Officers' Reports

Local Traffic Management Program - Street Schemes

ITEM:7.15.

City Planning and Infrastructure

Ward: NA

City and Asset Planning

Keri New

Purpose of Report: **To advise Council on investigations into Local Traffic Management street schemes at various locations.**

Council Plan Reference

1. People Driven
1.3 A City with an accessible and well connected transport network

Executive Summary

The Local Traffic Management (LTM) Program has identified five street schemes which have met the minimum intervention level score and could benefit from traffic calming devices with associated line marking, signage and lighting upgrade works.

The functional design and consultation stage for these schemes is complete with overall support for four of the five proposed schemes.

It is proposed to abandon the Beaumont Road proposal based on the community feedback received and that Beaumont Road be reassessed in next year's program with further analysis of the feedback received.

The proposed street-based treatments at the four supported locations is estimated to cost $420,000 and officers recommend that the projects be referred to the Capital Works Program (CWP) for delivery under the LTM program.

Background

At its meeting on 7 August 2018, Council, in adopting Officer's Report Item 6.9, Local Traffic Management Program Review 2018, resolved in part:

1. *That the following streets progress to the functional layout and consultation stage of the Local Traffic Management Program as a street-based scheme.*

    - *Beaumont Road, Berwick*
    - *Edrington Park Drive, Berwick*
    - *Mossgiel Park Drive, Endeavour Hills*
    - *David Collins Drive, Endeavour Hills*
    - *Darling Way, Narre Warren*

During the design/community consultation stage, there is a requirement to submit to Council a report recommending whether the proposed LTM schemes should be referred to the CWP. The LTM Program process is shown in Attachment 1.

Various factors are used to assess each street listed in the LTM program. The criteria are scored for the typical traffic conditions relating to a local street, access street and collector road as it is expected each type of road would have different tolerances or operating conditions.

Assessment Criteria:

- Classification - Local to Collector.
- Traffic Volume, vehicles per day.
- Traffic Volume, peak hour – High peak hour volumes can indicate "rat run" problems.
- 85th percentile speed – Gives indication of typical traffic speeds.
- Commercial Vehicle Content – Can indicate problems with through traffic.
- Education Facilities – Makes allowance for presence of pedestrians and vulnerable road users.
- Activity Generators – Makes allowance for presence of pedestrians and vulnerable road users.
- Accident Statistics – Reported casualty accidents for past five years (data updated annually).
- Road Geometry – Subjective assessment of the effects of the horizontal and vertical alignment.
- Network Impact Criteria – Subjective assessment of transference issues and network delivery impacts.

This report outlines the detailed investigations into the street LTM schemes at the listed locations.

Community Consultation

Community consultation was undertaken to gauge the level of support for a traffic management scheme. A letter, functional design plans, and a feedback form along with a reply-paid envelope were mailed to property owners and residents in the affected streets on 6 March 2019. Further information and the functional designs relating to these LTM schemes were also featured on the Casey Conversations website which included an online survey.

The emergency service organisations were notified of the proposed treatments. Public Transport Victoria (PTV) were consulted however did not provide feedback.

A community drop in session for the five LTM street schemes was held at Bunjil Place on 21 March 2019 4.00pm – 6.00pm. This was advertised on Council's Casey Conversations page, local paper and within the mail out of letters sent to affected residents and property owners. Fourteen people attended the session and all who attended were in relation to the Beaumont Road and Edrington Park Drive proposals.

Projects and Consultation Feedback

Beaumont Road, Berwick

Beaumont Road functions as a semi-rural local road and is situated north of the Lyall Road/Inglis Road intersection. There has been one serious injury collision in the past five-year period. The 85th percentile speed for Beaumont Road is 75.2 km/hr in the 50 km/hr speed zone.

The proposed LTM scheme is for the installation of six flat top humps together with associated lighting, line marking and signage.

A total of 21 responses were received to the LTM scheme proposal. Of the 21 responses received 9 were in support and 12 were in objection to the proposal (43% for and 57% against).

Based on the results of the consultation Council officers recommend the abandonment of the LTM street scheme proposal in its current form. It is recommended that Beaumont Road be reinvestigated to identify alternative treatments for the street considering the feedback received.

Edrington Park Drive, Berwick

Edrington Park Drive functions as a local road and is situated between Melville Park Drive and Bryn Mawr Boulevard. There has been one serious injury collision in the past five-year period and one reported loss of control property damage incident. The 85th percentile speed for Edrington Park Drive is 54.2 km/hr in the 50 km/hr speed zone. The road carries a large amount of school peak traffic from the primary and secondary schools in the area.

The proposed LTM scheme is for the installation of five flat top humps together with associated lighting, line marking and signage.

A total of 21 responses were received to the LTM scheme proposal. Of the 22 responses, 15 were in support and 7 objected to the proposal (68% for and 32% against).

Strong objection was received in relation to the flat top hump at Location 1. The recorded accident history for Edrington Park Drive has occurred at the eastern end of the street adjacent Sumner Court and McKay Close. Due to the strong objection to the treatment at Location 1 and the generally supportive feedback for the other treatments, Council officers recommend the abandonment of the treatment at Location 1 and just project Locations 2 – 5 be referred to the CWP program for delivery under the LTM program.

Mossgiel Park Drive, Endeavour Hills

Mossgiel Park Drive serves as a collector road which connects from Heatherton Road and continues north onto Gleneagles Drive. There have been two injury collisions in the past five-year period one of which was classified as a serious injury collision. The 85th percentile speed for Mossgiel Park Drive is 60.4 km/hr in a 50 km/hr speed zone. St Paul Apostle North Primary School fronts the northern section of Mossgiel Park Drive.

The proposed LTM scheme is for the installation of three flat top humps together with associated lighting, line marking and signage.

A total of 13 responses were received to the LTM scheme proposal. Of the 13 responses, 8 were in support and 5 were in objection to the proposal including one strong objection (61.5% for and 38.5% against). The strong objection was from a resident in the street who is opposed to speed humps in general and was not from a resident directly abutting one of the proposed treatments.

Several surrounding streets have previously been treated under the LTM program including Gleneagles Drive, Scotsburn Way, Reema Boulevard and Kennington Park Drive. The proposed treatments in Mossgiel Park Drive will effectively complete the treatment of the major roads in Endeavour Hills north of Heatherton Road.

Based on the feedback received, Council officers recommend this project be referred to the CWP program for delivery under the LTM program.

David Collins Drive, Endeavour Hills

David Collins Drive serves as a collector road which connects to James Cook Drive at both ends of the street. There have been two injury collisions in the past five-year period. The 85th percentile speed for David Collins Drive is 61.0 km/hr in a 50 km/hr speed zone. Nearby activity generators and educational facilities include Frog Hollow Reserve, Southern Cross Primary School and David Collins Early Childhood Development Centre.

The proposed LTM scheme is for the installation of six flat top humps together with associated lighting, line marking and signage.

A total of 12 responses were received to the LTM scheme proposal. Of the 12 responses, nine were in support and three objected to the proposal (75% for and 25% against).

Based on the feedback received, Council officers recommend this project be referred to the CWP program for delivery under the LTM program.

Darling Way, Narre Warren

Darling Way serves as a collector road which connects to Saxonwood Drive at its northern end and Fleetwood Drive at its southern end. There have been two injury collisions in the past five-year period. The 85th percentile speed for Clive Street is 58.3 km/hr in a 50 km/hr speed zone. Currently the 834 and 835 bus routes operate along Darling Way.

The proposed LTM scheme is for the installation of five flat top humps together with associated lighting, line marking and signage.

A total of 13 responses were received to the LTM proposal. Of the 13 responses, ten were in support and three were in objection to the proposal (77% for and 23% against).

Based on the feedback received, Council officers recommend this project be referred to the CWP program for delivery under the LTM program.

The functional designs for the four supported projects are included as Attachment 2.

Financial Implications

The estimated costs for each of the four projects is as follows:

- Edrington Park Drive, Berwick - $100,000
- Mossgiel Park Drive, Endeavour Hills - $40,000
- David Collins Drive, Endeavour Hills - $150,000
- Darling Way, Narre Warren - $130,000

The combined estimated project cost is $420,000. These costs will be confirmed at the detailed design stage and subsequently listed for delivery in the forward Capital Works Program. The proposed flat top humps treatments would be delivered under the LTM Program subject to funding availability

Officer Direct or Indirect Interest

No Council officers involved in the preparation of this report have a direct or indirect interest in matters for consideration.

Conclusion

A functional design and consultation process has been undertaken for the installation of street-based local traffic management treatments in Beaumont Road, Edrington Park Drive, Mossgiel Park Drive, David Collins Drive and Darling Way together with associated lighting, line marking and signage.

The consultation process with the community has shown there is support for four out of the five proposed projects. With a low level of support the Beaumont Road, Berwick scheme is proposed to be deferred at this time. The Edrington Park Drive scheme has been amended to abandon the proposed treatment at Location 1.

It is estimated that the four street scheme projects will cost $420,000 and the officer's recommendation is that these projects be referred to the CWP for delivery under the LTM Program.

Attachments

1. Local Traffic Management Program Process - 16-07-2019 **[7.15.1 - 1 page]**
2. Functional Layout Plans - Street LTM Schemes - 16-07-2019 **[7.15.2 - 22 pages]**

Recommendation

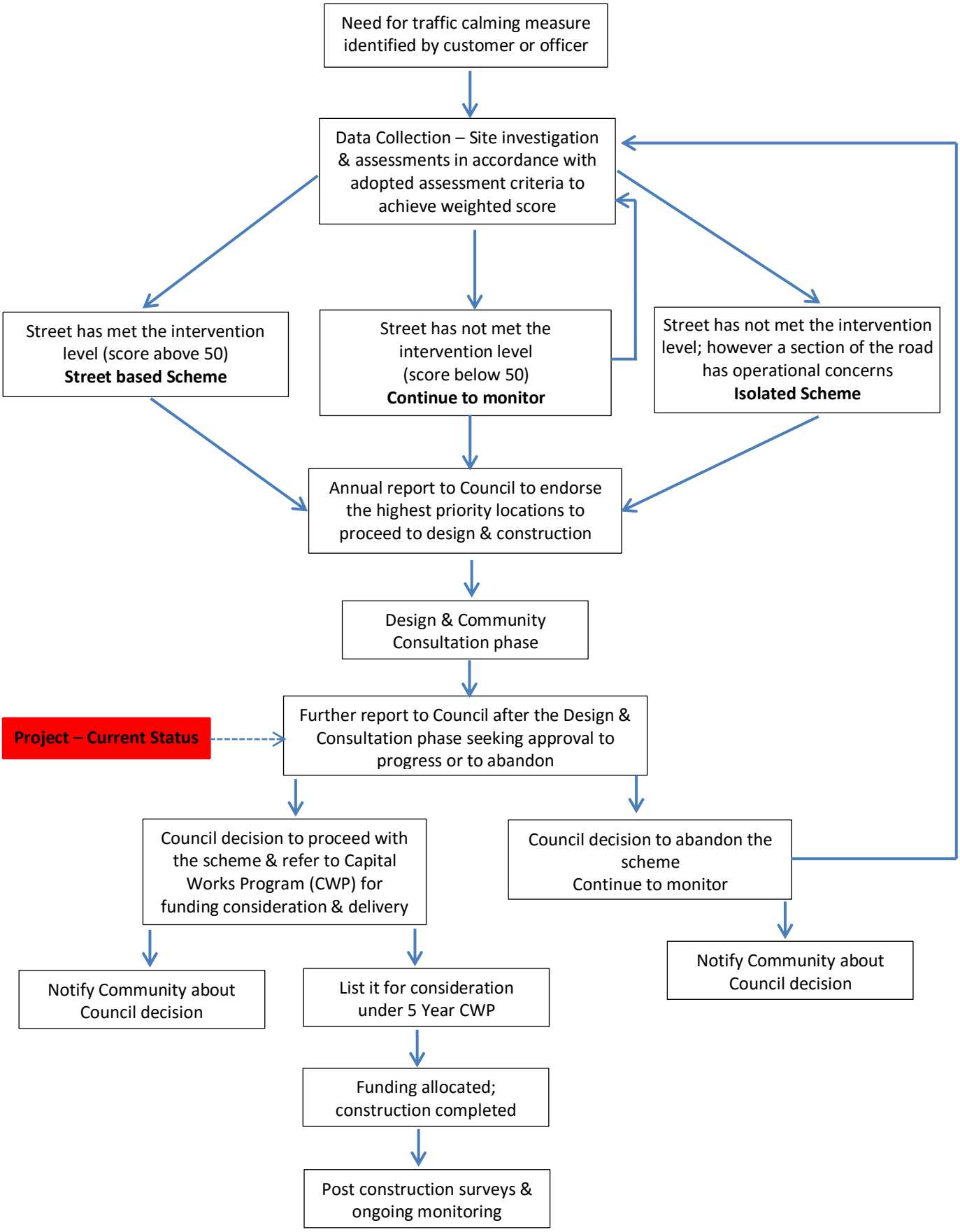
1. That the Local Traffic Management Schemes as detailed in this report be referred to the Capital Works Program through the Local Traffic Management Program budget allocations for the following street-based schemes.

- **Edrington Park Drive, Berwick**
- **Mossgiel Park Drive, Endeavour Hills**
- **David Collins Drive, Endeavour Hills**
- **Darling Way, Narre Warren**

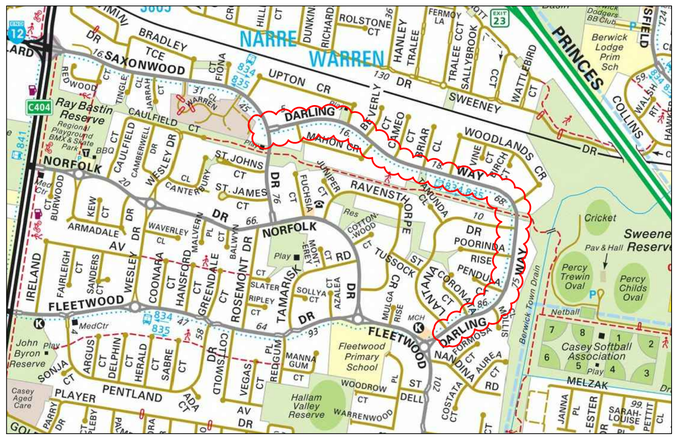
2. That the residents in proximity of the proposed treatments in be advised of this decision.

3. That residents in the subject area of the proposed street Local Traffic Management Scheme in Beaumont Road be advised that the proposed scheme has been deferred at this time and will be reassessed in next year's program.

Local Traffic Management Program Process



LOCAL AREA TRAFFIC MANAGEMENT
DARLING WAY, NARRE WARREN

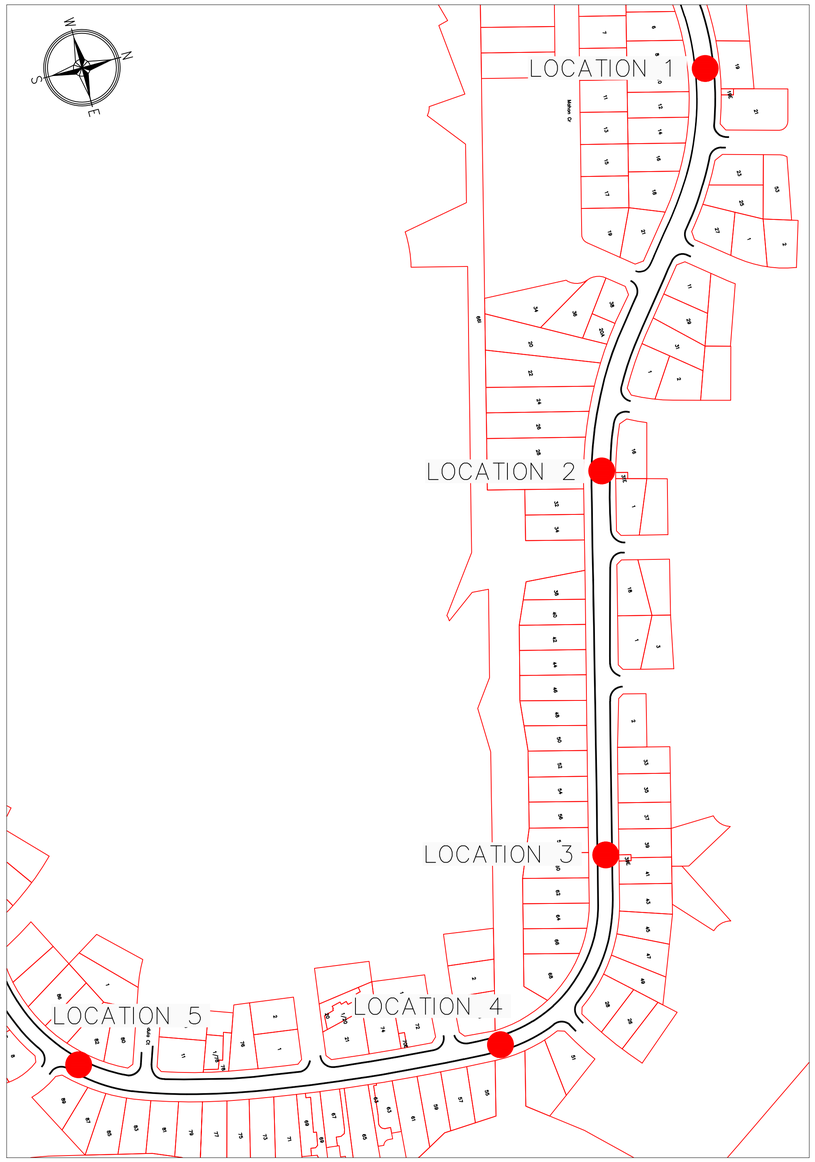


LOCATION PLAN

MELWAY – 110 H9

SHEET INDEX

R5233 - 01	LOCALITY PLAN, SHEET INDEX, SIGNAGE DETAIL & NOTES (SHEET 1 OF 7)
R5233 - 02	FLAT TOP HUMP CONSTRUCTION DETAILS (SHEET 2 OF 7)
R5233 - 03	LAYOUT PLAN LOCATION 1 (SHEET 3 OF 7)
R5233 - 04	LAYOUT PLAN LOCATION 2 (SHEET 4 OF 7)
R5233 - 05	LAYOUT PLAN LOCATION 3 (SHEET 5 OF 7)
R5233 - 06	LAYOUT PLAN LOCATION 4 (SHEET 6 OF 7)
R5233 - 07	LAYOUT PLAN LOCATION 5 (SHEET 7 OF 7)



LOCALITY PLAN

FLAT TOP HUMP LOCATIONS

S1 — W5-10A, W8-2A, 20 km/h

HUMP SIGNS TO BE INSTALLED ALIGNED WITH SPEED HUMP AT ALL LOCATIONS. (TO BE APPROVED BY SUPERINTENDENT)

S2 — W3-4A, W8-17-2A, NEXT 350m

ROAD HUMPS AHEAD SIGNS TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS SOUTH OF HUMP LOCATION).

S3 — CHANGED TRAFFIC CONDITIONS AHEAD

T1-23

- 2 NO CHANGED TRAFFIC CONDITIONS AHEAD TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS AT HUMP LOCATION).

