

NOTES

THE FOLLOWING SPECIFICATIONS / STD. DRG'S ARE TO BE USED FOR THIS CONTRACT.

SPECIFICATION:
ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS - EDITION 1, REVISION 0 / SEPTEMBER 2002.

ACT GOVERNMENT STD. DRGS:
DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

GENERAL NOTES:
ALL PAVEMENT MARKINGS AND SIGN POSTING ARE TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1742 EXCEPT WHERE MODIFIED BY ACT DEPARTMENT OF URBAN SERVICES 'DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS'.

ALL SIGNAGE INSTALLED ON ELP'S ARE TO BE POSITIONED TO AVOID COVERING THE ELP ASSET NUMBER.

ALL SIGN BLADES ARE TO BE ERECTED AT A HEIGHT TO UNDERSIDE OF BLADE THAT CONFORMS WITH AS 1742.2 (2.0m MIN. GENERALLY, 2.5m MIN. IF OVERHANGING FOOTPATH). EXISTING POSTS MAY BE USED IF PRACTICABLE OR SHALL BE EXTENDED OR REPLACED IF NOT.

ALL LINES TO BE ERADICATED SHALL BE REMOVED BY GRITBLASTING, SHOTBLASTING OR OTHER APPROVED METHOD. BLACKING OUT OF LINES WITH DEGADUR OR OTHER COATINGS IS NOT PERMISSIBLE.

EXISTING RPM'S TO BE REMOVED ARE NOT SHOWN FOR CLARITY. THE CONTRACTOR SHALL REMOVE AND MAKE GOOD ALL REDUNDANT RPM'S.

LEGEND

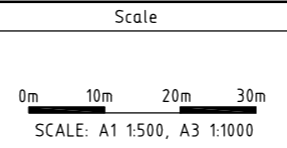
- ERADICATE LINEMARKING
- EXISTING LINEMARKING
- APPLY NEW LINEMARKING

| WORK AS EXECUTED | DESIGN AGENT | OFFICE OF A.C.T. |
|--|-----------------------------------|--|
| DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM | RECOMMENDED FOR AUTHORISATION | AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999 |
| DATE: | | |
| CONSULTANT GHD | DRAWING NAME MOLONGLO STAGE 1D | AUTHORISING SIGNATURE |
| NAME | | DATE: |
| SIGNATURE | SCALE: 1:500 | DOCUMENT NUMBER |
| DATE: | | |

SIGN SCHEDULE

| DESCRIPTION | HAND | SIZE | NO. OF. |
|---------------------------------|------|------|---------|
| SIGNS TO BE ERECTED | | | |
| G2-1 GUIDE SIGN | - | - | 1 |
| G5-1 STREET NAME FINGERBOARD | - | - | 7 |
| G9-57 WATCH FOR BICYCLES | - | A | 5 |
| R1-2 GIVE WAY | - | A | 2 |
| R2-2 ONE WAY | L | A | 2 |
| R2-4 NO ENTRY | - | A | 1 |
| R2-9 LEFT LANE MUST TURN LEFT | L | B | 1 |
| R4-1 SPEED RESTRICTION (70KM/H) | - | B | 2 |
| R7-1-4 BICYCLE LANE | - | C | 2 |
| R9-2 BUSES EXCEPTED | - | B | 1 |
| SPECIAL NO RIGHT TURN AT JGD | - | - | 1 |
| SIGNS TO BE REMOVED | | | |
| - | - | - | - |

| AMENDMENTS | | |
|------------|----------|------|
| AMENDMENT | APPROVAL | DATE |
| | | |
| | | |
| | | |



Design Agent

Designed by MG
Drawn by BvA
Checked by MG
Approved by PF

Client

Project Officer:
Mick Lyons
Project Officer:
Neil Hughes

Project

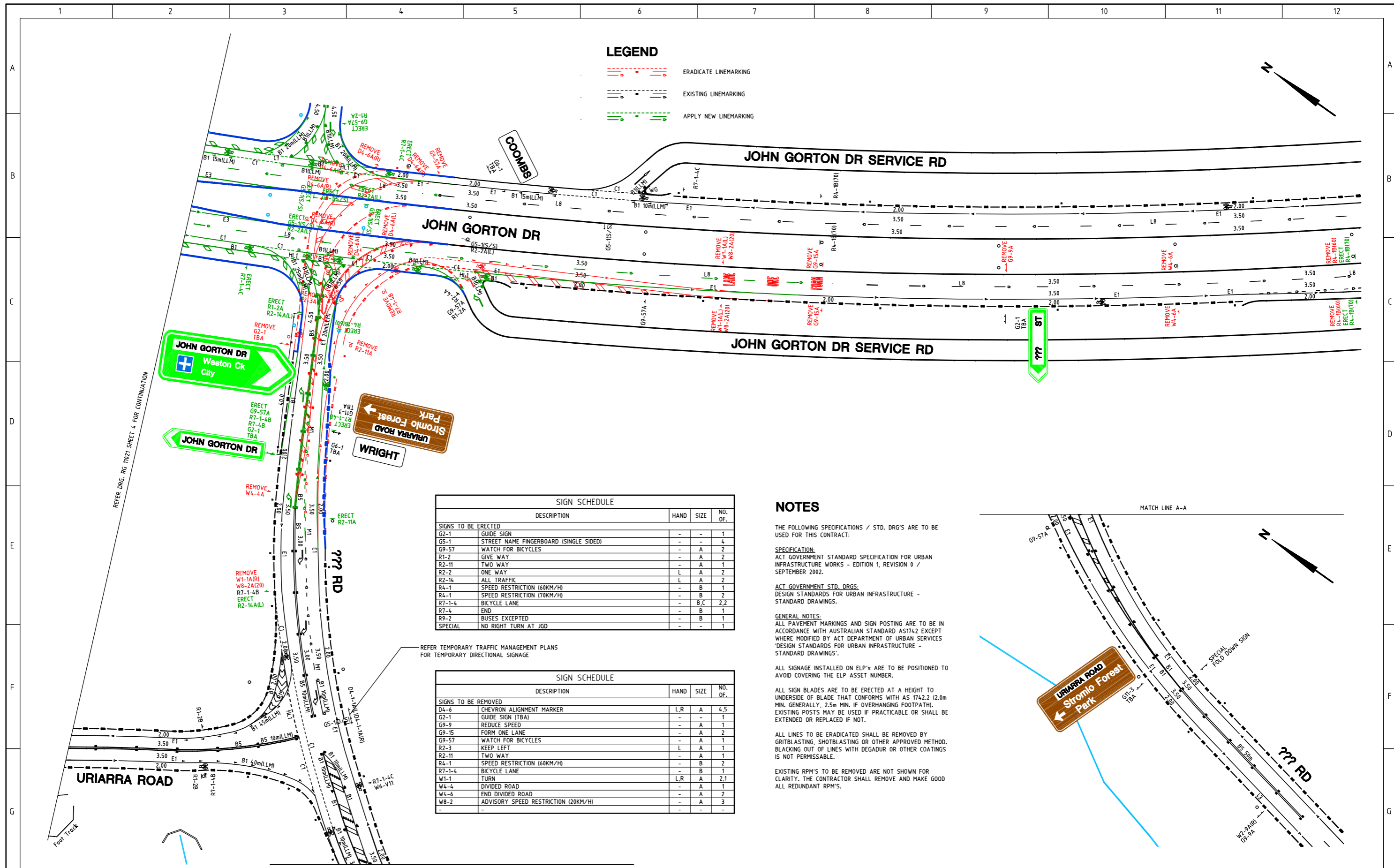
MOLONGLO STAGE 1D

Scale AS SHOWN
Date 16/09/11

Drawing Title

TRAFFIC CONTROL DEVICE PLAN
- 4 OF 6

Drg. No. RG 11021
Sheet 4
Revision 0



LEGEND

| | |
|--|-----------------------|
| | ERADICATE LINEMARKING |
| | EXISTING LINEMARKING |
| | APPLY NEW LINEMARKING |

SIGN SCHEDULE

| DESCRIPTION | HAND | SIZE | NO. OF. |
|----------------------------|------|------|---------|
| SIGNS TO BE ERECTED | | | |
| G2-1 | - | - | 1 |
| G5-1 | - | - | 4 |
| G9-57 | - | A | 2 |
| R1-2 | - | A | 2 |
| R2-11 | - | A | 1 |
| R2-2 | L | A | 2 |
| R2-14 | L | A | 2 |
| R4-1 | - | B | 1 |
| R4-1 | - | B | 2 |
| R7-1-4 | - | B,C | 2,2 |
| R7-4 | - | B | 1 |
| R9-2 | - | B | 1 |
| SPECIAL | - | - | 1 |

SIGN SCHEDULE

| DESCRIPTION | HAND | SIZE | NO. OF. |
|----------------------------|------|------|---------|
| SIGNS TO BE REMOVED | | | |
| D4-6 | L,R | A | 4,5 |
| G2-1 | - | - | 1 |
| G9-9 | - | A | 1 |
| G9-15 | - | A | 2 |
| G9-57 | - | A | 1 |
| R2-3 | L | A | 1 |
| R2-11 | - | A | 1 |
| R4-1 | - | B | 2 |
| R7-1-4 | - | B | 1 |
| W1-1 | L,R | A | 2,1 |
| W4-4 | - | A | 1 |
| W4-6 | - | A | 2 |
| W8-2 | - | A | 3 |
| - | - | - | - |

NOTES

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SPECIFICATION:
ACT GOVERNMENT STANDARD SPECIFICATION FOR URBAN INFRASTRUCTURE WORKS - EDITION 1, REVISION 0 / SEPTEMBER 2002.

ACT GOVERNMENT STD. DRGS:
DESIGN STANDARDS FOR URBAN INFRASTRUCTURE - STANDARD DRAWINGS.

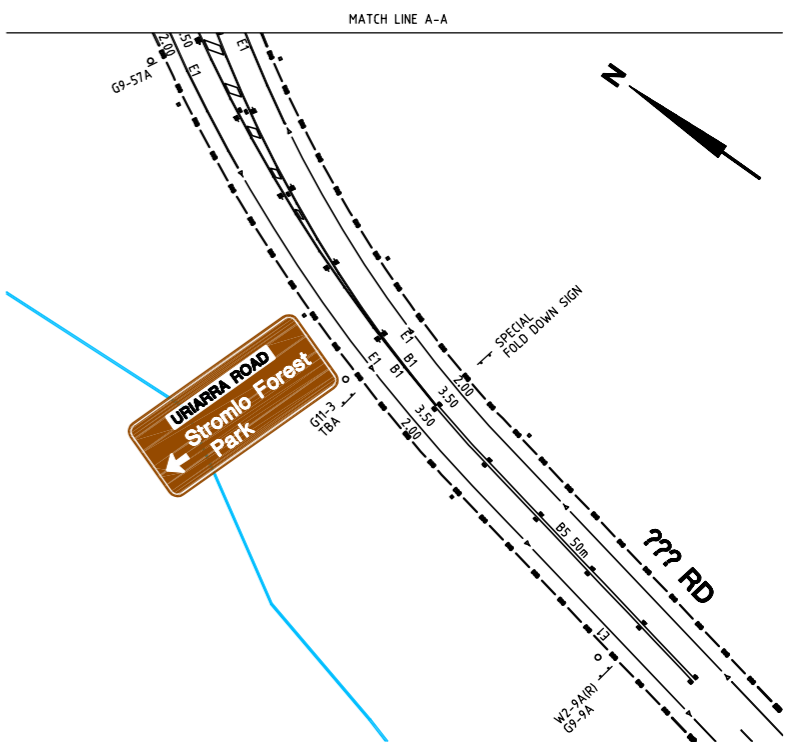
GENERAL NOTES:
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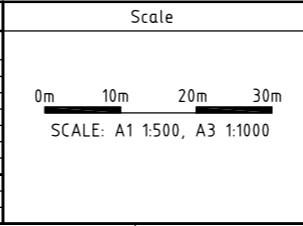
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| | | |
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| WORK AS EXECUTED | DESIGN AGENT | OFFICE OF A.C.T. |
| DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM | RECOMMENDED FOR AUTHORISATION | AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999 |
| DATE: | DRAWING NAME | AUTHORISING SIGNATURE |
| CONSULTANT | MOLONGLO STAGE 1D | DATE: |
| NAME: | SCALE: | DOCUMENT NUMBER |
| SIGNATURE: | 1:500 | |
| DATE: | | |

| AMENDMENTS | | |
|--|-----------------------------|------------------------|
| AMENDMENT | APPROVAL | DATE |
| | | |
| | | |
| DRAWING STAGE - LATEST DATE INDICATES DRAWING STATUS | | |
| Conceptual Design: --/--/-- | Final Sketch Plan: 05/05/11 | Final Design: 16/09/11 |
| For tendering purposes only: --/--/-- Issued for construction: --/--/-- W.A.E.: --/--/-- | | |



Design Agent

Designed by MG
Drawn by BvA
Checked by MG
Approved by PF

Client

Project Officer: Mick Lyons
Project Officer: Neil Hughes

Project

MOLONGLO STAGE 1D

Scale AS SHOWN
Date 16/09/11

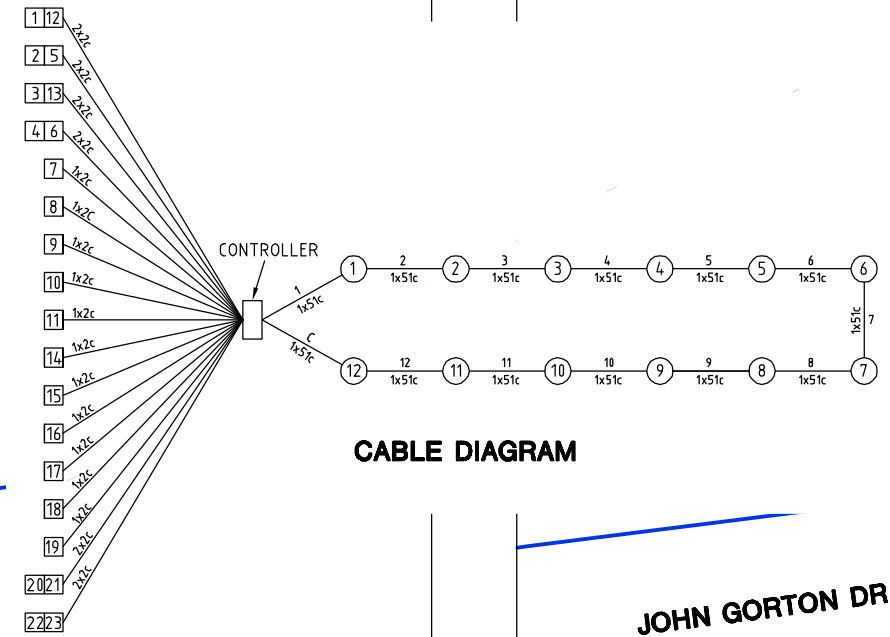
Drawing Title

TRAFFIC CONTROL DEVICE PLAN - 5 OF 6

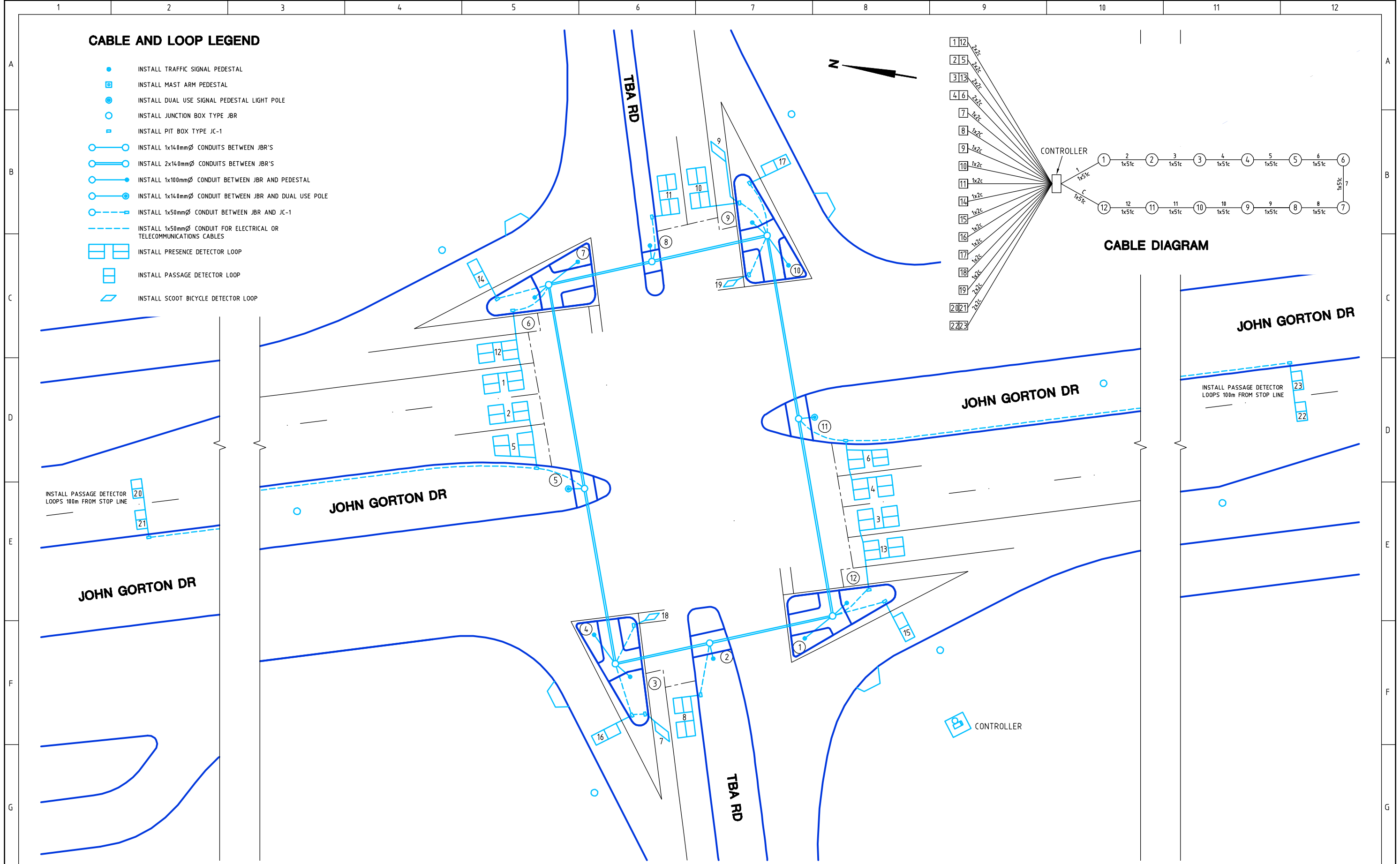
Drg. No. RG 11021
Sheet 5
Revision 0

CABLE AND LOOP LEGEND

- INSTALL TRAFFIC SIGNAL PEDESTAL
- INSTALL MAST ARM PEDESTAL
- INSTALL DUAL USE SIGNAL PEDESTAL LIGHT POLE
- INSTALL JUNCTION BOX TYPE JBR
- INSTALL PIT BOX TYPE JC-1
- INSTALL 1x140mm ϕ CONDUITS BETWEEN JBR'S
- INSTALL 2x140mm ϕ CONDUITS BETWEEN JBR'S
- INSTALL 1x100mm ϕ CONDUIT BETWEEN JBR AND PEDESTAL
- INSTALL 1x140mm ϕ CONDUIT BETWEEN JBR AND DUAL USE POLE
- INSTALL 1x50mm ϕ CONDUIT BETWEEN JBR AND JC-1
- - - - - INSTALL 1x50mm ϕ CONDUIT FOR ELECTRICAL OR TELECOMMUNICATIONS CABLES
- INSTALL PRESENCE DETECTOR LOOP
- INSTALL PASSAGE DETECTOR LOOP
- ▭ INSTALL SCOOT BICYCLE DETECTOR LOOP

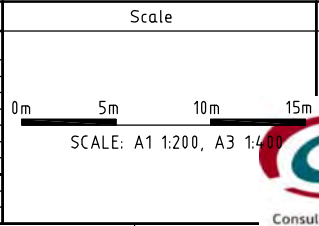


CABLE DIAGRAM



| | | |
|--|-------------------------------|--|
| WORK AS EXECUTED | DESIGN AGENT | OFFICE OF A.C.T. |
| DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM | RECOMMENDED FOR AUTHORISATION | AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999 |
| DATE: | DRAWING NAME | AUTHORISING SIGNATURE |
| CONSULTANT | MOLONGLO STAGE 1D | DATE: |
| GHD | | DOCUMENT NUMBER |
| NAME | | |
| SIGNATURE | | |
| DATE: | SCALE: | |
| | 1:500 | |

| AMENDMENTS | | |
|------------|----------|------|
| AMENDMENT | APPROVAL | DATE |
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|---------------------|
| Design Agent |
| Designed by |
| MG |
| Drawn by |
| BvA |
| Checked by |
| MG |
| Approved by |
| PF |

Client

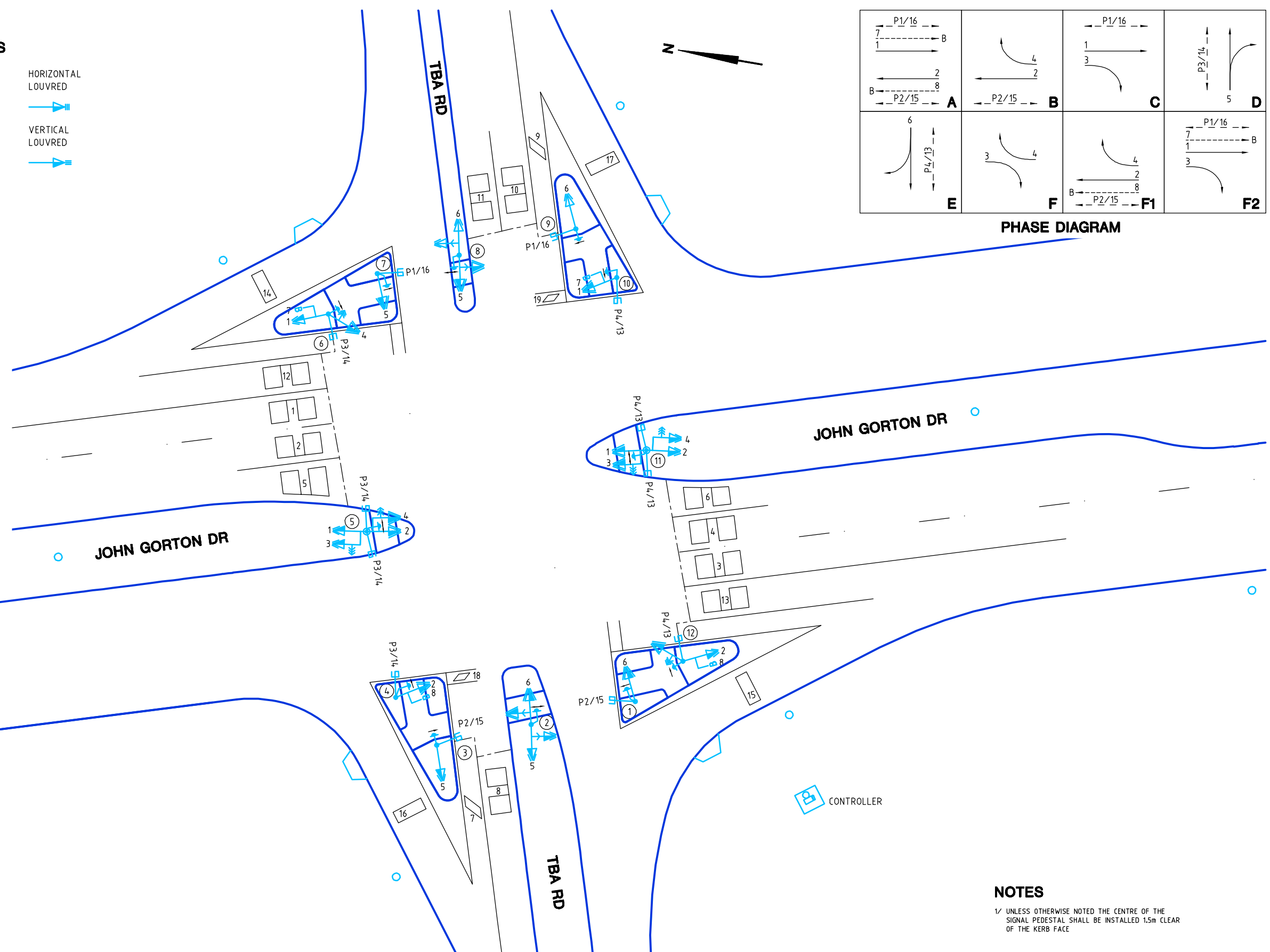
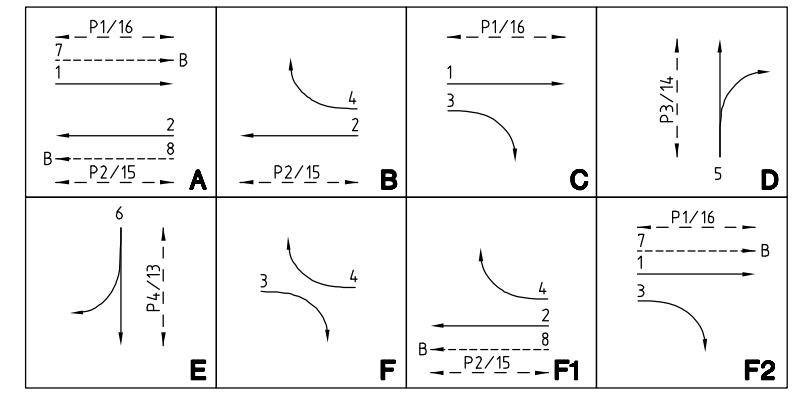
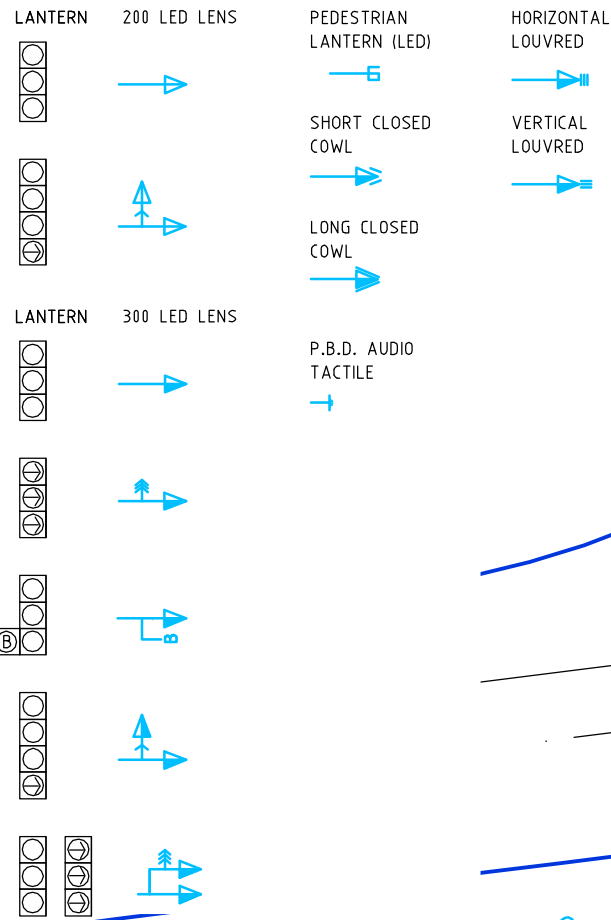
Project Officer:
Mick Lyons

