

# WEE WAA FLOOD MITIGATION STRATEGY REF WORKS CONSTRUCTION DOCUMENTATION



Sheet No.	Drawing Title	Revision	Date
LP01	COVER SHEET	D	13/5/2022
LP02	OVERALL SITE PLAN	D	13/5/2022
LP03	SITE PLAN - PART A	D	13/5/2022
LP04	PART A - LANDSCAPE PLAN 01 & 02	D	13/5/2022
LP05	PART A - LANDSCAPE PLAN 03 & 04	D	13/5/2022
LP06	PART A - LANDSCAPE PLAN 05 & 06	D	13/5/2022
LP07	PART A - LANDSCAPE PLAN 07 & 08	D	13/5/2022
LP08	SITE PLAN - PART B	D	13/5/2022
LP09	PART B - LANDSCAPE PLAN 01 & 02	D	13/5/2022
LP10	PART B - LANDSCAPE PLAN 03 & 04	D	13/5/2022
LP11	PART B - LANDSCAPE PLAN 05 & 06	D	13/5/2022
LP12	PART B - LANDSCAPE PLAN 07 & 08	D	13/5/2022
LP13	PART B - LANDSCAPE PLAN 09	D	13/5/2022
LP14	DETAILS	D	13/5/2022
LP15	SPECIFICATION	D	13/5/2022

LOCALITY PLAN Source: Esri  
Scale 1:5000 @ A1



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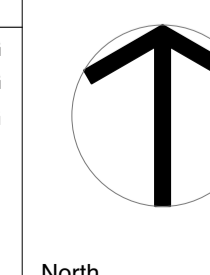
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6. DRAWINGS TO BE PRINTED IN COLOUR ONLY

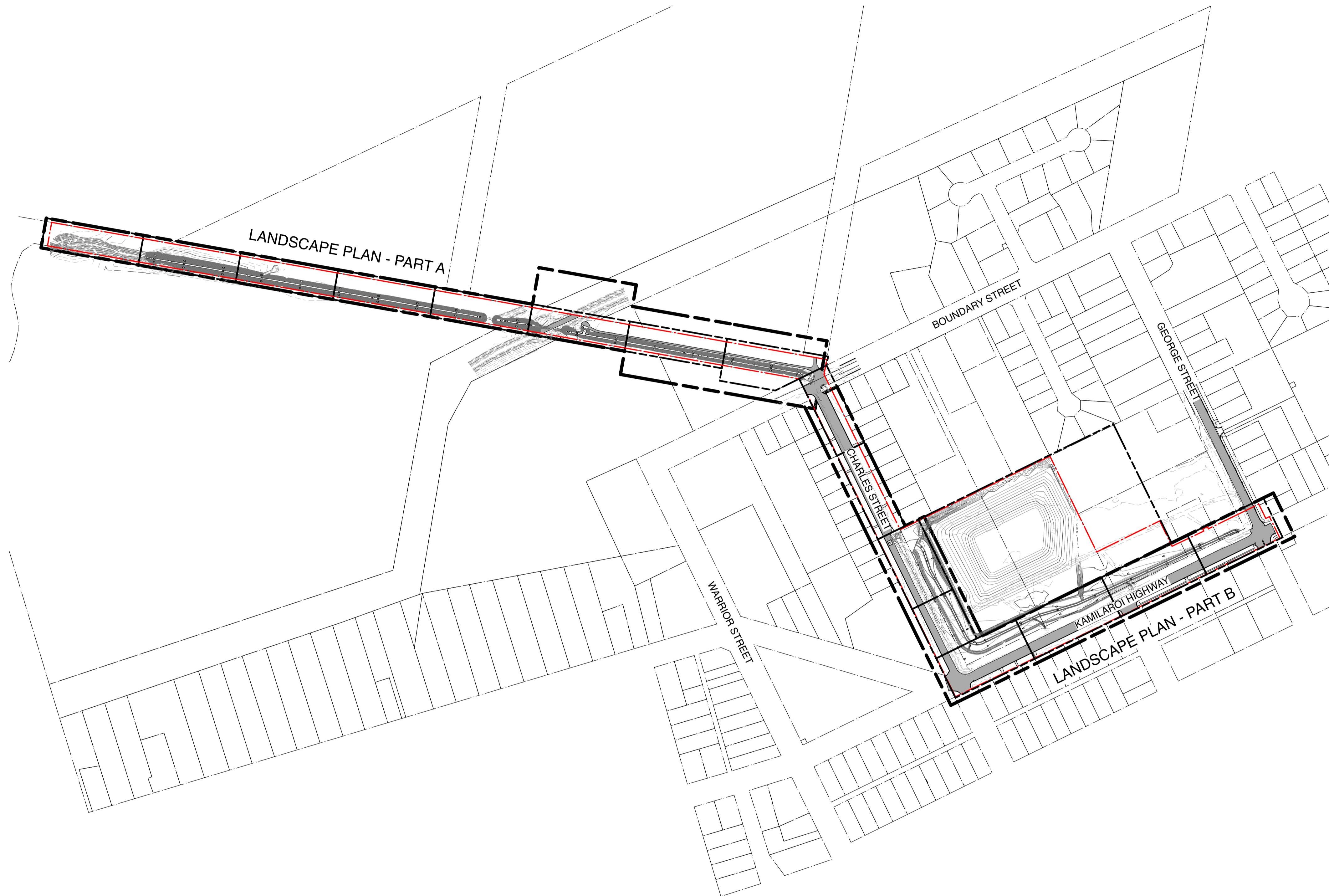
Architect:  
**SHAC**  
  
Engineer:  
**Warren Smith Consulting Engineers**

No.	Date	REVISION	By
A	31/3/2022	Draft documentation for review	AG
B	1/4/2022	Draft documentation for review	AG
C	11/5/2022	For submission	AG
D	13/5/2022	For Submission	TB






Status  
**FOR SUBMISSION**  
**Wee Waa Flood Mitigation**  
  
Off Kamilaroi Highway, Wee Waa NSW  
  
Built

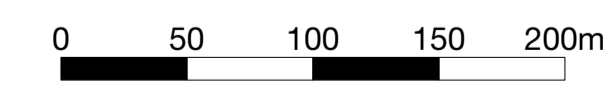
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Drawn By: CN / AG Checked By: TB	Drawing No. <b>LP01</b> Rev <b>D</b>



**LEGEND**

	Site boundary
	Lot boundary
	Sheet reference

SITE PLAN  
Scale 1:3000 @ A1



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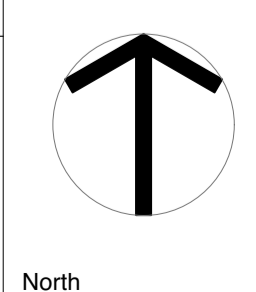
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**SHAC**

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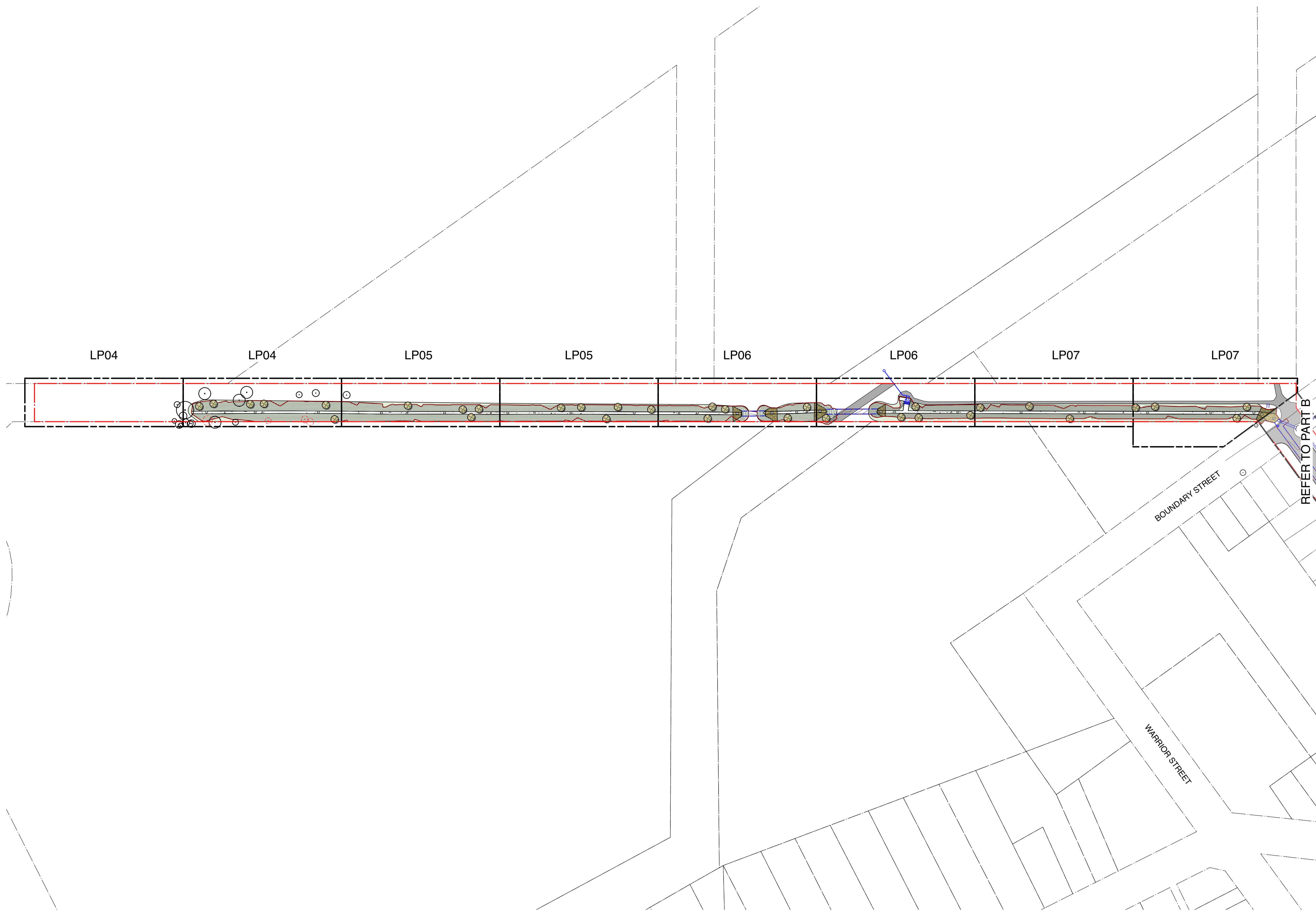
Status  
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Built

**OVERALL SITE PLAN**

SCALE: 1:750 ORIGINAL DRAWING AT A1.	Project No. <b>2114</b>
Drawn By: CN / AG Checked By: TB	Drawing No. <b>LP02</b> Rev <b>D</b>

**LEGEND**

-  Site boundary
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SITE PLAN  
Scale 1:1500 @ A1



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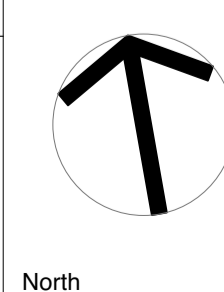
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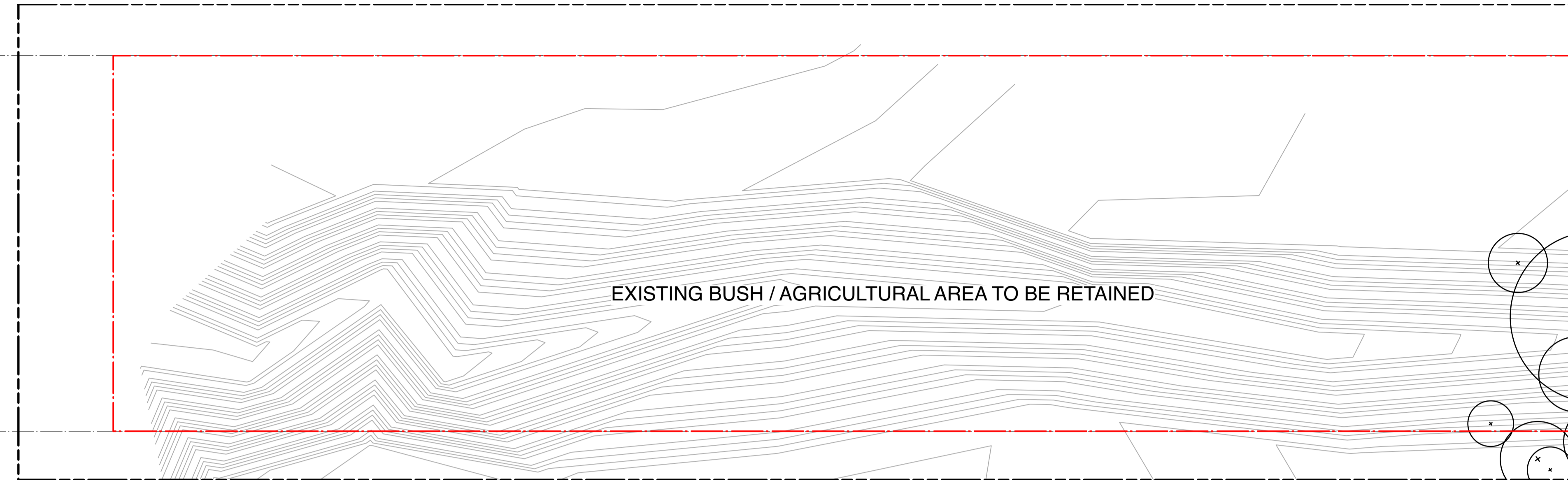
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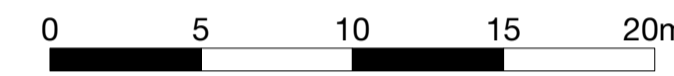
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**Wee Waa Flood Mitigation**  
Off Kamilaroi Highway, Wee Waa NSW  
Built

<b>SITE PLAN - PART A</b>	
SCALE: 1:1500 ORIGINAL DRAWING AT A1.	Project No. <b>2114</b>
Drawn By: CN / AG Checked By: TB	Drawing No. <b>LP03</b> Rev <b>D</b>