SIGNAGE LEGEND

NOTES:

1. ALL DIMENSIONS IN METRES (UNLESS NOTED OTHERWISE)
2. SET-OUT IS TO CENTRE OF TREATMENT
3. ALL TBM AND TRAVERSE LINE SETOUT CO-ORDINATES ARE TO GDA94. LEVELS TO AHD
4. ALL WORK WITHIN ROAD RESERVE IS TO BE PERFORMED IN ACCORDANCE WITH AS 1742.3
5. ALL PIT LIDS, VALVE COVERS, ETC WITHIN THE WORK AREA ARE TO BE ADJUSTED TO SUIT THE NEW LEVELS
6. ALL SERVICE AUTHORITIES TO BE NOTIFIED AND RELEVANT PERMITS RECEIVED PRIOR TO THE COMMENCEMENT OF ANY WORKS
7. ALL SIGNS AND ROAD FURNITURE AFFECTED BY WORKS ARE TO BE REMOVED & REINSTATE FOLLOWING COMPLETION OF CONSTRUCTION WORKS
8. ALL AREAS SURROUNDING WORKS TO BE TRIMMED/INFILLED TO MATCH FINISHED SURFACE LEVELS
9. ALL SERVICES TO BE PROVEN ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS
10. ALL ROAD CONSTRUCTION MATERIALS TO BE IN ACCORDANCE WITH THE SPECIFICATION
11. ALL SIGNAGE AND LINEMARKING TO BE INSTALLED AS PER AS1742
12. ALL PUBLIC LIGHTING WORKS TO BE DONE BY OTHERS

DIAL BEFORE YOU DIG
www.1100.com.au

WARNING
ALL SERVICES SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY AND EXACT LOCATION ID TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORKS

WARNING
BEWARE OF EXISTING OVERHEAD POWERLINES IN AREA

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE	GAS MAIN	G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM
PROPOSED DRAINAGE PITS	WATER MAIN	W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG
EXISTING DRAINAGE	TELEPHONE U/G	T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE
EXISTING DRAINAGE PITS	POWER U/G	E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO. (25)
PROPOSED KERB AND CHANNEL	POWER OVERHEAD E(OH) E(OH)		LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO. 65
EXISTING KERB AND CHANNEL	SEWER MAIN	S	POWER PIT	HOUSE DRAIN	TREE STUMP	PIT NO. (S2)

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: AS SHOWN	CITY OF CASEY	MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
COORD. SYS.:		LOCAL AREA TRAFFIC MANAGEMENT DARLING WAY, NARRE WARREN	DATE: 25.01.2019
SURVEY	JOB NO.	LOCALITY PLAN, SHEET INDEX, SIGNAGE DETAILS & NOTES	R5233 — REVISION –
DESIGN DP	DWG.FILENAME	SHEET 1 OF 5	SHEET 1 OF 7
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CERTIFIED	MELWAY REF.110 H9		
BRIEF NO.	CONTRACT NO.		

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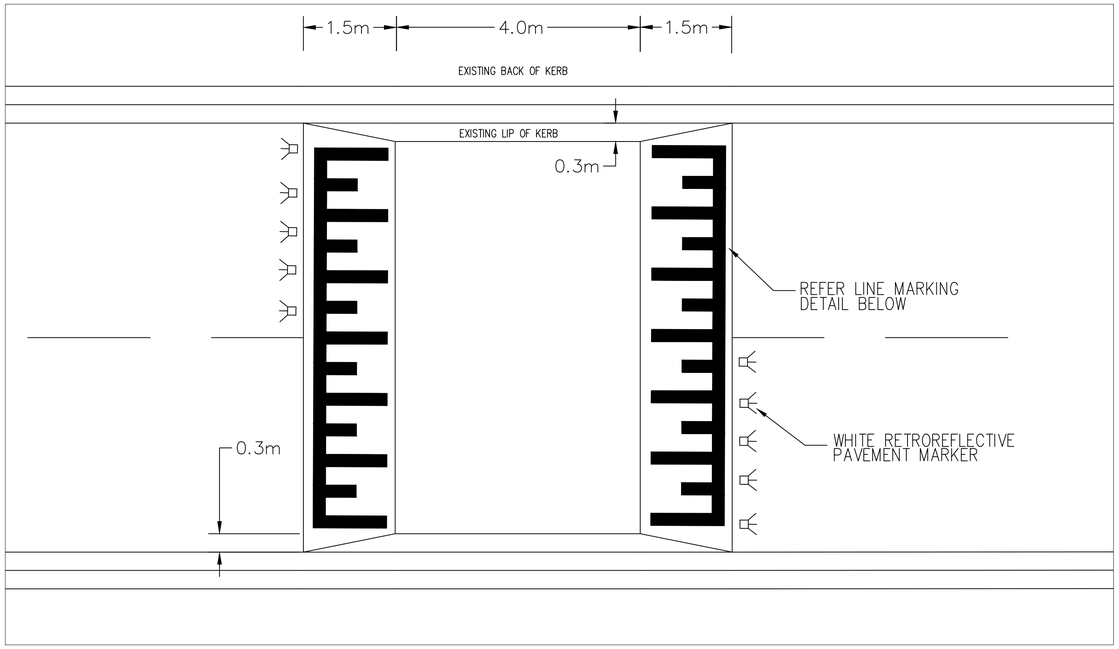
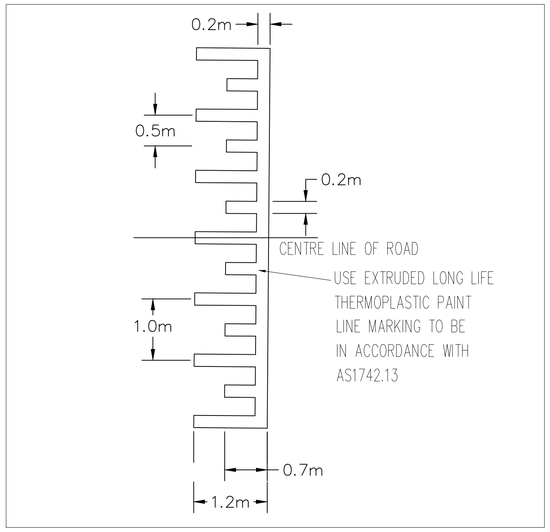


PLAN



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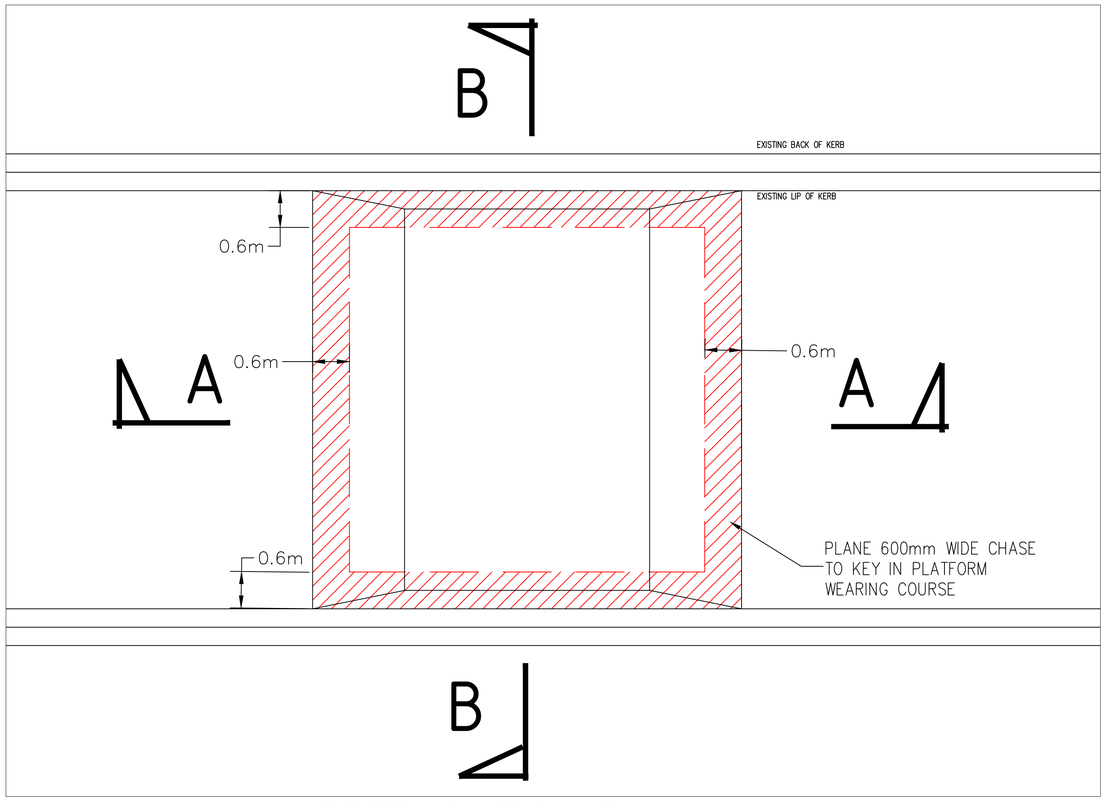
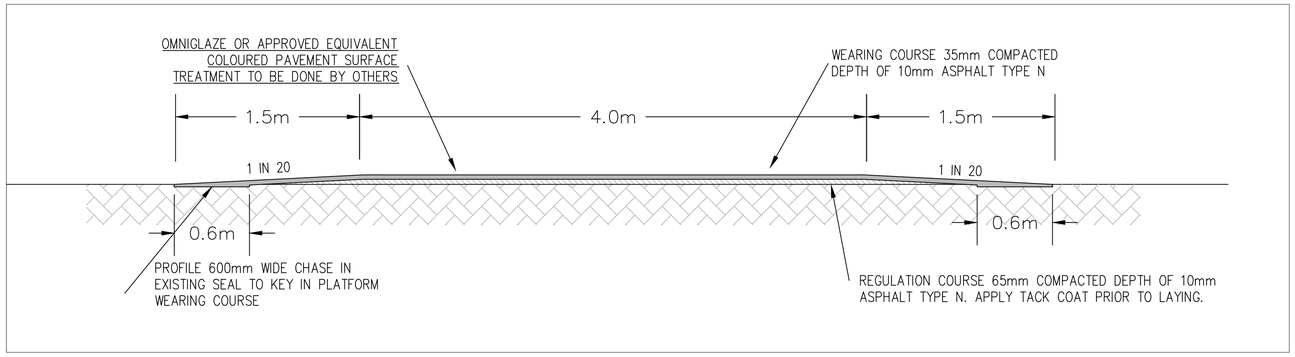
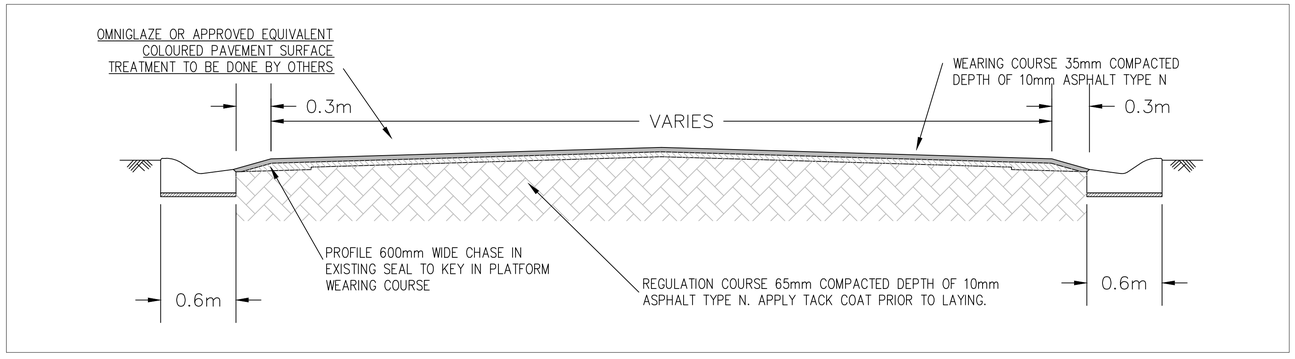


PREPARATION PLAN



SECTION A-A



SECTION B-B

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE		PSM	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE		TITLE PEG	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		THICKENED PATH		NATURAL SURFACE	
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX		TREE		HOUSE NO.	25
PROPOSED KERB AND CHANNEL		POWER OVERHEAD	E(OH) E(OH)	LIGHT POLE		GAS VALVE		TREE REMOVAL		LOT/LP NO.	65
EXISTING KERB AND CHANNEL		SEWER MAIN	S	POWER PIT		HOUSE DRAIN	H	TREE STUMP		PIT NO.	5.2

AMENDMENTS

DATE	REMARKS	REV	APP

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CITY OF CASEY

LOCAL AREA TRAFFIC MANAGEMENT
DARLING WAY, NARRE WARREN
DETAILS
SHEET 2 OF 7

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 25.01.2019
R5233
REVISION –
SHEET 2 OF 7

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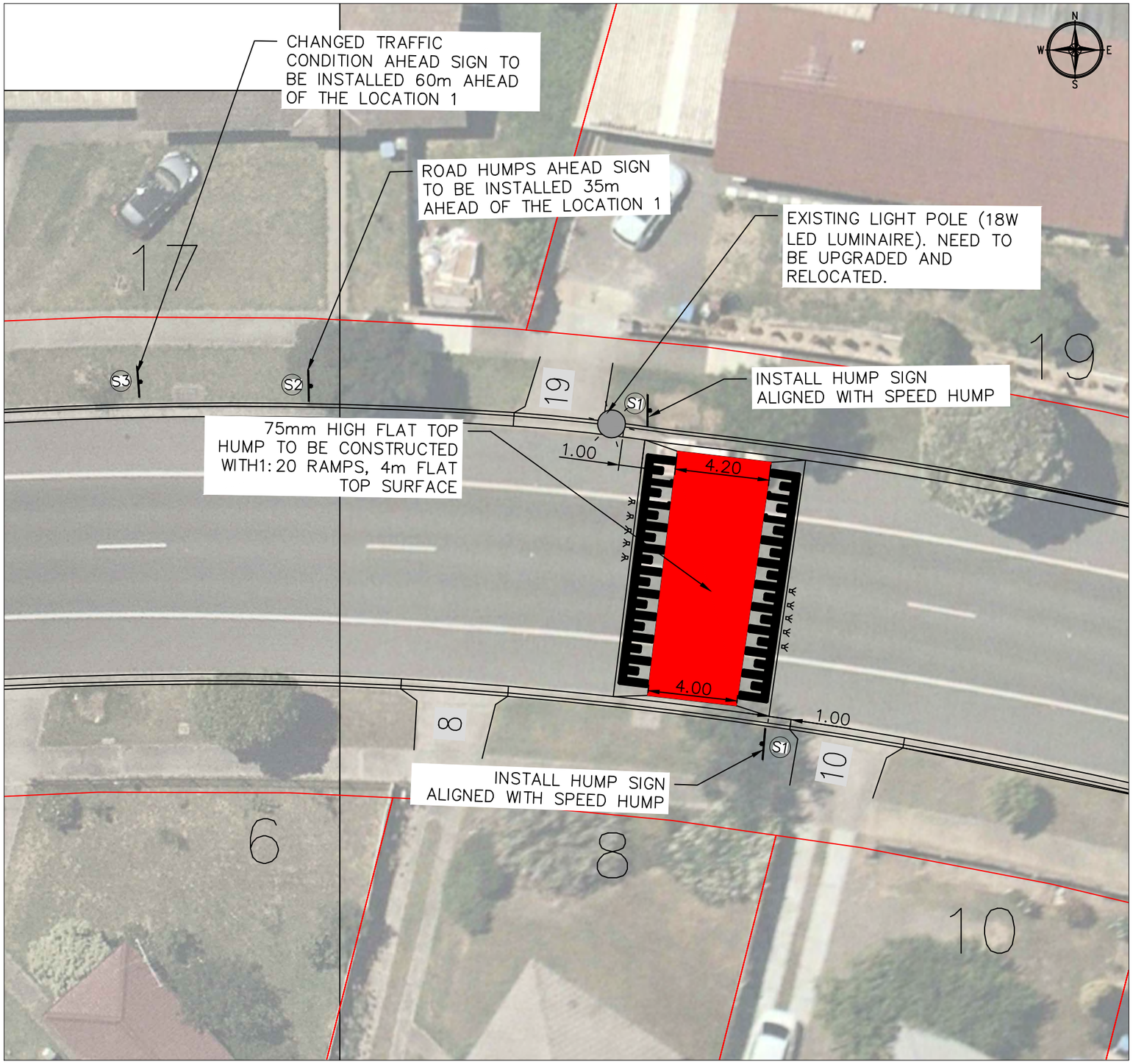

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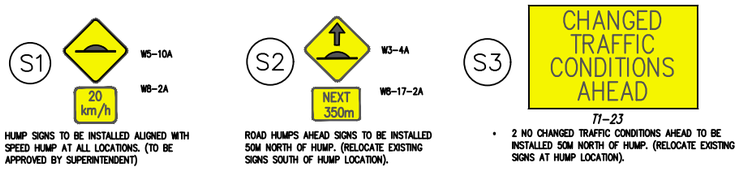

HUMP SIGNS TO BE INSTALLED ALIGNED WITH SPEED HUMP AT ALL LOCATIONS. (TO BE APPROVED BY SUPERINTENDENT)

ROAD HUMPS AHEAD SIGNS TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS SOUTH OF HUMP LOCATION).

- 2 NO CHANGED TRAFFIC CONDITIONS AHEAD TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS AT HUMP LOCATION).

SIGNAGE LEGEND

0 5 10 Meters

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE	GAS MAIN G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM
PROPOSED DRAINAGE PITS	WATER MAIN W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG
EXISTING DRAINAGE	TELEPHONE U/G T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE
EXISTING DRAINAGE PITS	POWER U/G E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO. 25
PROPOSED KERB AND CHANNEL	POWER OVERHEAD E(OH) E(OH)	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO. 65
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AMENDMENTS

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CONTRACT NO.

CITY OF CASEY

LOCAL AREA TRAFFIC MANAGEMENT
DARLING WAY, NARRE WARREN
LOCATION 1 LAYOUT PLAN
SHEET 3 OF 7

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 25.01.2019
R5233 REVISION –
SHEET 3 OF 7

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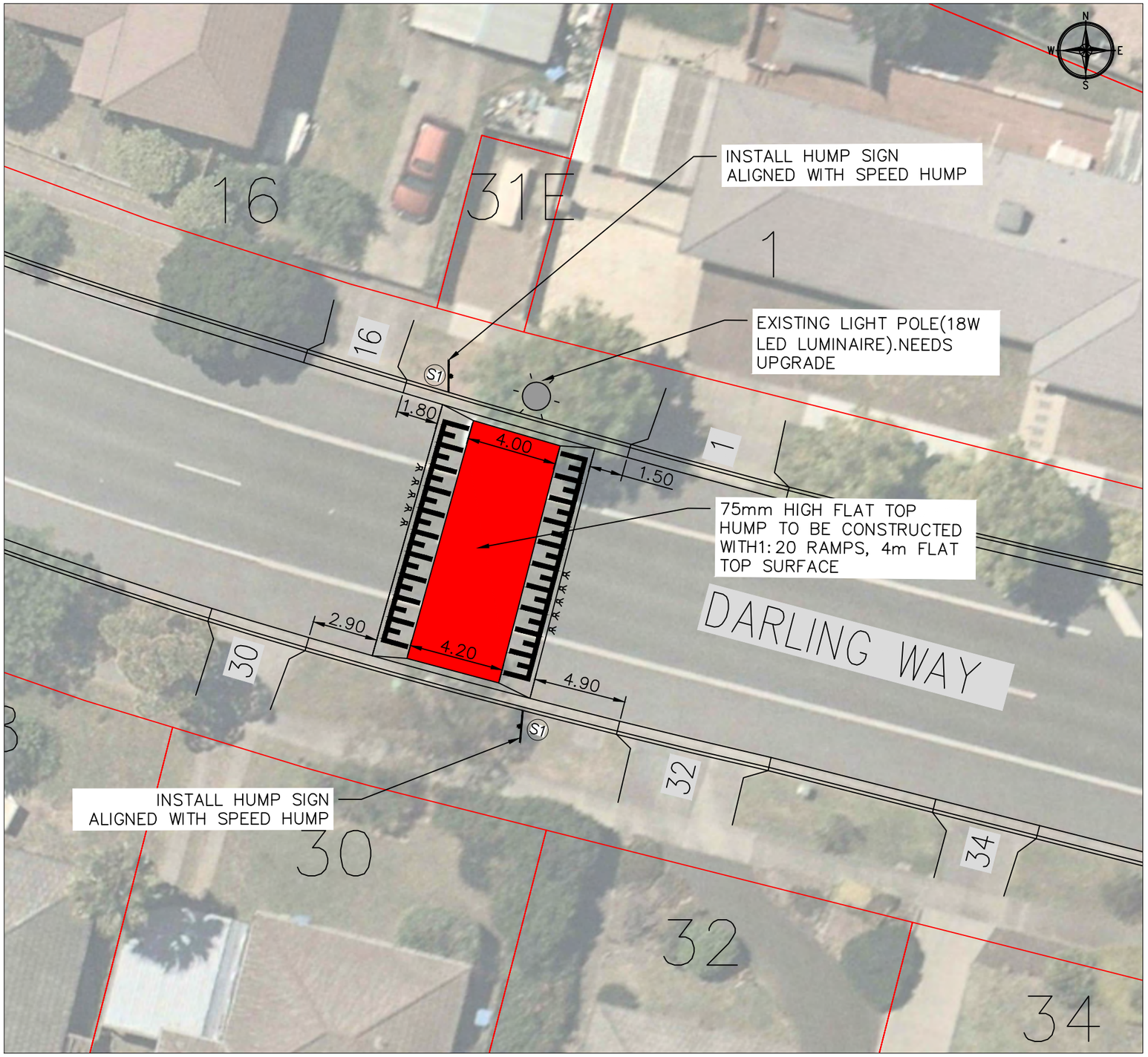

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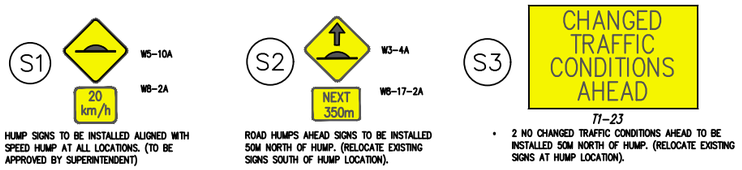

HUMP SIGNS TO BE INSTALLED ALIGNED WITH SPEED HUMP AT ALL LOCATIONS. (TO BE APPROVED BY SUPERINTENDENT)

ROAD HUMPS AHEAD SIGNS TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS SOUTH OF HUMP LOCATION).

