

Out of Scope Programming and Delivery State Roads | Department of State Growth  
Level 2, 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001  
Email: Out of Scope @stategrowth.tas.gov.au  
Phone: Out of Scope

https://aus01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.stategrowth.tas.gov.au%2F&data=05%7C02%7CStateRoadsCorporateMail%40stategrowth.tas.gov.au%7C314d4cc5f8fd48b2e5c408dd44d06971%7C64ebab8accf44b5ca2d32b4e972d96b2%7C0%7C0%7C638742384151107823%7CUnknown%7CTWfPbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOilwLjAuMDAwMCIsIIAiOiJXaW4zMilslkFOljoITWfPbCIsIldUljoyfQ%3D%3D%7C0%7C%7C%7C&sdata=9owhhDK6N0uFQ9HLHpgNDuEfdhGwMPvjGeYcbRUFsM%3D&reserved=0

Courage to make a difference through  
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

-----Original Message-----

From: Out of Scope  
Sent: Tuesday, 4 February 2025 2:55 PM  
To: Out of Scope <Out of Scope@bigpond.com>  
Subject: RE: Mud walls Road Tuesday 07/01/2025

Hi Out of Scope

Thank you for your email.

I will direct this to the correct area and request someone contact you to further discuss the concerns raised in your email below.

Kind regards

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Courage to make a difference through TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

-----Original Message-----

From: Out of Scope @bigpond.com  
Sent: Tuesday, 7 January 2025 4:30 PM  
To: Out of Scope @stategrowth.tas.gov.au  
Subject: Fw: Mud walls Road Tuesday 07/01/2025

[You don't often get email from Out of Scope @bigpond.com. Learn why this is important at <https://aka.ms/LearnAboutSenderIdentification> ]

Hi Out of Scope

Can you please take a look at this serious issue as there are far too many near misses being reported from truck drivers who have dash cam footage proving the factual happenings.

Thank you for assisting.  
Subject Mud walls Road Tuesday 07/01/2025 12.47 pm

I **Out of Scope** I may be wrong, but memory tells me you may have been the project manager of the Mud Walls Road to Midland Highway upgrades a while back.

Anyway no matter who d was project manager there is continuing near miss incidents at this intersection daily. It is only a matter of time before someone is killed. Why wait for that before fixing the failures made at time of this project.

In today's near miss I cant get the video to upload in full so I screen shot the critical part showing how the car from Mud Walls Rd stopped then at last minute pulled out in front of car doing 100 kph. Dash cam footage from truck following the south-bound car shows how close this was. Driver of the truck **Out of Scope** reports seeing this sort of thing almost daily on his daily runs through that intersection. There are **S**often more than one near miss reported daily by other truck drivers.

Some serious work needs to be done here before there are multiple deaths at a site with clear vision.

Can you please have this addressed by passing to the right people if you do not have the ability to follow it up yourself.

Also you will see where I marked a blue line beside the centre wire barrier on the right in this vision. There have been many reports of north bound trucks having cars pull out of Mud Walls Rd at extremely short notice to go northbound in front of truck. I have had 5 truck drivers now who have reported to me they had a coat of paint between them and the car that pulls out in front. In one case I reported to the department there was a baby in the back of the car in question which pulled out in front of that truck driver. Baby was found as road works just up the road caused both vehicles to have to stop. Truck driver got out spoke with female car driver who seemed to not be aware of what she had just done, that is where he saw the baby in baby seat in back of that car. Now that driver said although he managed to miss that car that time, had he been closer to intersection when car pulled out he no option but hit the car from behind had he been fully loaded. Just no way to avoid due to the engineering of that intersection. In the coat of paint miss with that car it was only because of truck having no load. Driver said had he been loaded and there had been no wire barrier between lanes close to that intersection he would have had a path to avoid but with the current design due to wire barrier there is no room to avoid on either side of offending car because of wire barrier each side.

Suggestion on the north bound lane at Mud Walls Rd junction widen the road to the left northbound. Re configure the wire barriers and make another lane. Highway northbound lane would move to left allowing for a slip lane to be placed for mud Walls Rd traffic to be forced into the slip lane then merge left into highway traffic. At the very least this action would allow avoidance room for any heavily loaded trucks doing 100 kph to avoid any vehicle that may pull out in front at extremely short notice making the intersection safer. Not sure how to stop cars pulling out across in front of southbound traffic as in today's picture at short notice.

All of this should have been addressed at time of the upgrade. Whoever is designing these upgrades is failing to be conscious of what some drivers are doing and how often.

Hoping you may be able to help with this.

Regards

**Out of Scope**

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This email has been checked for viruses by Avast antivirus software.  
<https://aus01.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.avast.com%2F&data=05%7C02%7CStateRoadsCorporateMail%40stategrowth.tas.gov.au%7C314d4cc5f8fd48b2e5c408dd44d06971%7C64ebab8accf44b5ca2d32b4e972d96b2%7C0%7C0%7C638742384151141965%7CUnknown%7CTWFPbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIIAiOiJXaW4zMilSlkFOIjoiTWFPbClldUI>

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&reserved=0



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**From:** [Out of Scope]@jacobs.com>  
**Sent:** Thursday, 25 March 2021 6:17 PM  
**To:** [Out of Scope]  
**Cc:** Midland Highway Final Stage [Out of Scope]  
**Subject:** FW: MHFS - Client Direction [Out of Scope] scope pavement areas

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi [Out of Scope]

Please see the email below for some information on the “out of scope” pavement areas within the project areas.

Jacobs do have deflectograph information on the Tunbridge section you asked about, however we would need to undertake appropriate assessment on that data to be able to estimate any residual pavement life.

Please let me know of any questions.

Best regards

[Out of Scope]

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**From:** [Out of Scope]@jacobs.com>  
**Sent:** Monday, 22 March 2021 5:19 PM  
**To:** [Out of Scope]@jacobs.com>  
**Cc:** Midland Highway Final Stage <MidlandHighwayFinalStage@jacobs.com> [Out of Scope]  
[Out of Scope]@jacobs.com; [Out of Scope]@jacobs.com>  
**Subject:** RE: MHFS - Client Direction Request - Treatment for out of scope pavement areas

Hi [Out of Scope]

As part of our assessment of the existing pavement, Jacobs undertook a condition assessment against different criteria and metrics, including ‘The Step Method’, Design Deflections, Hawkeye condition metrics and also a visual assessment of each pavement section.

Whilst these methods can give us an estimation of the remaining pavement life for existing pavements, it should be noted that there are limitations on any method of estimation of residual pavement life, and it should only be considered as rough guidance, rather than an accurate analysis.

Based on the assessment procedure outlined in the Revised Reference Design Report, an estimate of the remaining life for each of the out of scope areas is outlined below:

- Mud Walls Rd Intersection (Ch. 53640m - Ch. 54020m) has an estimated structural pavement life exceeding 20 years, with a low frequency of visible pavement defects.
- Dudley St/Bowhill Rd Intersection (Ch. 63000m - Ch. 63660m) has an estimated structural pavement life of less than 10 years, with visible pavement defects observed throughout.
- Stanley St/Interlaken Rd Intersection (Ch. 64430m – Ch. 64960m) has an estimated structural pavement life of less than 10 years, with visible pavement defects observed in some sections.
- Esk Main Road to Conara (Ch. 124400m – 126160m) has an estimated structural pavement life exceeding 20 years, with only one defected asphalt patch visible.
- Cleveland (Ch. 129500m – Ch. 130690m) has an estimated structural pavement life exceeding 20 years, with some fatigue cracking in wheel paths observed.

Happy to answer any further questions, or provide more information of the condition assessment if necessary.

Regards,

Out of Scope



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From: [Out of Scope <\[redacted\]@jacobs.com>](#)  
Sent: Monday, 1 March 2021 11:55 AM  
To: [Out of Scope <\[redacted\]@jacobs.com>](#)  
Cc: Midland Highway Final Stage <[MidlandHighwayFinalStage@jacobs.com](#)> [Out of Scope <\[redacted\]@jacobs.com>](#); [Out of Scope <\[redacted\]@jacobs.com>](#)  
Subject: FW: MHFS - Client Direction Request - Treatment for out of scope pavement areas

Hi [Out of Scope <\[redacted\]>](#)

As discussed, below are some questions received from DSG on the client direction request we submitted for the “out of scope” pavement areas (the final version sent to DSG is attached)

Can you have a look at the questions and provide your initial thoughts?

Best regards

[Out of Scope <\[redacted\]>](#)

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From: [Out of Scope <\[redacted\]@stategrowth.tas.gov.au>](#)  
Sent: Wednesday, 24 February 2021 1:22 PM  
To: [Out of Scope <\[redacted\]@jacobs.com>](#); [Out of Scope <\[redacted\]@jacobs.com>](#)  
Cc: Midland Highway Final Stage <[MidlandHighwayFinalStage@jacobs.com](#)> [Out of Scope <\[redacted\]@jacobs.com>](#)  
Subject: [EXTERNAL] RE: MHFS - Client Direction Request - Treatment for out of scope pavement areas

Hi [Out of Scope <\[redacted\]>](#)

As follow-up to the below email/client direction form:

- Can Jacobs provide the projected remaining life of the five ‘out of scope areas’ identified in the draft client direction that was sent?
- It was noted that the section between Tunbridge Tier Rd. and Main Rd. (just to the north) is also an ‘out of scope area’ for the 10-year action plan. Is data available on the existing section of pavement there?
  - If data is available, I’ll follow-up to let you know if folks here think it’s a big of enough concern/risk to assess its current condition/remaining life as well (again the concern being that DSG would be out there shortly after the 10 year plan fixing this section of road).

As always, let me know if there are follow-up questions/concerns/you would like to discuss further,

[out of scope <\[redacted\]>](#)

Out of Scope

Programming and Delivery | Department of State Growth  
4 Salamanca Place, Hobart | GPO Box 536, Hobart TAS 7001  
Phone: [Out of Scope <\[redacted\]>](#)  
Web: [www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

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**From:** [Out of Scope]  
**Sent:** Monday, 12 April 2021 2:43 PM  
**To:** [Out of Scope] Midland Highway Final Stage  
**Cc:**  
**Subject:** Comments on revised reference design  
**Attachments:** MHFS\_NORTH RRD\_COMMENT REGISTER\_MARCH 2021.XLSX; Comments Register Oatlands and Ross Revised Reference Design - Midland High~sign consultant Jacobs reference MHFS\_SOUTH RRD\_COMMENT REGISTER\_MARCH 2021.XLSX; RE: Comments register spreadsheet for Oatlands and Ross Revised Reference Designs - Southern package - Midland Highway Final Stage - Traffic engineering; RE: Comments register spreadsheet for Campbell Town to Epping Forest Revised Reference Designs - Northern package - Midland Highway Final Stage - Traffic engineering

Hi [Out of Scope]

Attached for your distribution and review are the comments on the revised reference design, which have been provided by [Out of Scope], the EDA team [Out of Scope] and [Out of Scope]

[Out of Scope]

[Out of Scope] has not yet provided comments, however, I'm hoping the process we are now going through with him and [Out of Scope] is effectively acting as their review/comments process.

In addition, I have attached the emails from [Out of Scope] with his mark-ups referenced in his comments.

As always, upon review, let me know if there are questions/concerns/you would like to discuss further, [Out of Scope]

[Out of Scope]

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[Out of Scope]

Web: [www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

*My current work pattern is as follows:*

[Out of Scope]

**DEPARTMENT OF STATE GROWTH COURAGE TO MAKE A DIFFERENCE THROUGH:**



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**From:** Out of Scope  
**Sent:** Wednesday, 7 April 2021 10:16 AM  
**To:** Out of Scope  
**Cc:** Out of Scope; Midland Highway Final Stage  
**Subject:** RE: Comments register spreadsheet for Oatlands and Ross Revised Reference Designs - Southern package - Midland Highway Final Stage - Traffic engineering  
**Attachments:** Midland Hwy - Jericho to York Plains - RRD - Comments on GA plans - 06.0....pdf; Midland Hwy - Jericho to York Plains - RRD - Comments on S&PM plans - 06....pdf; Midland Hwy - Mona Vale to Campbell Town - RRD - Comments on GA plans - ....pdf; Midland Hwy - Mona Vale to Campbell Town - RRD - Comments on S&PM plans ....pdf  
**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Hello Out of Scope – as mentioned sorry I was delayed in getting to this.

I have filled in the comments register in terms of traffic engineering items. They are mostly minor in nature.

Also see attached mark-ups which provide some additional information on the general arrangement sheets and all the comments for the signs and pavement marking drawings.

Note that most are just sign naming convention i.e. for example denoted as R2-3(A)L instead of R2-3A(L). Also to clarify that it is intended that Keep Left signs positioned at barrier commencement away from intersections are B size and those at intersections or other median breaks are A size.

Happy to discuss should anything need further clarification.

Cheers, Out of Scope

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**From:** Out of Scope  
**Sent:** Monday, 15 March 2021 6:19 PM  
**To:** out of scope

**Cc:** out of scope

**Subject:** Previous Dept feedback on the design (at the revised concept) - Re: comments register spreadsheet for Oatlands and Ross Revised Reference Designs - southern package - Midland Highway Final Stage

Also please note that the comments registers were prepared by the design consultant, Jacobs

More importantly - They include Jacobs' responses to Department of State Growth internal stakeholders feedback on the *Revised Concept Design* last year (i.e. many of your contributions, good people 😊)

This will aid in your consideration of the Revised Reference Design referenced (!) in Out of Scope and my emails today, which I like to think of as 'the preliminary design'.

I will discuss with [out of scope] and [out of scope] as to how we wish the Dept. to respond to the Jacobs' responses – when there is a differing view between you and the designer.

Regards

[Out of Scope]

**Out of Scope** Project Manager  
Programming and Delivery | Department of State Growth  
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001  
Phone: (03) [out of scope]  
[www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

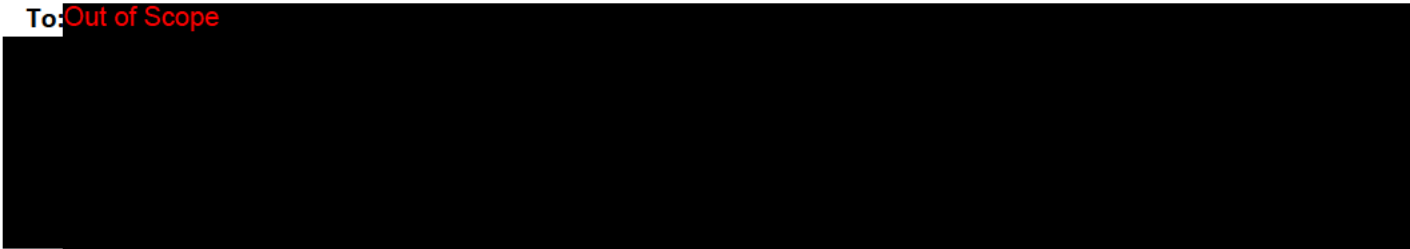
My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
Work From Home	In Office	In Office	In Office	Non-work day

DEPARTMENT OF STATE GROWTH COURAGE TO MAKE A DIFFERENCE THROUGH



From: **Out of Scope**  
Sent: Monday, 15 March 2021 5:59 PM  
To: **Out of Scope**



**Subject:** comments register spreadsheet for Oatlands and Ross Revised Reference Designs - southern package - Midland Highway Final Stage

Hi Folks

Further to **Out of Scope** email sent today (included below)

Here's the comments register for the two southern package sections: 1) Oatlands and 2) Ross to assist

[https://im-dsg.stategrowth.tas.gov.au/WebClient?uri=8142371&t=record&lang=In\\_english&mbd=false](https://im-dsg.stategrowth.tas.gov.au/WebClient?uri=8142371&t=record&lang=In_english&mbd=false)

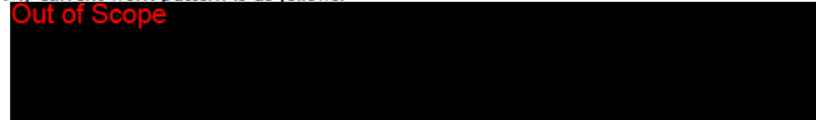
(CM reference number D21/57780/27 if that doesn't work)

Kind Regards

[Out of Scope]

**Out of Scope**  
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Phone: **Out of Scope**  
[www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

My current work pattern is as follows:



DEPARTMENT OF STATE GROWTH COURAGE TO MAKE A DIFFERENCE THROUGH



From: Out of Scope  
Sent: Monday, 15 March 2021 11:10 AM  
To: Out of Scope  
Out of Scope  
Cc: [Redacted]  
Subject: Updated Design Documents for Midland Highway Final Stage

Hello,

Attached for your review/awareness is an updated concept design (i.e. revised reference design) for the Out of Scope and Ross/Oatlands sections of the Midland Highway Final Stage. Some of the additional details included within this release are:

- Additional typical details
- Updates to pavement resurface types
- Accurate underground services locations added to GAs
- Drainage plans and sections provided
- Signs and lines drawings

The design reports and the updated comments spreadsheets should be uploaded within the attached links by the end of the day today

Can you please complete your review and provide any comments by Friday 26 March?

Let me know if there are any issues accessing/reviewing the files, or if there are any questions/concerns you would like to discuss as part of your review.

Many thanks for the on-going support,

Out of Scope

Out of Scope

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4 Salamanca Place, Hobart | GPO Box 536, Hobart TAS 7001  
Phone: Out of Scope  
Web: [www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

My current work pattern is as follows:

Out of Scope

DEPARTMENT OF STATE GROWTH COURAGE TO MAKE A DIFFERENCE THROUGH:





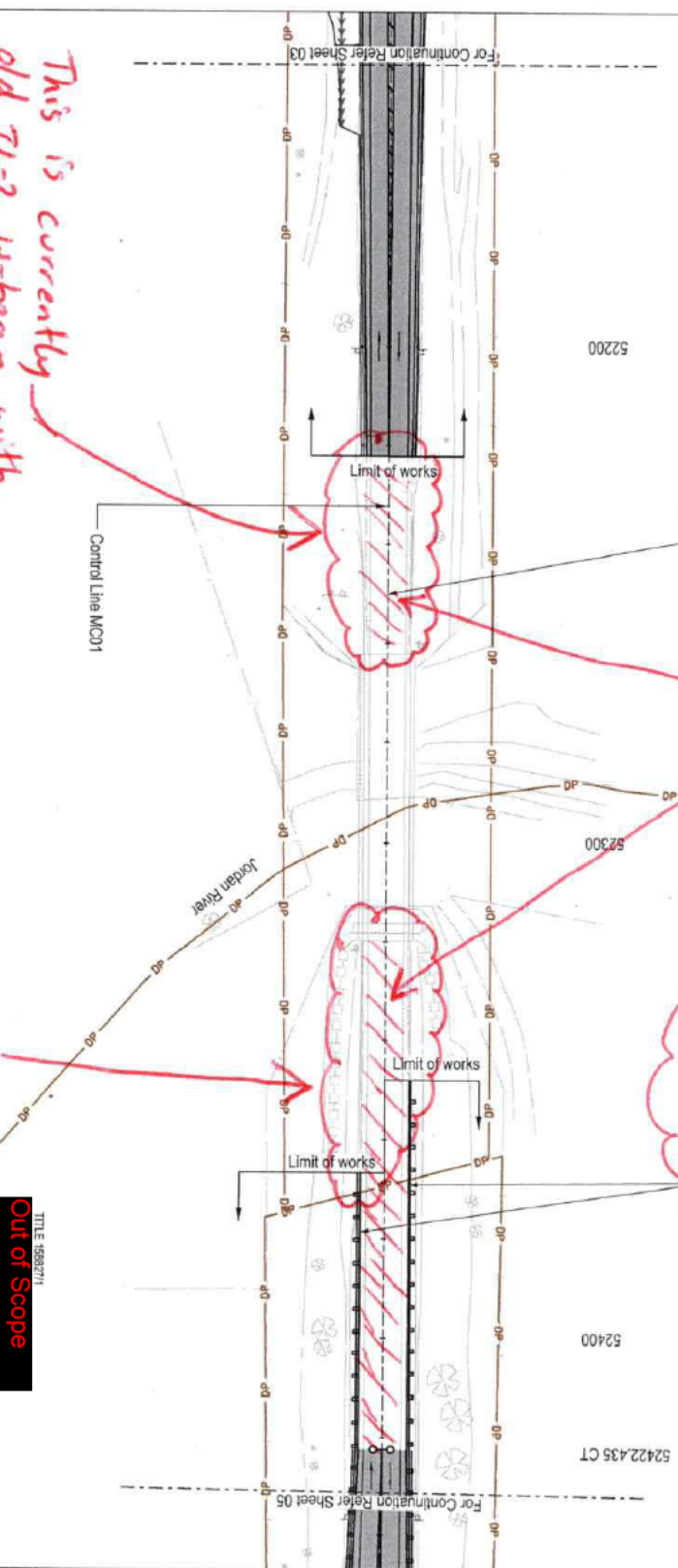
**OUT OF SCOPE**

Expect shaded areas to be resealed to bridge. Is this the case?

**OUT OF SCOPE**

Relevant to all similar notes Refer to as 'flexible steel beam barrier' not 'slimline W-beam'

To York Plans



This is currently old 7L-2 W-beam with non-compliant BETA terminals (timber posts) need to include replacement of approach barriers, new terminals and stiffened transitions to bridge in scope.

**OUT OF SCOPE**

Unsure match of new Flexible steel beam barrier to old 7L-2 W-beam will be acceptable. Suggest new barrier system is extended to bridge with appropriate new stiffened transitions

**OUT OF SCOPE**

**Legend**

**Existing features**

- Property boundary
- Fence line
- Gate
- Flexible safety barrier
- W-beam safety barrier
- Road signage
- Drain
- Table drain
- Channel
- Overhead power line
- Electric power pole
- Pole stay anchor
- Tetra underground conduit (Dipstick)
- Tetra pit
- Tetra marker
- Irrigation water line
- Water main
- Water main marker
- Water tap
- Water main (Dipstick)
- Optical Fiber (Dipstick)
- Pit hole
- Telephone Pole

**Proposed Features**

- Flexible safety barrier
- Slimline W-beam barrier
- Bomber (Slope w/line)
- Sign post drain
- Open drains
- Fence line
- Fence line to be removed
- Indicative new alignment of Underground conduit
- Utilities to be relocated
- New pavement

- Notes:**
1. For stormwater drainage refer drawing series 4000.
  2. For pavement design refer drawing series 4500.
  3. For recommendation works and landscaping design refer drawing series 4700.
  4. For signs & line marking refer drawing series 4800.
  5. For Vegetation refer drawing series 5000.
  6. For cross sections refer drawing series 5000.
  7. Unless noted otherwise, all dimensions are in metres.
  8. The contractor is to assess all the earthworks quantities and to include any additional provision for the retaining structures. The contractor is to assess the information provided and determine their extent of rock to be encountered.
  9. Refer drawing series 1900.
  10. For associated topographical sections refer to drawing series 1900.

**Warning**  
The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

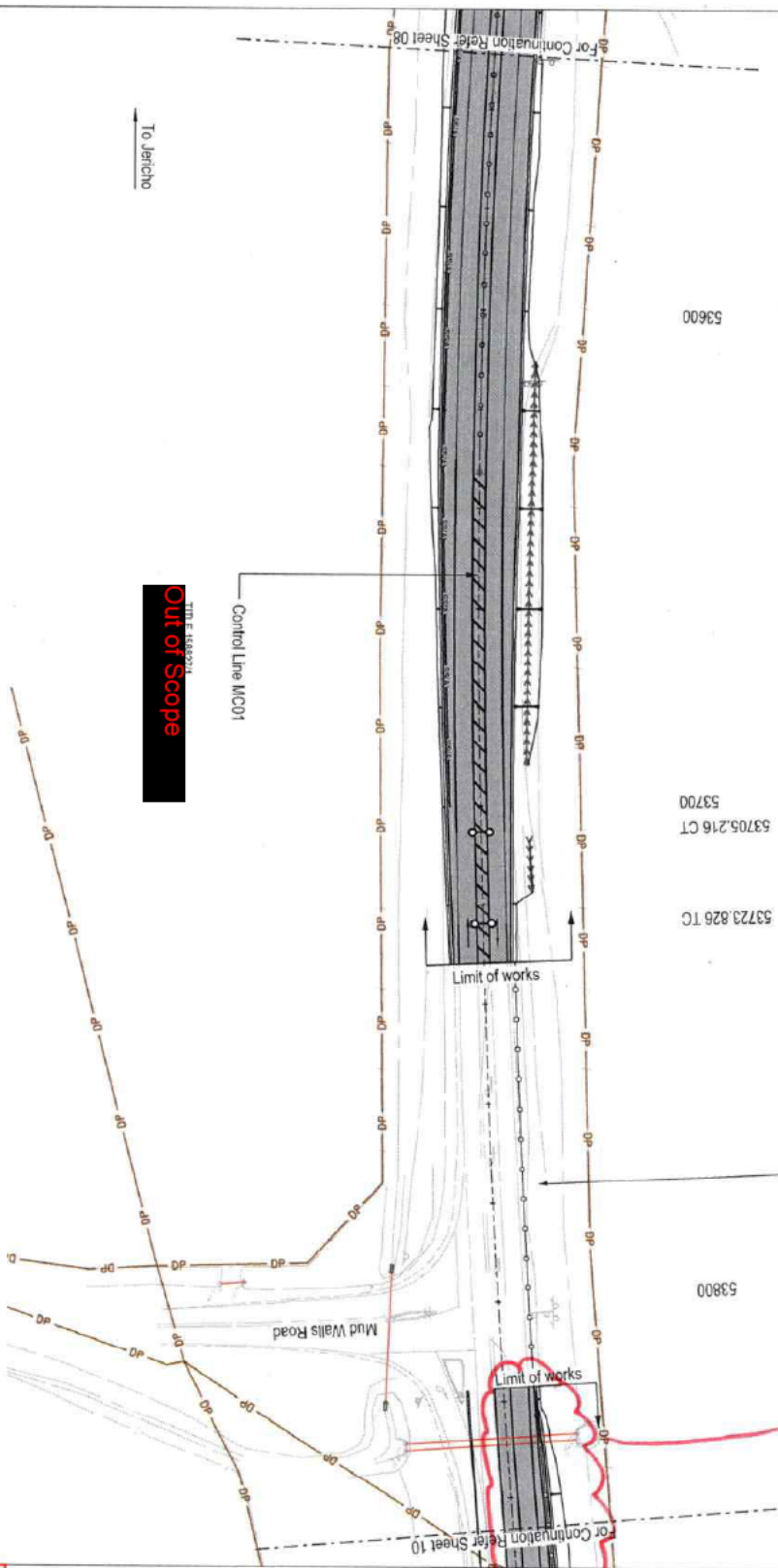
**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

DRAWING NO.		PRINTED DATE		SHEET NO.	
3169		3/9/2021		1304	
CONTRACT NO.		REGISTRATION NUMBER		REVISION	
3169		A0087.XXX		2A	
Department of State Growth MIDLAND HIGHWAY (A0087) 10 YEAR ACTION PLAN JERICO TO YORK PLANS GENERAL ARRANGEMENT PLAN SHEET 4					
DESIGNED		CHECKED		DATE	
J.E.		J.E.		11/10/21	
REVISION		DATE		BY	
1A		11/10/21		J.E.	
2A		10/03/21		J.E.	
3A		02/02/21		J.E.	
4A		02/02/21		J.E.	
5A		11/10/21		J.E.	
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72A		11/10/21		J.E.	
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78A		11/10/21		J.E.	
79A		11/10/21		J.E.	
80A		11/10/21		J.E.	
81A		11/10/21		J.E.	
82A		11/10/21		J.E.	
83A		11/10/21		J.E.	
84A		11/10/21		J.E.	
85A		11/10/21		J.E.	
86A		11/10/21		J.E.	
87A		11/10/21		J.E.	
88A		11/10/21		J.E.	
89A		11/10/21		J.E.	
90A		11/10/21		J.E.	
91A		11/10/21		J.E.	
92A		11/10/21		J.E.	
93A		11/10/21		J.E.	
94A		11/10/21		J.E.	
95A		11/10/21		J.E.	
96A		11/10/21		J.E.	
97A		11/10/21		J.E.	
98A		11/10/21		J.E.	
99A		11/10/21		J.E.	
100A		11/10/21		J.E.	