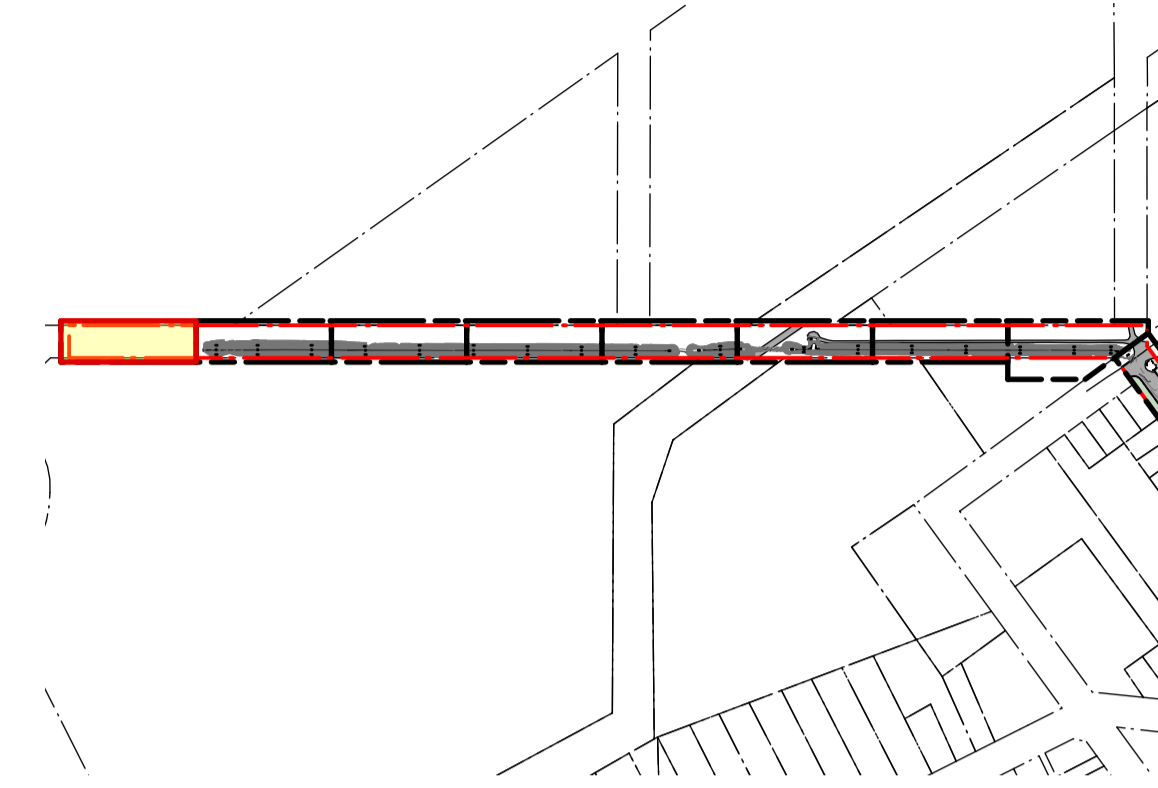
END OF WORKS



PART A - LANDSCAPE PLAN 01  
Scale 1:250 @ A1

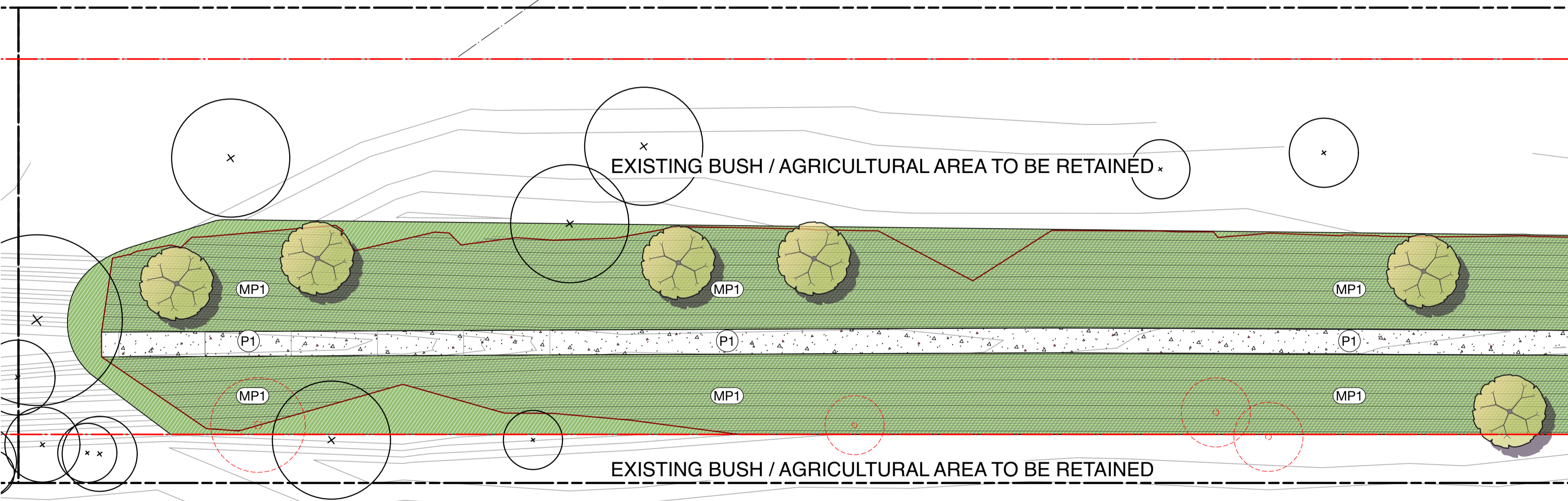


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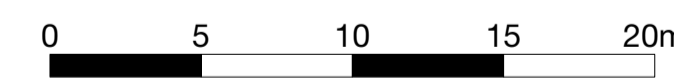


REFERENCE PLAN  
Scale 1:7000 @ A1

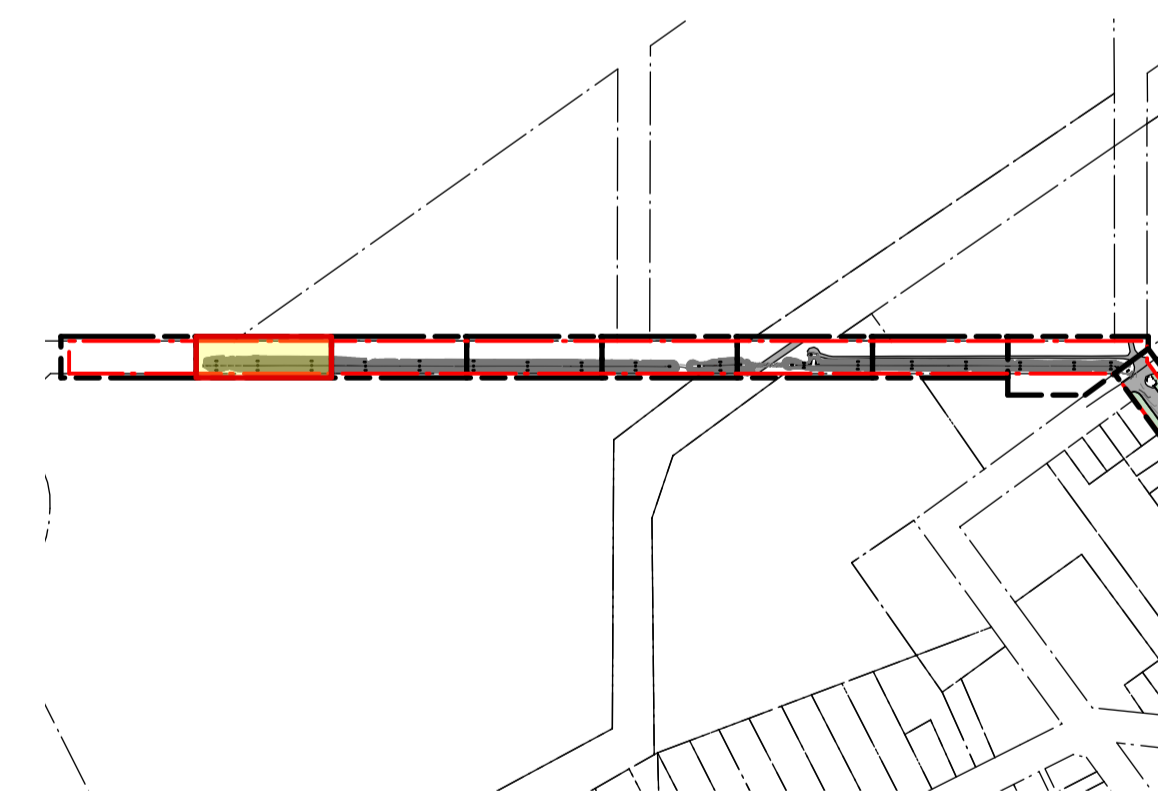
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PART A - LANDSCAPE PLAN 02  
Scale 1:250 @ A1



REFER TO PART A - LANDSCAPE PLAN 03 (LP05)



REFERENCE PLAN  
Scale 1:7000 @ A1

**LEGEND**

- Extent of work
- Site boundary
- Lot boundaries
- Proposed minor contour
- Proposed major contour
- Proposed extent of excavation

**HARDSCAPE**

- Existing road
- Existing concrete paving
- P1 - Concrete paving

**SERVICES**

- Overhead power lines
- Telecommunications line
- Water
- Existing stormwater
- Proposed stormwater pipe

**MASS PLANTING**

- MP1 - Mass planting 1  
Hydromulched grasses within swale
- MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
- MP3 - Mass planting 3  
Hydromulched perennial grasses

**TREES**

- Existing trees to be removed
- Existing trees to be retained and protected
- Eucalyptus microtheca*  
Coolabah

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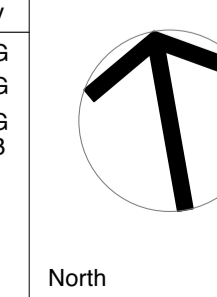


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Architect:  
**SHAC**

Engineer:  
**Warren Smith Consulting Engineers**

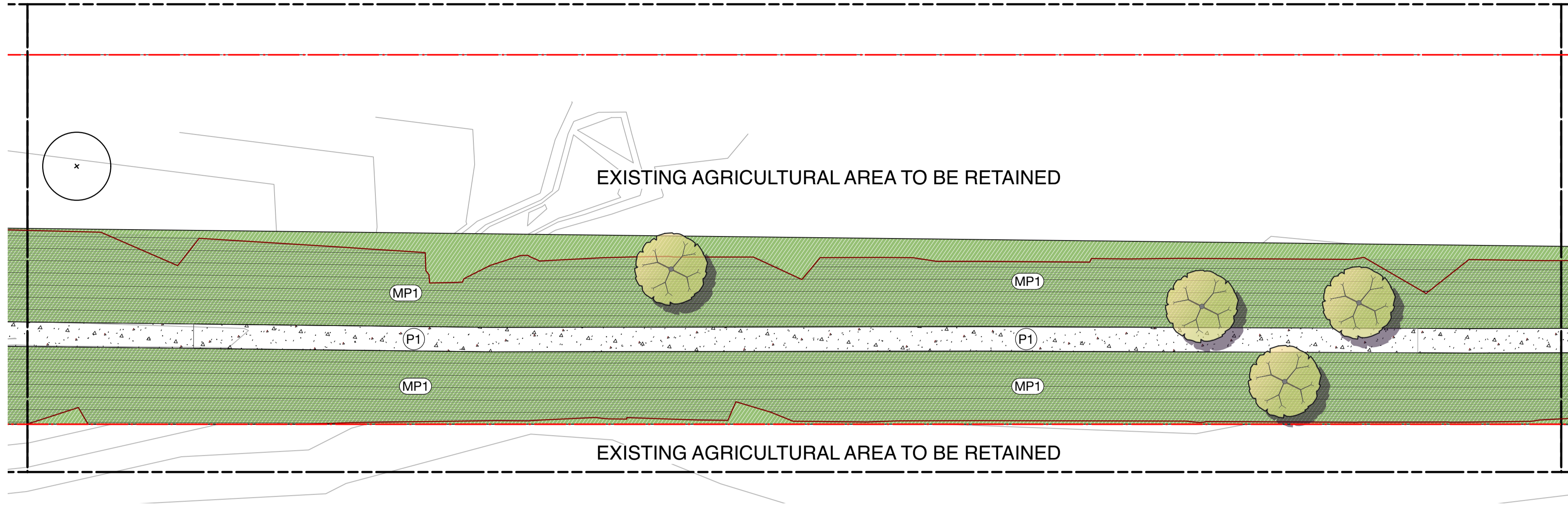
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Status  
**FOR SUBMISSION**  
Wee Waa Flood Mitigation  
Off Kamilaroi Highway, Wee Waa NSW  
Built

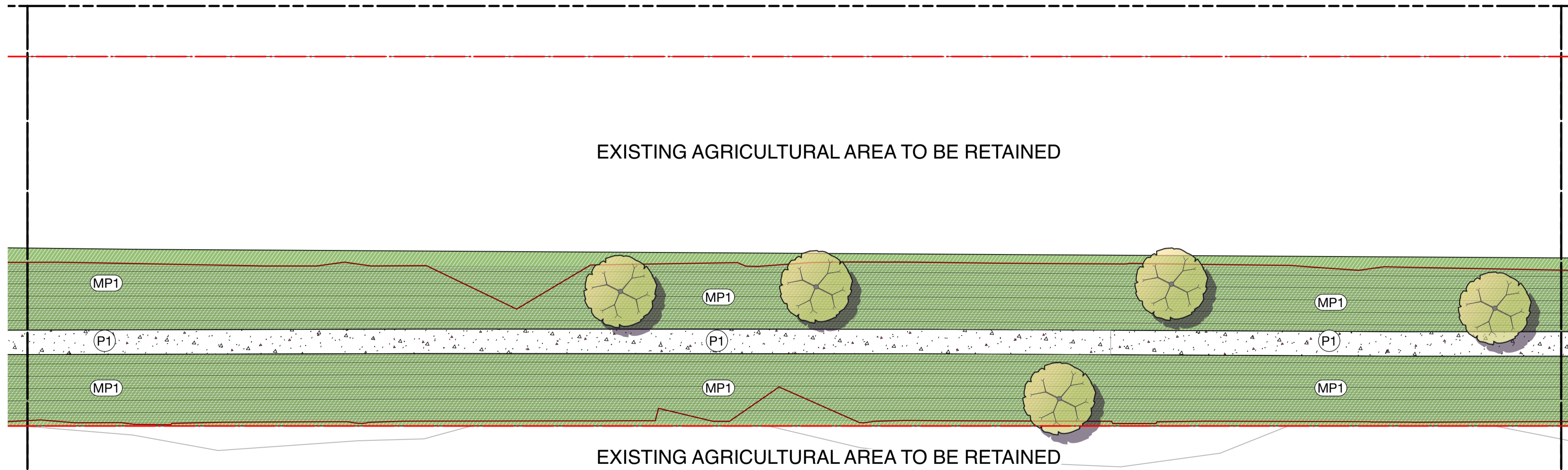
<b>PART A - LANDSCAPE PLAN 01 &amp; 02</b>	
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Drawn By: CN / AG Checked By: TB	Drawing No. <b>LP04</b> Rev <b>D</b>

REFER TO PART A - LANDSCAPE PLAN 02 (LP04)



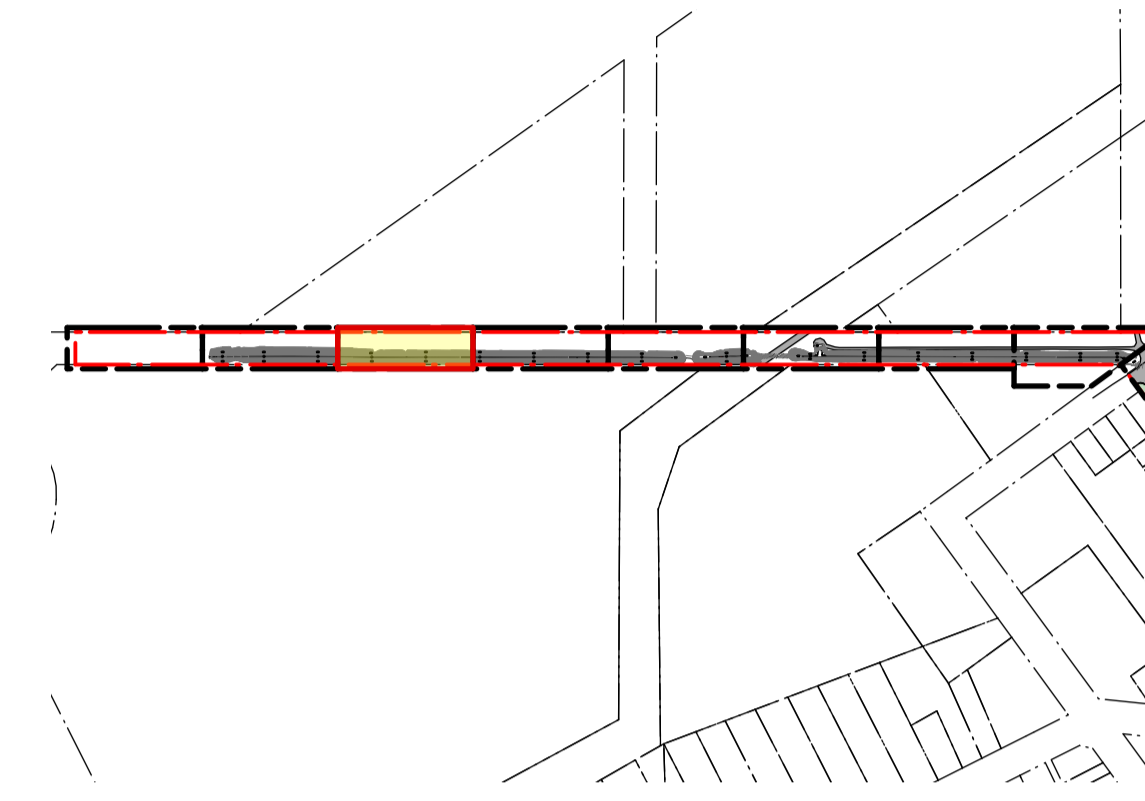
PART A - LANDSCAPE PLAN 03  
Scale 1:250 @ A1

REFER TO PART A - LANDSCAPE PLAN 03 (LP05)



