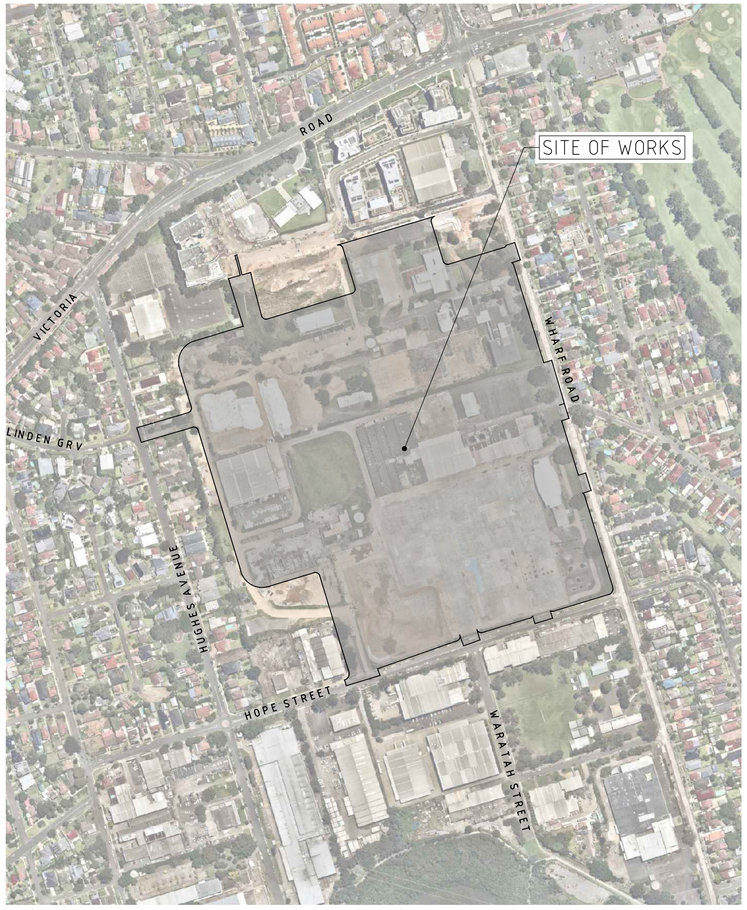
# MELROSE PARK INFRASTRUCTURE WORKS

## DEVELOPMENT APPLICATION
## CIVIL ENGINEERING PACKAGE




LOCALITY PLAN
N.T.S.

SOURCE: NEARMAPS (2022)

| CIVIL DRAWING SCHEDULE | |
|---|---|
| DRG No. | DRAWING TITLE |
| C01.01 | COVER SHEET,LOCALITY PLAN AND DRAWING SCHEDULE |
| C01.02 | SPECIFICATION NOTES |
| C01.15 | GENERAL ARRANGEMENT PLAN |
| C01.21 | SHEET LAYOUT PLAN |
| C02.01 | SEDIMENT AND SOIL EROSION PLAN SHEET 01 |
| C02.02 | SEDIMENT AND SOIL EROSION PLAN SHEET 02 |
| C02.11 | SEDIMENT AND SOIL EROSION DETAILS SHEET 01 |
| C02.12 | SEDIMENT AND SOIL EROSION DETAILS SHEET 02 |
| C03.01 | CUT AND FILL PLAN SHEET 01 |
| C03.02 | CUT AND FILL PLAN SHEET 02 |
| C03.03 | CUT AND FILL PLAN SHEET 03 |
| C03.04 | CUT AND FILL PLAN SHEET 04 |
| C03.05 | CUT AND FILL PLAN SHEET 05 |
| C03.11 | SITE SECTIONS SHEET 01 |
| C03.12 | SITE SECTIONS SHEET 02 |
| C03.13 | SITE SECTIONS SHEET 03 |
| C03.14 | SITE SECTIONS SHEET 04 |
| C03.15 | SITE SECTIONS SHEET 05 |
| C03.21 | EARLY WORKS TYPICAL SECTIONS |
| C03.31 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 01 |
| C03.32 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 02 |
| C03.33 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 03 |
| C03.34 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 04 |
| C03.35 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 05 |
| C03.36 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 06 |
| C03.37 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 07 |
| C03.38 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 08 |
| C03.39 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 09 |
| C03.40 | EARLY WORKS LONGITUDINAL SECTIONS SHEET 10 |
| C04.01 | SITEWORKS GRADING & STORMWATER PLAN SHEET 01 |
| C04.02 | SITEWORKS GRADING & STORMWATER PLAN SHEET 02 |
| C04.03 | SITEWORKS GRADING & STORMWATER PLAN SHEET 03 |
| C04.04 | SITEWORKS GRADING & STORMWATER PLAN SHEET 04 |
| C04.05 | SITEWORKS GRADING & STORMWATER PLAN SHEET 05 |
| C04.06 | SITEWORKS GRADING & STORMWATER PLAN SHEET 06 |
| C04.07 | SITEWORKS GRADING & STORMWATER PLAN SHEET 07 |
| C04.08 | SITEWORKS GRADING & STORMWATER PLAN SHEET 08 |
| C04.09 | SITEWORKS GRADING & STORMWATER PLAN SHEET 09 |
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| C04.26 | SITEWORKS GRADING & STORMWATER PLAN SHEET 26 |
| C04.27 | SITEWORKS GRADING & STORMWATER PLAN SHEET 27 |
| C04.31 | TYPICAL ROAD SECTIONS SHEET 01 |
| C04.32 | TYPICAL ROAD SECTIONS SHEET 02 |
| C04.33 | TYPICAL ROAD SECTIONS SHEET 03 |
| C04.34 | TYPICAL ROAD SECTIONS SHEET 04 |
| C04.41 | ROAD LONGITUDINAL SECTIONS SHEET 01 |
| C04.42 | ROAD LONGITUDINAL SECTIONS SHEET 02 |
| C04.43 | ROAD LONGITUDINAL SECTIONS SHEET 03 |
| C04.44 | ROAD LONGITUDINAL SECTIONS SHEET 04 |
| C04.45 | ROAD LONGITUDINAL SECTIONS SHEET 05 |
| C04.46 | ROAD LONGITUDINAL SECTIONS SHEET 06 |
| C04.47 | ROAD LONGITUDINAL SECTIONS SHEET 07 |
| C04.48 | ROAD LONGITUDINAL SECTIONS SHEET 08 |
| C04.49 | ROAD LONGITUDINAL SECTIONS SHEET 09 |
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| C04.54 | ROAD LONGITUDINAL SECTIONS SHEET 14 |
| C04.55 | ROAD LONGITUDINAL SECTIONS SHEET 15 |
| C04.56 | ROAD LONGITUDINAL SECTIONS SHEET 16 |
| C04.57 | ROAD LONGITUDINAL SECTIONS SHEET 17 |
| C04.58 | ROAD LONGITUDINAL SECTIONS SHEET 18 |
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| C04.60 | ROAD LONGITUDINAL SECTIONS SHEET 20 |
| C04.61 | ROAD LONGITUDINAL SECTIONS SHEET 21 |
| C04.62 | ROAD LONGITUDINAL SECTIONS SHEET 22 |
| C04.63 | ROAD LONGITUDINAL SECTIONS SHEET 23 |
| C04.64 | ROAD LONGITUDINAL SECTIONS SHEET 24 |
| C04.65 | ROAD LONGITUDINAL SECTIONS SHEET 25 |
| C04.66 | ROAD LONGITUDINAL SECTIONS SHEET 26 |
| C04.67 | ROAD LONGITUDINAL SECTIONS SHEET 27 |
| C04.68 | ROAD LONGITUDINAL SECTIONS SHEET 28 |
| C04.69 | ROAD LONGITUDINAL SECTIONS SHEET 29 |
| C04.70 | ROAD LONGITUDINAL SECTIONS SHEET 30 |
| C04.81 | CROSS SECTIONS - SHEET 01 |
| C04.82 | CROSS SECTIONS - SHEET 02 |
| C04.83 | CROSS SECTIONS - SHEET 03 |
| C04.84 | CROSS SECTIONS - SHEET 04 |
| C04.85 | CROSS SECTIONS - SHEET 05 |
| C04.86 | CROSS SECTIONS - SHEET 06 |
| C04.87 | CROSS SECTIONS - SHEET 07 |
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| C04.95 | CROSS SECTIONS - SHEET 15 |
| C04.96 | CROSS SECTIONS - SHEET 16 |
| C04.97 | CROSS SECTIONS - SHEET 17 |
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| C04.103 | CROSS SECTIONS - SHEET 23 |
| C04.104 | CROSS SECTIONS - SHEET 24 |
| C04.105 | CROSS SECTIONS - SHEET 25 |
| C04.106 | CROSS SECTIONS - SHEET 26 |
| C04.107 | CROSS SECTIONS - SHEET 27 |
| C04.108 | CROSS SECTIONS - SHEET 28 |
| C04.109 | CROSS SECTIONS - SHEET 29 |
| C04.110 | CROSS SECTIONS - SHEET 30 |
| C04.111 | CROSS SECTIONS - SHEET 31 |
| C04.112 | CROSS SECTIONS - SHEET 32 |
| C04.113 | CROSS SECTIONS - SHEET 33 |
| C04.114 | CROSS SECTIONS - SHEET 34 |
| C04.115 | CROSS SECTIONS - SHEET 35 |
| C04.116 | CROSS SECTIONS - SHEET 36 |
| C04.117 | CROSS SECTIONS - SHEET 37 |
| C04.118 | CROSS SECTIONS - SHEET 38 |
| C04.119 | CROSS SECTIONS - SHEET 39 |
| C04.120 | CROSS SECTIONS - SHEET 40 |
| C04.121 | CROSS SECTIONS - SHEET 41 |
| C04.122 | CROSS SECTIONS - SHEET 42 |
| C05.01 | STORMWATER PIT SCHEDULE |
| C05.11 | STORMWATER LONGITUDINAL SECTIONS SHEET 01 |
| C05.12 | STORMWATER LONGITUDINAL SECTIONS SHEET 02 |
| C05.13 | STORMWATER LONGITUDINAL SECTIONS SHEET 03 |
| C05.14 | STORMWATER LONGITUDINAL SECTIONS SHEET 04 |
| C05.15 | STORMWATER LONGITUDINAL SECTIONS SHEET 05 |
| C05.16 | STORMWATER LONGITUDINAL SECTIONS SHEET 06 |
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| C05.23 | STORMWATER LONGITUDINAL SECTIONS SHEET 13 |
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| C05.26 | STORMWATER LONGITUDINAL SECTIONS SHEET 16 |
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| C05.34 | STORMWATER LONGITUDINAL SECTIONS SHEET 24 |
| C05.35 | STORMWATER LONGITUDINAL SECTIONS SHEET 25 |
| C05.51 | CATCHMENT PLAN SHEET 01 |
| C05.52 | CATCHMENT PLAN SHEET 02 |
| C05.61 | BASIN LAYOUT PLAN SHEET 01 |
| C05.62 | BASIN LAYOUT PLAN SHEET 02 |
| C05.71 | BASIN SECTIONS SHEET 01 |
| C05.72 | BASIN SECTIONS SHEET 02 |
| C06.01 | INTERSECTION LAYOUT PLAN SHEET 01 |
| C06.02 | INTERSECTION LAYOUT PLAN SHEET 02 |
| C06.03 | INTERSECTION LAYOUT PLAN SHEET 03 |
| C06.04 | INTERSECTION LAYOUT PLAN SHEET 04 |
| C06.05 | INTERSECTION LAYOUT PLAN SHEET 05 |
| C07.01 | RETAINING WALL ALIGNMENT CONTROL PLAN SHEET 01 |
| C07.02 | RETAINING WALL ALIGNMENT CONTROL PLAN SHEET 02 |
| C07.03 | RETAINING WALL ALIGNMENT CONTROL PLAN SHEET 03 |
| C07.21 | RETAINING WALL LONGITUDINAL SECTION SHEET 01 |
| C07.22 | RETAINING WALL LONGITUDINAL SECTION SHEET 02 |
| C07.23 | RETAINING WALL LONGITUDINAL SECTION SHEET 03 |
| C07.51 | RETAINING WALL TYPICAL SECTIONS |
| C08.01 | SERVICES COORDINATION PLAN SHEET 01 |
| C08.02 | SERVICES COORDINATION PLAN SHEET 02 |
| C09.01 | DETAILS SHEET 01 |
| C09.02 | DETAILS SHEET 02 |
| C10.01 | SWEPT PATHS PLAN SHEET 01 |
| C10.02 | SWEPT PATHS PLAN SHEET 02 |
| C10.03 | SWEPT PATHS PLAN SHEET 03 |
| C10.04 | SWEPT PATHS PLAN SHEET 04 |
| C10.05 | SWEPT PATHS PLAN SHEET 05 |
| C10.06 | SWEPT PATHS PLAN SHEET 06 |
| C10.07 | SWEPT PATHS PLAN SHEET 07 |
| C10.08 | SWEPT PATHS PLAN SHEET 08 |
| C10.09 | SWEPT PATHS PLAN SHEET 09 |
| C10.10 | SWEPT PATHS PLAN SHEET 10 |
| C10.11 | SWEPT PATHS PLAN SHEET 11 |
| C10.12 | SWEPT PATHS PLAN SHEET 12 |
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| C10.41 | SWEPT PATHS PLAN SHEET 41 |
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| C10.43 | SWEPT PATHS PLAN SHEET 43 |
| C10.44 | SWEPT PATHS PLAN SHEET 44 |
| C10.45 | SWEPT PATHS PLAN SHEET 45 |
| C10.46 | SWEPT PATHS PLAN SHEET 46 |