Project Officer:
Neil Hughes

| | |
|-------------------|---|
| Project | Drawing Title |
| MOLONGLO STAGE 1D | CABLE AND LOOP LAYOUT TBA / JOHN GORTON DR |
| Scale | Date |
| AS SHOWN | 16/09/11 |

| | | |
|-----------------|--------------|-----------------|
| Drg. No. | Sheet | Revision |
| RG 11021 | 7 | 0 |

SYMBOLS FOR TRAFFIC SIGNALS

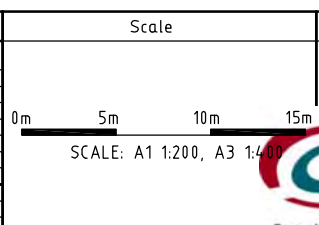


CONTROLLER

NOTES
 1/ UNLESS OTHERWISE NOTED THE CENTRE OF THE SIGNAL PEDESTAL SHALL BE INSTALLED 1.5m CLEAR OF THE KERB FACE

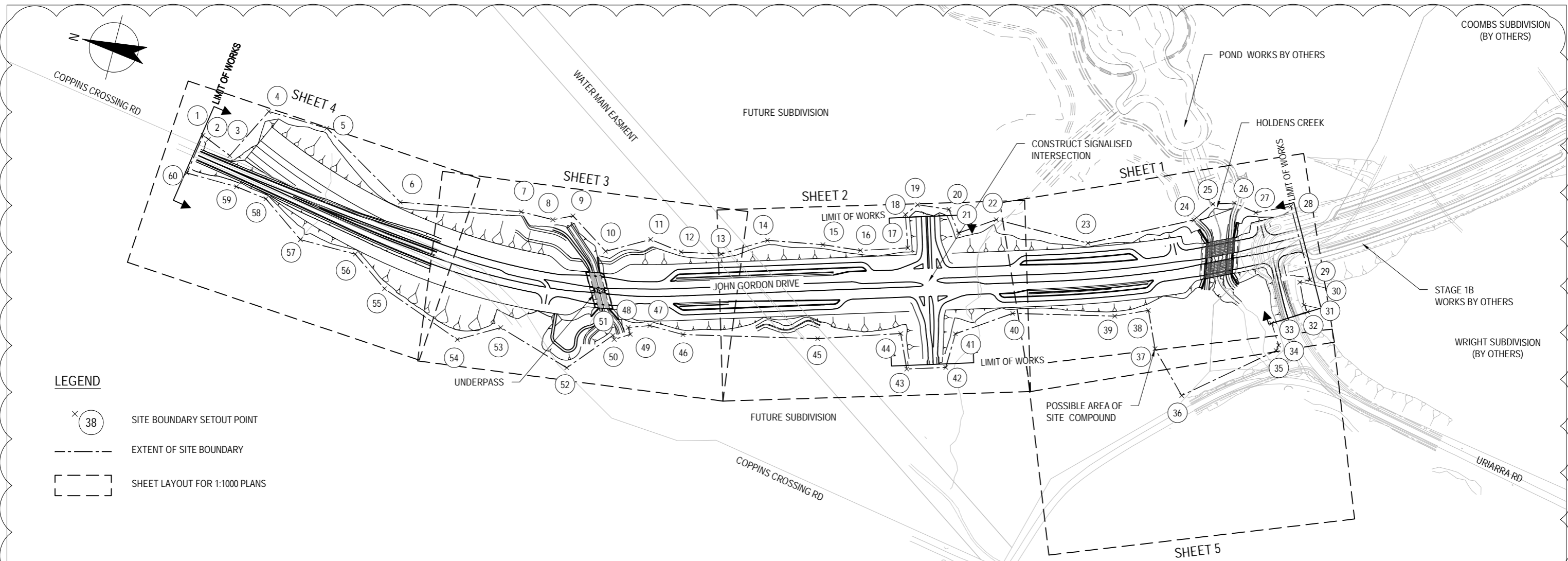
| | | |
|---|--------------------------------|--|
| WORK AS EXECUTED | DESIGN AGENT | OFFICE OF A.C.T. |
| DRAWING AMENDED IN ACCORDANCE WITH ADVICE FROM: | RECOMMENDED FOR AUTHORISATION: | AUTHORISED PURSUANT TO PART V of Road Transport (Safety and Traffic Management) ACT 1999 |
| DATE: | DRAWING NAME: | AUTHORISING SIGNATURE: |
| CONSULTANT: | MOLONGLO STAGE 1D | DATE: |
| NAME: | SCALE: | DOCUMENT NUMBER: |
| SIGNATURE: | 1:500 | |
| DATE: | | |

| AMENDMENTS | | |
|------------|----------|------|
| AMENDMENT | APPROVAL | DATE |
| | | |
| | | |
| | | |



| | |
|---------------------|------------------------------|
| Design Agent | Client |
| Designed by: MG | GHD |
| Drawn by: BvA | |
| Checked by: MG | Project Officer: Mick Lyons |
| Approved by: PF | Project Officer: Neil Hughes |

| | |
|-------------------|---|
| Project | Drawing Title |
| MOLONGLO STAGE 1D | HARDWARE LAYOUT TBA / JOHN GORTON DR |
| Scale: AS SHOWN | Date: 16/09/11 |
| Drg. No. RG 11021 | Sheet 8 |
| | Revision 0 |



- LEGEND**
- ⊗ 38 SITE BOUNDARY SETOUT POINT
 - EXTENT OF SITE BOUNDARY
 - SHEET LAYOUT FOR 1:1000 PLANS

SITE BOUNDARY SETOUT POINTS

| SETOUT POINTS | | | SETOUT POINTS | | | SETOUT POINTS | | | SETOUT POINTS | | |
|---------------|------------|------------|---------------|------------|------------|---------------|------------|------------|---------------|------------|------------|
| POINT | EASTING | NORTHING | POINT | EASTING | NORTHING | POINT | EASTING | NORTHING | POINT | EASTING | NORTHING |
| 1 | 201924.258 | 601362.283 | 16 | 201996.184 | 600507.506 | 31 | 202073.399 | 599938.066 | 46 | 201833.639 | 600700.616 |
| 2 | 201920.932 | 601354.390 | 17 | 202014.901 | 600449.322 | 32 | 202066.350 | 599931.585 | 47 | 201833.964 | 600744.702 |
| 3 | 201907.540 | 601322.618 | 18 | 202055.456 | 600463.369 | 33 | 202040.272 | 599972.390 | 48 | 201824.442 | 600771.060 |
| 4 | 201975.242 | 601288.485 | 19 | 202071.661 | 600451.372 | 34 | 202015.289 | 599956.552 | 49 | 201816.673 | 600766.136 |
| 5 | 201973.395 | 601210.906 | 20 | 202076.159 | 600410.854 | 35 | 202007.845 | 599957.700 | 50 | 201805.070 | 600784.442 |
| 6 | 201905.578 | 601095.342 | 21 | 202049.958 | 600391.278 | 36 | 201921.109 | 600060.679 | 51 | 201809.763 | 600787.416 |
| 7 | 201933.179 | 600941.844 | 22 | 202078.868 | 600348.753 | 37 | 201970.475 | 600109.113 | 52 | 201754.322 | 600834.241 |
| 8 | 201933.710 | 600899.954 | 23 | 202079.648 | 600227.051 | 38 | 202015.999 | 600129.790 | 53 | 201782.612 | 600929.403 |
| 9 | 201945.115 | 600876.196 | 24 | 202143.051 | 600102.949 | 39 | 201997.827 | 600169.801 | 54 | 201753.563 | 600979.595 |
| 10 | 201911.764 | 600823.970 | 25 | 202169.161 | 600084.430 | 40 | 201967.824 | 600297.664 | 55 | 201792.957 | 601086.630 |
| 11 | 201941.189 | 600771.829 | 26 | 202177.541 | 600057.945 | 41 | 201923.662 | 600362.162 | 56 | 201826.236 | 601134.359 |
| 12 | 201935.529 | 600729.837 | 27 | 202172.578 | 600028.259 | 42 | 201878.742 | 600363.141 | 57 | 201826.328 | 601207.189 |
| 13 | 201946.159 | 600679.304 | 28 | 202191.925 | 599986.761 | 43 | 201864.066 | 600411.129 | 58 | 201865.772 | 601263.558 |
| 14 | 201978.366 | 600626.377 | 29 | 202106.866 | 599939.035 | 44 | 201906.196 | 600430.267 | 59 | 201871.242 | 601304.011 |
| 15 | 201991.104 | 600556.000 | 30 | 202100.480 | 599950.840 | 45 | 201872.642 | 600531.774 | 60 | 201871.945 | 601370.137 |

SUPPLEMENTARY DRAWINGS

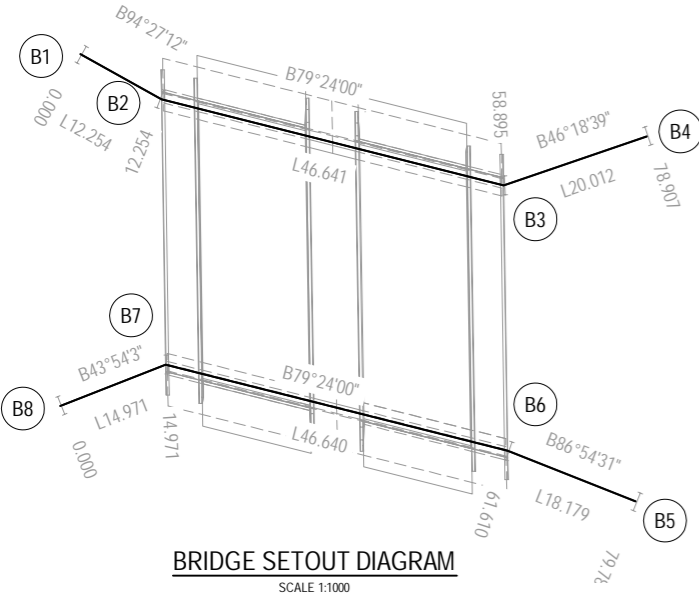
- A. ACT GOVERNMENT DESIGN STANDARDS FOR URBAN INFRASTRUCTURE
 - DS1 STORMWATER
 - SUMP INLETS ON KERBS AND GUTTERS
 - TYPE R AND QS SUMPS
 - PLANTATION AND GRATED SUMPS
 - 1050 ND MANHOLES
 - SPECIAL CHAMBERED MANHOLES
 - STRUCTURES - MISCELLANEOUS DETAILS
 - PIPE CONNECTIONS TO STRUCTURES
 - PIPE CULVERTS 300 - 675 DIA - ENDWALLS
 - PIPE CULVERTS 750 - 1200 DIA - HEADWALLS
 - DS3 ROAD DESIGN
 - KERB AND GUTTER STANDARD DETAILS SHEET 1
 - KERB AND GUTTER STANDARD DETAILS SHEET 1
 - DS4 ROAD VERGES
 - SERVICE MODULES SHEET 1 OF 2
 - SERVICE MODULES SHEET 2 OF 2
 - DS6 PAVEMENT DESIGN
 - SUBSOIL DRAINAGE STANDARD DETAILS SHEET 1
 - SUBSOIL DRAINAGE STANDARD DETAILS SHEET 2
 - DS7 BRIDGES AND ASSOCIATED STRUCTURES
 - GRAVITY RETAINING WALLS - STONE AND CLAY BRICK
 - RETAINING WALLS GENERAL NOTES
 - BRIDGE IDENTIFICATION PLATE
 - DS11 FENCES, GUARDRAILS AND BARRIERS
 - PATH STANDARD DETAILS
- B. N.S.W. ROADS TRAFFIC AUTHORITY RTA MODEL DRAWING
 - CONCRETE HEADWALLS SINGLE CELL 300MM TO 900MM DIA. WITH ROCK MATTRESS PROTECTION (2 OF 1 BATTER OR STEEPER) MD.R11.A03.A.2
 - CONCRETE HEADWALLS DOUBLE CELL 1050MM TO 1800MM DIA. WITH ROCK MATTRESS PROTECTION (2 OF 1 BATTER OR STEEPER) MD.R11.A07.A
 - DEPRESSED MEDIAN GULLY PITS MD.R11.B30.A1
 - ED4 - TYPE A (RIPRAP) ENERGY DISSIPATOR SHEET 1 MD.R11.D03.A
 - ED4 - TYPE A (RIPRAP) ENERGY DISSIPATOR SHEET 2 MD.R11.D03.A
 - MODIFIED ECCENTRIC LOADER TERMINAL (MELT) GENERAL ARRANGEMENT MD.R132.G01.B
 - W BEAM CONNECTION TO TYPE F BARRIER OR PARAPET ON CONCRETE BRIDGES MD.R132.H01.B
 - TYPE 'F' CONCRETE SAFETY BARRIER TRANSITION TO TYPE 'SF' AND TYPE 'SA' KERB AND GUTTER MD.R132.H03.A.1

- GENERAL NOTES**
1. LEVEL DATUM : AHD
 2. SURVEY GRID : ACT GRID
 3. SURVEY SUPPLIED BY LANDATA SURVEYS
 4. REFER LANDSCAPING DRAWINGS FOR TOPSOIL AND VEGETATION REQUIREMENTS
 5. PUBLIC UTILITY SERVICES MAY EXIST ON OR ADJACENT TO THE SITE OF WORKS. THESE SERVICES MAY NOT BE SITUATED WITHIN REGISTERED EASEMENTS OR WITHIN STANDARD FOOTPATH ALLOCATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO IDENTIFY THE LOCATION OF ALL SERVICES PRIOR TO CONSTRUCTION WORKS AND TO AVOID DISTURBANCE OF THESE SERVICES

PRELIMINARY

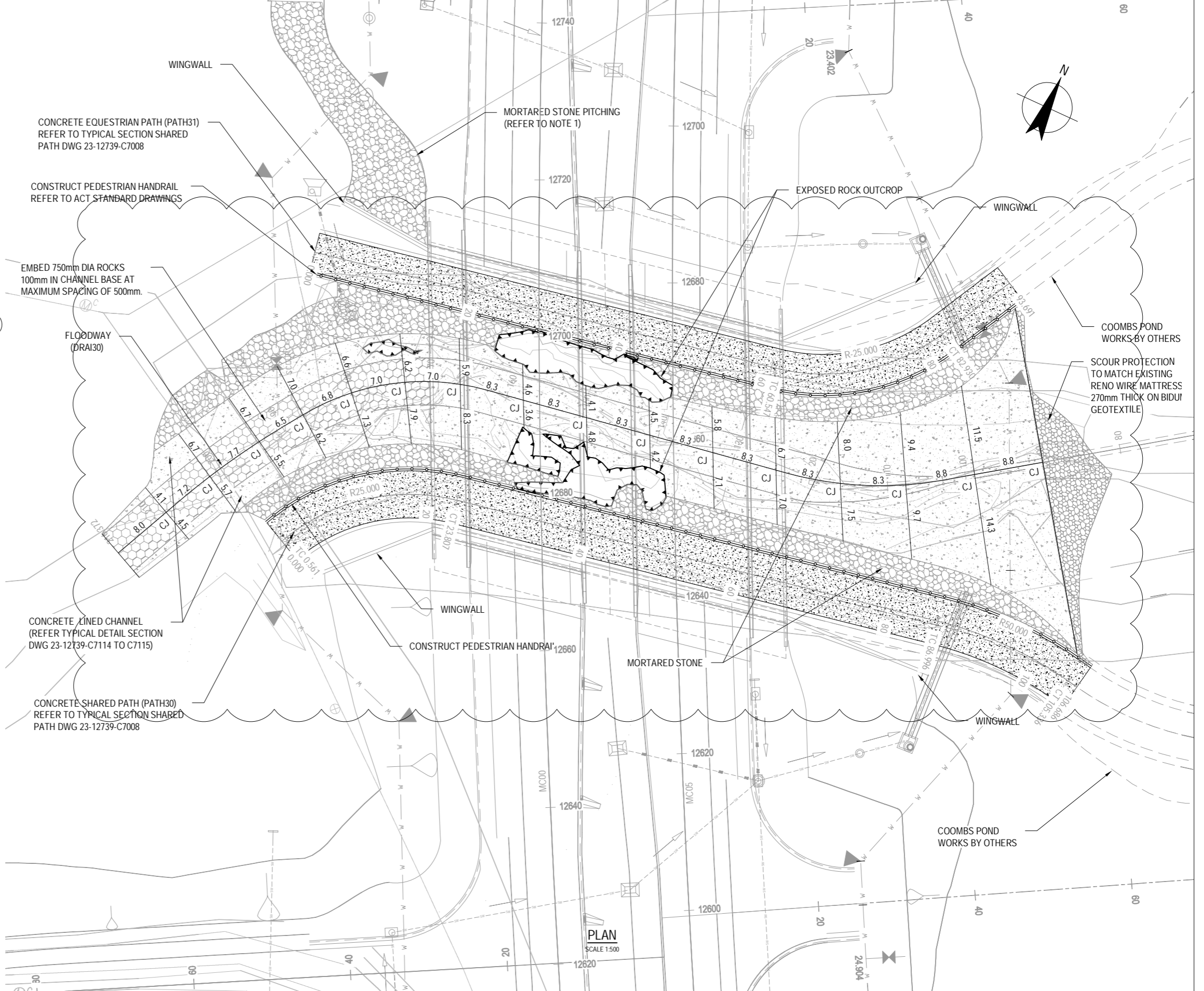
| | | | | | | | | | | | | | | | |
|--|--|---|--|---|--|--|--|--|--|--|--|--|--|---|--|
| <p>C SCOPE OF WORKS UPDATED (DA)</p> <p>B REVISED DRAWINGS</p> <p>A FSP ISSUE</p> | | <p>DP ML* CK* 26.08.11</p> <p>MPQ CK* PT* 18.08.11</p> <p>TM ML* GV* 04.05.11</p> | | <p>0 50 100 150m</p> <p>SCALE 1:5000 AT ORIGINAL SIZE</p> | | | | <p>CLIENTS PEOPLE PERFORMANCE</p> <p>Level 7, 16 Marcus Clarke Street Canberra ACT 2601 Australia GPO Box 1877 Canberra ACT 2601 T 61 2 6113 3200 F 61 2 6113 3299 E cbrmail@ghd.com W www.ghd.com</p> | | <p>DO NOT SCALE</p> <p>Conditions of Use. This document may only be used by GHD's client (and any other person who GHD has agreed can use this document) for the purpose for which it was prepared and must not be used by any other person or for any other purpose.</p> | | <p>Drawn T.MUSE</p> <p>Designer G.DOUGHERTY</p> <p>Drafting Check</p> <p>Design Check</p> <p>Approved (Project Director)</p> <p>Date</p> <p>Scale 1:5000</p> | | <p>Client PROCUREMENT SOLUTIONS</p> <p>Project MOLONGLO INFRASTRUCTURE - STAGE 1D</p> <p>Title SCOPE OF WORKS</p> <p>Original Size A3</p> <p>Drawing No: 23-12739-C7003</p> <p>Rev: C</p> | |
|--|--|---|--|---|--|--|--|--|--|--|--|--|--|---|--|

| SETOUT POINTS | | | |
|---------------|----------|------------|------------|
| POINT | CHAINAGE | EASTING | NORTHING |
| B1 | 0.000 | 202061.319 | 600071.014 |
| B2 | 12.254 | 202073.537 | 600070.063 |
| B3 | 58.895 | 202119.382 | 600078.638 |
| B4 | 78.907 | 202133.853 | 600092.462 |
| B5 | 79.789 | 202152.697 | 600048.007 |
| B6 | 61.610 | 202134.545 | 600047.026 |
| B7 | 14.971 | 202088.701 | 600038.445 |
| B8 | 0.000 | 202078.321 | 600027.658 |

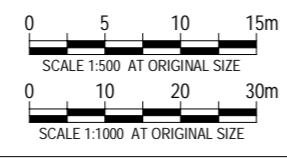


- NOTES:**
- MOTARED STONE PITCHING TO BE 100mm THICK ON 50mm MOTAR BED. STONE TO BE 50mm EMBEDDED IN THE MOTAR BED. PROVIDE BIDUM U24 GEOTEXTILE BELOW ALL PITCHING. REFER ACT SPECIFICATION.
 - BRIDGE SETOUT IS TO FACE OF ABUTMENT AT START OF WINGWALL

- LEGEND:**
- MORTARED STONE (REFER NOTE 1)
 - CONCRETE MULTI USE PATH
 - EMBEDMENT AS PER SPECIFICATION
 - SCOUR PROTECTION
 - CONCRETE LINE CHANNEL
 - ROCK OUT CROP
 - CJ CONSTRUCTION JOINT (REFER TO DWG 23-12739-C7114-C7115)
 - PEDESTRIAN HANDRAIL



| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director | Date |
|----|---|---|-------|-------------|------------------|----------|
| C | MORTARED STONE PITCHING ADDITIONAL (DA) | | MPQ | ML* | CK* | 09.09.11 |
| B | REVISED DRAWINGS (DA) | | MPQ | ML* | CK* | 26.08.11 |
| A | FSP | | MPQ | ML* | GV* | 04.05.11 |



GHD CLIENTS | PEOPLE | PERFORMANCE

Level 7, 16 Marcus Clarke Street
Canberra ACT 2601 Australia
GPO Box 1877 Canberra ACT 2601
T 61 2 6113 3200 F 61 2 6113 3299
E cbrmail@ghd.com W www.ghd.com

