		
1.1.3	Concept Plan - E23-86-01 23			
3.1 NOTIFICATIONS - BLACKSPOT ROADWORKS & FOOTPATH WORKS (REFERRAL ITEM)				
3.1.1	List of Black Spot monitoring sites	25		

To:

The Council

Organisation:

City of Armadale

Address:

7 Orchard Avenue, Armadale

Western Australia 6112

This petition is submitted on behalf of the listed signatories by:

Dave McEwan

Contact address:

123 Forrest Road, armadale, WABIIZ

Phone No. 0426 134 615 Email: dave-meewan@ Live .co.uk (office use only-to remain confidential)

(All correspondence will be addressed to the person submitting this petition)

We the undersigned respectfully request that the Council:

Surfaces the car parking area of Armadale Golf Course with a suitable bituminous material in line with all the other Council owned sporting establishments. The existing car park surface is extremely sub-standard in comparison to the car parks of other Perth Metropolitan Council owned golf courses.

Full Name	Address (Number, Street, Suburb)	Signature	Date
David W. Mc Ewan	123 Forrest Road, armadale 6112	DM Gwan	05.05.23
DONNED STEWART	52 PATERSON ROAS. MT. NASURAGAZ	Kyan	05-05-23
MARGARET RANDELL	31 Gascagne Dr Gornells.	In Rangell	575/23
ROWALD BLAKEY	6/31 WILLIAM ST. BRMADALE	Por Rangell	5(5)2
JOHN KINSEY	22 ASTLEY ST GOSWELLS	I Kristy	5/8/8
MENEN STANDING	43 KINGSTON /L INFRINTA	Melgany	5/5/23
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Brian Stanley	5 Aad CHSeville Crove	1.00	515 23
Lyn Stanley	The second was a second with the second seco	Algorita A	5/5/2
BRADIE GORRING	11 CHISHOLM CIR SEVILLE GROVE		5/5/23
	312 STRECH ON	Minus	5/5/23
ROB SHEWAN	18 CREST COURT THURNTS		5.5.23
JOE TRENKA	1) THOON PL CAMILLE		5-5-2
WEN MGINNIS	54 HILTON MADDINGTON	2970.	5-5-2
Josh Hugher	24 Basraberry way byford		5-5-23
DC DAVSOR	6 partingon way soveren eve		5.5.2
en.	28 Paletind way SIRIN	1200	5 (05)
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12 ICKMP	GROSMERCE V GOSMERCE		6,5.23
VEIL DEDMAN	4 SPARGO ST MYAREE 6154	10 01	7-5-23
ude Fagatte	715 lianney cros Ruben yrous	the sand	
NE WICKAMS	2, 21 DISNEY RD PALMELIA	Red Jony	7-5-2
RAYEMMOGE	42° ELVIRA ST PALPOPRA	Rec	7.5.2
ANDER TOVEY	152 YALL RD THORNHE	16 Tony	1-5.2
JAAN BENSON	42B FLUIRA ST PALMYRA	Benot	7.5.2
RAY LAWLER	4 TRAVERS OF SPEARWOOD	(RLL	7.5.23
eela Nair	33 morton wap avak		フ・ン・2
Ravi Pragush	12 Cranbrosk Pass c/the	Pens	7.5.23

To: Organisation: The Council

Address:

City of Armadale 7 Orchard Avenue, Armadale

Western Australia 6112

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Full Name	Address (Number, Street, Suburb)	Signature	Date
AMAN CLARK	67 DISCOVERY DEIJE	-25	9.5.22
JIM COCK	14 VIGNETA PLACE LEINSTE	My The Cook	9. 5.23
Ton Daylor	30 WATSON ST COSAS	TOOL	4.52
BRIAN HAWKER	6 Coolabah DV Mt Nasul	a The	9.5.23
Jim BROWNE	24 Secolory OT- CHANTEN ON		9/5/23
Keter Komich	76 Schruth St. N. Kelmscol		9/5/23
KEUIN DAVET	154 WELLARY ANT LAYNS	May	4/5/23
GERT NICKEBERY	47 CARRICK RD WA 6112	Sty	95-23
Ton Gaela	12 EDWARD SI		9.5.23
NEIL JONES	46 TALBUT RD SUANVIEW	2	9.5.23
POTER FORBUGON	24 WATTLE DALE RD HAYOUS	1 ffm	10-5-23
Kon RIMIR	37 Kelly Chos Lynwood		10/5/23
TERRY M-LAUCHER		2-11	915/25
LEN HARDINGHAM	77 GELLAKED ST, CANNOTON	de Hordin 1-	9523
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Jestin Wakeling	14 Compail Ent, Hilbert	myhils	9/5/23.
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James Sharp	9 Consulate Court Thornbie	Aller	09/05/23
Bear Von de Sardi	B Furner Streat Thornite	2/	09/5/28
Blaze West	28 Malcolm Stspearwood	BW	09/5/23
RAY BANKS	97 GRORGINAST HILBERT	Africo	11/5/23
BRIDI COMMOR	39 DNYX ROAD MTRICHON		11/5/2023
allus Toustell	11 Cowner Ce Crasue		11/5/23
CARIS PRISTEAD	11 OSPREY WAY THORNEIC	Geld	12/5/23
KEITH CHAPMAN	141A Lockhard St Como	lle.	12/5/23
SAM HUME	18/10 CHEMINDINE BLVD TRE 10 Akong But madding	EBY Defin	12/5/23
Cop Bradler	10 Akma Gut maddin	Ben	17/4/7
CHRIS HUNT	7. JANDA COURT ARMADAGE	Court	12/5/2/3
PHIL CHADD	21 LOGPINE CRES CAMINO	and and	12/3/23
A. PINTO	32 TEAK WY	Spp	12/5/23
DENIS TOOD	310 CAMPBELL KD CHUKE	PI	12/5/23
DTHOMAS	21 THO GROVE DRMADALB		13/6/23
V WOOD	6A FOURTH AVE BASSENDEA	4 LBW	13-5-23
DAUID GUITE	4/37 KUZABRINST MANTURAN	Tour offer	13/5/23
EVENUAL SAMUELS	6/37 KUZABRIN ST MANJURAH BIJURI ST, ARMADALE	Eylas	13,15 23.
DIEK Genobies	33 Kny Rd. BANJOP	Mount les	18/5/23

18

To:

The Council

Organisation:

City of Armadale

Address:

7 Orchard Avenue, Armadale

Western Australia 6112



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Surfaces the car parking area of Armadale Golf Course with a suitable bituminous material in line with all the other Council owned sporting establishments. The existing car park surface is extremely sub-standard in comparison to the car parks of other Perth Metropolitan Council owned golf courses.

Full Name	Address (Number, Street, Suburb)	Signature	Date
LOS SHEAM	61- DECRY AND MY NATURA	1.6	13-5-23
ROB SHEWN	150 0 / (1)	1	13-5-23
KAY ETTRIOGE	42B ELVIRA ET PALMYRA	R_S	14.5.23
Daniel Thomas	27 Spinnaker Heights	205	4.5.23
JASON WOOD	255 adelaide terrace,	ATTEN	14/5/23
MARTY THOMAS.	54 BREAKSEA DRIVE NOOCH	MorovAS	14/5/23
GHYLIAN SERRET	UNIT 16-14 BOYD CRES HAMILTON-H	W BREVA	14/5/23
GARY MCKAY	9 MAKALIKA WAY STEAKWOOD	Charles	04383669
	9 MAKALIKA WAY STEAKWOOD	glostin	14/5/23
Cameron Cassidy	7 AUGUSTUS CRT AUBINGLOVE	0	14/4/23
Cameron Cassidy	17 MAYHEW CRSS, ATWELL	d	14/5/23
Isaac Guly	17 MAYHEW CKS, ATWELL	194	18-8-23
Kannia Peneria	5 COBHAM WY CAMILLO	Kinkerina	14/5-23
BRIAN PACK	16 ORNATA ST BY FORD	-	14/5/23
CLAUDE IANNELLO	5 INN CLOSE BIBRA LAKE	Eggannello	155.23
BETRIE WILLIAMS		On Phillis	15/5/22
LORRAINE TAYLOR	4 LAWRENCE ST. GOSNELLS	Dayle	18/5/23
ANTHONY SENGOR	1 ELSTON CRI BYPERD	ARBONIA	15/5/123
REG GERALD	3 d'unea Purce BELMONT	Regerard.	18/5(23.
GAVIN TAYLOR	4 LAWRENCE ST GOSNELLS	Dark	15/5/23
JOHN MCALINDON	20 SACKLER LINK	Joyler Wall	15/5/23
David Lucycu	19 HEATHER RY ROLEY STONE .	Though	15/5/23
Laurie Condom	47 Coniston way Fondale	Roden	15/5/23
D, BARR	16 CASELL A CC, WANDI	P.BA	16/5/23
GOODE GARL	18 WALCHA WAY		195/23
Doub Ronch	12/128 DIBRA OR BING LOKE	he that	16/5/23
DOVID PULTS	27/7 FREMINITIE RO GOENELLS	Jacks,	16/5/23
BOB MEARTHUR	22 assesting St polmscott	Remarken	14/03/23
ROD GARVIS	10 GILCON 126 ROLLYSON		16/5/23
Lower Heguisa	ey Southeren Of THORNE	11	16/5/23
Last onell	IL PEMBROOK LAN	1,00	16-52
FLONA PENMAN	13 STEFANELLI CL, WANDI	non Penn	16-5-23
GAYE KNBERSBY	3 PATELA WOR. Aubin Grove	6	16.5.23
CIRIS POMOR	5 IDADIR CLASULT 2VEDRO	P/_	16.5.23
3401LA PE6>=N	18 FORDLICE PROM HARROAL	8 Ea	16 5 -23
- Gillian Pitt	Lor 25 casella Pl. Wardi	//07.	6.5.23
	O CUSCUM FO VUMMONT		10.0