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

COVER SHEET, LOCALITY PLAN
DRAWING SCHEDULE

JOB NUMBER
150077-60

DRAWING NUMBER
C01.01

REVISION
07

DRAWING SHEET SIZE = A1

Plotted: 06 Oct 23 10:00:07 AM - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 C01.01 Drawing Schedule.dwg

NOTE: ALL CIVIL ENGINEERING CONSTRUCTION WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CITY OF PARRAMATTA DEVELOPMENT GUIDELINES .THE AFOREMENTIONED GUIDELINES INCLUSIVE OF ALL SPECIFICATIONS TAKE PRECEDENCE OVER NOTES PROVIDED BELOW

## GENERAL NOTES

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

ALL DIMENSIONS ARE IN MILLIMETRES & ALL LEVELS ARE IN METRES, UNO (UNLESS NOTED OTHERWISE).

NO DIMENSION SHALL BE OBTAINED BY SCALING THE DRAWINGS.

ALL LEVELS AND SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE COMMENCEMENT OF THE WORK.

DETAIL SURVEY DATA WAS SUPPLIED BY LTS LOCKLEY, REF 41367 DRAWING DATED 16/12/2014 (REV Y AMENDED 08/07/2021).

EXISTING SERVICES WHERE SHOWN HAVE BEEN PLOTTED FROM SUPPLIED DATA AND SUCH THEIR ACCURACY CAN NOT BE GUARANTEED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORK.

ON COMPLETION OF STORMWATER INSTALLATION, ALL DISTURBED AREAS MUST BE RESTORED TO ORIGINAL CONDITION, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AND GRASSED AREAS AND ROAD PAVEMENTS, UNLESS DIRECTED OTHERWISE.

## TREE PROTECTION/REMOVAL

REFER TO TREE PROTECTION PLAN / ARBORIST REPORT BY OTHERS FOR DETAILS OF TREES TO BE RETAINED / REMOVED.

## LANDSCAPING

REFER TO DRAWINGS BY OTHERS FOR DETAILS OF PROPOSED LANDSCAPING TREATMENT.

IF NO LANDSCAPING PLANS EXIST OR PLANS DO NOT SPECIFY GENERAL SURFACE STABILISATION THEN ALL DISTURBED SURFACE TO BE TEMPORARILY STABILISED WITH HYDROMULCH UPON COMPLETION OF WORKS. A 500mm STRIP OF TURF (CT2 COUCH) IS TO BE PLACED BEHIND ALL NEW KERB.

## STORMWATER DRAINAGE

ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS DRAWING HAVE BEEN PREPARED FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY. ALL MEASURES WILL BE SUBJECT TO DETAIL DESIGN AT THE CONSTRUCTION CERTIFICATE STAGE AND MAY BE SUBJECT TO VARIATION PROVIDED THAT THE DESIGN INTENT IS MAINTAINED.

THE STORMWATER DRAINAGE IS DESIGNED IN ACCORDANCE WITH COUNCILS DEVELOPMENT ENGINEERING DESIGN GUIDELINES AND STORMWATER DISPOSAL POLICY;

## SIGNAGE AND LINEMARKING

ALL SIGNAGE TO BE IN ACCORDANCE WITH AS 1742 AND TfNSW SPECIFICATIONS AND GUIDELINES.

ALL PAVEMENT MARKINGS TO BE IN ACCORDANCE WITH AS1742 AND TfNSW SPECIFICATIONS AND GUIDELINES.