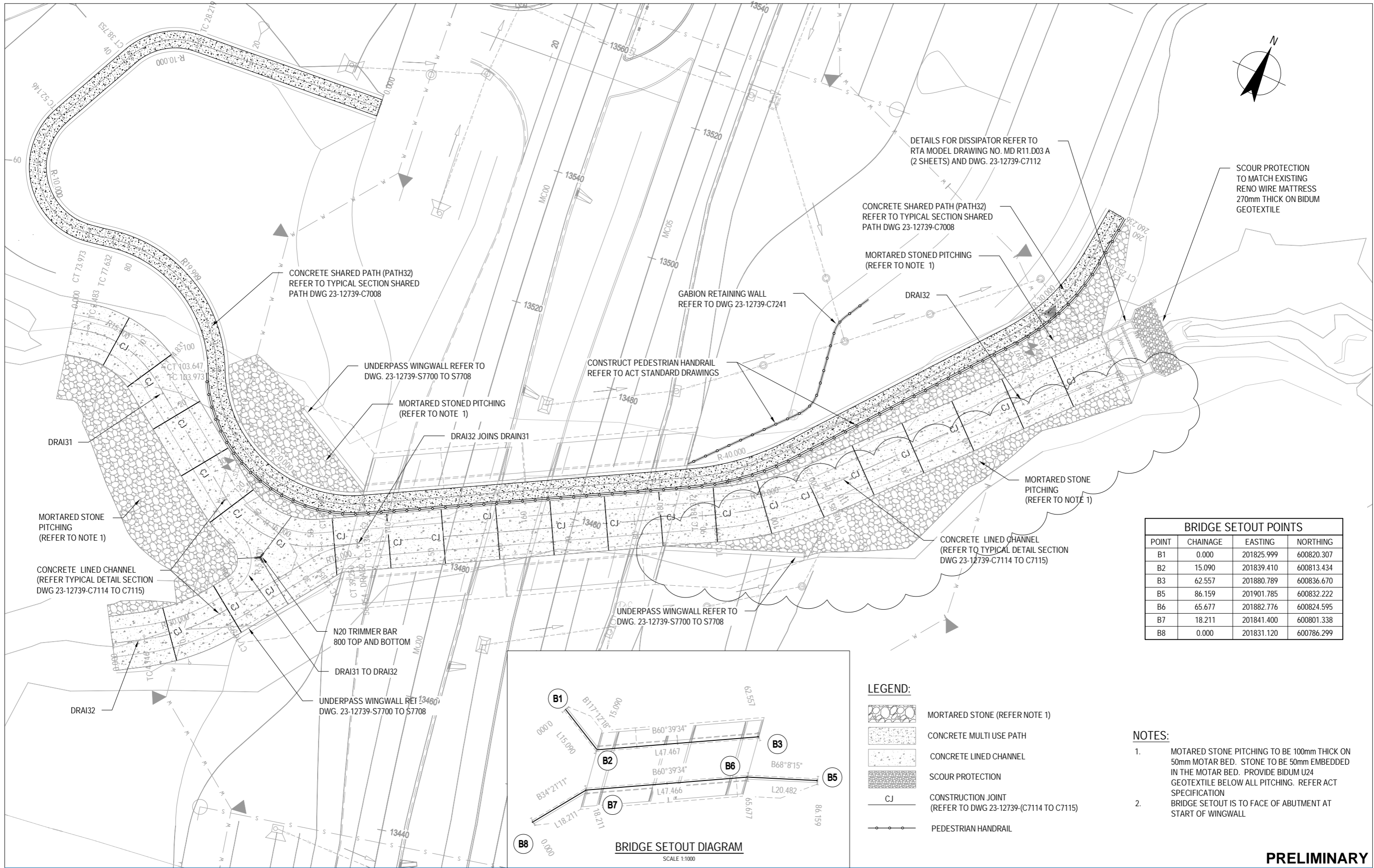
DO NOT SCALE

| | | | |
|-----------------------------|--------------|--|-------------|
| Drawn | M.QUITORIANO | Designer | G.DOUGHERTY |
| Drafting Check | | Design Check | |
| Approved (Project Director) | | Date | |
| Scale | AS SHOWN | This Drawing must not be used for Construction unless signed as Approved | |

PROCUREMENT SOLUTIONS
MOLONGLO INFRASTRUCTURE - STAGE 1D

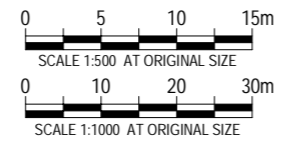
CIVIL WORKS AT BRIDGE AT CH.12660

Original Size **A3** Drawing No: **23-12739-C7129** Rev: **C**



PRELIMINARY

| No | Revision | Note | Drawn | Job Manager | Project Director | Date |
|----|----------|---|-------|-------------|------------------|----------|
| C | | MORTARED STONE PITCHING ADDITIONAL (DA) | MPQ | ML* | CK* | 15.08.11 |
| B | | REVISED DRAWINGS (DA) | MPQ | ML* | CK* | 26.08.11 |
| A | | FSP ISSUE | MPQ | ML* | GV* | 04.05.11 |



DO NOT SCALE

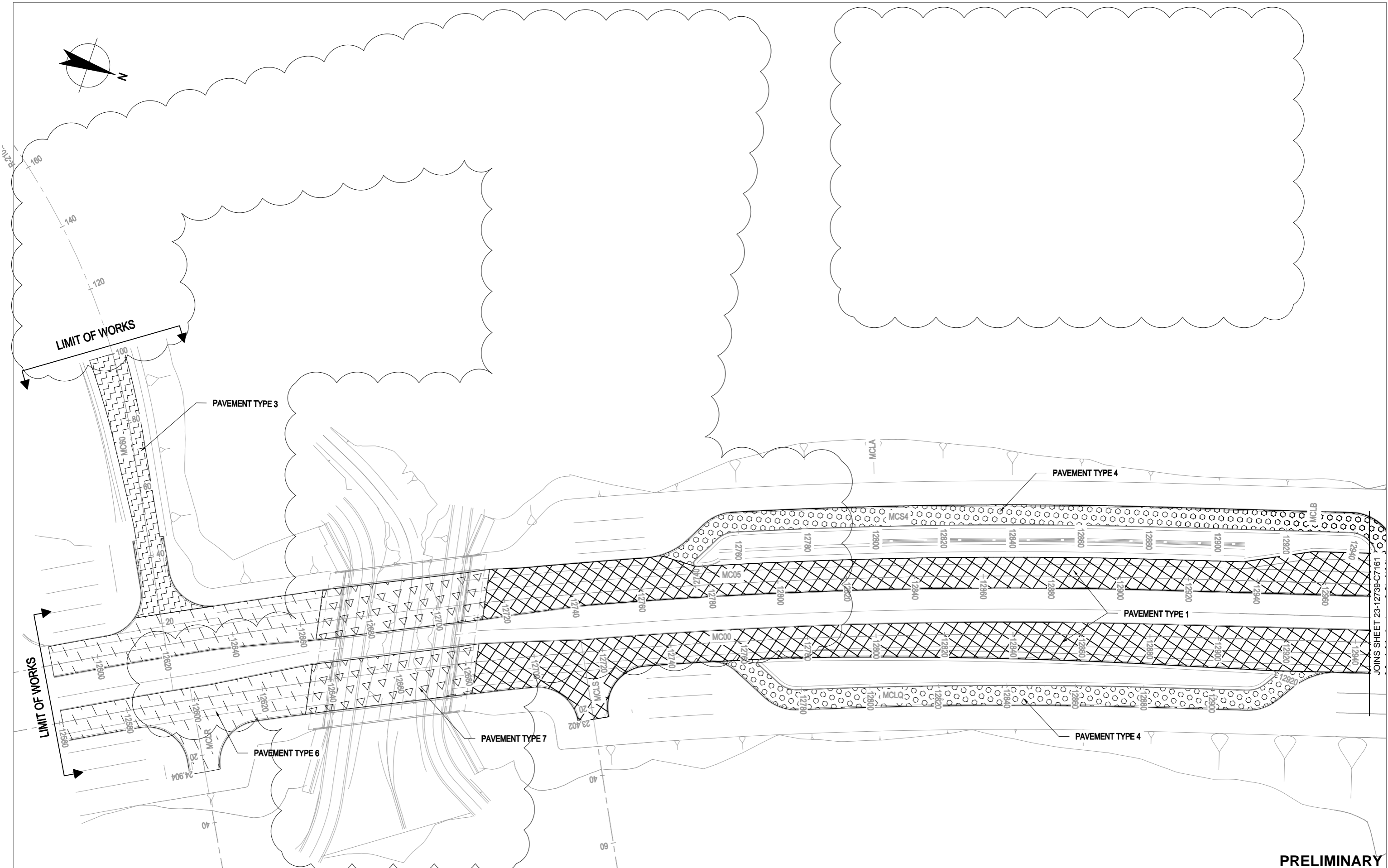
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| Drafting Check | | Design Check | |
| Approved (Project Director) | | Date | |
| Scale | AS SHOWN | This Drawing must not be used for Construction unless signed as Approved | |

PROCUREMENT SOLUTIONS
MOLONGLO INFRASTRUCTURE - STAGE 1D

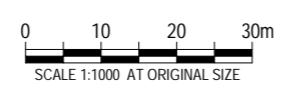
CIVIL WORKS AT BRIDGE AT CH.13460

Original Size **A3** Drawing No: **23-12739-C7130** Rev: **C**



PRELIMINARY

| | | | | | | | |
|-------------------------------------|----------|---|--|-------|-------------|------------------|----------|
| B UPDATED PAVEMENT PLAN (DA) | | | | MPQ | ML* | CK* | 26.08.11 |
| A FSP ISSUE | | | | TM | ML* | GV* | 04.05.11 |
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | | Drawn | Job Manager | Project Director | Date |

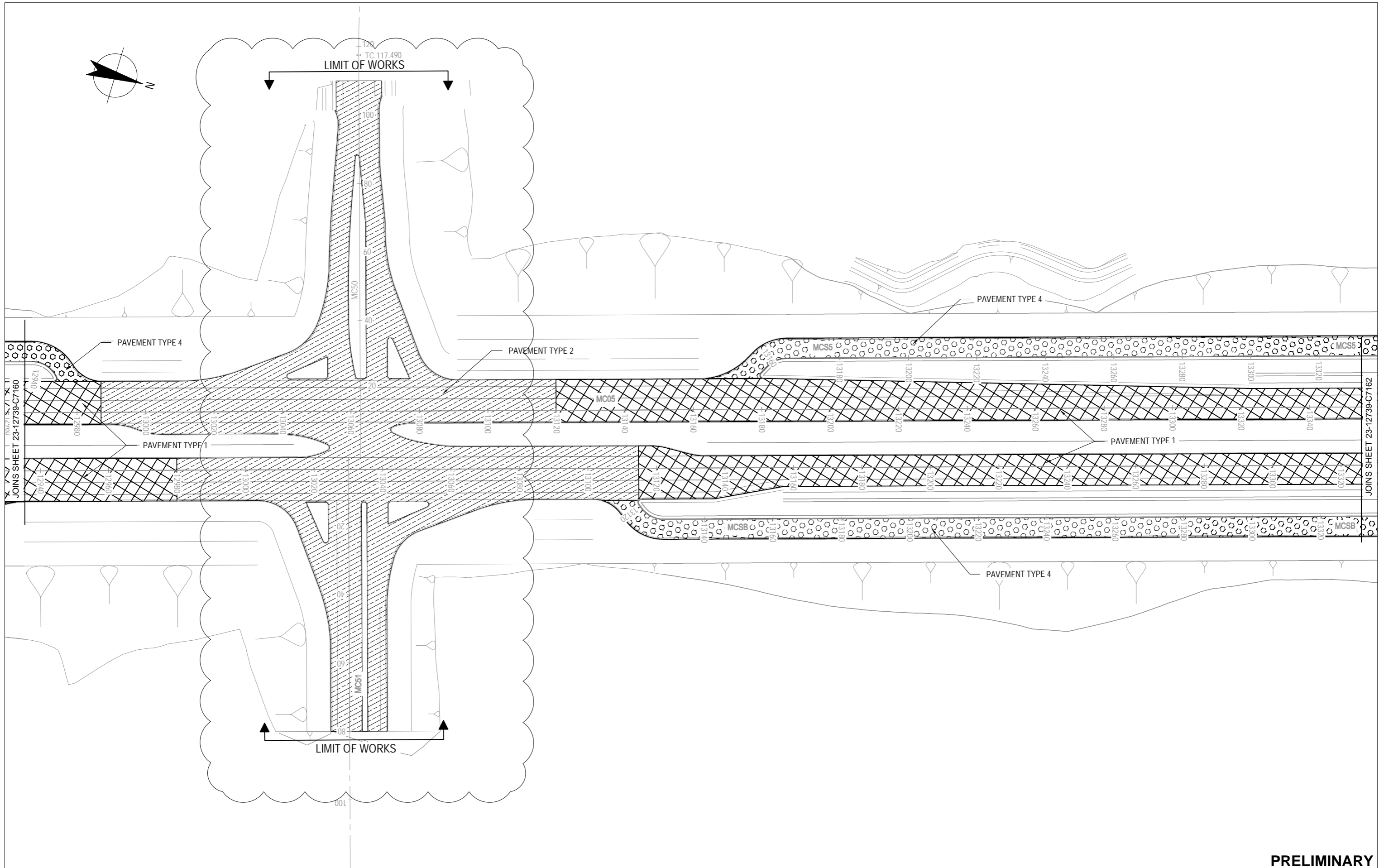


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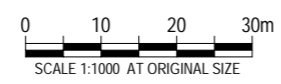
| | | |
|---|-----------------------------|--|
| DO NOT SCALE | Drawn T.MUSE | Designer G.DOUGHERTY |
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| | Approved (Project Director) | Date |
| | Scale 1:1000 | This Drawing must not be used for Construction unless signed as Approved |

| | |
|---------------|---|
| Client | PROCUREMENT SOLUTIONS |
| Project | MOLONGLO INFRASTRUCTURE - STAGE 1D |
| Title | PAVEMENT PLAN - SHEET 1 OF 4 |
| Original Size | A3 |
| Drawing No: | 23-12739-C7160 |
| Rev: | B |



PRELIMINARY

| | | | | | |
|------------------------------|----------|-------|-------------|------------------|----------|
| B UPDATED PAVEMENT PLAN (DA) | | MPQ | ML* | CK* | 26.08.11 |
| A FSP ISSUE | | TM | ML* | GV* | 04.05.11 |
| No | Revision | Drawn | Job Manager | Project Director | Date |
| | | | | | |

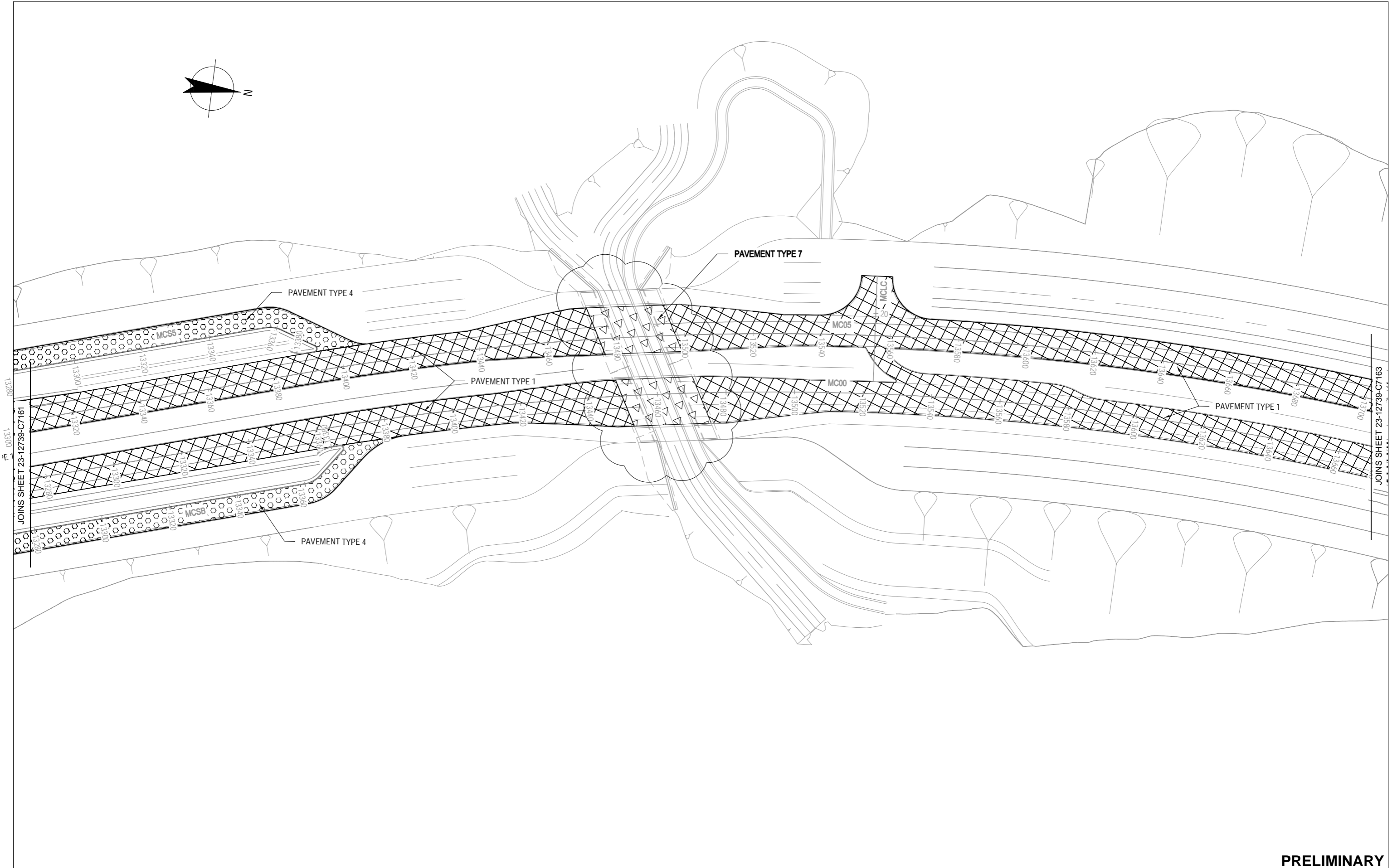
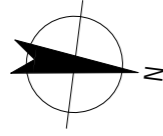


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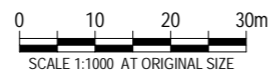
| | | | |
|-----------------------------|--------|--|-------------|
| Drawn | T.MUSE | Designer | G.DOUGHERTY |
| Drafting Check | | Design Check | |
| Approved (Project Director) | | Date | |
| Scale | 1:1000 | This Drawing must not be used for Construction unless signed as Approved | |

| | |
|---------------|---|
| Client | PROCUREMENT SOLUTIONS |
| Project | MOLONGLO INFRASTRUCTURE - STAGE 1D |
| Title | PAVEMENT PLAN - SHEET 2 OF 4 |
| Original Size | A3 |
| Drawing No: | 23-12739-C7161 |
| Rev: | B |



PRELIMINARY

| | | | | | | | |
|-------------------------------------|----------|---|--|-----------|-------------|------------------|-----------------|
| B UPDATED PAVEMENT PLAN (DA) | | | | KH | ML* | CK* | 26.08.11 |
| A FSP ISSUE | | | | TM | ML* | GV* | 04.05.11 |
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | | Drawn | Job Manager | Project Director | Date |

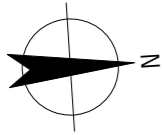


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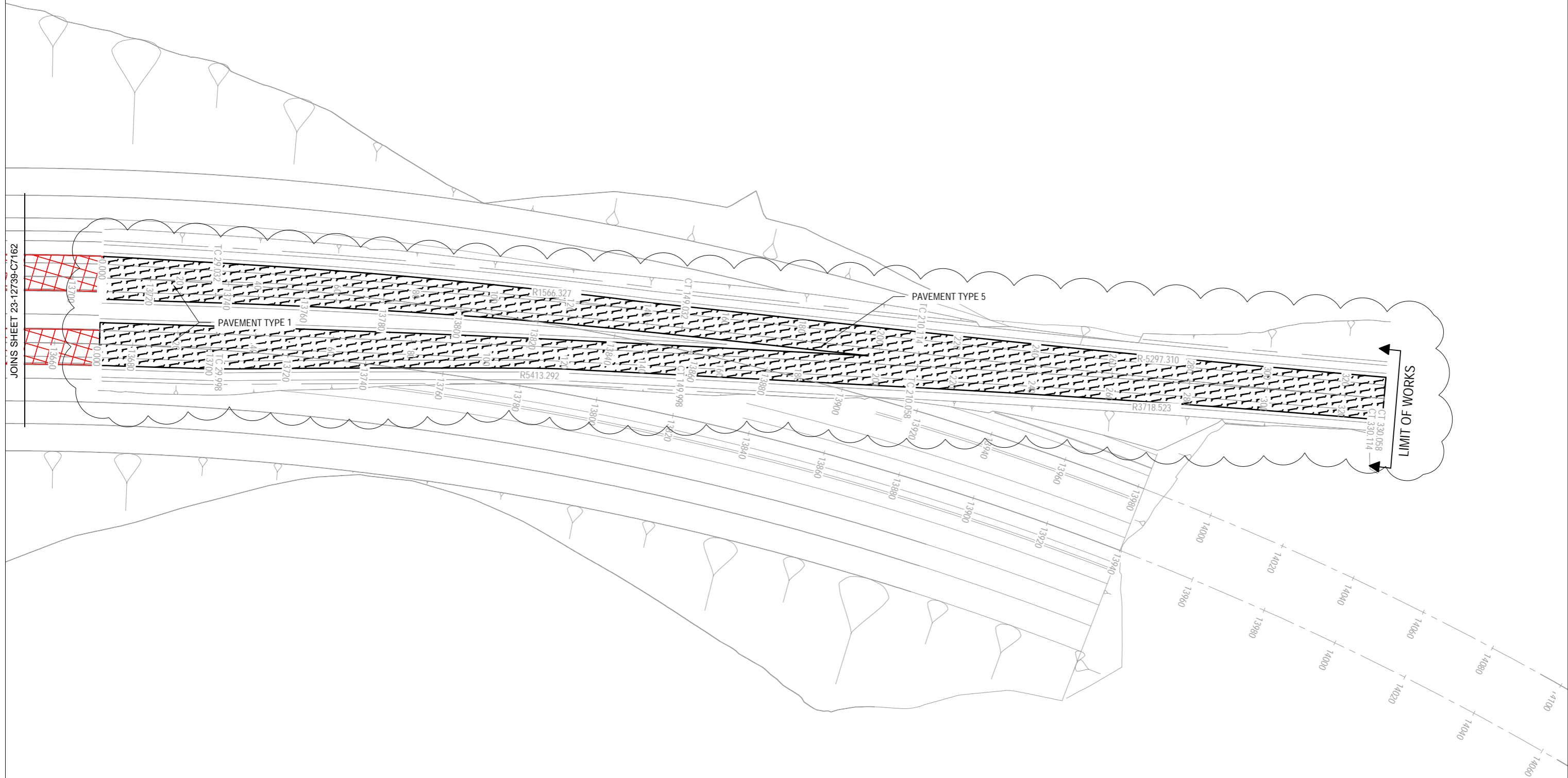
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| | Approved (Project Director) | Date |
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| | |
|---------------|---|
| Client | PROCUREMENT SOLUTIONS |
| Project | MOLONGLO INFRASTRUCTURE - STAGE 1D |
| Title | PAVEMENT PLAN - SHEET 3 OF 4 |
| Original Size | A3 |
| Drawing No: | 23-12739-C7162 |
| Rev: | B |



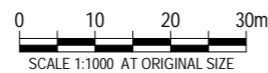
JOINS SHEET 23-12739-C7162



LIMIT OF WORKS

PRELIMINARY

| | | | | | | |
|----|----------------------------|---|-------|-------------|------------------|----------|
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director | Date |
| B | UPDATED PAVEMENT PLAN (DA) | | MPQ | ML* | CK* | 26.08.11 |
| A | FSP ISSUE | | TM | ML* | GV* | 04.05.11 |