To:

The Council

Organisation:

City of Armadale

Address:

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Western Australia 6112

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Scal the carpala

Surfaces the car parking area of Armadale Golf Course with a suitable bituminous material in line with all the other Council owned sporting establishments. The existing car park surface is extremely sub-standard in comparison to the car parks of other Perth Metropolitan Council owned golf courses.

Full Name	Address (Number, Street, Suburb)	Signature	Date
JUSY LEEKS	8 THE FAIRWAY JANDAKOT WA	Sheeds	16/5/23
Romisal	167 CHAMPION DRIVE, CAMINO	(Ny	16/5/23
Ken Kenchagton	18 CRAIGHE PL 5. GROVE	J JIBK	, *
DENVIS CORER.	15/5 MAKEH RD MT RICHON		18/5/23
PAUL FIRET	AGRIFFITH WAY THORNUR	Burg	19-5-2
Sue Thomson	8 papar Mans Parine	D har	19-52
REICHY WICKILS	30/41 GEOGRAPHE WY TAKE	2 874~	1905.
PhilScott.	31 GAMONINGT C/VALL 83A CLOISTED AVE MANNING	1491	19-52
HOYD DUNGEY	83A CLOISTED AND MANNING	Dungly	19.5.2
RUB SHEWAN	18 CREST CIART, THORNATE	168	19.5.23
CHRIS BANTING	10 WR CT THORNUR	CARRELLO	19 5.23
FRANK MOLONBY	10/4 PAGE RD KELMSOOT	11100	19 1/23
Bill Hvano	86 HOLE STEAD ROAL GOVER	1 11	19/23
WILLIAM DAVIS	351 Action AV KONDALE	Mary Contraction of the Contract	19/5/23
COOY MULLINAY	37 LUCS IP CANNINGVALE	as	19/5/23
DAVID PAPATTONI	49 LEATHERWOOD HUNTING DALE	#25	19/5/23
Say 6th.	CORBRIDGE AVE WELLARD	#-	2015/2
LIKE TOGNOUNI	CORBRIDGE AVE WHURRD	dell	20/5/2
PAUL TOGOUNI		at -	20/5/23
TRISH HOLDEN	Colahan Ot Ferndale	Pulona	
TRISH HOLDER	Colahon of Ferndale SPARGO ST MYARCE	10eoch	21/5/23
DAVE WILLIAMS	DISNEY RD PARMELIA	1) RAGO	2/15/23
RAY ETRIPLIE	ELVERA ST	RAL	21,5.2
JFOWLES	BUCKINGHAM RD	1 Vin	11 13
6-GLEESON	18 Buckinghen Rd		22/5/23
H. Rath	17 Aurelian ST PalyyRA	A SIM	CR1512
N. PRIGERY	4 CONTA STRACT Janasma		25/5/23
7. Reyoh	I clara land thombe	Str.	24.15/2
A. NO 7TO	4 JASMINE LOOP WAGIES	Much	24/5-123
R. Nathan	30, NORTH FIELD CRE CANN WHILE	L Duch	21/5/23
S PEPPER	25 FRAMPTON CRES CANNING VAL	2811	23/5/23
DAVE GARLAND	26 MILLEN ST MT NASURA	CHAIL .	25/5/23
John Murrell	67 Canning Fulls Rd	atoria	25/1/18
PHI CLAMISON	71 Chanere by Chance		X13/23
nichael Seball	5 Lyan Rol Ather	TAKE	25/5/23
V Kur	10 A Pirelle Parkoray Alate		25/3 ks