TID F 1589271  
**Out of Scope**

See comment  
on 1310



**Legend**

Existing features	
---	Property boundary
---	Fence line
---	Gate
---	Flexible safety barrier
---	Western safety barrier
---	Road signpost
---	Dish drain
---	Table drain
---	Overhead power line
---	Electrical power pole
---	Pole stay anchor
---	Tension underground conduit (Diploised)
---	Telero pit
---	Telero marker
---	Irrigation water line
---	Water main
---	Water main marker
---	Water Tap
---	Water main (Diploised)
---	Optical Fiber (Diploised)
---	Pit Hole
---	Telephone Pole

**Proposed Features**

---	Flexible safety barrier
---	Shimura Western barrier
---	Barrier (dimple walls)
---	Soil soil drain
---	Open drains
---	Fence line
---	Fence line to be removed
---	Indicative new alignment of underground conduit
---	Indicative new alignment of water line
---	Utilities to be indicated
---	New pavement

**Notes:**

1. For stormwater drainage refer drawing series 4000.
2. For pavement design refer drawing series 4500.
3. For accommodation works and landscaping design refer drawing series 4700.
4. For signs & line marking refer drawing series 4800.
5. For Vegetation refer drawing series 5000.
6. For cross sections refer drawing series 3000.
7. Unless noted otherwise, all dimensions are in metres.
8. The contractor is to assess all the earthworks quantities and is to include any allowances for rock within the earthworks quantities. The contractor is to assess the information provided and determine likely extents of rock to be encountered.
9. Refer sheet applicable on sheet 1311 to 1314 for details.
10. For associated longitudinal sections refer drawing series 1500.

**Warnings**

The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**NOT FOR CONSTRUCTION**

**REVISED REFERENCE DESIGN**

No.	Revision Description	Initials	Date
2A	REVISED REFERENCE DESIGN	J.E.	10/03/21
1B	TECHNICAL REVIEW	J.E.	02/02/21
1A	RED REVIEW	J.E.	17/01/21

**SCALES**

0 10 20 30 40 50m

SCALE: 1:1000 (A3)

**Jacobs**

Department of State Growth

DESIGNED: **Out of Scope**

REVIEWED: **Out of Scope**

Department of State Growth

MIDLAND HIGHWAY (A0087)

10 YEAR ACTION PLAN

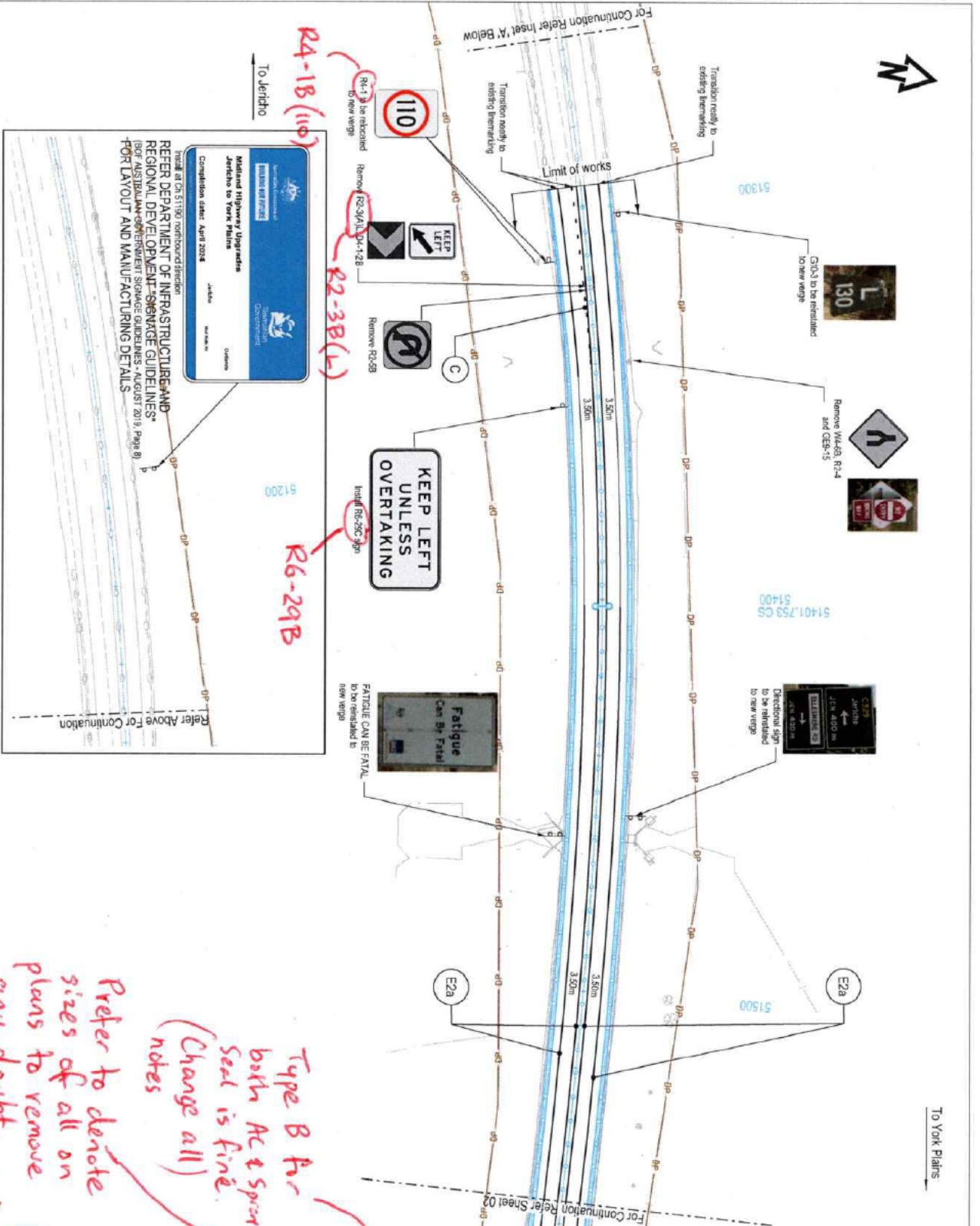
JERICHO TO YORK PLANS

GENERAL ARRANGEMENT PLAN

SHEET 9

CONTRACT No.	3189	DRAWING NO.	ISS25316-0A1-3000-CR-DRG-1309	PRINTED DATE	3/9/2021	SHEET No.	1309
REVISION NUMBER	A0087.XXX	REVISION	2A				





**REFER DEPARTMENT OF INFRASTRUCTURE AND REGIONAL DEVELOPMENT SIGNAGE GUIDELINES (2019) FOR LAYOUT AND MANUFACTURING DETAILS**

Refer to York Plains  
Refer Above For Continuation

**REFER ABOVE FOR CONTINUATION**

**REFER ABOVE FOR CONTINUATION**

Legend	Notes
— (L) Lane (L) (L)	1. The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and coatings.
— (E2 & E2a) Edge (E2 & E2a)	2. Align new pavement markings with existing pavement markings at limits of work.
— (E2C) Edge continuity (E2C)	3. Relocated pavement markings and signs are to be removed to leave a clean, undamaged pavement with a uniform texture, reflective characteristics and color comparable to adjacent pavement surface.
— (C) Continuity (C)	4. Pavement markings to be replaced in accordance with State Growth standard drawings S&I 1001.002, S&I 1001.004 and S&I 1001.011.
— (B3) Barrier (both directions) (B3)	5. Pavement markings on asphalt wearing surfaces: U.N.O.
— (C2) Continuity continuity (C2)	5.1. Thermoplastic on asphalt wearing surfaces: U.N.O.
— (H3) Holding (H3)	5.2. Application of wetting surface.
— (T) Arrow - Turn (Turn)	5.3. Thermoplastic on wetting surface.
— (S) Arrow - Straight Ahead	5.4. Thermoplastic on wetting surface.
— (U) Undermarking identification code	5.5. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.6. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.7. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.8. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.9. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.10. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.11. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.12. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.13. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.14. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.15. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.16. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.17. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.18. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.19. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.20. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.21. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.22. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.23. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.24. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.25. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.26. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.27. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.28. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.29. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.30. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.31. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.32. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.33. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.34. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.35. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.36. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.37. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.38. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.39. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.40. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.41. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.42. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.43. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.44. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.45. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.46. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.47. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.48. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.49. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.50. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.51. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.52. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.53. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.54. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.55. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.56. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.57. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.58. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.59. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.60. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.61. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.62. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.63. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.64. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.65. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.66. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.67. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.68. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.69. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.70. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.71. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.72. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.73. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.74. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.75. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.76. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.77. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.78. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.79. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.80. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.81. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.82. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.83. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.84. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.85. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.86. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.87. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.88. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.89. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.90. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.91. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.92. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.93. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.94. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.95. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.96. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.97. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.98. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.99. Thermoplastic on wetting surface.
— (L) Existing sign (Large)	5.100. Thermoplastic on wetting surface.

**NOT FOR CONSTRUCTION**

**REVISED REFERENCE DESIGN**

**Prefer to denote sizes of all on plans to remove any doubt. (Change all) notes**

**Type B Ar both AC & Spurr Seal is fine.**

**Refer to York Plains**

**REFER ABOVE FOR CONTINUATION**

**Department of State Growth**

**MIDLAND HIGHWAY (A0087)**

**10 YEAR ACTION PLAN**

**JERICO TO YORK PLAINS**

**SIGNAGE AND PAVEMENT MARKING PLAN**

**SHEET 1**

**CONTRACT NO. 3189**

**DRAWING NO. A0087.XXX**

**PRINTED DATE 3/9/2021**

**SHEET NO. 4801**

**REVISION 2A**

No.	Amendment Description	Date
2A	REVISED REFERENCE DESIGN	11/03/21
1B	TECHNICAL REVIEW	02/02/21
1A	RED REVIEW	11/01/21

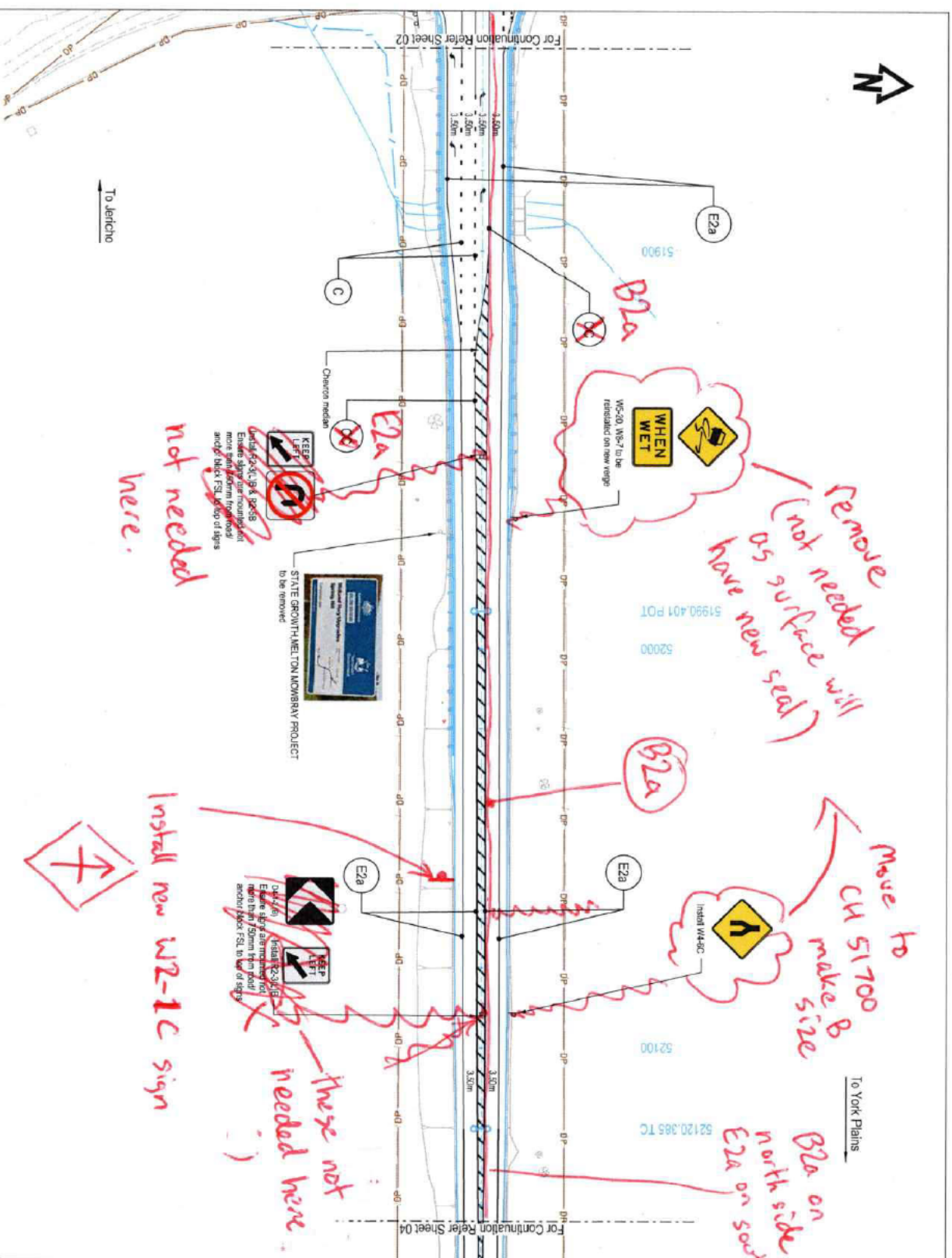
DESIGNED	REVIEWED
Jacobs	Jacobs

DESIGNED	REVIEWED
Out of Scope	Out of Scope

DESIGNED	REVIEWED
Jacobs	Jacobs

DESIGNED	REVIEWED
Jacobs	Jacobs





No.	Amendment Description	Initials	Date
2A	REVISED REFERENCE DESIGN	J.E.	10/02/21
1B	TECHNICAL REVIEW	J.E.	02/02/21
1A	RED REVIEW	J.E.	11/01/21



Department of State Growth  
 MIDLAND HIGHWAY (A0087)  
 10-YEAR ACTION PLAN  
 JERICO TO YORK PLANS  
 SIGNAGE AND PAVEMENT MARKING PLAN  
 SHEET 3

DESIGNED	REVIEWED
Out of Scope	

CONTRACT NO.	3169
REGISTRATION NUMBER	A0087.XXX
PRINTED DATE	3/9/2021
SHEET NO.	4803
REVISION	2A

**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

**Notes**

- The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
- Align new pavement marking with existing pavement markings at limits of work.
- Relocate pavement markings and signs are to be removed to leave a clean, unobstructed pavement with a surface texture, reflective characteristics and color comparable to adjacent pavement surface.
- Proposed signs shall be installed in accordance with State Growth standard drawings SP-D1-001, 002, 003 and SD-04-011.
- Pavement markings are to be:
- Thermoplastic on overhead warning surfaces, J.N.O.
- Dependent on the nature of the surface.
- Chemical on the surface.
- Auto-deline markings shall be Type A or sprayball & Type B or sprayball seals.
- Straight pavement signs used for defining two-way traffic shall be 6m in length.
- Arrow spacing as per DSG standard drawing SD-8-4-018 unless noted otherwise.
- Provide RPP's and guide posts in accordance with State Growth standard drawings and the specification.
- Signs shall be installed in accordance with the specification.
- All existing signs are to be removed or relocated as directed on drawings unless noted otherwise.
- New signs to be installed and existing signs to be relocated as per State Growth standard drawings 3403-SPT-2-4, 3403-SPT-2-1, & 3403-SPT-2-2. New guide sign faces shall be manufactured in accordance with the design provided.
- Signs located in medians and traffic islands to be installed using non-socket or similar approved and fixed with nail thru bolts.
- Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to VicRoads design new 82N-06-10 for a list of recognized products. Posts complying with AS1742.2 will also be accepted.
- For road cross sections refer to sheet 1100.
- For road cross sections refer to sheet 8000.
- For signage structure refer to sheet 1000.

**Warnings**

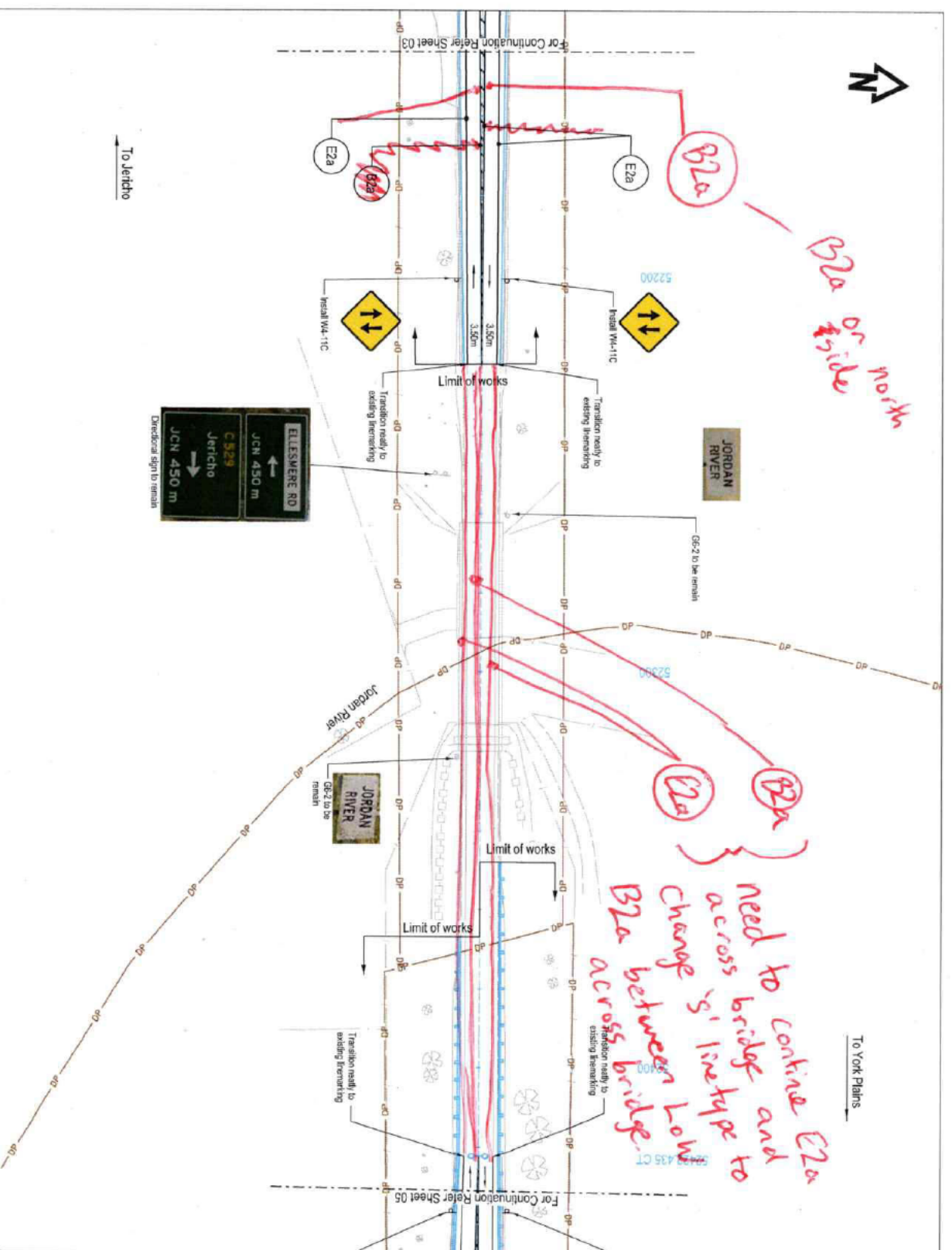
The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

3/9/2021 4:36:10 PM  
 C:\Users\jamesr\OneDrive\Documents\2021\04\18\1815\2021-04-18-200-CR-DRC-4803.dwg



B2a or E2a work

need to continue E2a across bridge and change sign type to B2a between Low B2a across bridge.



To York Plans

**Legend**

---	Lane (final) (L)
---	Edge (final) (E2 & E2a)
---	Edge continuity (final) (EC2)
---	Continuity (C)
---	Barrier (both directions) (B3)
---	Continuous continuity (CC)
---	Holding (H1)
---	Arrow - merge (final)
---	Arrow - Turn (final)
---	Arrow - Straight Ahead
---	Unmarking identification code
---	Existing sign (single)
---	Proposed sign (single)
---	Proposed sign (large)
---	Proposed sign (single)
---	Proposed sign (double)
---	Functional Design
---	Proposed Fence line
---	Property boundary

**Notes**

- The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
- Align new pavement markings with existing pavement markings at limits of work.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
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- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.
- Remove pavement markings and RFLMs are to be removed to leave a clean, undamaged pavement surface. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings. Pavement markings to be removed shall be identified on drawings.

**Warning**

Because of Underground Services the location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**NOT FOR CONSTRUCTION**

**REVISED REFERENCE DESIGN**

No.	Amendment Description	Index	Date
2A	REVISED REFERENCE DESIGN	J.E	10/02/21
1B	TECHNICAL REVIEW	J.E	02/02/21
1A	RED REVIEW	J.E	11/01/21

**SCALES**

0	10	20	30	40	50m
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SCALE: 1:1000 (A3)

Height Datum: AHD

**Jacobs**

DESIGNED  
REVIEWED

**Out of Scope**

Department of State Growth

MIDLAND HIGHWAY (A0887)

10 YEAR ACTION PLAN

JERICHO TO YORK PLANS

SIGNAGE AND PAVEMENT MARKING PLAN

SHEET 4

CONTRACT NO.	3169	PRINTED DATE	3/9/2021	SHEET NO.	4804
DRAWING NO.	IS282319-0A1-3000-CR-DRC-G4014	REGISTRATION NUMBER	A0087.XXX	REVISION	2A





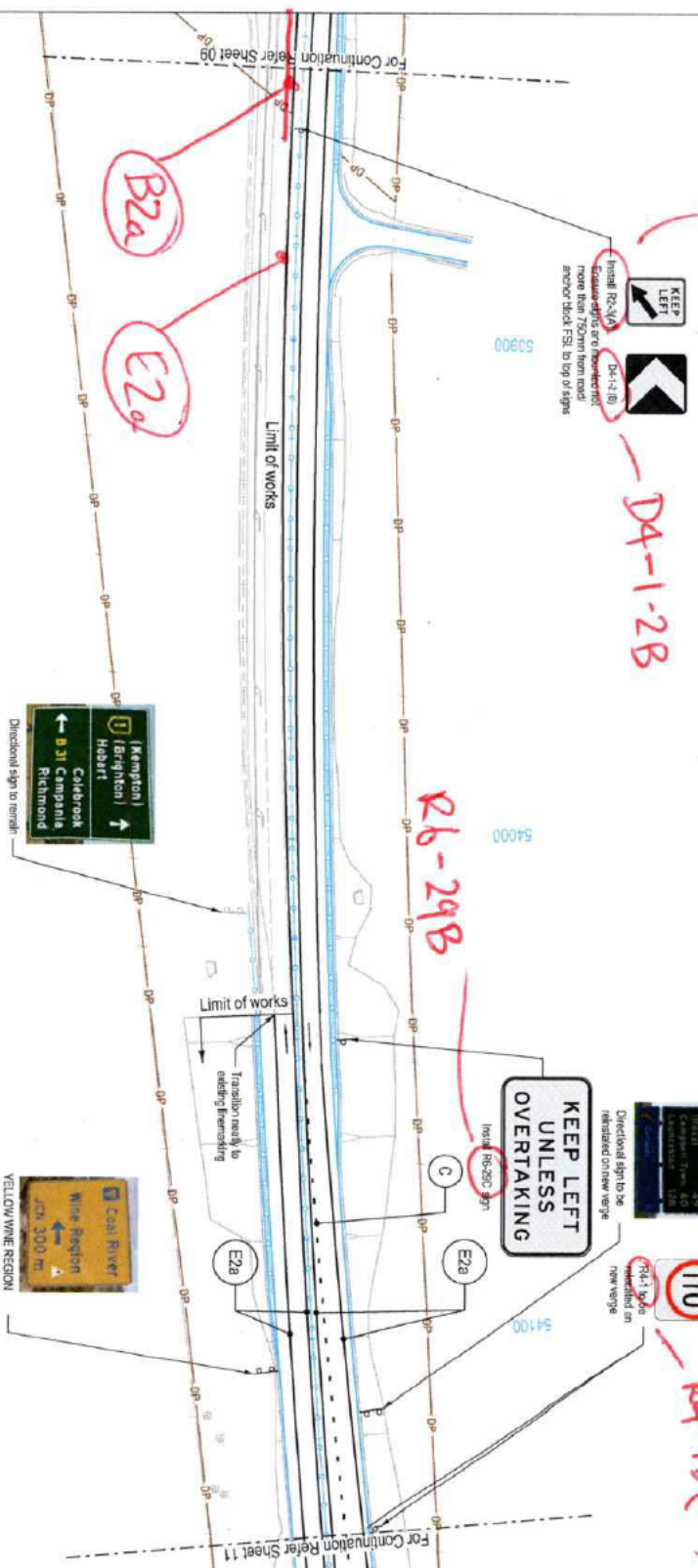


P2-38(L)

DA-1-2B

R6-29B

PA-1B(110)



To Jericho

To York Plains

4:42:49 PM

3/9/2021

No.	Revision	Description	Date
2A	REVISED REFERENCE DESIGN	J.E.	10/02/21
1B	TECHNICAL REVIEW	J.E.	02/22/21
1A	RED REVIEW	J.E.	11/01/21