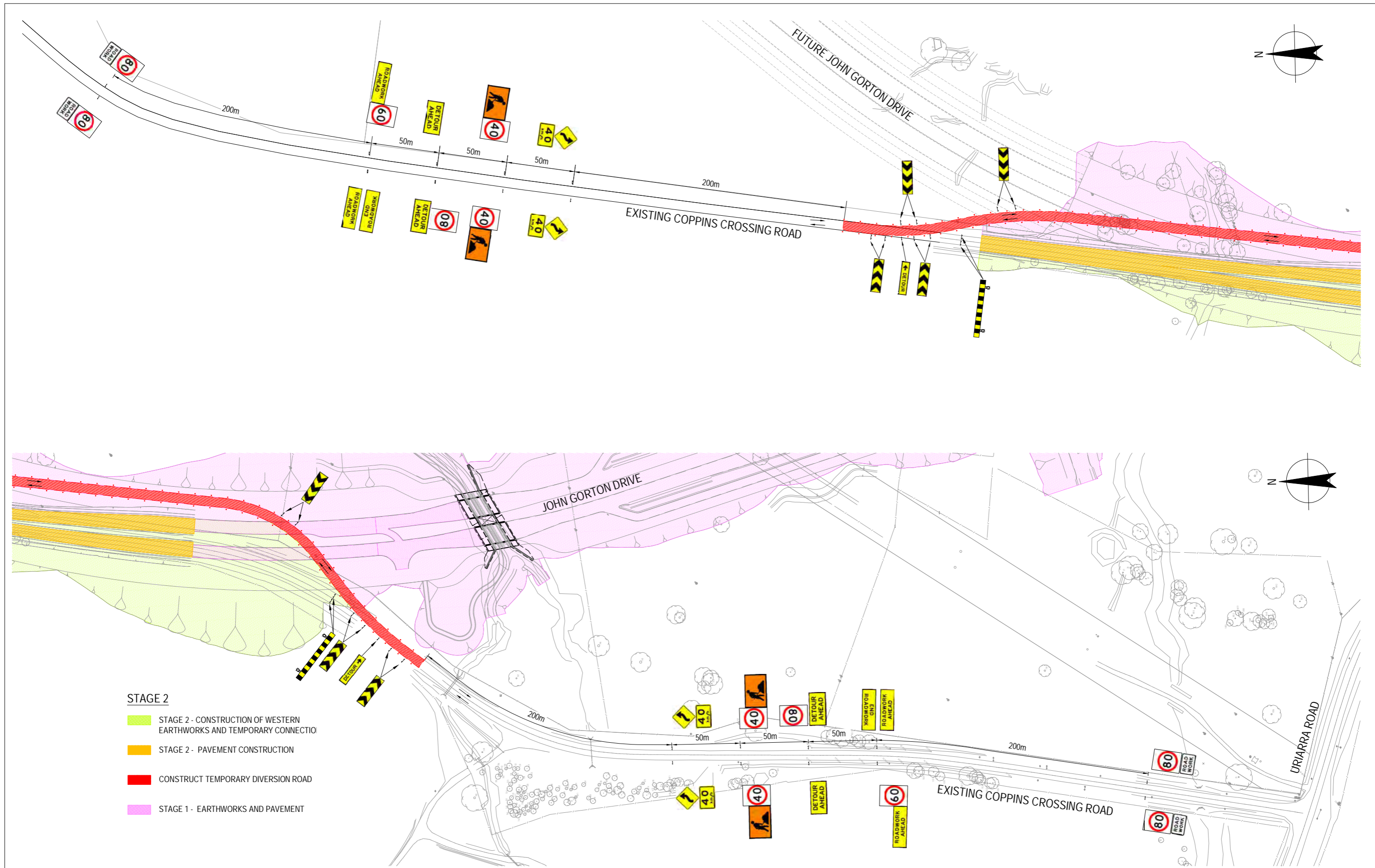


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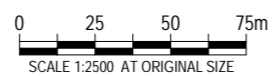
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|---------------|---|
| Client | PROCUREMENT SOLUTIONS |
| Project | MOLONGLO INFRASTRUCTURE - STAGE 1D |
| Title | PAVEMENT PLAN - SHEET 4 OF 4 |
| Original Size | A3 |
| Drawing No: | 23-12739-C7163 |
| Rev: | B |



STAGE 2

- STAGE 2 - CONSTRUCTION OF WESTERN EARTHWORKS AND TEMPORARY CONNECTION
- STAGE 2 - PAVEMENT CONSTRUCTION
- CONSTRUCT TEMPORARY DIVERSION ROAD
- STAGE 1 - EARTHWORKS AND PAVEMENT

| | | | | | | |
|----|----------|---|-------|-------------|------------------|----------|
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director | Date |
| 0 | DA | | DP | ML* | CK* | 15.09.11 |



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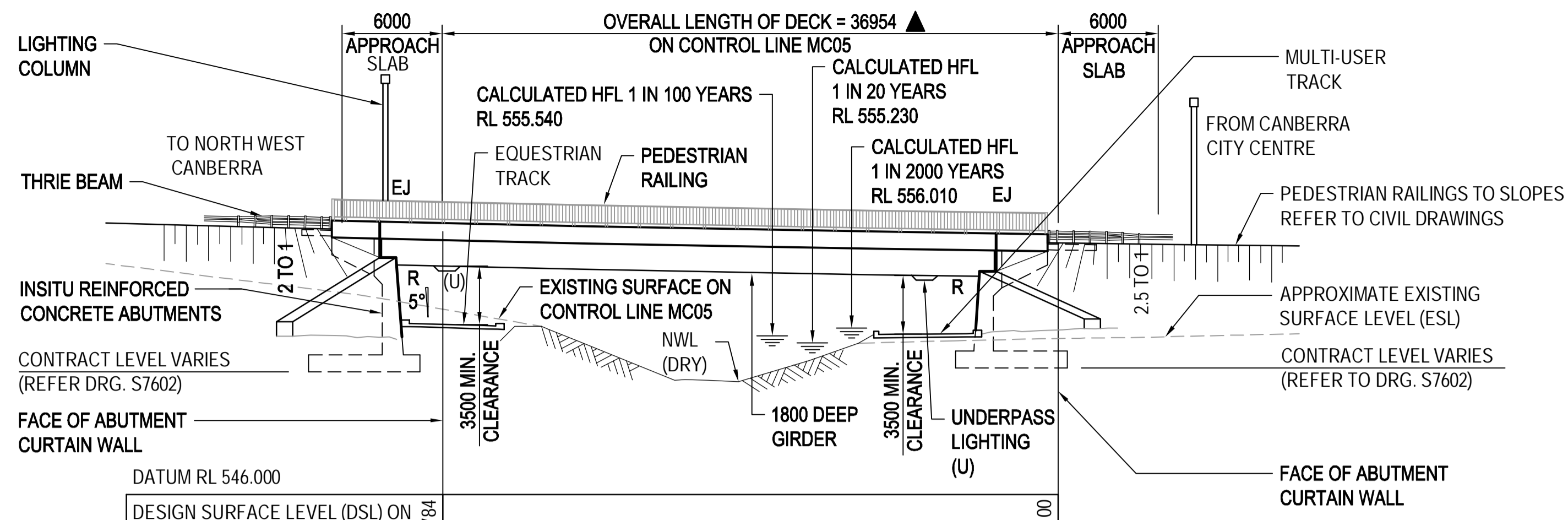
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| Drawn | D.PIGRAM | Designer | G. DOUGHERTY |
| Drafting Check | G. POOKNEE | Design Check | M. LYONS |
| Approved (Project Director) | | | |
| Date | | | |
| Scale | 1 : 2500 | | |

Client **PROCUREMENT SOLUTIONS**
 Project **MOLONGLO INFRASTRUCTURE - STAGE 1D**
 Title **TEMPORARY TRAFFIC MANAGEMENT CONCEPT**

Original Size **A3** Drawing No: **23-12739-C7303** Rev: **0**

This Drawing must not be used for Construction unless signed as Approved

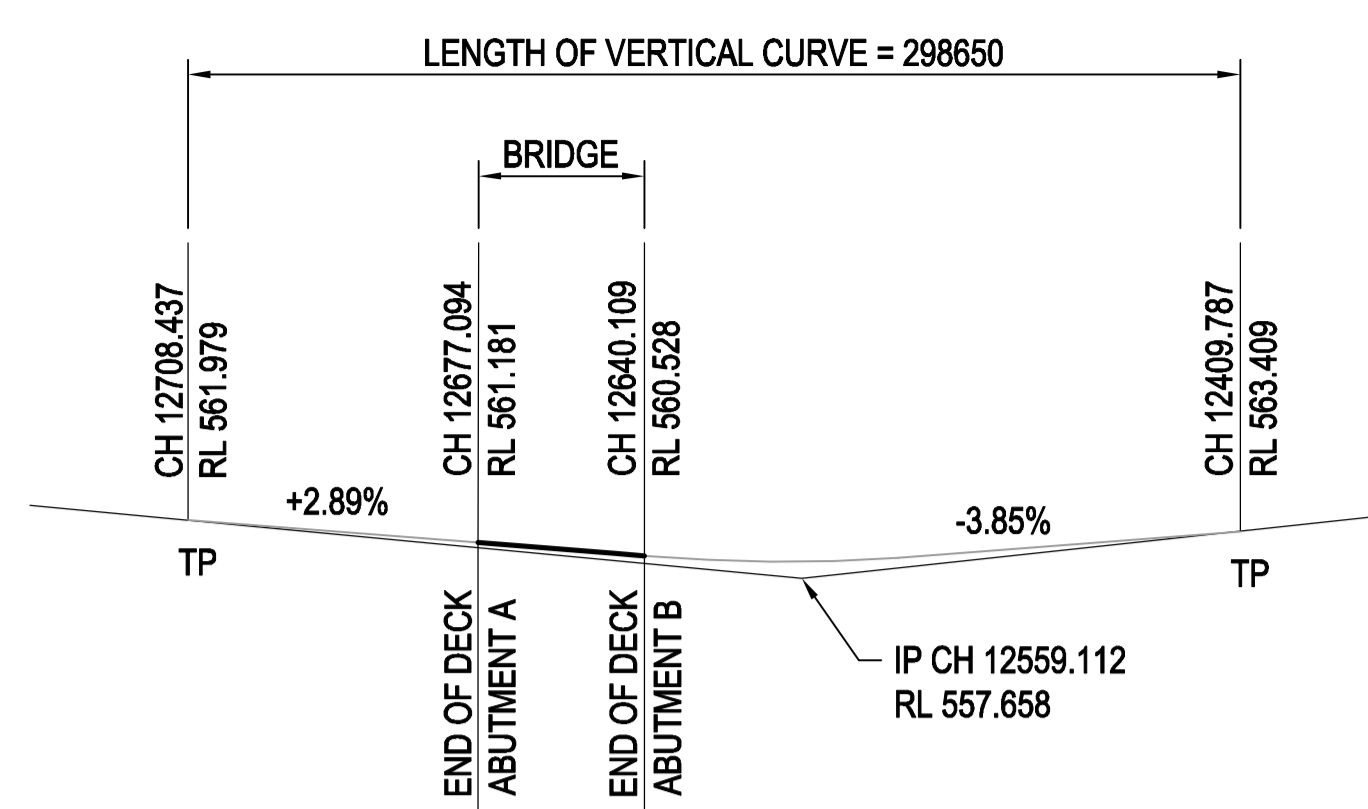


| | | |
|---|------------|------------|
| DATUM RL 546.000 | | |
| DESIGN SURFACE LEVEL (DSL) ON CONTROL LINE MC05 * | RL 561.784 | RL 561.100 |
| EXISTING SURFACE LEVEL ON CONTROL LINE MC05 (ESL) | RL 557.128 | RL 555.369 |
| CHAINAGE ON CONTROL LINE MC05 | 12708.233 | 12671.279 |

* REFER TO DRG. S7602 FOR DESIGN SURFACE LEVEL ▲ DECK LENGTH MEASURED BETWEEN CURTAIN WALL FACES (END OF DECK)

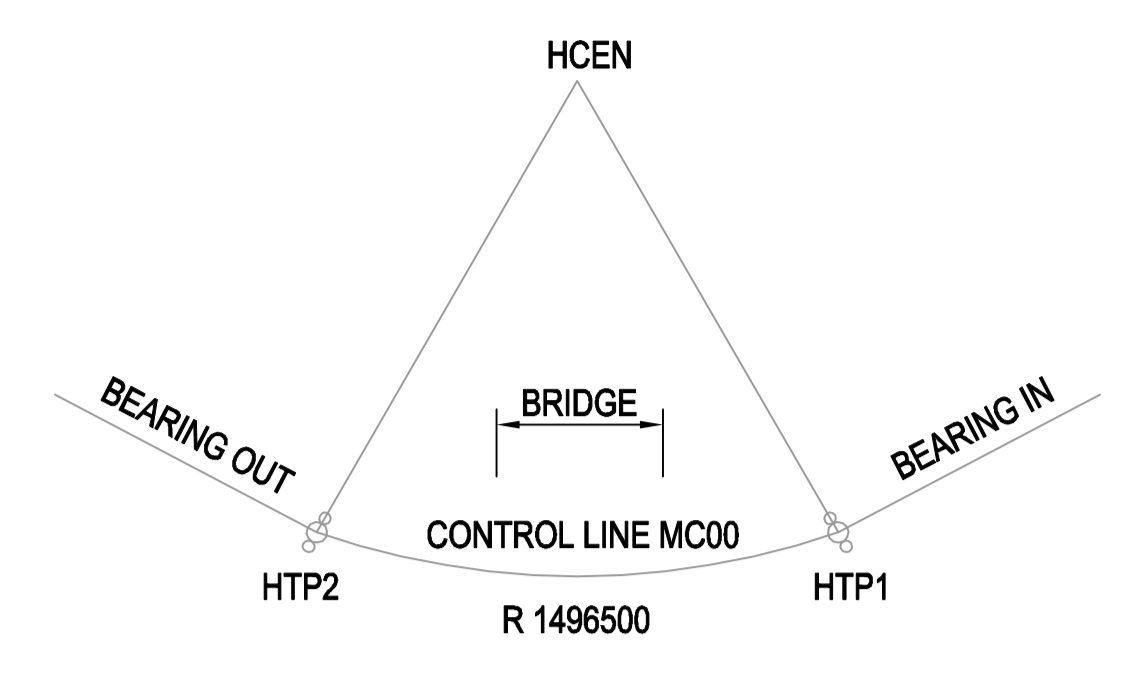
ELEVATION - NORTHBOUND CARRIAGEWAY

SCALE 1:250



VERTICAL ALIGNMENT DIAGRAM ON CONTROL LINE MC00

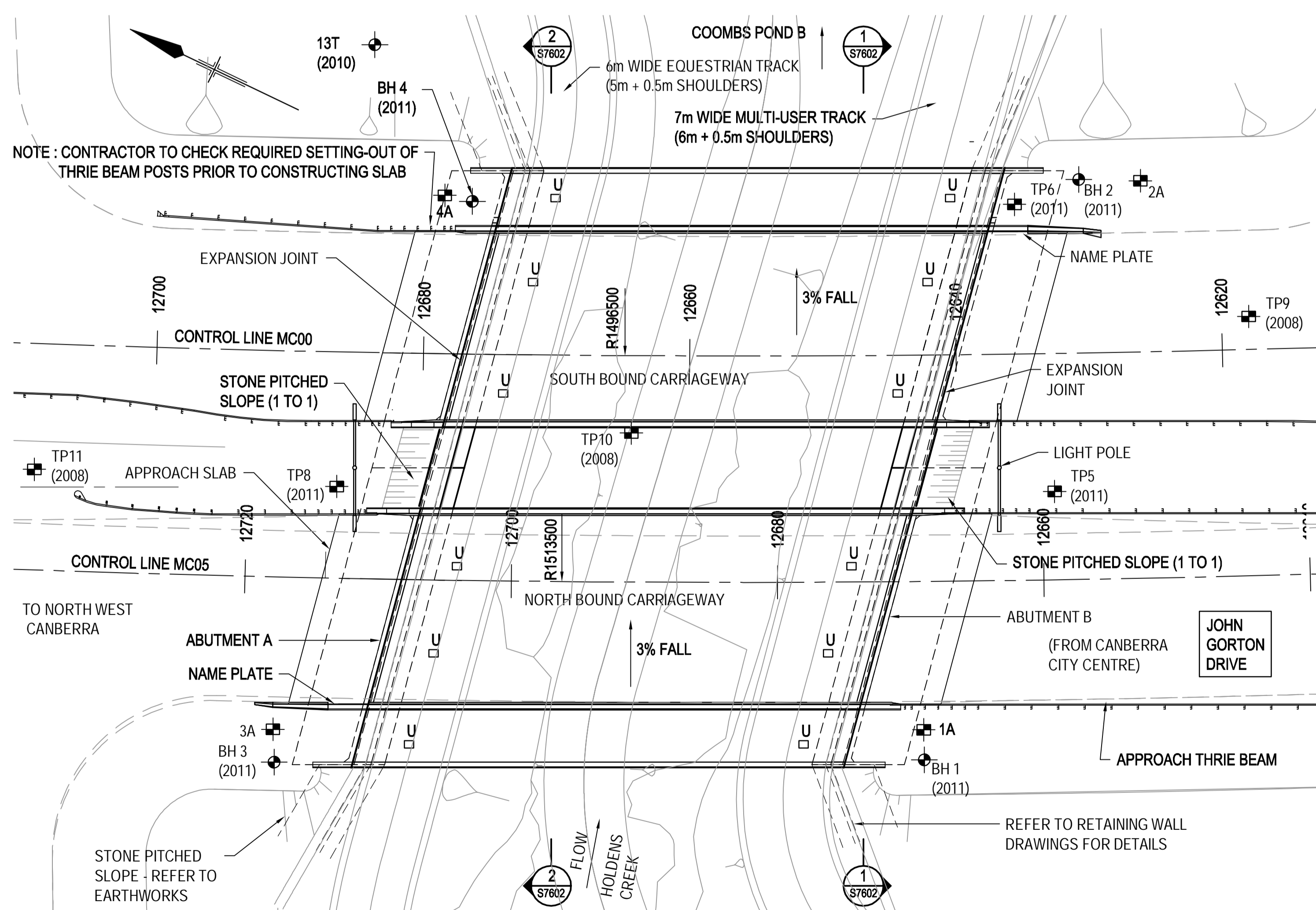
NOT TO SCALE



HORIZONTAL ALIGNMENT DIAGRAM ON CONTROL LINE MC00

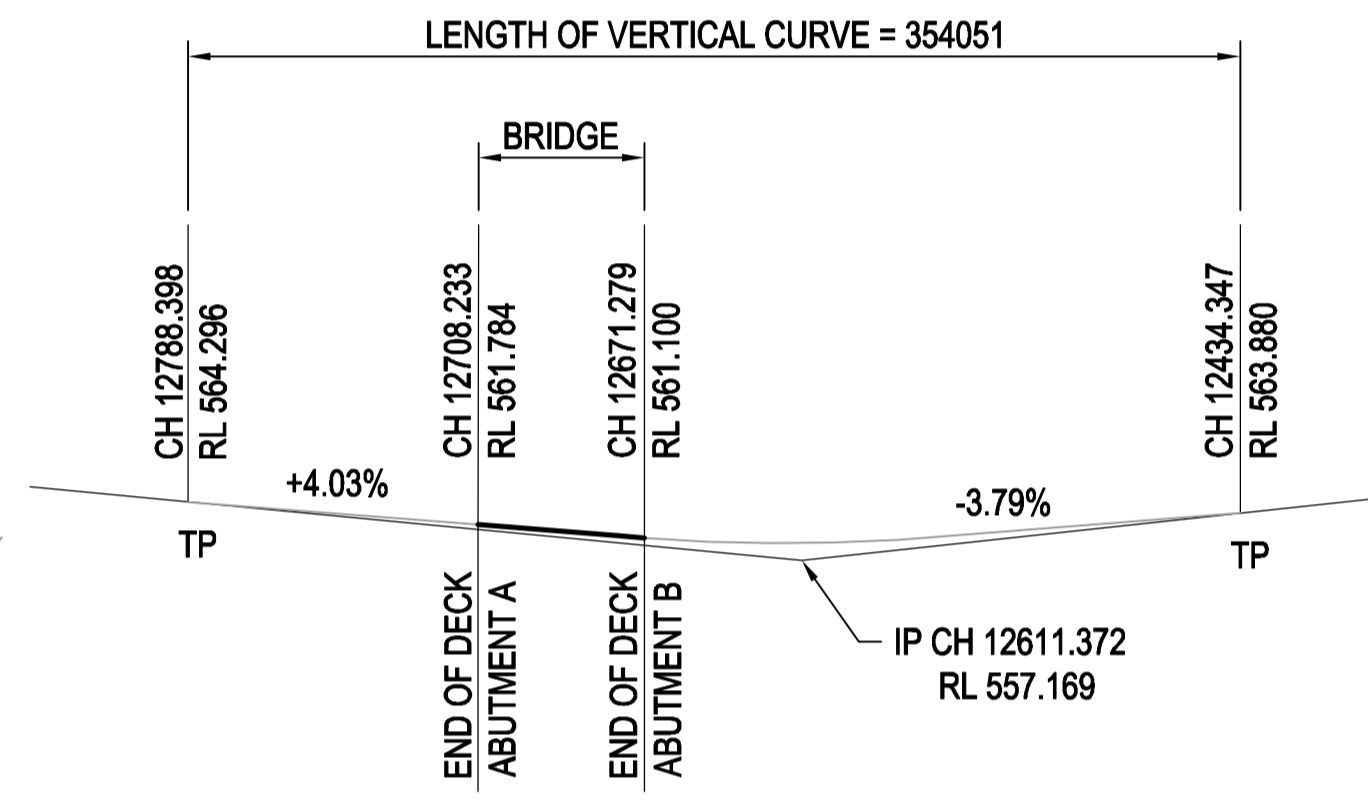
NOT TO SCALE

| POINT | LOCATION | EASTING | NORTHING | BEARING IN | BEARING OUT |
|-------|------------------|------------|------------|---------------|---------------|
| HCEN | CENTRE OF CIRCLE | 203462.951 | 600705.134 | - | - |
| HTP1 | CH 12130.619 | 202418.617 | 599633.277 | 314°15'17.51" | - |
| HTP2 | CH 12881.629 | 202031.777 | 600267.810 | - | 343°00'30.27" |



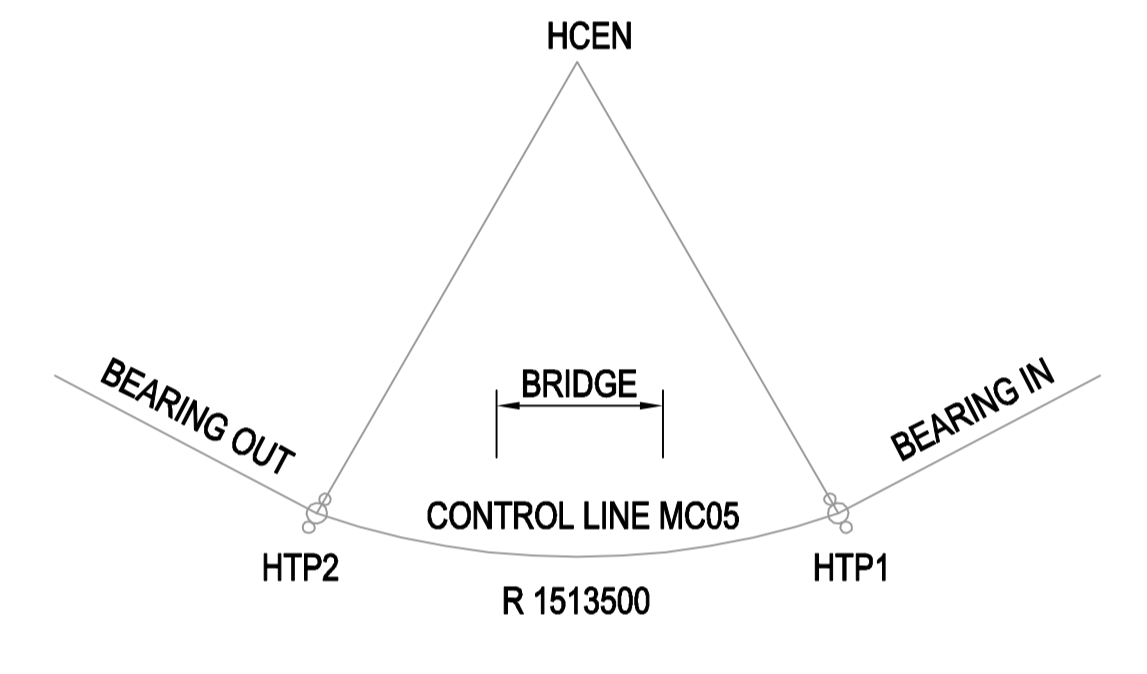
PLAN

SCALE 1:250



VERTICAL ALIGNMENT DIAGRAM ON CONTROL LINE MC05

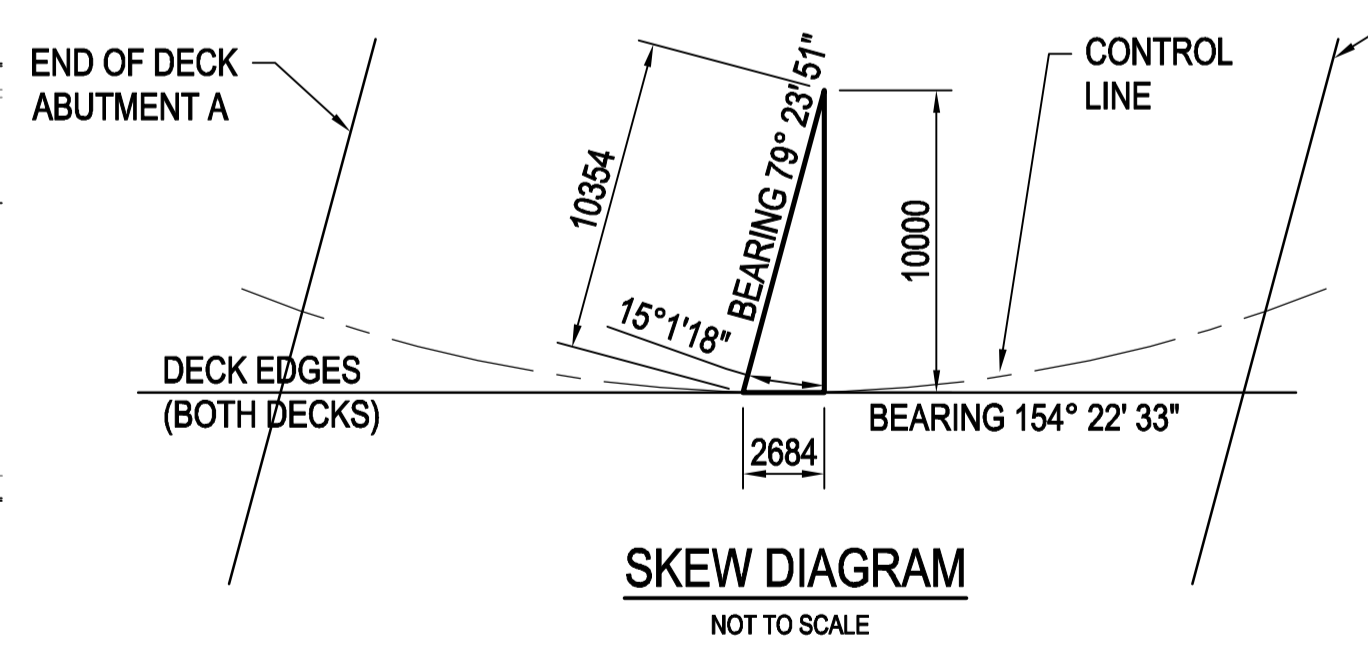
NOT TO SCALE



HORIZONTAL ALIGNMENT DIAGRAM ON CONTROL LINE MC05

NOT TO SCALE

| POINT | LOCATION | EASTING | NORTHING | BEARING IN | BEARING OUT |
|-------|------------------|------------|------------|---------------|---------------|
| HCEN | CENTRE OF CIRCLE | 203462.951 | 600705.134 | - | - |
| HTP1 | CH 12151.246 | 202406.753 | 599621.101 | 314°15'17.51" | - |
| HTP2 | CH 12910.788 | 202015.519 | 600262.843 | - | 343°00'30.33" |