Note: The request must appear on every page of the petition

Page 4 / 6

Total DIBINE

To: Organisation: The Council

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Full Name	Address (Number, Street, Suburb)	Signature	Date
CODEINOS MONES	GWATURLOW CR LUSMONIN		v6/5/23
PAUL BAKER	12 BORNEY ESP CUP LAKE	Modera	26/5/22
nike Home	7 SANTARA COVET ARMADALE	- Judol loe	26/5/13
TODO WHODELL	129 MALARKEY RD	tee	27/5/23
R. ETZRAFFEC	420 ELVIRY ST	150	28 15 23
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R TOME WSOV	15/19 BUNGUSH DEV BIBRA	Mar	30.5.23
TONT BOOMER	22 CAGGIN CLT MUDINA	200	29-5-23
JOHN SMITH	17 TROOP TC CAMPEN	138	30,5-
Deelm Borne	33 Clover Sgrove Giranheen	MAT	1 6/23
GEORGE WILLIAMS	orvine cot c/Jan	Spec	1/6/23
MICHAEL GARROOD	27 WOBURN WAY, KELMSCOTT 6111		V.6-23
KAIE PROVES	16 MSMAN CO THORNLIE		2/6/2>
GRAPM'SCOTT	49 SUNIPER WAY FORESTEIBLD		2/6/23
DITIC MEMICIAN	18 Sman PRILL Lacistans		2/6/23
Synon Enmeson	16 Ach. Are Kendale	200	2/6/23
Polly Hanara	18 Bavich Road	pr///	3/6/23
Crag Dever	23 Brandean Creat Compre	6 - 15 m	3Jun231
John Charsley	67A McQuald St, Como	- DOY	04/06/23
JIL WALLEY -	41 THE LOKES BLV JANDARO		0412547107
Aur Wheen	41, THE LAKES BUD, JANDAKON	1) Walle	0412684644
MASON SUND	116 24 pon DND ATWELL	7301	0405245520
	- FREINTON ST DAYSHATOR		0438607818
\$ 2500	16 GERANOM K C. VALL		045089223
F. NOVIK & VIK NOVIK	6 SHENSTONE RD South River	Amnerak "	0428915293
L. Snih	Sob Tourceste a horalie	L Swift	9/6/23
DAVIL TOMKINS	49 BARRINGTON AVE C/LAKE		2/6/25
GARRI BOWE	28/14 CMB46 GRE, A DONE 6/12	Dene	9/6/23
maxx Fremine	42 willawnead way GIII		9/6/2
Mitchel Fleming	42 WILLOW mead way 6111		9/6/25
RETCRIPGO		K	11.4.23
	21 Aucesta had		11/6/23
ROMYNIE BROWN	34 BOTTLEBRUSH DRIVE, THORPLIE 6108		11/6/23
DAVE BROWN			11/6/23
SHANE STOCKWELL	2 IRMA CLOSE, HUNTINGDALE 6110		11/6/23
1 ED COUMAN	> QUINNAVE BENTON	m !	12/6/23

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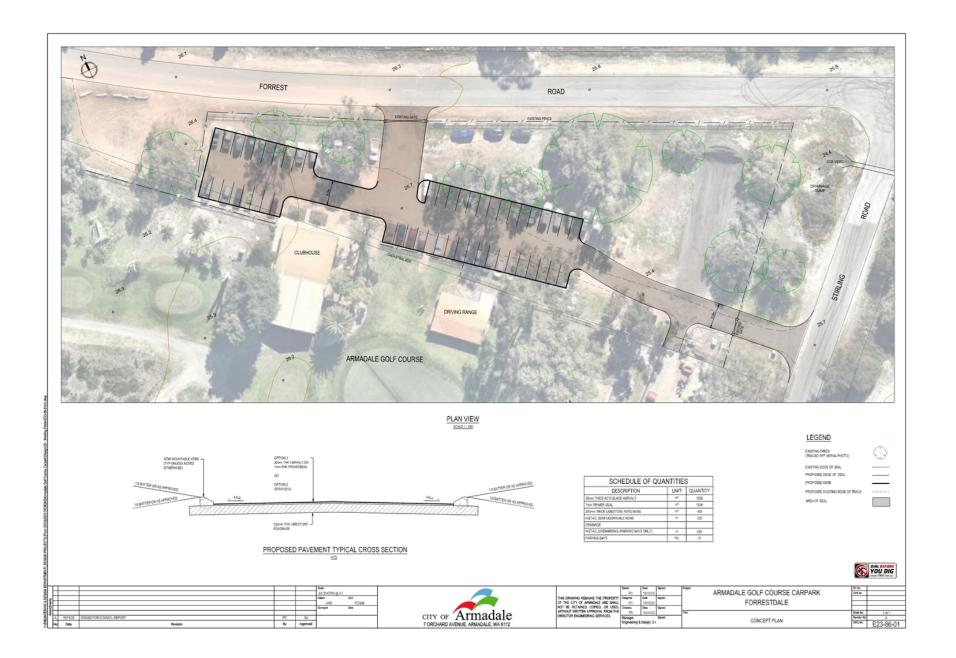
Full Name	Address (Number, Street, Suburb)	Signature ,	Date
PAUL MUNCH	13 KARRI WAY THORNELLE	AU W	12/6/23
PHIL COOKSES VRAK	683 HATERSINE PLTT. WILLOW	Marle 12	12/6/23
BRUCE MEDOWELL		-tuy	10
MICHAEL EDWARDS	26 HENRIETTA AVE MT. NASURA	Ollegund	12/6/23
TRISTAN SANDFORD	II C SUSAN ST MAYLANDS 6051		14/6/23.
KEY SUMBPLAND.		19sa	14/6-23
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Armadale Golf Course Carpark FORRESTDALE Location Plan