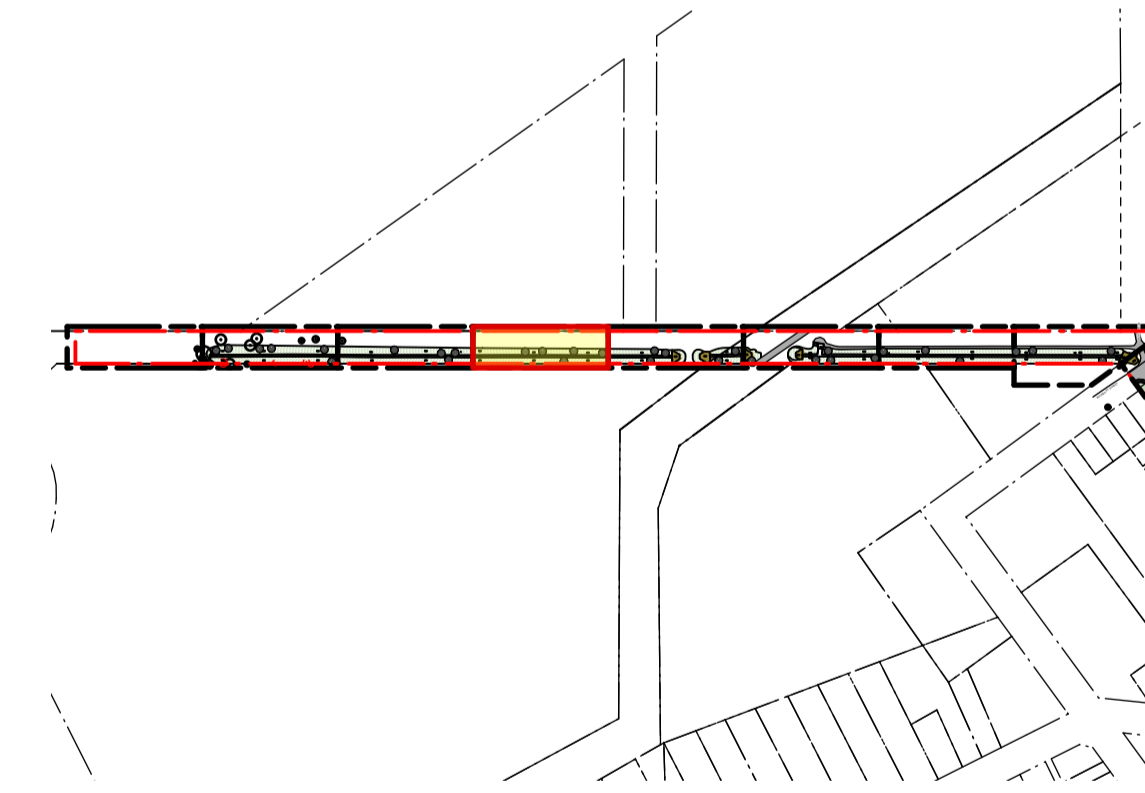
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Scale 1:250 @ A1

REFER TO PART A - LANDSCAPE PLAN 04 (LP05)



REFERENCE PLAN  
Scale 1:7000 @ A1

REFER TO PART A - LANDSCAPE PLAN 05 (LP06)



REFERENCE PLAN  
Scale 1:7000 @ A1

**LEGEND**

- Extent of work
- Site boundary
- Lot boundaries
- Proposed minor contour
- Proposed major contour
- Proposed extent of excavation

**HARDSCAPE**

- Existing road
- Existing concrete paving
- P1 - Concrete paving

**SERVICES**

- Overhead power lines
- Telecommunications line
- Water
- Existing stormwater
- Proposed stormwater pipe

**MASS PLANTING**

- MP1 - Mass planting 1  
Hydromulched grasses within swale
- MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
- MP3 - Mass planting 3  
Hydromulched perennial grasses

**TREES**

- Existing trees to be removed
- Existing trees to be retained and protected
- Eucalyptus microtheca*  
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**PART A - LANDSCAPE PLAN 03 & 04**

ORIGINAL DRAWING AT A1.	Project No. <b>2114</b>
SCALE: 1:750	Drawing No. <b>LP05</b>
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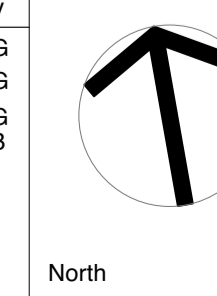


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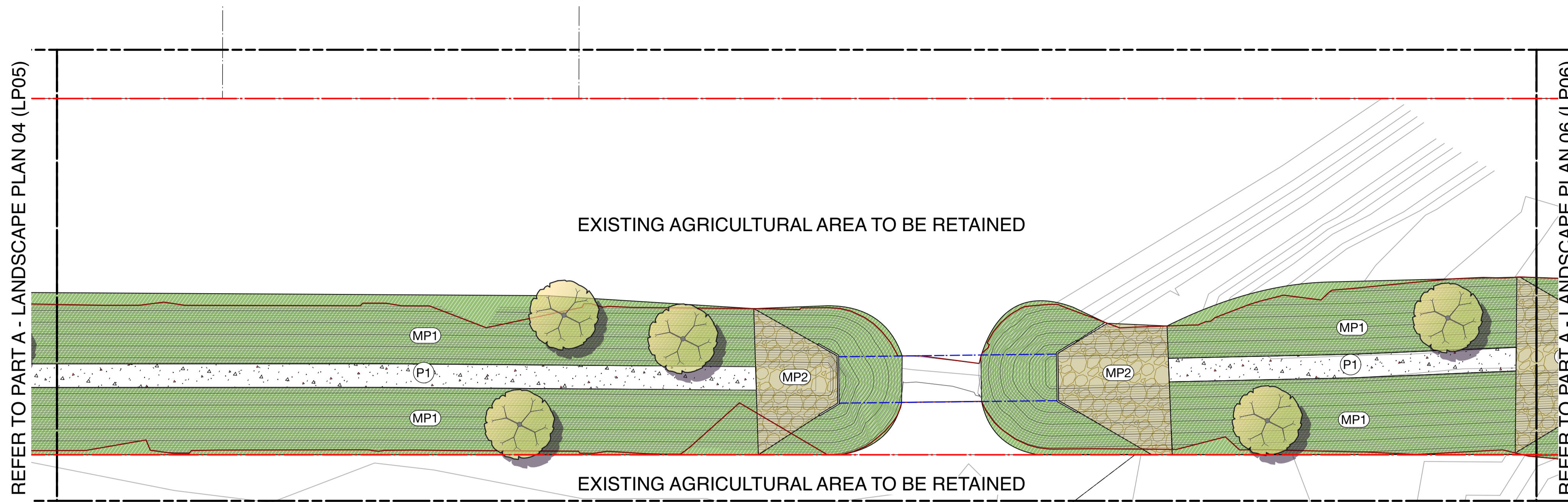
Architect:  
**SHAC**

Engineer:  
**Warren Smith Consulting Engineers**

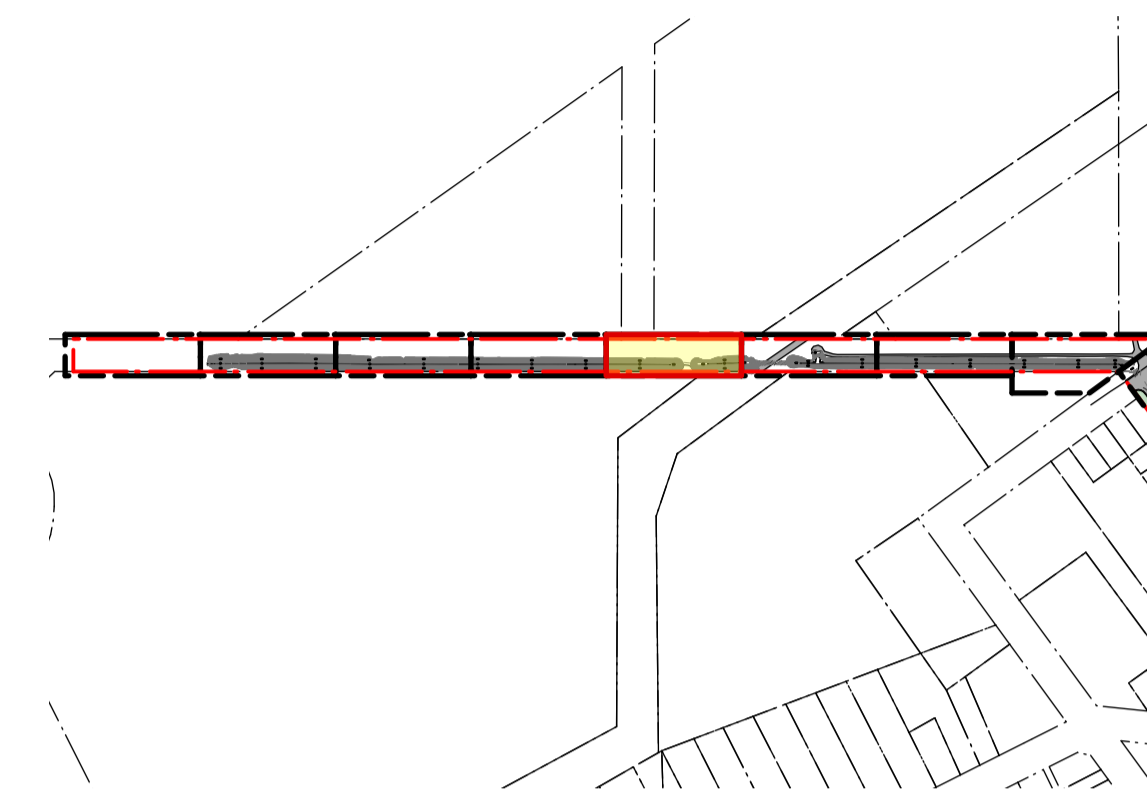
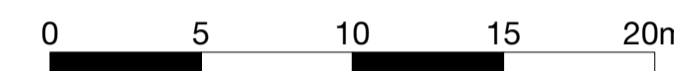
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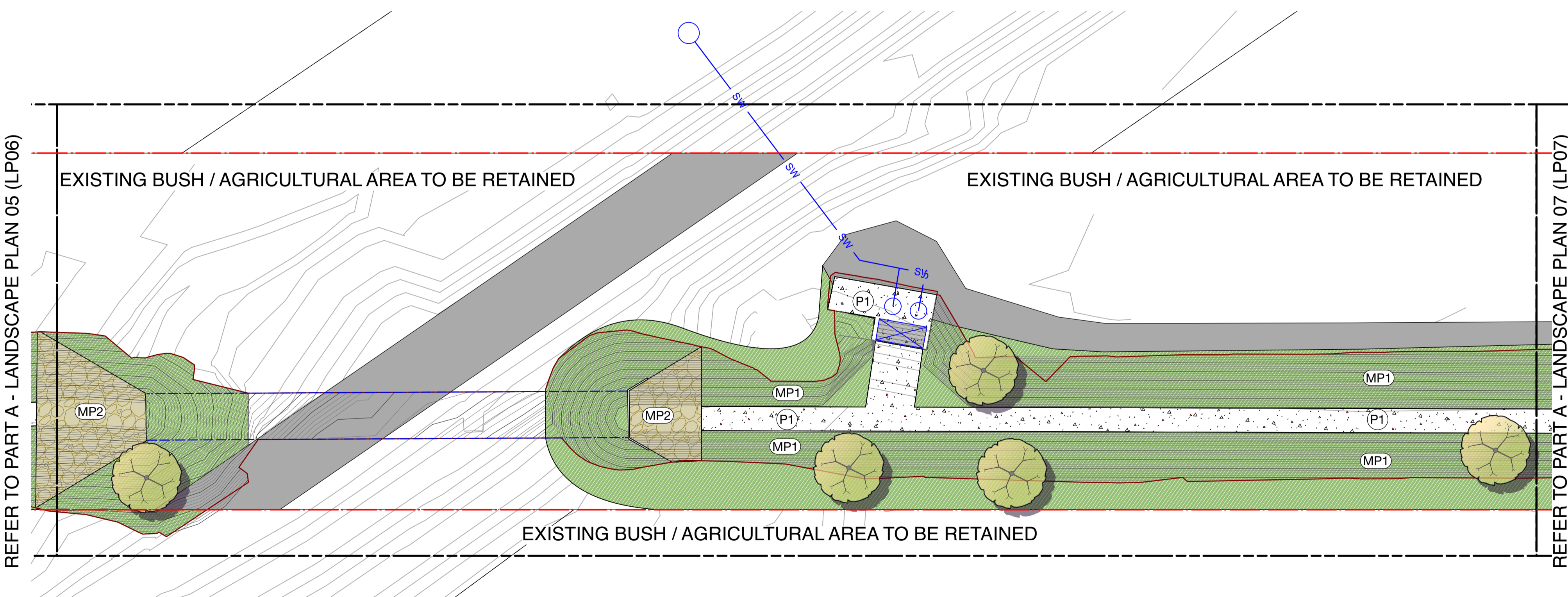
Status  
**FOR SUBMISSION**  
Wee Waa Flood Mitigation  
Off Kamilaroi Highway, Wee Waa NSW  
Built



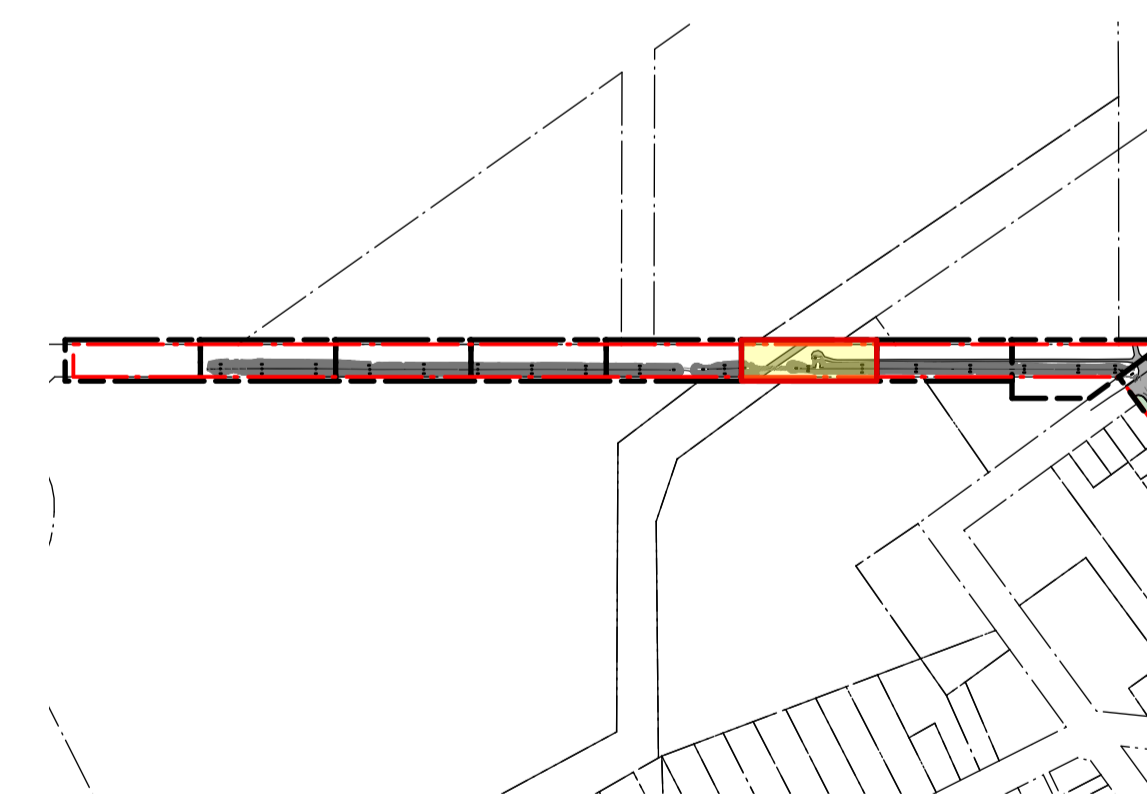
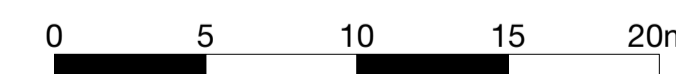
PART A - LANDSCAPE PLAN 05  
Scale 1:250 @ A1



REFERENCE PLAN  
Scale 1:7000 @ A1



PART A - LANDSCAPE PLAN 06  
Scale 1:250 @ A1



REFERENCE PLAN  
Scale 1:7000 @ A1

**LEGEND**

- Extent of work
- - - Site boundary
- - - Lot boundaries
- - - Proposed minor contour
- - - Proposed major contour
- - - Proposed extent of excavation

**HARDSCAPE**

- Existing road
- Existing concrete paving
- (P1) P1 - Concrete paving

**SERVICES**

- OHP Overhead power lines
- T Telecommunications line
- W Water
- Existing stormwater
- Proposed stormwater pipe

**MASS PLANTING**

- (MP1) MP1 - Mass planting 1  
Hydromulched grasses within swale
- (MP2) MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
- (MP3) MP3 - Mass planting 3  
Hydromulched perennial grasses