- 2 NO CHANGED TRAFFIC CONDITIONS AHEAD TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS AT HUMP LOCATION).

SIGNAGE LEGEND

0 5 10 Meters

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE	GAS MAIN G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM
PROPOSED DRAINAGE PITS	WATER MAIN W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG
EXISTING DRAINAGE	TELEPHONE U/G T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE
EXISTING DRAINAGE PITS	POWER U/G E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO. 25
PROPOSED KERB AND CHANNEL	POWER OVERHEAD E(OH) E(OH)	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO. 65
EXISTING KERB AND CHANNEL	SEWER MAIN S	POWER PIT	HOUSE DRAIN -H-	TREE STUMP	PIT NO. 5.2

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.
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MELWAY REF.110 H9
CONTRACT NO.

CITY OF CASEY

LOCAL AREA TRAFFIC MANAGEMENT
DARLING WAY, NARRE WARREN
LOCATION 2 LAYOUT PLAN
SHEET 4 OF 7

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 25.01.2019
R5233 REVISION –
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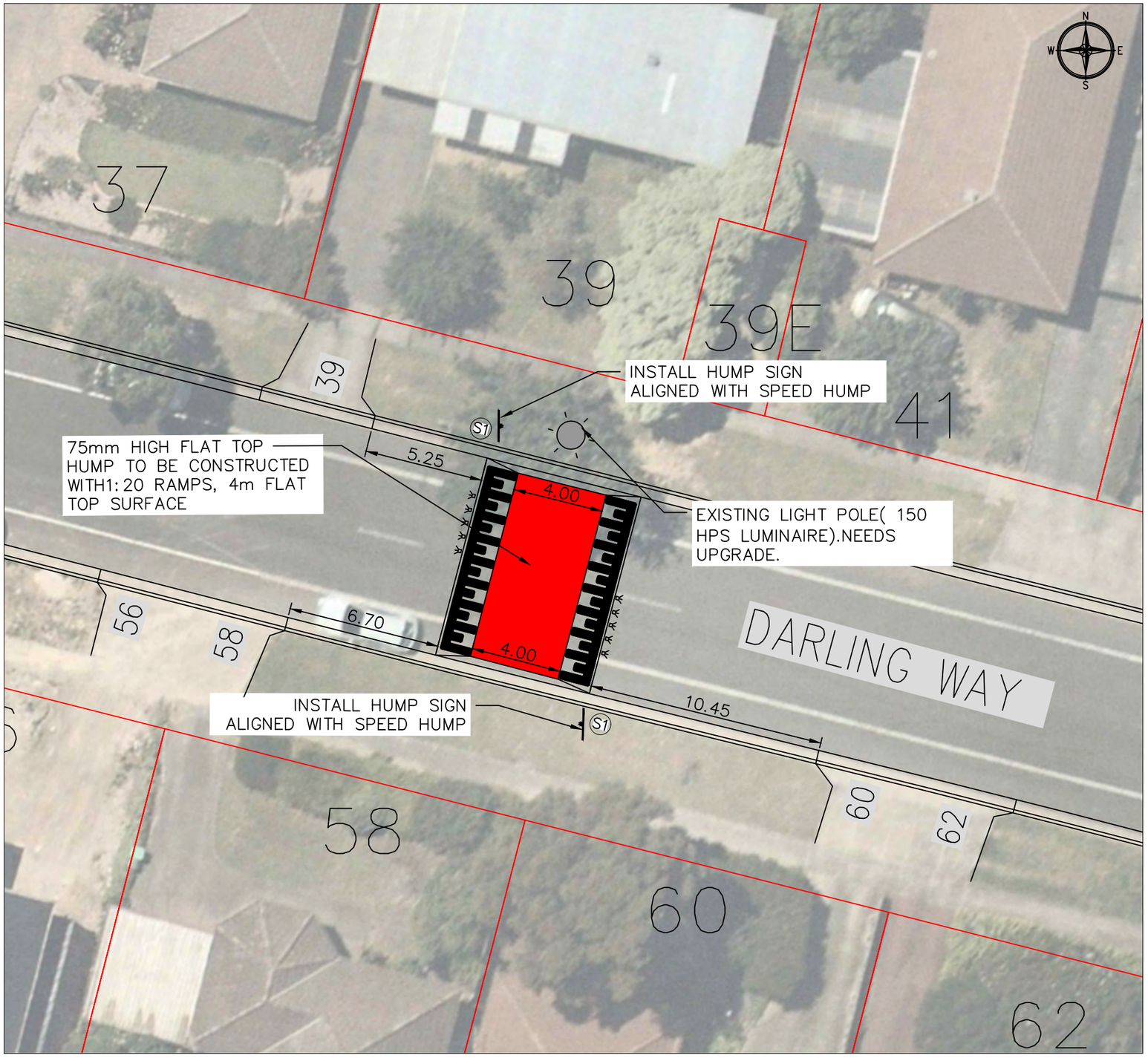

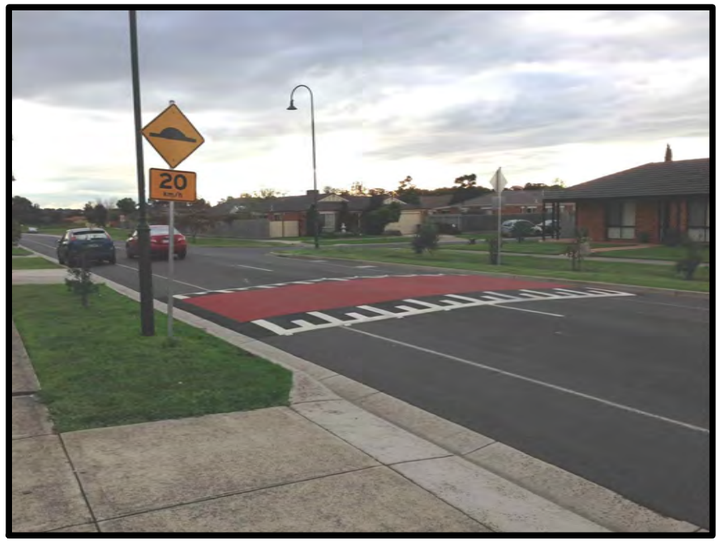

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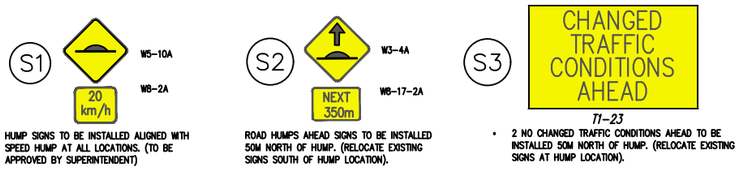


HUMP SIGNS TO BE INSTALLED ALIGNED WITH SPEED HUMP AT ALL LOCATIONS. (TO BE APPROVED BY SUPERINTENDENT)

ROAD HUMPS AHEAD SIGNS TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS SOUTH OF HUMP LOCATION).

- 2 NO CHANGED TRAFFIC CONDITIONS AHEAD TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS AT HUMP LOCATION).

SIGNAGE LEGEND

0 5 10 Meters

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE		PSM	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE		TITLE PEG	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		THICKENED PATH		NATURAL SURFACE	
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX		TREE		HOUSE NO.	25
PROPOSED KERB AND CHANNEL		POWER OVERHEAD	E(OH) E(OH)	LIGHT POLE		GAS VALVE		TREE REMOVAL		LOT/LP NO.	65
[illegible]		[illegible] MAIN	S	POWER PIT		HOUSE DRAIN	H	TREE STUMP		PIT NO.	S2

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.
COORD. SYS.:
SURVEY
DESIGN DP
CHECKED
CERTIFIED
BRIEF NO.

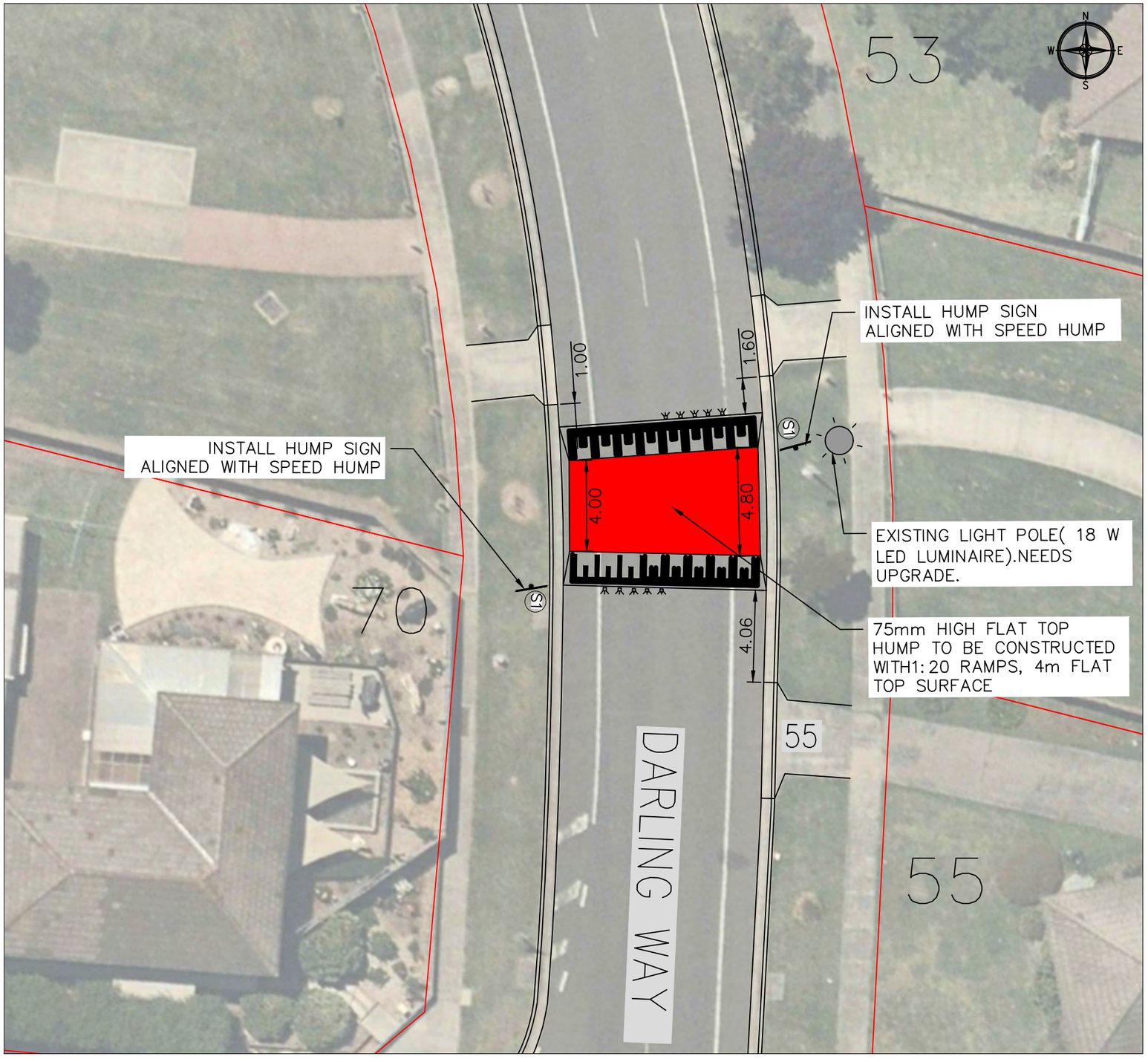
SCALE: AS SHOWN
JOB NO.
DWG.FILENAME
REG. FILE NO.
MELWAY REF.110 H9
CONTRACT NO.

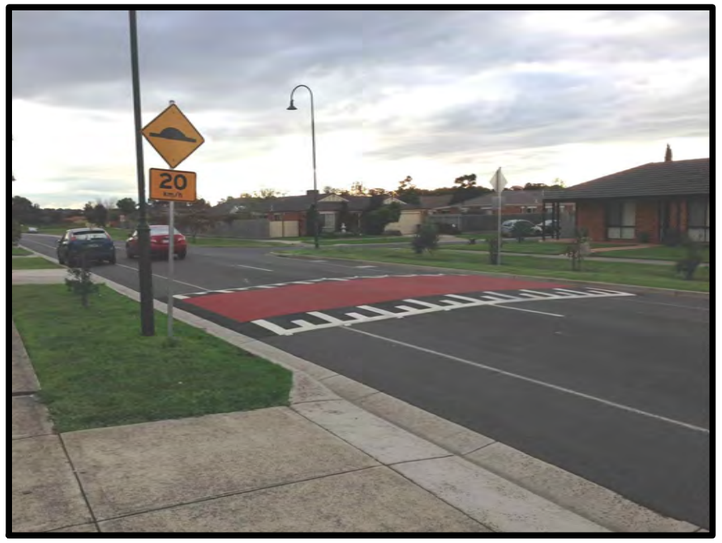
CITY OF CASEY

LOCAL AREA TRAFFIC MANAGEMENT
DARLING WAY, NARRE WARREN
LOCATION 3 LAYOUT PLAN
SHEET 5 OF 7

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 25.01.2019
R5233 REVISION –
SHEET [illegible] OF [illegible]

PLOTTED: 05 March, 2019 - 5:14 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\S0341 Darling Way LATM\Design & Estimate\ 190227 Darling Way_1_1_1298.sv$.dwg





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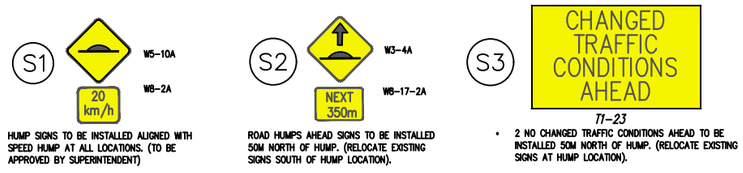

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SIGNAGE LEGEND

0 5 10 Meters

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE	GAS MAIN	G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM			
PROPOSED DRAINAGE PITS	WATER MAIN	W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG			
EXISTING DRAINAGE	TELEPHONE U/G	T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE			
EXISTING DRAINAGE PITS	POWER U/G	E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO.	25		
PROPOSED KERB AND CHANNEL	POWER OVERHEAD E(OH)	E(OH)	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO.	65		
[illegible]	[illegible] MAIN	S	POWER PIT	HOUSE DRAIN H	TREE STUMP	PIT NO.	5.2		

AMENDMENTS

DATE	REMARKS	REV	APP

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CONTRACT NO.

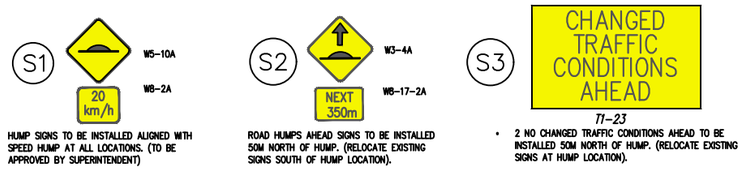
CITY OF CASEY

LOCAL AREA TRAFFIC MANAGEMENT
DARLING WAY, NARRE WARREN
LOCATION 4 LAYOUT PLAN
SHEET 6 OF 7

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 25.01.2019
R5233 REVISION –
SHEET 6 OF 7

PLOTTED: 05 March, 2019 - 5:14 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\S036:1 Darling Way LATM\Design & Estimate\190227 Darling Way_1.1_1298.sv8.dwg

EXAMPLE FLAT TOP



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SIGNAGE LEGEND

0 5 10 Meters

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE		PSM	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE		TITLE PEG	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		THICKENED PATH		NATURAL SURFACE	
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX		TREE		HOUSE NO.	25
PROPOSED KERB AND CHANNEL		POWER OVERHEAD	E(OH) E(OH)	LIGHT POLE		GAS VALVE		TREE REMOVAL		LOT/LP NO.	65
[illegible]		[illegible] MAIN	S	POWER PIT		HOUSE DRAIN	H	TREE STUMP		PIT NO.	5.2

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.
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REG. FILE NO.
MELWAY REF.110 H9
CONTRACT NO.