SCALES	
Horizontal	1" = 40'
Vertical	1" = 40'

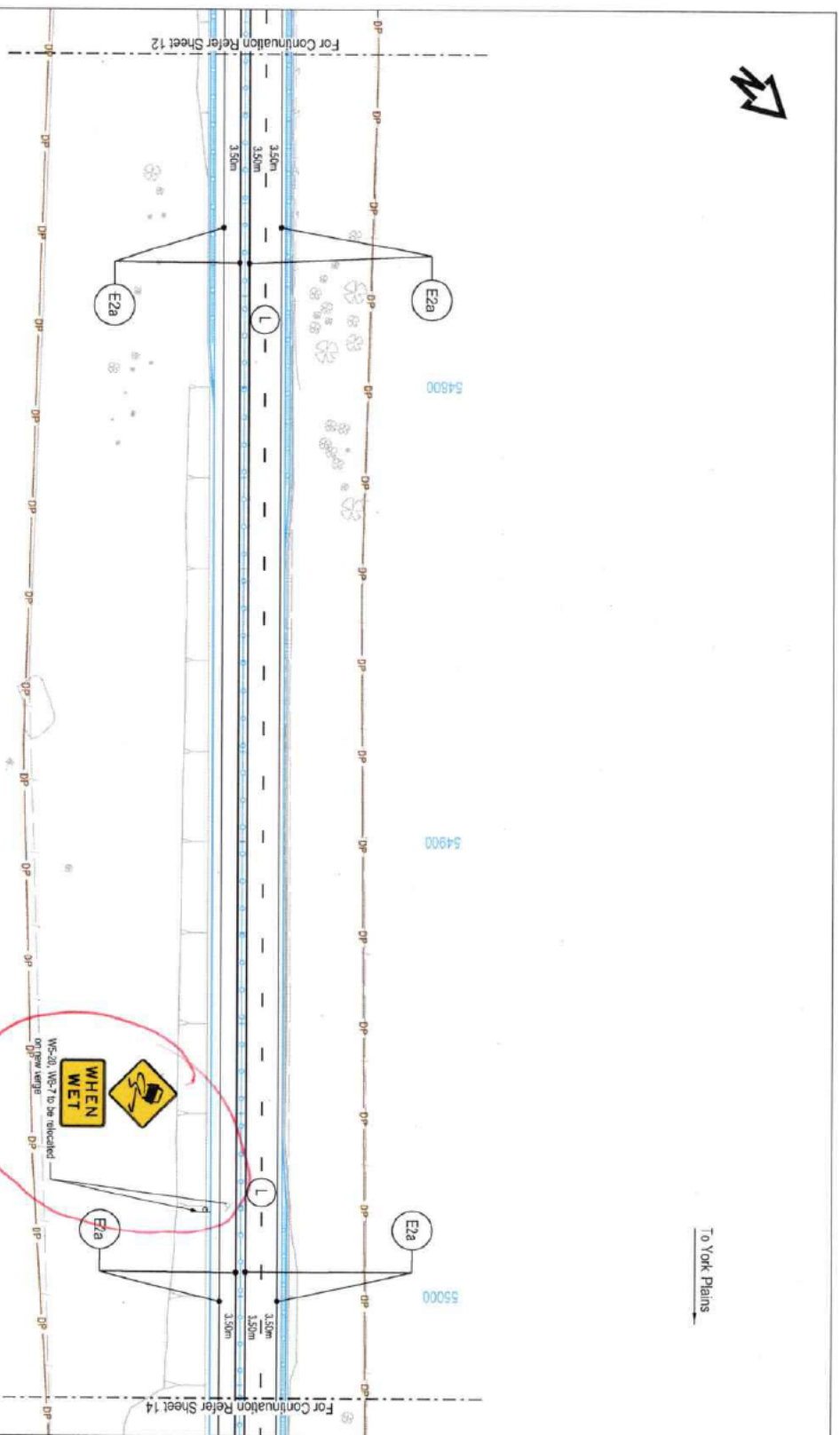
**Jacobs**  
 Department of State Growth  
 10-YEAR ACTION PLAN  
 JERICO TO YORK PLAINS  
 SIGNAGE AND PAVEMENT MARKING PLAN  
 SHEET 10

CONTRACT NO.	3169
DRAWING NO.	IS262319-041-300-CRDRG-4810
PRINTED DATE	3/9/2021
REGISTRATION NUMBER	A0087.XXX
SHEET NO.	4810
REVISION	2A

**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

**Warning**  
 The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

- The contractor shall locate all existing and proposed services prior to any construction related to traffic sign supports and footings.
- Align new pavement markings with existing pavement markings at limits of work.
- Reinforced pavement markings and RSMs are to be removed to leave a smooth, undamaged surface and sign a surface texture, reflective characteristics and color to meet the requirements of the Department of State Growth standard drawings SD-81001, 002, 004 and SD-34.011.
- Pavement markings to be installed in accordance with the Department of State Growth standard drawings SD-81001, 002, 004 and SD-34.011.
- Pavement markings are to be:
  - Thermoplastic on asphalt wearing surfaces UNL.O.
  - Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.
  - Circlework are to be waterborne paint.
  - Circlework are to be waterborne paint.
  - Audio-battle markings shall be "Type A" for asphalt & "Type B" for sprayed seals.
  - Shrinkage control grooves used for defining two-way traffic shall be 8mm in length.
- Arrow spacing as per DSS standard drawing SD-84.018 unless noted otherwise.
- Provide RSMs and guide posts in accordance with State Growth standard drawings SD-81001, 002, 004 and SD-34.011.
- Regulation and warning signs to be 30" unless noted otherwise.
- All existing signs are to be removed or relocated as directed on drawings unless noted otherwise.
- New signs to be installed and existing signs to be repositioned as per State Growth standard drawings 340C-PZ-4, 340C-SPT-1, & 340C-SPT-2. New guide sign faces shall be manufactured in accordance with the design provided.
- Signs sited in mechanics and traffic islands to be installed using top-soccer or similar approved and fitted with anti theft bolts.
- Rider to Department for State Growth Sector 709 for guide post supply and installation. Refer to V&R's design note 47046-10 for a list of accepted products. Posts complying with AS 17422 will also be accepted.
- For typical cross section (see sheet 1100).
- For typical cross section (see sheet 1100).
- For drainage schedule refer to sheet 4000.



- Legend**
- Lane (rows) (L)
  - Edge road (E2 & E2a)
  - Edge continuity (rows) (EC2)
  - Certainty (C)
  - Barrier (both directions) (BS)
  - Continuous continuity (CC)
  - Holding (HL)
  - Arrow - merge (road)
  - Arrow - Turn (road)
  - Arrow - Straight Ahead
  - Unweaving identification code
  - Existing sign (large)
  - Existing sign (small)
  - Proposed sign (large)
  - Proposed sign (small)
  - Proposed sign (double)
  - Functional Design
  - Proposed Fence line
  - Property boundary

- NOTES**
1. The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
  2. Align new pavement markings with existing pavement markings at limits of work.
  3. Redundant pavement markings and RSPNs are to be removed to leave a clean, undisturbed pavement with a surface texture, reflective characteristics and colour compatible to adjacent pavement surfaces.
  4. Revert markings to Department of State Growth standard drawings 5081.001, 1062.004 and 503-01011.
  5. Pavement markings are 60mm.
  - 5.1. Theoretical spacing between markings: 1.1M @ 5.2. Directional arrows are to be thermoplastic or cold applied plastic regardless of wetting surface.
  - 5.3. Chevrons are to be white/stone paint.
  - 5.4. Automobile markings shall be Type 'A' for asphalt & Type 'B' for gravel/sand.
  - 5.5. Straight pavement arrows used for defining two-way traffic shall be 6m in length.
  6. Arrow spacing as per DS&G standard drawing SPD-04-D18 unless noted otherwise.
  7. Provide RSPNs and guide posts in accordance with State Growth standard drawings and the specification.
  8. Regulatory and warning signs to be size 'B' unless noted otherwise.
  9. All warning signs are to be removed or relocated as detailed on drawings unless signs are to be replaced and repositioned as per State Growth standard drawings 503-00224, 300-002721, & 300-002782.
  10. New guide sign faces shall be manufactured in accordance with the design provided.
  11. Signs located in medians and traffic islands to be treated using 'boostercoat' or similar approved and fitted with anti theft bolts. Refer to Department for State Growth Sector 709 for guide post supply and installation. Refer to VicRoads design note RDN-06-10 for a list of approved products. Posts complying with AS1742.2 will also be accepted.
  14. For typical cross sections refer series 1100.
  15. For road cross sections refer series 9000.
  16. For signage schedules refer to series 1900.

**Warnings**

The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**NOT FOR CONSTRUCTION**

**REVISED REFERENCE DESIGN**

No.	Amendment Description	Initials	Date
2A	REVISED REFERENCE DESIGN	J.E.	14/03/21
1B	TECHNICAL REVIEW	J.E.	02/02/21
1A	RED REVIEW	J.E.	11/01/21

**SCALES**

0 10 20 30 40 50m

SCALE: 1:1000 (H)

Height Datum: AHD

**Jacobs**

Department of State Growth

DESIGNED: **Out of Scope**

REVIEWED: **Out of Scope**

Department of State Growth

MIDLAND HIGHWAY (A0087)

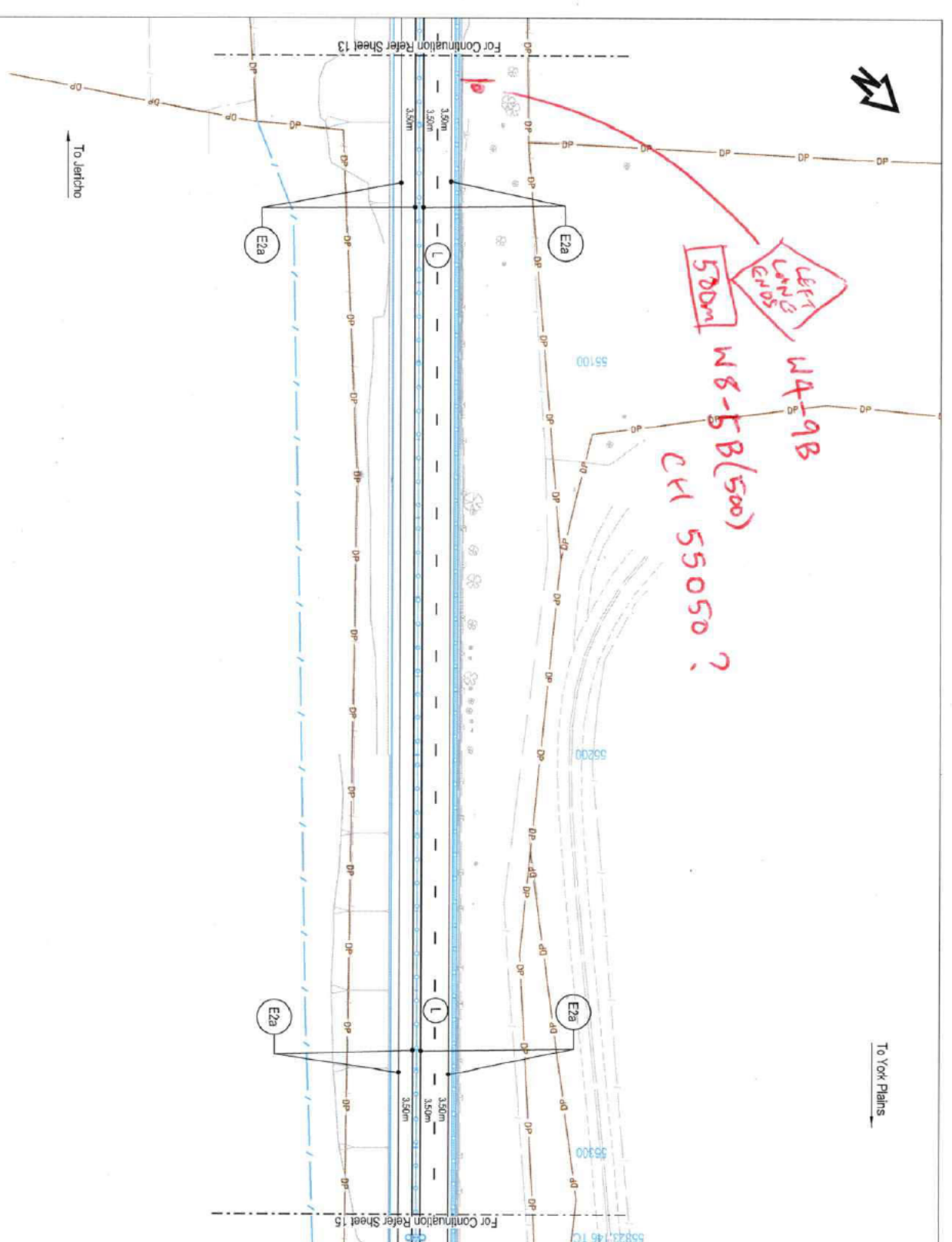
10 YEAR ACTION PLAN

JERICOH TO YORK PLAINS

SIGNAGE AND PAVEMENT MARKING PLAN

SHEET 13

DRAWING NO.	PRINTED DATE	SHEET NO.
IS262319-CAT-3000-CR-DRG-4813	3/9/2021	4813
REGISTRATION NUMBER		2A
A0087 XXXX		



NOT FOR CONSTRUCTION REVISED REFERENCE DESIGN	
<p><b>Notes</b></p> <ol style="list-style-type: none"> <li>The contractor shall locate all existing and proposed services prior to any construction related to traffic sign supports and footings.</li> <li>Align new pavement markings with existing pavement markings at limits of work.</li> <li>Redundant pavement markings and ISPRs are to be removed to leave a clean, unobscured pavement with a surface texture, reflective characteristics and color comparable to adjacent pavement surface.</li> <li>Refer to Department for State Growth Section 709 for grade post supply and installation. Refer to Victorian design rule TRM-06-16 for a list of accepted products. Posts complying with AS1742.2 will also be accepted.</li> <li>For typical cross sections refer series 1100.</li> <li>For road cross sections refer series 8000.</li> <li>For signage structure refer to series 8500.</li> </ol>	
<p><b>Materials</b></p> <p>Remains of Underground Services The location of underground services are appropriate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.</p>	

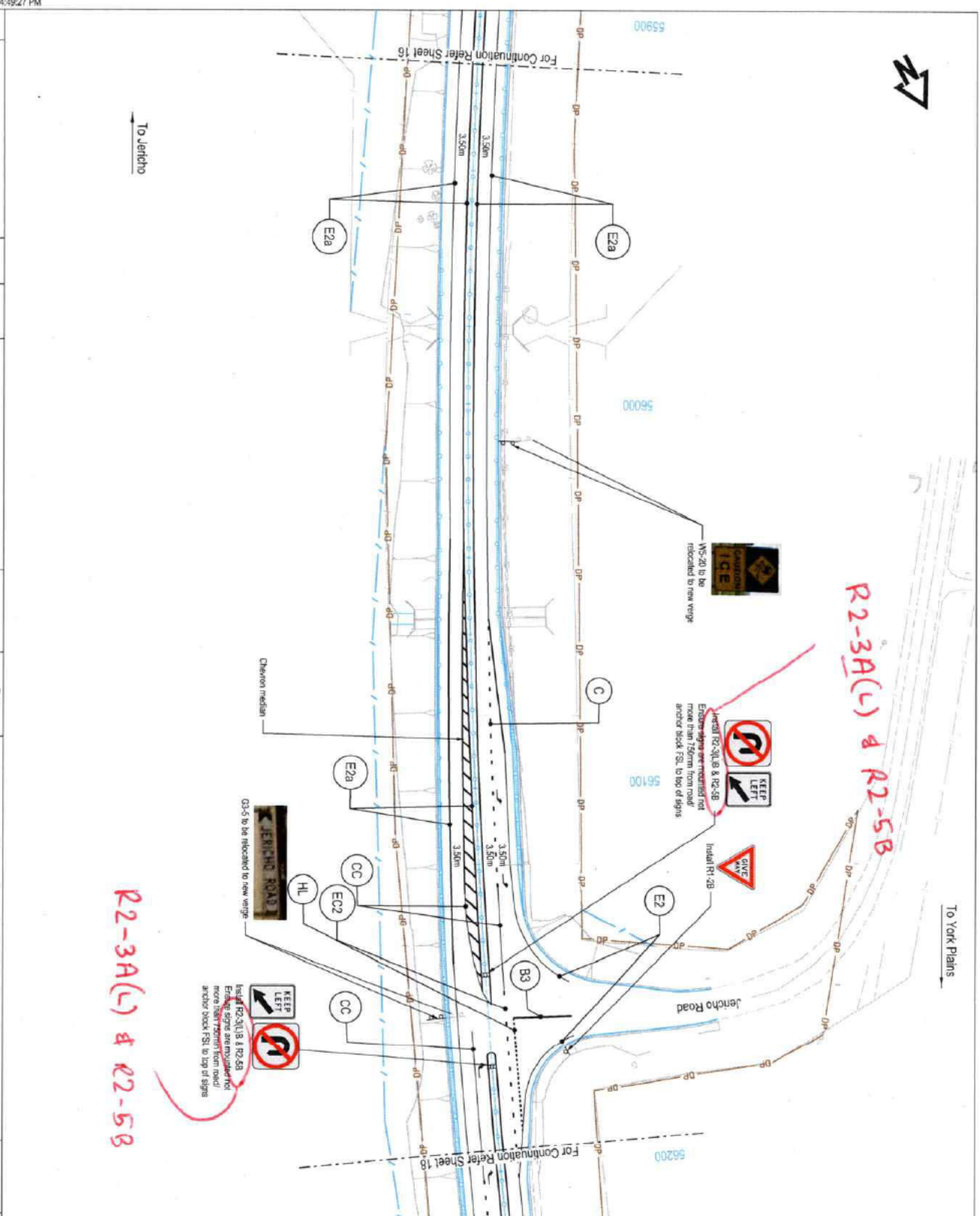
<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>— Lane (L1)</li> <li>— Edge curb (E2 &amp; E3a)</li> <li>— Edge continuity (E2c)</li> <li>— Continuity (C)</li> <li>— Barrier (both directions) (B)</li> <li>— Continuous continuity (CC)</li> <li>— Hiding (H)</li> <li>— Arrow - (range) (A1)</li> <li>— Arrow - Turn (A2)</li> <li>— Arrow - Straight Ahead</li> <li>— Littermarking identification code</li> <li>— Existing sign (large)</li> <li>— Existing sign (shape)</li> <li>— Proposed sign (large)</li> <li>— Proposed sign (single)</li> <li>— Proposed sign (double)</li> <li>— Functional Design</li> <li>— Proposed Fence line</li> <li>— Property boundary</li> </ul>	
<p><b>Department of State Growth</b></p> <p>MIDLAND HIGHWAY (A0087) 10-YEAR ACTION PLAN JERICH0 TO YORK PLAINS SIGNAGE AND PAVEMENT MARKING PLAN SHEET 14</p>	
<p>CONTRACT NO. 3169</p>	<p>PRINTED DATE 3/9/2021</p>
<p>REGISTRATION NUMBER A0087.XXX</p>	<p>SHEET NO. 4814</p>
<p>DESIGNED BY Jacobs</p>	<p>REVISION 2A</p>

No.	Amendment Description	Initials	Date
1A	RED REVIEW	J.E	11/01/21
1B	TECHNICAL REVIEW	J.E	02/02/21
2A	REVISED REFERENCE DESIGN	J.E	10/02/21

**Jacobs**  
Infrastructure  
Engineering  
DESIGNED BY  
REVIEWED BY  
**Out of Scope**

SCALES
0 10 20 30 40 50m
SCALE 1:1000 (H)
0 10 20 30 40 50m
SCALE 1:1000 (V)

<p>AD original The sheet may be prepared using colour and may be non-reflective if copied</p>	<p>Coordinate System: NZM2000</p>	<p>Height Datum: MGD</p>
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R2-3A(L) & R2-5B

R2-3A(L) & R2-5B

**Legend**

---	Lane (fms) (L)
---	Edge (fms) (E2 & E2a)
---	Edge continuity (fms) (EC2)
---	Continuity (C)
---	Barrier (both directions) (B3)
---	Continuous continuity (CC)
---	Heading (HL)
---	Arrow - merge (fms)
---	Arrow - Turn (fms)
---	Arrow - Straight Ahead
---	Uplinkmarking identification code
---	Existing sign (single)
---	Proposed sign (single)
---	Proposed sign (double)
---	Proposed sign (double)
---	Functional Design
---	Proposed Fence line
---	Property boundary

- Notes**
- The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
  - Align new pavement markings with existing pavement markings at limits of work.
  - Remove pavement markings and signs that are to be removed to leave a clean surface for new pavement markings. Remove characteristics of existing pavement markings and signs that are to be removed to leave a clean surface for new pavement markings.
  - Pavement markings to Department of State Standard drawings SD-81.001, 002, 000 and SD-84.011.
  - Pavement markings are to be:
    - Thermoplastic on asphalt wearing surfaces UNCO.
    - Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.
    - Chemicals are to be waterborne paint.
    - Audio-visual markings shall be Type A for asphalt & Type B for sprayed seals.
    - Streight pavement arrows used for defining two-way traffic shall be from in length.
  - Arrow spacing as per DSS standard drawing SD-84.018 unless noted otherwise.
  - Provide RFLPL and guide posts in accordance with State Growth standard drawings SD-84.018 and SD-84.019.
  - Regulatory and warning signs to be 36" unless noted otherwise.
  - All existing signs are to be removed or relocated as directed on drawings unless noted otherwise.
  - New signs to be installed and existing signs to be re-instated as per State Growth standard drawings SD-84.024, SD-84.027, SD-84.028, SD-84.029, SD-84.030, SD-84.031, SD-84.032, SD-84.033, SD-84.034, SD-84.035, SD-84.036, SD-84.037, SD-84.038, SD-84.039, SD-84.040, SD-84.041, SD-84.042, SD-84.043, SD-84.044, SD-84.045, SD-84.046, SD-84.047, SD-84.048, SD-84.049, SD-84.050, SD-84.051, SD-84.052, SD-84.053, SD-84.054, SD-84.055, SD-84.056, SD-84.057, SD-84.058, SD-84.059, SD-84.060, SD-84.061, SD-84.062, SD-84.063, SD-84.064, SD-84.065, SD-84.066, SD-84.067, SD-84.068, SD-84.069, SD-84.070, SD-84.071, SD-84.072, SD-84.073, SD-84.074, SD-84.075, SD-84.076, SD-84.077, SD-84.078, SD-84.079, SD-84.080, SD-84.081, SD-84.082, SD-84.083, SD-84.084, SD-84.085, SD-84.086, SD-84.087, SD-84.088, SD-84.089, SD-84.090, SD-84.091, SD-84.092, SD-84.093, SD-84.094, SD-84.095, SD-84.096, SD-84.097, SD-84.098, SD-84.099, SD-84.100.
  - For typical cross sections refer to series 1100.
  - For typical cross sections refer to series 1100.
  - For typical cross sections refer to series 1100.
  - For sign schedule refer to series 800.