**TREES**

- Existing trees to be removed
- Existing trees to be retained and protected
- Eucalyptus microtheca*  
Coolabah

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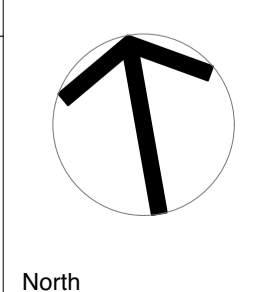
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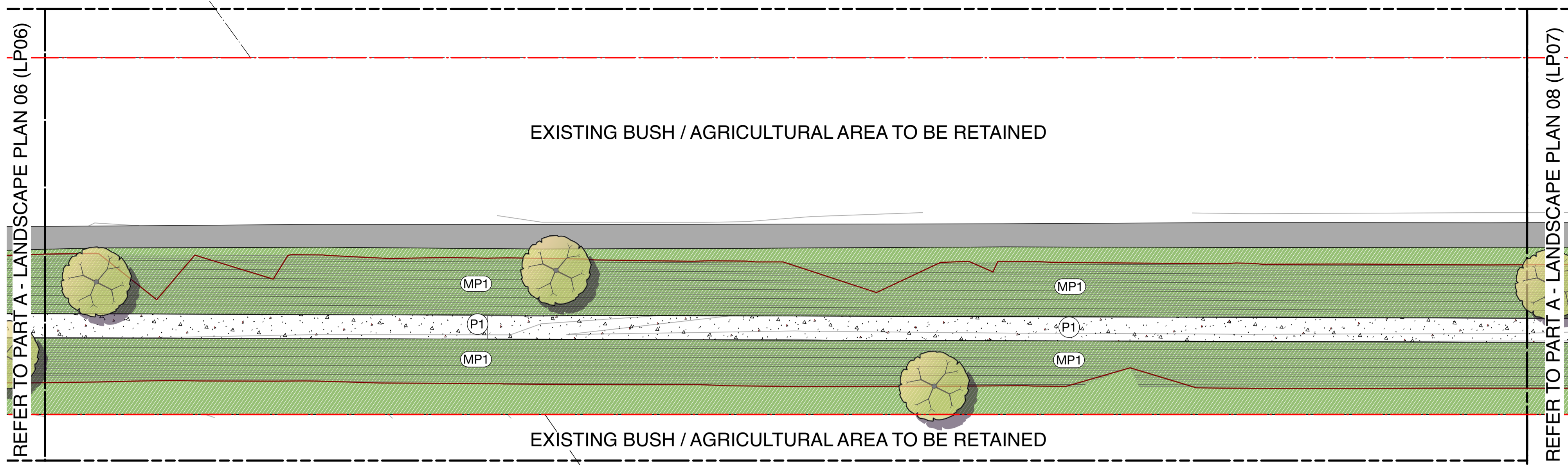
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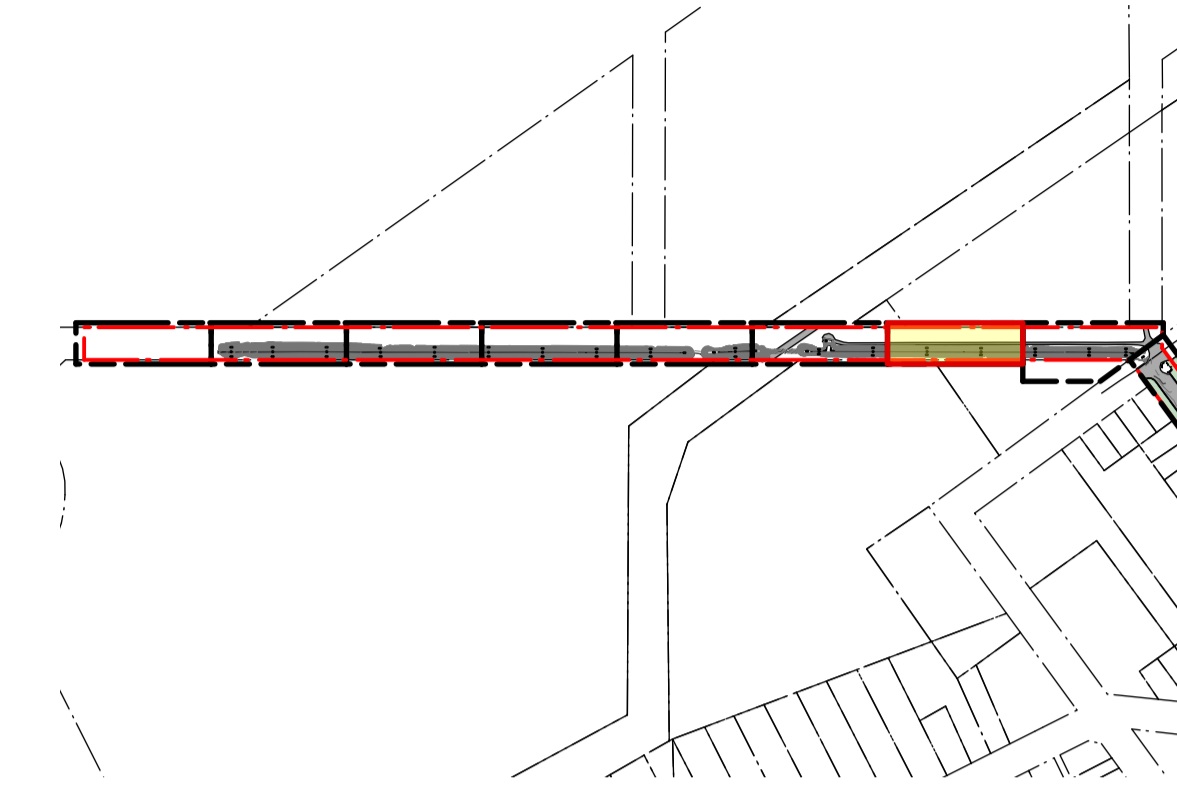
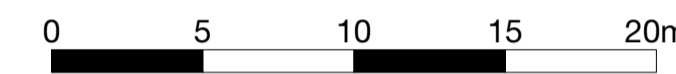


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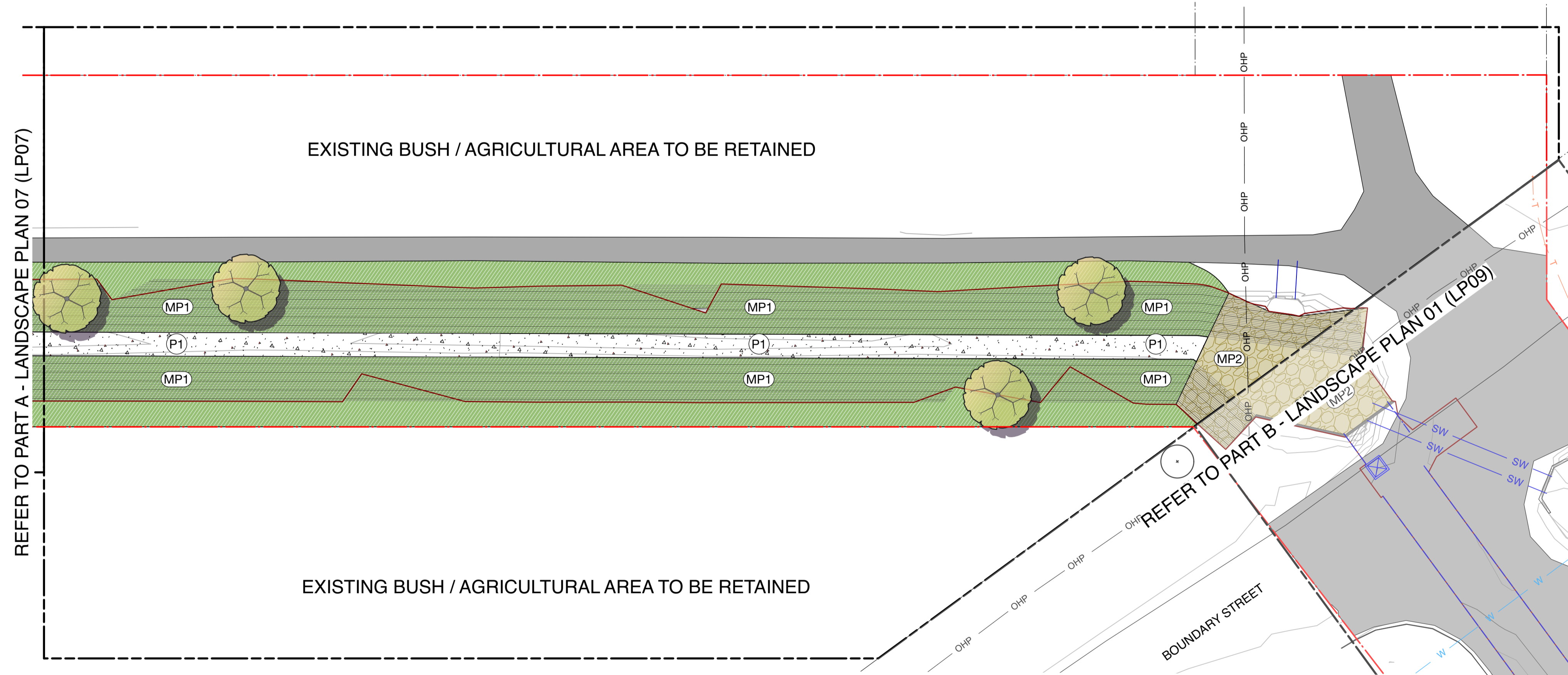
<b>PART A - LANDSCAPE PLAN 05 &amp; 06</b>	
SCALE: 1:750 ORIGINAL DRAWING AT A1.	Project No. <b>2114</b>
Drawn By: CN / AG Checked By: TB	Drawing No. <b>LP06</b> Rev <b>D</b>



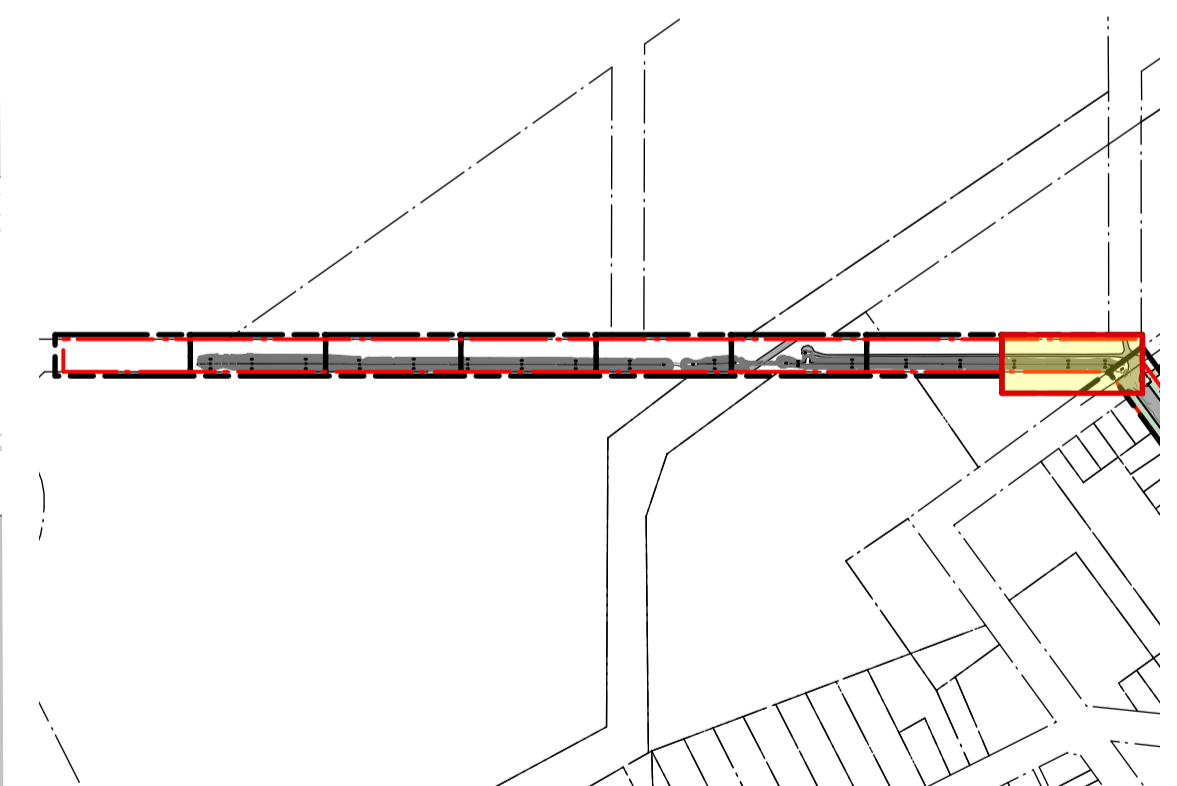
PART A - LANDSCAPE PLAN 07  
Scale 1:250 @ A1



REFERENCE PLAN  
Scale 1:7000 @ A1



PART A - LANDSCAPE PLAN 08  
Scale 1:250 @ A1



REFERENCE PLAN  
Scale 1:7000 @ A1

- LEGEND**
- Extent of work
  - - - Site boundary
  - - - Lot boundaries
  - - - Proposed minor contour
  - - - Proposed major contour
  - - - Proposed extent of excavation

- HARDSCAPE**
- Existing road
  - Existing concrete paving
  - (P1) P1 - Concrete paving

- SERVICES**
- OHP Overhead power lines
  - T Telecommunications line
  - W Water
  - Existing stormwater
  - Proposed stormwater pipe

- MASS PLANTING**
- (MP1) MP1 - Mass planting 1  
Hydromulched grasses within swale
  - (MP2) MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
  - (MP3) MP3 - Mass planting 3  
Hydromulched perennial grasses

- TREES**
- (Red dashed circle) Existing trees to be removed
  - (Black circle) Existing trees to be retained and protected
  - (Tree icon) *Eucalyptus microtheca*  
Coolabah

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**PART A - LANDSCAPE PLAN 07 & 08**

SCALE: 1:750	Project No. 2114
ORIGINAL DRAWING AT A1	Drawing No. LP07
Drawn By: CN / AG	Rev D
Checked By: TB	

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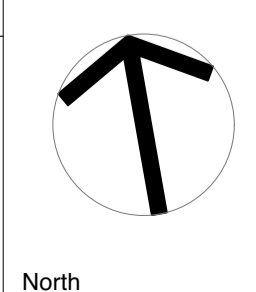
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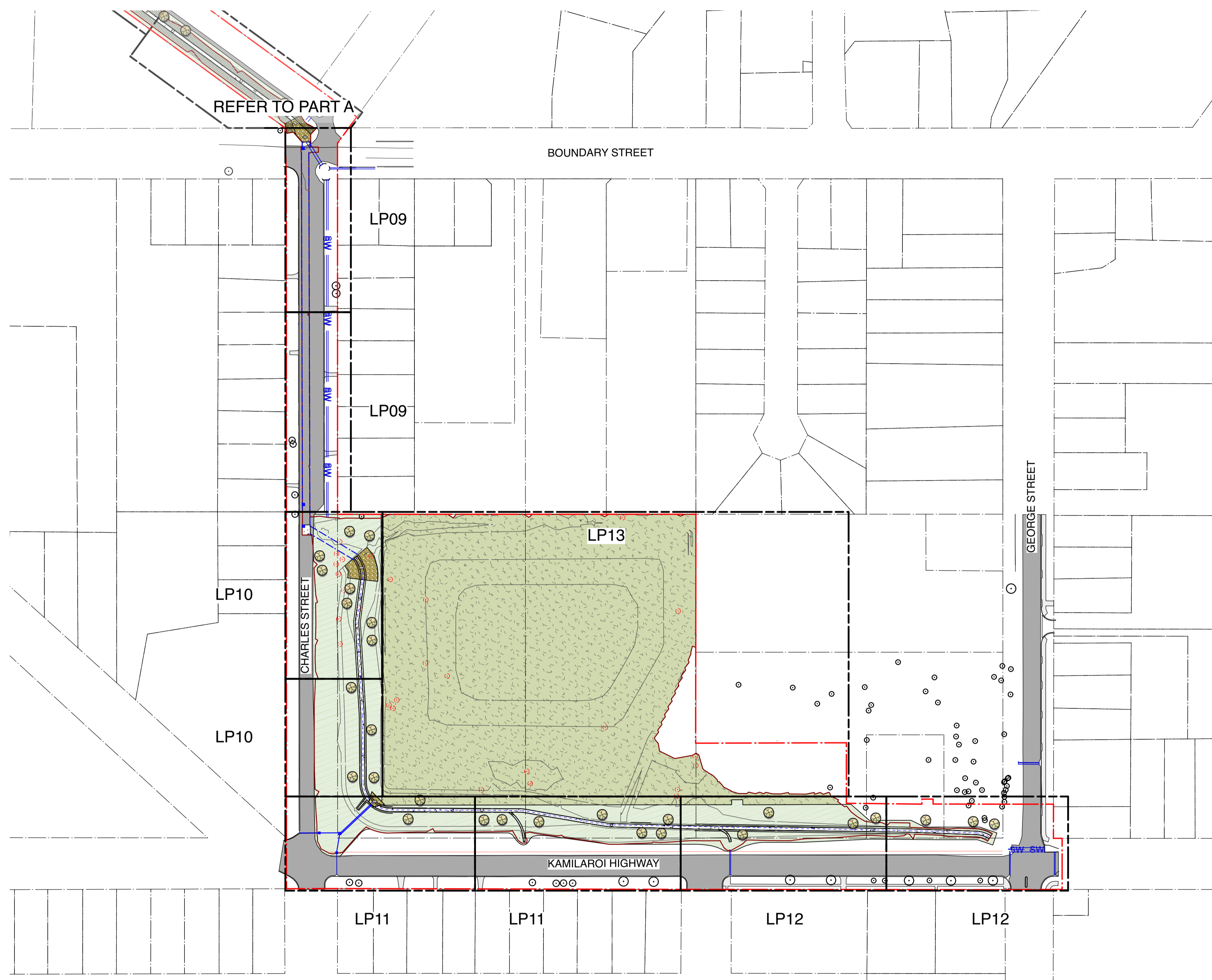
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Status  
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Built