## CONCEPT SOIL & WATER MANAGEMENT

1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH RELEVANT ORDINANCES AND REGULATIONS, NOTE IN PARTICULAR THE REQUIREMENTS OF LANDCOMS MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION' (THE 'BLUE BOOK'). THIS SOIL AND WATER MANAGEMENT PLAN DETAILS THE ACTIONS TO BE TAKEN FOR THE MANAGEMENT AND DEWATERING OF STORMWATER DURING CONSTRUCTION OF THE PROPOSED BUILDING.
2. INSTALL SEDIMENT PROTECTION FILTERS ON ALL NEW AND EXISTING STORMWATER INLET PITS IN ACCORDANCE WITH EITHER THE MESH AND GRAVEL INLET FILTER DETAIL SD6-11 OR THE GEOTEXTILE INLET FILTER DETAIL SD6-12 OF THE 'BLUE BOOK'.
3. ESTABLISH ALL REQUIRED SEDIMENT FENCES IN ACCORDANCE WITH DETAIL SD6-8 OF THE 'BLUE BOOK'.
4. INSTALL SEDIMENT FENCING AROUND INDIVIDUAL BUILDING ZONES/AREAS AS REQUIRED AND AS DIRECTED BY THE SUPERINTENDENT.
5. ALL TRENCHES INCLUDING ALL SERVICE TRENCHES AND SWALE EXCAVATION SHALL BE SIDE-CAST TO THE HIGH SIDE AND CLOSED AT THE END OF EACH DAYS WORK.
6. THE CONTRACTOR SHALL ENSURE THAT ALL VEGETATION (TREE, SHRUB & GROUND COVER) WHICH IS TO BE RETAINED SHALL BE PROTECTED DURING THE DURATION OF CONSTRUCTION. REFER ARCHITECTS PLANS FOR TREES TO BE KEPT.
7. ALL VEGETATION TO BE REMOVED SHALL BE MULCHED ONSITE AND SPREAD/STOCKPILED AS DIRECTED BY THE SUPERINTENDENT.
8. STRIP TOPSOIL IN AREAS DESIGNATED FOR STRIPPING AND STOCKPILE FOR RE-USE AS REQUIRED. ANY SURPLUS MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN ACCORDANCE WITH EPA GUIDELINES.
9. CONSTRUCT AND MAINTAIN ALL MATERIAL STOCKPILES IN ACCORDANCE WITH DETAIL SD4-1 OF THE 'BLUE BOOK' (INCLUDING CUT-OFF SWALES TO THE HIGH SIDE AND SEDIMENT FENCES TO THE LOW SIDE).
10. ENSURE STOCKPILES DO NOT EXCEED 2.0m HIGH. PROVIDE WIND AND RAIN EROSION PROTECTION AS REQUIRED IN ACCORDANCE WITH THE 'BLUE BOOK'.
11. PROVIDE WATER TRUCKS OR SPRINKLER DEVICES DURING CONSTRUCTION AS REQUIRED TO SUPPRESS DUST.
12. ONCE CUT/FILL OPERATIONS HAVE BEEN FINALIZED ALL DISTURBED AREAS THAT ARE NOT BEING WORKED ON SHALL BE RE-VEGETATED AS SOON AS IS PRACTICAL.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING A DETAILED WRITTEN RECORD OF ALL EROSION & SEDIMENT CONTROLS ON-SITE DURING THE CONSTRUCTION PERIOD. THIS RECORD SHALL BE UPDATED ON A DAILY BASIS & SHALL CONTAIN DETAILS ON THE CONDITION OF CONTROLS AND ANY/ ALL MAINTENANCE, CLEANING & BREACHES. THIS RECORD SHALL BE KEPT ON-SITE AT ALL TIMES AND SHALL BE MADE AVAILABLE FOR INSPECTION BY THE PRINCIPAL CERTIFYING AUTHORITY AND THE SUPERINTENDENT DURING NORMAL WORKING HOURS.
14. GROUNDWATER SEEPAGE RATES AND QUALITY TO BE MONITORED AND TREATED IF REQUIRED DURING CONSTRUCTION IN ACCORDANCE WITH REQUIREMENTS OF SUPERVISING GEOTECHNICAL ENGINEER.

## STANDARD DETAILS

THE DETAILS LISTED BELOW ARE A GUIDE TO PROVIDE AN INDICATION OF THE STANDARD DETAILS TO BE ADOPTED WITHIN THE DEVELOPMENT FOR KEY CIVIL ENGINEERING ELEMENTS. IT IS NOT INTENDED AS AN EXHAUSTIVE LIST OF 'FOR CONSTRUCTION' DETAILS. ALL MEASURES WILL BE SUBJECT TO DETAIL DESIGN AT THE CONSTRUCTION CERTIFICATE STAGE AND MAY BE SUBJECT TO VARIATION PROVIDED THAT THE DESIGN INTENT IS MAINTAINED.

CITY OF PARRAMATTA COUNCIL DETAILS

| COMPONENT | DWG REFERENCE | DRAWING TITLE |
|---|---|---|
| KERBS AND LAYBACKS | DS1 | KERBS AND LAYBACKS |
| KERB RAMPS | DS4 | KERB RAMP |
| MAINTENANCE ACCESS | DS9 | HEAVY DUTY VEHICLE CROSSING |
| ROUNDABOUT CENTRE ISLAND | DS17 | ROUNDABOUT CENTRE ISLAND AND ANNULUS DETAIL |
| STORMWATER PITS | DS21 | STANDARD KERB INLET PIT (ON GRADE) |
| | DS23 | STANDARD SURCHARGE PIT |
| | DS24 | GRATED SAG PIT USING PRECAST LINTEL |
| | DS26 | STANDARD JUNCTION PIT |
| | DS27 | STANDARD LETTERBOX PIT |
| | DS28 | EXTENDED CHAMBER GULLY PIT (TO FRONT OR REAR) |
| TRAFFICABLE PAVEMENTS | DS47 | TYPICAL SECTIONS - ROAD PAVEMENTS |

VERIFIER:
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

BEFORE YOU DIG www.byda.com.au

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

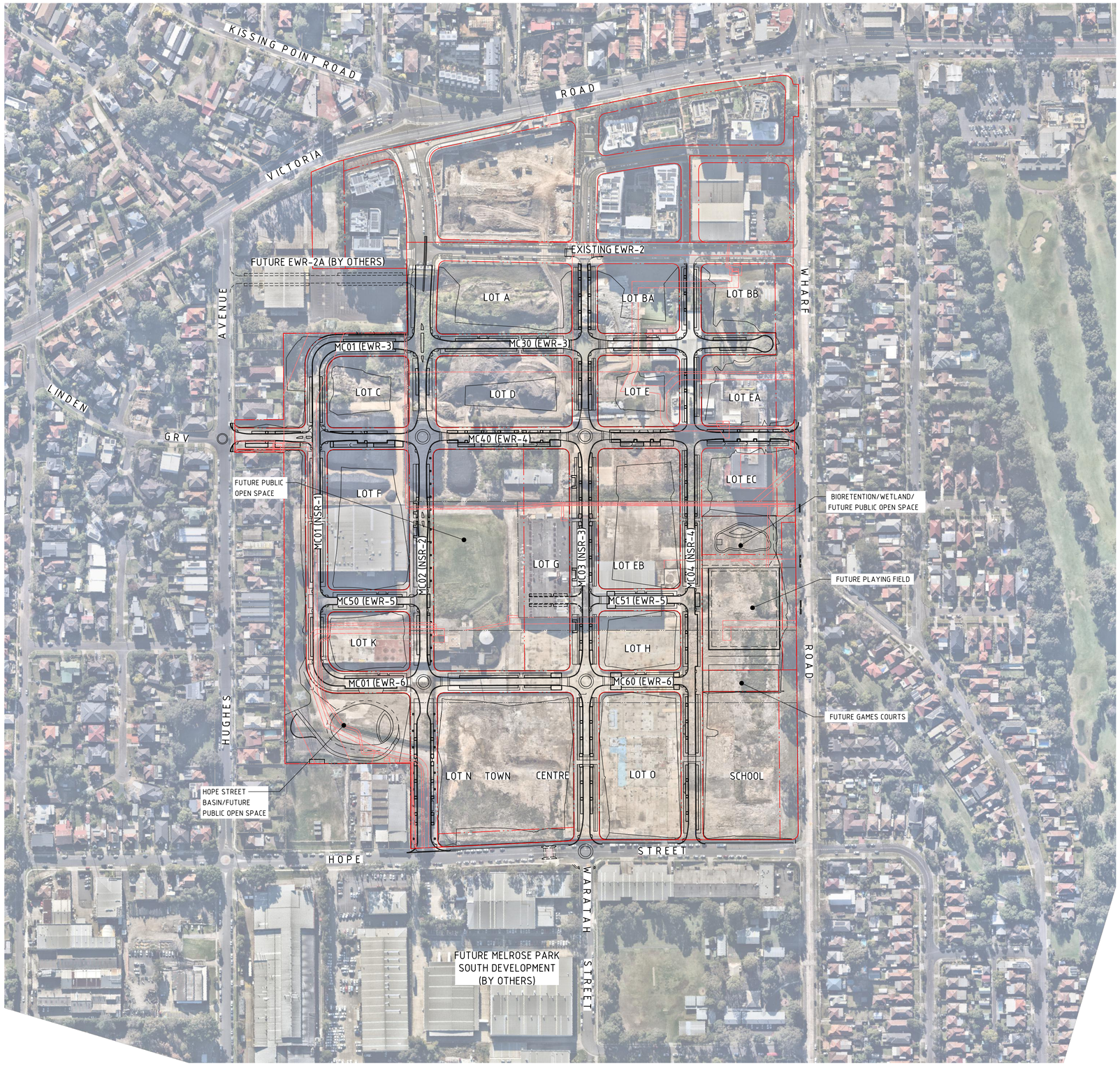
PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**SPECIFICATION NOTES**