SKEW DIAGRAM

NOT TO SCALE

GENERAL NOTES:

SCALES AS SHOWN.
 DIMENSIONS ARE IN MILLIMETRES.
 CHAINAGES AND REDUCED LEVELS ARE IN METRES.
 REDUCED LEVELS ARE RELATED TO THE AUSTRALIAN HEIGHT DATUM.
 COORDINATES ARE 'ACTSG'
 HTP DENOTES HORIZONTAL TANGENT POINT.
 TP DENOTES TANGENT POINT.
 CL DENOTES CONTRACT LEVEL.
 EJ DENOTES EXPANSION JOINT.
 R DENOTES RESTRAINED BEARING (TRANSVERSE RESTRAINT).
 NWL DENOTES NORMAL WATER LEVEL.
 U DENOTES UNDERPASS LIGHTING
 CONCRETE BRIDGE DECK WATERPROOFING MEMBRANE SHALL CONFORM TO RTA SPECIFICATION B344 OR BPC2003/02.
 WATERPROOFING MEMBRANE SHALL BE OVERLAYED WITH 75mm THICK ASPHALT.
 FOR DETAILS OF PROPOSED FINISHES TO WING WALLS AND ABUTMENTS REFER TO 'WELLSPRING ART & DESIGN' DRAWINGS.
 ● DENOTES BOREHOLE LOCATION AND YEAR.
 ⊕ DENOTES TEST PIT LOCATION AND YEAR.
 REFER SHEET S7603 FOR REFERENCE REPORTS.

| No | Revision | Note | Drawn | Job Manager | Project Director | Date |
|----|----------|--|-------|-------------|------------------|----------|
| G | | ISSUE FOR 100% REVIEW (DESIGN VARIATION) | DGY | DE* | JY* | 31.08.11 |
| F | | DA SUBMISSION | DGY | | | |
| E | | ISSUED FOR 100% REVIEW | GB | DE* | BS* | 04.08.11 |
| D | | ISSUED FOR 85% REVIEW | PT | DE* | BS* | 05.05.11 |
| C | | ISSUED FOR 85% REVIEW | JE | DE* | BS* | 21.04.11 |



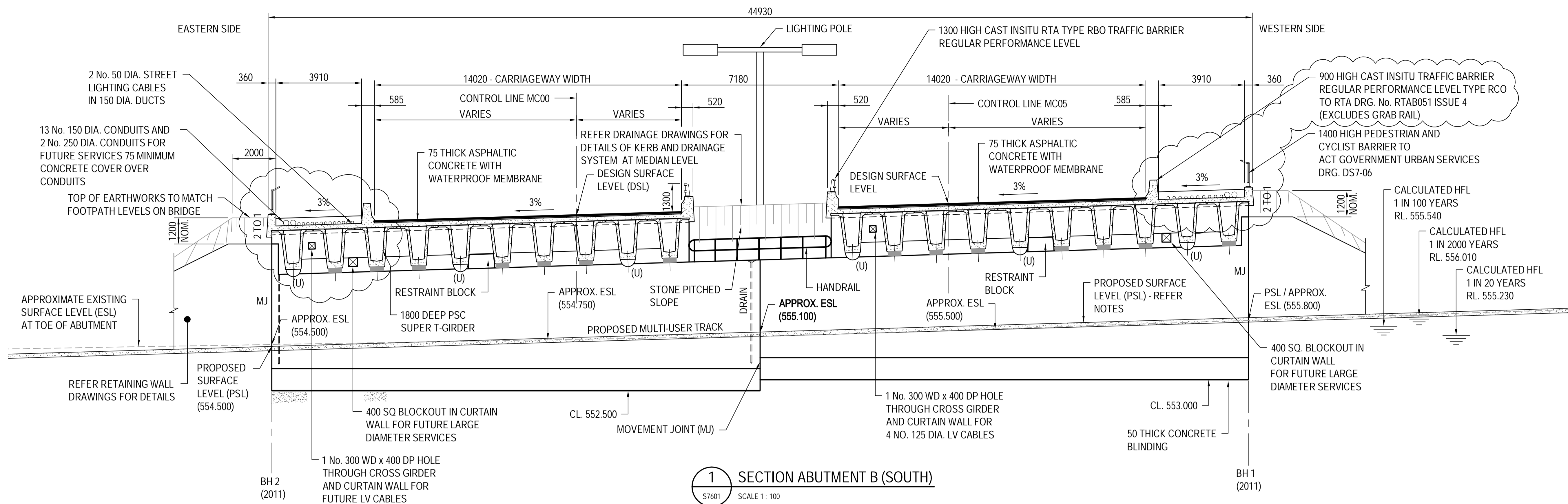
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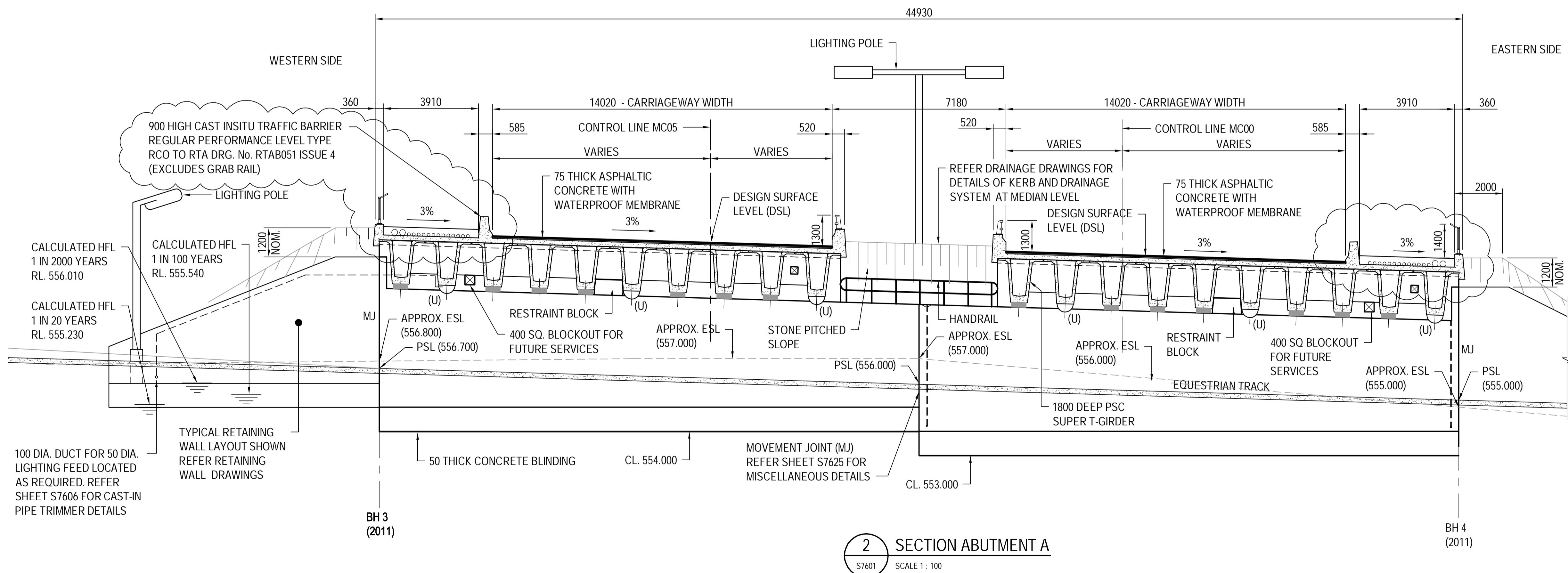
| DO NOT SCALE | |
|-----------------------------|--|
| Drawn J. EVANS | Designer S. XU |
| Drafting Check | Design Check |
| Approved (Project Director) | Date |
| Scale AS SHOWN | This Drawing must not be used for Construction unless signed as Approved |

Client **PROCUREMENT SOLUTIONS**
 Project **MOLONGLO INFRASTRUCTURE STAGE 1D**
 Title **HOLDENS CREEK BRIDGE No. 4152**
GENERAL ARRANGEMENT - SHEET A

Original Size **A1** Drawing No: **23-12739-S7601** Rev: **G**



1 SECTION ABUTMENT B (SOUTH)
S7601 SCALE 1:100



2 SECTION ABUTMENT A
S7601 SCALE 1:100

NOTE:
FOR GENERAL NOTES REFER TO S7601.
THE 75 THICK ASPHALT COMPRISES NOMINAL 45mm AC14, 30mm AC10 AND SAMI SEAL WATERPROOF LAYER WITH QDP OR EQUIVALENT PRIMER ON BRIDGE DECK.
THE VISIBLE SURFACES OF ALL RETAINING WALLS AND ABUTMENTS MUST BE TREATED WITH NON-SACRIFICIAL ANTI-GRAFFITI COATINGS WHICH:
a) MUST MATCH THE ADJACENT SURFACES AND THE COLOURS AND THE APPLICATION OF WHICH DOES NOT ALTER THE APPEARANCE OF THE STRUCTURE.
b) MUST BE TO A MINIMUM HEIGHT OF 3m ABOVE PROPOSED SURFACE LEVELS TO PATHS.
c) TO PROTECT SURFACES PRIOR TO APPLYING THE PERMANENT ANTI-GRAFFITI COATING, A SACRIFICIAL COATING MAY BE APPLIED, PROVIDED THAT IT IN NO WAY INTERFERES WITH THE ADHESION OF THE PERMANENT COATING. CONTRACT LEVEL FOOTINGS SHALL NOT BE RAISED ABOVE A REDUCED LEVEL EQUIVALENT TO 2000mm BELOW PROPOSED SURFACE LEVEL (PSL) OF EQUESTRIAN / MULTI-USER TRACK. PSL SHALL BE 3500mm NOMINALLY, BELOW GIRDER SOFFITS AT ABUTMENTS.
CONTRACT LEVEL OF ABUTMENT FOOTINGS MAY BE LOWERED 400mm MAX. WITHOUT CHANGING THE CONCRETE SECTION.
A MINIMUM OF 1500mm OF COMPACTED BACKFILL / CONCRETE MUST BE PLACED IN FRONT OF THE ABUTMENTS AND SUCH AS TO COMPLETELY FILL ANY VOIDS BETWEEN THE FOUNDATION AND TEMPORARY EXCAVATIONS, PRIOR TO COMMENCING BACKFILLING OPERATIONS. IT HAS BEEN ASSUMED THAT THE BACKFILL SHALL BE A FREE DRAINING GRANULAR BACKFILL, WITH AN EFFECTIVE ANGLE OF INTERNAL FRICTION OF 35-DEGREES. REFER TO ENGINEER FOR APPROVAL OF BACKFILL MATERIAL.
CONTRACT LEVELS FOR FOOTINGS. ASSUME FOUNDING WITHIN MEDIUM STRENGTH DACITE ROCK WITH AN ALLOWABLE BEARING CAPACITY OF 3500kPa.
THE CALCULATED MAXIMUM ULTIMATE BEARING PRESSURE IS 675kPa. A DIFFERENCE IN LEVEL OF UP TO 2000mm BETWEEN CONTRACT LEVEL AND SUITABLE FORMATION MAY BE INFILLED WITH MASS CONCRETE 25MPa.
'U' - DENOTES UNDERPASS LIGHTING.
'CL' - DENOTES CONTRACT LEVEL

| | | | | | | |
|----|--|---|-------|-------------|------------------|------|
| F | ISSUE FOR 100% REVIEW (DESIGN VARIATION) | DGY | DE* | JY* | 31.08.11 | |
| E | DA SUBMISSION | DGY | | | | |
| D | ISSUED FOR 100% REVIEW | GB | DE* | BS* | 04.08.11 | |
| C | ISSUED FOR 85% REVIEW | JE | DE* | BS* | 21.04.11 | |
| B | ISSUED FOR 15% REVIEW | JE | DE* | BS* | 09.03.11 | |
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director | Date |



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Drawn J. EVANS
Designer S. XU
Drafting Check
Design Check
Approved (Project Director)
Date
Scale AS SHOWN
This Drawing must not be used for Construction unless signed as Approved

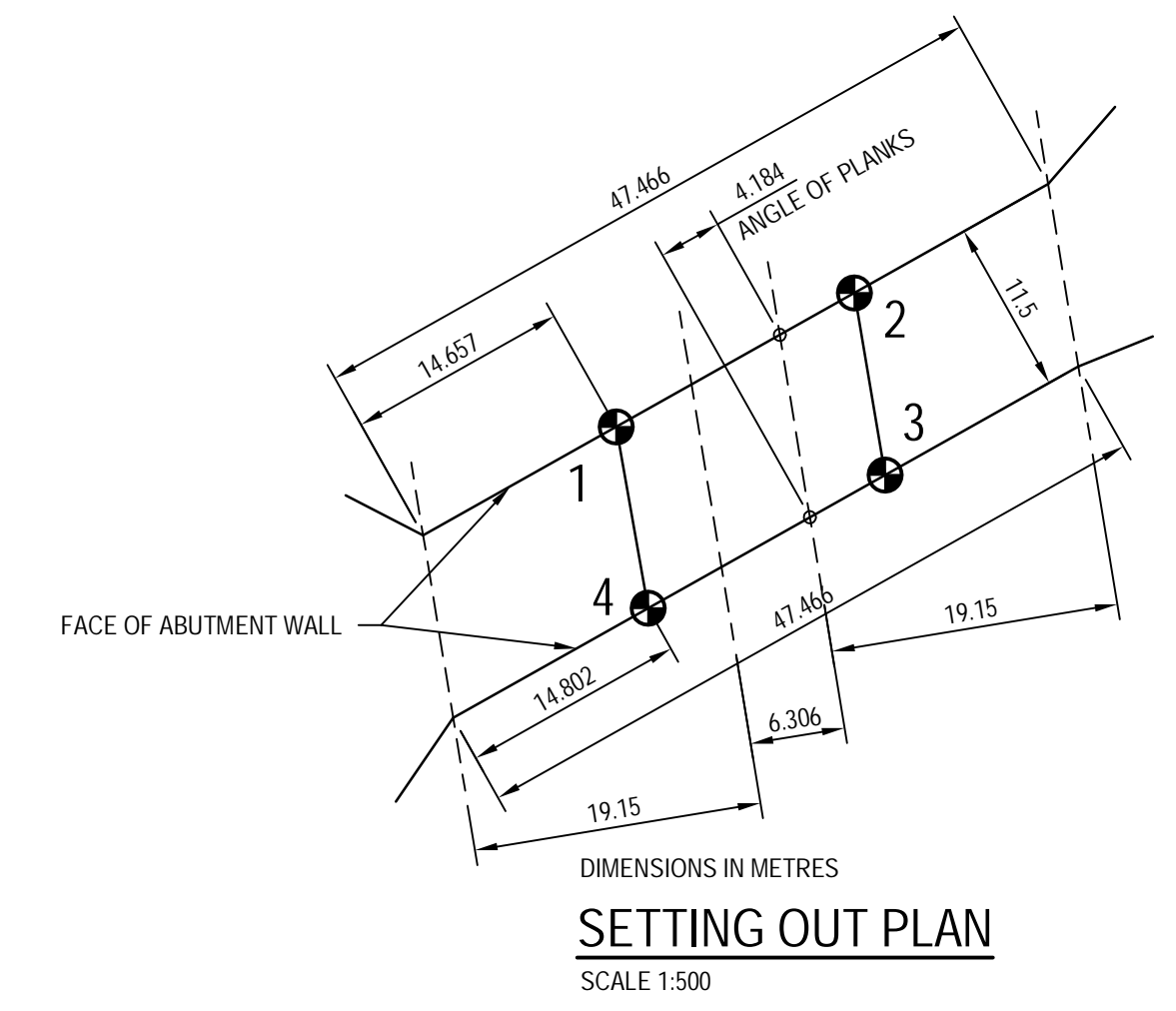
PROCUREMENT SOLUTIONS
MOLONGLO INFRASTRUCTURE STAGE 1D
HOLDENS CREEK BRIDGE No. 4152
GENERAL ARRANGEMENT - SHEET B
Original Size A1
Drawing No: 23-12739-S7602
Rev: F



BRIDGE SPECIFICATIONS

1. DESIGN TO AUSTRALIAN BRIDGE DESIGN STANDARD AS5100-2004
2. DESIGN TRAFFIC LOADING: SM1600 (3 LANES)
3. TRAFFIC BARRIERS: REGULAR PERFORMANCE LEVEL
4. EARTHQUAKE ACCELERATION COEFFICIENT: 0.10
5. ULS DESIGN WIND SEED 44m/s
6. REFER TO ROAD DESIGN DRAWINGS FOR DETAILS OF CONTROL LINE GEOMETRY.
7. REFER TO DOUGLAS PARTNERS REPORT PROJECT 46231_1 JUNE 2008 FOR FOUNDATION CONDITIONS.

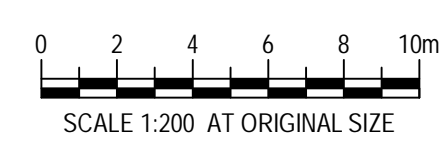
| SETTING OUT POINTS | | | |
|--------------------|------------|------------|------------|
| POINT | EASTING | NORTHING | LEVEL |
| 1 | 201852.187 | 600820.595 | RL 571.337 |
| 2 | 201867.955 | 600829.458 | RL 570.940 |
| 3 | 201869.989 | 600817.409 | RL 570.839 |
| 4 | 201854.301 | 600808.591 | RL 571.275 |



NOTES:
1. E.J. DENOTES EXPANSION JOINT

PRELIMINARY

| | | | | | |
|----|-------------------|---|-------|-------------|------------------|
| C | SECTION 8 MOVED | DJW | | | |
| B | FSP ISSUE | DJW | ML* | GV* | 04.05.11 |
| A | FOR CLIENT REVIEW | DJW | | | 04.02.11 |
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director |

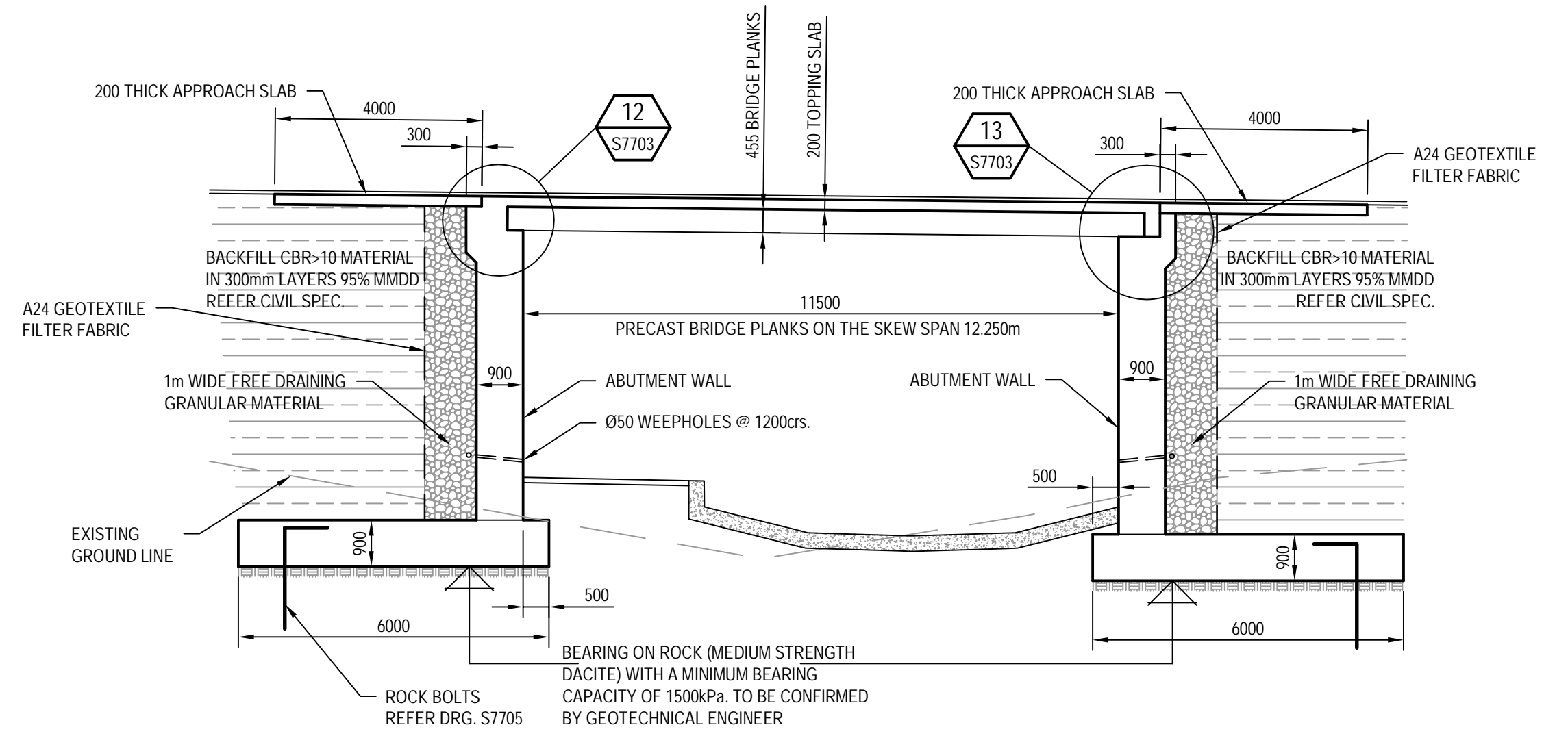
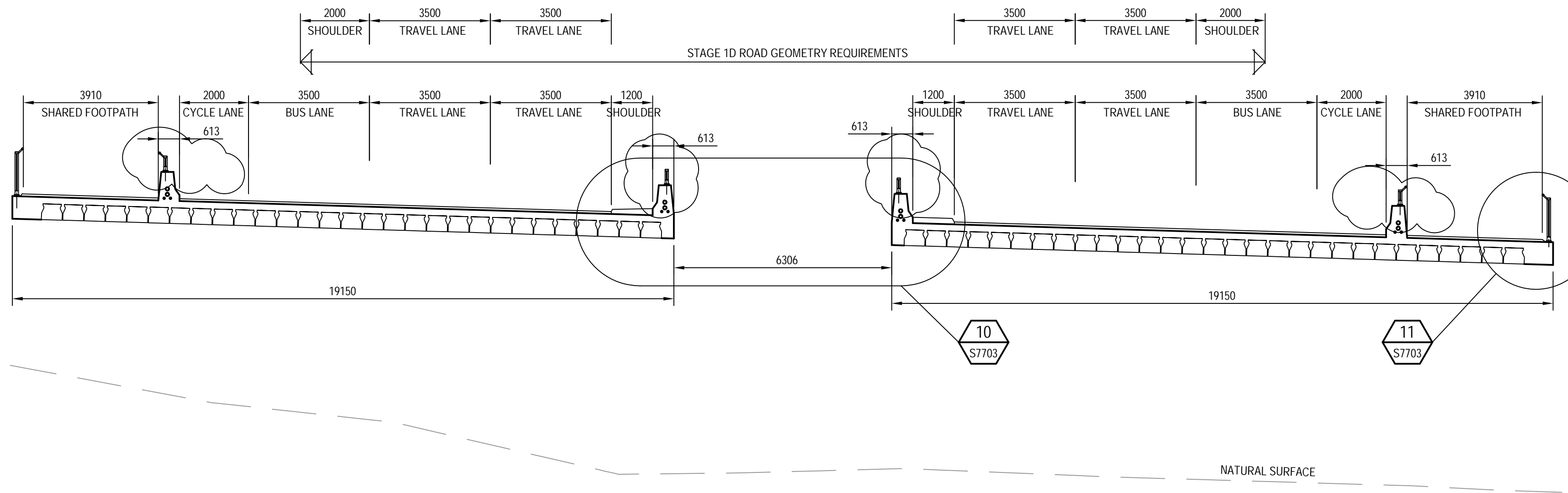