**LEGEND**

- Site boundary
- Lot boundary
- Sheet reference



SITE PLAN - PART B  
Scale 1:1500 @ A1



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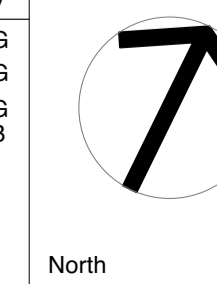


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 5. CONFIRM LOCATION OF ALL SERVICES ON SITE PRIOR TO EXCAVATION.  
 6. DRAWINGS TO BE PRINTED IN COLOUR ONLY

Architect:  
**SHAC**

Engineer:  
**Warren Smith Consulting Engineers**

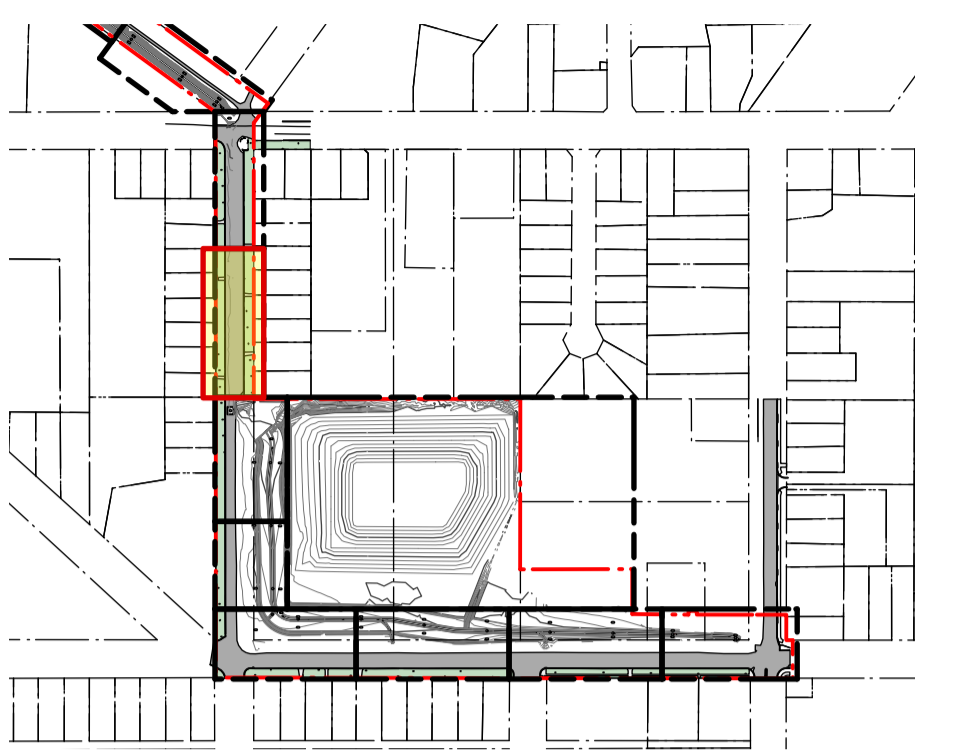
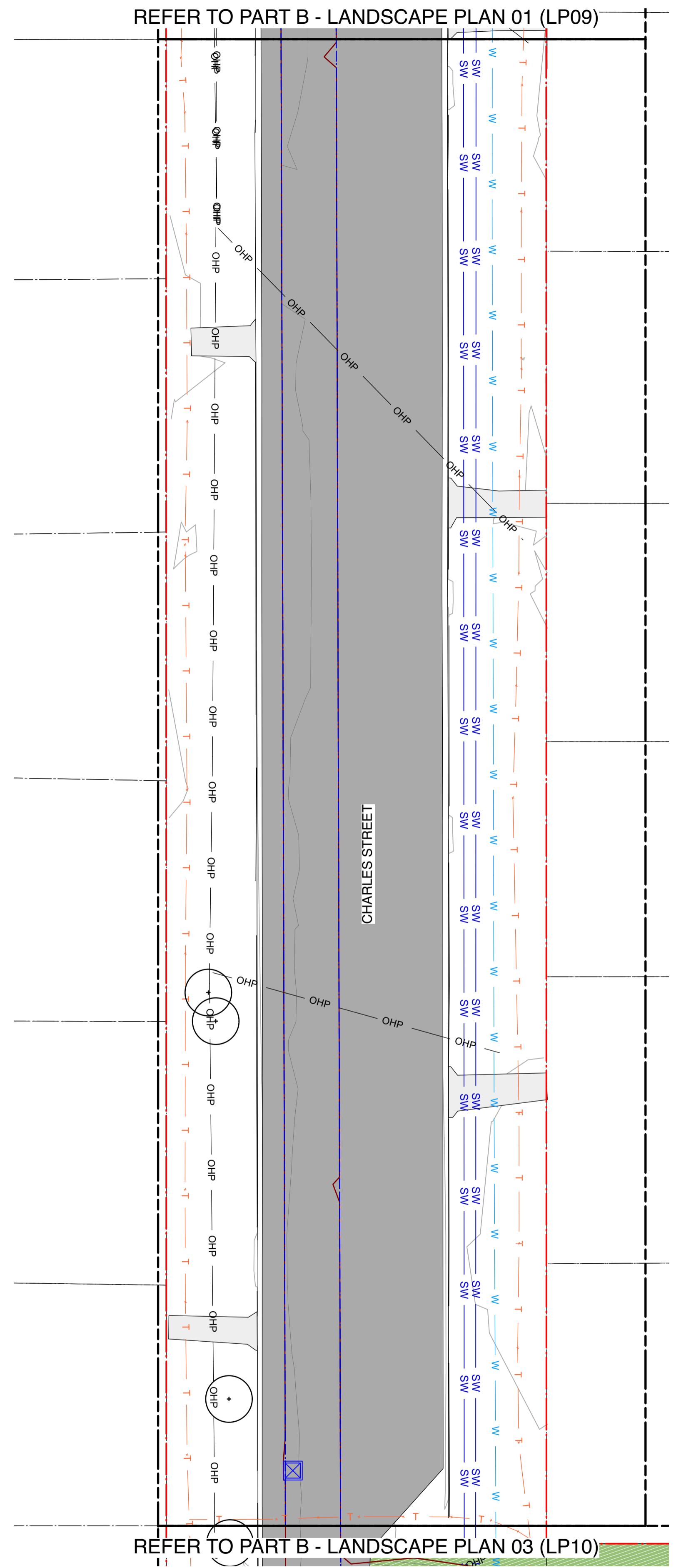
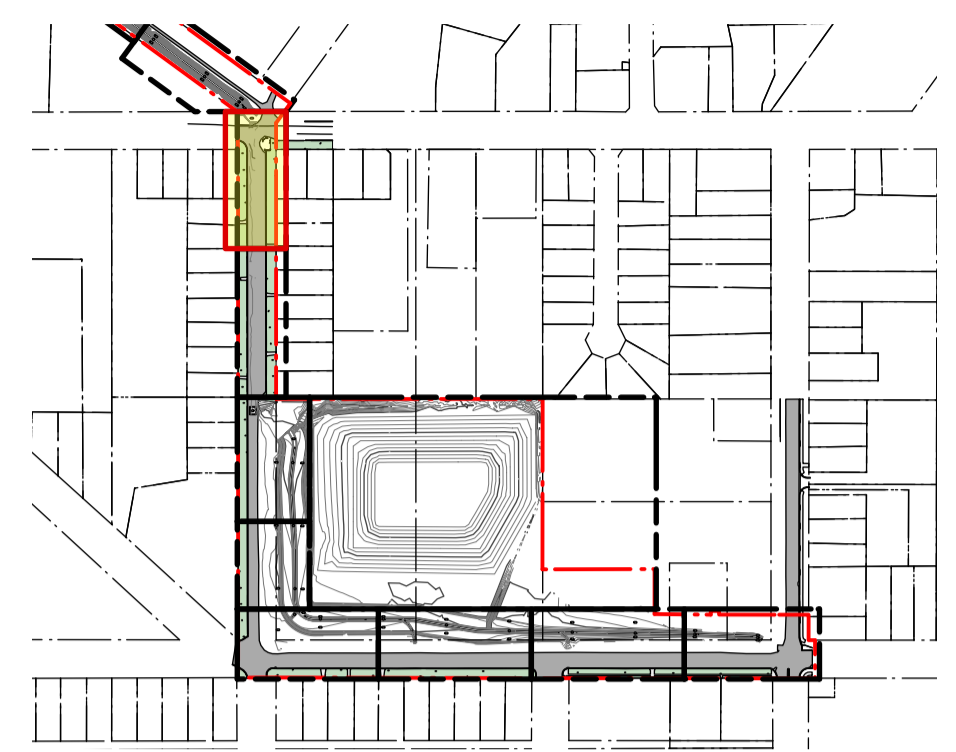
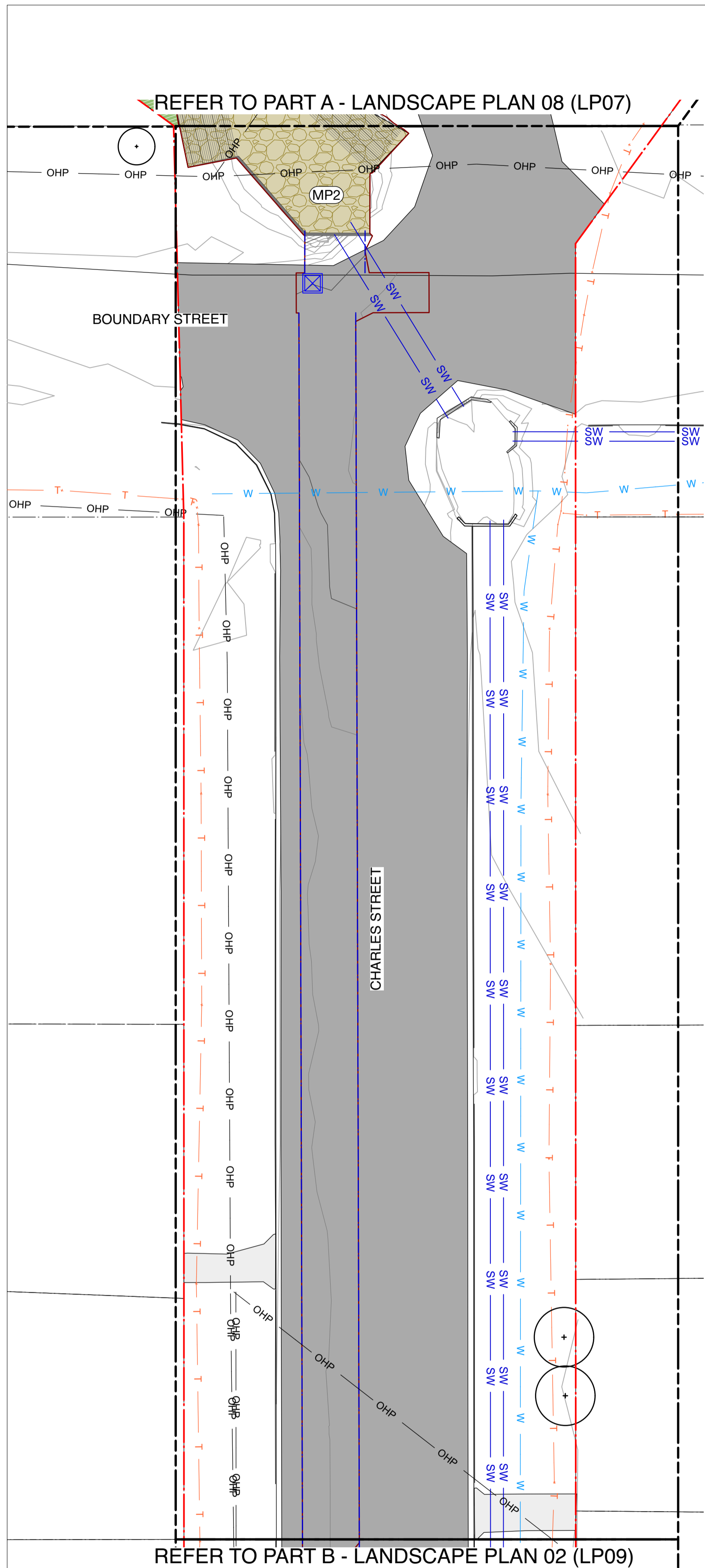
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Status  
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**Wee Waa Flood Mitigation**  
 Off Kamilaroi Highway, Wee Waa NSW  
 Built

<b>SITE PLAN - PART B</b>	
SCALE: 1:1500 ORIGINAL DRAWING AT A1.	Project No. <b>2114</b>
Drawn By: CN / AG Checked By: TB	Drawing No. <b>LP08</b> Rev <b>D</b>





**LEGEND**

- Extent of work
- Site boundary
- Lot boundaries
- Proposed minor contour
- Proposed major contour
- Proposed extent of excavation

**HARDSCAPE**

- Existing road
- Existing concrete paving
- P1 - Concrete paving

**SERVICES**

- OHP - Overhead power lines
- T - Telecommunications line
- W - Water
- Existing stormwater
- Proposed stormwater pipe

**MASS PLANTING**

- MP1 - Mass planting 1  
Hydromulched grasses within swale
- MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
- MP3 - Mass planting 3  
Hydromulched perennial grasses

**TREES**

- Existing trees to be removed
- Existing trees to be retained and protected
- Eucalyptus microtheca*  
Coolabah

**NOT FOR CONSTRUCTION**

**PART B - LANDSCAPE PLAN 01 & 02**

SCALE: 1:250

ORIGINAL DRAWING AT A1.