CITY OF CASEY

LOCAL AREA TRAFFIC MANAGEMENT
DARLING WAY, NARRE WARREN
LOCATION 5 LAYOUT PLAN
SHEET 7 OF 7

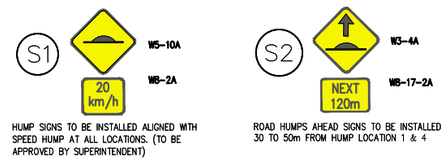
MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 25.01.2019
R5233 REVISION –
SHEET 7 OF 7

PLOTTED: 05 March, 2019 - 5:15 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\50341 Darling Way LATM\Design & Estimate\190227 Darling Way_1_1_1298.sv5.dwg

LOCAL AREA TRAFFIC MANAGEMENT

DAVID COLLINS DR, ENDEAVOUR HILLS

EXAMPLE TREATMENT



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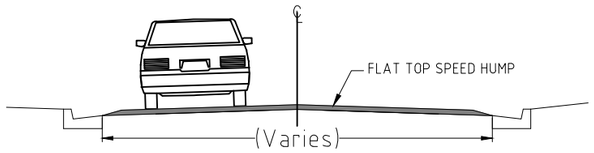

TYPICAL CROSS SECTIONS
NOT TO SCALE

SHEET INDEX

R-----C01	GENERAL NOTS, FACE SHEET & LOCALITY PLAN
R-----C02	GENERAL NOTS, FACE SHEET & LOCALITY PLAN
R-----C03	TYPICAL DETAILS
R-----C04	LAYOUT PLAN
R-----C05	LAYOUT PLAN

NOTES:

1. ALL DIMENSIONS IN METRES (UNLESS NOTED OTHERWISE)
2. SET-OUT IS TO LIP OF KERB (UNLESS NOTED OTHERWISE)
3. ALL TBM AND TRAVERSE LINE SETOUT CO-ORDINATES ARE TO GDA94. LEVELS TO AHD
4. ALL WORK WITHIN ROAD RESERVE IS TO BE PERFORMED IN ACCORDANCE WITH AS 1742.3
5. ALL PIT LIDS, VALVE COVERS, ETC WITHIN THE WORK AREA ARE TO BE ADJUSTED TO SUIT THE NEW LEVELS
6. ALL SERVICE AUTHORITIES TO BE NOTIFIED AND RELEVANT PERMITS RECEIVED PRIOR TO THE COMMENCEMENT OF ANY WORKS
7. ALL SIGNS AND ROAD FURNITURE AFFECTED BY WORKS ARE TO BE REMOVED & REINSTATE FOLLOWING COMPLETION OF CONSTRUCTION WORKS
8. ALL AREAS SURROUNDING WORKS TO BE TRIMMED/INFILLED TO MATCH FINISHED SURFACE LEVELS
9. ALL SERVICES TO BE PROVEN ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS
10. ALL ROAD CONSTRUCTION MATERIALS TO BE IN ACCORDANCE WITH THE SPECIFICATION
11. ALL PUBLIC LIGHTING WORKS BY OTHERS

WARNING
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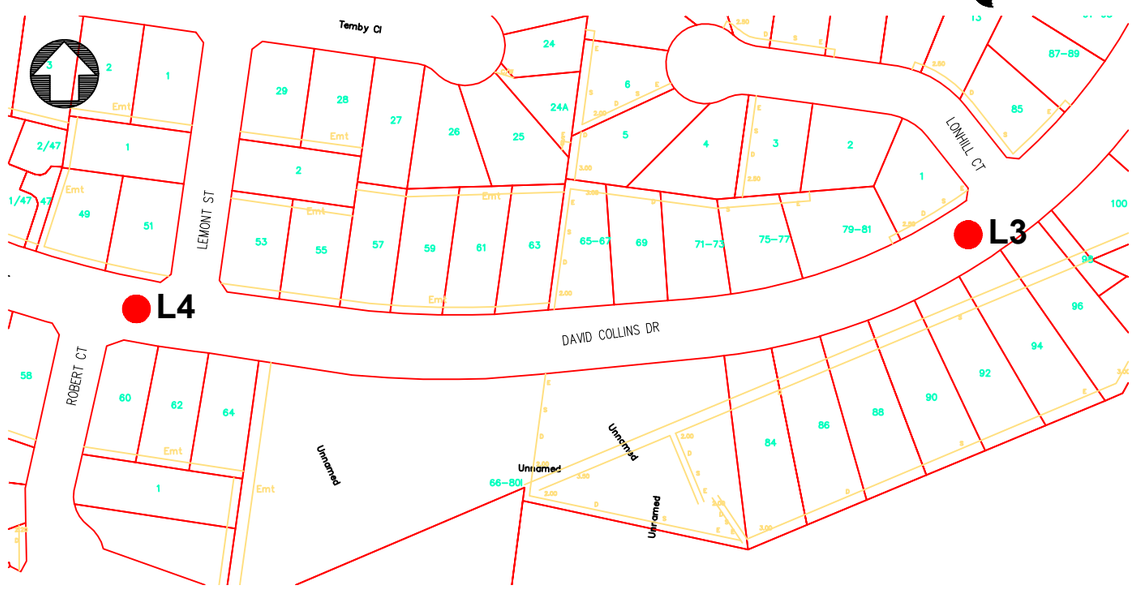
LOCALITY PLAN

FLAT TOP HUMP LOCATIONS

City of Casey



LEGEND									
PROPOSED DRAINAGE	GAS MAIN G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM				
PROPOSED DRAINAGE PITS	WATER MAIN W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG				
EXISTING DRAINAGE	TELEPHONE U/G T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE				
EXISTING DRAINAGE PITS	POWER U/G E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO. 25				
PROPOSED KERB AND CHANNEL	POWER OVERHEAD E(OH) E(OH)	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO. 65				
EXISTING KERB AND CHANNEL	SEWER MAIN S	POWER PIT	HOUSE DRAIN --H--	TREE STUMP	PIT NO. 52				

AMENDMENTS			
DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: 1 :
COORD. SYS.:	
SURVEY	JOB NO.
DESIGN IH	DWG.FILENAME
CHECKED	REG. FILE NO.
CERTIFIED	MELWAY REF.
BRIEF NO.	CONTRACT NO.

CITY OF CASEY
DAVID COLLINS DR, ENDEAVOUR HILLS
PROPOSED FLAT TOP SPEED HUMP
GENERAL NOTS, FACE SHEET & LOCALITY PLAN
SHEET 1 OF 2

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R---- REVISION C1
SHEET 1 OF 5

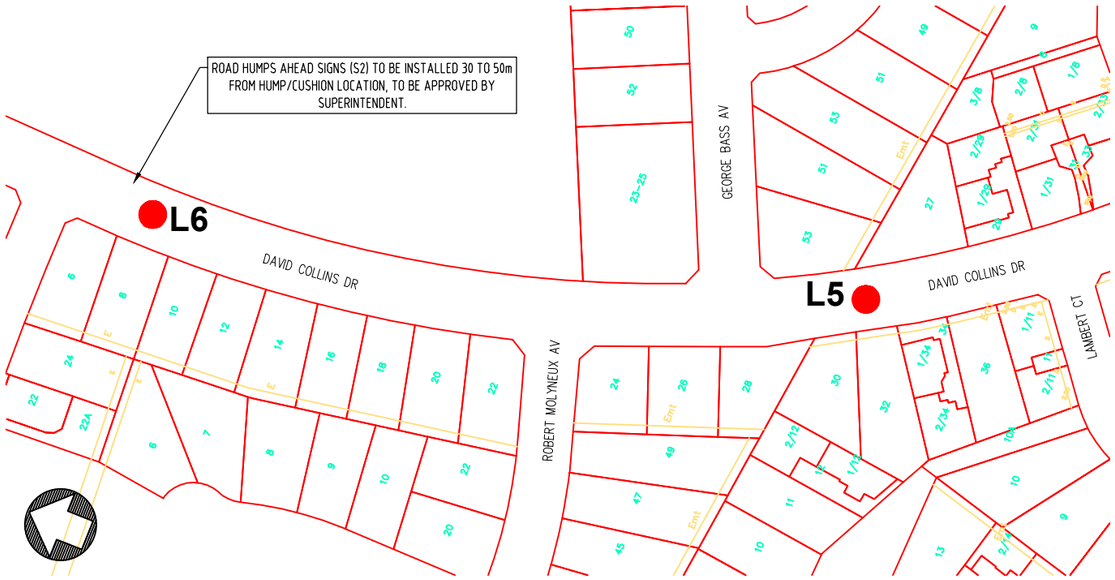
PLOTTED: 05 March, 2019 - 1:22 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\50348 David Collins Dr Flattop\ David Collins Dr Rev A.dwg

LOCAL AREA TRAFFIC MANAGEMENT

DAVID COLLINS DR, ENDEAVOUR HILLS

LOCALITY PLAN

FLAT TOP HUMP LOCATIONS



LEGEND							
PROPOSED DRAINAGE	GAS MAIN —G—	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM		
PROPOSED DRAINAGE PITS	WATER MAIN —W—	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG		
EXISTING DRAINAGE	TELEPHONE U/G —T—	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE		
EXISTING DRAINAGE PITS	POWER U/G —E—	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO.		
PROPOSED KERB AND CHANNEL	POWER OVERHEAD —E(OH)— E(OH)—	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO.		
EXISTING KERB AND CHANNEL	SEWER MAIN —S—	POWER PIT	HOUSE DRAIN --H--	TREE STUMP	PIT NO.		

AMENDMENTS			
DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: 1 :
COORD. SYS.:	
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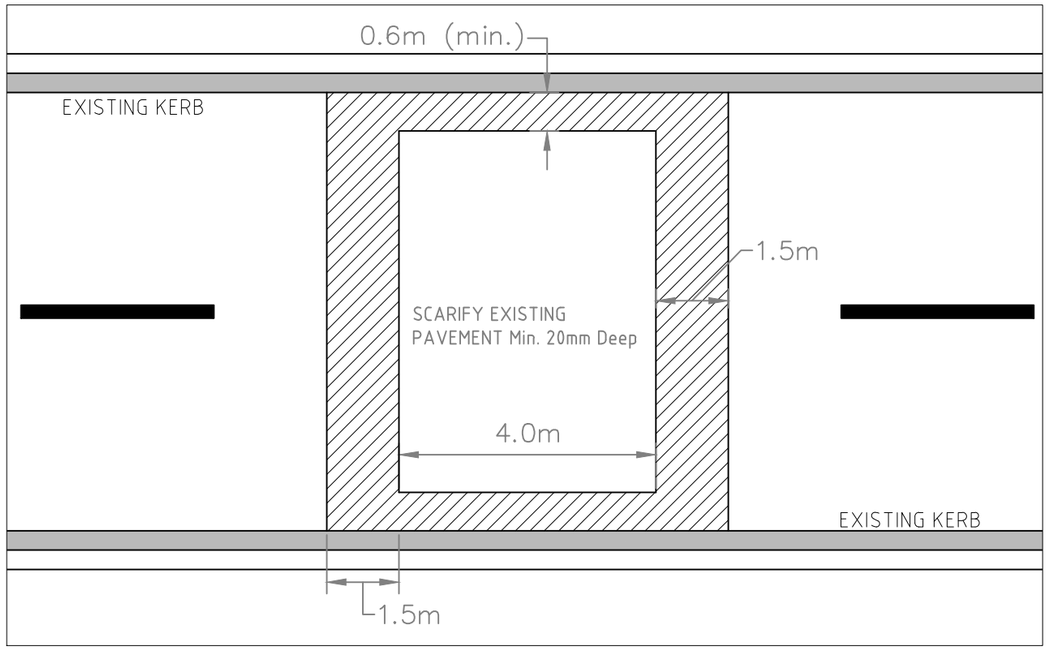
BRIEF NO.	CONTRACT NO.

CITY OF CASEY

DAVID COLLINS DR, ENDEAVOUR HILLS
PROPOSED FLAT TOP SPEED HUMP
GENERAL NOTS, FACE SHEET & LOCALITY PLAN
SHEET 2 OF 2

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R---- REVISION
C1
SHEET 2 OF 5

PLOTTED: 05 March, 2019 - 1:23 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\50348 David Collins Dr Flattop\ David Collins Dr Rev A.dwg



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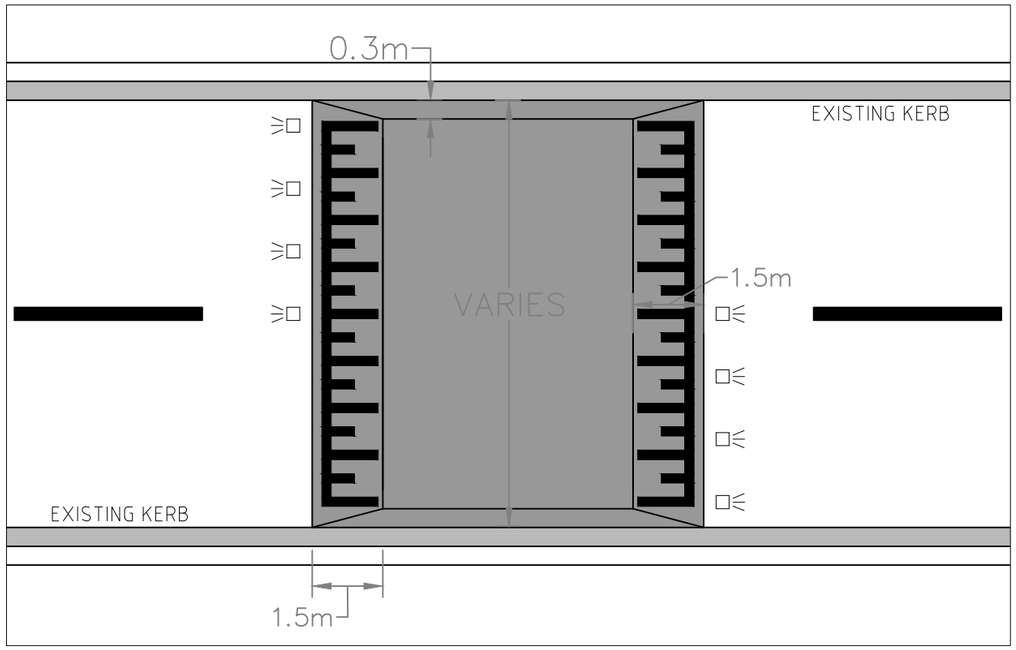

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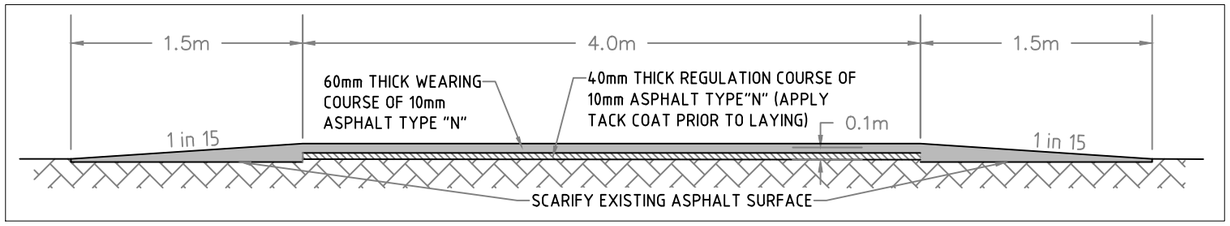

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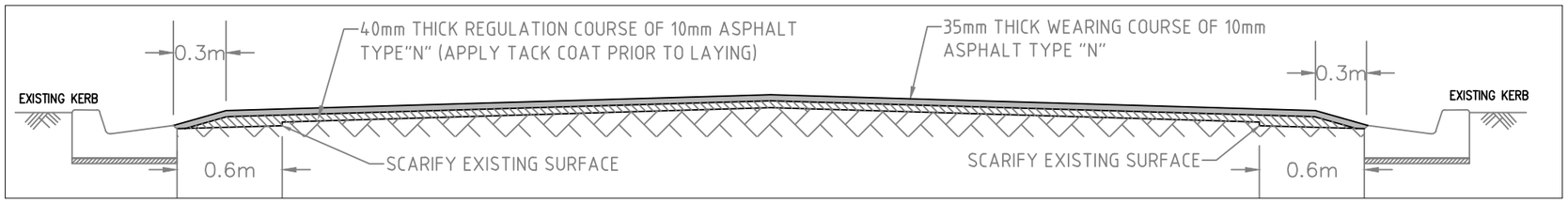

SECTION B-B

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WARNING
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FOR DISCUSSION

City of Casey

LEGEND

PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE		PSM	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE		TITLE PEG	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		THICKENED PATH		NATURAL SURFACE	+
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX	T	TREE		HOUSE NO.	26
PROPOSED KERB AND CHANNEL		POWER OVERHEAD	E(OH) E(OH)	LIGHT POLE		GAS VALVE		TREE REMOVAL		LOT/LP NO.	65
EXISTING KERB AND CHANNEL		SEWER MAIN	S	POWER PIT		HOUSE DRAIN	H	TREE STUMP		PIT NO.	5.2

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.
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JOB NO.
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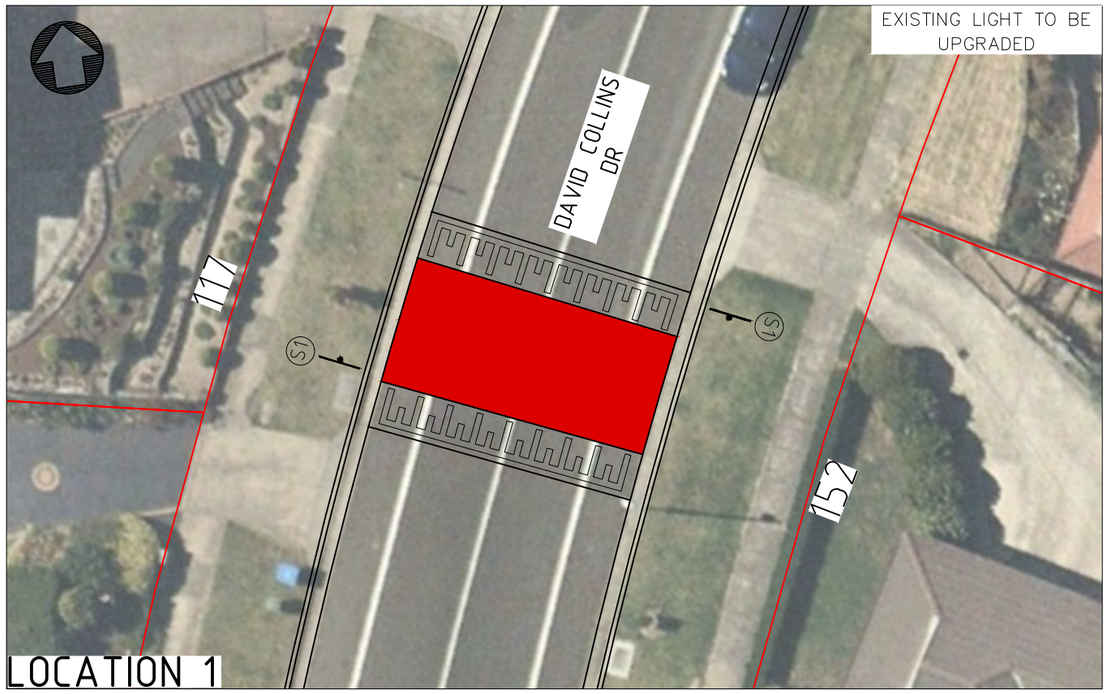
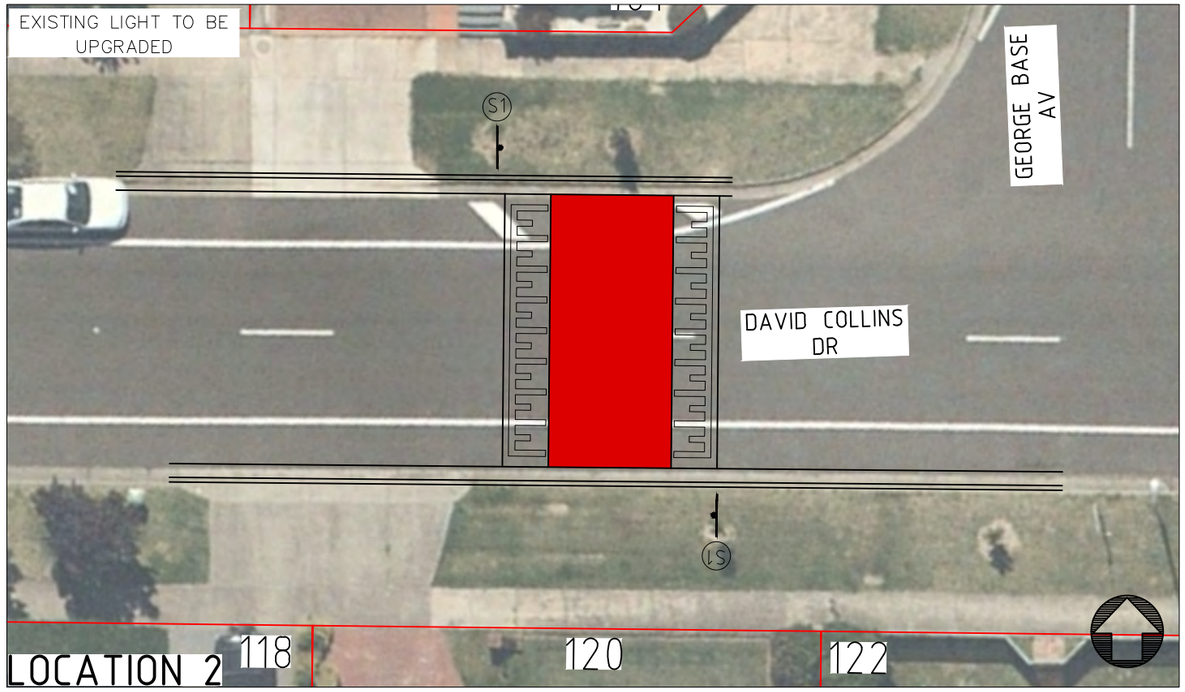
CITY OF CASEY