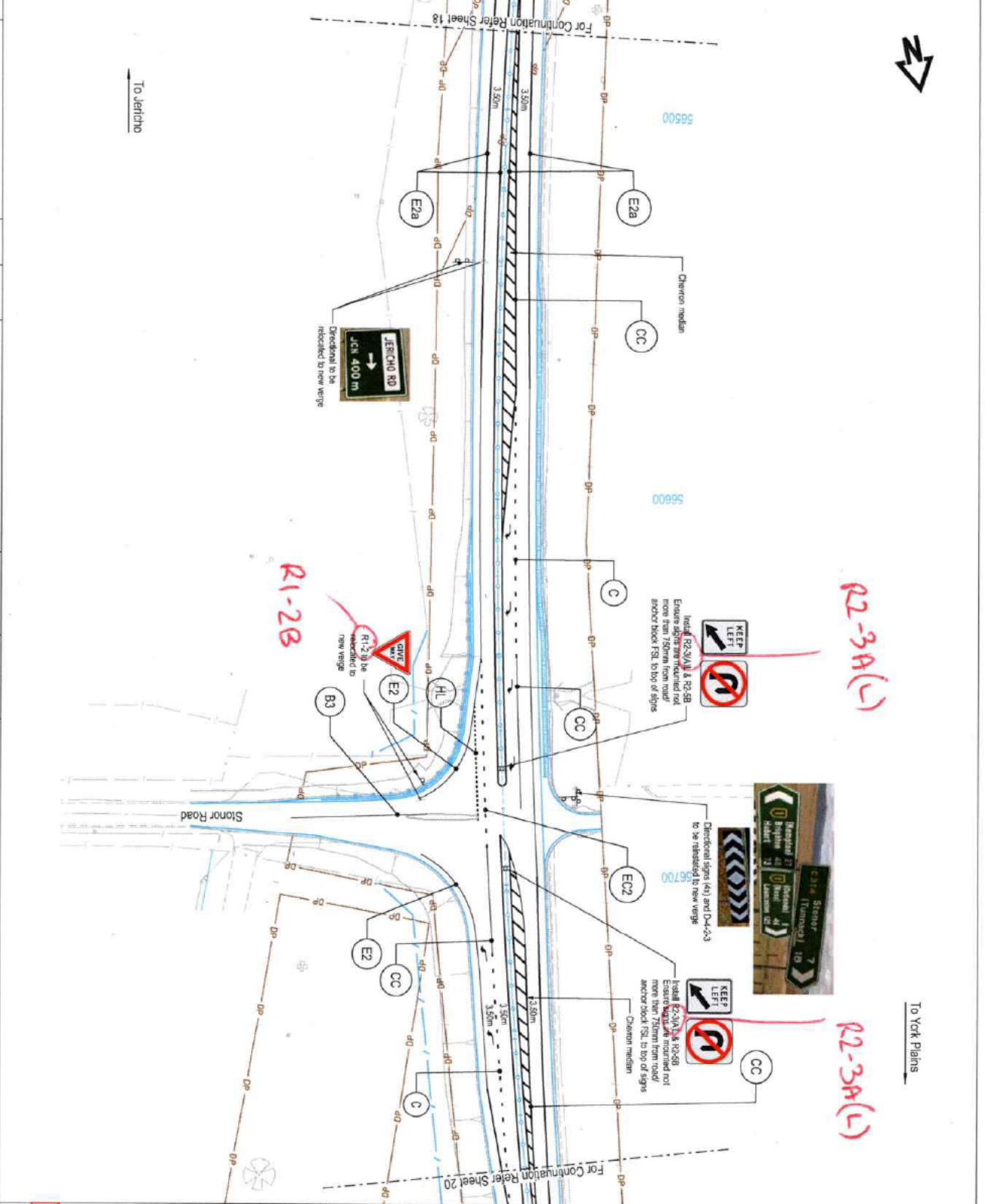
**Warnings**

The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**NOT FOR CONSTRUCTION**

**REVISED REFERENCE DESIGN**

<p>2A. REVISION REFERENCE DESIGN</p> <p>1B. TECHNICAL REVIEW</p> <p>1A. RED REVIEW</p>		<p>J.E.</p> <p>J.E.</p> <p>J.E.</p>	<p>10/20/21</p> <p>02/22/21</p> <p>11/07/21</p>
<p>Amendment Description</p> <p>This sheet may be prepared using color and may be non-compliant if copied.</p>		<p>Initials</p> <p>Date</p>	<p>Co-ordinate System: State MADS</p> <p>Height Datum: AHD</p>
<p>Department of State Growth</p> <p>MIDLAND HIGHWAY (A0087)</p> <p>10 YEAR ACTION PLAN</p> <p>JERICHO TO YORK PLAINS</p> <p>SIGNAGE AND PAVEMENT MARKING PLAN</p> <p>SHEET 17</p>		<p>CONTRACT NO.</p> <p>3169</p>	<p>PRINTED DATE</p> <p>3/9/2021</p>
<p>Jacobs</p> <p>Out of Scope</p>		<p>REGISTRATION NUMBER</p> <p>A0087.XXX</p>	<p>SHEET NO.</p> <p>4817</p>
<p>REVISIONS</p> <p>REVIEWED</p>		<p>REVISION</p> <p>2A</p>	<p>DATE</p> <p>3/9/2021</p>



R2-3A(L)

R2-3A(L)

R1-2B

NOT FOR CONSTRUCTION	
REVISED REFERENCE DESIGN	
<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Lane (L)</li> <li>Edge (E2 &amp; E2a)</li> <li>Edge (E2)</li> <li>Contourly (C)</li> <li>Barrier (both directions) (B)</li> <li>Continuous (contourly) (CC)</li> <li>Holding (H)</li> <li>Arrow - straight ahead</li> <li>Arrow - Turn (left)</li> <li>Arrow - Straight Ahead</li> <li>Universal identification code</li> <li>Existing sign (large)</li> <li>Existing sign (small)</li> <li>Proposed sign (large)</li> <li>Proposed sign (small)</li> <li>Proposed sign (double)</li> <li>Functional Design</li> <li>Proposed Fringe line</li> <li>Property boundary</li> </ul>	
<p><b>Notes</b></p> <ol style="list-style-type: none"> <li>The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.</li> <li>Align new pavement markings with existing pavement markings at limits of work.</li> <li>Redundant pavement markings and signs are to be removed to leave a clean, uncluttered pavement with a surface worn, reflective characteristics and colour comparable to adjacent pavement surfaces.</li> <li>Pavement markings to Department of State Growth standard drawings SPS41 (001, 002, 004 and SPS-41011).</li> <li>Pavement markings are to be:             <ul style="list-style-type: none"> <li>5.1. Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.</li> <li>5.2. Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.</li> <li>5.3. Chevrons are to be waterborne paint.</li> <li>5.4. Anti-slipable markings shall be 'Type A' for asphalt &amp; 'Type B' for sprayed seals.</li> <li>5.5. Straight pavement arrows used for defining two-way traffic shall be 8m in length.</li> </ul> </li> <li>Arrow spacing as per DS6 standard drawing SP-94-018 unless noted otherwise.</li> <li>Provide RDPV's and guide posts in accordance with State Growth standard drawings and the specification.</li> <li>Regulator and warning signs to be size 'B' unless noted otherwise.</li> <li>All existing signs are to be removed or relocated as detailed on drawings.</li> <li>New signs to be installed and existing signs to be relocated as per State Growth standard drawings SPS41-022-4, SPS41-027-1, &amp; SPS41-028-2.</li> <li>New guide sign faces shall be manufactured in accordance with the design provided.</li> <li>Signs located in medians and traffic islands to be installed using No-cockle or similar approved and fitted with anti theft bolts.</li> <li>Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to WorkSafe design rules RPN-06-10 for a list of accepted products. Posts complying with AS17422 will also be accepted.</li> <li>For typical cross sections refer series 1100.</li> <li>For road cross sections refer series 9000.</li> <li>For signage schedule refer to series 4000.</li> </ol>	
<p><b>Warning</b></p> <p>The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.</p>	

No.	Amendment Description	Initials	Date
2A	REVISED REFERENCE DESIGN	J/E	11/03/21
1B	TECHNICAL REVIEW	J/E	02/02/21
1A	RED REVIEW	J/E	11/01/21

SCALES	
0	10
20	30
40	50m

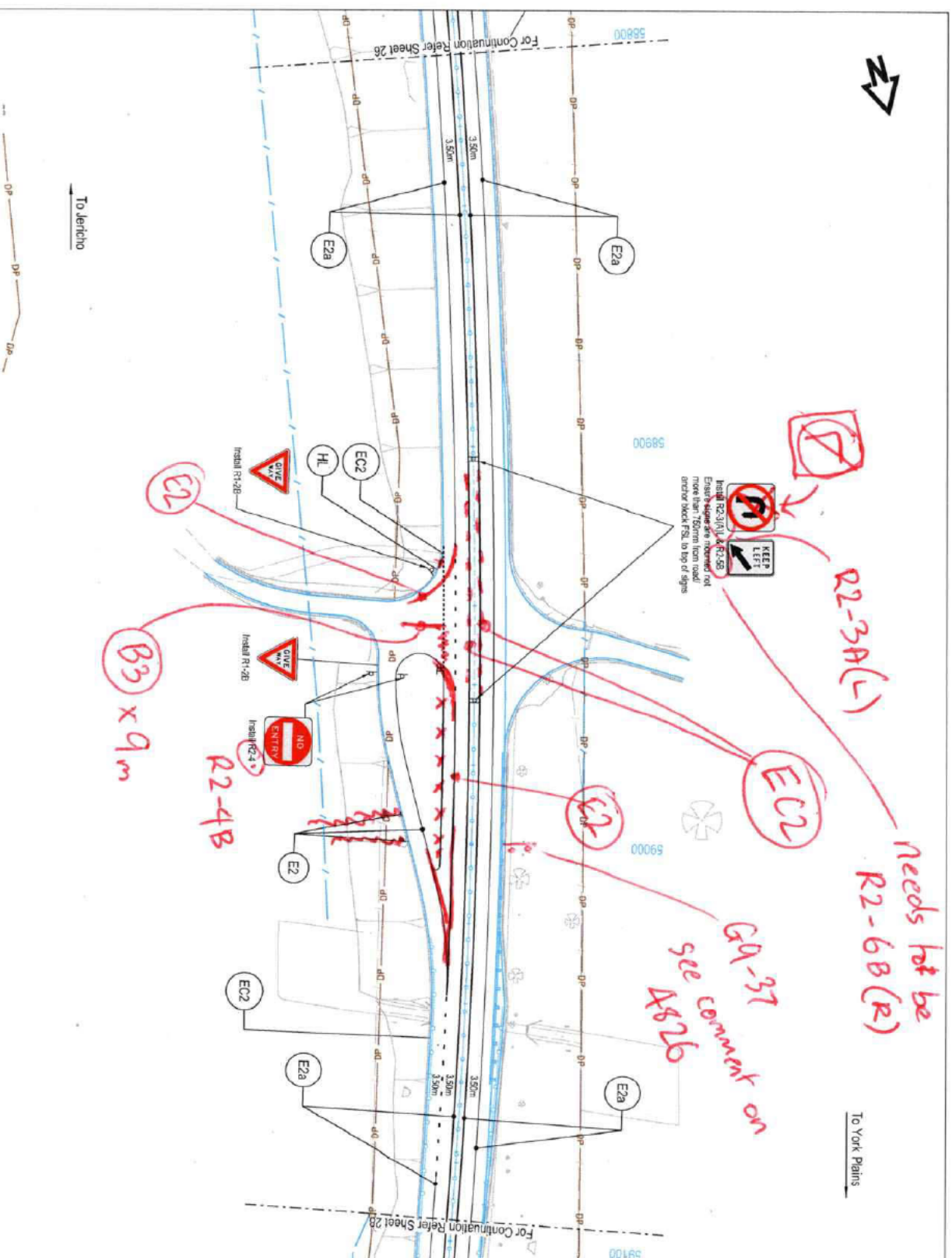
DESIGNED BY **Jacobs**

REVIEWED BY **Out of Scope**

Department of State Growth  
 MIDLAND HIGHWAY (A0087)  
 10 YEAR ACTION PLAN  
 JERICH TO YORK PLAINS  
 SIGNAGE AND PAVEMENT MARKING PLAN  
 SHEET 19

DRAWING NO.	PRINTED DATE	SHEET NO.
CONTRACT NO.	3/9/2021	4819
REGISTRATION NUMBER	A0087.XXX	REVISION 2A





To Jericho

To York Plains

**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

- Legend**
- Lane (real) (L)
  - Edge (real) (E2 & E2a)
  - Edge (continuity) (real) (E2c)
  - Continuity (C)
  - Barrier (both directions) (B3)
  - Continuity continuity (CC)
  - Holding (H)
  - Arrow - merge (real)
  - Arrow - Turn (real)
  - Arrow - Straight Ahead
  - Unmarking identification code
  - Existing sign (large)
  - Existing sign (single)
  - Proposed sign (large)
  - Proposed sign (single)
  - Proposed sign (double)
  - Functional Design
  - Property boundary
- Notes**
1. The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
  2. Align new pavement marking with existing pavement markings at limits of work.
  3. Road/other pavement markings and R2/PA's are to be removed to leave a clean, undamaged pavement with a surface texture, reflective characteristics and colour compatible to adjacent pavement surface.
  4. Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to Workbooks design notes 704C-06-10 for a list of accepted products. Posts complying with AS17422 will also be accepted.
  5. For typical cross sections refer series 1100.
  6. For road cross sections refer series 5000.
  7. For signage schedule refer to series 4000.
  8. **Warning**  
The location of Underground Services are approximately to only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.
  9. Arrow spacing as per DSQ standard drawing SD-94.018 unless noted otherwise.
  10. Provide R2/PA's and guide posts in accordance with State Growth standard drawings and the specification.
  11. All existing signs to be removed or relocated as directed on drawings unless noted otherwise.
  12. New signs to be installed and existing signs to be reflected as per State Growth standard drawings 346C-07-2-4, 346C-08-27-1, & 346C-08-27-2. New guide sign faces shall be manufactured in accordance with the design provided.
  13. Signs located in medians and traffic islands to be installed using box-socket or similar approved and fixed with anti theft bolts. Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to Workbooks design notes 704C-06-10 for a list of accepted products. Posts complying with AS17422 will also be accepted.
  14. For road cross sections refer series 1100.
  15. For road cross sections refer series 5000.
  16. For signage schedule refer to series 4000.

No.	Amendment Description	Issue	Date
2A	REVISED REFERENCE DESIGN	JLE	10/03/21
1B	TECHNICAL REVIEW	JLE	02/02/21
1A	RED REVIEW	JLE	11/01/21

SCALES	
0	100m
10	100m
20	100m
40	100m

**Jacobs**  
Department of State Growth  
DESIGNED  
REVIEWED  
**Out of Scope**

Department of State Growth  
MIDLAND HIGHWAY (A0087)  
10-YEAR ACTION PLAN  
JERICO TO YORK PLAINS  
SIGNAGE AND PAVEMENT MARKING PLAN  
SHEET 27

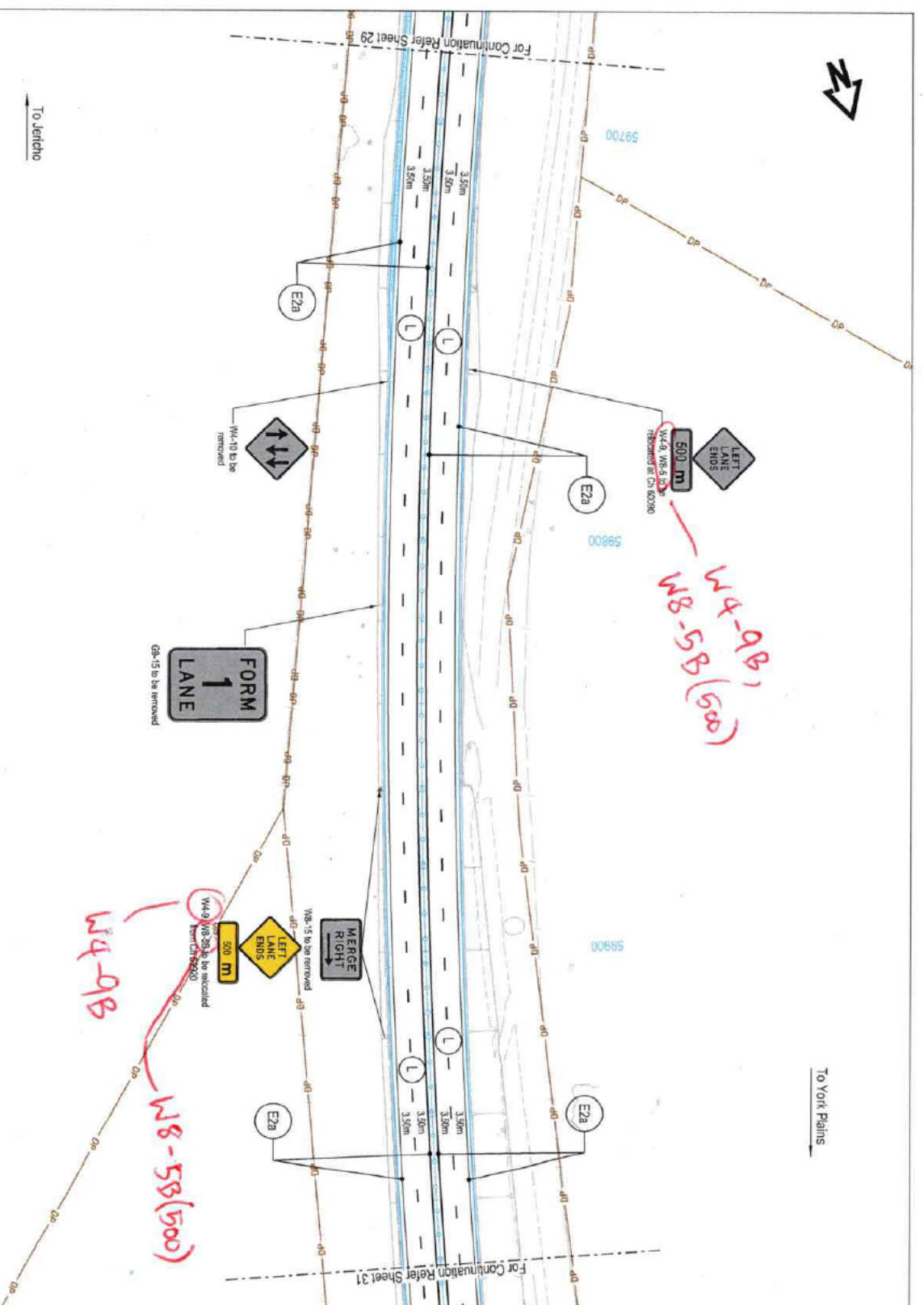
CONTRACT NO.	3169	DRAWING NO.	IS292319-0AT-3000-CR-DRG-4827	PRINTED DATE	3/9/2021	SHEET NO.	4827
REGISTRATION NUMBER	A0087.XXX	REVISION	2A				





To York Plains

To Jericho



500 M  
W4-9 W8-5 to be removed at CH 602000

W4-9B  
W8-5B(500)

FORM 1 LANE  
08-15 to be removed

500 M  
W4-9 W8-5B to be removed from CH 602000

W4-9B  
W8-5B(500)

Legend

- Lane (real) (L)
- Edge (real) (E2 & E2a)
- Edge continuity (real) (E2c)
- Continuity (C)
- Barrier (non elevating) (BS)
- Continuous continuity (CC)
- Holding (H)
- Arrow - stripe (real)
- Arrow - Turn (real)
- Arrow - Straight Ahead
- Undermarking identification code
- Existing sign (single)
- Proposed sign (large)
- Proposed sign (single)
- Proposed sign (double)
- Functional Design
- Proposed Farrow line
- Property boundary

Notes

1. The contractor shall locate all existing and proposed services prior to any construction related to traffic sign supports and foundations.
2. Align new pavement markings with existing pavement markings at limits of work.
3. Redundant pavement markings and RRPPL's are to be removed to leave a clean, unobstructed pavement with a surface texture, reflective characteristics and color comparable to adjacent pavement surface.
4. Pavement markings to be removed shall be identified on drawings.
5. Refer to 102, 104 and 105 of the Department of State Growth standard drawings.
- 5.1. Thermoplastic on special wearing surfaces UNIC.
- 5.2. Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.
- 5.3. Chevrons are to be waterborne paint.
- 5.4. Auto-bleed markings shall be Type A for asphalt & Type B for sprayed seal.
- 5.5. Straight pavement arrows used for defining two-way traffic shall be 8m in length.
6. Arrow spacing as per DSS standard drawing SD-84.018 unless noted otherwise.
7. Provide RRPPL's and guide posts in accordance with State Growth standard drawings and the specification.
8. Regulator and warning signs to be size 'B' unless noted otherwise.
9. Undermarking signs are to be removed or relocated as detailed on drawings.
10. New signs to be installed and existing signs to be replaced as per State Growth standard drawings 340CA/224, 340G/272.1 & 340G/272.2.
11. New white sign faces shall be manufactured in accordance with the design provided.
12. Signs located in medians and traffic islands to be installed using top-order or similar approved and fixed with anti theft bolts.
13. Refer to Department for State Growth Section 739 for guide post supply and installation. Refer to VicRoads design note 710/ND-10 for a list of accepted products. Posts complying with AS17422 will also be accepted.
14. For typical cross sections refer series 1100.
15. For road cross sections refer series 5000.
16. For signage schedules refer to series 4030.

**Warning**

Benarus of Underground Services  
The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

No.	Amendment Description	Initials	Date
2A	REVISED REFERENCE DESIGN	JLE	10/03/21
1B	TECHNICAL REVIEW	JLE	02/02/21
1A	RED REVIEW	JLE	11/01/21

SCALES	
0 10 20 30 40 50m	Horizontal Scale: 1:1000 (AS)
0 10 20 30 40 50m	Vertical Scale: 1:100 (AS)

**Jacobs**  
Tasmanian  
Consultants  
DESIGNED  
**Out of Scope**  
REVIEWED

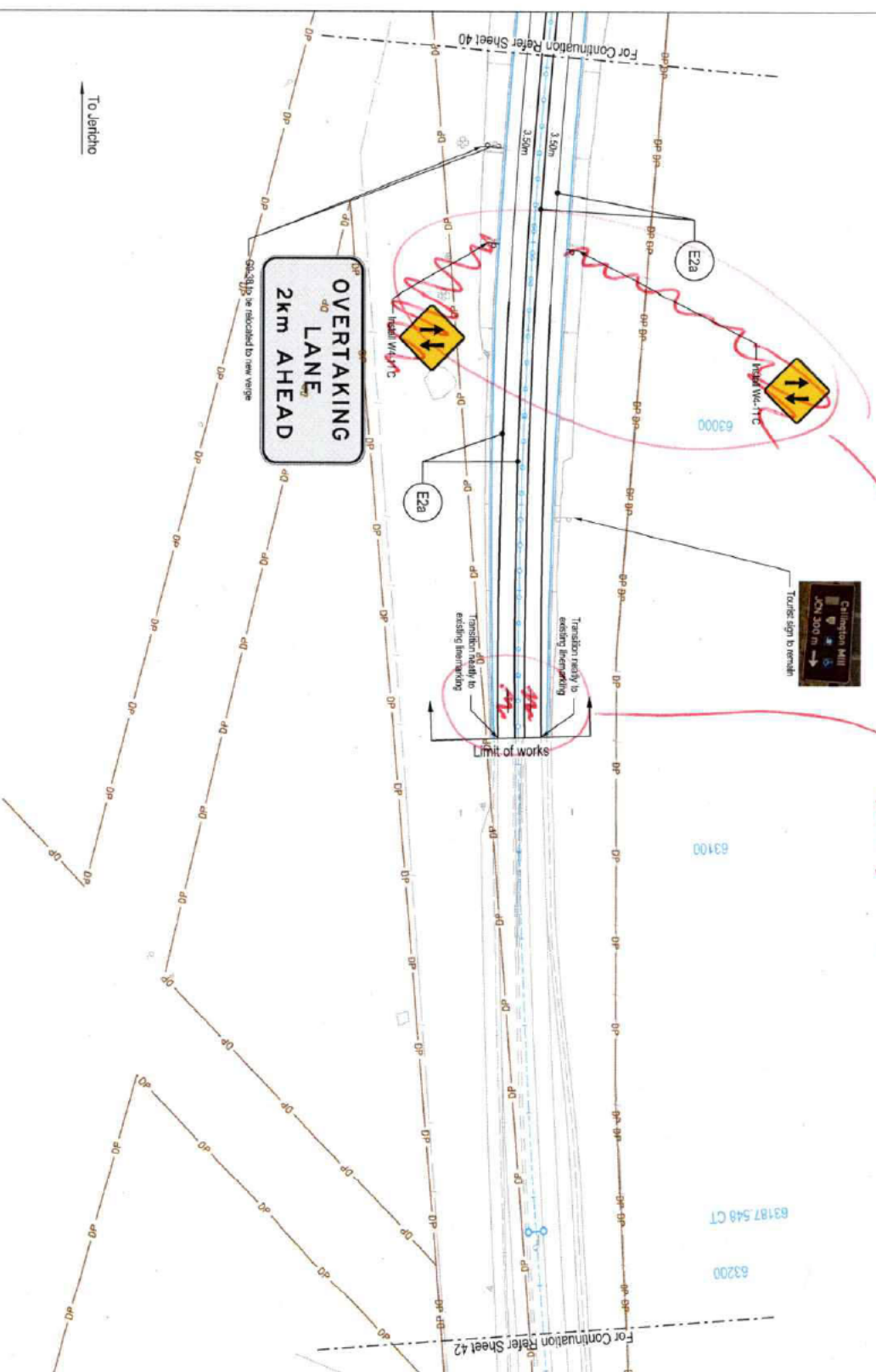
Department of State Growth  
MD/LAND HIGHWAY (A0087)  
10 YEAR ACTION PLAN  
JERICO TO YORK PLAINS  
SIGNAGE AND PAVEMENT MARKING PLAN  
SHEET 30

CONTRACT NO.	3169	DRAWING NO.	IS262319-0A1-3000-CR-DRG-4830	PRINTED DATE	3/9/2021	SHEET NO.	4830
REGISTRATION NUMBER	A0087.XXX	REVISION	2A				









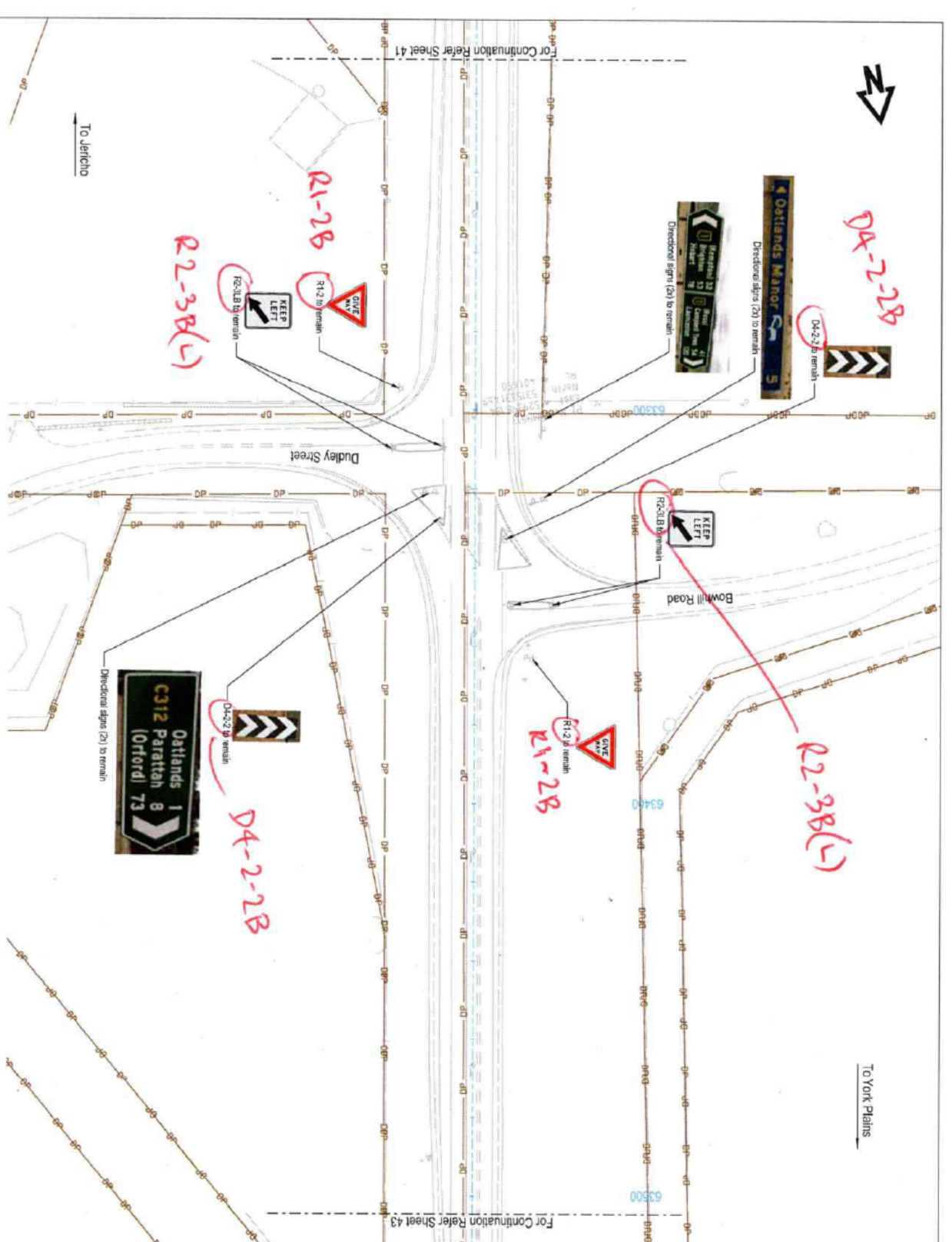
*Not needed here.  
Intersection/Right turn lanes  
fairly self evident.*

To Jericho

To York Plains

NOT FOR CONSTRUCTION	
REVISED REFERENCE DESIGN	
<p><b>Notes</b></p> <ol style="list-style-type: none"> <li>The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.</li> <li>Align new pavement markings with existing pavement markings at limits of work.</li> <li>Reconfigure pavement markings and striping are to be removed to leave a clear, unobstructed pavement with a surface texture, reflective characteristics and color comparable to adjacent pavement surfaces.</li> <li>Refer to the following documents for pavement markings:           <ul style="list-style-type: none"> <li>SD-81-011, 012, 024 and SD-84-011</li> <li>Pavement markings are to be:</li> </ul> </li> <li>Thermoplastic on asphalt wearing surfaces UNO.</li> <li>Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.</li> <li> Chevrons are to be waterborne paint.</li> <li> Audiobell markings shall be Type A for asphalt &amp; Type B for sprayed seals.</li> <li> Straight pavement arrows used for defining two-way traffic shall be 8m in length.</li> <li> Arrow spacing as per DSG standard drawing SD-84-018 unless noted otherwise.</li> <li> From the RTA's and guide posts in accordance with State Growth standard drawings and the specification.</li> <li> All existing signs shall be removed or relocated as directed on drawings unless noted otherwise.</li> <li> New signs to be installed and existing signs to be retained as per State Growth standard drawings 3403-0724, 3403-0727, 3403-0728, 3403-0729, 3403-0730, 3403-0731, 3403-0732, 3403-0733, 3403-0734, 3403-0735, 3403-0736, 3403-0737, 3403-0738, 3403-0739, 3403-0740, 3403-0741, 3403-0742, 3403-0743, 3403-0744, 3403-0745, 3403-0746, 3403-0747, 3403-0748, 3403-0749, 3403-0750, 3403-0751, 3403-0752, 3403-0753, 3403-0754, 3403-0755, 3403-0756, 3403-0757, 3403-0758, 3403-0759, 3403-0760, 3403-0761, 3403-0762, 3403-0763, 3403-0764, 3403-0765, 3403-0766, 3403-0767, 3403-0768, 3403-0769, 3403-0770, 3403-0771, 3403-0772, 3403-0773, 3403-0774, 3403-0775, 3403-0776, 3403-0777, 3403-0778, 3403-0779, 3403-0780, 3403-0781, 3403-0782, 3403-0783, 3403-0784, 3403-0785, 3403-0786, 3403-0787, 3403-0788, 3403-0789, 3403-0790, 3403-0791, 3403-0792, 3403-0793, 3403-0794, 3403-0795, 3403-0796, 3403-0797, 3403-0798, 3403-0799, 3403-0800.</li> <li> For road cross sections refer series 1100.</li> <li> For typical cross sections refer series 1100.</li> <li> For sign spacing refer to series 0900.</li> <li> For sign spacing refer to series 0900.</li> </ol>	
<p><b>Warnings</b></p> <p>The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.</p>	

<p>Department of State Growth MIDLAND HIGHWAY (A0087) 10 YEAR ACTION PLAN JERICHOTO YORK PLAINS SIGNAGE AND PAVEMENT MARKING PLAN SHEET 41</p>	
<p>CONTRACT NO. 3189</p>	<p>PRINTED DATE 3/9/2021</p>
<p>DRAWING NO. IS262319-0AT-3000-CR-DRG-4441</p>	<p>SHEET NO. 4841</p>
<p>REGISTRATION NUMBER A0087.XXX</p>	<p>REVISION 2A</p>
<p>DESIGNED <b>Jacobs</b></p>	
<p>REVIEWED <b>Out of Scope</b></p>	
<p>SCALES</p> <p>0 10 20 30 40 50m</p> <p>SCALE 1:1000 (AS)</p>	
<p>2A REVISED REFERENCE DESIGN 1B TECHNICAL REVIEW 1A RED REVIEW</p> <p>JLE 30/03/21 JLE 02/02/21 JLE 11/01/21</p>	
<p>Amendment Description Initials Date</p>	
<p>Coordinates System: GDA114263 Height Datum: AHD</p>	
<p>This sheet may be prepared using colour and may be incomplete if copied.</p>	
<p>client:\paramet\3040450428\IS262319-0AT-3000-CR-DRG-4441.dgn</p>	



3/6/2021 5:15:43 PM

2A	REVISED REFERENCE DESIGN	J.E.	10/00/21
1B	TECHNICAL REVIEW	J.E.	02/02/21
1A	RED REVIEW	J.E.	11/01/21

No.	Amendment Description	Initials	Date
A1	This sheet may be prepared using color and may be incorporated if copied.		