Drawn By: CN / AG  
Checked By: TB

Project No. **2114**

Drawing No. **LP09** Rev **D**

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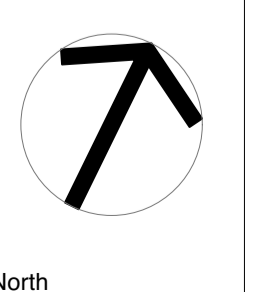
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Architect:  
**SHAC**

Engineer:  
**Warren Smith Consulting Engineers**

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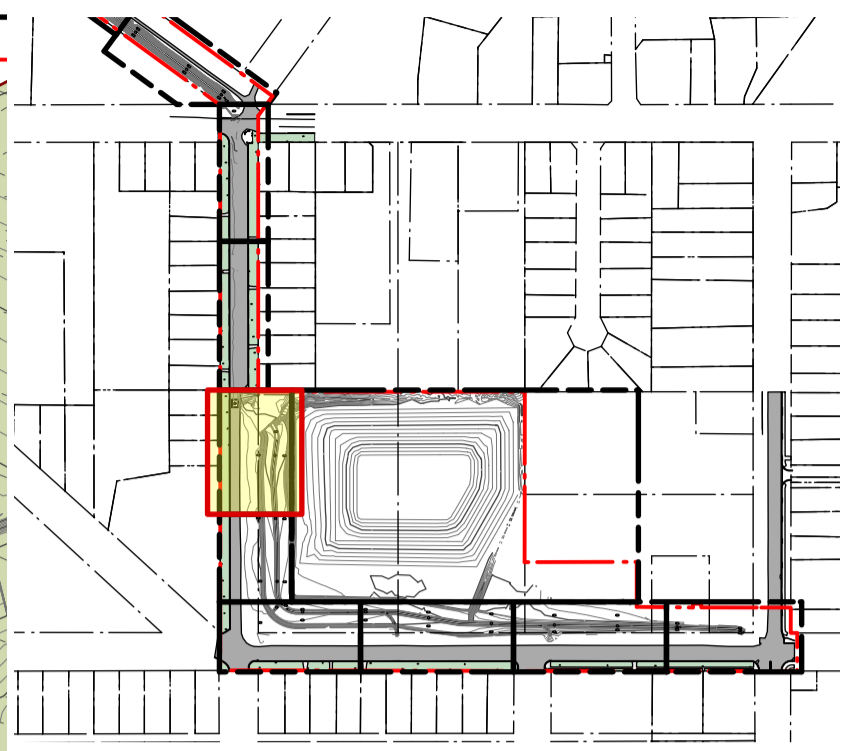
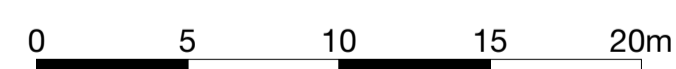
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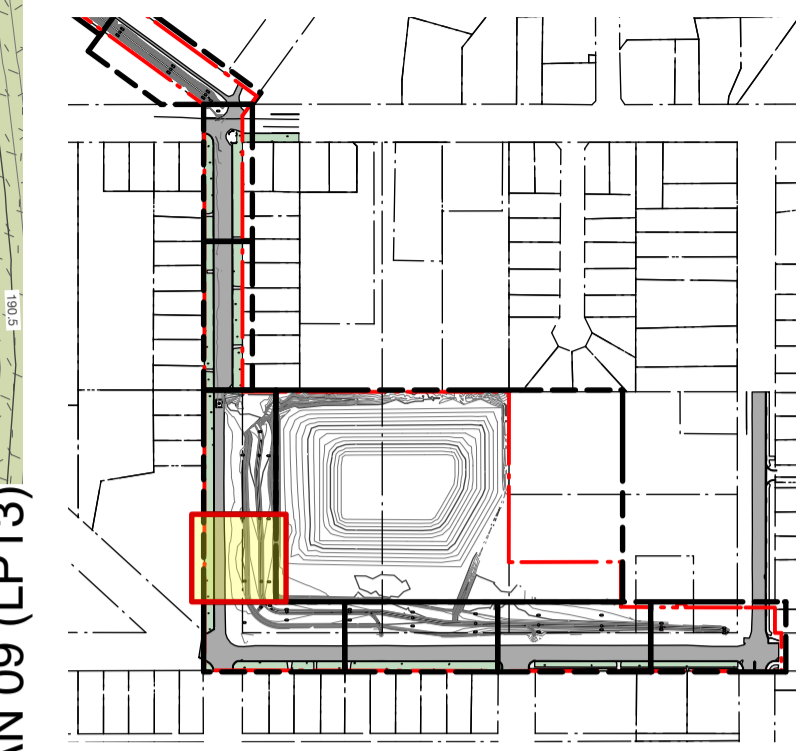
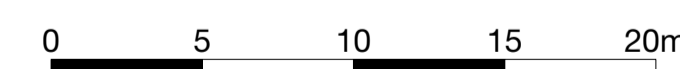
PART B - LANDSCAPE PLAN 03  
Scale 1:250 @ A1



REFERENCE PLAN  
Scale 1:6000 @ A1



PART B - LANDSCAPE PLAN 04  
Scale 1:250 @ A1



REFERENCE PLAN  
Scale 1:6000 @ A1

- LEGEND**
- Extent of work
  - Site boundary
  - Lot boundaries
  - Proposed minor contour
  - Proposed major contour
  - Proposed extent of excavation
- HARDSCAPE**
- Existing road
  - Existing concrete paving
  - P1 - Concrete paving
- SERVICES**
- OHP - Overhead power lines
  - Telecommunications line
  - Water
  - Existing stormwater
  - Proposed stormwater pipe
- MASS PLANTING**
- MP1 - Mass planting 1  
Hydromulched grasses within swale
  - MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
  - MP3 - Mass planting 3  
Hydromulched perennial grasses
- TREES**
- Existing trees to be removed
  - Existing trees to be retained and protected
  - Eucalyptus microtheca*  
Coolabah

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**PART B - LANDSCAPE PLAN 03 & 04**

ORIGINAL DRAWING AT A1	Project No. <b>2114</b>
SCALE: 1:250	Drawing No. <b>LP10</b>
Drawn By: CN / AG	Rev <b>D</b>
Checked By: TB	

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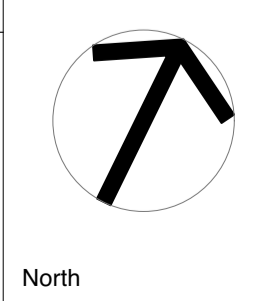
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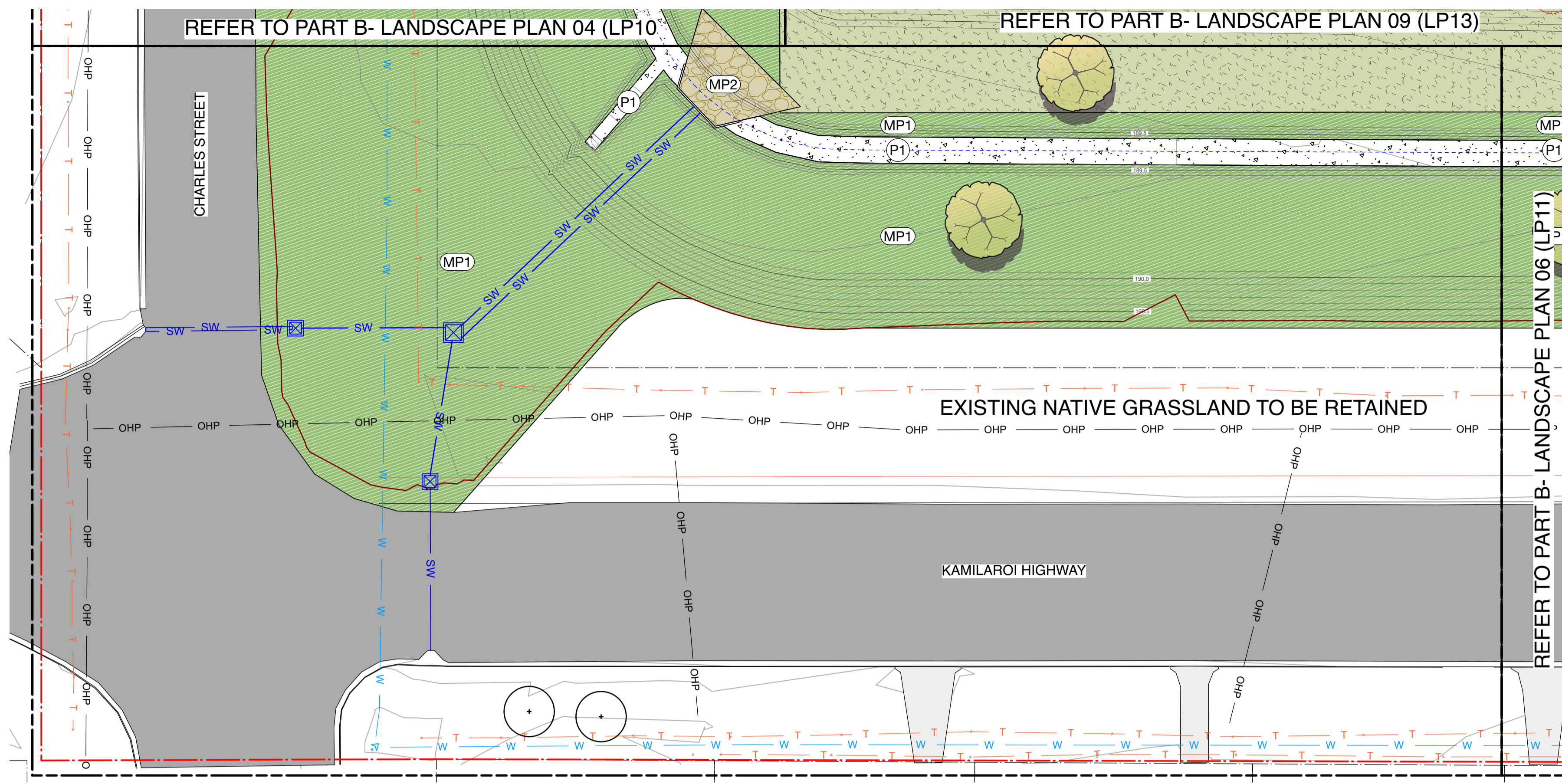
Architect:  
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Engineer:  
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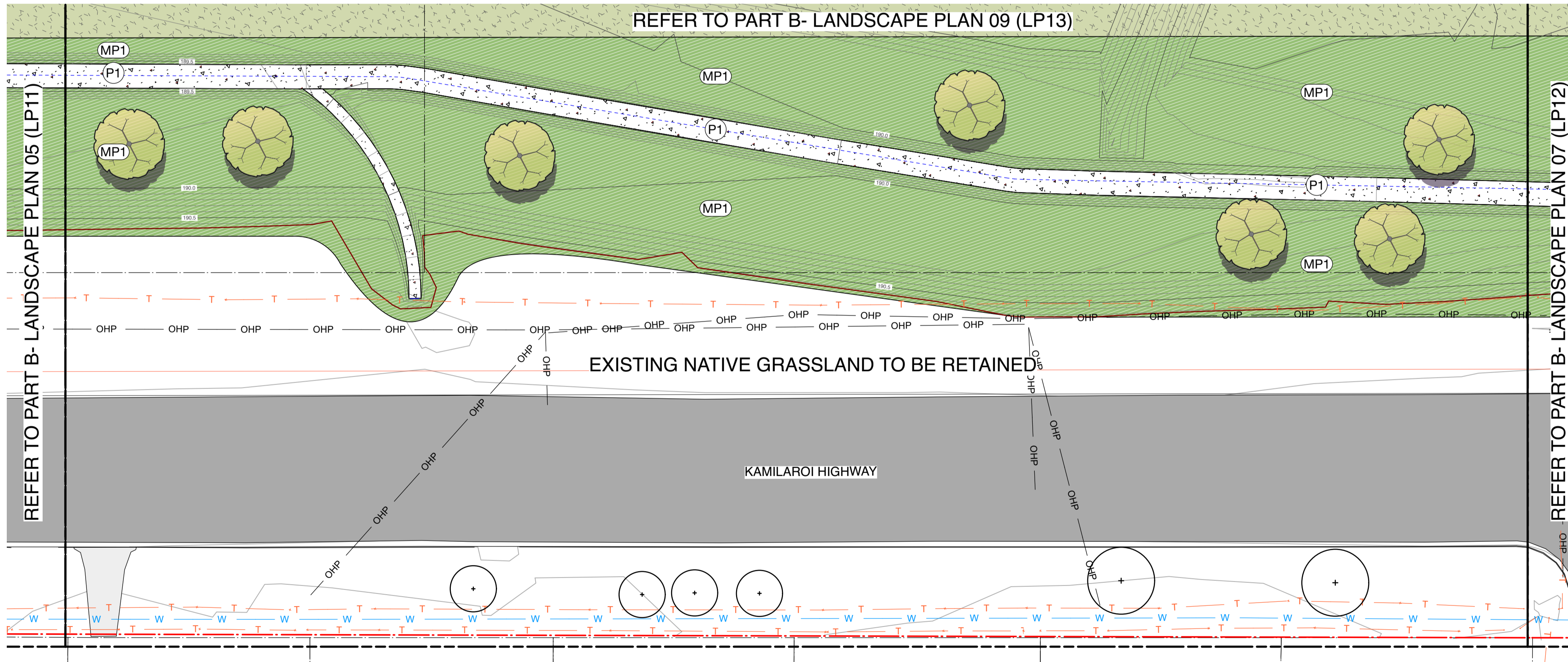
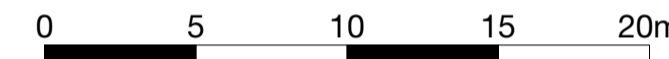
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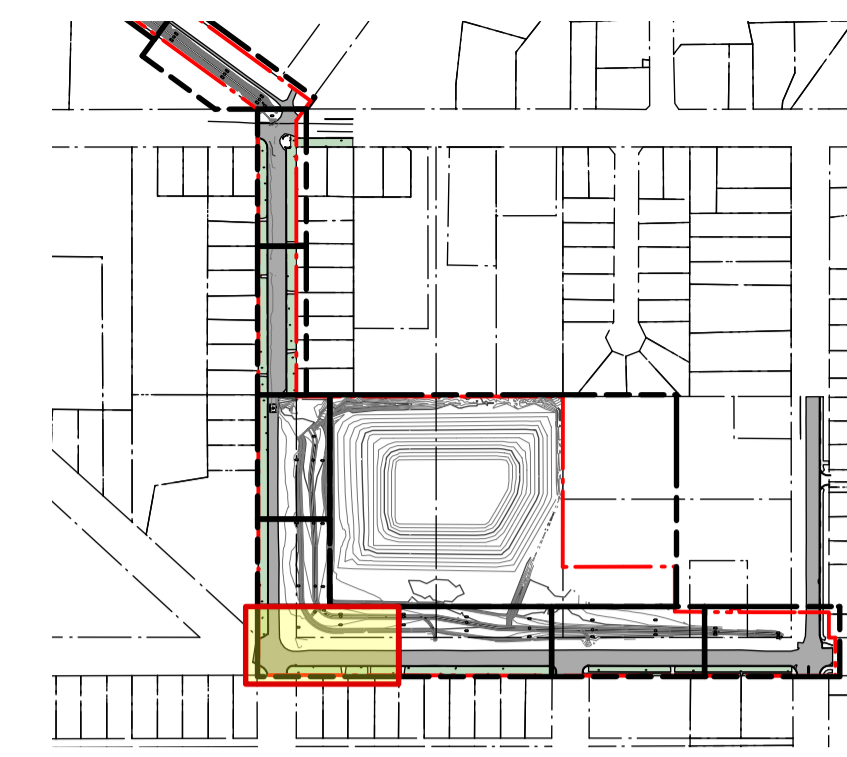
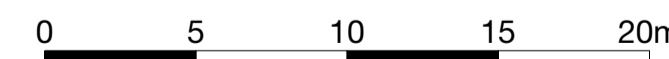
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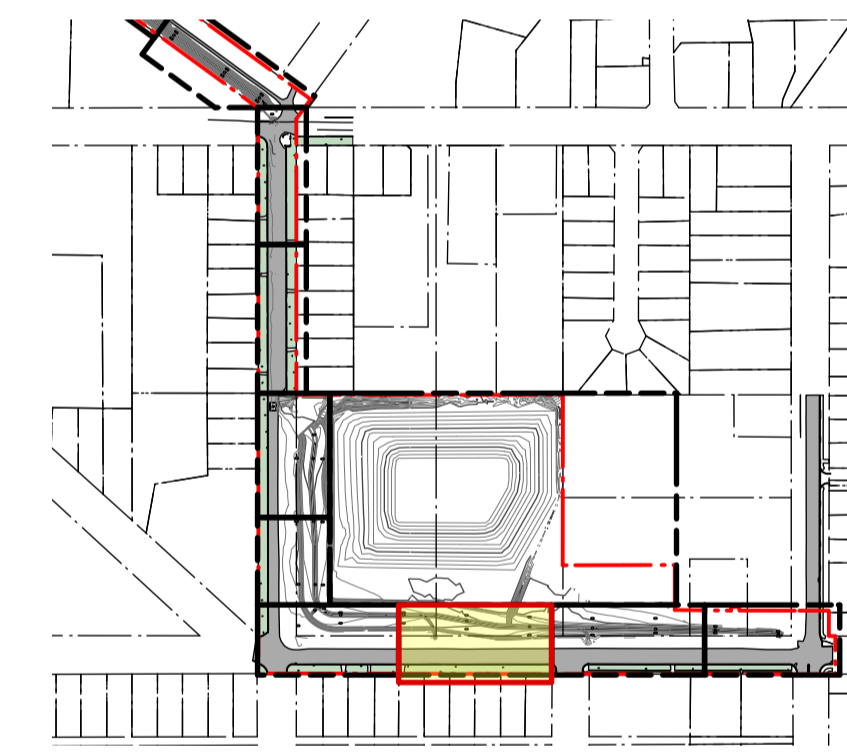
PART B - LANDSCAPE PLAN 05  
Scale 1:250 @ A1