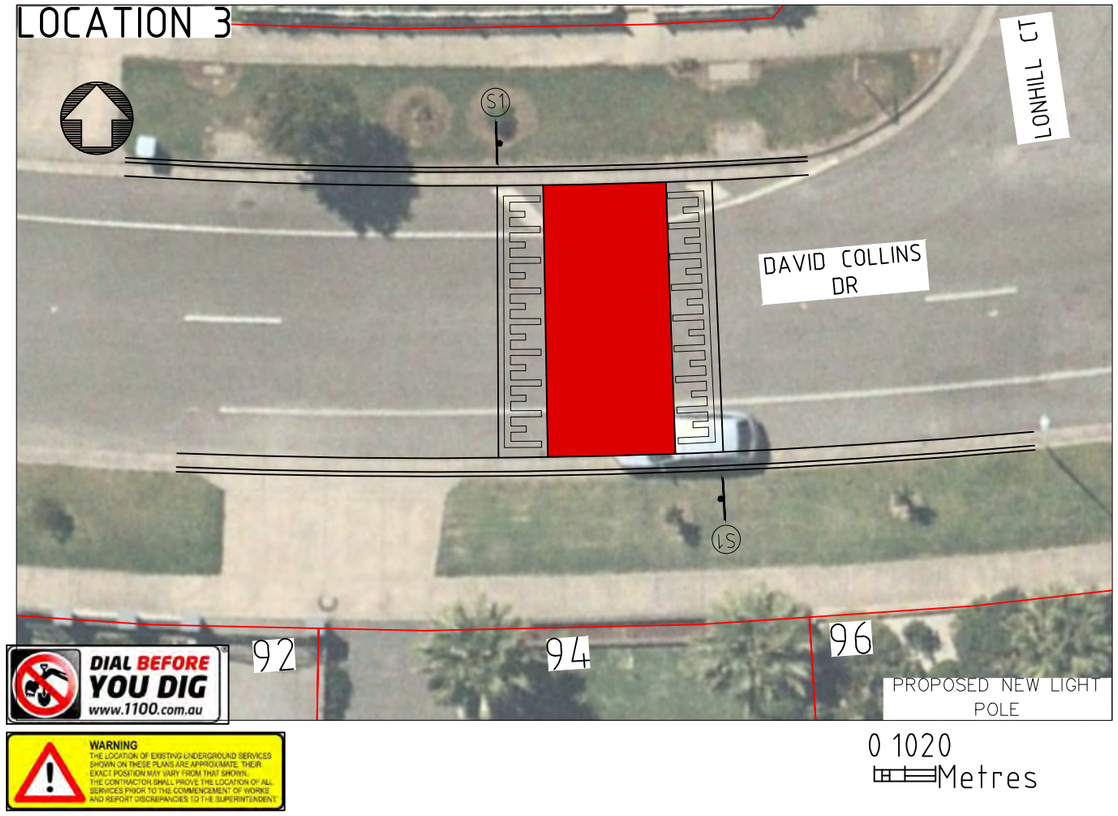
DAVID COLLINS DR, ENDEAVOUR HILLS
PROPOSED FLAT TOP SPEED HUMP
TYPICAL DETAIL
SHEET 1 OF 1

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R---- REVISION
C1
SHEET 3 OF 5

PLOTTED: 05 March, 2019 - 1:23 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\50348 David Collins Dr Flattop\ David Collins Dr Rev A.dwg







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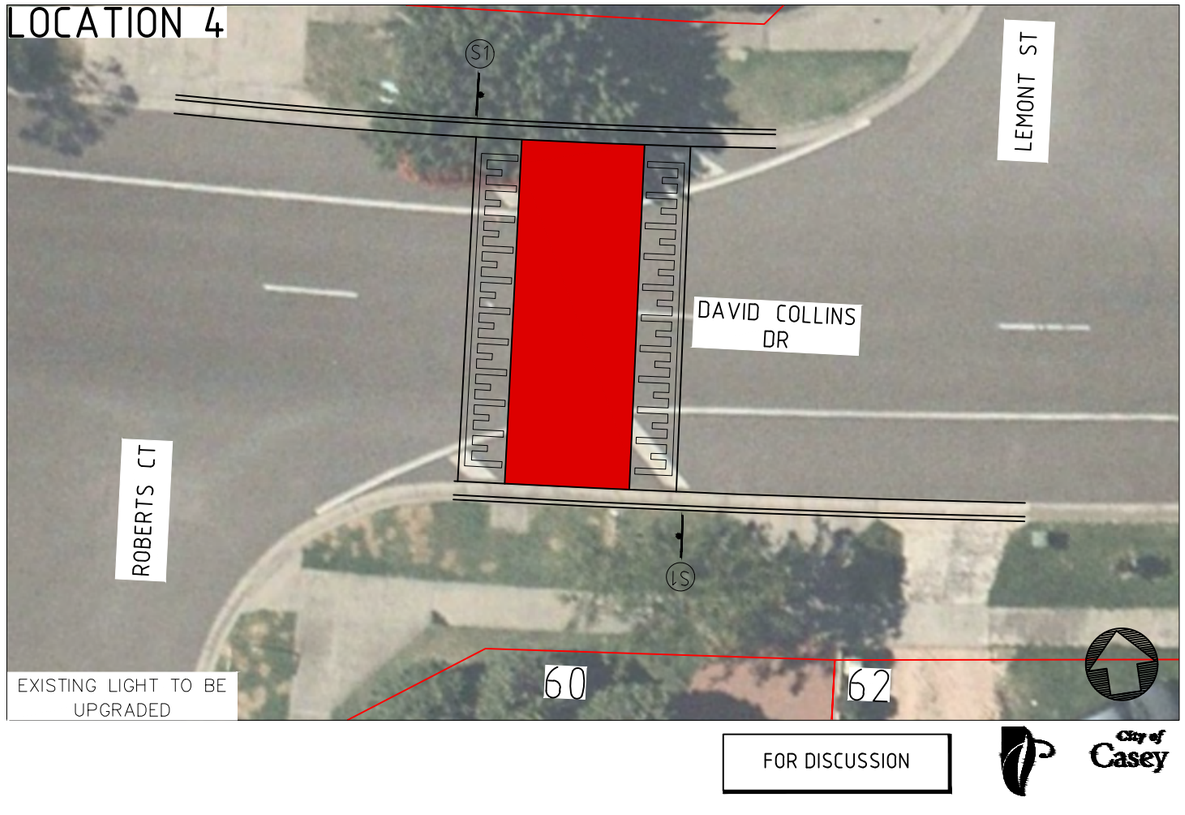

FOR DISCUSSION

City of Casey

LEGEND

PROPOSED DRAINAGE	GAS MAIN	G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM			
PROPOSED DRAINAGE PITS	WATER MAIN	W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG			
EXISTING DRAINAGE	TELEPHONE U/G	T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE			
EXISTING DRAINAGE PITS	POWER U/G	E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO.	25		
PROPOSED KERB AND CHANNEL	POWER OVERHEAD E(OH)	E(OH)	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO.	65		
EXISTING KERB AND CHANNEL	SEWER MAIN	S	POWER PIT	HOUSE DRAIN --H--	TREE STUMP	PIT NO.	32		

AMENDMENTS

DATE	REMARKS	REV	APP

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CERTIFIED
BRIEF NO.

SCALE: 1 :
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DWG.FILENAME
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MELWAY REF.
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CITY OF CASEY

DAVID COLLINS DR, ENDEAVOUR HILLS
PROPOSED FLAT TOP SPEED HUMP
LAYOUT PLAN
SHEET 1 OF 2

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R---- REVISION
C1
SHEET 4 OF 5

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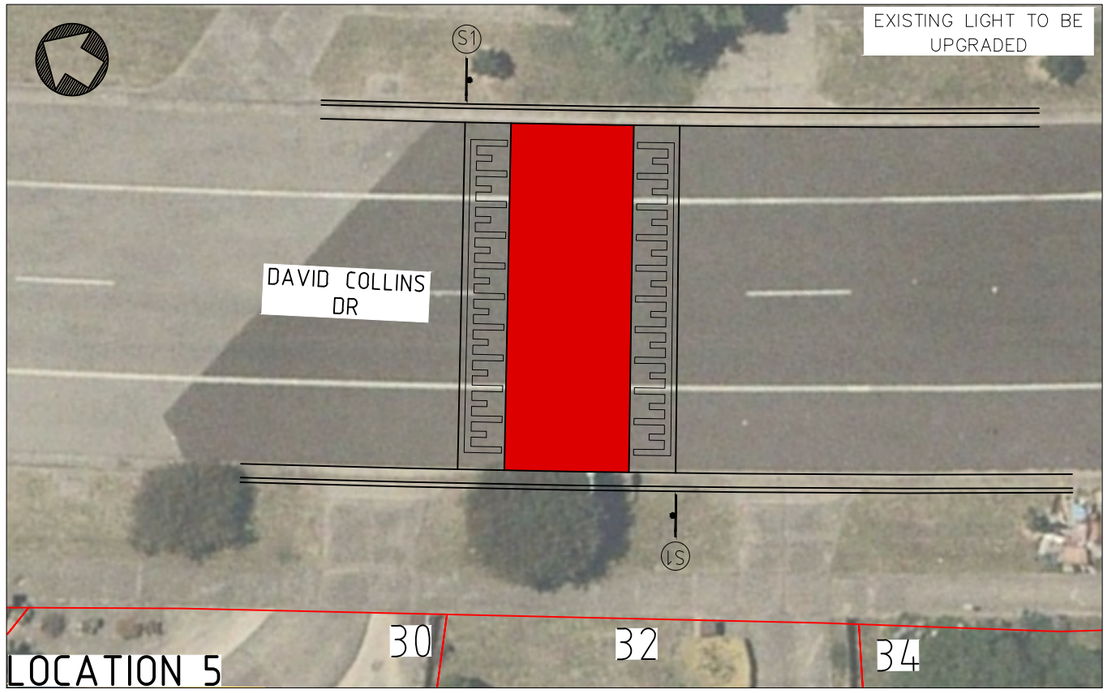
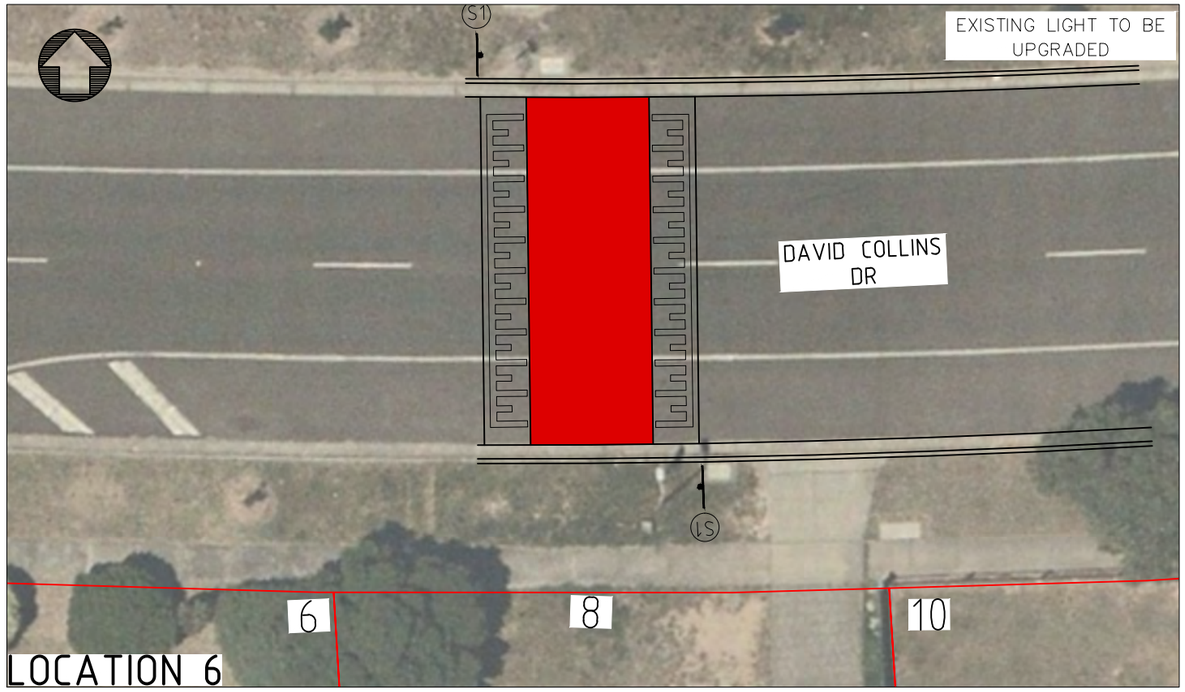
Ordinary Meeting - 16 July 2019





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0 10 20 Metres

FOR DISCUSSION

City of Casey

LEGEND

PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE		PSM	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE		TITLE PEG	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		THICKENED PATH		NATURAL SURFACE	+
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX	T	TREE		HOUSE NO.	26
PROPOSED KERB AND CHANNEL		POWER OVERHEAD	E(OH) E(OH)	LIGHT POLE		GAS VALVE		TREE REMOVAL		LOT/LP NO.	65
EXISTING KERB AND CHANNEL		SEWER MAIN	S	POWER PIT		HOUSE DRAIN	H	TREE STUMP		PIT NO.	5.2

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.

COORD. SYS.:

SCALE: 1 :

SURVEY

DESIGN IH

CHECKED

CERTIFIED

BRIEF NO.

JOB NO.

DWG.FILENAME

REG. FILE NO.

MELWAY REF.

CONTRACT NO.

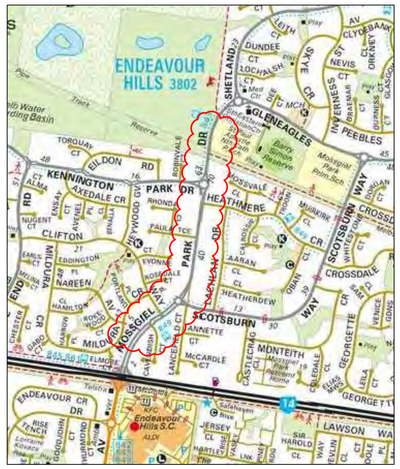
CITY OF CASEY

DAVID COLLINS DR, ENDEAVOUR HILLS
PROPOSED FLAT TOP SPEED HUMP
LAYOUT PLAN
SHEET 2 OF 2

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R---- REVISION
C1
SHEET 5 OF 5

PLOTTED: 05 March, 2019 - 1:23 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\50348 David Collins Dr Flattop\ David Collins Dr Rev A.dwg

LOCAL AREA TRAFFIC MANAGEMENT
MOSSGIEL PARK DRIVE, ENDEAVOUR HILLS



LOCATION PLAN

MELWAY – 91 D3

SHEET INDEX

R5227 - 01	LOCALITY PLAN, SHEET INDEX, SIGNAGE DETAIL & NOTES (SHEET 1 OF 5)
R5227 - 02	FLAT TOP HUMP CONSTRUCTION DETAILS (SHEET 2 OF 5)
R5227 - 03	LAYOUT PLAN LOCATION 1 (SHEET 3 OF 5)
R5227 - 04	LAYOUT PLAN LOCATION 2 (SHEET 4 OF 5)
R5227 - 05	LAYOUT PLAN LOCATION 3 (SHEET 5 OF 5)

SIGNAGE LEGEND

S1 — W5-10A, W8-2A, 20 km/h

HUMP SIGNS TO BE INSTALLED ALIGNED WITH SPEED HUMP AT ALL LOCATIONS. (TO BE APPROVED BY SUPERINTENDENT)

S2 — W3-4A, W8-17-2A, NEXT 350m

ROAD HUMPS AHEAD SIGNS TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS SOUTH OF HUMP LOCATION).

S3 — CHANGED TRAFFIC CONDITIONS AHEAD

T1-23

- 2 NO CHANGED TRAFFIC CONDITIONS AHEAD TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS AT HUMP LOCATION).

NOTES:

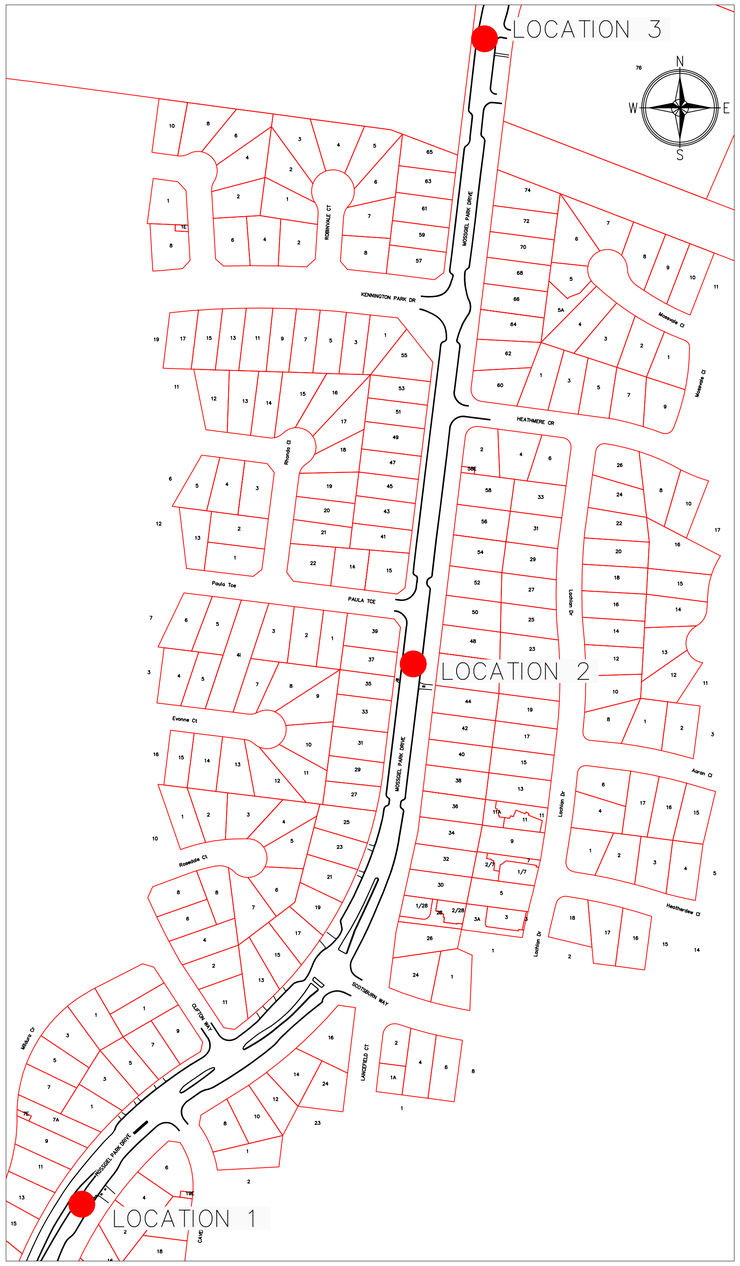
1. ALL DIMENSIONS IN METRES (UNLESS NOTED OTHERWISE)
2. SET-OUT IS TO CENTRE OF TREATMENT
3. ALL TBM AND TRAVERSE LINE SETOUT CO-ORDINATES ARE TO GDA94. LEVELS TO AHD
4. ALL WORK WITHIN ROAD RESERVE IS TO BE PERFORMED IN ACCORDANCE WITH AS 1742.3
5. ALL PIT LIDS, VALVE COVERS, ETC WITHIN THE WORK AREA ARE TO BE ADJUSTED TO SUIT THE NEW LEVELS
6. ALL SERVICE AUTHORITIES TO BE NOTIFIED AND RELEVANT PERMITS RECEIVED PRIOR TO THE COMMENCEMENT OF ANY WORKS
7. ALL SIGNS AND ROAD FURNITURE AFFECTED BY WORKS ARE TO BE REMOVED & REINSTATE FOLLOWING COMPLETION OF CONSTRUCTION WORKS
8. ALL AREAS SURROUNDING WORKS TO BE TRIMMED/INFILLED TO MATCH FINISHED SURFACE LEVELS
9. ALL SERVICES TO BE PROVEN ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS
10. ALL ROAD CONSTRUCTION MATERIALS TO BE IN ACCORDANCE WITH THE SPECIFICATION
11. ALL SIGNAGE AND LINEMARKING TO BE INSTALLED AS PER AS1742
12. ALL PUBLIC LIGHTING WORKS TO BE DONE BY OTHERS

DIAL BEFORE YOU DIG
www.1100.com.au

WARNING
ALL SERVICES SHOWN ON THIS DRAWING ARE APPROXIMATE ONLY AND EXACT LOCATION ID TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORKS

WARNING
BEWARE OF EXISTING OVERHEAD POWERLINES IN AREA

CONSULTATION



LOCALITY PLAN

FLAT TOP HUMP LOCATIONS

City of Casey

LEGEND

PROPOSED DRAINAGE	GAS MAIN	G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM			
PROPOSED DRAINAGE PITS	WATER MAIN	W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG			
EXISTING DRAINAGE	TELEPHONE U/G	T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE			
EXISTING DRAINAGE PITS	POWER U/G	E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO.	25		
PROPOSED KERB AND CHANNEL	POWER OVERHEAD	E(OH) E(OH)	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO.	65		
EXISTING KERB AND CHANNEL	SEWER MAIN	S	POWER PIT	HOUSE DRAIN	TREE STUMP	PIT NO.	52		

AMENDMENTS

DATE	REMARKS	REV	APP

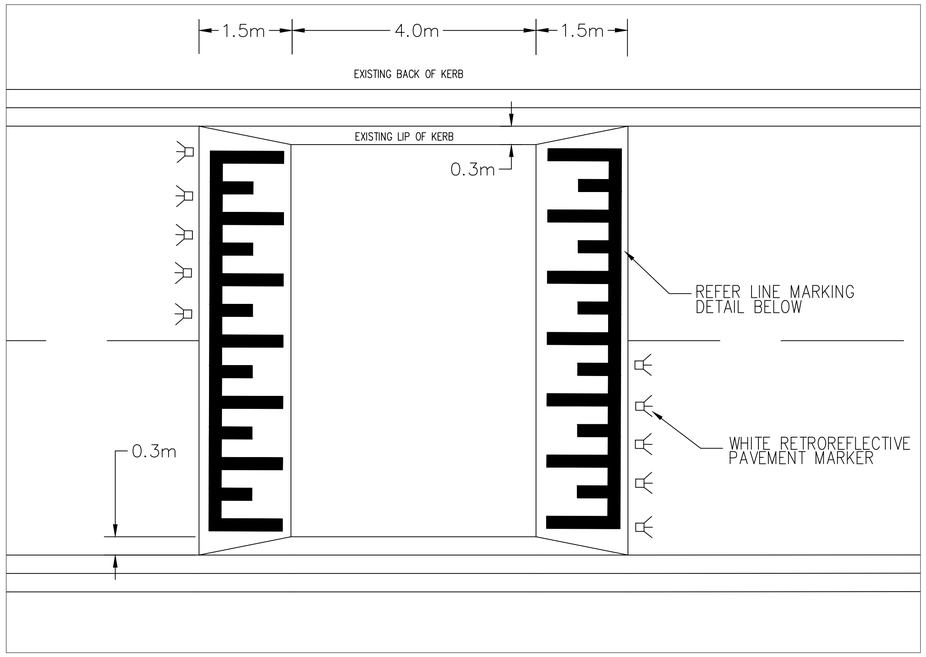
DATUM: A.H.D.	SCALE: AS SHOWN
COORD. SYS.:	
SURVEY	JOB NO.
DESIGN DP	DWG.FILENAME
CHECKED	REG. FILE NO.
CERTIFIED	MELWAY REF.91 D3
BRIEF NO.	CONTRACT NO.