Design Team - List of black spot monitoring sites

INTERSECTION_RANMINTERSECTION_ING INTERSECTION_INAME			TOTAL_CRASH_COUNT	CASUALTY_CRASH_COUNT	TOTAL_CRASH_COST	CRITERIA	State/Local	
1	036171	NICHOLSON RD & WARTON RD	95	8	4824013	>= 5 total crashes	L/L	Currently a dual lane roundabout. Shared boundary with Gosnells/Cockburn/Canning. Cockburn is currently investigating for traffic signals.
2	137011	TONKIN HWY & RANFORD RD	95	14	3811726	>= 10 total crashes	S/L	MRWA future plans for grade separation by 2026
3	178523	RANFORD RD & SOUTHERN RIVER RD & BALANNUP RD	82	12	4766138	>= S total crashes	L/L	Previous upgrade/improxement - Balannup Rd (by Armadale in 2019), Southern River Rd (by Gesnells in 2018). Future 3-lane roundatiout (OPLH Ranford Road Reservation Study (2016)).
4	043989	RANFORD RD & WARTON RD	79	14	3155341	>= 5 total crashes	L/L	Future 6-lane plus bus priority lane on Ranford Rd, double LT & RT from Warton Rd onto Ranford Rd (S) (DPLH Ranfrod Road Reservation Study (2016)).
5	147793	TONKIN HWY & FORREST RD (EAST)	57	21	2564199	>= 10 total crashes	S/L	Recently upgraded to traffic signals in August 2022 MRWA future plans for grade separation by 2026.
6	138649	TONKIN HWY & ROWLEY RD	56	6	2093235	>= 10 total crashes	S/L	MRWA future plans for grade separation by 2026
7	070820	WARTON RD & WARTON RD & JANDAKOT RD & MASON RD	55	10	2548177	>= 5 total crashes	L/L	Cockburn is currently investigating for traffic signals. They have approved black spot projects in 2017/18 and 2022/23 - additional LT lane on Jandakot Rd and pre-deflection on Warton Rd (not proceeded).
8	141661	TONKIN HWY & CHAMPION DR	50	11	2628057	>= 10 total crashes	S/L	MRWA future plans for grade separation by 2026
9	036346	ARMADALE RD & EIGHTH RD	45	11	2030888	>= 10 total crashes	S/L	MRWA future plans for upgrade to traffic signals 2025/26 Armadale Rd (west of Eighth Rd to west of Seville Dr) speed reduction to 70km/h from 80km/h (Jan 2024).
10	081408	RAILWAY AV & STREICH AV RAIL XING	38	5	1615618	>= 5 total crashes	L/L	Armadale 2022/23 black spot project (completed late 2023) - ULO treatment, extend LT pocket length and improve pedestrian facilities.
11	036922	RANFORD RD & WRIGHT RD & BRISTLE AV	36	9	1300355	>= 5 total crashes	L/L	Future 6-lane plus LT & RT pockets on Ranford Rd (DPLH Ranfrod Road Reservation Study (2016)).
12	036279	RANFORD RD & LAKE RD & REMISKO DR	33	2	1370790	>= 5 total crashes	L/L	Armadale 2022/23 black spot project (completed late 2023) - Install pre-deflection on Banford Rd approach and improve pedestrian facilities.
13	188271	ARMADALE RD & RAILWAY AV & ABBEY RD	26	2	1302809	>= 10 total crashes	S/L	MRWA is currently undertaking a study to improve intersection safety involving State road:
14	036814	ARMADALE RD & SEVILLE DR	25	5	1647160	>= 10 total crashes	S/L	In the Metro region. There is currenlty no further updates. Armadale 2023/22 black spot project (completed) - additional pedestrian crossing on Armadale Rd east leg. MRWA is currently undertaking a study to improve intersection safety involving State road: in the Metro region. There is currenlty no further updates.
15	036178	NICHOLSON RD - LG BDRY & ROWLEY RD WEST	24	3	1192219	>= 5 total crashes	L/L	Armadale 2022/23 approved black spot project - Roundabout treatment Shared boundary with SJ (granted one-year extension for complex design, construction in FY 2024/25.
16	036386	LAKE RD & CHAMPION DR	24	2	931770	>= 5 total crashes	L/L	Annadale 2020/21 black spot project (completed) - pre-deflection on Champion Dr NW leg.
17	036541	ARMADALE RD & ORCHARD AV	23	4	967293	>= 10 total crashes	S/L	S&L improvements. Armadale future plans for Armadiae Strategic Metropolitan Activity Centre Streuture Plan (2018) - Commerce Ave connects with Streich Av? MRWA is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently no further updates.