PART B - LANDSCAPE PLAN 06  
Scale 1:250 @ A1



REFERENCE PLAN  
Scale 1:6000 @ A1



REFERENCE PLAN  
Scale 1:6000 @ A1

- LEGEND**
- Extent of work
  - Site boundary
  - Lot boundaries
  - Proposed minor contour
  - Proposed major contour
  - Proposed extent of excavation
- HARDSCAPE**
- Existing road
  - Existing concrete paving
  - P1 - Concrete paving
- SERVICES**
- Overhead power lines
  - Telecommunications line
  - Water
  - Existing stormwater
  - Proposed stormwater pipe

- MASS PLANTING**
- MP1 - Mass planting 1  
Hydromulched grasses within swale
  - MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
  - MP3 - Mass planting 3  
Hydromulched perennial grasses

- TREES**
- Existing trees to be removed
  - Existing trees to be retained and protected
  - Eucalyptus microtheca*  
*Coolabah*

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**SHAC**

Engineer:  
**Warren Smith Consulting Engineers**

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**Wee Waa Flood Mitigation**

Off Kamilaroi Highway, Wee Waa NSW

Built

**PART B - LANDSCAPE PLAN 05 & 06**

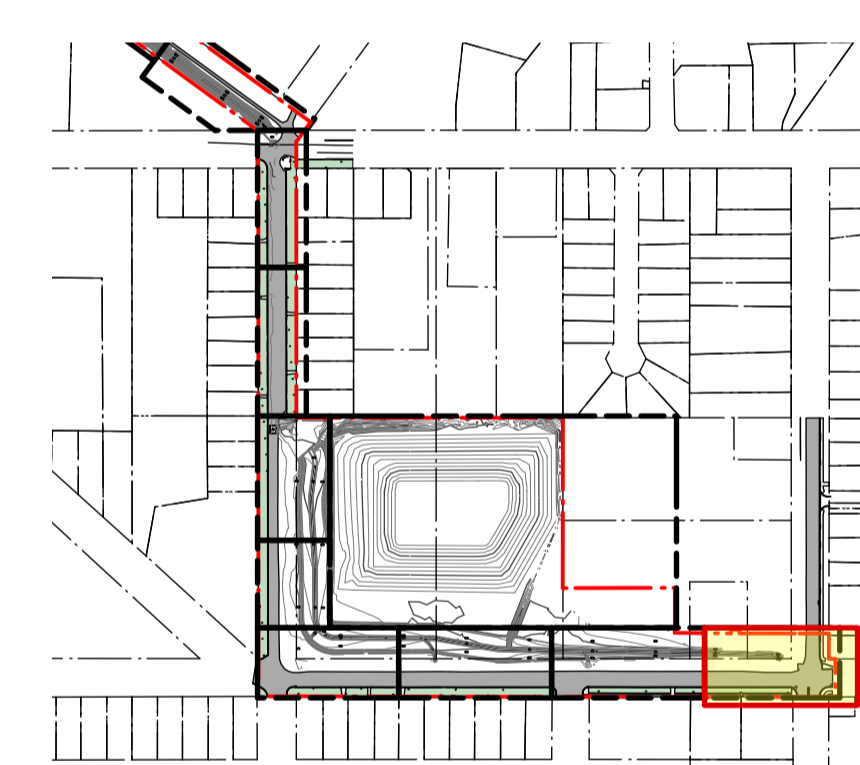
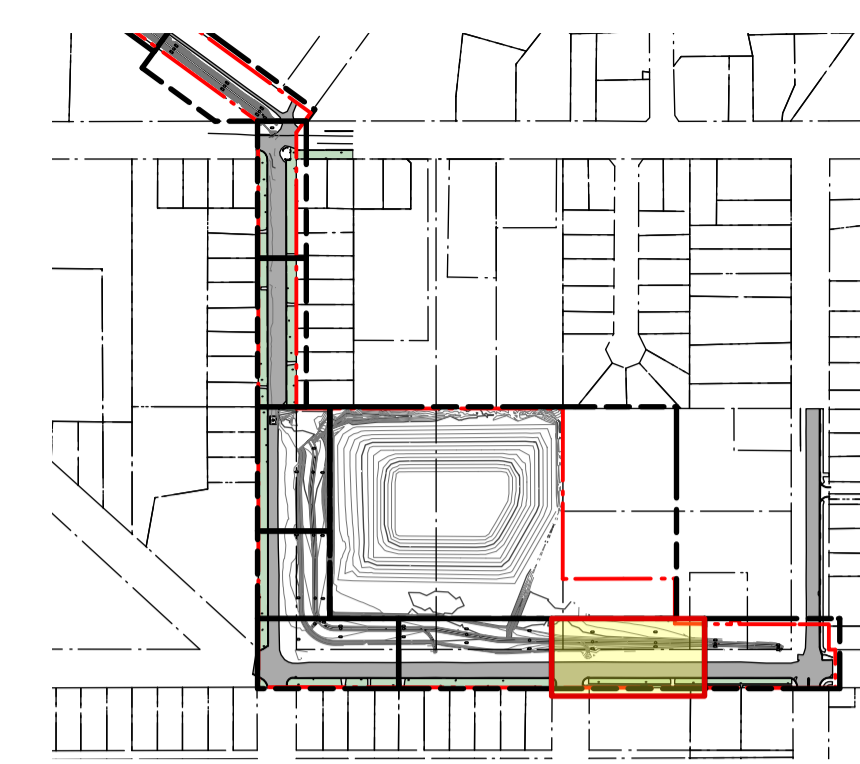
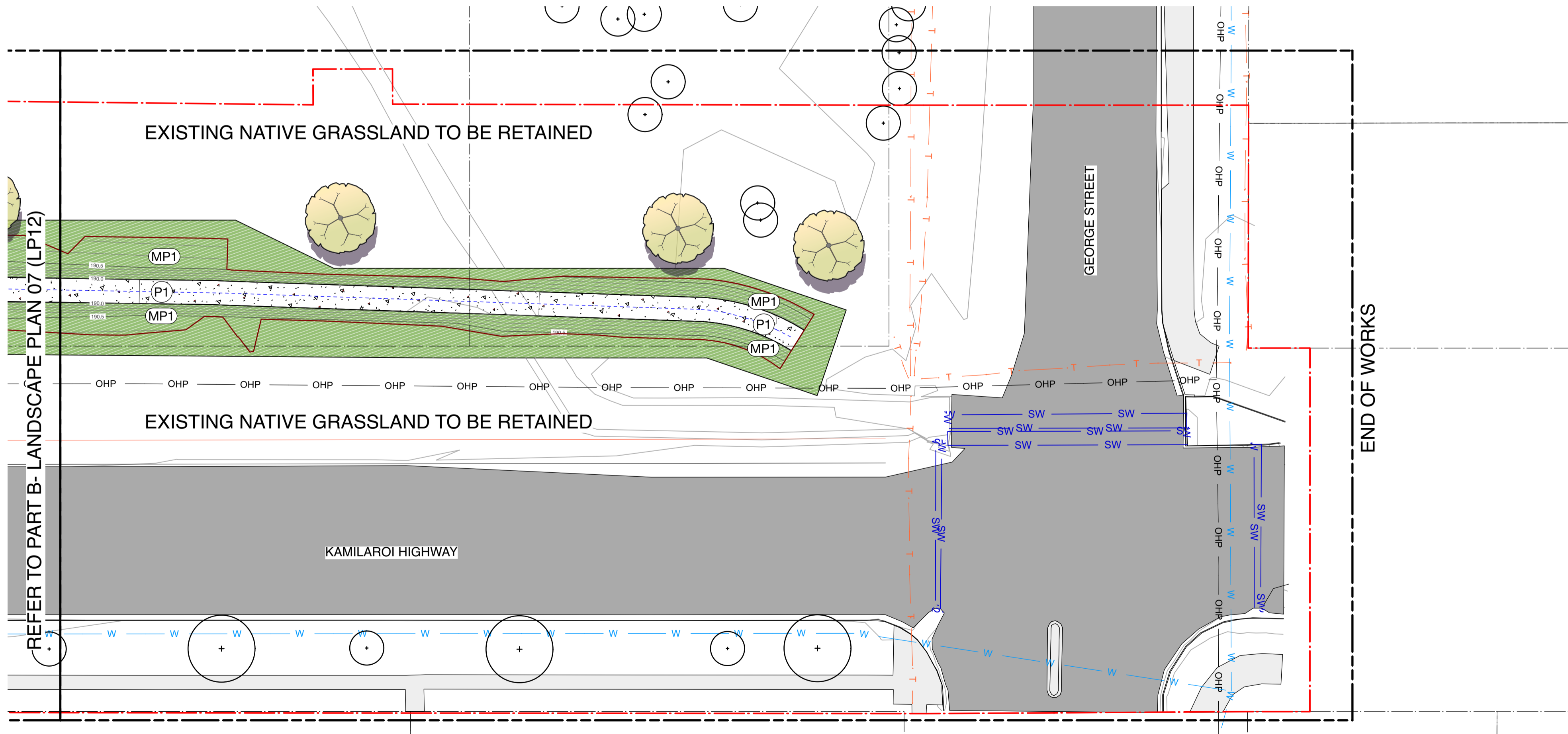
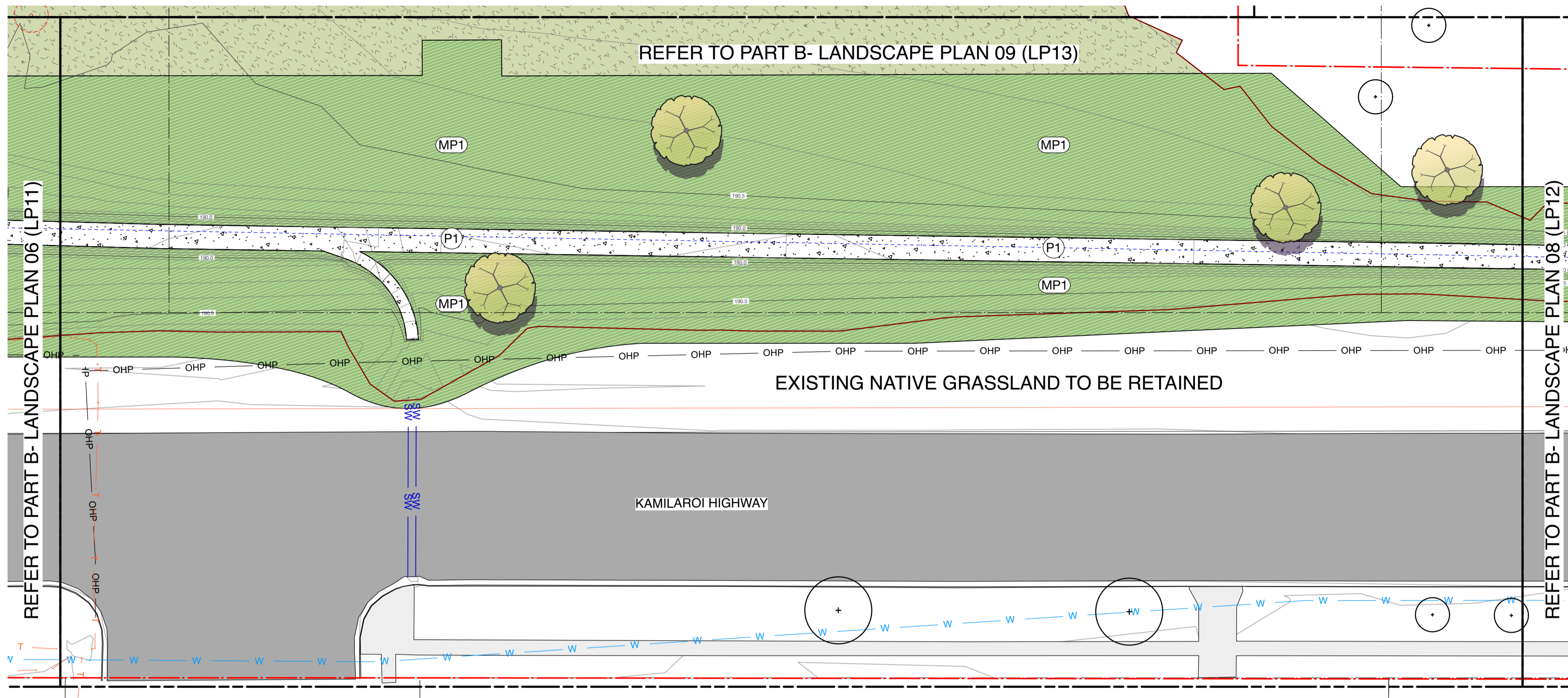
SCALE: 1:250

ORIGINAL DRAWING AT A1.

Drawn By: CN / AG  
Checked By: TB

Project No. **2114**

Drawing No. **LP11** Rev **D**



- LEGEND**
- Extent of work
  - Site boundary
  - Lot boundaries
  - Proposed minor contour
  - Proposed major contour
  - Proposed extent of excavation
- HARDSCAPE**
- Existing road
  - Existing concrete paving
  - P1 - Concrete paving
- SERVICES**
- OHP - Overhead power lines
  - T - Telecommunications line
  - W - Water
  - Existing stormwater
  - Proposed stormwater pipe
- MASS PLANTING**
- MP1 - Mass planting 1  
Hydromulched grasses within swale
  - MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
  - MP3 - Mass planting 3  
Hydromulched perennial grasses
- TREES**
- Existing trees to be removed
  - Existing trees to be retained and protected
  - Eucalyptus microtheca*  
Coolabah

**NOT FOR CONSTRUCTION**

**PART B - LANDSCAPE PLAN 07 & 08**

ORIGINAL DRAWING AT A1	Project No. <b>2114</b>
SCALE: 1:250	Drawing No. <b>LP12</b>
Drawn By: CN / AG	Rev <b>D</b>
Checked By: TB	