CITY OF CASEY

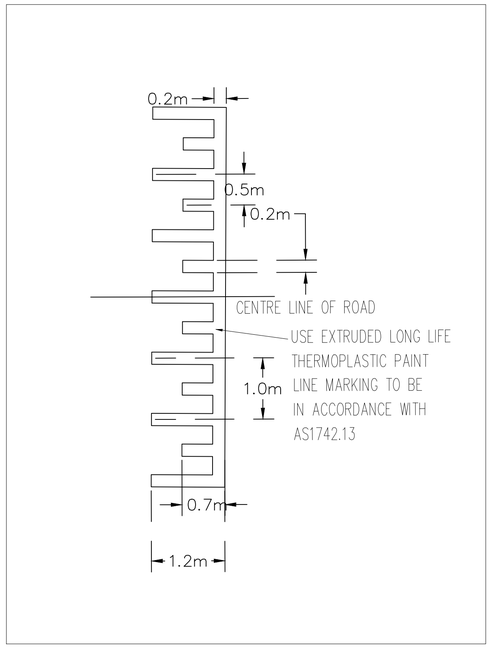
LOCAL AREA TRAFFIC MANAGEMENT
MOSSGIEL PARK DRIVE, ENDEAVOUR HILLS
LOCALITY PLAN, SHEET INDEX, SIGNAGE DETAILS & NOTES
SHEET 1 OF 5

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 16.01.2019
R5227 REVISION –
SHEET 1 OF 5

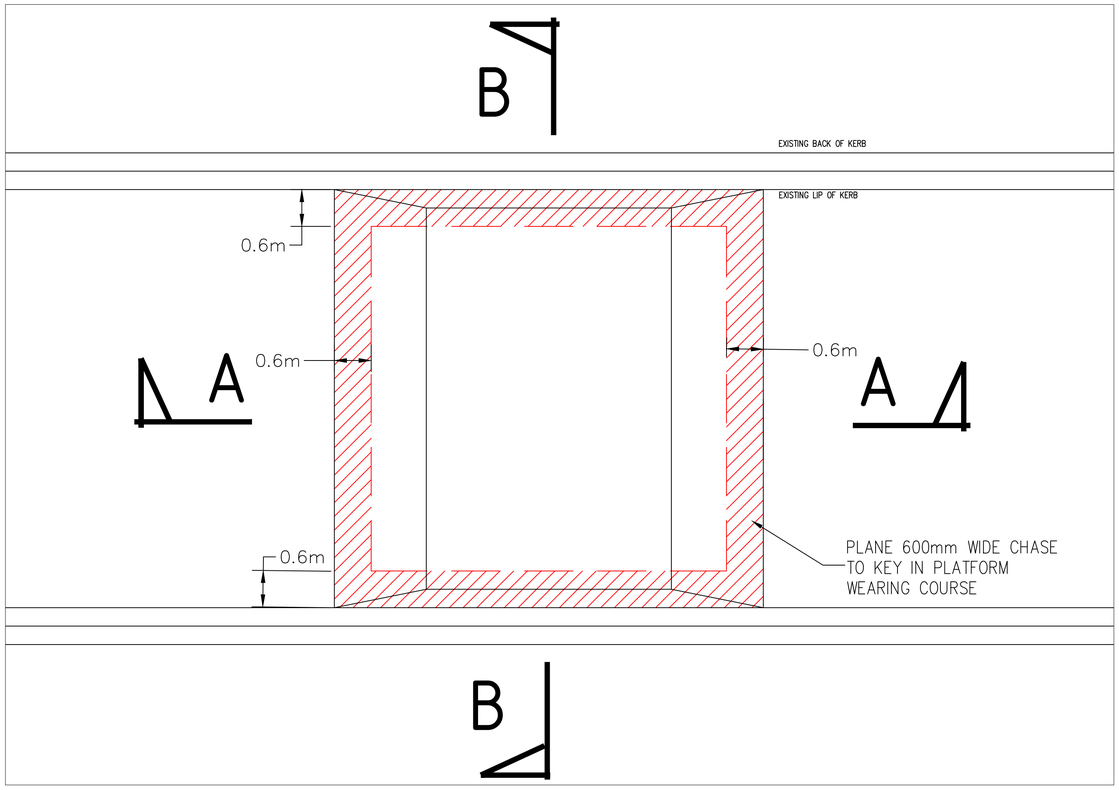
PLOTTED: 16 January, 2019 - 2:35 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\S0340 Mossgiel Park Drive LATM\Design & Estimate\ 190115 Mossgiel Park Dr LATM.dwg



PLAN



LINEMARKING DETAIL



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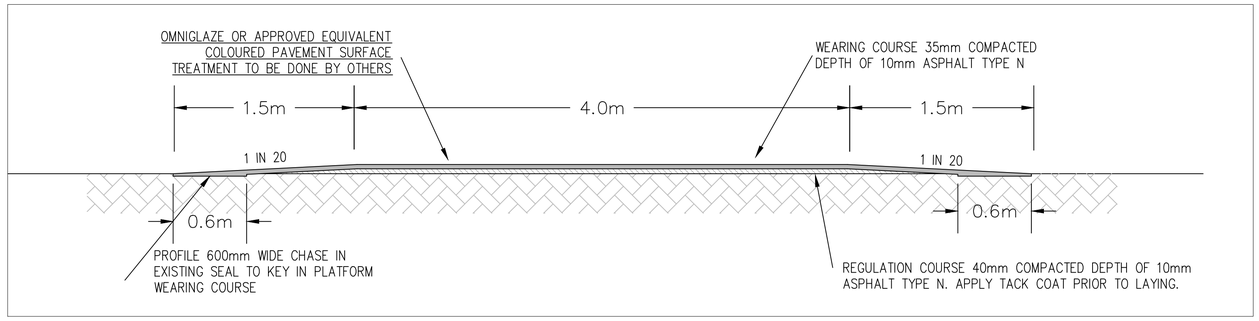
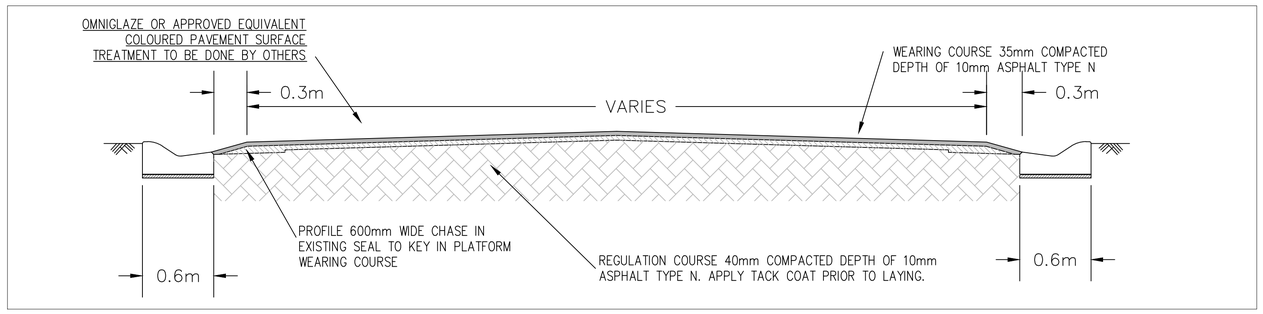


SECTION A-A



SECTION B-B

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE		PSM	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE		TITLE PEG	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		THICKENED PATH		NATURAL SURFACE	
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX	T	TREE		HOUSE NO.	25
PROPOSED KERB AND CHANNEL		POWER OVERHEAD	E(OH) E(OH)	LIGHT POLE		GAS VALVE		TREE REMOVAL		LOT/LP NO.	65
EXISTING KERB AND CHANNEL		SEWER MAIN	S	POWER PIT		HOUSE DRAIN	H	TREE STUMP		PIT NO.	5.2

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM:	A.H.D.
COORD. SYS.:	
SCALE:	AS SHOWN
SURVEY	
JOB NO.	
DESIGN	DP
DWG.FILENAME	
CHECKED	
REG. FILE NO.	
CERTIFIED	
MELWAY REF.91	D3
BRIEF NO.	
CONTRACT NO.	

CITY OF CASEY

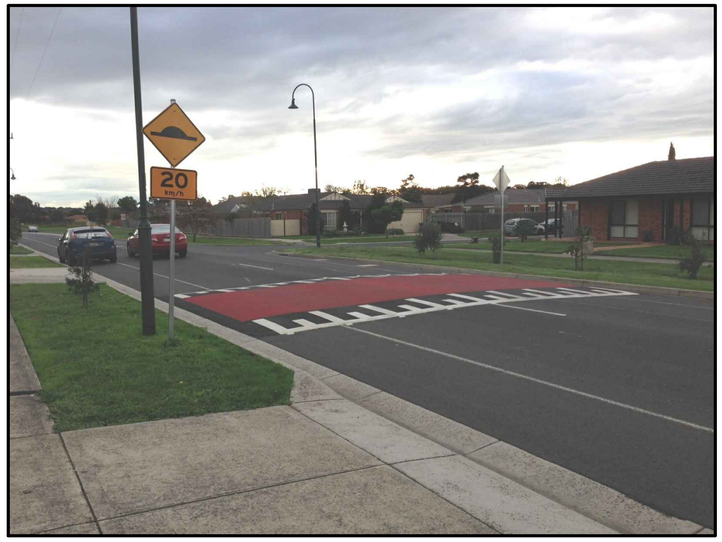
LOCAL AREA TRAFFIC MANAGEMENT
MOSSGIEL PARK DRIVE, ENDEAVOUR HILLS
DETAILS
SHEET 2 OF 5

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R5227
REVISION –
SHEET 2 OF 5

PLOTTED: 18 February, 2019 - 3:20 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\50340 Mossgiel Park Drive LATM\Design & Estimate\ 190115 Mossgiel Park Dr LATM.dwg

LOCATION 1

0 5 10 Meters



EXAMPLE FLAT TOP

S1 — W5-10A — 20 km/h — W8-2A

HUMP SIGNS TO BE INSTALLED ALIGNED WITH SPEED HUMP AT ALL LOCATIONS. (TO BE APPROVED BY SUPERINTENDENT)

S2 — W3-4A — NEXT 350m — W8-17-2A

ROAD HUMPS AHEAD SIGNS TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS SOUTH OF HUMP LOCATION).

S3 — CHANGED TRAFFIC CONDITIONS AHEAD — T1-23

- 2 NO CHANGED TRAFFIC CONDITIONS AHEAD TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS AT HUMP LOCATION).

SIGNAGE LEGEND

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE	GAS MAIN — G —	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM
PROPOSED DRAINAGE PITS	WATER MAIN — W —	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG
EXISTING DRAINAGE	TELEPHONE U/G — T —	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE
EXISTING DRAINAGE PITS	POWER U/G — E —	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO. 25
PROPOSED KERB AND CHANNEL	POWER OVERHEAD — E(OH) — E(OH) —	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO. 65
EXISTING KERB AND CHANNEL	SEWER MAIN — S —	POWER PIT	HOUSE DRAIN — H —	TREE STUMP	PIT NO. S.2

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: AS SHOWN
COORD. SYS.:	
SURVEY	JOB NO.
DESIGN DP	DWG.FILENAME
CHECKED	REG. FILE NO.
CERTIFIED	MELWAY REF.91 D3
BRIEF NO.	CONTRACT NO.

CITY OF CASEY

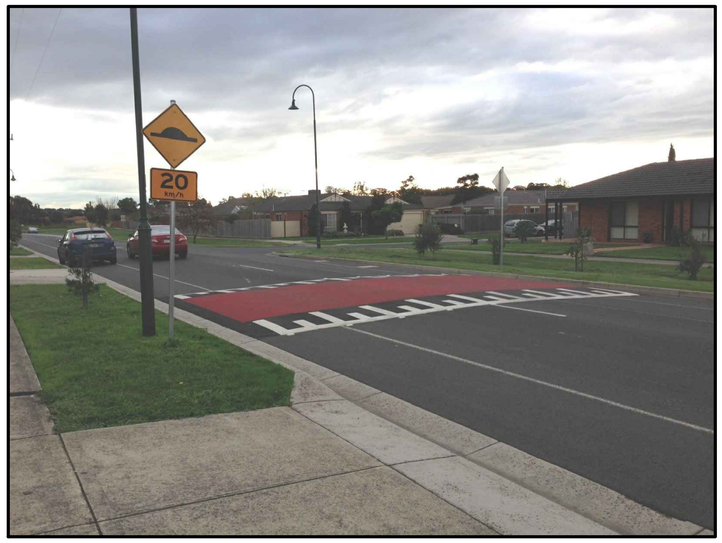
LOCAL AREA TRAFFIC MANAGEMENT
MOSSGIEL PARK DRIVE, ENDEAVOUR HILLS
LOCATION 1 LAYOUT PLAN
SHEET 3 OF 5

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R5227 REVISION –
SHEET 3 OF 5

PLOTTED: 18 February, 2019 - 3:23 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\S03&0 Mossgiel Park Drive LATM\Design & Estimate\190115 Mossgiel Park Dr LATM.dwg

LOCATION 2

0 5 10 Meters



EXAMPLE FLAT TOP

S1 — W5-10A, W8-2A — 20 km/h

HUMP SIGNS TO BE INSTALLED ALIGNED WITH SPEED HUMP AT ALL LOCATIONS. (TO BE APPROVED BY SUPERINTENDENT)

S2 — W3-4A, W8-17-2A — NEXT 350m

ROAD HUMPS AHEAD SIGNS TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS SOUTH OF HUMP LOCATION).

S3 — CHANGED TRAFFIC CONDITIONS AHEAD — *T1-23*

- 2 NO CHANGED TRAFFIC CONDITIONS AHEAD TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS AT HUMP LOCATION).

SIGNAGE LEGEND

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE		PSM	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE		TITLE PEG	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		THICKENED PATH		NATURAL SURFACE	+
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX	T	TREE		HOUSE NO.	25
PROPOSED KERB AND CHANNEL		POWER OVERHEAD	E(OH) E(OH)	LIGHT POLE		GAS VALVE		TREE REMOVAL		LOT/LP NO.	65
EXISTING KERB AND CHANNEL		SEWER MAIN	S	POWER PIT		HOUSE DRAIN	H	TREE STUMP		PIT NO.	52

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: AS SHOWN
COORD. SYS.:	
SURVEY	JOB NO.
DESIGN DP	DWG.FILENAME
CHECKED	REG. FILE NO.
CERTIFIED	MELWAY REF.91 D3
BRIEF NO.	CONTRACT NO.

CITY OF CASEY

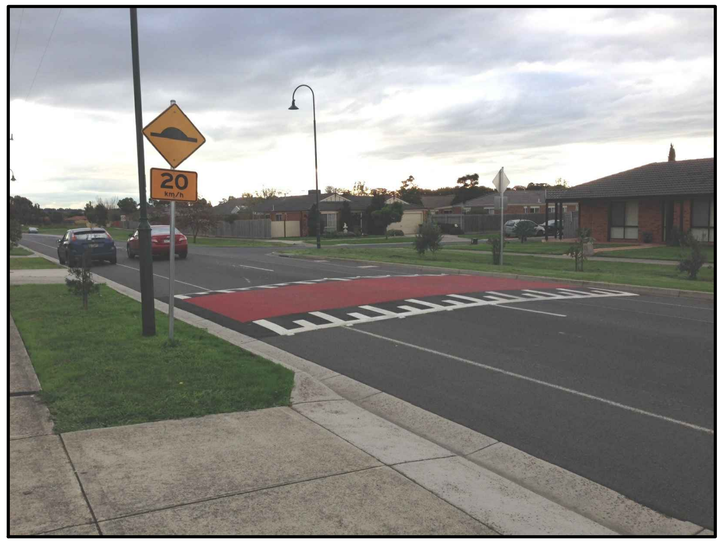
LOCAL AREA TRAFFIC MANAGEMENT
MOSSGIEL PARK DRIVE, ENDEAVOUR HILLS
LOCATION 2 LAYOUT PLAN
SHEET 3 OF 5

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R5227 REVISION –
SHEET 3 OF 5

PLOTTED: 18 February, 2019 - 3:23 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\50340 Mossgiel Park Drive LATM\Design & Estimate\ 190115 Mossgiel Park Dr LATM.dwg

LOCATION 3

0 5 10 Meters



EXAMPLE FLAT TOP

S1 — W5-10A, W8-2A — 20 km/h

HUMP SIGNS TO BE INSTALLED ALIGNED WITH SPEED HUMP AT ALL LOCATIONS. (TO BE APPROVED BY SUPERINTENDENT)

S2 — W3-4A, W8-17-2A — NEXT 350m

ROAD HUMPS AHEAD SIGNS TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS SOUTH OF HUMP LOCATION).

S3 — CHANGED TRAFFIC CONDITIONS AHEAD — T1-23

- 2 NO CHANGED TRAFFIC CONDITIONS AHEAD TO BE INSTALLED 50M NORTH OF HUMP. (RELOCATE EXISTING SIGNS AT HUMP LOCATION).

SIGNAGE LEGEND

CONSULTATION

City of Casey

LEGEND

PROPOSED DRAINAGE	GAS MAIN — G —	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM		
PROPOSED DRAINAGE PITS	WATER MAIN — W —	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG		
EXISTING DRAINAGE	TELEPHONE U/G — T —	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE		
EXISTING DRAINAGE PITS	POWER U/G — E —	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO.	25	
PROPOSED KERB AND CHANNEL	POWER OVERHEAD — E(OH) — E(OH) —	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO.	65	
EXISTING KERB AND CHANNEL	SEWER MAIN — S —	POWER PIT	HOUSE DRAIN — H —	TREE STUMP	PIT NO.	S3	

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: AS SHOWN
COORD. SYS.:	
SURVEY	JOB NO.
DESIGN DP	DWG.FILENAME
CHECKED	REG. FILE NO.
CERTIFIED	MELWAY REF.91 D3
BRIEF NO.	CONTRACT NO.