SCALES

0 10 20 30 40 50m

SCALE 1:1000 (AS)

Coordinate System: GDA11 MADS

Height Datum: AHD

**Jacobs**

Department of State Growth

MIDLAND HIGHWAY (A0087)  
10 YEAR ACTION PLAN  
JERICHO TO YORK PLAINS  
SIGNAGE AND PAVEMENT MARKING PLAN  
SHEET 12

CONTRACT NO.	3169
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DRAWING NO.	IS262319-0A1-3000-CR-DRC-4942	PRINTED DATE	3/9/2021
REGISTRATION NUMBER	A0087.XXX	SHEET NO.	4842
		REVISION	2A

**NOT FOR CONSTRUCTION**

**REVISED REFERENCE DESIGN**

**Notes**

- The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and locations.
- Align new pavement markings with existing pavement markings in limits of work.
- Relocate pavement markings and RRP4's are to be removed to leave a clean, unobstructed pavement with a surface texture, reflective characteristics and color comparable to adjacent pavement surface.
- Refer to Department of State Growth standard drawings SD-34-011 for pavement markings.
- Refer to Department of State Growth standard drawings SD-34-011 for pavement markings.
- 5.1. Thermoplastic on special wearing surfaces UNCO.
- 5.2. Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.
- 5.3. Chevrons are to be white/cream paint.
- 5.4. Audio-lecture markings shall be Type A or asphalt & Type B for sprayed seal.
- 5.5. Straight pavement arrows used for defining one-way traffic shall be 8m in length.
- Arrow spacing as per DSC standard drawing SD-94-018 unless noted otherwise.
- Provide RRP4's and guide posts in accordance with State Growth standard drawings and the specifications.
- Regulator and warning signs to be size 'B' unless noted otherwise.
- Signs to be installed on existing or relocated as detailed on drawings unless noted otherwise.
- Now signs to be installed and existing signs to be relocated as per State Growth standard drawings 3406-024, 3403-027, 1 & 3403-025-2.
- New guide sign 'beams' shall be manufactured in accordance with the design provided.
- Signs located in medians and traffic islands to be installed using Soco-Deck or similar approved and fixed with anti theft bolts.
- Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to Verbruggen design note TDV-06-10 for a list of accepted products. Posts complying with AS17422 will also be accepted.
- For road cross sections refer series 1100.
- For road cross sections refer series 9000.
- For signage schedule refer to series 4930.

**Warnings**

Beware of Underground Services  
The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**Legend**

- Line (wall) (L)
- Edge mural (E2 & E2a)
- Edge curbline (wall) (EC2)
- Centreline (C)
- Barrier (both directions) (BS)
- Continuous curbline (CC)
- Continuous curbline (CO)
- Holding (HL)
- Arrow - merge (real)
- Arrow - Turn (real)
- Arrow - Straight Ahead
- Line marking identification code
- Existing sign (large)
- Existing sign (single)
- Proposed sign (large)
- Proposed sign (single)
- Proposed sign (double)
- Proposed sign (double)
- Functional Design
- Proposed Fence line
- Property boundary

For Continuation Refer Sheet 41

For Continuation Refer Sheet 43

To Jericho

To York Plains

Outlands Manor

Outlands 1  
C312 Parramah 8  
Orford 73

R12-2B

R2-3B(L)

D4-2-2B

KEEP LEFT

KEEP LEFT

Directional signs (D4) to remain

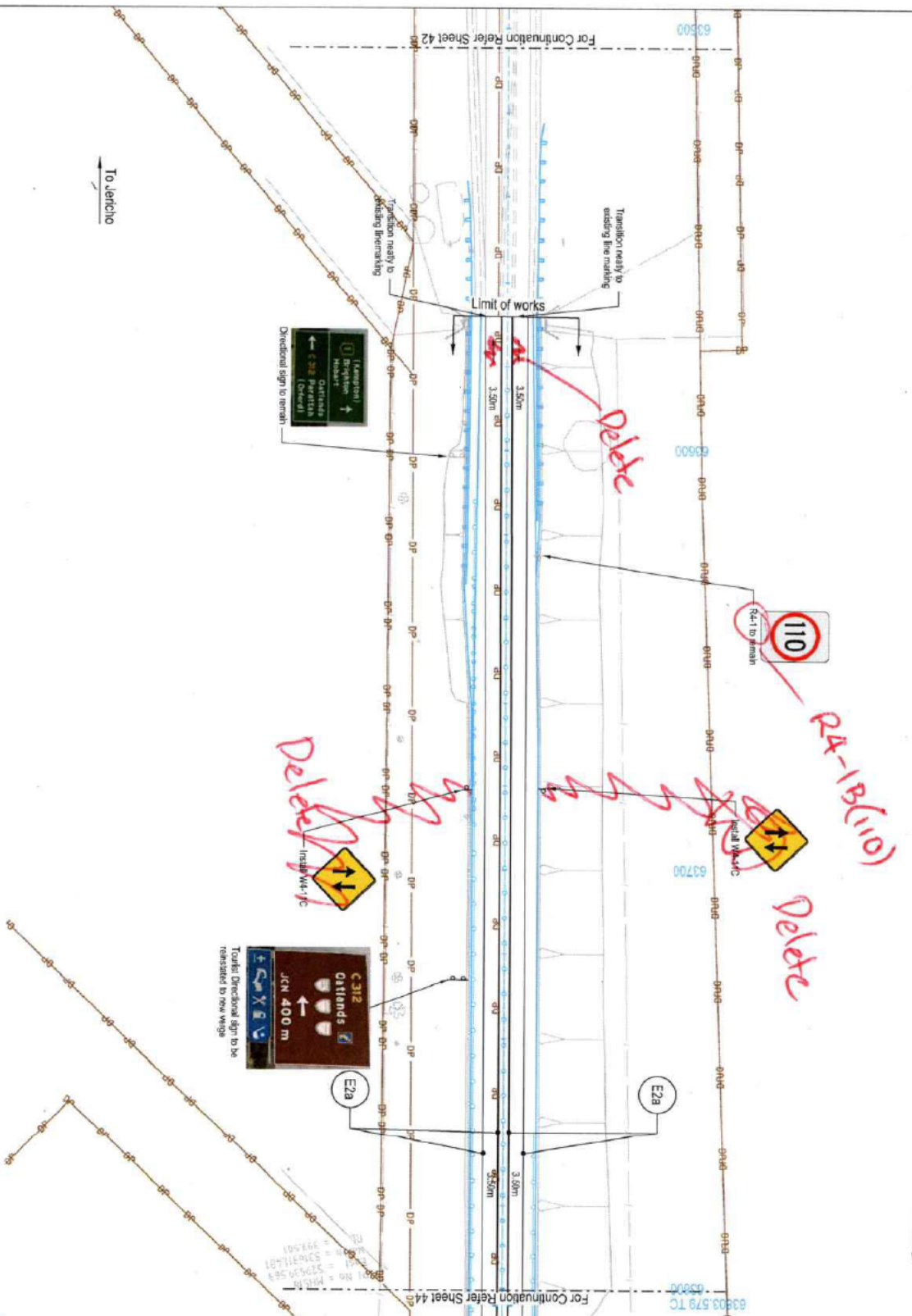
Directional signs (D4) to remain

Directional signs (D4) to remain

63300

63300

0+00 0+10 0+20 0+30 0+40 0+50 0+60 0+70 0+80 0+90 1+00 1+10 1+20 1+30 1+40 1+50 1+60 1+70 1+80 1+90 2+00 2+10 2+20 2+30 2+40 2+50 2+60 2+70 2+80 2+90 3+00 3+10 3+20 3+30 3+40 3+50 3+60 3+70 3+80 3+90 4+00 4+10 4+20 4+30 4+40 4+50 4+60 4+70 4+80 4+90 5+00 5+10 5+20 5+30 5+40 5+50 5+60 5+70 5+80 5+90 6+00 6+10 6+20 6+30 6+40 6+50 6+60 6+70 6+80 6+90 7+00 7+10 7+20 7+30 7+40 7+50 7+60 7+70 7+80 7+90 8+00 8+10 8+20 8+30 8+40 8+50 8+60 8+70 8+80 8+90 9+00 9+10 9+20 9+30 9+40 9+50 9+60 9+70 9+80 9+90 10+00 10+10 10+20 10+30 10+40 10+50 10+60 10+70 10+80 10+90 11+00 11+10 11+20 11+30 11+40 11+50 11+60 11+70 11+80 11+90 12+00 12+10 12+20 12+30 12+40 12+50 12+60 12+70 12+80 12+90 13+00 13+10 13+20 13+30 13+40 13+50 13+60 13+70 13+80 13+90 14+00 14+10 14+20 14+30 14+40 14+50 14+60 14+70 14+80 14+90 15+00 15+10 15+20 15+30 15+40 15+50 15+60 15+70 15+80 15+90 16+00 16+10 16+20 16+30 16+40 16+50 16+60 16+70 16+80 16+90 17+00 17+10 17+20 17+30 17+40 17+50 17+60 17+70 17+80 17+90 18+00 18+10 18+20 18+30 18+40 18+50 18+60 18+70 18+80 18+90 19+00 19+10 19+20 19+30 19+40 19+50 19+60 19+70 19+80 19+90 20+00 20+10 20+20 20+30 20+40 20+50 20+60 20+70 20+80 20+90 21+00 21+10 21+20 21+30 21+40 21+50 21+60 21+70 21+80 21+90 22+00 22+10 22+20 22+30 22+40 22+50 22+60 22+70 22+80 22+90 23+00 23+10 23+20 23+30 23+40 23+50 23+60 23+70 23+80 23+90 24+00 24+10 24+20 24+30 24+40 24+50 24+60 24+70 24+80 24+90 25+00 25+10 25+20 25+30 25+40 25+50 25+60 25+70 25+80 25+90 26+00 26+10 26+20 26+30 26+40 26+50 26+60 26+70 26+80 26+90 27+00 27+10 27+20 27+30 27+40 27+50 27+60 27+70 27+80 27+90 28+00 28+10 28+20 28+30 28+40 28+50 28+60 28+70 28+80 28+90 29+00 29+10 29+20 29+30 29+40 29+50 29+60 29+70 29+80 29+90 30+00 30+10 30+20 30+30 30+40 30+50 30+60 30+70 30+80 30+90 31+00 31+10 31+20 31+30 31+40 31+50 31+60 31+70 31+80 31+90 32+00 32+10 32+20 32+30 32+40 32+50 32+60 32+70 32+80 32+90 33+00 33+10 33+20 33+30 33+40 33+50 33+60 33+70 33+80 33+90 34+00 34+10 34+20 34+30 34+40 34+50 34+60 34+70 34+80 34+90 35+00 35+10 35+20 35+30 35+40 35+50 35+60 35+70 35+80 35+90 36+00 36+10 36+20 36+30 36+40 36+50 36+60 36+70 36+80 36+90 37+00 37+10 37+20 37+30 37+40 37+50 37+60 37+70 37+80 37+90 38+00 38+10 38+20 38+30 38+40 38+50 38+60 38+70 38+80 38+90 39+00 39+10 39+20 39+30 39+40 39+50 39+60 39+70 39+80 39+90 40+00 40+10 40+20 40+30 40+40 40+50 40+60 40+70 40+80 40+90 41+00 41+10 41+20 41+30 41+40 41+50 41+60 41+70 41+80 41+90 42+00 42+10 42+20 42+30 42+40 42+50 42+60 42+70 42+80 42+90 43+00 43+10 43+20 43+30 43+40 43+50 43+60 43+70 43+80 43+90 44+00 44+10 44+20 44+30 44+40 44+50 44+60 44+70 44+80 44+90 45+00 45+10 45+20 45+30 45+40 45+50 45+60 45+70 45+80 45+90 46+00 46+10 46+20 46+30 46+40 46+50 46+60 46+70 46+80 46+90 47+00 47+10 47+20 47+30 47+40 47+50 47+60 47+70 47+80 47+90 48+00 48+10 48+20 48+30 48+40 48+50 48+60 48+70 48+80 48+90 49+00 49+10 49+20 49+30 49+40 49+50 49+60 49+70 49+80 49+90 50+00 50+10 50+20 50+30 50+40 50+50 50+60 50+70 50+80 50+90 51+00 51+10 51+20 51+30 51+40 51+50 51+60 51+70 51+80 51+90 52+00 52+10 52+20 52+30 52+40 52+50 52+60 52+70 52+80 52+90 53+00 53+10 53+20 53+30 53+40 53+50 53+60 53+70 53+80 53+90 54+00 54+10 54+20 54+30 54+40 54+50 54+60 54+70 54+80 54+90 55+00 55+10 55+20 55+30 55+40 55+50 55+60 55+70 55+80 55+90 56+00 56+10 56+20 56+30 56+40 56+50 56+60 56+70 56+80 56+90 57+00 57+10 57+20 57+30 57+40 57+50 57+60 57+70 57+80 57+90 58+00 58+10 58+20 58+30 58+40 58+50 58+60 58+70 58+80 58+90 59+00 59+10 59+20 59+30 59+40 59+50 59+60 59+70 59+80 59+90 60+00 60+10 60+20 60+30 60+40 60+50 60+60 60+70 60+80 60+90 61+00 61+10 61+20 61+30 61+40 61+50 61+60 61+70 61+80 61+90 62+00 62+10 62+20 62+30 62+40 62+50 62+60 62+70 62+80 62+90 63+00 63+10 63+20 63+30 63+40 63+50 63+60 63+70 63+80 63+90 64+00 64+10 64+20 64+30 64+40 64+50 64+60 64+70 64+80 64+90 65+00 65+10 65+20 65+30 65+40 65+50 65+60 65+70 65+80 65+90 66+00 66+10 66+20 66+30 66+40 66+50 66+60 66+70 66+80 66+90 67+00 67+10 67+20 67+30 67+40 67+50 67+60 67+70 67+80 67+90 68+00 68+10 68+20 68+30 68+40 68+50 68+60 68+70 68+80 68+90 69+00 69+10 69+20 69+30 69+40 69+50 69+60 69+70 69+80 69+90 70+00 70+10 70+20 70+30 70+40 70+50 70+60 70+70 70+80 70+90 71+00 71+10 71+20 71+30 71+40 71+50 71+60 71+70 71+80 71+90 72+00 72+10 72+20 72+30 72+40 72+50 72+60 72+70 72+80 72+90 73+00 73+10 73+20 73+30 73+40 73+50 73+60 73+70 73+80 73+90 74+00 74+10 74+20 74+30 74+40 74+50 74+60 74+70 74+80 74+90 75+00 75+10 75+20 75+30 75+40 75+50 75+60 75+70 75+80 75+90 76+00 76+10 76+20 76+30 76+40 76+50 76+60 76+70 76+80 76+90 77+00 77+10 77+20 77+30 77+40 77+50 77+60 77+70 77+80 77+90 78+00 78+10 78+20 78+30 78+40 78+50 78+60 78+70 78+80 78+90 79+00 79+10 79+20 79+30 79+40 79+50 79+60 79+70 79+80 79+90 80+00 80+10 80+20 80+30 80+40 80+50 80+60 80+70 80+80 80+90 81+00 81+10 81+20 81+30 81+40 81+50 81+60 81+70 81+80 81+90 82+00 82+10 82+20 82+30 82+40 82+50 82+60 82+70 82+80 82+90 83+00 83+10 83+20 83+30 83+40 83+50 83+60 83+70 83+80 83+90 84+00 84+10 84+20 84+30 84+40 84+50 84+60 84+70 84+80 84+90 85+00 85+10 85+20 85+30 85+40 85+50 85+60 85+70 85+80 85+90 86+00 86+10 86+20 86+30 86+40 86+50 86+60 86+70 86+80 86+90 87+00 87+10 87+20 87+30 87+40 87+50 87+60 87+70 87+80 87+90 88+00 88+10 88+20 88+30 88+40 88+50 88+60 88+70 88+80 88+90 89+00 89+10 89+20 89+30 89+40 89+50 89+60 89+70 89+80 89+90 90+00 90+10 90+20 90+30 90+40 90+50 90+60 90+70 90+80 90+90 91+00 91+10 91+20 91+30 91+40 91+50 91+60 91+70 91+80 91+90 92+00 92+10 92+20 92+30 92+40 92+50 92+60 92+70 92+80 92+90 93+00 93+10 93+20 93+30 93+40 93+50 93+60 93+70 93+80 93+90 94+00 94+10 94+20 94+30 94+40 94+50 94+60 94+70 94+80 94+90 95+00 95+10 95+20 95+30 95+40 95+50 95+60 95+70 95+80 95+90 96+00 96+10 96+20 96+30 96+40 96+50 96+60 96+70 96+80 96+90 97+00 97+10 97+20 97+30 97+40 97+50 97+60 97+70 97+80 97+90 98+00 98+10 98+20 98+30 98+40 98+50 98+60 98+70 98+80 98+90 99+00 99+10 99+20 99+30 99+40 99+50 99+60 99+70 99+80 99+90 100+00 100+10 100+20 100+30 100+40 100+50 100+60 100+70 100+80 100+90 101+00 101+10 101+20 101+30 101+40 101+50 101+60 101+70 101+80 101+90 102+00 102+10 102+20 102+30 102+40 102+50 102+60 102+70 102+80 102+90 103+00 103+10 103+20 103+30 103+40 103+50 103+60 103+70 103+80 103+90 104+00 104+10 104+20 104+30 104+40 104+50 104+60 104+70 104+80 104+90 105+00 105+10 105+20 105+30 105+40 105+50 105+60 105+70 105+80 105+90 106+00 106+10 106+20 106+30 106+40 106+50 106+60 106+70 106+80 106+90 107+00 107+10 107+20 107+30 107+40 107+50 107+60 107+70 107+80 107+90 108+00 108+10 108+20 108+30 108+40 108+50 108+60 108+70 108+80 108+90 109+00 109+10 109+20 109+30 109+40 109+50 109+60 109+70 109+80 109+90 110+00 110+10 110+20 110+30 110+40 110+50 110+60 110+70 110+80 110+90 111+00 111+10 111+20 111+30 111+40 111+50 111+60 111+70 111+80 111+90 112+00 112+10 112+20 112+30 112+40 112+50 112+60 112+70 112+80 112+90 113+00 113+10 113+20 113+30 113+40 113+50 113+60 113+70 113+80 113+90 114+00 114+10 114+20 114+30 114+40 114+50 114+60 114+70 114+80 114+90 115+00 115+10 115+20 115+30 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129+70 129+80 129+90 130+00 130+10 130+20 130+30 130+40 130+50 130+60 130+70 130+80 130+90 131+00 131+10 131+20 131+30 131+40 131+50 131+60 131+70 131+80 131+90 132+00 132+10 132+20 132+30 132+40 132+50 132+60 132+70 132+80 132+90 133+00 133+10 133+20 133+30 133+40 133+50 133+60 133+70 133+80 133+90 134+00 134+10 134+20 134+30 134+40 134+50 134+60 134+70 134+80 134+90 135+00 135+10 135+20 135+30 135+40 135+50 135+60 135+70 135+80 135+90 136+00 136+10 136+20 136+30 136+40 136+50 136+60 136+70 136+80 136+90 137+00 137+10 137+20 137+30 137+40 137+50 137+60 137+70 137+80 137+90 138+00 138+10 138+20 138+30 138+40 138+50 138+60 138+70 138+80 138+90 139+00 139+10 139+20 139+30 139+40 139+50 139+60 139+70 139+80 139+90 140+00 140+10 140+20 140+30 140+40 140+50 140+60 140+70 140+80 140+90 141+00 141+10 141+20 141+30 141+40 141+50 141+60 141+70 141+80 141+90 142+00 142+10 142+20 142+30 142+40 142+50 142+60 142+70 142+80 142+90 143+00 143+10 143+20 143+30 143+40 143+50 143+60 143+70 143+80 143+90 144+00 144+10 144+20 144+30 144+40 144+50 144+60 144+70 144+80 144+90 145+00 145+10 145+20 145+30 145+40 145+50 145+60 145+70 145+80 145+90 146+00 146+10 146+20 146+30 146+40 146+50 146+60 146+70 146+80 146+90 147+00 147+10 147+20 147+30 147+40 147+50 147+60 147+70 147+80 147+90 148+00 148+10 148+20 148+30 148+40 148+50 148+60 148+70 148+80 148+90 149+00 149+10 149+20 149+30 149+40 149+50 149+60 149+70 149+80 149+90 150+00 150+10 150+20 150+30 150+40 150+50 150+60 150+70 150+80 150+90 151+00 151+10 151+20 151+30 151+40 151+50 151+60 151+70 151+80 151+90 152+00 152+10 152+20 152+30 152+40 152+50 152+60 152+70 152+80 152+90 153+00 153+10 153+20 153+30 153+40 153+50 153+60 153+70 153+80 153+90 154+00 154+10 154+20 154+30 154+40 154+50 154+60 154+70 154+80 154+90 155+00 155+10 155+20 155+30 155+40 155+50 155+60 155+70 155+80 155+90 156+00 156+10 156+20 156+30 156+40 156+50 156+60 156+70 156+80 156+90 157+00 157+10 157+20 157+30 157+40 157+50 157+60 157+70 157+80 157+90 158+00 158+10 158+20 158+30 158+40 15



To York Plains

**Legend**

—	Line (rural) (L)
—	Edge continuity (rural) (EC2)
—	Continuity (C)
—	Barrier (both directions) (B)
—	Continuous continuity (CC)
—	Holding (H)
—	Arrow - merge (rural)
—	Arrow - Turn (rural)
—	Arrow - Straight Ahead
—	Labeling Identification code
—	Existing sign (large)
—	Existing sign (small)
—	Proposed sign (large)
—	Proposed sign (small)
—	Proposed sign (double)
—	Functional Design
—	Proposed Fence line
—	Property boundary

**Notes**

- The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
- Align new pavement marking with existing pavement markings at limits of work.
- Reinforced pavement markings and RRPA's are to be removed to leave a clean, undamaged pavement with a surface texture, reflective characteristics and colour comparable to adjacent pavement surface.
- Pavement markings to Department of State Growth standard drawings SD3-1001 (02), 024 and SD34-011.
- Pavement markings are to be:
  - 5.1. Permitted markings on asphalt wearing surfaces UMAC.
  - 5.2. Discarded markings on asphalt wearing surfaces UMAC.
  - 5.3. Discarded markings on concrete or other non-pavement surfaces.
  - 5.4. Checkered are to be abandoned.
  - 5.5. Auto-bleed markings shall be 'Type A' for asphalt & 'Type B' for sprayed seals.
- Straight pavement arrows used for defining two-way traffic shall be 8m in length.
- Arrow spacing as per DS6 standard drawing SD34-018 unless noted otherwise.
- Provide RRPA's and guide posts in accordance with State Growth standard drawings and the specification.
- Regulatory and warning signs to be size 'B' unless noted otherwise.
- All existing signs are to be removed or relocated as detailed on drawings.
- Where road works are to be removed or relocated as detailed on drawings.
- New road signs to be installed in accordance with the State Growth standard drawings SD3-1001 (02), 024 and SD34-011.
- New guide sign faces shall be manufactured in accordance with the design provided.
- Signs located in medians and traffic islands to be installed using no-coaster or similar approved and fitted with anti theft bolts.
- Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to Wickens design rules RDN-3-16-10 for a list of accepted products. Posts complying with AS1742.2 will also be accepted.
- For typical cross sections refer series 1100.
- For road cross sections refer series 1000.
- For drainage schedule refer to series 4000.