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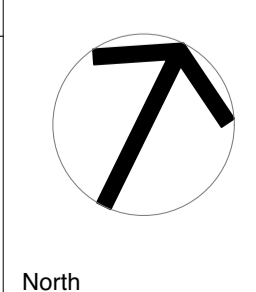
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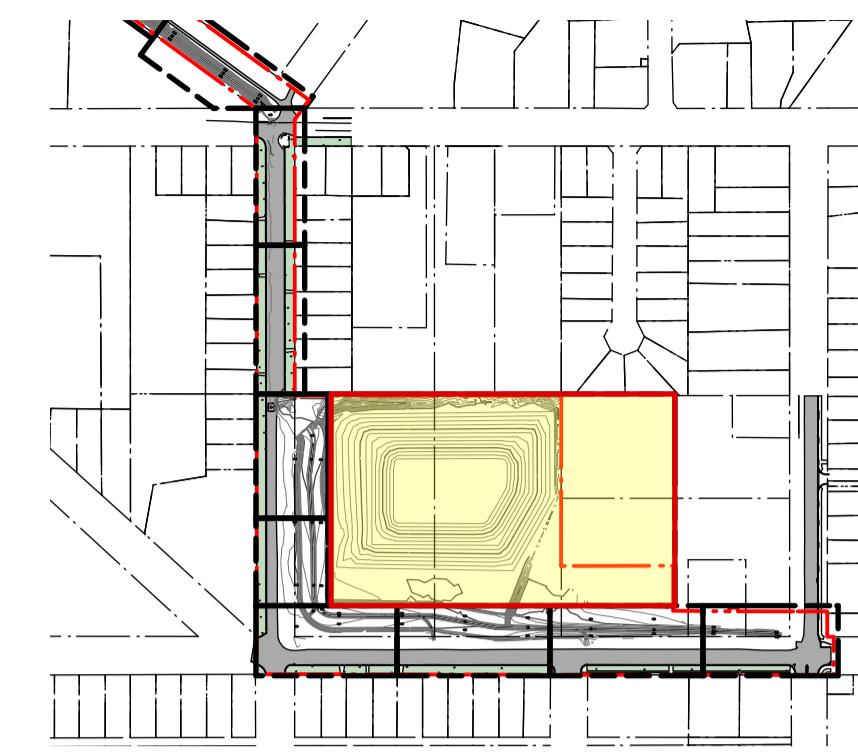
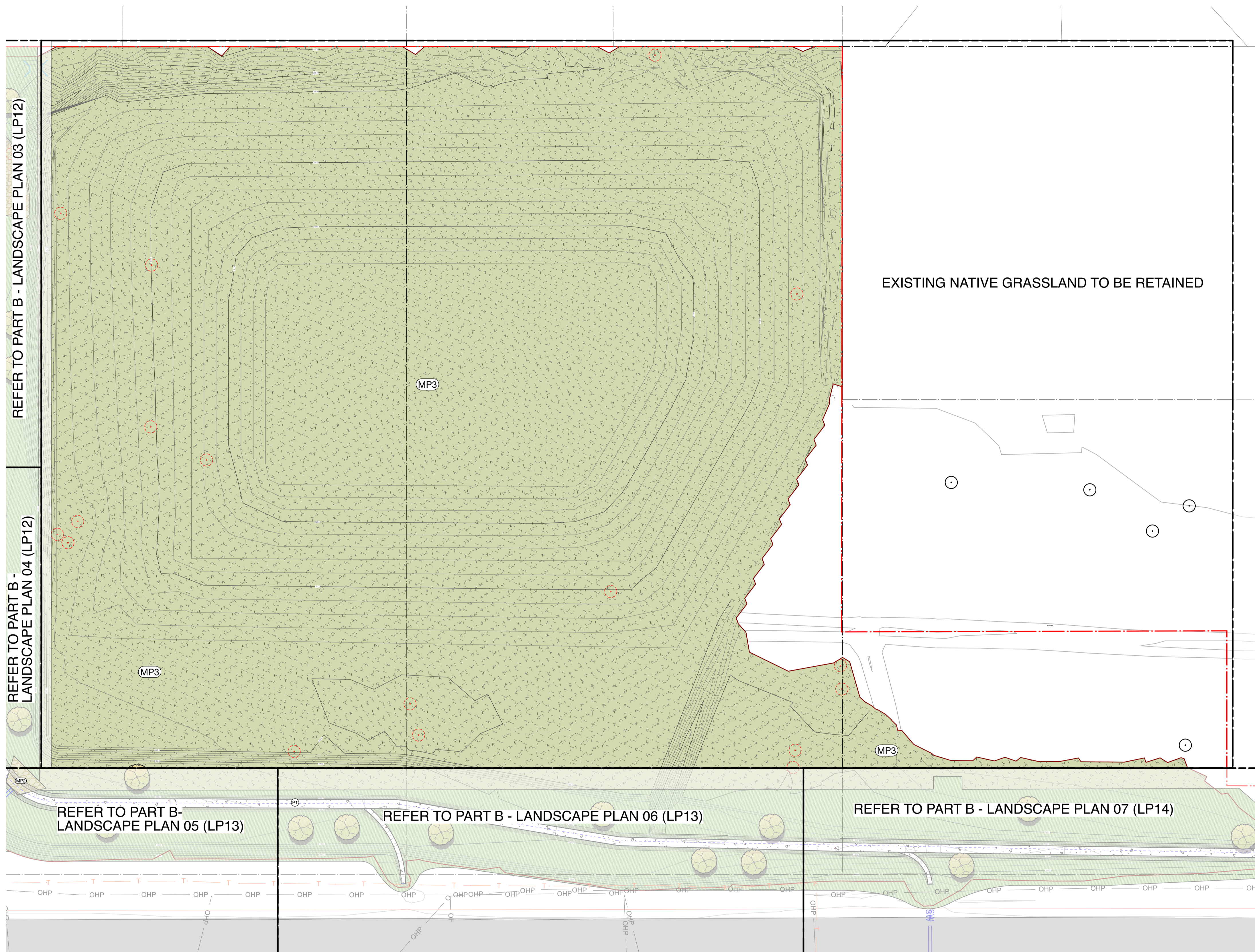
Architect:  
**SHAC**

Engineer:  
**Warren Smith Consulting Engineers**

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**Wee Waa Flood Mitigation**  
Off Kamilaroi Highway, Wee Waa NSW  
Built



REFERENCE PLAN  
Scale 1:6000 @ A1

EXISTING NATIVE GRASSLAND TO BE RETAINED

- LEGEND**
- Extent of work
  - - - Site boundary
  - - - Lot boundaries
  - - - Proposed minor contour
  - - - Proposed major contour
  - - - Proposed extent of excavation
- HARDSCAPE**
- Existing road
  - Existing concrete paving
  - (P1) P1 - Concrete paving
- SERVICES**
- OHP Overhead power lines
  - T Telecommunications line
  - W Water
  - Existing stormwater
  - Proposed stormwater pipe
- MASS PLANTING**
- (MP1) MP1 - Mass planting 1  
Hydromulched grasses within swale
  - (MP2) MP2 - Mass planting 2  
Rip rap planting; refer to Civil Documentation
  - (MP3) MP3 - Mass planting 3  
Hydromulched perennial grasses
- TREES**
- Existing trees to be removed
  - Existing trees to be retained and protected
  - Eucalyptus microtheca*  
Coolabah

REFER TO PART B - LANDSCAPE PLAN 03 (LP12)

REFER TO PART B - LANDSCAPE PLAN 04 (LP12)

REFER TO PART B - LANDSCAPE PLAN 05 (LP13)

REFER TO PART B - LANDSCAPE PLAN 06 (LP13)

REFER TO PART B - LANDSCAPE PLAN 07 (LP14)

PART B - LANDSCAPE PLAN 09  
Scale 1:500 @ A1



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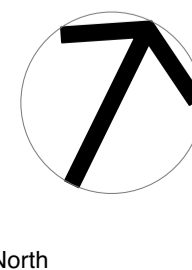
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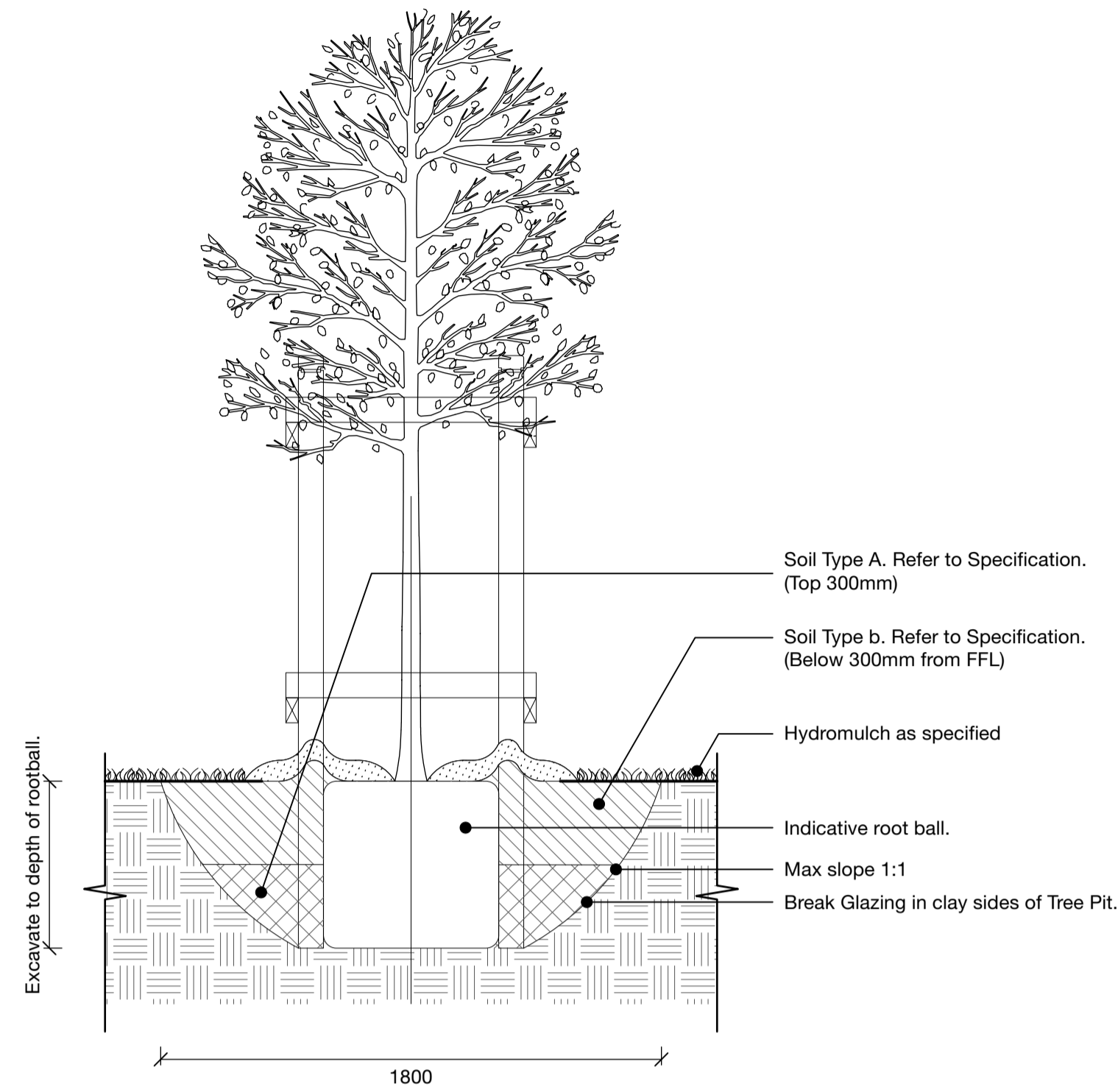
Engineer:  
**Warren Smith Consulting Engineers**

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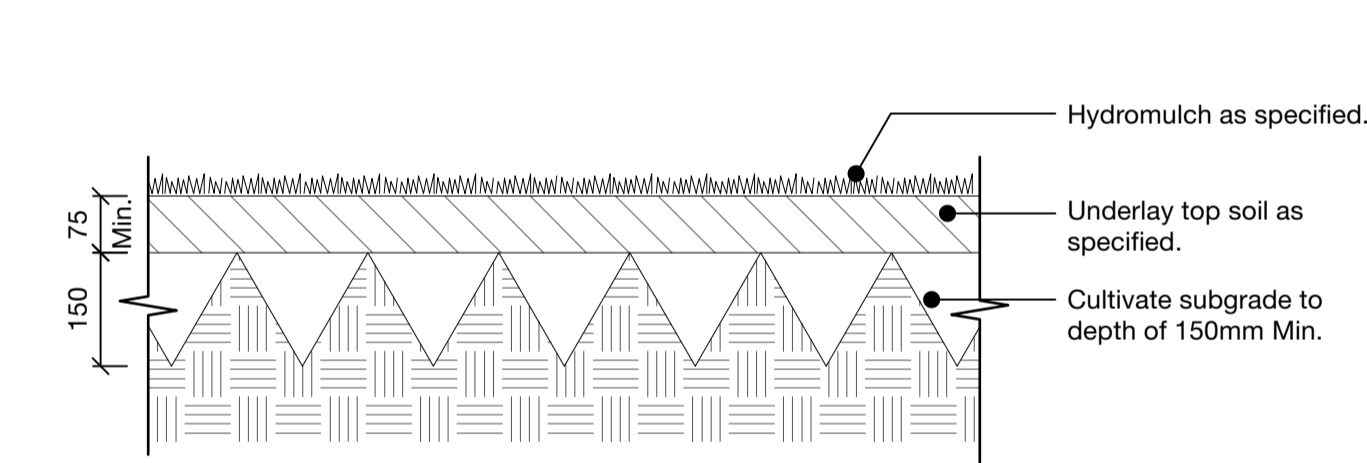


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<b>PART B - LANDSCAPE PLAN 09</b>	
SCALE: 1:500 ORIGINAL DRAWING AT A1.	Project No. <b>2114</b>
Drawn By: CN / AG Checked By: TB	Drawing No. <b>LP13</b> Rev <b>D</b>

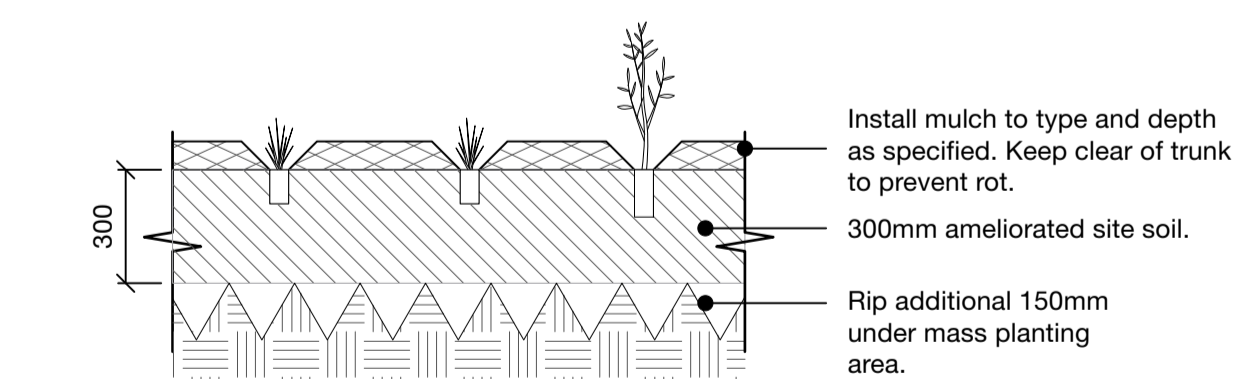


01 TYPICAL TREE IN MASS PLANTING DETAIL  
Scale: 1:20



- NOTES:
1. Finish crossfall shall be 1:80 min. Finish flush with adjoining surfaces.
  2. Ameliorate site soil or import topsoil to provide an underlay that complies with AS4419.
  3. Ameliorate clay subsoil with gypsum applied at the rate specified by the manufacturer. Remove contaminated areas, deleterious material such as large rocks greater than 50mm, rubbish and large twigs.
  4. Water in and maintain consistent deep watering for 14 weeks minimum.
  5. Consistently top dress depressions to provide an even surface.
  6. Control pests and disease consistently during the remainder of the planting establishment period.

02 TYPICAL HYDROMULCHING PLANTING DETAIL  
Scale: 1:10



03 TYPICAL MASS PLANTING DETAIL  
Scale: 1:20

Planting Schedule

Code	Botanical Name	Common Name	Pot Size	Mature Height	Mature Width	Qty	Rate	Overall Area	
<b>Trees</b>									
EUC mic	<i>Eucalyptus microtheca</i>	Coolabah	45 litre	15 - 25m	6 - 10m	62			
<b>MP1 Hydromulched grasses within swale</b>									
ARI ram	<i>Aristida ramosa</i>	Purple Wiregrass	Seeded Hydromulch				12.5% mix	23,247 sqm	
AUS ver	<i>Austrostipa verticilata</i>	Slender Bamboo Grass	Seeded Hydromulch				12.5% mix		
AUS sca	<i>Austrostipa scabra</i>	Rough Spear Grass	Seeded Hydromulch				12.5% mix		
CHL tru	<i>Chloris truncata</i>	Windmill Grass	Seeded Hydromulch				12.5% mix		
DIC ser	<i>Dicanthium sericeum spp sericeum</i>	Queensland Bluegrass	Seeded Hydromulch				12.5% mix		
DIG bro	<i>Digitaria brownii</i>	Cotton Grass	Seeded Hydromulch				12.5% mix		
RYT bip	<i>Rytidosperma bipartitum</i>	Wallaby Grass	Seeded Hydromulch				12.5% mix		
SPO cre	<i>Sporobolus creba</i>	Slender Rat's Tail Grass	Seeded Hydromulch				12.5% mix		
<b>MP2 Rip rap mass planting</b>									
CAR app	<i>Carex appressa</i>	Tall Sedge	Tube stock	0.8 - 1.0m	0.6 - 0.9m	1445	4 / sqm		722 sqm
ISO nod	<i>Isolepis nodosa</i>	Knobby Club-rush	Tube stock	0.6 - 0.75m	0.3 - 0.6m	1445	4 / sqm		
<b>*MP3 Hydromulched perennial grasses</b>									
SKU WALV01	<i>Rytidosperma geniculata</i>	Easy Spread Wallaby Lawn Mix	Seeded Hydromulch					31,689 sqm	

\*Use seed mix from supplier Native Seeds (1300473337), applied at the rate recommended by the suppliers.

NOTE:

CONTRACTOR IS REQUIRED TO CHECK ALL NUMBERS ON DRAWINGS AND CONFIRM WITH SCHEDULE PRIOR TO ORDERING. NUMBERS ON DRAWINGS TO TAKE PRECEDENCE ALONG WITH QUARE METRE RATES.

NOT FOR CONSTRUCTION