JOB NUMBER **150077-60**
DRAWING NUMBER **C01.02**
REVISION **06**
DRAWING SHEET SIZE = A1

Plotted: 7/10/2024 8:08:57 AM By: Andrew Rivett File Name: J:\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077-60 CADD\150077-60_C01.02.dwg




## LEGEND

- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EXISTING EASEMENT

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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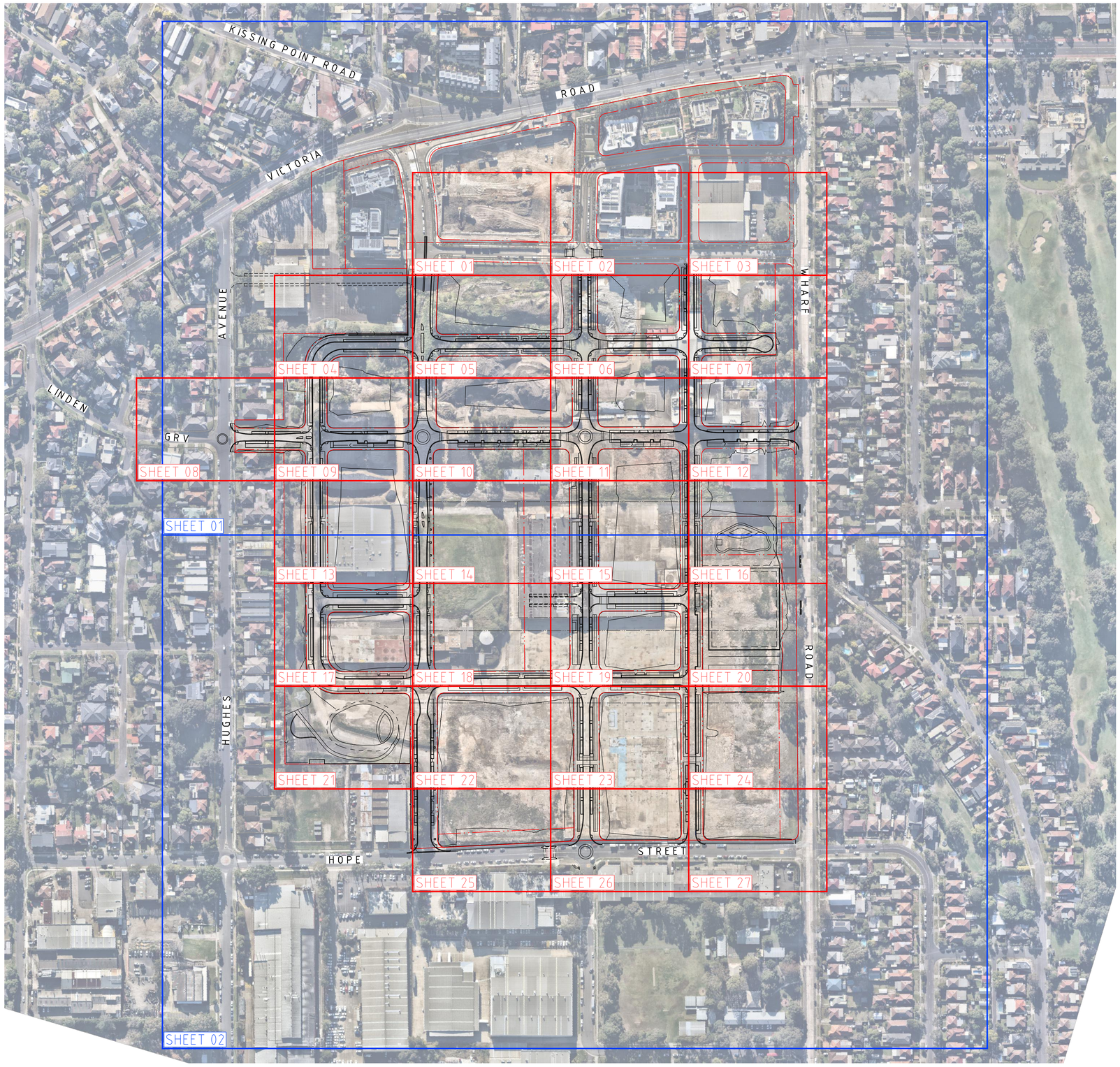
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
GENERAL ARRANGEMENT PLAN

JOB NUMBER 150077-60
DRAWING NUMBER C01.15
REVISION 08
DRAWING SHEET SIZE = A1

Plotted: 19 OCT 2023 - 3:08PM | Plotted By: Adam Rivett | File: C:\Users\adam.rivett\OneDrive - Northrop\Documents\150077 Melrose Park Infrastructure DA - 2021\3D Drawings\Civil\150077_GA_C01.15.dwg




## LEGEND

- BOUNDARY LINE
- EXISTING BOUNDARY LINE
- SHEET LAYOUT 1:200
- SHEET LAYOUT 1:1000

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DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
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| 07 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SHEET LAYOUT PLAN

JOB NUMBER 150077-60
DRAWING NUMBER C01.21
REVISION 08
DRAWING SHEET SIZE = A1

Plotted: Fri,13/10/2023,08:07:49 AM - Melrose Park Infrastructure DA - 2021\150077-60 Melrose Park Infrastructure DA\Drawings\Civil\150077-60 CIVIL\150077-60_C01.21.dwg

FOR CONTINUATION REFER TO SHEET 02

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING CONTOURS
- SEDIMENT FENCE
- SECURITY FENCE
- DIVERSION DRAIN (DIRTY)
- STABILISED SITE ACCESS
- STOCKPILE
- SEDIMENT BASIN
- BASIN 1 CATCHMENT
- BASIN 1 CATCHMENT (UNDISTURBED)
- BASIN 2 CATCHMENT
- BASIN 3 CATCHMENT
- BASIN 4 CATCHMENT
- BASIN 5 CATCHMENT

## GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR SEDIMENT AND SOIL EROSION CONTROL GENERAL REQUIREMENTS.
2. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL / RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
3. ALL SEDIMENT AND SOIL EROSION CONTROL MEASURES TO BE INSTALLED IN ACCORDANCE WITH THE 'BLUE BOOK'. CONTRACTOR TO ENSURE THESE MEASURES ARE IN PLACE AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION WORKS.
4. CONTRACTOR TO PROVIDE 'WIRE MESH AND GRAVEL SEDIMENT FILTER' TO ALL PITS IN PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
5. CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
6. INLET FILTERS NOT SHOWN ON PLAN FOR CLARITY.
7. REFER DRAWING C02.11 FOR CONCEPT SEDIMENT CALCULATIONS

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**SEDIMENT AND SOIL EROSION PLAN SHEET 01**