18	036784	ARMADALE RD & TAIT ST	21	5	1251184	>= 10 total crashes	S/L	MRWA is currently undertaking a study to improve intersection safety involving State road: in the Metro region. There is currently no further updates. Armadale Rd (west of Gribble Rd to east of Tait St) speed reduction to 70km/h from 80km/h in Jan 2024.
19	014851	ALBANY HAVY & FANCOTE ST & DAVIS RD	20	1	1372793	>= 10 total crashes	S/L	Upgraded to traffic signals as part of Denny Ave LCR project (completed Dec 2020/Jan 2022).
20	012323	ABBEY RD & FORREST RD & GREEN AV	20	3	1152913)	L/L	Previous upgrade/improvement - Forrest Rd west leg with pre-deflection in early 2019 Future plans for a roundabout or signal (dual carriageway on Forrest Rd) (DPLH Forrest/Wungong/Eleventh Road Reservation Study (2016).
21	036310	ARMADALE RD & STREICH AV	19	3	1511250	>= 10 total crashes	S/L	Armadale future plans for Armadiae Strategic Metropolitan Activity Centre Strcuture Plan (2018) - Commerce Ave connects with Streich Av? MRWA is currently undertaking a study to improve intersection safety involving State road: in the Metro region. There is currently no further updates.
22	014794	SEVENTH RD & FORREST RD	17	0	1097826	>= 5 total crashes	L/L	Future plans for a roundabout (dual carriageway on Forrest Rd) (DPLH Forrest/Wungong/Eleventh Road Reservation Study (2016).
23	133395	RANFORD RD & BOARDWALK BVD	17	3	945526	>= 5 total crashes	ı/L	Boardwalk Bvd on Gosnells side. Future plans to remove CHL for 3 lanes on Ranford Rd (DPLH Ranford Road Reservation Study (2016)).
24	014733	TWELFTH RD & FORREST RD	17	5	742490	>= 5 total crashes	L/L	Future Wungong plans for a roundabout (Development WA/Planning/DCS funding)
25	014873	ALBANY HWY & FOSTER RD	17	2	696429	>= 10 total crashes	5/L	MRWA is currently undertaking a study to improve intersection safety involving State roads in the Metro region. There is currenity no further updates.
26	014864	AUBANY HWY & CARAWATHA AV	16	4	746448	>= 10 total crashes	S/L	MRWA is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currenlty no further updates.
27	209311	H411 (Twelfth Rd Rty) & RANFORD RD	16	3	599216	>= 10 total crashes	L/L	Future Wungong plans to upgrade Twelfth Rd (Development WA/Planning/DCS funding).
28	076416	GILLAM DR & CHAMPION DR	14	3	898512	>= 5 total crashes	L/L	Pre-deflection on Champion Dr SE leg in late 2019.
29	036770	ARMADALE RD & GRIBBLE AV	14	7	679838	>= 10 total crashes	s/L	MRWA is currently undertaking a study to improve intersection safety involving State road: in the Metro region. There is currenlty no further updates. Armadale Rd (west of Gribble Rd to east of Tait St) speed reduction to 70km/h from 80km/h in Jan 2024.
30	224556	NICHOLSON RD & EASTHOPE LINK & BROADWAY BVD	14	1	643030	>= 5 total crashes	L/L	Armadale 2024/25 black spot project submitted for approval - Install pre-deflection on Nicholson Road approach to the roundabout including skid resistant improvement, and improve pedestrian/cyclist facilities.
31	172807	NICHOLSON RD & WRIGHT RD	13	1	1142388	>= 5 total crashes	L/L	Armadale 2022/23 black spot project (completed late 2023) - Install pre-deflection on Nicholson Rd approach and improve pedestrian facilities.
32	036342	ARMADALE RD & CHURCH AV	13	2	703406	>= 10 total crashes	S/L	MRWA is currently undertaking a study to improve intersection safety involving State roads in the Metro region. There is currenlty no further updates.
33	014858	ALBANY HWY & CHURCH ST	13	3	584417	>= 10 total crashes	S/L	MRWA plans for S0/60km/h variable speed limit between Page Rd and Ottaway St by end of 2023. MRWA is currently undertaking a study to improve intersection safety involving State roads in the Metro region. There is currently no further updates.
34	036426	RAILWAY AV & CHAMPION DR	13	1	574282	>= 5 total crashes	L/L	*Predominant RA crashes. Street lighting consideration. Monitor future crash data MRWA future plans for grade reportation by 2026.
34	137011	TONKIN HWY & RANFORD RD	95	14	3811726	>= 10 total crashes	S/L	MRWA future plans for grade separation by 2026