**Warning**  
 The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

2A	REVISED REFERENCE DESIGN	JE	10/03/21
1B	TECHNICAL REVIEW	JE	02/02/21
1A	RED REVIEW	JE	11/01/21

**SCALES**

0 10 20 30 40 50m

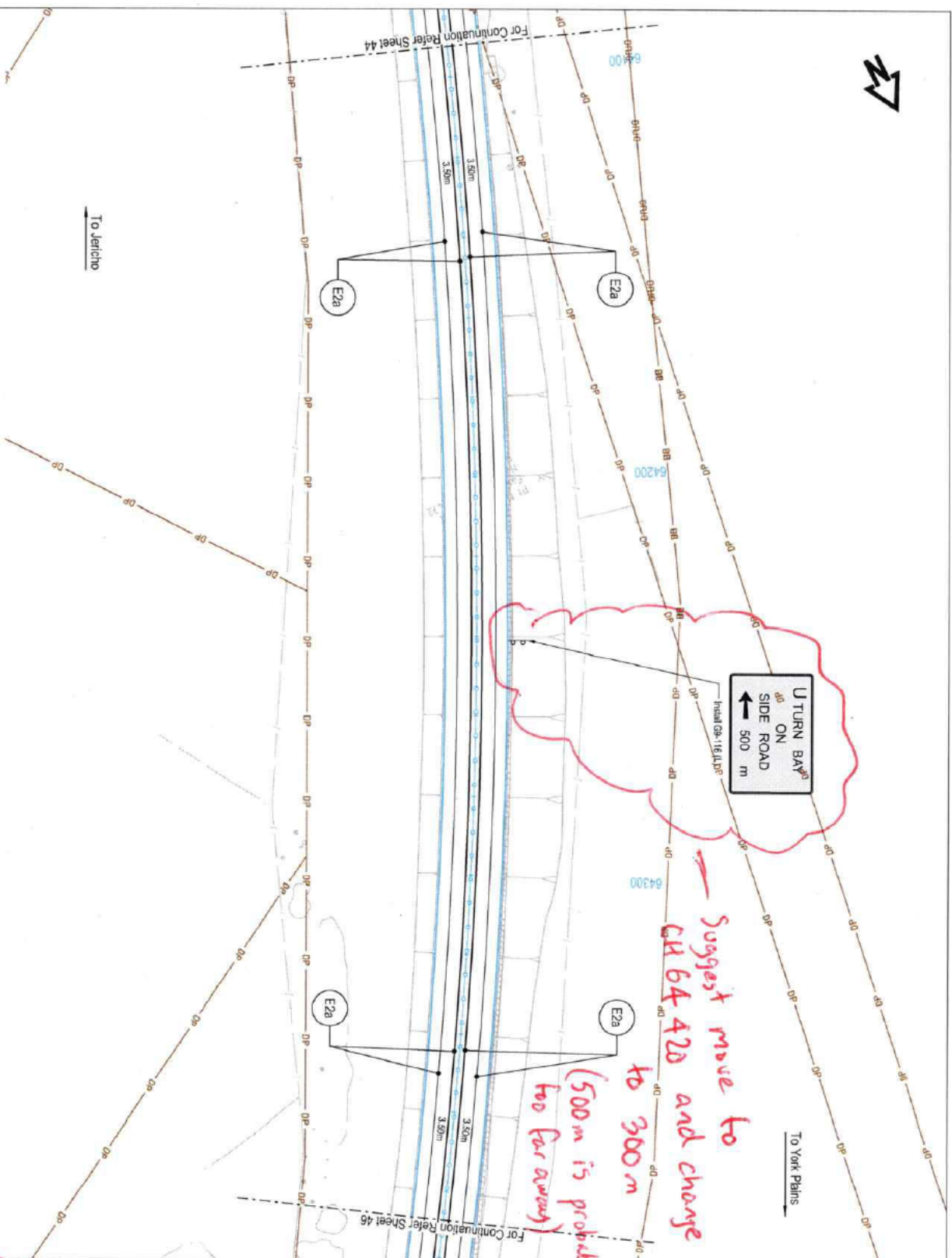
SCALE: 1:1000 (H)

Height: 0mm

**Jacobs**  
 Department of State Growth  
**Out of Scope**

Department of State Growth  
 MIDLAND HIGHWAY (A0087)  
 10 YEAR ACTION PLAN  
 LITCHFIELD TO YORK PLAINS  
 SIGNAGE AND PAVEMENT MARKING PLAN  
 SHEET 43

CONTRACT No.	3169	DRAWING NO.	SR262319-CAT-3000-CR-DRG-4843	PRINTED DATE	3/9/2021	SHEET No.	4843
REGISTRATION NUMBER	A0087.XXX	REVISION	2A				



5:18:42 PM  
3/9/2021

2A	REVISED REFERENCE DESIGN	JE	10/01/21
1B	TECHNICAL REVIEW	JE	02/02/21
1A	RED REVIEW	JE	11/01/21

No.	Amendment Description	Initials	Date
A3	Original		

DESIGNED	<b>Jacobs</b>
REVIEWED	<b>Out of Scope</b>

Department of State Growth  
MIDLAND HIGHWAY (A0087)  
10-YEAR ACTION PLAN  
JERICO TO YORK PLAINS  
SIGNAGE AND PAVEMENT MARKING PLAN  
SHEET 45

CONTRACT NO.	3189
DRAWING NO.	IS282319-A1-3000-CR-DRG-4845
REGISTERED DRAWING NUMBER	A0087.XXX

PRINTED DATE	3/9/2021	SHEET NO.	4845
REVISION	2A		

**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

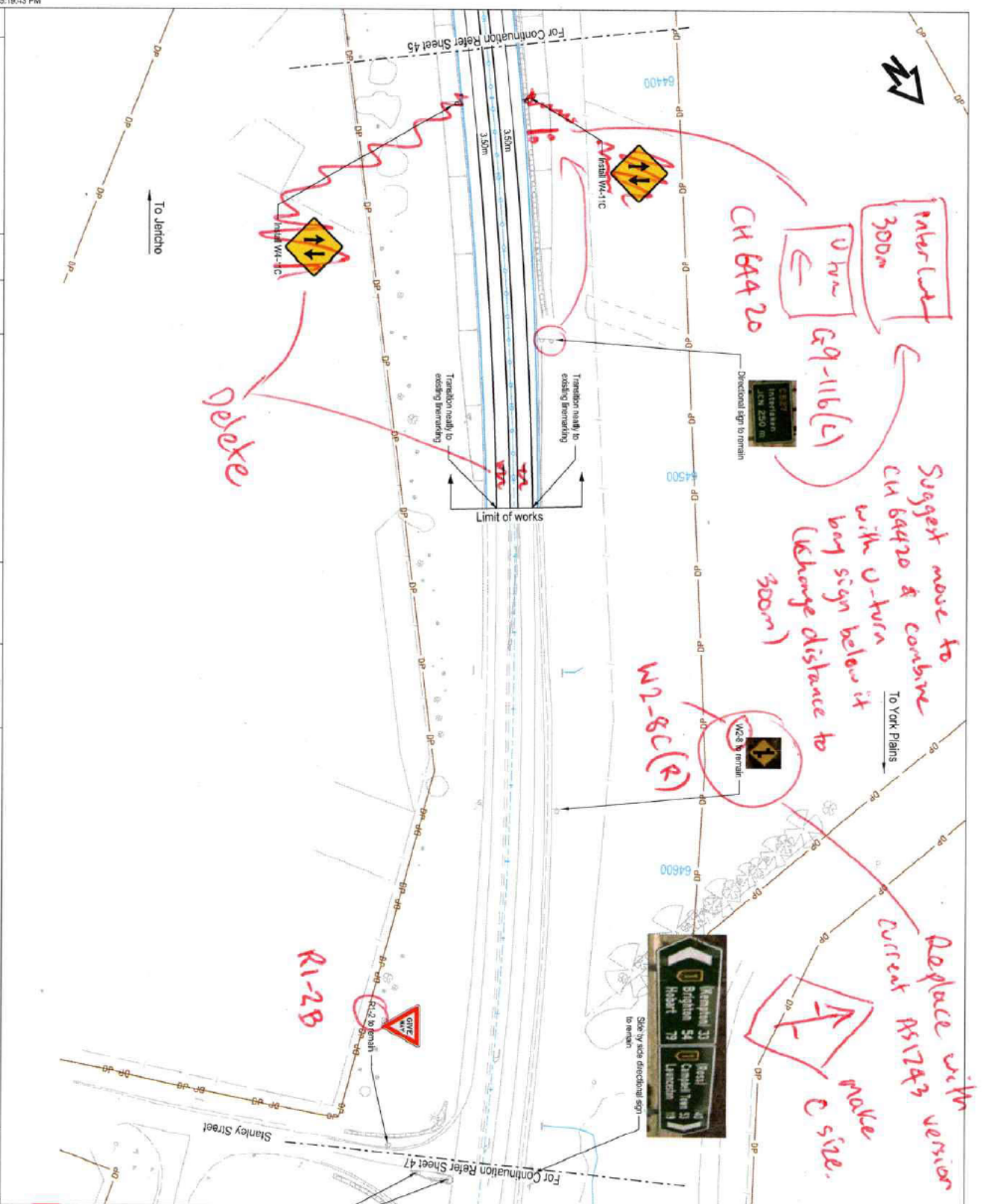
**Warning**  
Beneficial Use/Standard Services  
The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

1. The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and bollards.
2. Align new pavement markings with existing pavement markings at limits of work.
3. Mechanical pavement markings and RPPs are to be removed to leave a smooth surface. New markings shall be installed in accordance with the design and colour coding as per the State Growth Pavement Markings and Colour Coding Manual (M20-10) and the State Growth Pavement Markings to Department of State Growth standard drawings SCD-81.001, 002, 003 and SCD-84.011.
4. Pavement markings are to be:
  - 5.1. Thermoplastic on asphalt wearing surfaces UNO.
  - 5.2. Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.
  - 5.3. Chevrons are to be reflective paint.
  - 5.4. Audio-tactile markings shall be Type X for asphalt & Type B for sprayed seals.
  - 5.5. Shighri pavement arrows used for defining 'two-way' traffic shall be 8m in length.
5. Arrow spacing as per OGS standard drawing SCD-84.019 unless noted otherwise.
6. Pavement RPPs and guide posts in accordance with the State Growth standard drawings SCD-84.019 and SCD-84.020.
7. Regulatory and warning signs to be 300mm x 300mm unless noted otherwise.
8. All existing signs are to be removed or relocated as directed on drawings unless noted otherwise.
9. New signs to be provided and crossing signs to be reinstated as per State Growth standard drawings SCD-84.022-1, SCD-84.022-2, SCD-84.022-3, SCD-84.022-4, SCD-84.022-5, SCD-84.022-6, SCD-84.022-7, SCD-84.022-8, SCD-84.022-9, SCD-84.022-10, SCD-84.022-11, SCD-84.022-12, SCD-84.022-13, SCD-84.022-14, SCD-84.022-15, SCD-84.022-16, SCD-84.022-17, SCD-84.022-18, SCD-84.022-19, SCD-84.022-20, SCD-84.022-21, SCD-84.022-22, SCD-84.022-23, SCD-84.022-24, SCD-84.022-25, SCD-84.022-26, SCD-84.022-27, SCD-84.022-28, SCD-84.022-29, SCD-84.022-30, SCD-84.022-31, SCD-84.022-32, SCD-84.022-33, SCD-84.022-34, SCD-84.022-35, SCD-84.022-36, SCD-84.022-37, SCD-84.022-38, SCD-84.022-39, SCD-84.022-40, SCD-84.022-41, SCD-84.022-42, SCD-84.022-43, SCD-84.022-44, SCD-84.022-45, SCD-84.022-46, SCD-84.022-47, SCD-84.022-48, SCD-84.022-49, SCD-84.022-50, SCD-84.022-51, SCD-84.022-52, SCD-84.022-53, SCD-84.022-54, SCD-84.022-55, SCD-84.022-56, SCD-84.022-57, SCD-84.022-58, SCD-84.022-59, SCD-84.022-60, SCD-84.022-61, SCD-84.022-62, SCD-84.022-63, SCD-84.022-64, SCD-84.022-65, SCD-84.022-66, SCD-84.022-67, SCD-84.022-68, SCD-84.022-69, SCD-84.022-70, SCD-84.022-71, SCD-84.022-72, SCD-84.022-73, SCD-84.022-74, SCD-84.022-75, SCD-84.022-76, SCD-84.022-77, SCD-84.022-78, SCD-84.022-79, SCD-84.022-80, SCD-84.022-81, SCD-84.022-82, SCD-84.022-83, SCD-84.022-84, SCD-84.022-85, SCD-84.022-86, SCD-84.022-87, SCD-84.022-88, SCD-84.022-89, SCD-84.022-90, SCD-84.022-91, SCD-84.022-92, SCD-84.022-93, SCD-84.022-94, SCD-84.022-95, SCD-84.022-96, SCD-84.022-97, SCD-84.022-98, SCD-84.022-99, SCD-84.022-100.
10. For special cases contact the design team.
11. For signage schedule refer to sheet A0087.

**Notes**

**Legend**

- Lane (front) (L)
- Edge continuity (E2 & E3a)
- Edge continuity (front) (E2)
- Continuity (C)
- Barrier (both directions) (B)
- Continuous continuity (CC)
- Holding (H)
- Arrow - merge (front)
- Arrow - Turn (front)
- Arrow - Straight Ahead
- Lane marking identification code
- Existing sign (large)
- Existing sign (single)
- Proposed sign (large)
- Proposed sign (single)
- Proposed sign (double)
- Functional Design
- Property Boundary

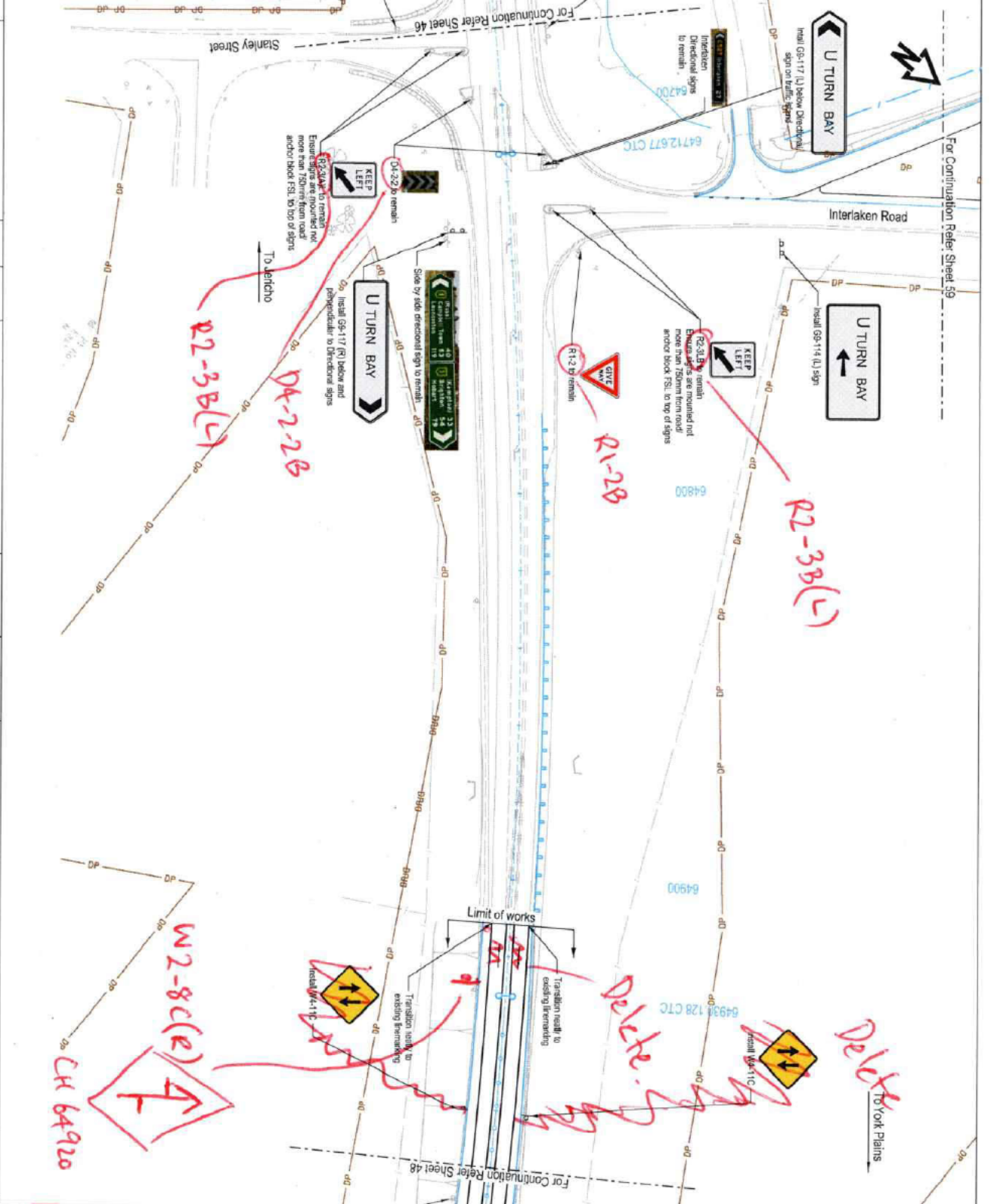


- Legend**
- Lane (wall) (L)
  - Edge (wall) (E & E2)
  - Edge continuity (wall) (EC2)
  - Continuity (C)
  - Barrier (both directions) (B)
  - Continuity continuity (CC)
  - Holding (H)
  - Arrow - merge (wall)
  - Arrow - Turn (wall)
  - Arrow - Straight Ahead
  - Lane marking identification code
  - Existing sign (single)
  - Existing sign (double)
  - Proposed sign (single)
  - Proposed sign (double)
  - Proposed sign (height)
  - Proposed sign (width)
  - Fundamental Design
  - Proposed fence line
  - Property boundary
- Notes**
1. The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
  2. Align new pavement markings with existing pavement markings at limits of work.
  3. Redundant pavement markings and RRPMs are to be removed to leave a clear, unobstructed pavement with a surface texture, reflective characteristics and color comparable to adjacent pavement surface.
  4. Refer to Department for State Growth Section 7109 for guide post supply and installation. Refer to Victorian design note: RDN-VIC-10 for a list of accredited products. Posts complying with AS1742.2 will also be accepted.
  5. For road cross sections refer to section 1100.
  6. For road cross sections refer to section 1100.
  7. For signage schedules refer to section 6000.
  8. Arrows used for defining two-way traffic shall be 5m in length.
  9. Arrow spacing as per DSG standard drawing SD-94.018 unless noted otherwise.
  10. Provide RRPMs and guide posts in accordance with State Growth standard drawings and the specification.
  11. Regulatory and warning signs to be size 'B' unless noted otherwise.
  12. Regulatory signs to be removed or relocated as detailed on drawings unless noted otherwise.
  13. New signs to be installed and marking signs to be repositioned as per State Growth standard drawings 3403-972-4, 3403-972-1, & 3403-972-2.
  14. New guide sign 'bees' shall be manufactured in accordance with the design provided.
  15. Signs located in medians and traffic islands to be installed using non-occker or similar approved and filled with anti theft bolts.
  16. Refer to Department for State Growth Section 7109 for guide post supply and installation. Refer to Victorian design note: RDN-VIC-10 for a list of accredited products. Posts complying with AS1742.2 will also be accepted.
  17. For road cross sections refer to section 1100.
  18. For road cross sections refer to section 1100.
  19. For signage schedules refer to section 6000.
- Warnings**
- The location of underground services is approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**NOT FOR CONSTRUCTION**

**REVISED REFERENCE DESIGN**

<b>JACOBS</b> NATIONAL BUILDING GROUP 100021 02/02/21 1/01/21 Amendment Description The sheet may be prepared using colour and may be reproduced if capital		SCALES 0 10 20 30 40 50m SCALE 1:1000 (A0) Height Datum: AHD		Department of State Growth MIDLAND HIGHWAY (A0087) 10 YEAR ACTION PLAN JERICHO TO YORK PLAINS SIGMADE AND PAVEMENT MARKING PLAN SHEET 46		CONTRACT No. 3189 DRAWING NO. IS282319-A01-3000-CR-RG-498 REGISTRATION NUMBER A0087.XXX		PRINTED DATE 3/9/2021 SHEET No. 4846 REVISION 2A	
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NOT FOR CONSTRUCTION REVISED REFERENCE DESIGN	
<p><b>Legend</b></p> <ul style="list-style-type: none"> <li>Line (red) (L)</li> <li>Edge (red) (E2 &amp; E3a)</li> <li>Edge continuity (purple) (E2C2)</li> <li>Continuity (C)</li> <li>Barrier (both directions) (B3)</li> <li>Continuous continuity (CC)</li> <li>Holding (H)</li> <li>Arrow - edge (red)</li> <li>Arrow - Turn (red)</li> <li>Arrow - Straight Ahead</li> <li>Unmarking identification code</li> <li>Existing sign (lamp)</li> <li>Existing sign (single)</li> <li>Proposed sign (large)</li> <li>Proposed sign (single)</li> <li>Proposed sign (double)</li> <li>Functional Design</li> <li>Proposed Fence line</li> <li>Property boundary</li> </ul>	<p><b>NOTES</b></p> <ol style="list-style-type: none"> <li>The contractor shall locate all existing and proposed services prior to any construction related to traffic sign supports and footings.</li> <li>Align new pavement markings with existing pavement markings at limits of work.</li> <li>Remove pavement markings and RPP/PA to be removed to have a den, untagged pavement with a surface texture, reflective characteristics and color comparable to adjacent pavement surface.</li> <li>Remove markings to Department of State Growth standard drawings SPS-81001, 1002, 1006 and SPS-84011.</li> <li>Remove markings to be as per:</li> <li>1. Vertical markings are to be as per:</li> <li>5.1. Directional arrow sign (single) surface UN2.</li> <li>5.2. Directional arrow sign (double) surface UN2.</li> <li>5.3. Chevrons are to be reflective white.</li> <li>5.4. Arrow-head markings shall be Type A for asphalt &amp; Type B for sprayed seals.</li> <li>5.5. Straight pavement arrow used for defining two-way traffic shall be 8m in length.</li> <li>Arrow spacing as per DSG standard drawing SP-84-018 unless noted otherwise.</li> <li>Provide RPP/PA and guide posts in accordance with State Growth standard drawings and the specification.</li> <li>Regulatory and warning signs to be size 'B' unless noted otherwise.</li> <li>All existing signs are to be removed or relocated as detailed on drawings.</li> <li>How signs to be installed and existing signs to be retained as per State Growth standard drawings 30034922-4, 30034927-1, 30034928-2, 30034929-4. New gable sign sizes shall be manufactured in accordance with the design provided.</li> <li>Signs located in medians and traffic islands to be installed using top-soaker or similar approved and fixed with anti theft bolts.</li> <li>Refer to Department for State Growth Section 709 for gable post supply and installation. Refer to VicRoads design note RDN456-10 for a full or accepted products. Posts complying with AS1742.2 will also be accepted.</li> <li>For vertical cross sections refer series 1100.</li> <li>For road cross sections refer series 9000.</li> <li>For signpost schedules refer to series 4000.</li> </ol> <p><b>Warnings</b></p> <p>Removal of Interlaken Road Services The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.</p>

<p>Department of State Growth MIDLAND HIGHWAY (A0087) 10-YEAR ACTION PLAN JERICO TO YORK PLAINS SIGNAGE AND PAVEMENT MARKING PLAN SHEET 47</p>		<p>CONTRACT No. 3169</p>	<p>DRAWING NO. IS292319-0A1-3000-CR-DRG-4847</p>	<p>PRINTED DATE 3/9/2021</p>	<p>SHEET No. 4847</p>
<p>2A REVISED REFERENCE DESIGN 1B TECHNICAL REVIEW 1A RED REVIEW</p>	<p>JE 10/01/21 JE 02/02/21 JE 11/01/21</p>	<p>0 10 20 30 40 50m SCALE 1:1000 (A3)</p>	<p>JACOBS TRANSPORT CONSULTANTS</p>	<p>DESIGNED REVIEWED</p>	<p>REGISTRATION NUMBER A0087.XXX</p>
<p>No. Amendment Description 1 This sheet may be prepared using colour and may be horizontal if copied</p>	<p>Author JE</p>	<p>Height Datum: AHD</p>	<p>Out of Scope</p>	<p>Height Datum: AHD</p>	<p>REVISION 2A</p>







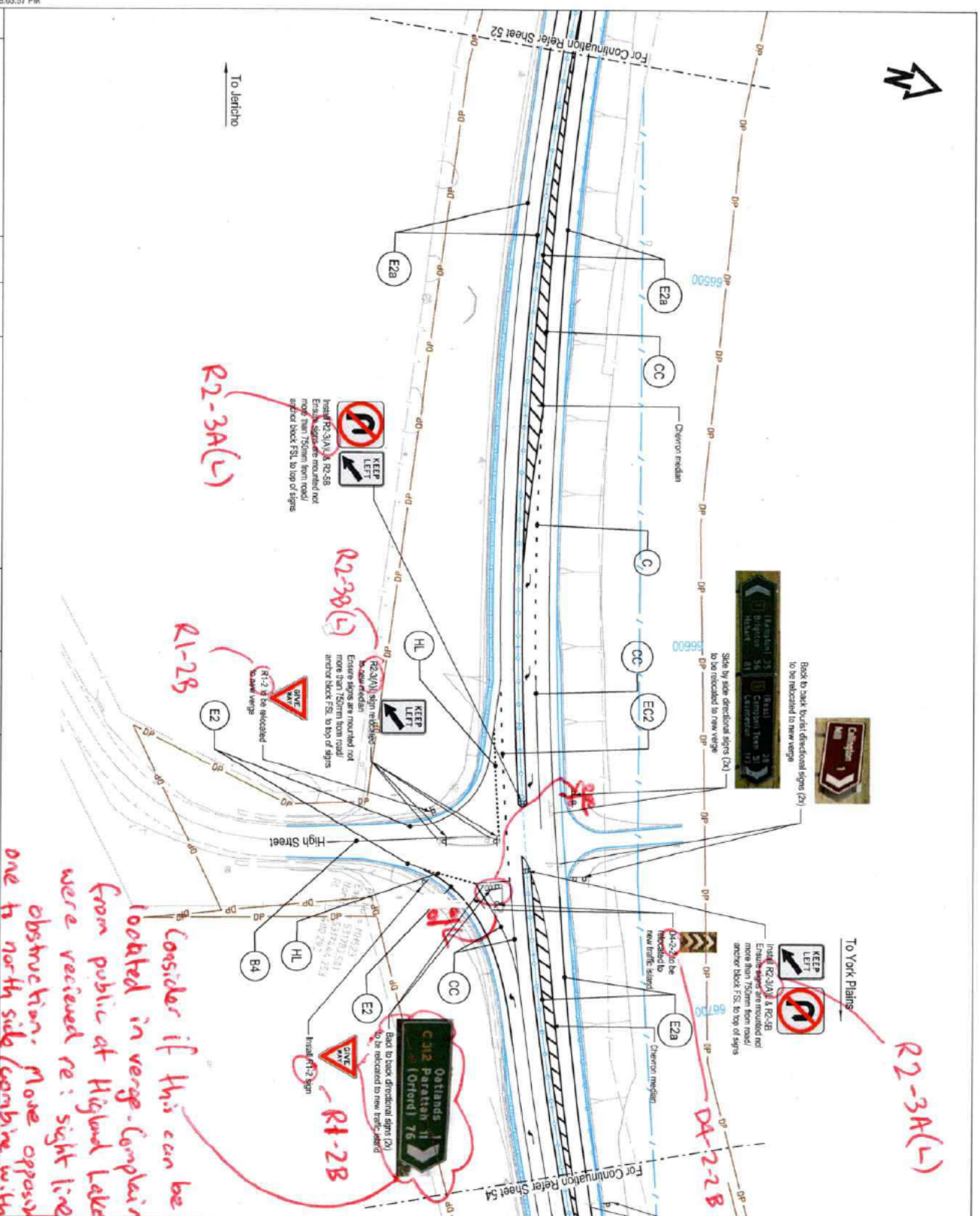
No.	Revision Description	Date
2A	REVISED REFERENCE DESIGN	10/01/21
1B	TECHNICAL REVIEW	02/01/21
1A	RED REVIEW	11/01/21