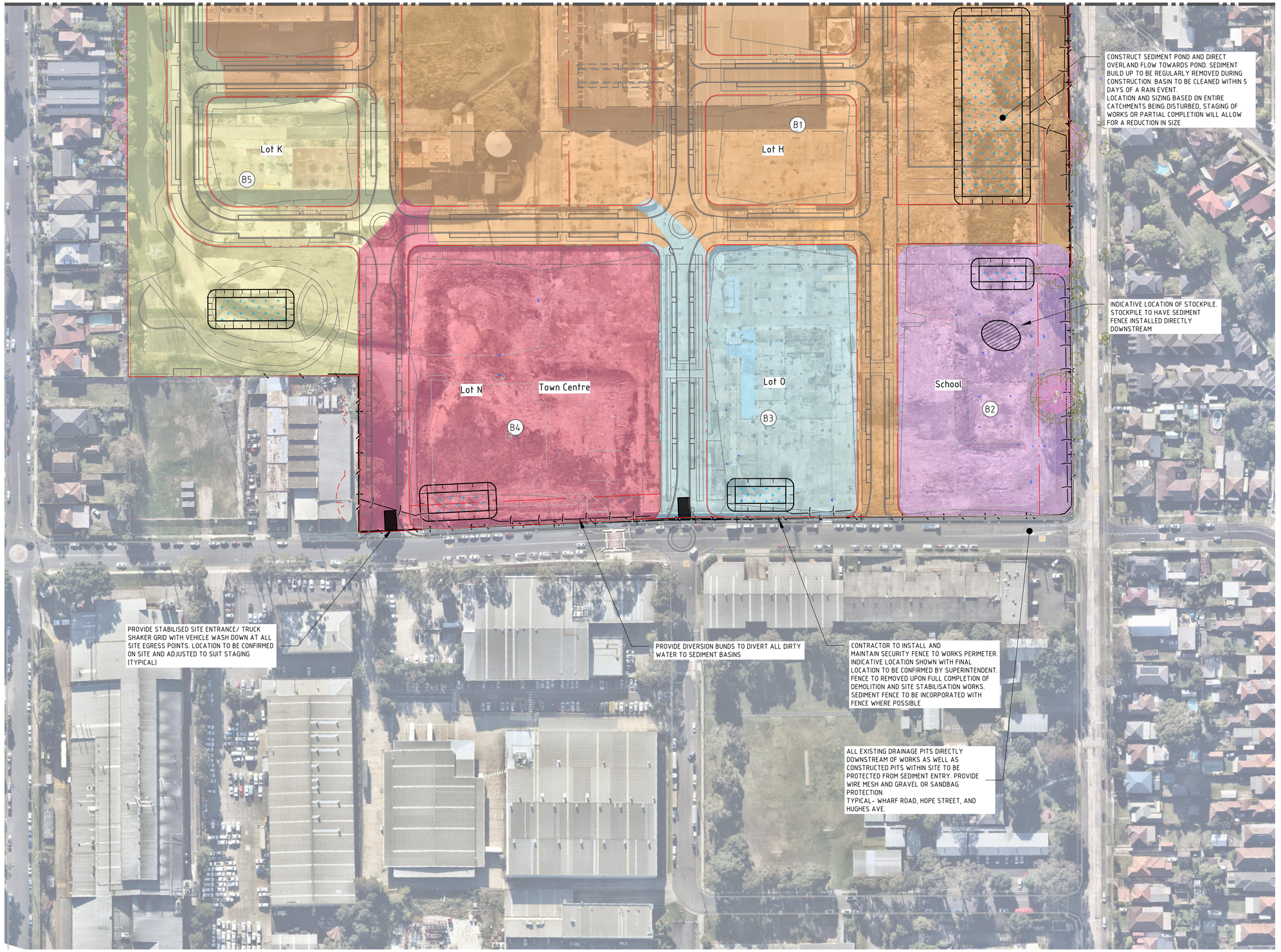
JOB NUMBER **150077-60**

DRAWING NUMBER **C02.01** REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:08:00 AM By: Brendan Mazza File Name: J:\150077-60 Melrose Park Infrastructure DA - 2021\10-Drawings\02-Civil\150077-60 CAD\01-Civil\150077-60_C02.01.dwg

FOR CONTINUATION REFER TO SHEET 01




## LEGEND

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- EXISTING BOUNDARY LINE
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- EXISTING CONTOURS
- SEDIMENT FENCE
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## GENERAL NOTES:

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4. CONTRACTOR TO PROVIDE 'WIRE MESH AND GRAVEL SEDIMENT FILTER' TO ALL PITS IN PAVED / ROAD AREAS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'.
5. CONTRACTOR TO PROVIDE 'GEOTEXTILE INLET FILTER TRAPS' TO ALL STORMWATER DRAINAGE INLETS (BOTH PROPOSED AND EXISTING) IN ACCORDANCE WITH THE 'BLUE BOOK'
6. INLET FILTERS NOT SHOWN ON PLAN FOR CLARITY
7. REFER DRAWING C02.11 FOR CONCEPT SEDIMENT CALCULATIONS

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**SEDIMENT AND SOIL EROSION PLAN SHEET 02**

JOB NUMBER **150077-60**

DRAWING NUMBER **C02.02** REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 16/2023 10:08:11 PM By: Alexandra Rivett File Name: C:\Users\arivett\Documents\150077-60 Melrose Park Infrastructure DA - 2023\Drawings\C-Civil\150077-60 CALCULATIONS\150077-60_C02.01.dwg

## 1. Site Data Sheet

**Site name:** 150077- Melrose Park Infrastructure DA

**Site location:** Melrose Park

**Precinct:**

**Description of site:** Infrastructure DA- Demolition, Roads and Stormwater

| Site area | Site | | | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | B1 | B2 | B3 | B4 | B5 | | |
| Total catchment area (ha) | 18.064 | 1.2175 | 1.4144 | 2.2125 | 3.2013 | | |
| Disturbed catchment area (ha) | 16.291 | 1.2175 | 1.4144 | 2.2125 | 3.2013 | | |

**Soil analysis**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Soil landscape | | | | | | | DIPNR mapping (if relevant) |
| Soil Texture Group | C | C | C | C | C | | Sections 6.3.3(c), (d) and (e) |

**Rainfall data**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Design rainfall depth (days) | 5 | 5 | 5 | 5 | 5 | | See Sections 6.3.4 (d) and (e) |
| Design rainfall depth (percentile) | 80 | 80 | 80 | 80 | 80 | | See Sections 6.3.4 (f) and (g) |
| x-day, y-percentile rainfall event | 4/5 | 4/5 | 4/5 | 4/5 | 4/5 | | See Section 6.3.4 (h) |
| Rainfall intensity: 2-year, 6-hour storm | 10.3 | 10.3 | 10.3 | 10.3 | 10.3 | | See IFD chart for the site |
| Rainfall erosivity (R-factor) | 2330 | 2330 | 2330 | 2330 | 2330 | | Automatic calculation from above data |

**Peak flow calculations, 1**

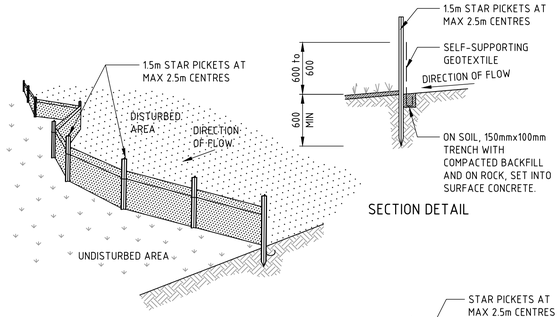
| Site | A (ha) | tc (mins) | Rainfall intensity, I, mm/hr | | | | | | C10 |
|---|---|---|---|---|---|---|---|---|---|
| | | | 1 yr,2o | 5 yr,2o | 10 yr,2o | 20 yr,2o | 50 yr,2o | 100 yr,2o | |
| B1 | 18.064 | 24 | 75.7 | 131 | 151 | 171 | 198 | 219 | 0.58 |
| B2 | 1.2175 | 9 | 75.7 | 131 | 151 | 171 | 198 | 219 | 0.58 |
| B3 | 1.4144 | 9 | 75.7 | 131 | 151 | 171 | 198 | 219 | 0.58 |
| B4 | 2.2125 | 11 | 69.7 | 102 | 119 | 135 | 157 | 173 | 0.58 |
| B5 | 3.2013 | 12 | 64.7 | 94.8 | 110 | 125 | 145 | 161 | 0.58 |

**Peak flow calculations, 2**

| ARI yrs | Frequency factor (Fy) | Peak flows | | | | | | Comment |
|---|---|---|---|---|---|---|---|---|
| | | B1 ($m^3/s$) | B2 ($m^3/s$) | B3 ($m^3/s$) | B4 ($m^3/s$) | B5 ($m^3/s$) | (m3/s) | |
| 1 yr,2o | 0.62 | 1.367 | 0.092 | 0.107 | 0.154 | 0.207 | | |
| 5 yr,2o | 0.88 | 3.358 | 0.226 | 0.263 | 0.320 | 0.431 | | |
| 10 yr,2o | 1 | 4.398 | 0.296 | 0.344 | 0.425 | 0.568 | | |
| 20 yr,2o | 1.12 | 5.578 | 0.376 | 0.437 | 0.539 | 0.723 | | |
| 50 yr,2o | 1.249 | 7.203 | 0.485 | 0.564 | 0.700 | 0.935 | | |
| 100 yr,2o | 1.38 | 8.803 | 0.593 | 0.689 | 0.852 | 1.147 | | |