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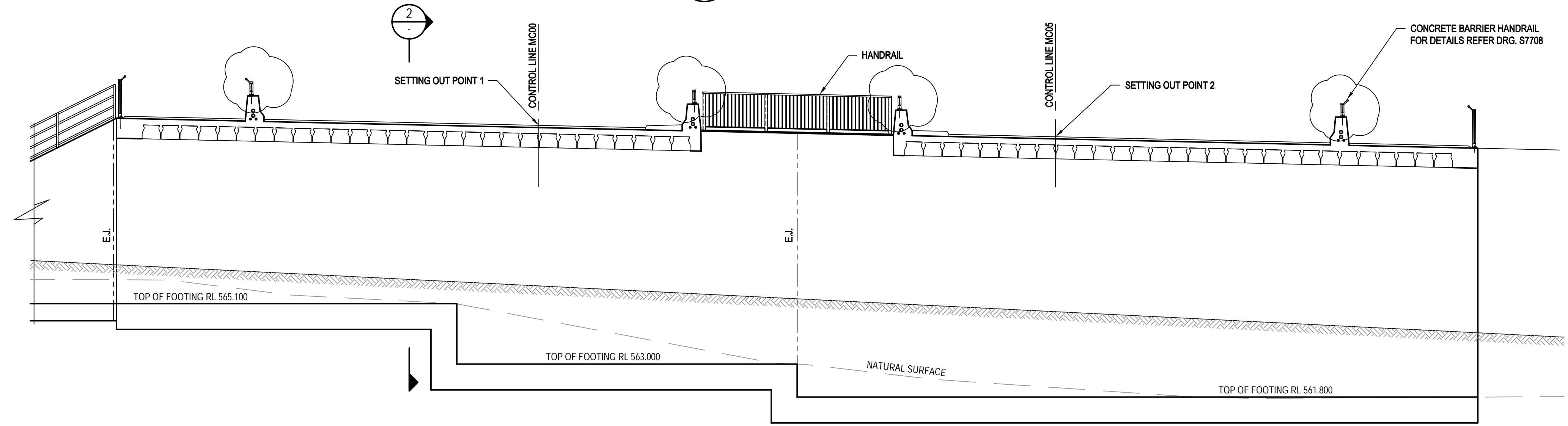
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| | |
|---------------|---|
| Client | PROCUREMENT SOLUTIONS |
| Project | MOLONGLO INFRASTRUCTURE - STAGE 1D |
| Title | CH 13470 UNDERPASS PLAN |
| Original Size | A1 |
| Drawing No: | 23-12739-S7701 |
| Rev: | C |

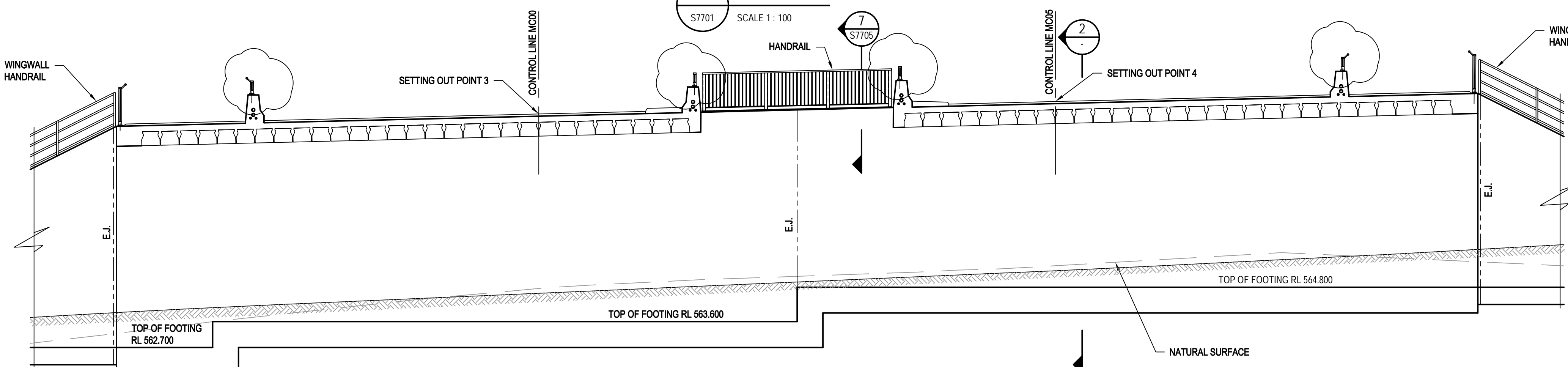


1 SECTION
S7701 SCALE 1: 100

2 SECTION
S7701 SCALE 1: 100



NORTH ABUTMENT
3 ELEVATION
S7701 SCALE 1: 100



SOUTH ABUTMENT
4 ELEVATION
S7701 SCALE 1: 100

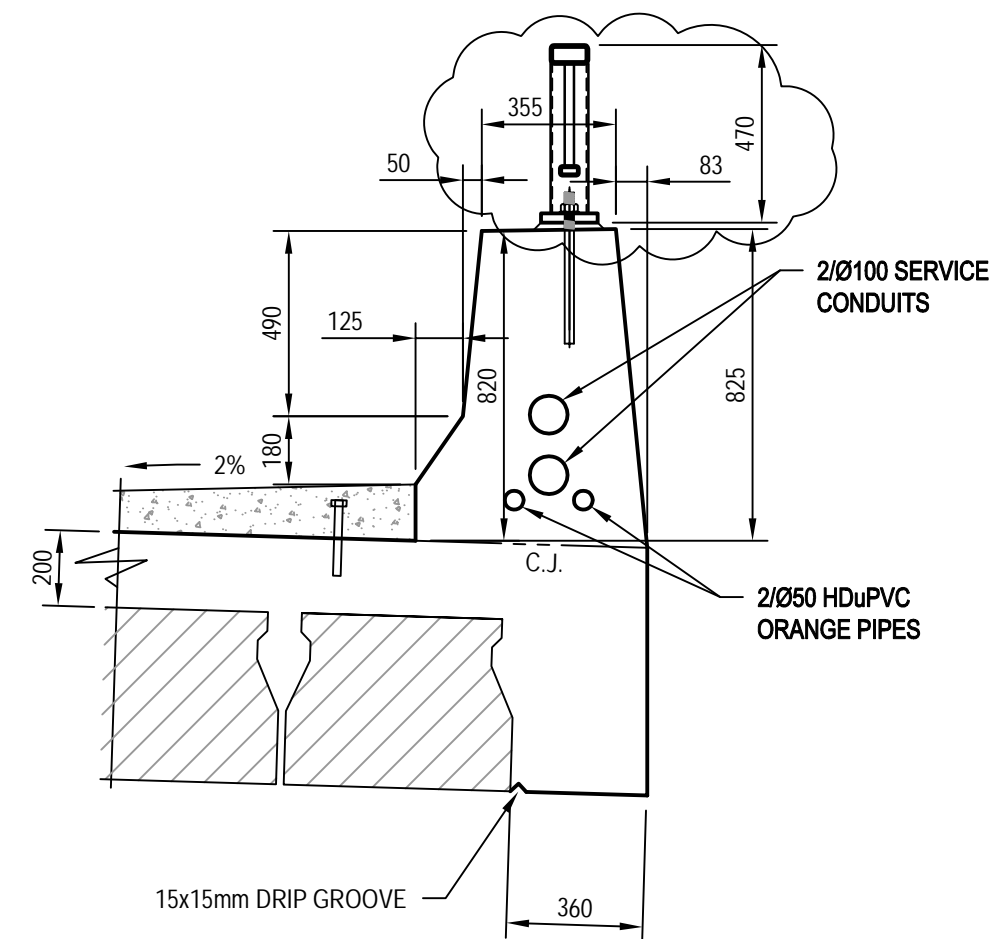


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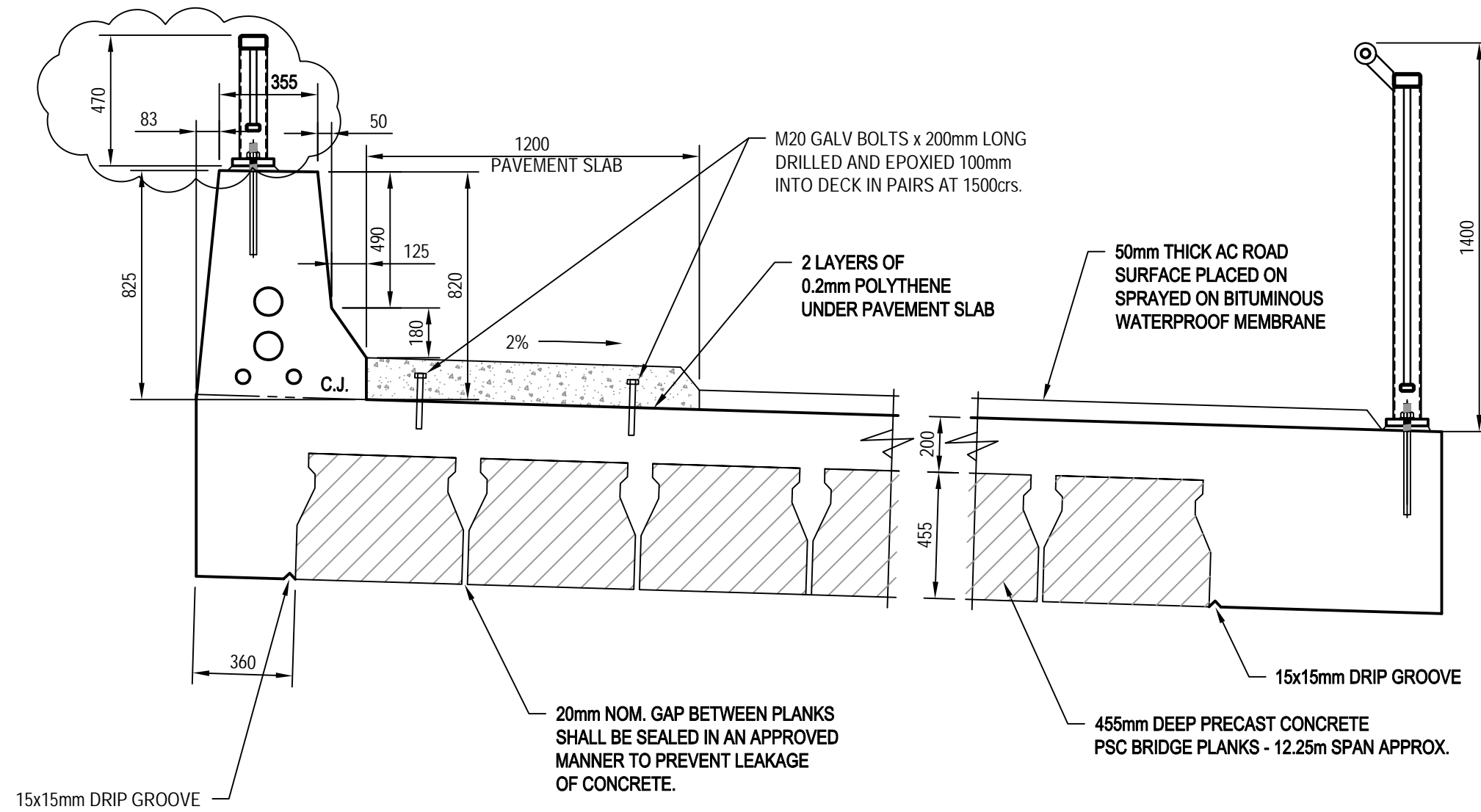
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| Drawn | D.WILKINSON | Designer | L.SHIELDS |
| Drafting Check | D.PIGRAM* | Design Check | R.THOMPSON* |
| Approved (Project Director) | | | |
| Date | | | |
| Scale | 1:100 | | |

| | | | |
|---------------|---|-------------|-----------------------|
| Client | PROCUREMENT SOLUTIONS | | |
| Project | MOLONGLO INFRASTRUCTURE - STAGE 1D | | |
| Title | CH 13470 UNDERPASS | | |
| | GENERAL ARRANGEMENT - SHEET 1 | | |
| Original Size | A1 | Drawing No: | 23-12739-S7702 |
| | | Rev: | C |