DESIGNED	Jacobus
REVIEWED	Out of Scope

SCALE	0 10 20 30 40 50m
SCALE	0 10 20 30 40 50m

Department of State Growth  
 MIDLAND HIGHWAY (A0087)  
 10 YEAR ACTION PLAN  
 JERICHO TO YORK PLAINS  
 SIGNAGE AND PAVEMENT MARKING PLAN  
 SHEET 53

DRAWING NO.	IS282319-0A1-3000-CR-DRG-4853	PRINTED DATE	3/9/21
REGISTRATION NUMBER	A0087.XXX	SHEET NO.	4853
CONTRACT NO.	3169	REVISION	2A



**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

**Warning:**  
 The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**Legend**

- Lane (real) (L)
- Edge real (E2 & E2a)
- Edge continuity (real) (EC2)
- Continuity (C)
- Barrier (both directions) (B5)
- Continuous continuity (CC)
- Holding (HL)
- Arrow - merge (real)
- Arrow - Turn (real)
- Arrow - Straight Ahead
- Uppercasing identification code
- Existing sign (single)
- Existing sign (single)
- Proposed sign (single)
- Proposed sign (single)
- Proposed sign (double)
- Functional Design
- Proposed Fence line
- Property boundary

**Notes**

- The contractor shall locate all existing and proposed services prior to any construction related to traffic sign supports and footings.
- Align new pavement markings with existing pavement markings at limits of work.
- Redundant pavement markings and RRP/PA's are to be removed to leave a clean, uncluttered pavement with a surface texture, reflective characteristics and colour compatible to adjacent pavement surfaces.
- Pavement markings to Department of State Growth standard drawings SD-811001, 082, 004 and SD-34-011.
- Pavement markings are to be:
  - 5.1. White
  - 5.2. Directional arrow signs to be retro-reflective or cold applied plastic regardless of wearing surface.
  - 5.3. Chevrons are to be white on asphalt and yellow on concrete.
  - 5.4. Auto-bulbs markings shall be "Type A" for asphalt & "Type B" for sprayed seals.
  - 5.5. Straight pavement chevrons used for defining two-way traffic shall be 8m in length.
- Arrow spacing as per DGS standard drawing SD-84-018 unless noted otherwise.
- Protect RRP/PA's and guide posts in accordance with State Growth standard drawings and the specification.
- Regulation and warning signs to be 800mm round otherwise.
- All existing signs are to be removed or relocated as detailed on drawings.
- How signs to be installed and coding signs to be indicated as per State Growth standard drawings SD-03-02742, SD-03-02721, L 346, SD-02-0242.
- New guide sign faces shall be manufactured in accordance with the design provided.
- Signs located in medians and traffic islands to be installed using back-soder or similar approved anti-flick with anti-flick boots.
- Refer to Department for State Growth Section 7(9) for guide post supply and installation. Refer to VicRoads design notes RDN-06-10 for a list of accepted products. Posts complying with AS1742 will also be accepted.
- For road cross sections refer series 1100.
- For road cross sections refer series 5000.
- For signs schedule refer to series 0800.

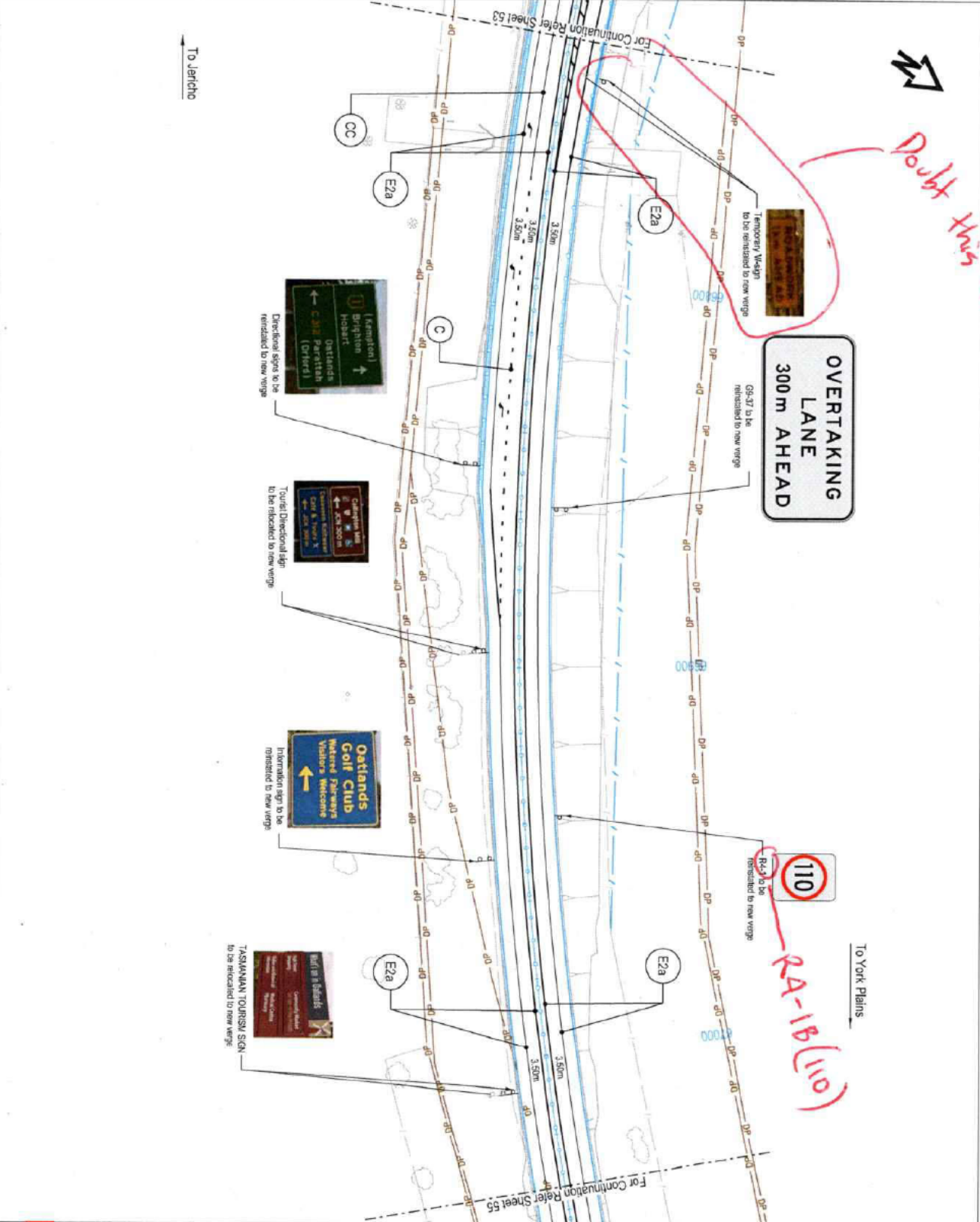
No.	Amendment Description	Initials	Date
2A	REVISED REFERENCE DESIGN	J/E	11/03/21
1B	TECHNICAL REVIEW	J/E	02/02/21
1A	RED REVIEW	J/E	11/01/21

SCALES	
0 10 20 30 40 50m	SCALE 1:1000(FA)
0 10 20 30 40 50m	SCALE 1:1000(FA)

**Jacobs**  
 DESIGNED  
 REVIEWED  
**Out of Scope**

Department of State Growth  
 WILDLAND HIGHWAY (A0087)  
 10 YEAR ACTION PLAN  
 JERICHU TO YORK PLAINS  
 SIGNAGE AND PAVEMENT MARKING PLAN  
 SHEET 54

CONTRACT NO.	3169	DRAWING NO.	IS202319-OAT-3000-CR-DRG-4854	PRINTED DATE	3/9/2021	SHEET NO.	4854
REGISTRATION NUMBER <b>A0087.XXX</b>				REVISION: 2A			



*Doubt this exists*

**NOT FOR CONSTRUCTION**  
 REVISED REFERENCE DESIGN

**Legend**

- Lane (real) (L)
- Edge (real) (E2 & E2a)
- - - Edge (cont'd) / (real) (EC2)
- - - Cont'd (C)
- - - Barrier (both directions) (B)
- - - Continuous continuity (CC)
- ..... Hiding (H)
- Arrow - merge (real)
- Arrow - Turn (real)
- Arrow - Straight Ahead
- Lanes marking identification code
- Existing sign (single)
- Existing sign (single)
- Proposed sign (single)
- Proposed sign (single)
- Proposed sign (double)
- Functional Design
- Proposed Fence line
- Property boundary

**Notes**

- The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
- Align new pavement markings with existing pavement markings at limits of work.
- Relocate pavement markings and RPPV's are to be removed to leave a clean, undamaged pavement with a surface texture, reflective characteristics and colour compatible to adjacent pavement surfaces.
- Pavement markings to Department of State Growth standard drawings SP81.001 / 002.004 and SP84.011.
- Proposed signs are to be:
  - S1. Thermoplastic or to be
  - S2. Dextral (arrow on) to be thermoplastic or cold applied plastic regardless of wearing surface.
  - S3. Chevrons are to be reflective paint.
  - S4. Audio-visual markings shall be 'Type A' for 'stop' & 'Type B' for 'speed' signs.
  - S5. Straight pavement arrows used for defining two-way traffic shall be 8m in length.
- Arrow spacing as per DSG standard drawing SD-84.018 unless noted otherwise.
- Provide RPPV's and guide posts in accordance with State Growth standard drawings and the specification.
- Regulatory and warning signs to be size 'B' unless noted otherwise.
- Warning signs are to be provided or relocated as detailed on drawings.
- New signs to be installed and existing signs to be maintained as per State Growth standard drawings SP03a022d, SP03a027d, SP03a027d, SP03a028d.
- New guide sign bases shall be manufactured in accordance with the design provided.
- Signs located in medians and traffic islands to be installed using 'top-socket' or similar approved and fitted with anti theft bolts.
- Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to VicRoads design note RDN-06-10 for a list of accepted products. Posts complying with AS11742 will also be accepted.
- For typical cross sections refer series 1100.
- For road cross sections refer series 9300.
- For signage schedule refer to series 4900.

**Warranty**

Because of Unrestricted Services  
 The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

27

86-26B

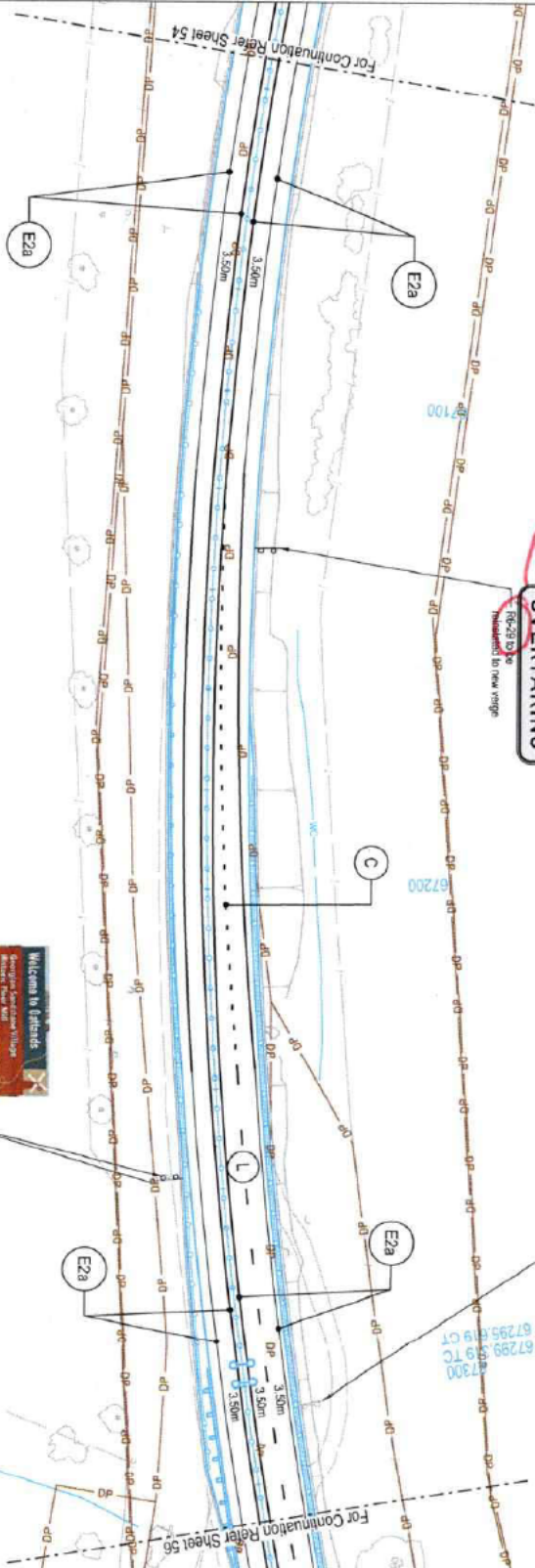
**KEEP LEFT  
UNLESS  
OVERTAKING**

to be removed to new verge

STATE GROWTH ST PETERS PROJECT sign to be removed



To York Plains



Welcomes to Jerricho  
Tasmanian Tourism Sign  
to be relocated to new verge

- Legend**
- Lane (real) (L)
  - Edge (real) (E2 & E2a)
  - Edge continuity (real) (EC2)
  - Continuity (C)
  - Barrier (both directions) (B3)
  - Continuous continuity (CC)
  - Holding (HL)
  - Arrow - Merge (real)
  - Arrow - Turn (real)
  - Arrow - Straight Ahead
  - Unemerging identification code
  - Existing sign (large)
  - Existing sign (single)
  - Proposed sign (large)
  - Proposed sign (single)
  - Proposed sign (double)
  - Functional Design
  - Proposed Fence line
  - Property boundary
- NOTES**
- The contractor shall locate all existing and relocated markers prior to any construction related to traffic sign supports and locations.
  - Align new pavement markings with existing pavement markings at limits of work.
  - Redundant pavement markings and signs are to be removed to leave a clean, uncluttered pavement with a surface having reflective characteristics and colour comparable to adjacent pavement surface.
  - Pavement markings to Department of State Growth standard drawings SD-S1-001, 002, 003 and SD-S4-011.
  - Pavement markings are to be:
    1. Thermoplastic on asphalt wearing surfaces (UNCL)
    2. Thermoplastic on concrete or bituminous concrete or cold applied plastic
    3. Duroton on asphalt wearing surfaces
    4. Duroton on concrete
    - 5.4. Auto-bottle markings shall be Type 'A' for asphalt & Type 'B' for sprayed seal.
    - 5.5. Duroton are to be sealstone white.
    - 5.6. Strategic pavement markings used for defining two-way traffic shall be 8m in length.
  - Arrow spacing as per DS6 standard drawing SD-R4-018 unless noted otherwise.
  - Provide signposts and guide posts in accordance with State Growth standard drawings and the specification.
  - Regulatory and warning signs to be on 'B' unless noted otherwise.
  - All existing signs are to be removed or relocated as detailed on drawings unless noted otherwise.
  - Signs to be installed and existing signs to be relocated as per State Growth standard drawings SD-S2-001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011, 012, 013, 014, 015, 016, 017, 018, 019, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035, 036, 037, 038, 039, 040, 041, 042, 043, 044, 045, 046, 047, 048, 049, 050, 051, 052, 053, 054, 055, 056, 057, 058, 059, 060, 061, 062, 063, 064, 065, 066, 067, 068, 069, 070, 071, 072, 073, 074, 075, 076, 077, 078, 079, 080, 081, 082, 083, 084, 085, 086, 087, 088, 089, 090, 091, 092, 093, 094, 095, 096, 097, 098, 099, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 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980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

**NOT FOR CONSTRUCTION  
REVISED REFERENCE DESIGN**

**NOT FOR CONSTRUCTION  
REVISED REFERENCE DESIGN**

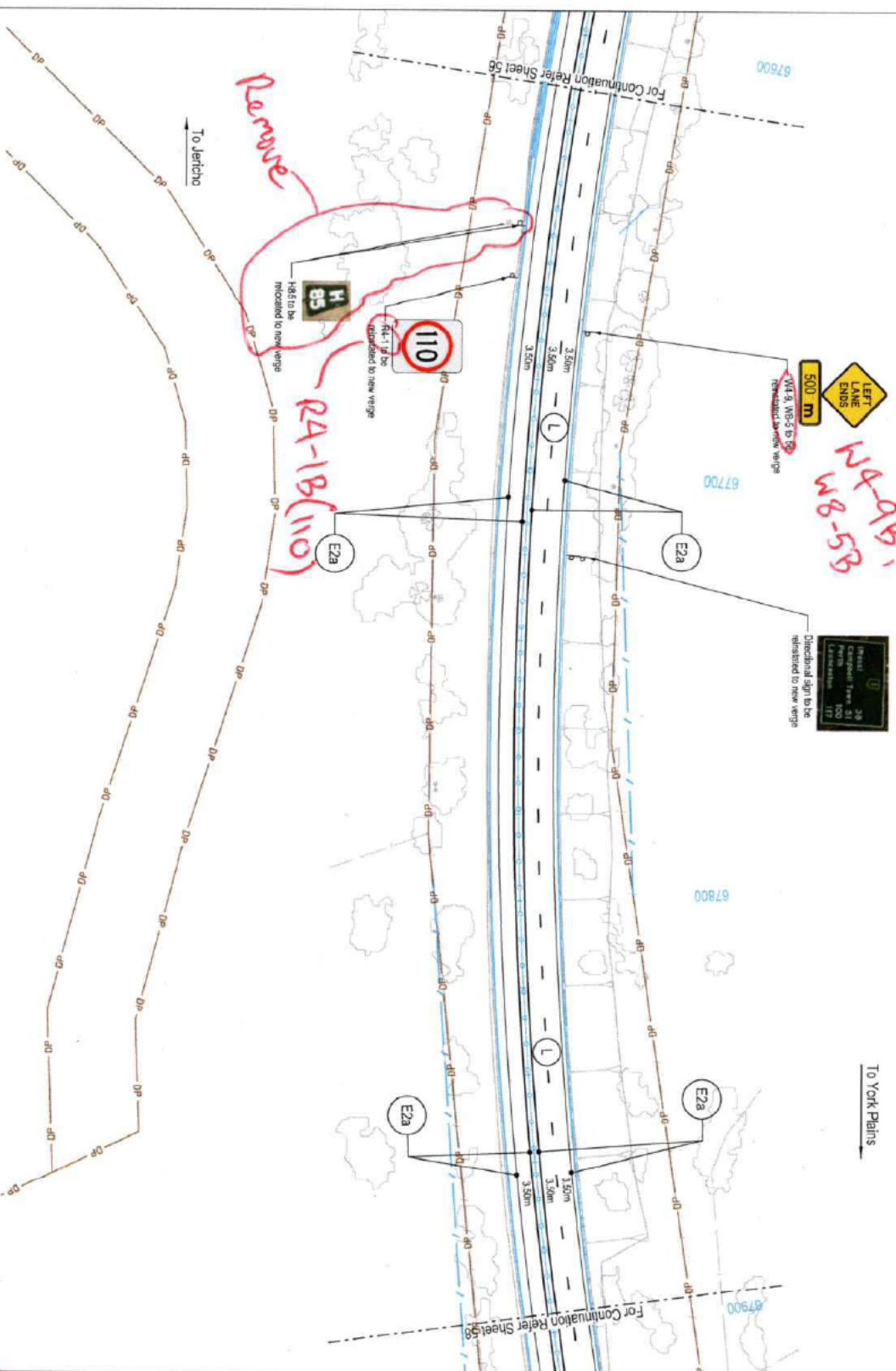
2A	REVISED REFERENCE DESIGN	J.E.	10/03/21
1B	TECHNICAL REVIEW	J.E.	02/03/21
1A	RED REVIEW	J.E.	11/01/21

SCALES	
0 10 20 30 40 50m	Graphic Scale (Horizontal)
0 10 20 30 40 50m	Graphic Scale (Vertical)

**Jacobs**  
Tasmanian  
Consultants  
DESIGNED  
REVIEWED  
**Out of Scope**

Department of State Growth  
MIDLAND HIGHWAY (A0087)  
10 YEAR ACTION PLAN  
JERRICHO TO YORK PLAINS  
SIGNAGE AND PAVEMENT MARKING PLAN  
SHEET 55

CONTRACT NO.	3159	DRAWING NO.	IS262319-04T-3000-CP-DRG-4855	PRINTED DATE	3/9/2021	SHEET NO.	4855
		REGISTRATION NUMBER	A0087.XXX	REVISION	2A		



To York Plains

To Jericho

2A	REVISION	J.E.	10/03/21
2B	TECHNICAL REVIEW	J.E.	02/02/23
1A	REV. REVIEW	J.E.	11/01/21

Amendment Description	Initials	Date
As original		

SCALES	0 10 20 30 40 50m
DESIGNED	Jacobs
REVIEWED	Out of Scope

Department of State Growth  
MIDLAND HIGHWAY (A0087)  
10 YEAR ACTION PLAN  
JERICO TO YORK PLAINS  
SIGNAGE AND PAVEMENT MARKING PLAN  
SHEET 57

CONTRACT NO.	3189
DRAWING NO.	IS29319-04T-3000-CR-DRG-457
PRINTED DATE	3/9/2021
REVISION	2A
SHEET NO.	4857

**NOT FOR CONSTRUCTION**  
**REVISED REFERENCE DESIGN**

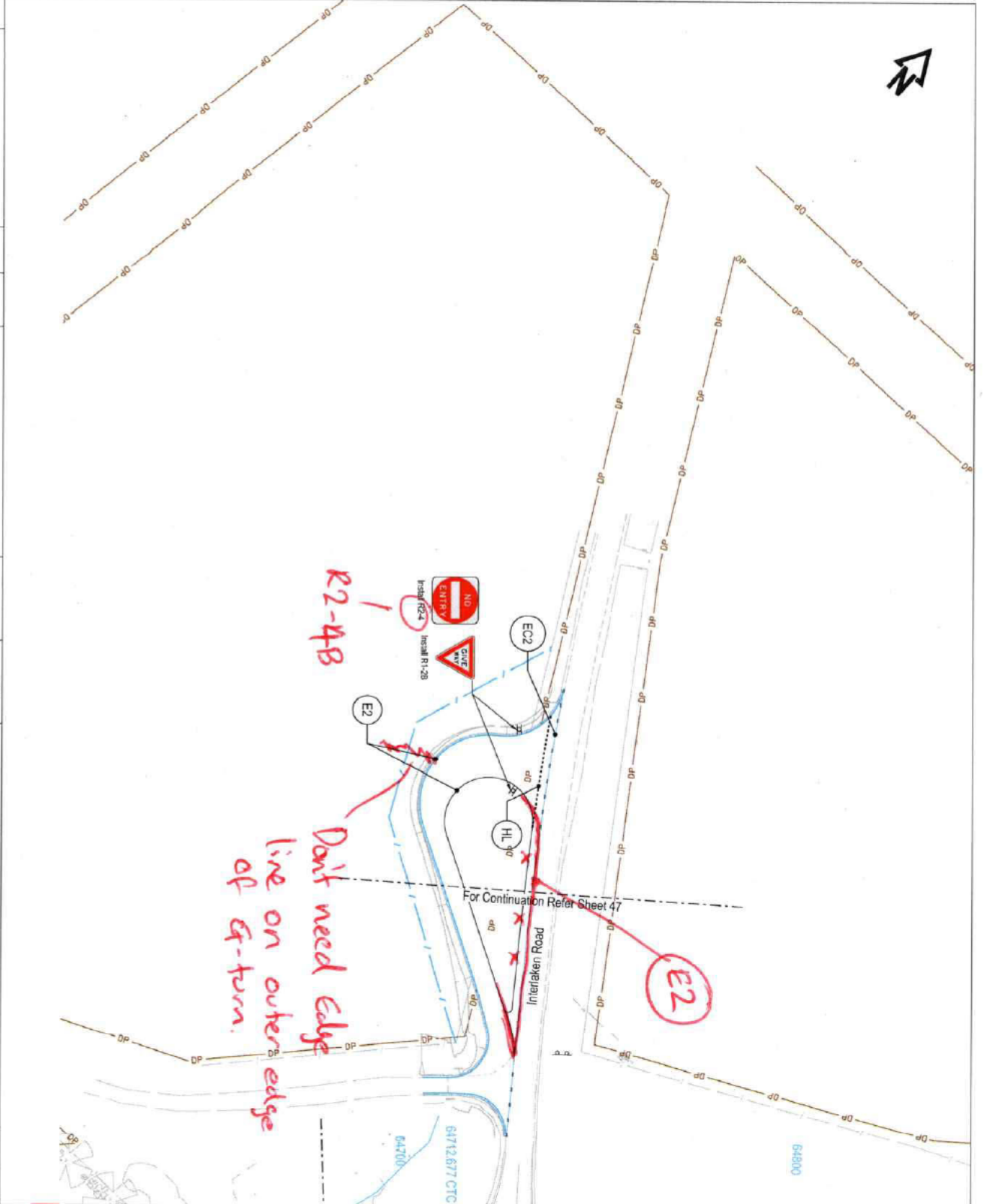
**WARNING**  
The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

1. The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
2. Align new pavement markings with existing pavement markings at limits of work.
3. Reconstruct pavement markings and RPPNs are to be removed to leave a clean, unobstructed pavement with a surface texture, reflective characteristics and color comparable to adjacent pavement surface.
4. New pavement markings shall be applied in accordance with the current edition of the Australian Standard AS1742.2-2011.
5. Pavement markings are to be:
  - 5.1. Thermoplastic on asphalt wearing surfaces (UNO).
  - 5.2. Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.
  - 5.3. Chevrons are to be waterborne paint.
  - 5.4. Auto-scale markings shall be 'Type A' for asphalt & 'Type B' for sprayed seal.
  - 5.5. Straight pavement arrows used for defining 'no-way' traffic shall be 6m in length.
6. Arrow spacing as per DSG standard drawing SDP-4-018 unless noted otherwise.
7. Provide RPPNs and guide posts in accordance with State Growth standard drawings and the specification.
8. Proposals for new signs to be size 'B' unless noted otherwise.
9. All existing signs to be removed or relocated as detailed on drawings unless noted otherwise.
10. New signs to be installed and existing signs to be relocated as per State Growth standard drawings 3403a1P25-4, 3403a1P27-1, & 3403a1P28-2.
11. New guide sign faces shall be manufactured in accordance with the design provided.
12. Signs located in medians and traffic islands to be installed using 'hockicker' or similar approved and fitted with anti theft bolts.
13. Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to WorkRoads design note: R0N406-10 for a list of accepted products. Posts complying with AS1742.2 will also be accepted.
14. For typical cross sections refer series 1100.
15. For road cross sections refer series 9000.
16. For signage standards refer to series 9000.