**Total Basin Volume**

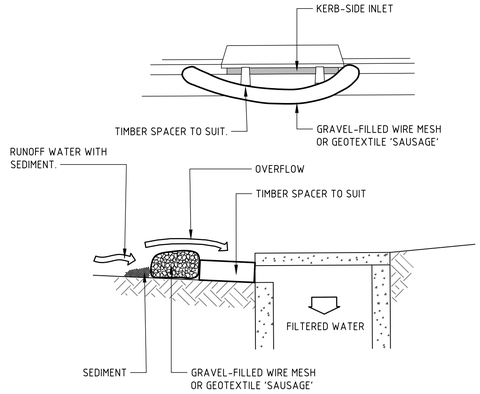
| Site | $Q_{1c,6.25}$ ($m^3/s$) | Area factor | Basin surface area ($m^2$) | Depth of settling zone (m) | Settling zone volume ($m^3$) | Sediment storage volume ($m^3$) | Total basin volume ($m^3$) | Basin shape | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | L:W Ratio | Length (m) | Width (m) |
| B1 | 0.684 | 4100 | 2802 | 0.6 | 1681 | 1681 | 3363 | 3 | 91.7 | 30.6 |
| B2 | 0.046 | 4100 | 189 | 0.6 | 113 | 113 | 227 | 3 | 23.8 | 7.9 |
| B3 | 0.054 | 4100 | 219 | 0.6 | 132 | 132 | 263 | 3 | 25.7 | 8.6 |
| B4 | 0.077 | 4100 | 316 | 0.6 | 190 | 190 | 379 | 3 | 30.8 | 10.3 |
| B5 | 0.104 | 4100 | 424 | 0.6 | 255 | 255 | 509 | 3 | 35.7 | 11.9 |




### CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

## SEDIMENT FENCE

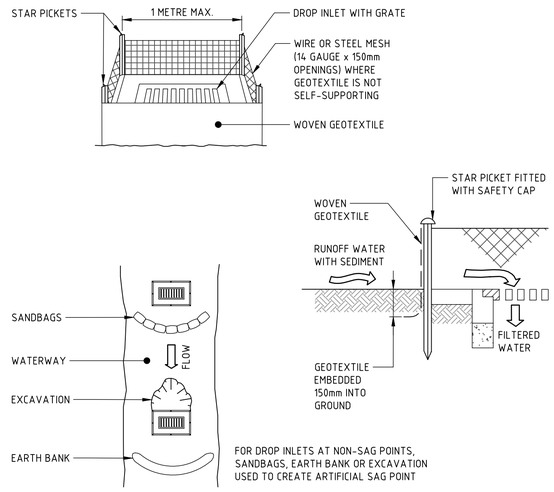



NOTE:THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN APPROVED SWMP/ESCP.

### CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

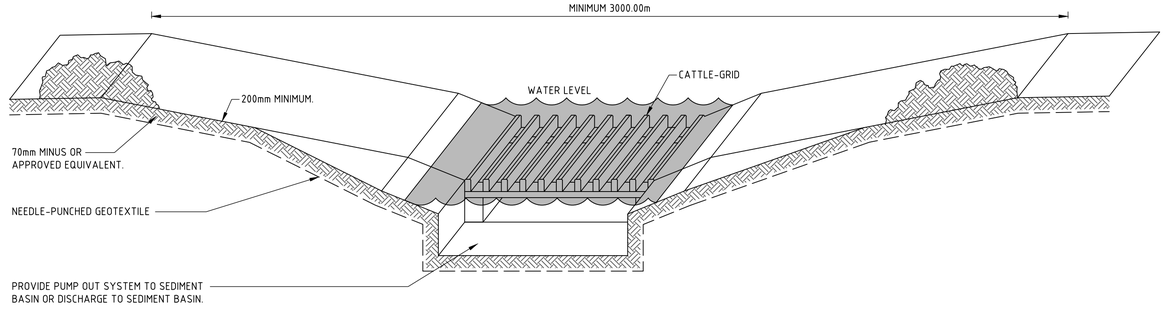
## WIRE MESH AND GRAVEL SEDIMENT FILTER




### CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

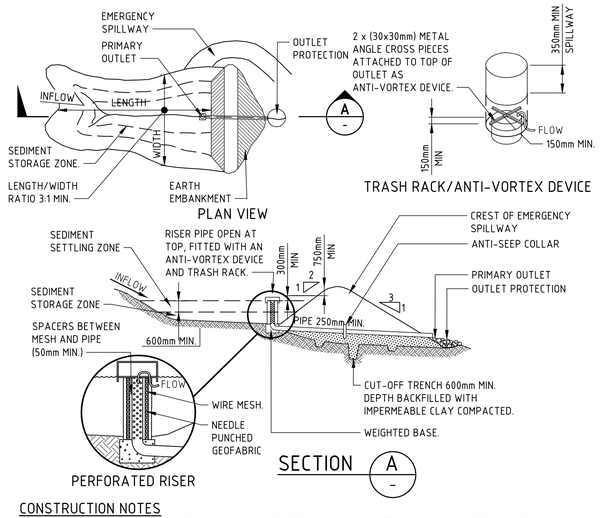
## GEOTEXTILE INLET FILTER TRAPS




### CONSTRUCTION NOTES

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUB-GRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200mm THICK PAD OVER GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. AGGREGATE SIZE NOT TO EXCEED 75mm.
4. ENSURE THE STRUCTURE IS AT LEAST 15m LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3m WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO SEDIMENT FENCE.

## TRUCK SHAKER GRID




### CONSTRUCTION NOTES

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. FORM A CUT OFF TRENCH UNDER THE CENTRELINE OF THE EMBANKMENT 600mm DEEP AND 1200mm WIDE, EXTENDING TO A POINT ON THE WATERCOURSE WALL ABOVE THE RISER SILL LEVEL.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
4. SELECT FILL ACCORDING TO THE SWMP THAT IS FREE FROM ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND THE COMPACTED FILL TO THE EXISTING SUBSTRATE.
6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. INSTALL THE PIPE OUTLET WITH SEEPAGE COLLARS AS SPECIFIED IN THE SWMP AND STANDARD DRAWING 6-3B.
8. FORM BATTER GRADES AT 2(H):1(V) UPSTREAM AND 3(H):1(V) DOWNSTREAM OR AS SPECIFIED IN THE SWMP.

(APPLIES TO 'TYPE C' SOILS ONLY)

## EARTH BASIN - DRY

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

SEDIMENT AND SOIL EROSION DETAILS SHEET 01

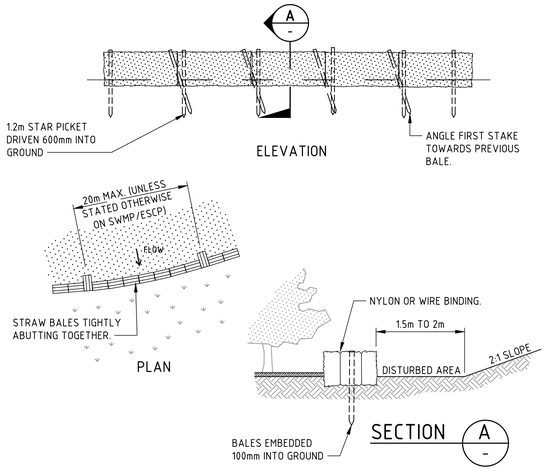
JOB NUMBER: 150077-60

DRAWING NUMBER: C02.11

REVISION: 07

DRAWING SHEET SIZE = A1

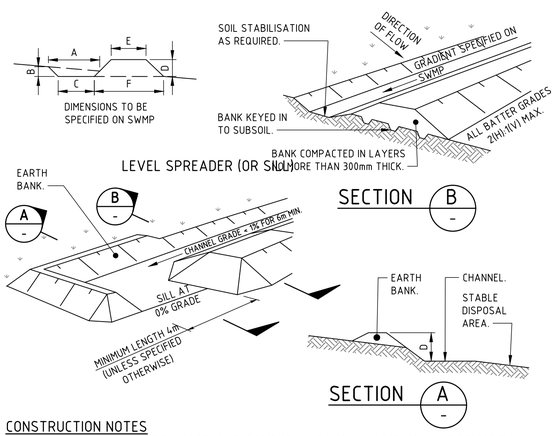
Plotted: 6/10/2023 10:07:48 AM By: Brooke Mazza File Name: R:\Jobs\150077\02 - Melrose Park Infrastructure DA - 2021\3-Drawings\Civil\150077-02-C02.11.dwg




## CONSTRUCTION NOTES

1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

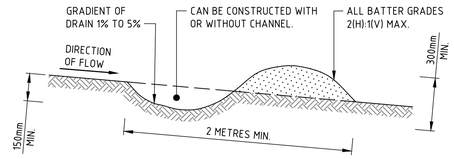
# STRAW BALE FILTER




## CONSTRUCTION NOTES

1. CONSTRUCT AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP, NORMALLY BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V-SHAPED, AT THE DIMENSIONS SHOWN ON THE SWMP.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION FOLLOWING TABLE 5.2 IN LANDCOM (2004).
7. WHERE DISCHARGING TO ERODIBLE LANDS, ENSURE THEY OUTLET THROUGH A PROPERLY CONSTRUCTED LEVEL SPREADER.
8. CONSTRUCT THE LEVEL SPREADER AT THE GRADIENT SPECIFIED ON THE ESCP OR SWMP, NORMALLY LESS THAN 1 PERCENT OR LEVEL.
9. WHERE POSSIBLE, ENSURE THEY DISCHARGE WATERS ONTO EITHER STABILISED OR UNDISTURBED DISPOSAL SITES WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED. APPROVAL MIGHT BE REQUIRED TO DISCHARGE INTO OTHER SUBCATCHMENTS.