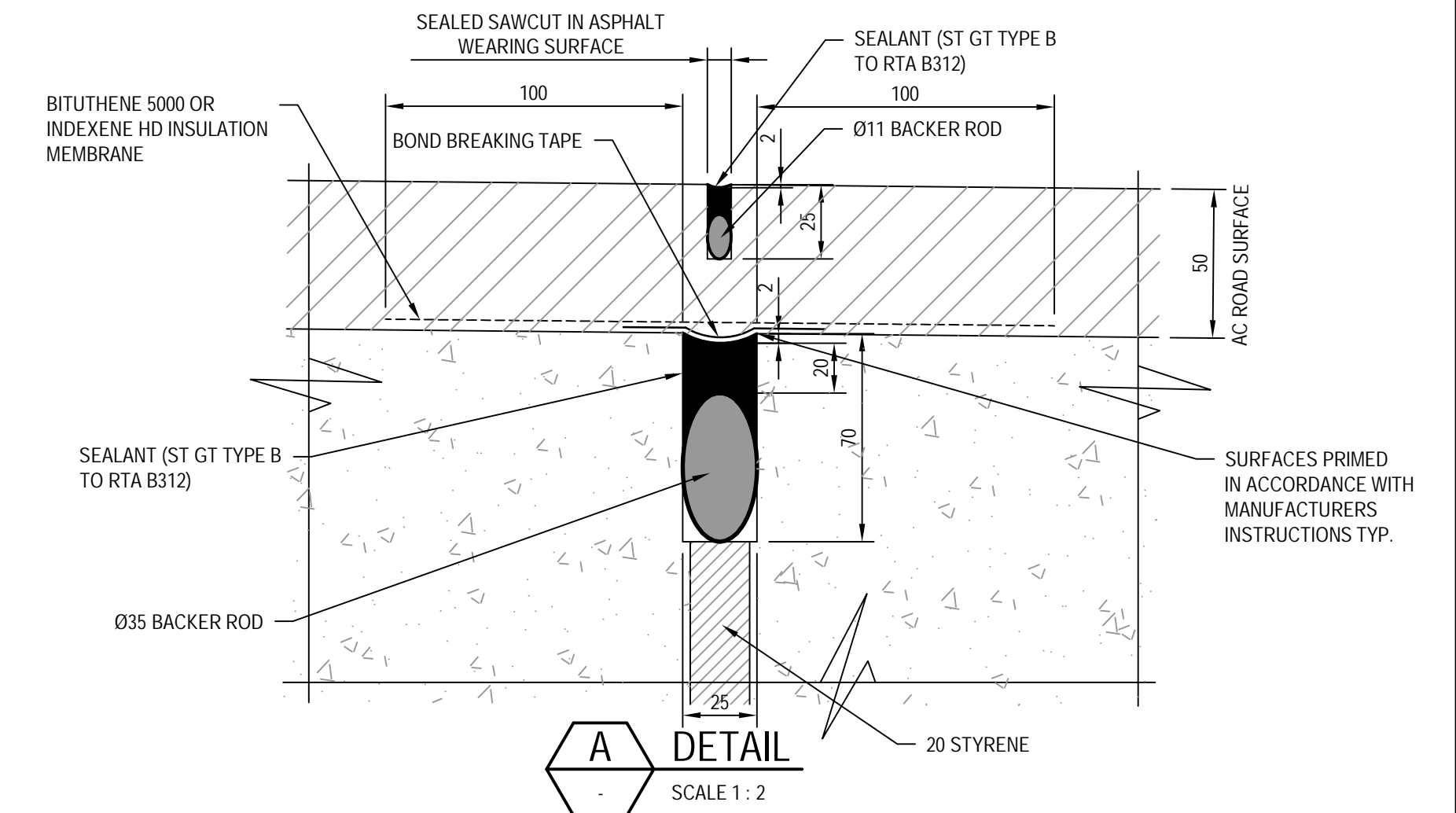
PRELIMINARY



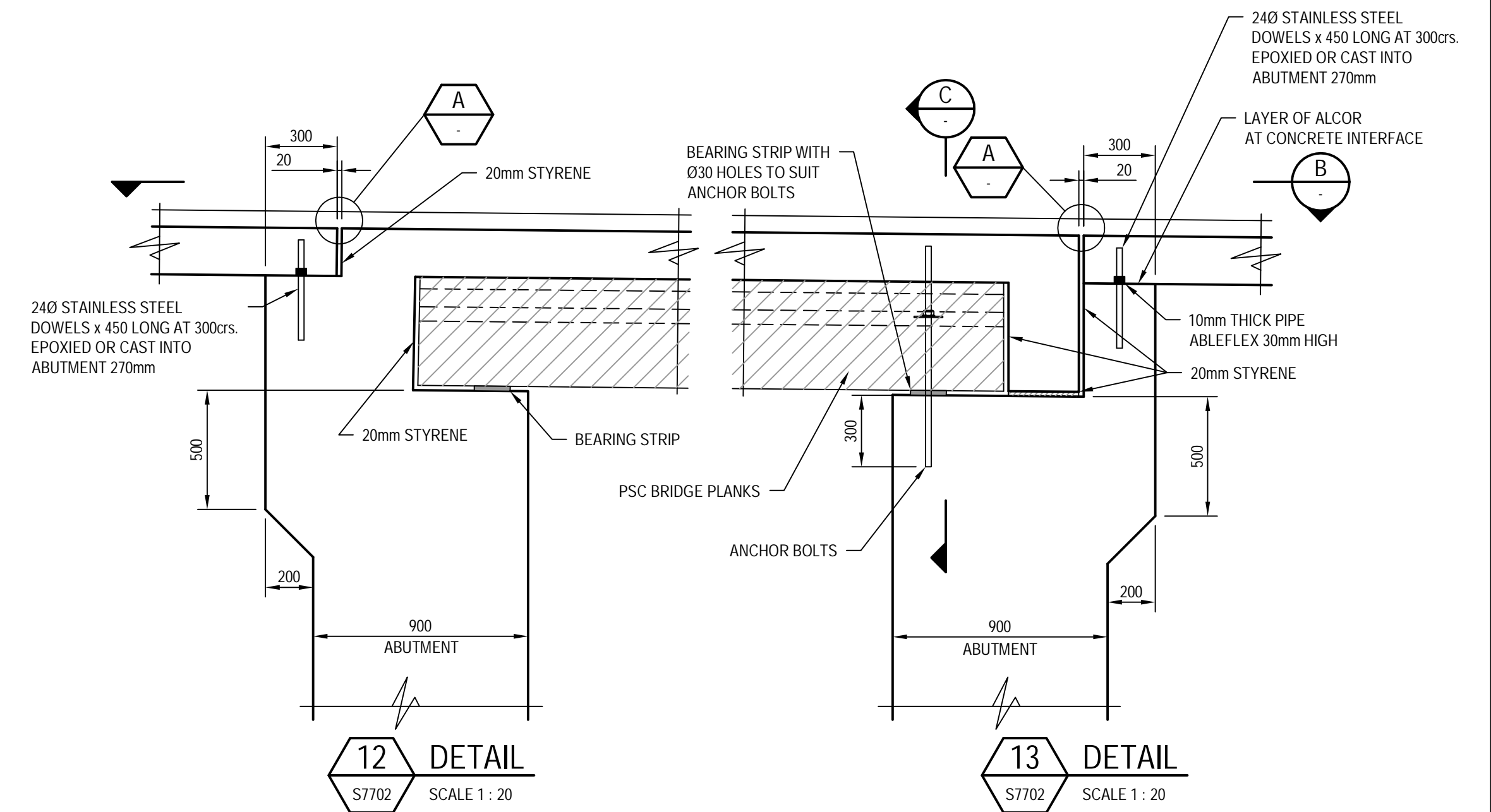
10 DETAIL
S7702 SCALE 1: 20



11 DETAIL
S7702 SCALE 1: 20

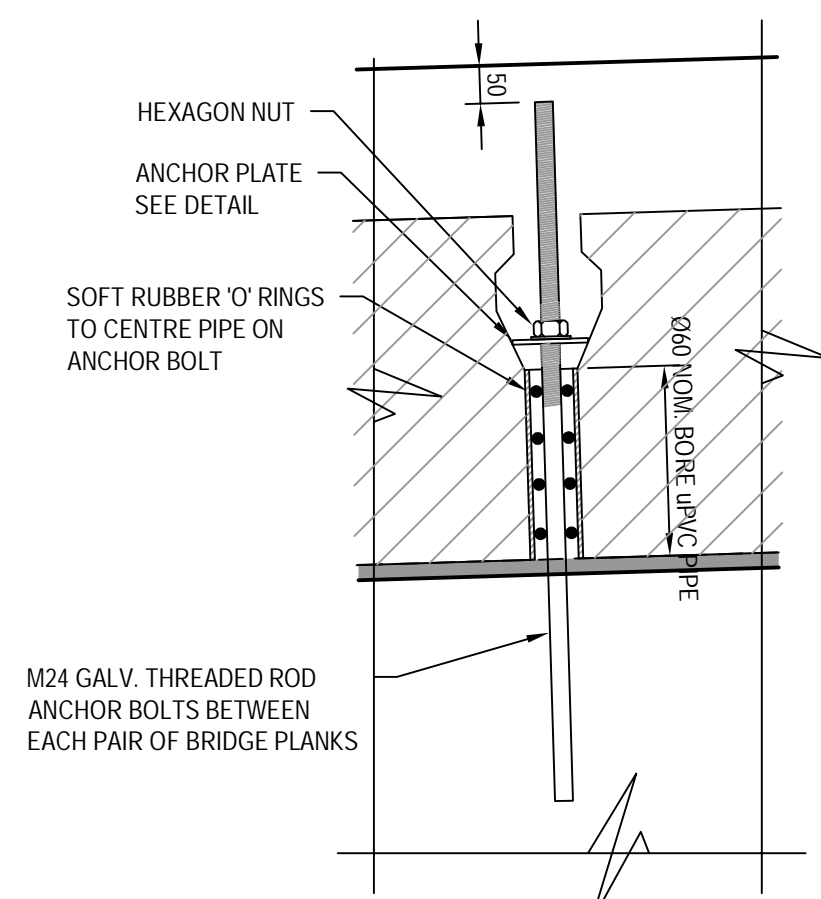


A DETAIL
SCALE 1: 2

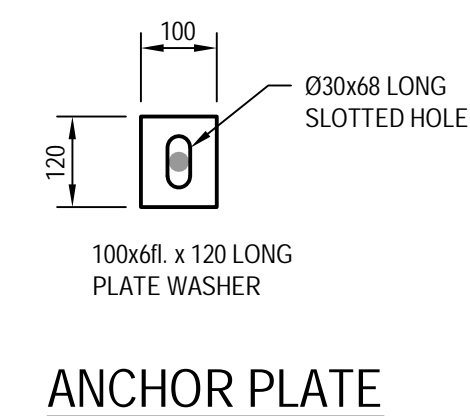


12 DETAIL
S7702 SCALE 1: 20

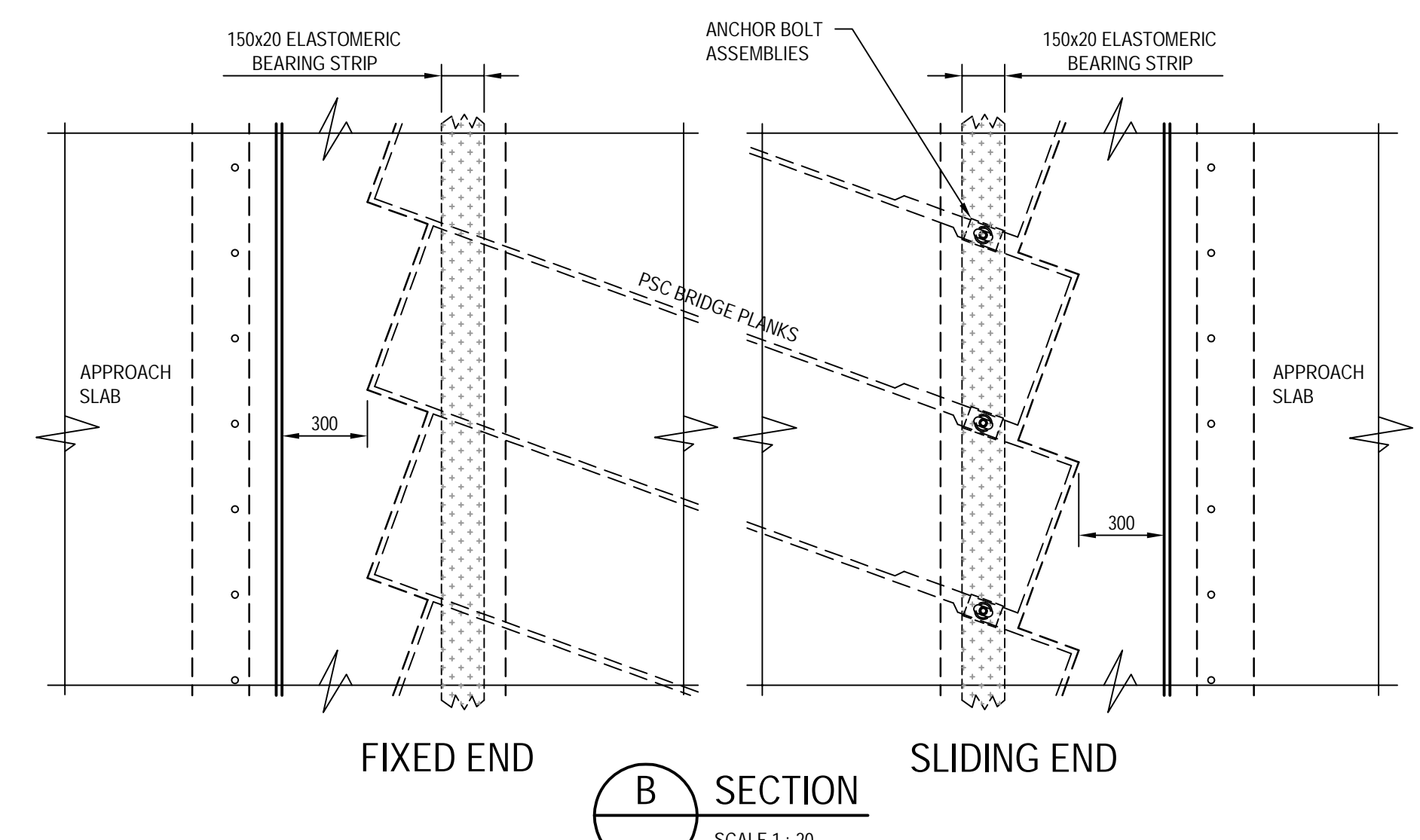
13 DETAIL
S7702 SCALE 1: 20



C SECTION
SCALE 1: 10



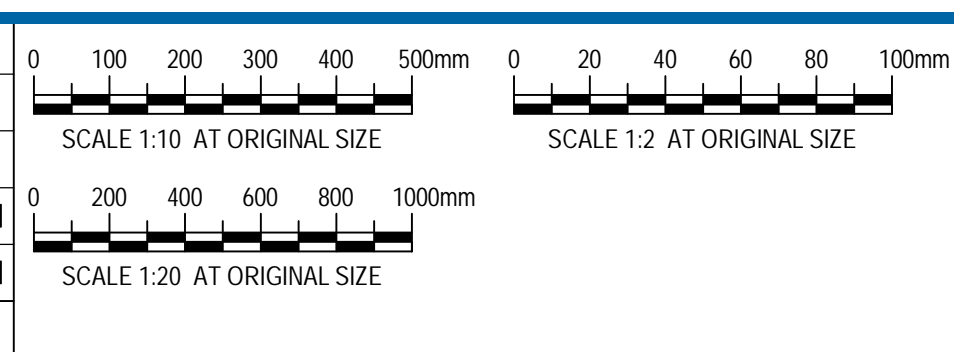
ANCHOR PLATE



B SECTION
SCALE 1: 20

PRELIMINARY

| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director | Date |
|----|-------------------|---|-------|-------------|------------------|----------|
| C | HANDRAILS REVISED | | DJW | | | |
| B | FSP ISSUE | | DJW | ML* | GV* | 04.05.11 |
| A | FOR CLIENT REVIEW | | DJW | | | 04.02.11 |



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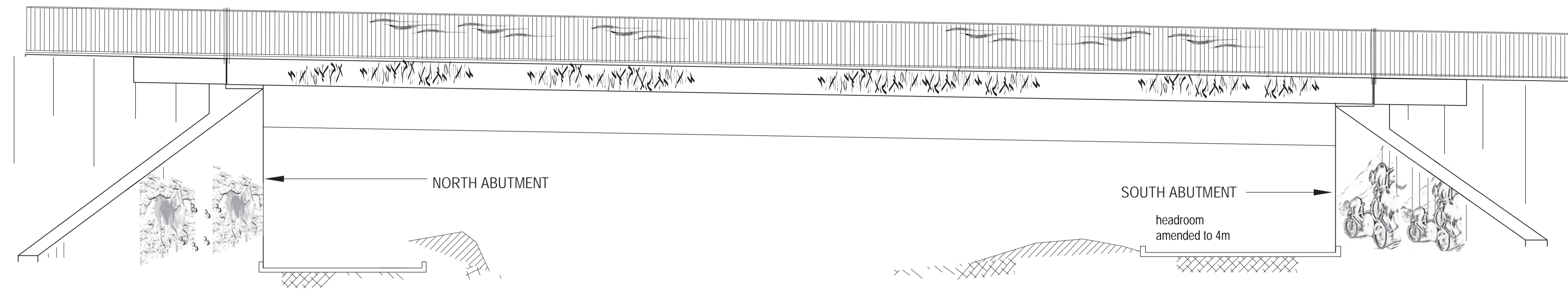
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| Designer | L.SHIELDS |
| Drafting Check | D.PIGRAM* |
| Design Check | R.THOMPSON* |
| Approved (Project Director) | |
| Date | |
| Scale | AS SHOWN |

Client **PROCUREMENT SOLUTIONS**
Project **MOLONGLO INFRASTRUCTURE - STAGE 1D**
Title **CH 13470 UNDERPASS GENERAL ARRANGEMENT - SHEET 2**

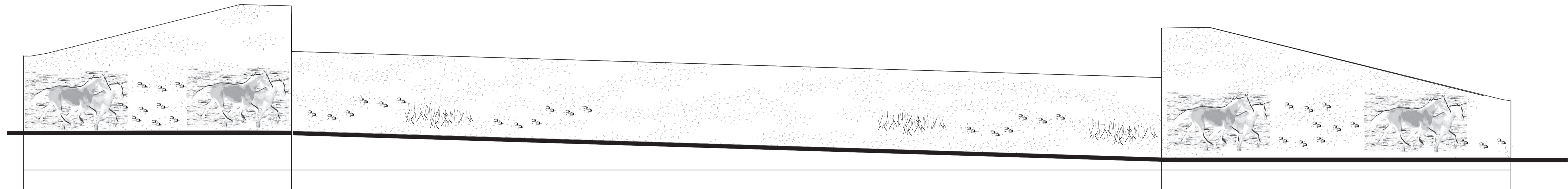
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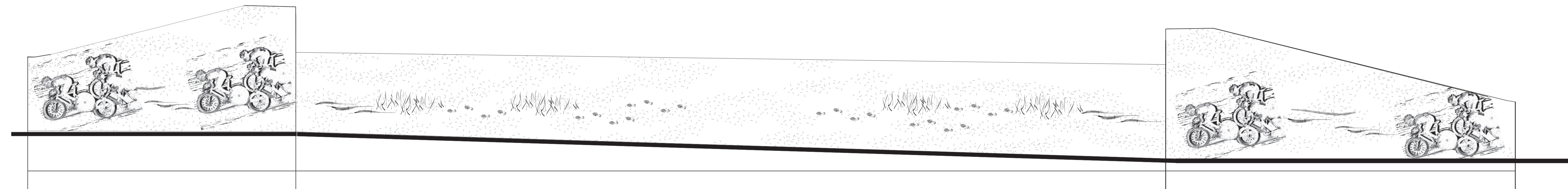


Elevation

Railing design elements shown are indicative and to be developed in the next stage. They are envisaged as metal cutouts relating to the flowing tyre tracks in the off-form design.



North abutment (headroom to 4m)
NB Overall texture to walls is indicative only



South abutment (headroom to 4.5m)

Concept description

This concept for the Northern and Southern wingwalls and abutments is based on stylised images of cyclists and horse riders, derived from photographs, to provide an artistic but realistic impression of activities on the paths. A series of tracks, the marks that bicycle wheels, horses' hooves, and joggers' feet make, interspersed with grassland impressions are used throughout the design. All are arranged within an overall flow and rhythm relating to movement and the landscape, directly inspired by the meanders of the nearby Molonglo River.

Users of the paths below will be able to relate directly to the imagery as they pass through. Casual or Criterium cyclists, pedestrians, and horse riders, will all relate to the oversized impressionistic marks and textures.

The designs reflect the activities on each path while working visually as a cohesive set for the whole structure.

Design considerations for aesthetics and cost:

- Legibility and scale of design motifs to suit viewers and scale of walls
- Strong relationship to users without being too literal
- Use of repeat elements
- Creating interest along the wall without crowding the scene

Implementation

- These designs are envisaged to be cast-in-situ or precast panels, using a series of moulds and mould liners.
- Subtle use of colour will assist legibility of designs where required.
- Further information about construction intent / methods, budget, maintenance and client preferences will be required to develop a final design at a later stage.

Artwork Design Concept

Holdens Creek Bridge
Molonglo Stage 1

Scale 1:100 at A1

February 2011

NB this concept is a combination of Preliminary Concepts 1 and 2, previously shown.

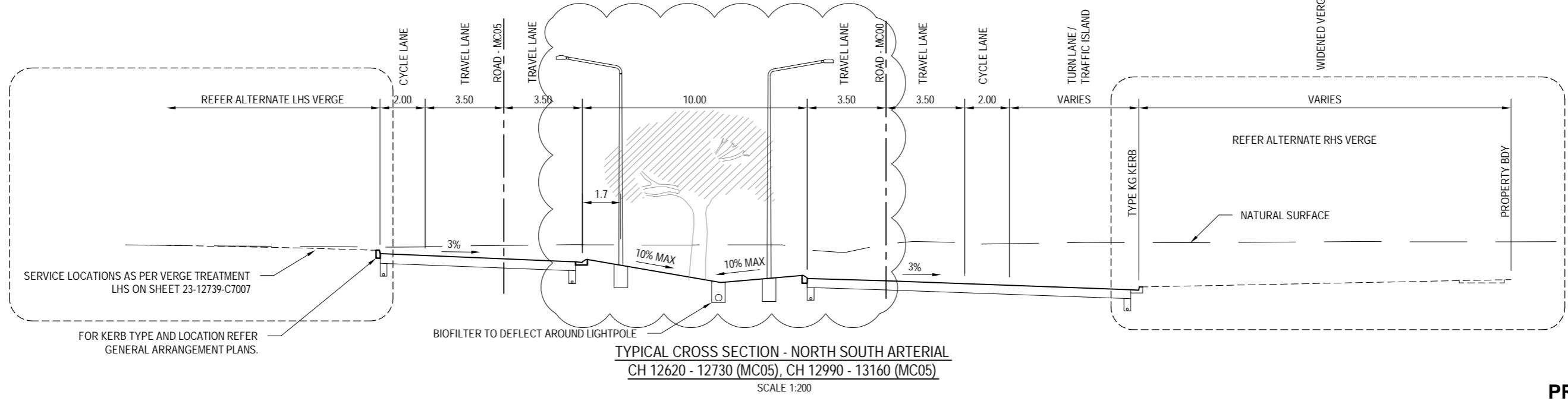
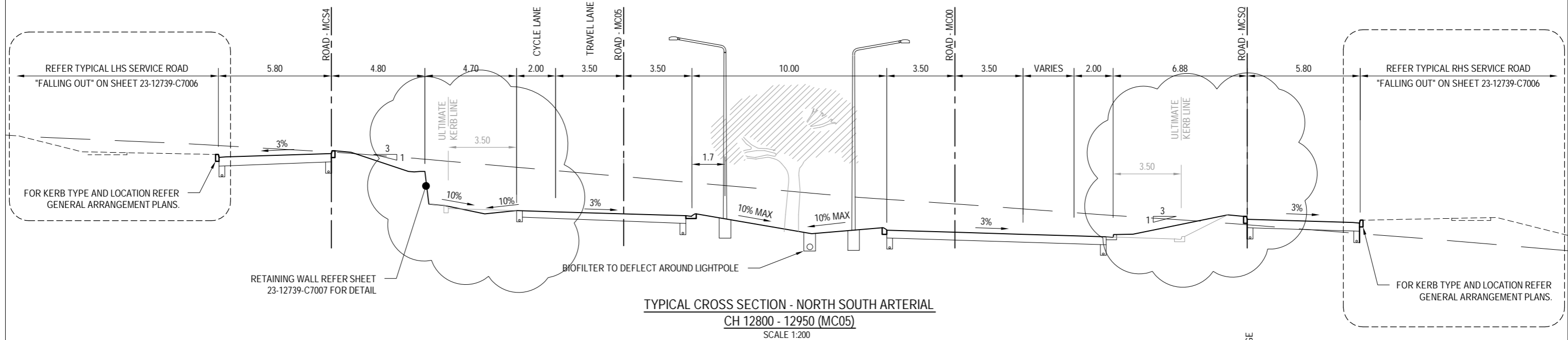
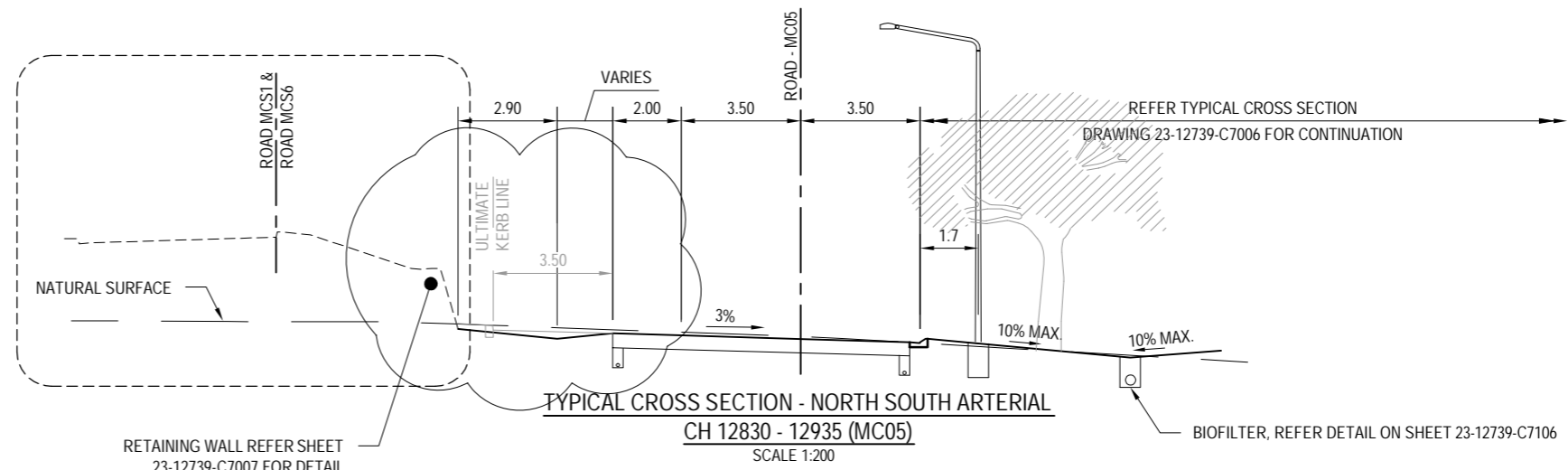


Philip Nizette Jennifer Jones
ph/fax (61-2) 6258 6319
wellspring@iimetro.com.au
10 Hancock St Spence ACT 2615
Australia

NOTES

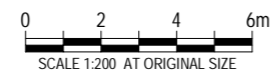
1. ALL KERB SIDE LANE WIDTHS ARE MEASURED TO THE NOMINAL FACE OF KERB.

PEDESTIAN AND CYCLIST PATHS ARE DESIGNED IN ACCORDANCE WITH AUSTRROADS GUIDE TO ROAD DESIGN PART 6A PEDESTRIAN AND CYCLIST PATH AND COMPLIES WITH RULE 27 OF THE CRIME PREVENTION CODE.



PRELIMINARY

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|----|----------|---|-------|-------------|------------------|----------|
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director | Date |
| B | | ADDITIONAL NOTES AND REMOVAL OF RIGHT TURN LANE | MPQ | ML* | CK* | 26.08.11 |
| A | | FSP ISSUE | MPQ | ML* | GV* | 04.05.11 |



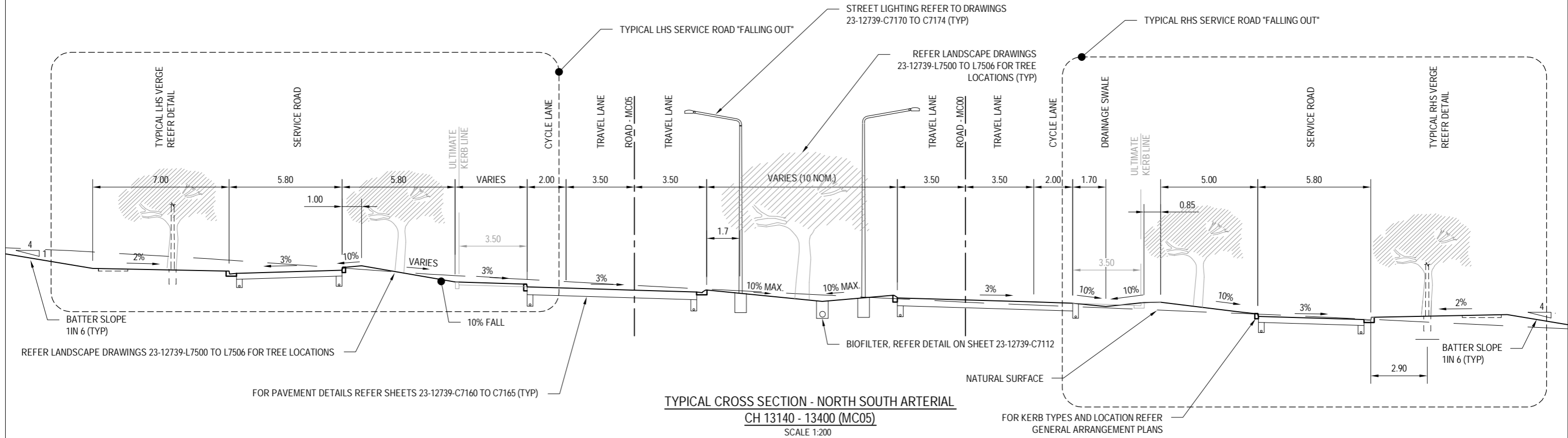
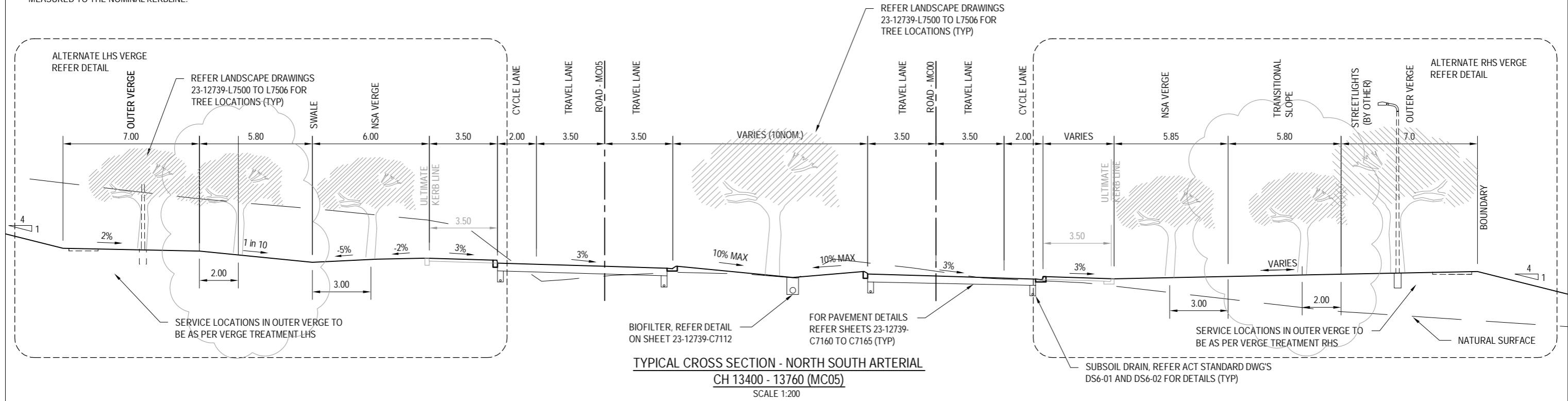
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| Drafting Check | | Design Check | |
| Approved (Project Director) | | Date | |
| Scale | 1:200 | This Drawing must not be used for Construction unless signed as Approved | |

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| Client | PROCUREMENT SOLUTIONS |
| Project | MOLONGLO INFRASTRUCTURE - STAGE 1D |
| Title | TYPICAL CROSS SECTIONS - SHEET 1 OF 4 |
| Original Size | A3 |
| Drawing No: | 23-12739-C7005 |
| Rev: | B |

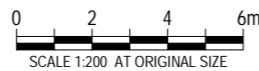
NOTE
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PRELIMINARY

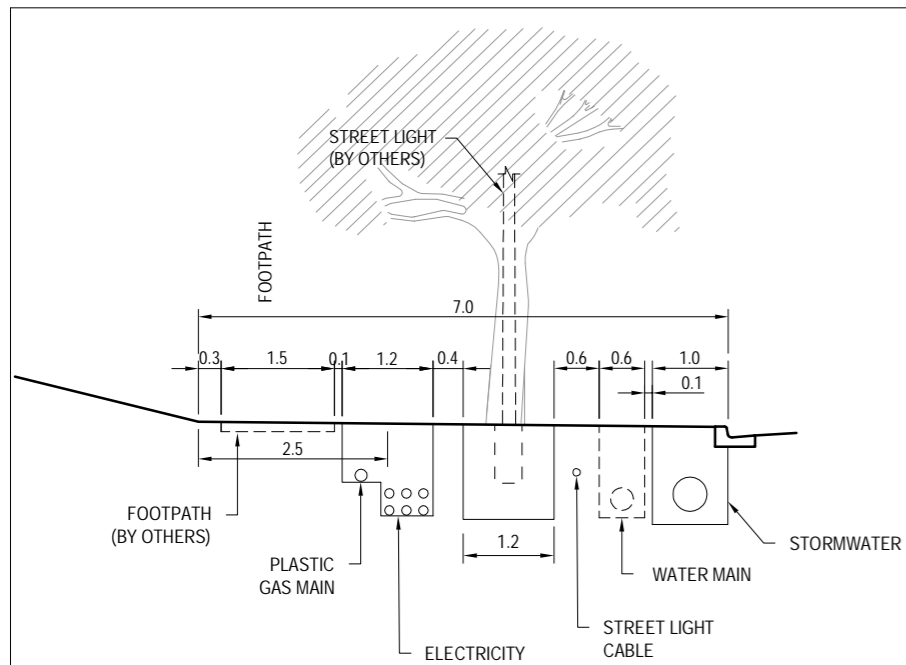
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| C | ADDITIONAL TREES (DA) | GD | ML* | CK* | 15.08.11 | |
| B | ADDITIONAL NOTES (DA) | MPQ | ML* | CK* | 26.08.11 | |
| A | FSP ISSUE | MPQ | ML* | GV* | 04.05.11 | |
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director | Date |