Legend	Line (oval) (L)
	Edge kerb (E2 & E2a)
	Edge continuity (oval) (ECC2)
	Certerility (C)
	Barrier (both directions) (B3)
	Continuous continuity (CC)
	Hiding (F+L)
	Arrow - (range) (range)
	Arrow - Turn (turn)
	Arrow - Straight Ahead
	Lettering identification code
	Existing sign (large)
	Existing sign (small)
	Proposed sign (large)
	Proposed sign (small)
	Proposed sign (double)
	Functional Design
	Proposed fence line
	Property boundary

3/9/2021 5:30:24 PM

chuserstampan204946428523719-04-3000-CR-DRG-457.dgn



- Legend**
- Lane (real) (L)
  - Edge (real) (E & E2a)
  - Edge continuity (real) (EC2)
  - Continuity (C)
  - Barrier (from direction) (BS)
  - Continuous continuity (CC)
  - Holding (H)
  - Arrow - merge (real)
  - Arrow - Turn (real)
  - Arrow - Straight Ahead
  - Unmarking identification code
  - Existing sign (lamp)
  - Existing sign (single)
  - Proposed sign (flange)
  - Proposed sign (single)
  - Proposed sign (double)
  - Functional Design
  - Proposed Fence line
  - Property Boundary
- Notes**
1. The contractor shall locate all existing and relocated services prior to any construction related to traffic sign supports and footings.
  2. Align new pavement markings with existing pavement markings at limits of work.
  3. Reconfigure pavement markings and RPPMs are to be removed to leave a clear, unobstructed pavement with a surface texture, reflective characteristics and colour comparable to adjacent pavement surface.
  4. Pavement markings to Department of State Growth standard drawings SP-81001, 102, 008 and SC-941011.
  5. Pavement markings to be in accordance with the following:
    - 5.1. Thermoplastic or a hot melt asphaltic surface (LXN.O).
    - 5.2. Directional arrows are to be thermoplastic or cold applied plastic regardless of wearing surface.
    - 5.3. Chevrons are to be white/cream paint.
    - 5.4. Arrow-head markings shall be Type A for separate & Type B for spray-paint.
    - 5.5. Straight pavement arrows used for defining two-way traffic shall be 8m in length.
  6. Arrow spacing as per DSG standard drawing SC-94-018 unless noted otherwise.
  7. Provide RPPM's and guide posts in accordance with State Growth standard drawings and the specification.
  8. Regulator and warning signs to be size 'B' unless noted otherwise.
  9. All existing signs are to be removed or relocated as detailed on drawings unless signs are to be retained.
  10. New signs to be installed and existing signs to be relocated as per State Growth standard drawings 30024922-4, 30024927-1, L, 30024928-2.
  11. New guide sign bases shall be manufactured in accordance with the design provided.
  12. Signs located in medians and traffic islands to be installed using top-sucker or similar approved and fitted with anti theft bolts. Refer to Department for State Growth Section 709 for guide post supply and installation. Refer to WorkRoads design note R2N405-10 for a list of accepted products. Posts complying with AS17422 will also be accepted.
  13. For vertical cross sections refer series 1100.
  14. For road cross sections refer series 9000.
  15. For signage schedules refer to series 4000.
  - 16.
- Warnings**
- Be aware of Underground Services. The location of underground services are approximate only and the exact position should be proven on site. No guarantee is given that all services are shown on these drawings.

**NOT FOR CONSTRUCTION**

**REVISED REFERENCE DESIGN**

3/9/2021		5:32:33 PM	
No.	Amendment Description	Initials	Date
2A	REVISED REFERENCE DESIGN	J.E.	10/03/21
1B	TECHNICAL REVIEW	J.E.	02/02/21
1A	RED REVIEW	J.E.	11/01/21
<p style="font-size: small;">As original    This sheet may be prepared using colour and may be incompatible if copied</p>			
<b>SCALES</b>			
<b>Jacobs</b>			
<p style="font-size: x-small;">DESIGNED    REVIEWED</p>			
<b>Out of Scope</b>			
<p>Department of State Growth</p> <p>MIDLAND HIGHWAY (A0087)</p> <p>10-YEAR ACTION PLAN</p> <p>JERICO TO YORK PLAINS</p> <p>SIGNAGE AND PAVEMENT MARKING PLAN</p> <p>SHEET 59</p>			
CONTRACT No.	3169	DRAWING NO.	IS262319-0A1-3000-CR-FRG-4859
		PRINTED DATE	3/9/2021
		REGISTRATION NUMBER	A0087.XXX
		SHEET No.	4859
		REVISION	2A

**From:** [Out of Scope]@jacobs.com>  
**Sent:** Wednesday, 9 June 2021 4:56 PM  
**To:** [Out of Scope]  
**Cc:** [Out of Scope] Midland Highway Final Stage  
**Subject:** RE: MHFS - Condition Data - Un-treated Junctions/Intersections  
**Attachments:** FW: MHFS - Client Direction Request - Treatment for out of scope pavement areas ; RE: Weekly CTN catchup; MHFS\_DRAFT CDR\_Out of Scope Pavement Areas\_20201220.docx

Hi [Out of Scope]

We have submitted a formal Client Direction Request for this issue previously which details the “out of scope” pavement areas you mention in your email - refer word document attached. The “preferred” option noted in that document is to apply line marking only, as at the time there were concerns on the implications to the overall project budget.

[Out of Scope] then subsequently made some enquiries regarding estimated residual pavement life for those sections, which were answered – see email “treatment of out of scope pavement areas”.

With regards to Cleveland, [Out of Scope] had made some enquiries about seal history which we looked into and forwarded what we found – see email “weekly CTN catch up”.

Hopefully the information attached is what you need to progress within DSG. Let me know if any clarifications are needed.

Best regards

[Out of Scope]

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**From:** [Out of Scope]@stategrowth.tas.gov.au>  
**Sent:** Wednesday, 9 June 2021 2:47 PM  
**To:** [Out of Scope]@jacobs.com>  
**Cc:** [Out of Scope]@stategrowth.tas.gov.au>  
**Subject:** [EXTERNAL] MHFS - Condition Data - Un-treated Junctions/Intersections

Good afternoon [Out of Scope]

As briefly discussed in our design meeting earlier, I'd like to look into all junctions/intersections which are not part of the improvements currently within the design of the MHFS (all sections).

To assist the department in completing this task, can I please ask Jacobs to compile and supply a list of all junctions/intersections which are not currently designed for geometric improvements as part of the works. In addition to this list, can the condition data for each of the junctions be supplied to assist the department in commencing a review and subsequent discussions with the client and Asset team.

It would be greatly appreciated if this list and data could be provided ASAP (perhaps by Wed next week at latest) so as not to delay any potential revisions to the designs currently being developed.

Kind regards

[Out of Scope]

Programming and Delivery Branch | Department of State Growth  
 Level 2, 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001  
 Phone: [Out of Scope]

[www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

DEPARTMENT OF STATE GROWTH COURAGE TO MAKE A DIFFERENCE THROUGH:



Out of Scope



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**From:** [Out of Scope]@jacobs.com>  
**Sent:** Wednesday, 26 May 2021 2:19 PM  
**To:** [Out of Scope]  
**Cc:**  
**Subject:** RE: Weekly CTN catchup  
**Attachments:** GEO\_SEAL\_HISTORY.csv

Thanks [Out of Scope]

I was going to brief you in the meeting on our findings about the seal age and line marking considerations through Cleveland. Please find summary below.

We do have some records on the age of the seal via Spatial Selector, though how up to date the records are is unknown. The records we downloaded are attached with the relevant data in the table below as well as a screenshot of the dataset.

Cleveland is located at Link 74 Ch. 4.5km to 5.7km. The records seem to suggest that there was a reseal through the majority of Cleveland in 2008. But as mentioned, there could have been more reseals since then that have not been accurately captured. **Are you able to reconcile with DSG’s Maintenance Team?**

START_CHNG	END_CHNG	CWAY_CO	LANE_NO	SEAL_DATE	FINAL_SE	SURFACE	AC_DEPTH
5.5	9.17	A		3/02/2012	Y	Flush (spray)	Seal
4.89	5.5	A		14/05/2008	y	Flush (spray)	Seal



With regard to line marking visibility, the existing line marking is a single central median dashed line (S). S line marking type is 3m long, 100mm wide lines spaced 9m apart longitudinally.

New design is double barrier line (B2). B2 line marking type is two continuous (solid) 100mm wide lines spaced 100mm apart horizontally.

If S lines remain visible (to varying degrees depending on success level of removal), road line marking will appear as a solid

300mm wide line for 3m, every 9m. From a safety perspective the objective of the line marking to restrict overtaking movements in either direction through Cleveland will be retained.

Therefore, whether removal of line marking is by water blasting, black paint or obviously by reseal, shouldn't impact drivers or law enforcement.

Regards,

Out of Scope

A large black rectangular redaction box covering the majority of the page content below the signature.


*Make flexibility work - if you receive an email from me outside of normal business hours, it's because I'm sending it at a time that suits me. I'm not expecting you to read it or reply until normal business hours.*

Out of Scope

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# Request for Project Client Direction

## Project Manager to Complete

<b>Project Name:</b>	Midland Highway Final Stages - Oatlands& Campbell Town to Epping Forest
<b>Project Manager:</b>	<b>Out of Scope</b> (Oatlands), <b>Out of Scope</b> (Campbell Town)
<b>Date of Request:</b>	20 December 2020
<b>Request for:</b> <i>Tick all required.</i>	<input type="checkbox"/> Change to Project Scope <input type="checkbox"/> Change to Project Timeframes <input type="checkbox"/> Change to Project Budget <input type="checkbox"/> Contract Variation/Direction <input type="checkbox"/> Approval <input checked="" type="checkbox"/> Direction
<b>Definition of Issue:</b> <i>Please attach any additional documentation, if necessary</i>	<p>Following the Concept Design Review Workshop between Jacobs and the Department of State Growth (DSG) for the Midland Highway Final Stages project, changes were made to the limit of works around intersections for the Oatlands and Campbell Town packages. Based on this, the following intersections with the Midland Highway have been removed from the scope of this project:</p> <ul style="list-style-type: none"> <li>Mud Walls Rd Intersection (Ch. 53640m - Ch. 54020m) – no works are to be undertaken at this intersection due to previous works recently being completed as part of another Midland Highway project (note – some small widening and realignment has been necessitated by the one-sided widening works and overtaking lane north of the intersection)</li> </ul> <p><b>Out of Scope</b></p>  <p>Further discussion around why these intersections were removed is detailed in Section 2.8 of the Oatlands and Campbell Town Reference Design Reports (IS262319-OAT-2000-CR-RPT-0001 &amp; IS262319-CPT-2000-CR-RPT-0001, respectively).</p>

Assessment of the condition of the existing pavement was conducted during the Draft Reference Design stage of the project. The following pavement issues have been identified in these areas:

- Mud Walls Rd Intersection – some minor rutting in both directions

Out of Scope

Due to these findings, the pavement assessment identified approximately 4% of the pavement requiring rejuvenation for the section of highway outside the scope of works at the Mud Walls Rd intersection

Out of Scope

These pavement defects indicate a deterioration of the existing pavement,

Out of Scope

The following options have been analysed in this Request for Project Client Direction:

1. Leave the sections completely out of the scope
2. Apply line marking to the sections currently out of scope
3. Apply line marking and resealing to the sections currently out of scope
4. Apply the pavement rejuvenation treatment through these sections as per the in-scope sections.

**Change Priority:**

High

Medium

Low

**Options Analysis:**

*Provide a brief options analysis, including identifying a preferred option*

**Description:**

1. Leave sections out of scope of works

**Assessment:**

Option 1 involves leaving the three sections of the highway encompassing the aforementioned intersections completely outside the scope of works, in line with the outcomes of the Concept Design Review Workshops.

**Pros**

1. This option saves on the cost of pavement works through these sections of the highway, reducing the overall project cost.

**Cons**

1. Out of Scope

**Preferred Option**

		<p>2. <b>Out of Scope</b></p> <p>3. Terminating works completely in these sections alerts roads users to these intersections 'matching' the adjacent sections of the highway which are being upgraded in this project. For example, the absence of audio-tactile pavement marking on the highway around the Mud Walls Rd intersection is likely to make the section 'feel' different to road users. This also decreases the safety of the section.</p> <p>4. These sections of pavement will need to be rehabilitated in the future.</p>	
	<p><b>2. Apply line marking to sections currently out of scope.</b></p>	<p>Option 2 is the same as Option 1 in leaving these sections outside the scope of works, but incorporates line marking of these sections into the project.</p> <p><b>Pros</b></p> <ol style="list-style-type: none"> <li>1. The cost of line marking for these short sections on the highway is minimal between Option 1 and Option 2.</li> <li>2. Line marking these sections will improve the road users perception of the highway upgrade along the route.</li> <li>3. There are currently no audio-tactile line markings for the Mud Walls Rd intersection. Providing audio-tactile line markings for this intersection will improve the safety of the intersection without providing significant cost to the project.</li> </ol> <p><b>Cons</b></p> <ol style="list-style-type: none"> <li>1. <b>Out of Scope</b></li> </ol>	<p style="text-align: center;"><input checked="" type="checkbox"/></p>
	<p><b>3. Apply line marking to sections currently out of scope.</b></p>	<p>Option 3 is similar to Option 2 in leaving out any pavement rehabilitation works, but incorporates reseal and line marking of these sections into the project.</p> <p><b>Pros</b></p> <ol style="list-style-type: none"> <li>1. The cost of resealing and line marking for these short sections on the highway is expected to be relatively small within the context of the Final Stage projects</li> <li>2. Line marking and resealing these sections will improve the road users perception of the highway upgrade along the route.</li> <li>3. There are currently no audio-tactile line markings for the Mud Walls Rd intersection. Providing audio-tactile line markings for this intersection will improve the safety of the intersection without providing significant cost to the project.</li> </ol>	<p style="text-align: center;"><input type="checkbox"/></p>

		<p><b>Cons</b></p> <ol style="list-style-type: none"> <li>1. Out of Scope</li> <li>2.</li> </ol>		
	<p><b>4. Rehabilitate pavement through these sections.</b></p>	<p>Option 4 involves rejuvenating the existing pavement through base reconstruction or mechanical granular stabilisation. This is in line with the rejuvenation treatments nominated for other sections of the highway which are in scope.</p> <p><b>Pros</b></p> <ol style="list-style-type: none"> <li>1. Existing pavement defects are treated in these sections, improving driver comfort and safety, albeit adding significant costs to the project.</li> </ol> <p><b>Cons</b></p> <ol style="list-style-type: none"> <li>1. This solution adds significant cost to the project and rehabilitating the pavement condition alone only results in a minor improvement to highway safety along these sections when compared to incorporating the median safety barrier and upgrading the turning lanes of the intersections.</li> <li>2. Pavement rehabilitation without provision of a median barrier and other upgrades does not contribute to the key objective for this project of achieving an AUSRAP 3-star rating.</li> </ol>	<input type="checkbox"/>	
<p>Note: The following sections are in relation to the Preferred Option</p>				
<p><b>Budget Considerations:</b></p>	<b>P50</b>	<b>P90</b>	<b>Forecast cost at completion</b>	<b>Contingency</b>
	TBC	TBC	TBC	TBC
<p>Did the project allow for this change within the contingency? If no, does the project have surplus budget to cover cost? Provide evidence from project PCB</p>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
<p><b>Time Considerations:</b> PM to summarise time impacts of this decision.</p>	<p>Option 1, 2, and 3 do not create impacts on the project timeline.</p> <p>Option 4 will require some design time and could impact design delivery timeframes.</p>			

<b>Stakeholder Considerations:</b> <i>PM to summarise how this decision affects stakeholders and how the impacts will be managed.</i>	<b>Stakeholder &amp; Impact:</b> <p>Many of the pavement failures in these sections will be visible to the road users when driving on the highway through these sections. This will appear different to the upgraded sections.</p>	<b>Management:</b> <p>Line marking of these sections done in line with the adjacent sections of the project will enable these sections to be consistent with the other sections of the highway for road users.</p> <p>These sections are also short in the context of the overall project, with only a short travel time for road users between sections of the highway which are being upgraded as part of this project.</p>
	<p>Potential for the highway upgrade projects to be perceived negatively by road users due to the cracking and other pavement failures which will be present in these sections.</p>	<p>As there are no other works through this section, it will hopefully be clear to road users that these failures are not from the new works but are existing issues.</p> <p>This somewhat mitigates the risk of public perception which could be posed by applying a new bitumen seal to the road through this area without performing any further pavement rehabilitation. Applying a new seal would lead road users to believe these sections have been upgraded, which means that the cracking, which is likely to still occur, due to the underlying pavement issues, would be perceived much more negatively by road users.</p>
<b>Risk Considerations:</b> <i>PM to summarise any risks created by this approval and how the risk will be managed.</i>	<b>Risk(s):</b> <p>The identified pavement issues are not being rehabilitated, which poses increased safety risk for drivers through these sections.</p>	<b>Management:</b> <p>Providing line marking to these sections provides minor increase in safety, particularly with the addition of audio-tactile line marking around the Mud Walls Rd intersection.</p> <p>Ideally, these areas of pavement would be treated, but the key focus of this project is to achieve an AUSRAP 3-star rating, not pavement rehabilitation. Pavement rehabilitation in a section where there are no other works occurring is not considered to provide value-for-money improvements to the highway in line with this project objective.</p> <p>Whilst these sections remain outside the scope of works, sight distance checks are still being performed at the intersections to inform DSG of any deficiencies present, and also to ensure that any new barriers that are installed outside the extents of the intersection are considered .</p>
	<b>PM Recommendation:</b> <i>PM to provide a summary of their opinion as to the merit of this request.</i>	<b>DSG TO POPULATE</b>

NOTE: PM to attach any supporting information

*This form must be circulated for approval via the RM Workflow Portal using the 'State Roads – Request for Project Client Direction' Workflow Template.*

Please refer to [D17/439040](#) for instructions on how to initiate a Workflow.

**File is to be stored within Records Manager as follows:**

*In the CLIENT SPONSOR APPROVALS sub-file, with each request filed as a DOCUMENT with attachments as required.*

**NOTE: file is to be named as follows:**

**<PROJECT NAME> – CLIENT APPROVAL <NO.> – <SUBJECT MATTER> – <DATE>**

### Project Client to Complete

<b>Project Client:</b>	Click here to enter text.
<b>Decision:</b>	<input type="checkbox"/> Supported <input type="checkbox"/> Supported with conditions (see Comments section) <input type="checkbox"/> Not Supported <input type="checkbox"/> More information required (see Comments section)
<b>Comments:</b> <i>Project Client to provide brief explanation for decision and outline any conditions such as funding approval required / GM approval required, Briefings required for senior management/Minister / etc.</i>	Click here to enter text.
<b>Date:</b>	Click here to enter a date.
If budget changes required due to Request, enter details below for Budget Support to action:	
<b>Details of Budget Change Request:</b> <i>Ensure Cost Centre and Fund Source details are included.</i>	Click here to enter text.

### Principal's Representative to Complete (contract variation/direction requests only)

<b>Principal's Representative:</b>	Click here to enter text.
<b>Decision:</b>	<input type="checkbox"/> Approved <input type="checkbox"/> Not Approved
<b>Comments:</b> <i>Principal's Representative to provide brief explanation for decision.</i>	Click here to enter text.
<b>Date:</b>	Click here to enter a date.

---

**From:** [Out of Scope]@jacobs.com>  
**Sent:** Monday, 13 September 2021 9:44 AM  
**To:** [Out of Scope]  
**Cc:** [Out of Scope] Midland Highway Final Stage; [Out of Scope]  
**Subject:** RE: [Out of Scope] - Mud Walls Road Junction - Midland Highway Final Stage - Oatlands

Thanks [Out of Scope]

[Out of Scope] also requested a copy of the Highland Lakes Rd Safety Review report, which I asked [Out of Scope] about. [Out of Scope] said the Department would respond directly on that request and Jacobs don't need to be involved. So I gave her the context and explained [Out of Scope] wanted to use it to support his case for an extension of the overtaking lane north of Mud Walls Rd, and that I had emailed you separately about that.

[Out of Scope]

100 Melville Street | Hobart TAS 7000 | Australia



COVID-19: Jacobs' Hobart office remains open but with staff working from home for some of the week. It is 'business as usual' for us and we will be happy to communicate with you via email, telephone or virtual meetings using MS Teams. If you do need to visit the office, we would ask that you arrange this in advance to comply with our Covid-19 risk management plan.

---

**From:** [Out of Scope]@stategrowth.tas.gov.au>  
**Sent:** Monday, 13 September 2021 9:14 AM  
**To:** [Out of Scope]@jacobs.com>  
**Cc:** [Out of Scope]@jacobs.com>; Midland Highway Final Stage <MidlandHighwayFinalStage@jacobs.com>; [Out of Scope]@jacobs.com>  
**Subject:** [EXTERNAL] RE: [Out of Scope] - Mud Walls Road Junction - Midland Highway Final Stage - Oatlands

Thanks for this information [Out of Scope]

[Out of Scope] was in touch with me on Thursday the 9<sup>th</sup> September 2021, the day before your email, and your explanation supports the other aspects I told him:

- the Department upgraded the safety of this junction not too many years ago
- the provision of a median barrier will not make the situation worse safety wise, the avoidance of a northbound rear-end crash as the result of a motorist turning right out of Mud Walls Road could currently result in a head-on crash (I didn't say it but which is likely to have worse consequences than a rear end crash)

I did agree with him that extending the overtaking lane to all but the junction, the same as the Melton Mowbray junction, would be a safer arrangement but was beyond the scope of the project.

[Out of Scope] and I talked about other issues which I will get in touch with you and Jon about.

Regards  
[Out of Scope]  
S

Out of Scope

Programming and Delivery | Department of State Growth  
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001  
Phone: Out of Scope  
[www.stategrowth.tas.gov.au](http://www.stategrowth.tas.gov.au)

My current work pattern is as follows:

Out of Scope

DEPARTMENT OF STATE GROWTH COURAGE TO MAKE A DIFFERENCE THROUGH:



---

From: Out of Scope <[redacted]@jacobs.com>  
Sent: Friday, 10 September 2021 11:39 AM  
To: Out of Scope <[redacted]@stategrowth.tas.gov.au> <Out of Scope [redacted]@jacobs.com>  
Cc: Out of Scope <[redacted]@jacobs.com>  
Subject: Out of Scope

Hi all,

Just giving you a heads up about a looming Ministerial:

I had a call from Out of Scope who is talking to MP John Tucker about seeking a decision to upgrade the Mud Walls Rd Intersection as part of this project, and specifically extending the overtaking lane to start closer to the intersection (“because its only another 200m”). John Tucker has committed to taking the issue to the Minister. S Out of also indicated that he would go to the Southern Midlands Council to get them behind it as well.

I indicated to S Out of that the Department’s likely response is that the focus of this project is installation of median safety barrier, not upgrading of major intersections, and that it might be something they can consider for a potential future project. I also explained that we have a very similar issue with community lobbying for an upgrade of the Chiswick Rd Intersection at the northern exit from Ross, and that intersection is not being upgraded as part of this project either.

Out of Scope

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**From:** Out of Scope [redacted]@jacobs.com>  
**Sent:** Tuesday, 14 September 2021 9:42 AM  
**To:** Out of Scope [redacted]  
**Subject:** Out of Scope [redacted] letter  
**Attachments:** Letter to Out of Scope [redacted] re MHFS Intersections and Accesses 14 Sep 2021.pdf

Out of Scope [redacted] & Jon,

A copy of the letter emailed to Out of Scope [redacted] this morning is attached, and also saved to Consultation Manager.

Out of Scope [redacted]

100 Melville Street | Hobart TAS 7000 | Australia



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14 September 2021

Out of Scope

Project Name: Midland Highway Safety Upgrade Final Stage  
Project Number: IA250204

**Subject: Midland Highway Safety Upgrade – Intersections and Accesses**

Dear **Out of Scope**

Further to your recent phone calls to myself and **Out of Scope** at the Department of State Growth about the intersections at Mud Walls Road, Stonor Road and Jericho Road North, and associated accesses to your property, the project team would like to provide you with a full response to each issue in turn.

### Mud Walls Road Intersection

1. Overtaking lane heading north out of Mud Walls needs to start within 30mts not 280mts (replicate Melton Mowbray intersection)
  - The main objective of the project is to install flexible median safety barrier to reduce head-on crashes and associated serious injuries and fatalities.
  - The project is minimising the amount of work at Mud Walls Road intersections, which was previously upgrades as part of the Midland Highway 10 Year Action Plan.
  - The approach being taken at Mud Walls Road is to spread out conflict points (eg. property accesses, turn facilities, overtaking opportunities) rather than concentrating them at the intersection.
  - There is a very wide gap in the median safety barrier at Mud Walls Road. Sight distance checks have confirmed that this intersection meets standards.

2. Could the limited access gateway at 53880 please be relocated to 53800 (opposite Mud Walls intersection) due to the current design limiting access due to the cable.
  - The Department's strategy is to maintain most accesses at left-in, left-out.
  - It is not the Department's preference to move accesses to major intersections. It creates an additional conflict point, making the intersection less safe.
  - Southbound light vehicles entering this access can turn in via Mud Walls Road, which is 80m away.

Out of Scope



Out of Scope



I trust that this letter clearly sets out the project team's approach to these intersections and adjacent property accesses.

As always, if you have any questions please do not hesitate to contact me.

Yours sincerely

Out of Scope



Copies to: **Out of Scope**, Department of State Growth