# EARTH BANK - HIGH FLOWS




## CONSTRUCTION NOTES

1. BUILD WITH GRADIENTS BETWEEN 1 AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

NOTE: ONLY TO BE USED AS TEMPORARY BANK
WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

# DRAINAGE SWALE - LOW FLOW

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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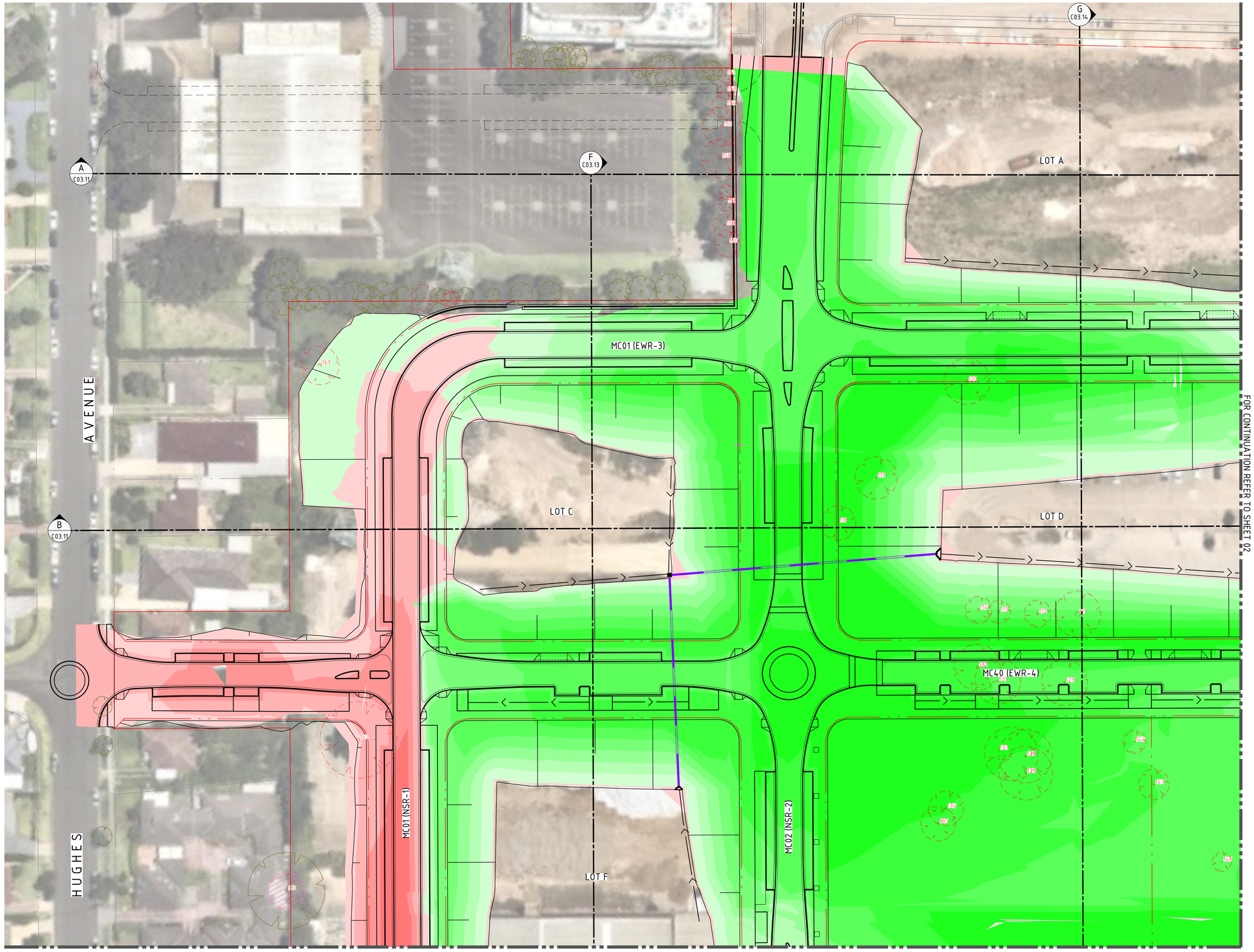
PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**SEDIMENT AND SOIL EROSION DETAILS SHEET 02**

JOB NUMBER **150077-60**
DRAWING NUMBER **C02.12**
REVISION **06**
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 10:00:17 AM - By: Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\Plots\150077-60_C02.12.dwg




## LEGEND

DEPTH OF CUT

- < - 8m
- - 8m TO - 6m
- - 6m TO - 5m
- - 5m TO -4m
- - 4m TO - 3m
- - 3m TO -2m
- - 2m TO -1m
- - 1m TO 0m

DEPTH OF FILL

- 0m TO 1m
- 1m TO 2m
- 2m TO 3m
- 3m TO 4m
- 4m TO 5m
- 5m TO 6m
- 6m TO 8m
- > 8m

PROPOSED BOUNDARY LINE

EXISTING BOUNDARY LINE

TPZ

EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ

TEMPORARY STORMWATER

## GENERAL NOTES:

1. CUT/FILL SHADING INDICATES CHANGE IN LEVELS FROM EXISTING (SURVEY) SURFACE LEVEL TO DESIGN FINISHED SURFACE LEVEL.
2. MAXIMUM BATTER SLOPES ARE AS FOLLOWS U.N.O.
   - 2.1. PERMANENT BATTERS: 1(V):4(H)
   - 2.2. TEMPORARY BATTERS: 1(V):3(H)
3. PRELIMINARY BULK EARTHWORKS VOLUMES ARE BASED ON THE FOLLOWING DEPTHS FROM FINISHED SURFACE LEVELS;
   - 3.1. ROAD PAVEMENT 360-490 mm
   - 3.2. FOOTPATHS / VERGES 510-640mm
   - 3.3. BATTERS 150 mm
4. APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS;
   - 4.1. CUT 90,980 cu.m
   - 4.2. FILL 299,445 cu.m
   - 4.3. BALANCE 208,465 cu.m
   - 4.4. NOTE: SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN ABOVE CALCULATIONS.
   - 4.5. EARLY WORKS TO BE STAGED TO UTILISE MATERIAL EXCAVATED FROM ADJACENT BUILDING DEVELOPMENTS AS FILL - NO MATERIAL IMPORT REQUIRED. DETAILED STAGING TO BE DEVELOPED AT CONSTRUCTION CERTIFICATE STAGE
5. STRIP EXISTING TOPSOIL IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER / REPORT. FOR THE PURPOSES OF EARTHWORKS CALCULATIONS A UNIFORM TOPSOIL STRIPPING DEPTH OF 100mm HAS BEEN ASSUMED.
6. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
7. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS; ie SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND THE LIKE. CONTRACTOR IS TO ALLOW FOR REMOVAL OF ALL EXCESS MATERIAL GENERATED BY THE WORKS.