Design Team - List of black spot monitoring sites

An Application Applica									
10 1,000	35	036181	DENNY AV & STREICH AV	12	3	617136	>= 5 total crashes	L/L	Upgraded to T-intersection as part of Denny Ave LCR project (completed Dec 2020/Jan 2022).
27 66144 MICHATHER FOREST 80 12 4 54152 3 3 40456 3 3 5 5 5 5 5 5 5 5	36	014901	ALBANY HWY & CABRADINE RD	12	1	615048	>= 10 total crashes	S/L	
33 90.985	37	004164	ELEVENTH RD & FORREST RD	12	4	541432	>= 5 total crashes	L/L	
1	38	014845			1				Signal removal and LILORI treatment as part of
49 131906	39	081407	STREICH AV & STREICH AV RAIL XING	11	2	562958	>= 5 total crashes	L/L	Note: Armadale 2022/23 approved black spot project for Railway Av/Streich Av Rail Xing (completed late 2023) - LILO treatment, extend LT pocket length and improve pedestrian
41 19982 Committed reads Committed (Committed (40	036339	CHURCH AV & WILLIAM ST	10	0	1007263	>= 5 total crashes	L/L	
A	40	137008	TONKIN HWY & ARMADALE RD	92	22	3224690	>= 10 total crashes	S/S	MRWA future plans for grade separation by 2026
A	41	139162	TONKIN HWY (5TH BND) OFF & CORFIELD ST & TONKIN HWY (5TH BND) ON	10	1	528891	>= 10 total crashes	S/L	
44 3 379072 ANALOSIS DE LEVENTO SE ALANOMA DE AL COURT DE AL CONTROL DE AL COURT DE AL COU	42	068988	ALBANY HWY & PAGE RD	10	2	430803	>= 10 total crashes	S/L	of 2023. MRWA is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently no further updates.
April	43	279072	ARMADALE RD & WARTON RD	10	1	328500	>= 10 total crashes	S/L	
45 OL439 COMMERCE AV & THIRD DO (INVEST) 9 1 369340 15 Stord craphe U. DOIS - Commerce Are connected with Storich AV DOIS - Commerce Are connected with Storic AV DOIS - Commerce Ave DOIS - Commerce Ave DOIS - Co	44	036358	ELEVENTH RD & LANNAM RD & ASTORIA BVD	9	2	925977	>= 5 total crashes	L/L	Future Wungong plans to upgrade Eleventh Rd (Development WA/Planning/DCS funding).
1	45	043990	RANFORD RD & BALFOUR ST	9	2	369340	>< 5 total crashes	L/L	Future plans for LILO treatment (DPLH Ranford Road Reservation Study (2016))
A	45	014839	COMMERCE AV & THIRD RD (WEST)	9	1	369340	>= 5 total crashes	L/L	
49	47	170913	CHURCH AV & GREEN AV & WUNGONG RD	8	0	574599	>= 5 total crashes	L/L	BRE project plans to remove level rail crossing on Church Av Future plans for a modified roundabout (DPLH Forrest/Wungong/Eleventh Road
9 098-25 STRUCK AV BUNDS OF STRU	48	224558	NICHOLSON RD & YELLOWWOOD AV	8	2	373372	>= 5 total crashes	L/L	Monitor future crash data.
50 077413 CHURCH AV BLORDED R. COMMERCE AV 7 0 3589506 >> 5 total crashes U.	49	036325	STREICH AV & DAVIS RD & THIRD AV	8	2	335432	>= 5 total crashes	L/L	
1	50	077413	CHURCH AV & HOBBS DR & COMMERCE AV	7	0	358926	>= 5 total crashes	L/L	
\$2				7					*All RA crashes. Street lighting audit identified for an upgrade. Possibly high speed entry
Signature Sign	52	139164	CORFIELD ST & KOORDEN CL & BUS DEPOT	6	0	834156	>= 5 total crashes	L/L	
S4	53			6	0	326150			
Second S	54	209310	RANFORD RD & TESLA WY	6	0	307598	>= 5 total crashes	L/L	
Second S	55	036237	WESTFIELD RD & CHAMPION DR	6	1	289194	>= 5 total crashes	L/L	Monitor future crash data.
178486	56	036204	RAILWAY AV & DURLING PL	6	1	288284	>= 5 total crashes	L/L	
59 036172 NCHOLSON RD & HARRISDALE DR 5 1 604830 >> 5 total crashes L/L Monitor future crash data				7	1			L/L	
60 036326					3				
61 166674 WRIGHT RO & RELLY RD				5	1			L/L	
MARTON RD & ERADE DR S 1 237866 >> S total crashes U/L Monitor future crash data. U/L				5	0				