CITY OF CASEY

LOCAL AREA TRAFFIC MANAGEMENT
MOSSGIEL PARK DRIVE, ENDEAVOUR HILLS
LOCATION 3 LAYOUT PLAN
SHEET 3 OF 5

MANAGER ENGINEERING & ENVIRONMENTAL SERVICES
DATE: 18.02.2019
R5227 REVISION –
SHEET 3 OF 5

PLOTTED: 18 February, 2019 - 3:24 PM G:\Design\Scoped Projects, Referrals & Tech. Advice\S0340 Mossgiel Park Drive LATM\Design & Estimate\ 190115 Mossgiel Park Dr LATM.dwg

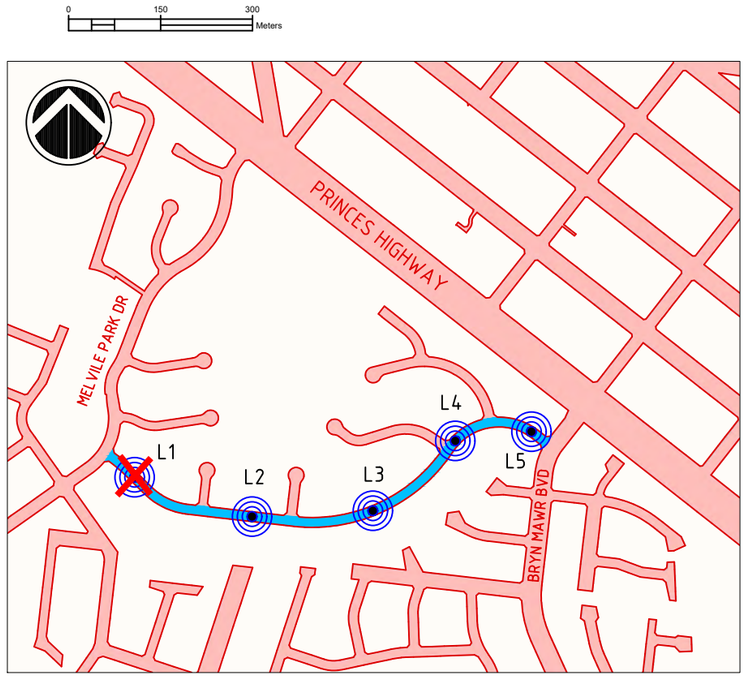
LOCAL TRAFFIC MANAGEMENT SCHEME
EDRINGTON PARK DRIVE - BERWICK

NOTES:

1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE CONDITIONS OF CONTRACT, CURRENT CITY OF CASEY SPECIFICATIONS AND TO THE SATISFACTION OF THE CONTRACT SUPERINTENDENT.
2. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
3. THE LOCATIONS OF ALL EXISTING SERVICES SHOWN ON THESE PLANS ARE APPROXIMATE AND THEIR EXACT LOCATIONS MUST BE PROVEN ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCE OF ANY WORKS. ANY DISCREPANCIES MUST BE REPORTED TO THE SUPERINTENDENT.
4. WARNING - UNDERGROUND ELECTRICITY CABLES EXIST WITHIN THE SCOPE OF WORKS.
5. ANY DAMAGE CAUSED TO EXISTING SERVICES AND ANY COSTS ASSOCIATED WITH REPAIRS OR LOSS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
6. UNLESS SHOWN OTHERWISE, NO TREES SHALL BE REMOVED OR TRIMMED WITHOUT THE PRIOR CONSENT OF THE SUPERINTENDENT
7. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL RUBBISH AND SPOIL FROM THE SITE.
8. NO TOPSOIL SHALL BE REMOVED FROM SITE WITHOUT THE PRIOR CONSENT OF THE SUPERINTENDENT.
9. ALL NATURE STRIPS, VERGES, BATTERS AND DISTURBED AREAS MUST BE TOPSOILED WITH 75mm MINIMUM DEPTH OF APPROVED LOAM AND SOWN WITH SEED TO THE SATISFACTION OF THE SUPERINTENDENT.
10. THE CONTRACTOR MUST ERECT AND IS RESPONSIBLE FOR MAINTAINING ALL WORKSITE TRAFFIC MANAGEMENT SIGNS, WARNING SIGNS, SITE FENCING, BARRICADES, LIGHTS, SHORING, AND OTHER MEASURES NECESSARY TO KEEP THE WORK SITE SAFE AND TO PROTECT THE PUBLIC FROM THE WORKS.
11. 11. ALL LINEMARKING AND SIGNAGE MUST BE INSTALLED IN ACCORDANCE WITH AS 1742.1 AND AS 1742.2 UNLESS SHOWN OTHERWISE. LINEMARKING TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT.

SHEET INDEX:

C01	LOCALITY PLAN, NOTES AND SHEET INDEX
C02	LAYOUT PLAN 1 OF 3 - LOCATIONS 1 AND 2
C03	LAYOUT PLAN 2 OF 3 - LOCATIONS 3 AND 4
C04	LAYOUT PLAN 3 OF 3 - LOCATIONS 5 AND 6
C05	PLATFORM DETAILS AND SIGNAGE PLAN



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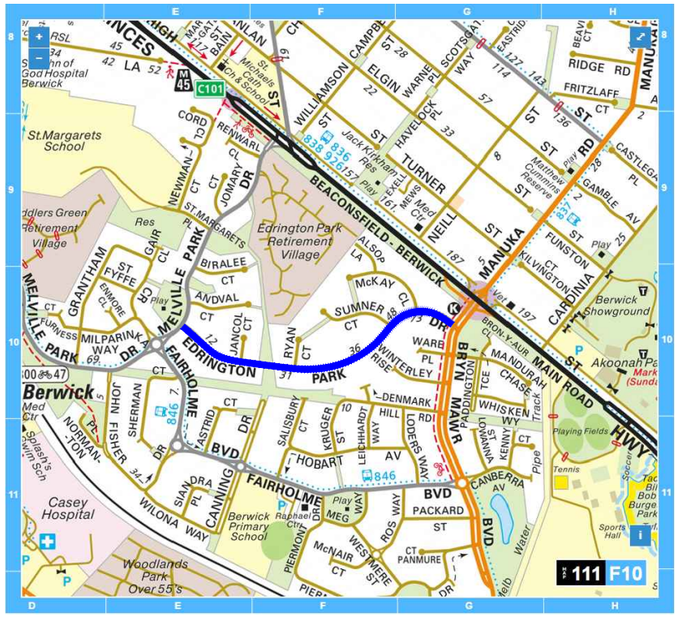

LOCATION OF WORKS: MELWAYS MAP 111 F10

EXAMPLE TREATMENT

City of Casey

PRELIMINARY

LEGEND

PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		THICKENED PATH	
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX		TREE	
PROPOSED KERB AND CHANNEL		POWER OVERHEAD	E	LIGHT POLE		GAS VALVE		TREE REMOVAL	
EXISTING KERB AND CHANNEL		SEWER MAIN	S	POWER PIT		HOUSE DRAIN		TREE STUMP	

CSM, TITLE PEG, NATURAL SURFACE, HOUSE NO. (25), LOT/LP NO. 65, PIT NO. <S.2>

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: AS SHOWN
COORD. SYS.: GDA94	
SURVEY -	JOB NO.
DESIGN S.HAMILTON	DWG.FILENAME P0.DWG
CHECKED -	REG. FILE NO.
CERTIFIED	MELWAY REF. 111 F10
BRIEF NO.	CONTRACT NO.

CITY OF CASEY

LOCAL TRAFFIC MANAGEMENT SCHEME
EDRINGTON PARK DRIVE, BERWICK
LOCALITY PLAN, NOTES AND SHEET INDEX

MANAGER CITY DESIGN AND CONSTRUCTION
DATE: 04.01.2019
REVISION: P0
SHEET: C01

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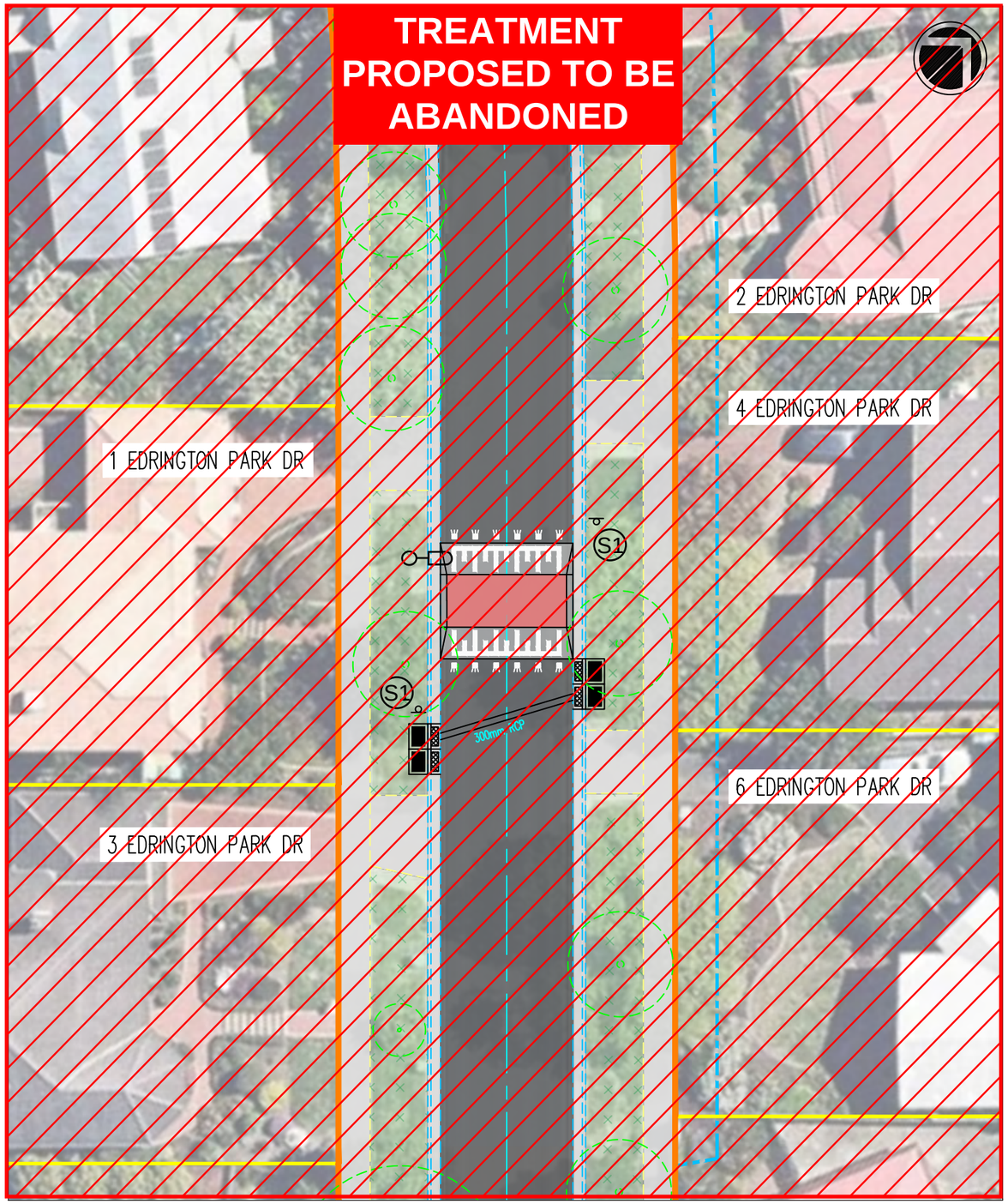

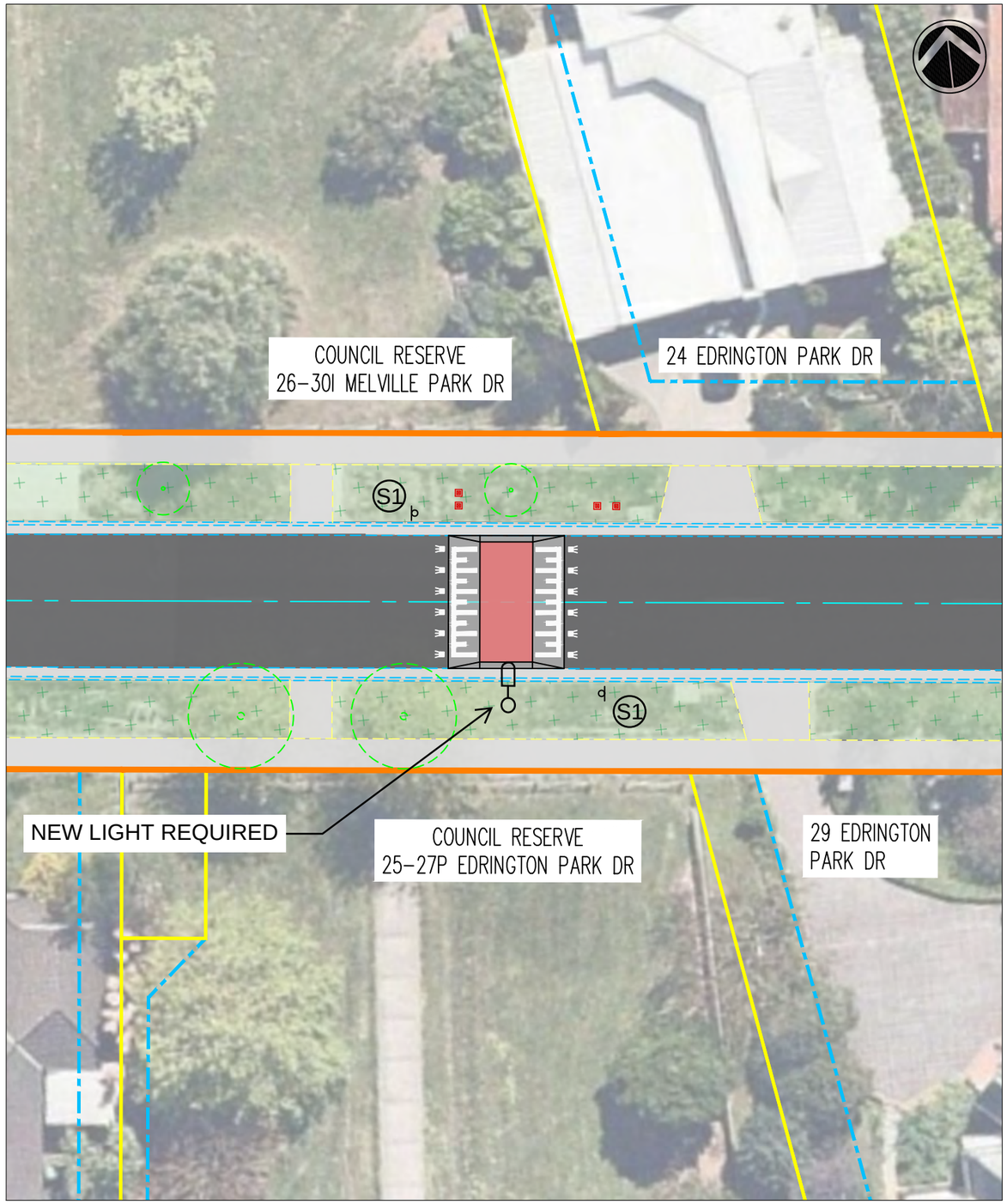

City of Casey

LOCATION 1 - LAYOUT PLAN
SCALE: 1:250

0 5 10 Meters

LOCATION 2 - LAYOUT PLAN
SCALE: 1:250

PRELIMINARY

LEGEND

PROPOSED DRAINAGE	GAS MAIN G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	CSM				
PROPOSED DRAINAGE PITS	WATER MAIN W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG				
EXISTING DRAINAGE	TELEPHONE U/G T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE				
EXISTING DRAINAGE PITS	POWER U/G E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO. (25)				
PROPOSED KERB AND CHANNEL	POWER OVERHEAD E	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO. 65				
EXISTING KERB AND CHANNEL	SEWER MAIN S	POWER PIT	HOUSE DRAIN -H-	TREE STUMP	PIT NO. <S2>				

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: AS SHOWN		
COORD. SYS.: GDA94			
SURVEY -	JOB NO.		
DESIGN S.HAMILTON	DWG.FILENAME P0.DWG		
CHECKED -	REG. FILE NO.		
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BRIEF NO.	CONTRACT NO.		