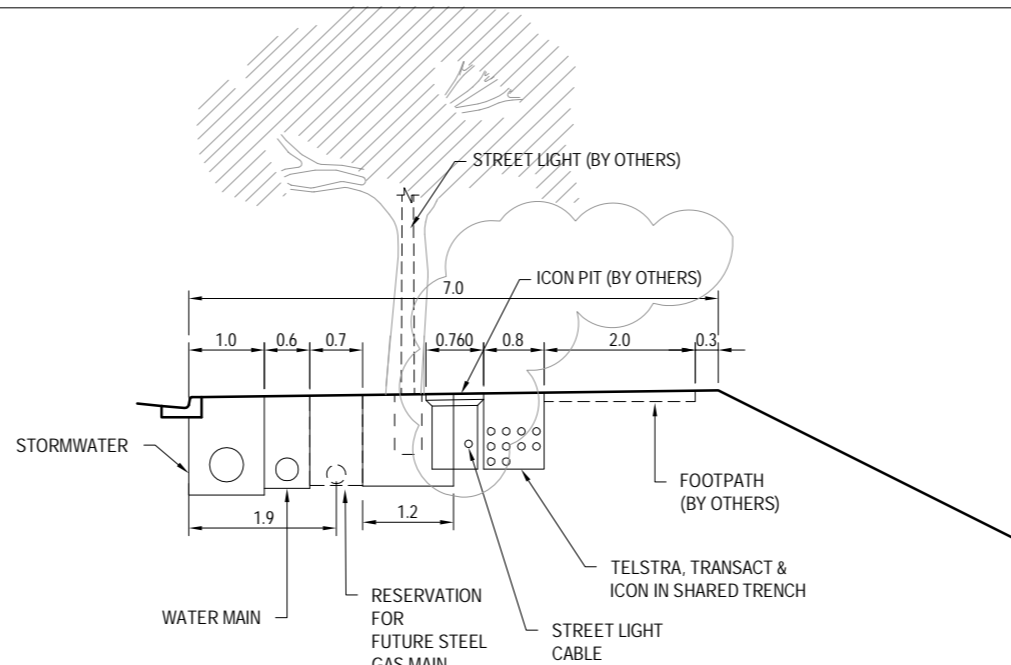
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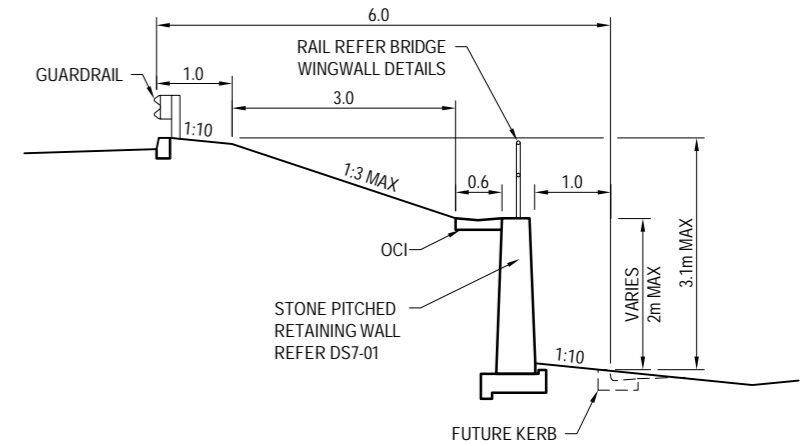
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| Client | PROCUREMENT SOLUTIONS |
| Project | MOLONGLO INFRASTRUCTURE - STAGE 1D |
| Title | TYPICAL CROSS SECTIONS - SHEET 2 OF 4 |
| Original Size | A3 |
| Drawing No: | 23-12739-C7006 |
| Rev: | C |



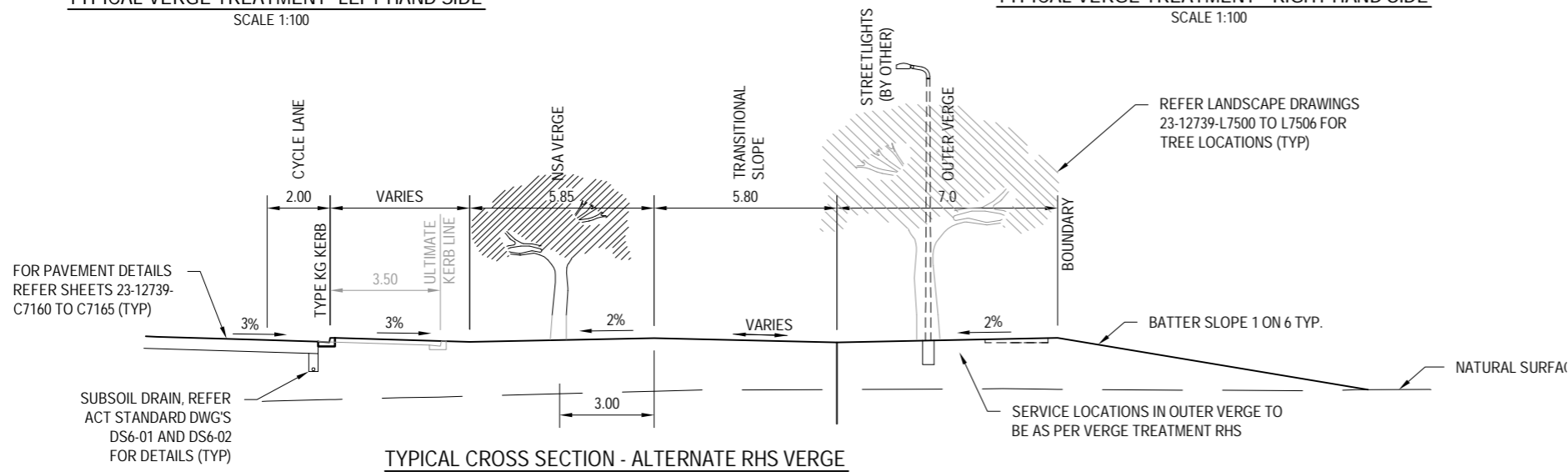
TYPICAL VERGE TREATMENT - LEFT HAND SIDE
SCALE 1:100



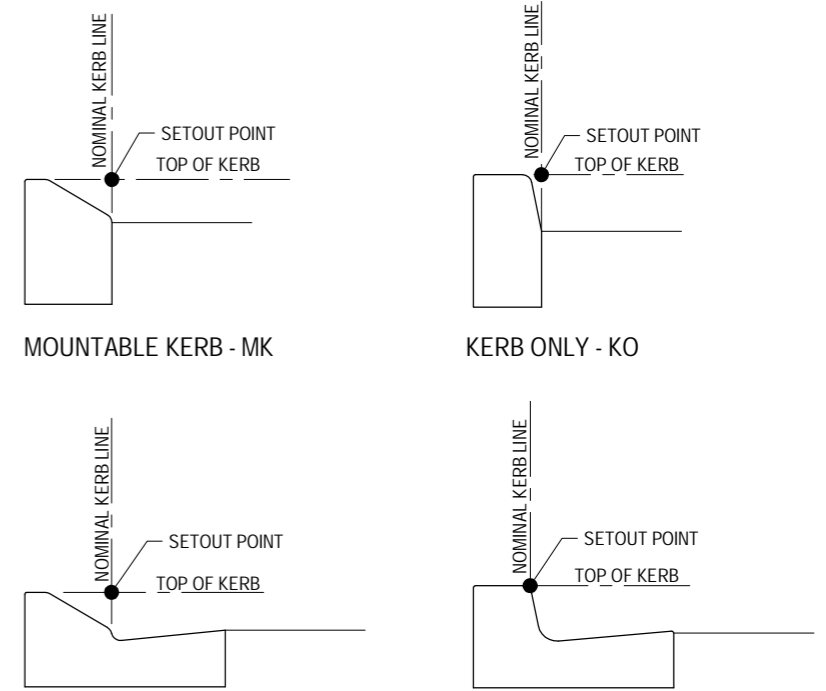
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SCALE 1:100



TYPICAL SECTION - RETAINING WALL

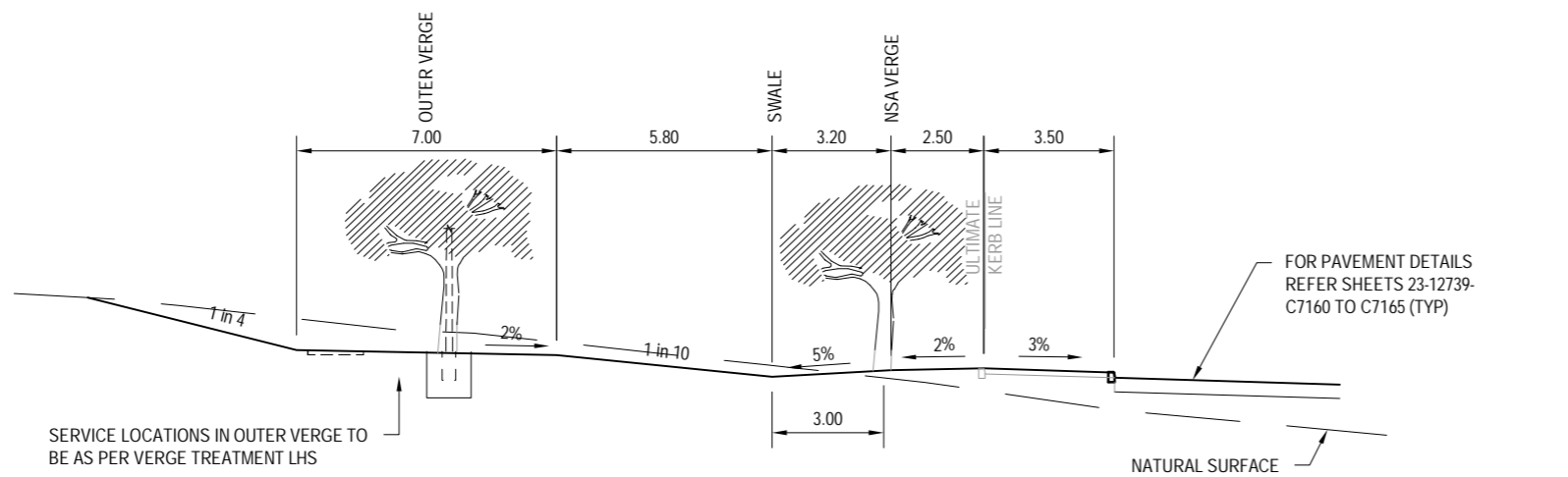


TYPICAL CROSS SECTION - ALTERNATE RHS VERGE

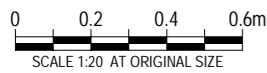


MOUNTABLE KERB - MK KERB ONLY - KO
MOUNTABLE KERB AND GUTTER - MKG KERB AND GUTTER ONLY - KG

KERB SETOUT
SCALE 1:20



TYPICAL CROSS SECTION - ALTERNATE LHS VERGE
SCALE 1:200



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PRELIMINARY

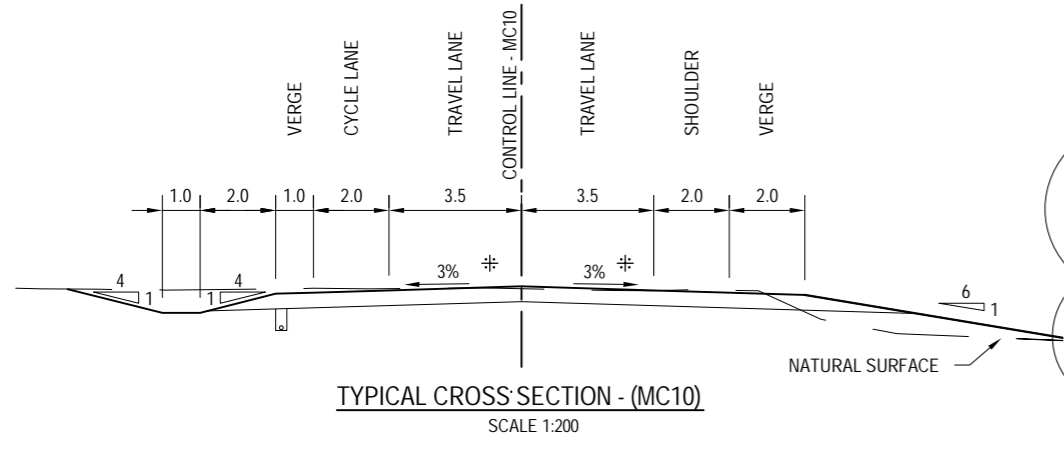
| No | Revision | Note: * indicates signatures on original issue of drawing or last revision of drawing | Drawn | Job Manager | Project Director | Date |
|----|----------|---|-------|-------------|------------------|----------|
| C | | ICON PIT ADDED | GD | ML* | CK* | 15.09.11 |
| B | | ADDITIONAL NOTES (DA) | MPQ | ML* | CK* | 26.08.11 |
| A | | FSP ISSUE | MPQ | ML* | GV* | 04.05.11 |

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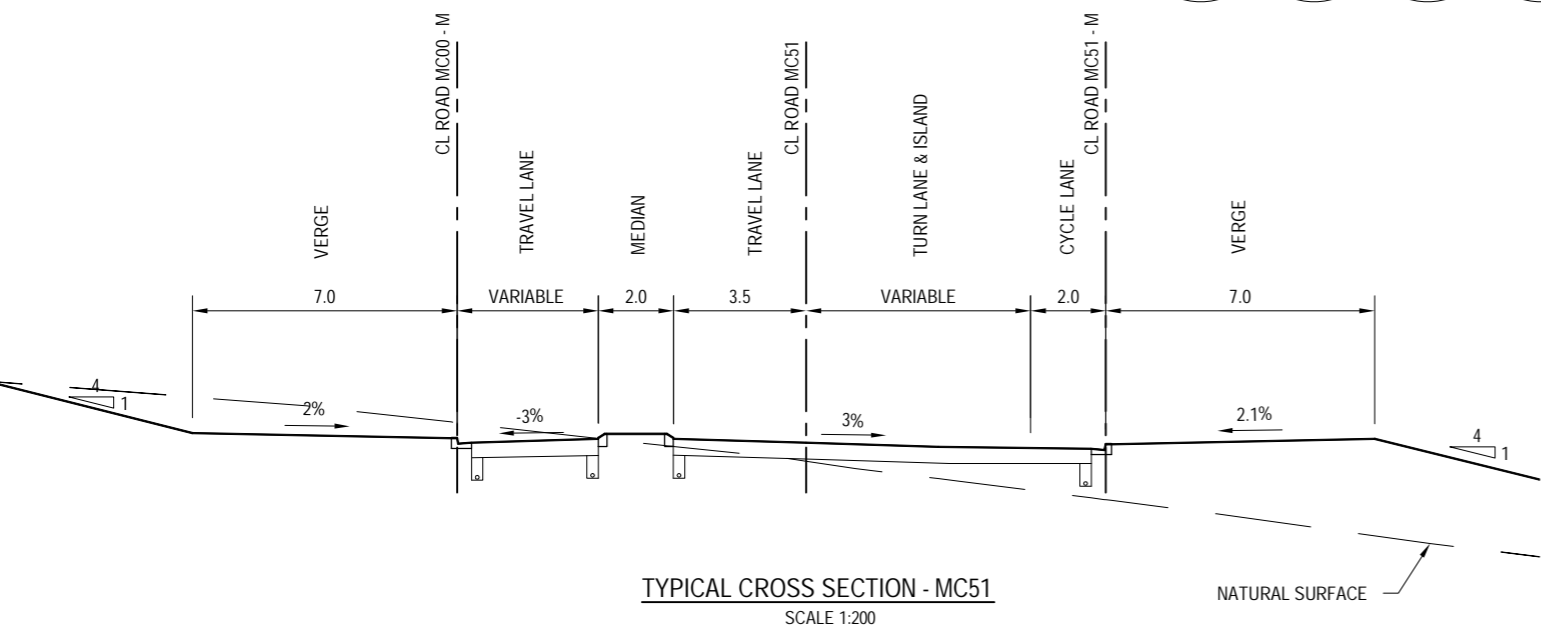
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| | Approved (Project Director) | Date | Title TYPICAL CROSS SECTIONS - SHEET 3 OF 4 |
| Scale AS SHOWN | This Drawing must not be used for Construction unless signed as Approved | | Original Size A3 Drawing No: 23-12739-C7007 Rev: C |

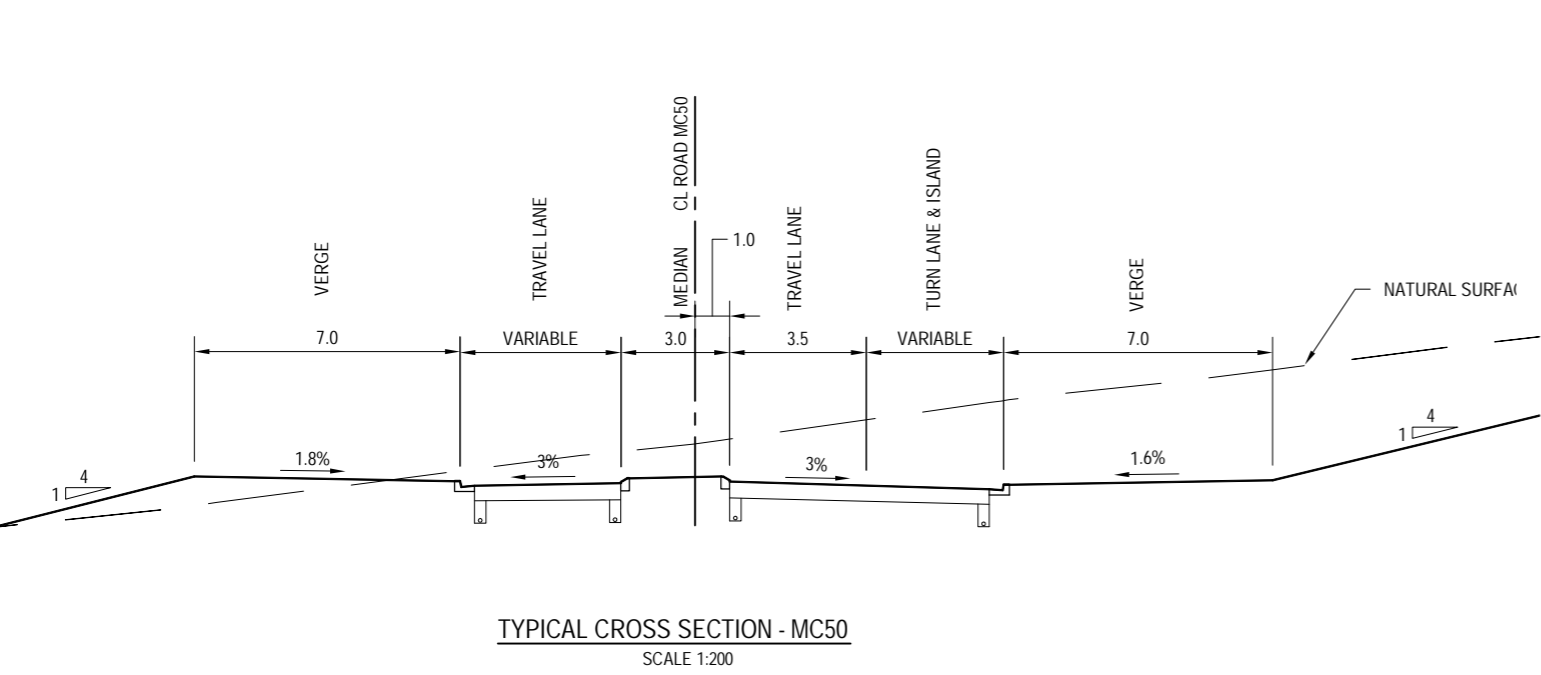
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|-----------------------------|-------|------------|----------|-------------|-----------|---------|
| ROAD | SIDE | START (CH) | END (CH) | START XFALL | END XFALL | COMMENT |
| MC10 | RIGHT | 47.91 | 102.91 | -3% | 3% | TRANS. |



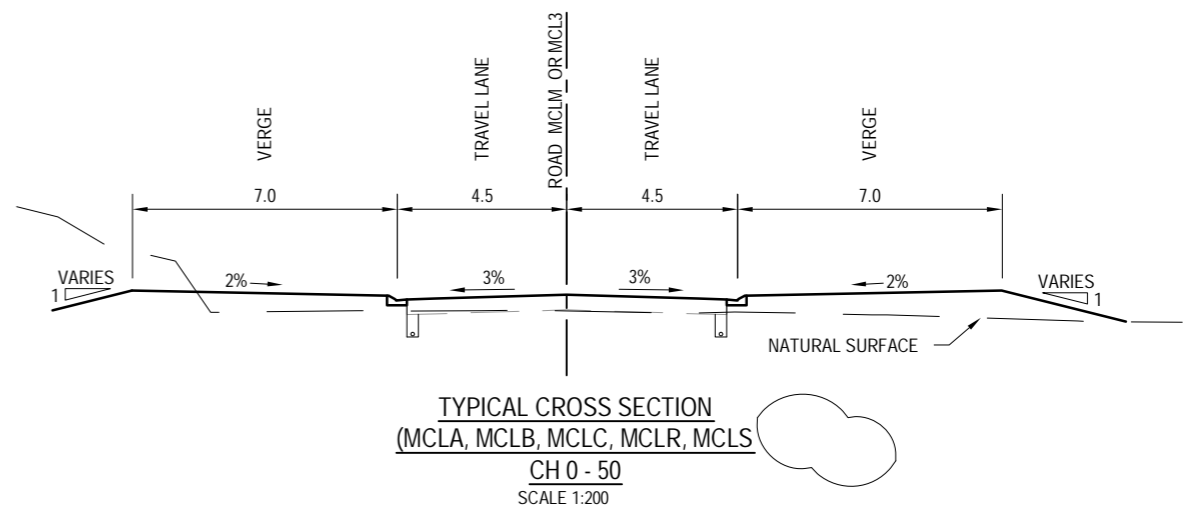
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SCALE 1:200



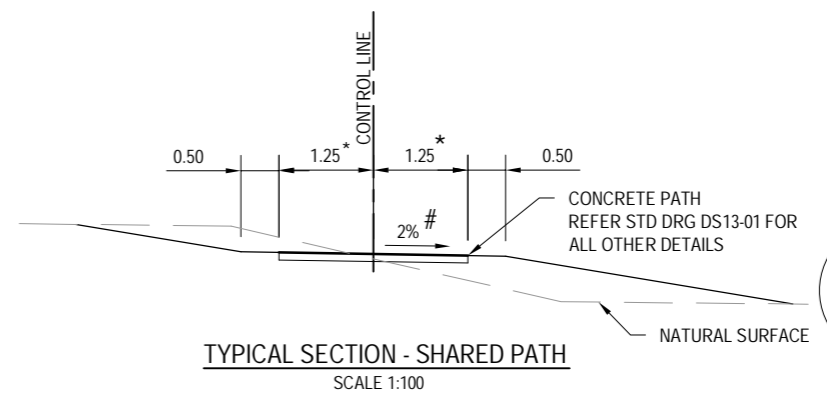
TYPICAL CROSS SECTION - MC51
SCALE 1:200



TYPICAL CROSS SECTION - MC50
SCALE 1:200



TYPICAL CROSS SECTION
(MCLA, MCLB, MCLC, MCLR, MCLS)
CH 0 - 50
SCALE 1:200



TYPICAL SECTION - SHARED PATH
SCALE 1:100

* FULL WIDTH OF CONCRETE FOR PATH 30 TO BE 3.0m AND PATH 31 TO BE 2.5m WITH 0.5m CONCRETE SHOULDER

PATH CROSSFALL
PATH30 - 2% RIGHT TO LEFT
PATH31 - 2% LEFT TO RIGHT
PATH32 - 2% LEFT TO RIGHT

FOR PATHS ON BRIDGES REFER TO DETAILS ON DRAWINGS 23-12739-S7600 TO S7621 AND 23-12739-S7700 TO S7700

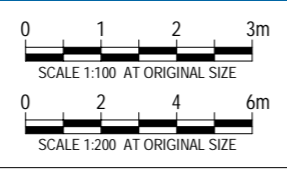
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NOTES

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|----|---|---|-------|-------------|------------------|----------|
| B | ADDITIONAL NOTES AND AMENDED CROSS SECTION (DA) | | MPQ | ML* | CK* | 26.08.11 |
| A | FSP ISSUE | | MPQ | ML* | GV* | 04.05.11 |



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| Drafting Check | Design Check | Approved (Project Director) | Date | Project Title |
| Scale | AS SHOWN | This Drawing must not be used for Construction unless signed as Approved | | Original Size |

PROCUREMENT SOLUTIONS
MOLONGLO INFRASTRUCTURE - STAGE 1D
TYPICAL CROSS SECTIONS - SHEET 4 OF 4
 Drawing No: **23-12739-C7008** Rev: **B**