63 036461 WILLIAMS RD & CHAMPION DR 5 0 219462 >= 5 total crashes U/L Armitor future crash data. 64 036348 CIGHTH RD & WOLLASTON AV 5 1 201058 >= 5 total crashes U/L Armitor future crash data. 65 036428 RAILWAY AV & GLADSTONE RD 5 0 182654 >= 5 total crashes U/L Monitor future crash data. 66 MONITOR future crash data. 67 MONITOR future crash data. 68 MONITOR future crash data. 68 MONITOR future crash data. 69 MONITOR future crash data. 60 MONITOR future crash data. 61 MONITOR future crash data. 62 MONITOR future crash data. 63 MONITOR future crash data. 64 MONITOR future crash data. 65 MONITOR future crash data. 66 MONITOR future crash data. 67 MONITOR future crash data. 68 MONITOR future crash data. 69 MONITOR future crash data. 69 MONITOR future crash data. 60 MONITOR future crash data. 61 MONITOR future crash data. 61 MONITOR future crash data. 61 MONITOR future crash data. 62 MONITOR future crash data. 63 MONITOR future crash data. 64 MONITOR future crash data. 65 MONITOR future crash data. 66 MONITOR future crash data. 67 MONITOR future crash data. 68 MONITOR fut					2				
64 036348 EIGHT RD & WOLLASTON AV 5 1 201058 >= 5 total crashes U/L bersubmitted in 2024 for construction operancing PY 2025/26). 65 036428 RAILWAY AV & GLADSTONE RD 5 0 182654 >= 5 total crashes U/L Monitor future crash data. 66 036428 RAILWAY AV & GLADSTONE RD 5 0 182654 >= 5 total crashes U/L Monitor future crash data. 67 04062 ALBANY MAY & SOUTH WESTERN HWY & ARMADALE RD 40 5 2064699 >= 10 total crashes S/S MRWA is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersectio									
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### ALBANE HWY (STANT DUAL) & BRUCK ON HWY ### 148911 H##11 (Twelfth Rd Rty) & ARMADALE RD (LT) ### 20 2 656016 >= 10 total crashes In the Metro region. There is currenlty no further updates. #### ARMADALE RD (LT) ### 20 2 656016 >= 10 total crashes Future Wungong plans to upgrade Twelfth Rd Rty) & RANFORD RD above). ### ARMADALE RD (RT) ### 20 2 84498 >= 10 total crashes Future Wungong plans to upgrade Twelfth Rd Rty) & RANFORD RD above). ### ARMADALE RD (RT) ###		004062	ALBANY HWY & SOUTH WESTERN HWY & ARMADIALE RD	40	5	2064699	>= 10 total crashes		MRWA is currently undertaking a study to improve intersection safety involving State road:
453 148911 H411 (Twelfth Rd Rty) & ARMADALE RD (LT) 20 2 656016 >= 10 total crashes S/L WRWA is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a budy to improve intersection RR Rty) & RANFORD RD above). 462 148910 H411 (Twelfth Rd Rty) & ARMADALE RD (RT) 19 2 844998 >= 10 total crashes S/L MRWA is currently undertaking a study to improve intersection safety involving State road above). MRWA is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently undertaking a study to improve intersection safety involving State road. MRWA is currently undertaking a study to improve intersection safety involving State road.	260	004136	ALBANY HWY (START DUAL) & BROOKTON HWY	36	8	2247288	>= 10 total crashes	s/s	
462 148910 H411 (Twelfth Rd Rty) & ARMADALE RD (RT) 19 2 844998 >= 10 total crashes 5/L MRWA is currently undertaking a study to improve intersection safety involving State road:	453	148911	H411 (Twelfth Rd Rty) & ARMADALE RD (LT)	20	2	656016	>= 10 total crashes	S/L	Future Wungong plans to upgrade Twelfth Rd (See H411 (Twelfth Rd Rty) & RANFORD RD above). MRWA is currently undertaking a study to improve intersection safety involving State road in the Metro region. There is currently no further updates.
	462	148910	H411 (Twelfth Rd Rty) & ARMADALE RD (RT)	19	2	844998	>= 10 total crashes	S/L	above). MRWA is currently undertaking a study to improve intersection safety involving State road:

Legend	
ROAD	Involve State road(s)
ROAD	Wungong Urban Water area
ROAD	Upgraded/improved in the recent years
	2022/23 black spot project
	2024/25 black spot project
	Potential future black spot project