CITY OF CASEY

LOCAL TRAFFIC MANAGEMENT SCHEME
EDRINGTON PARK DRIVE, BERWICK
LAYOUT PLAN 1 OF 3
LOCATIONS 1 AND 2

MANAGER CITY DESIGN AND CONSTRUCTION
DATE: 04.01.2019
REVISION
-
C02 P0
SHEET

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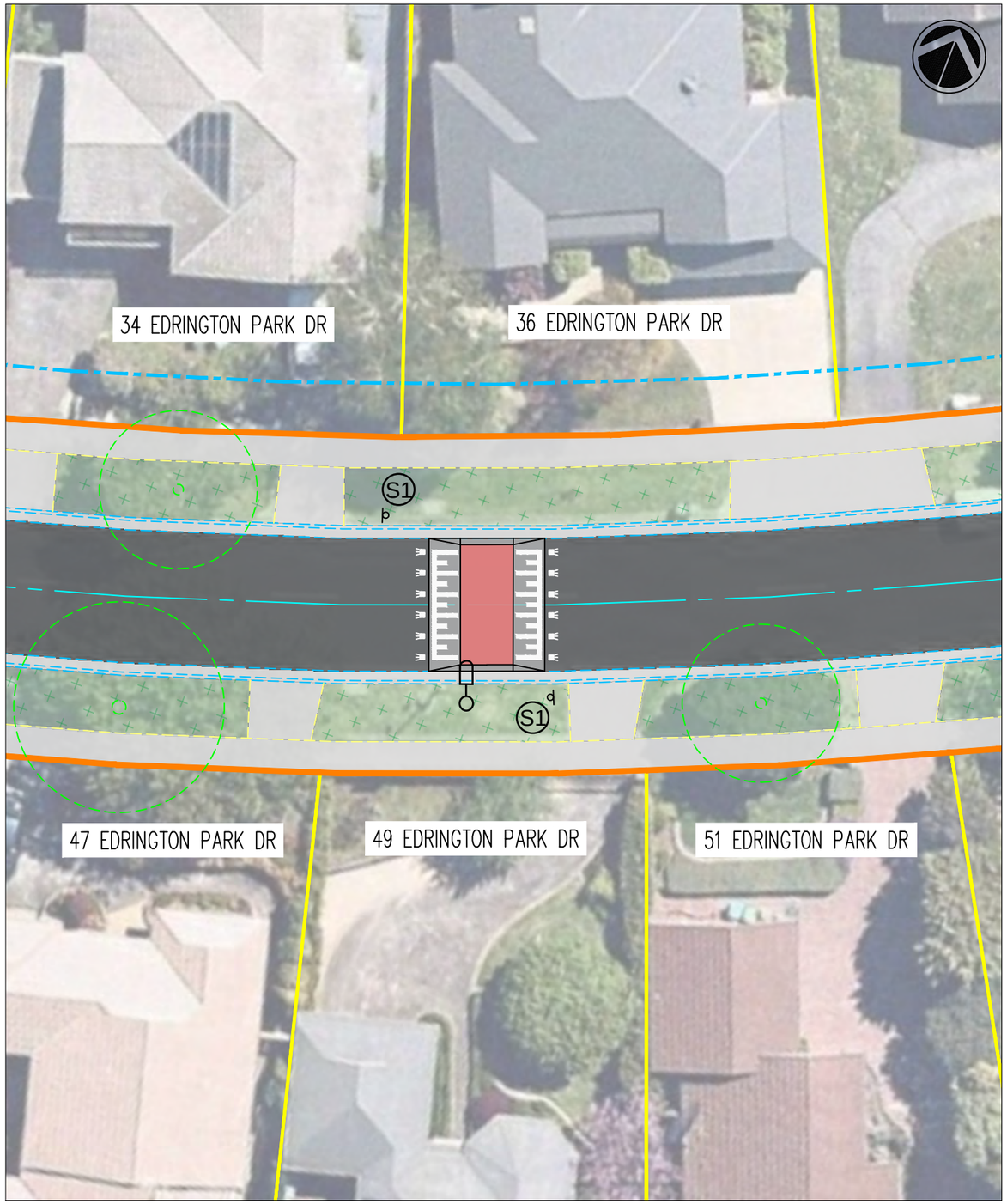
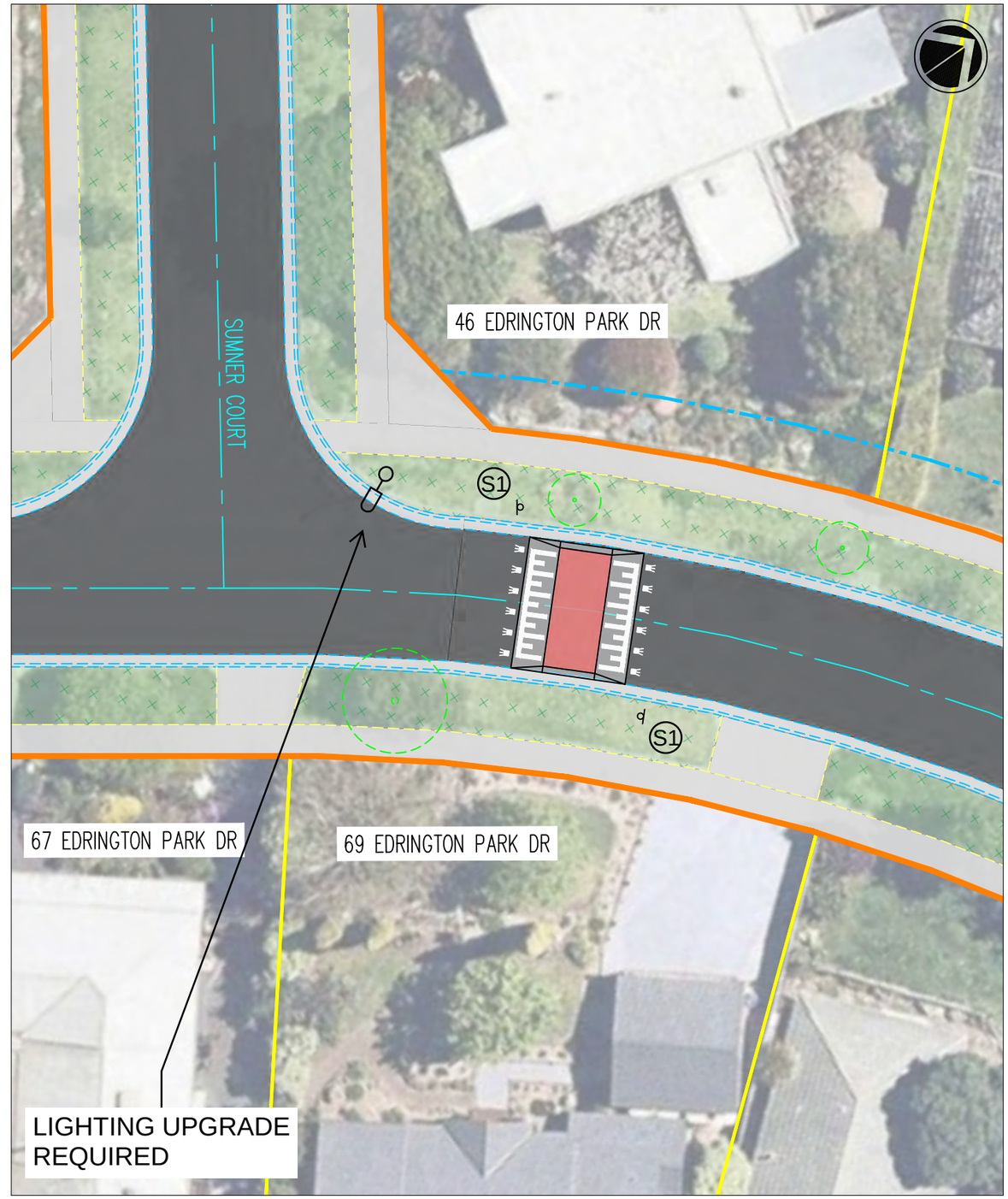


LOCATION 3 - LAYOUT PLAN

SCALE: 1:250



LOCATION 4 - LAYOUT PLAN

SCALE: 1:250

City of Casey

0 5 10 Meters

PRELIMINARY

LEGEND

PROPOSED DRAINAGE	GAS MAIN G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM				
PROPOSED DRAINAGE PITS	WATER MAIN W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG				
EXISTING DRAINAGE	TELEPHONE U/G T	FIRE HYDRANT	TELEPHONE POLE	TIMBERED PATH	NATURAL SURFACE				
EXISTING DRAINAGE PITS	POWER U/G E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO. (99)				
EXISTING KERB AND GUTTER	POWER OVERHEAD E	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO. 65				
EXISTING KERB AND GUTTER	SEWER MAIN S	POWER PIT	HOUSE DRAIN H	TREE STUMP	PIT NO. <S3>				

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM:	A.H.D.
COORD. SYS.:	GDA94
SURVEY	-
DESIGN	S.HAMILTON
CHECKED	-
CERTIFIED	
BRIEF NO.	

SCALE:	AS SHOWN
JOB NO.	
DWG.FILENAME	P0.DWG
REG. FILE NO.	
MELWAY REF.	111 F10
CONTRACT NO.	

CITY OF CASEY

LOCAL TRAFFIC MANAGEMENT SCHEME
EDRINGTON PARK DRIVE, BERWICK
LAYOUT PLAN 2 OF 3
LOCATIONS 3 AND 4

MANAGER CITY DESIGN AND CONSTRUCTION

DATE: 04.01.2019

REVISION: P0

SHEET: C03

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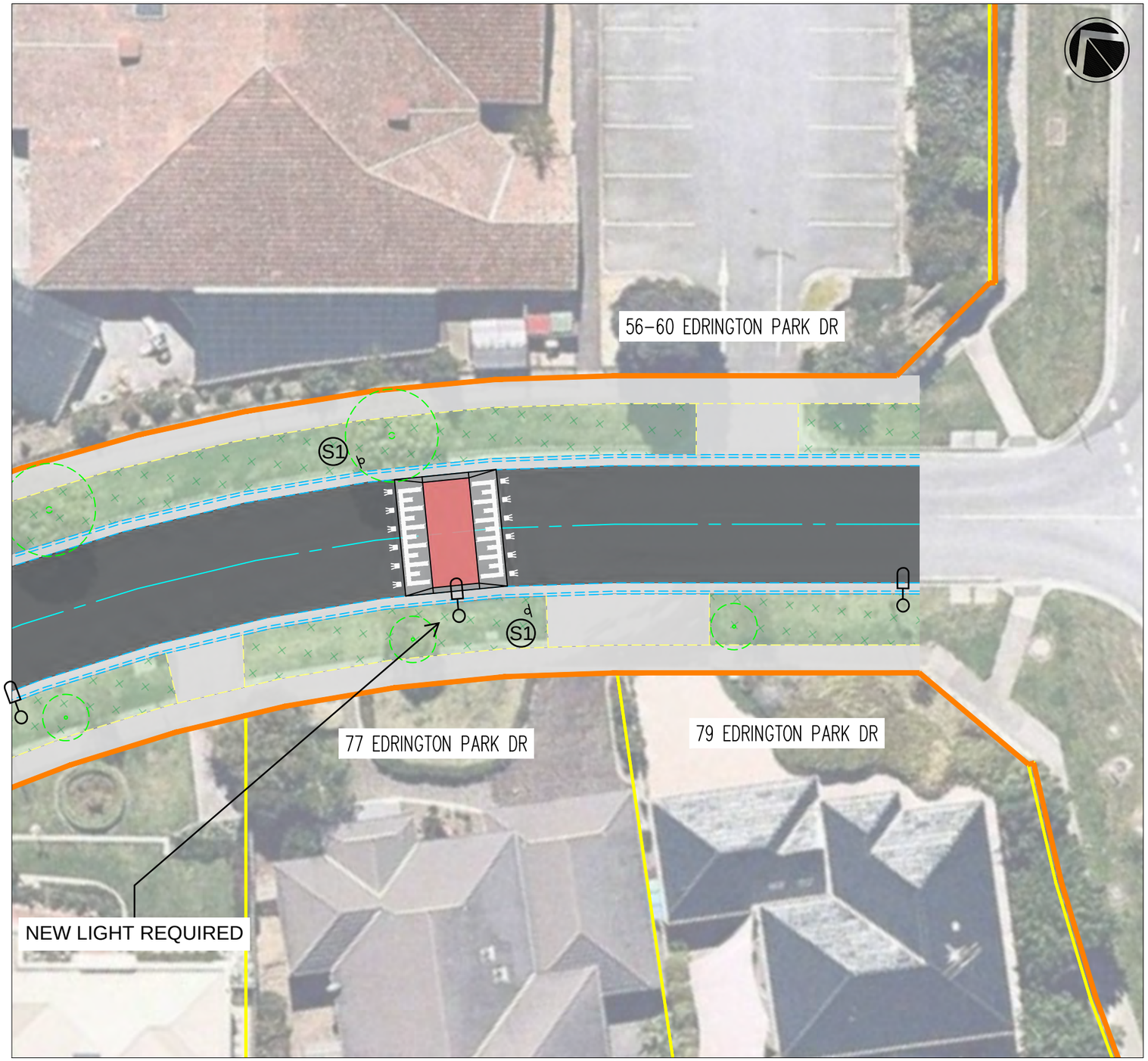

City of Casey

LOCATION 5 - LAYOUT PLAN

SCALE: 1:250

0 5 10 Meters

PRELIMINARY

LEGEND											
PROPOSED DRAINAGE		GAS MAIN	G	FIRE PLUG		SEWER MANHOLE		GRAVEL DRIVE		PSM	
PROPOSED DRAINAGE PITS		WATER MAIN	W	STOP VALVE		TELEPHONE PIT		CONCRETE DRIVE		TITLE PEG	
EXISTING DRAINAGE		TELEPHONE U/G	T	FIRE HYDRANT		TELEPHONE POLE		CHICKENED PATH		NATURAL SURFACE	
EXISTING DRAINAGE PITS		POWER U/G	E	POWER POLE		TELEPHONE BOX		TREE		HOUSE NO.	(26)
EXISTING TIDE AIR CHANNEL		POWER OVERHEAD	E	LIGHT POLE		GAS VALVE		TREE REMOVAL		LOT/LP NO.	65
EXISTING KERB AND GUTTER		SEWER MAIN	S	POWER PIT		HOUSE DRAIN		TREE STUMP		PIT NO.	<53>

AMENDMENTS			
DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: AS SHOWN
COORD. SYS.: GDA94	
SURVEY -	JOB NO.
DESIGN S.HAMILTON	DWG.FILENAME P0.DWG
CHECKED -	REG. FILE NO.
CERTIFIED	MELWAY REF. 111 F10
BRIEF NO.	CONTRACT NO.

CITY OF CASEY

LOCAL TRAFFIC MANAGEMENT SCHEME
EDRINGTON PARK DRIVE, BERWICK
LAYOUT PLAN 3 OF 3
LOCATIONS 5 AND 6

MANAGER CITY DESIGN AND CONSTRUCTION
DATE: 04.01.2019
REVISION -
SHEET C04
REVISION P0

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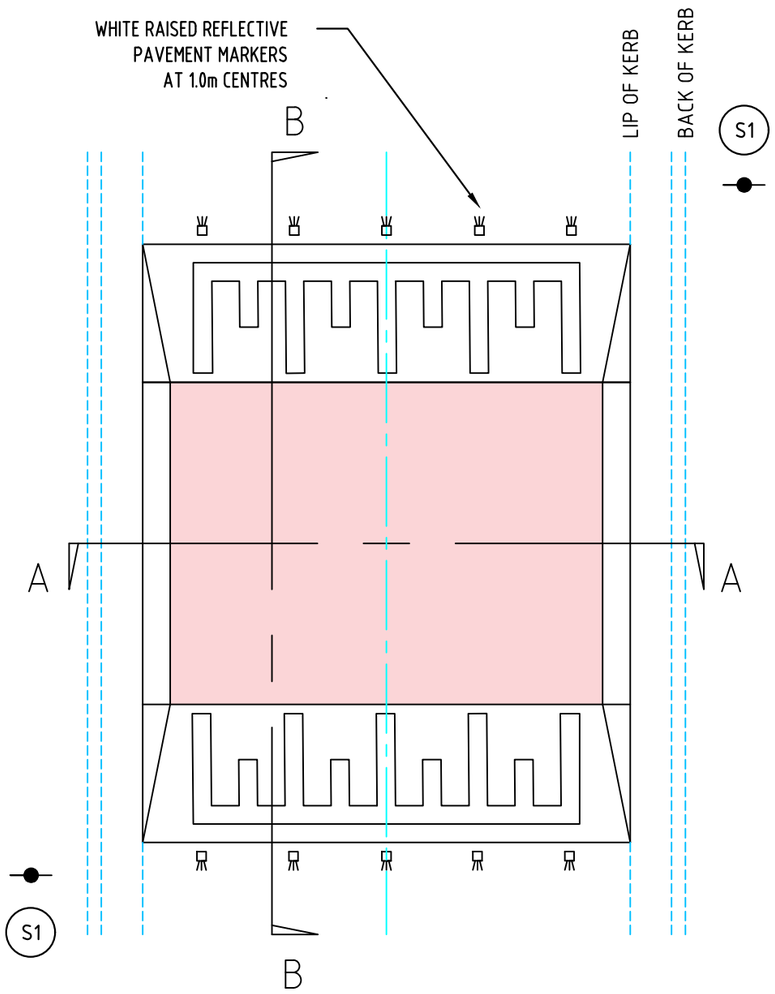
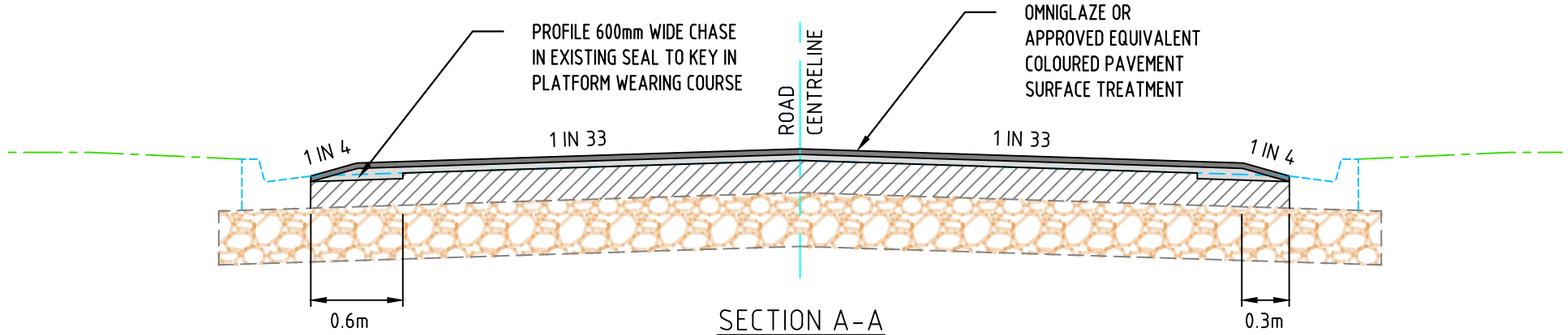


TYPICAL FLAT TOP PLATFORM DETAIL

NOT TO SCALE



SECTION A-A

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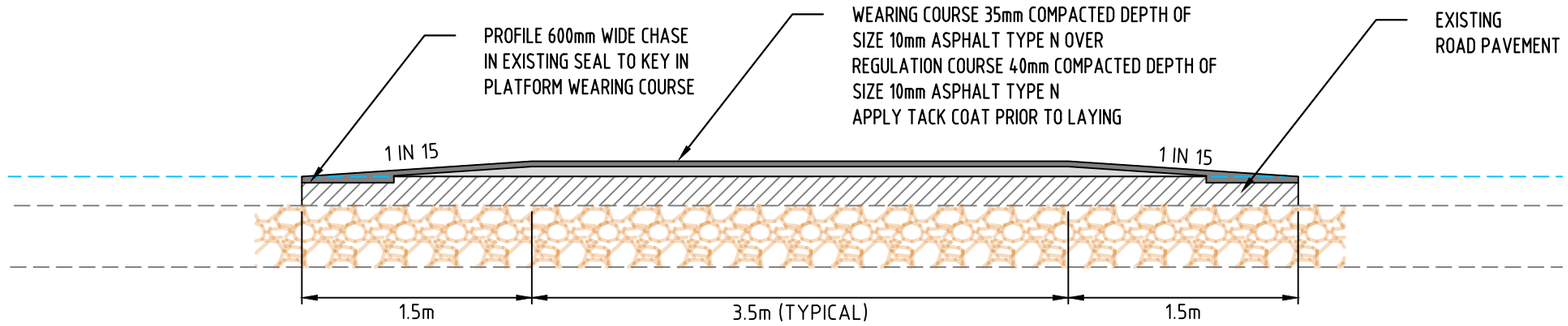

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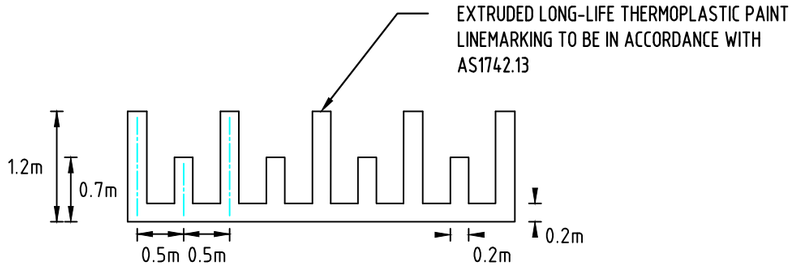
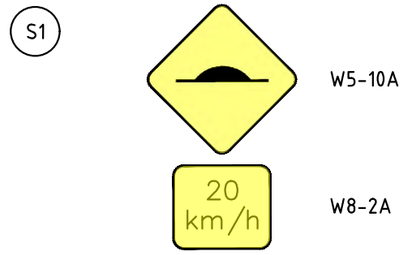


LINEMARKING DETAIL



SIGNAGE SCHEDULE

City of Casey

PRELIMINARY

LEGEND

PROPOSED DRAINAGE	GAS MAIN	G	FIRE PLUG	SEWER MANHOLE	GRAVEL DRIVE	PSM					
PROPOSED DRAINAGE PITS	WATER MAIN	W	STOP VALVE	TELEPHONE PIT	CONCRETE DRIVE	TITLE PEG					
EXISTING DRAINAGE	TELEPHONE U/G	T	FIRE HYDRANT	TELEPHONE POLE	THICKENED PATH	NATURAL SURFACE					
EXISTING DRAINAGE PITS	POWER U/G	E	POWER POLE	TELEPHONE BOX	TREE	HOUSE NO.	(25)				
PROPOSED KERB AND CHANNEL	POWER OVERHEAD	E	LIGHT POLE	GAS VALVE	TREE REMOVAL	LOT/LP NO.	65				
EXISTING KERB AND CHANNEL	SEWER MAIN	S	POWER PIT	HOUSE DRAIN	TREE STUMP	PIT NO.	<3.2>				

AMENDMENTS

DATE	REMARKS	REV	APP

DATUM: A.H.D.	SCALE: AS SHOWN
COORD. SYS.: GDA94	
SURVEY -	JOB NO.
DESIGN S.HAMILTON	DWG.FILENAME P0.DWG
CHECKED -	REG. FILE NO.
CERTIFIED	MELWAY REF. 111 F10
BRIEF NO.	CONTRACT NO.

CITY OF CASEY

LOCAL TRAFFIC MANAGEMENT SCHEME
EDRINGTON PARK DRIVE, BERWICK
PLATFORM DETAILS AND SIGNAGE PLAN

MANAGER CITY DESIGN AND CONSTRUCTION
DATE: 04.01.2019
REVISION – C05 P0
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