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

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|---|---|---|---|---|---|
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | AP | | AR | 03.02.22 |
| 05 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 06 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 07 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 08 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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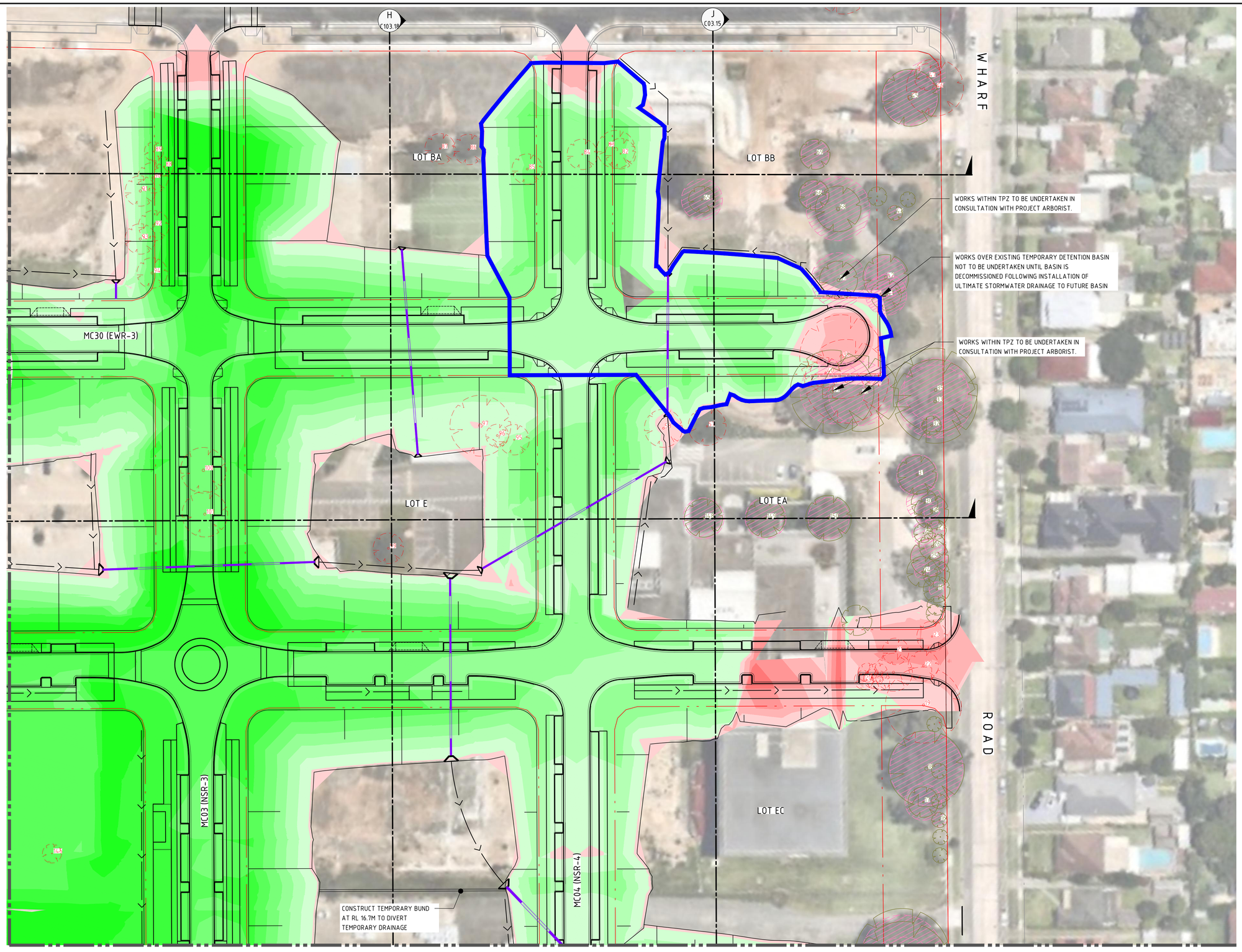
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CUT AND FILL PLAN - SHEET 01

JOB NUMBER 150077-60
DRAWING NUMBER C03.01
REVISION 08
DRAWING SHEET SIZE = A1

Plotted: 20/10/2023 7:10:07 AM - Melrose Park Infrastructure DA - 2023 Drawings\Civil\150077-60 CAD\01 CAD\150077-60_C03.01.dwg




## LEGEND

### DEPTH OF CUT

| | |
|---|---|
| | < - 8m |
| | - 8m TO - 6m |
| | - 6m TO - 5m |
| | - 5m TO -4m |
| | - 4m TO - 3m |
| | - 3m TO -2m |
| | - 2m TO -1m |
| | - 1m TO 0m |

### DEPTH OF FILL

| | |
|---|---|
| | 0m TO 1m |
| | 1m TO 2m |
| | 2m TO 3m |
| | 3m TO 4m |
| | 4m TO 5m |
| | 5m TO 6m |
| | 6m TO 8m |
| | > 8m |

PROPOSED BOUNDARY LINE

EXISTING BOUNDARY LINE

TPZ

EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ

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## GENERAL NOTES:

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DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | AP | | AR | 03.02.22 |
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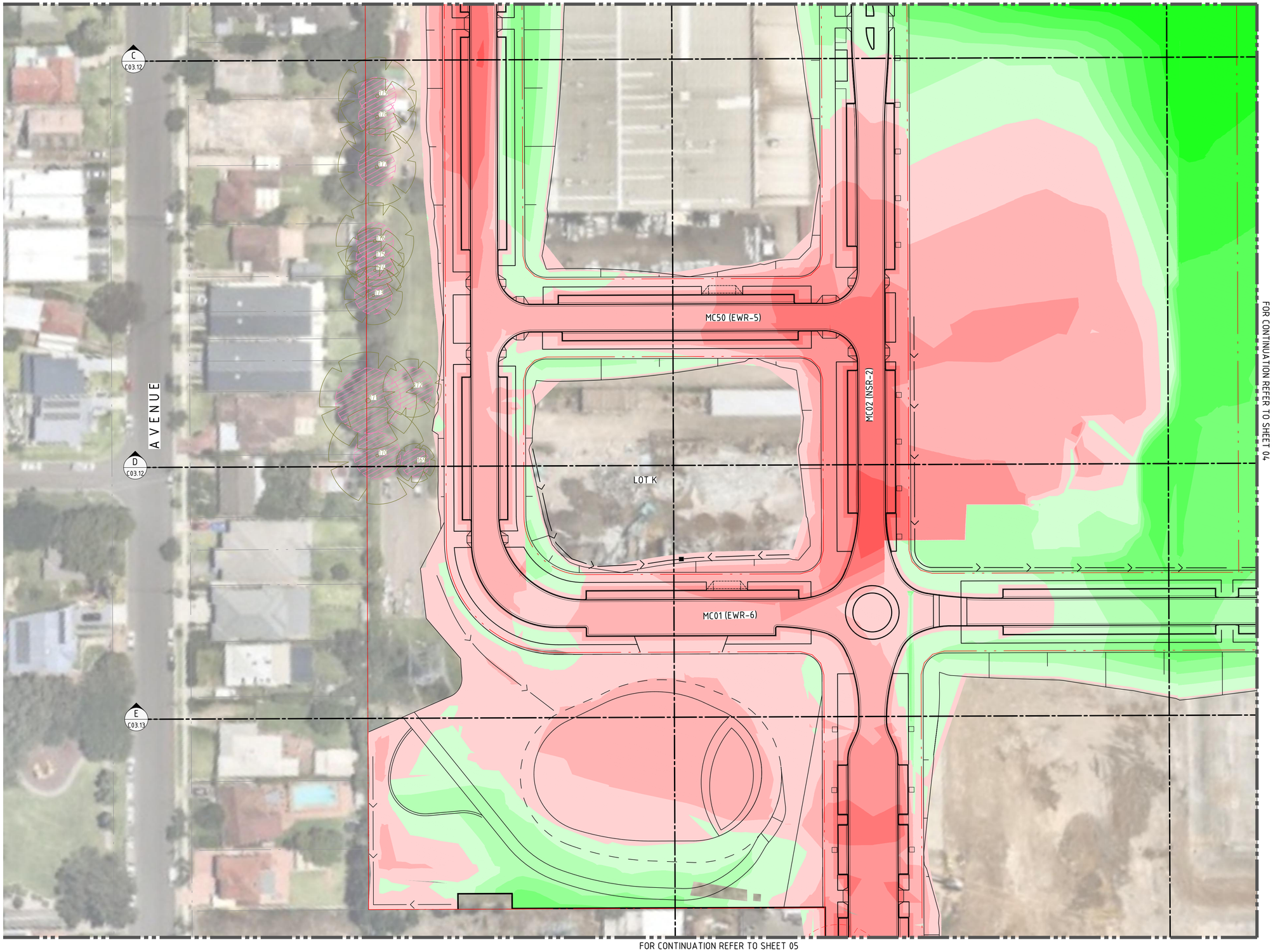
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CUT AND FILL PLAN - SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C03.02
REVISION 08
DRAWING SHEET SIZE = A1

FOR CONTINUATION REFER TO SHEET 01




FOR CONTINUATION REFER TO SHEET 04

FOR CONTINUATION REFER TO SHEET 05

## LEGEND

DEPTH OF CUT

- < - 8m
- - 8m TO - 6m
- - 6m TO - 5m
- - 5m TO -4m
- - 4m TO - 3m
- - 3m TO -2m
- - 2m TO -1m
- - 1m TO 0m

DEPTH OF FILL

- 0m TO 1m
- 1m TO 2m
- 2m TO 3m
- 3m TO 4m
- 4m TO 5m
- 5m TO 6m
- 6m TO 8m
- > 8m

PROPOSED BOUNDARY LINE

EXISTING BOUNDARY LINE

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TEMPORARY STORMWATER

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DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 15.01.23 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:1000 @ A1

0 10 20 30 40 50m

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PROJECT

**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE

**CIVIL ENGINEERING PACKAGE**

**CUT AND FILL PLAN - SHEET 03**

JOB NUMBER **150077-60**

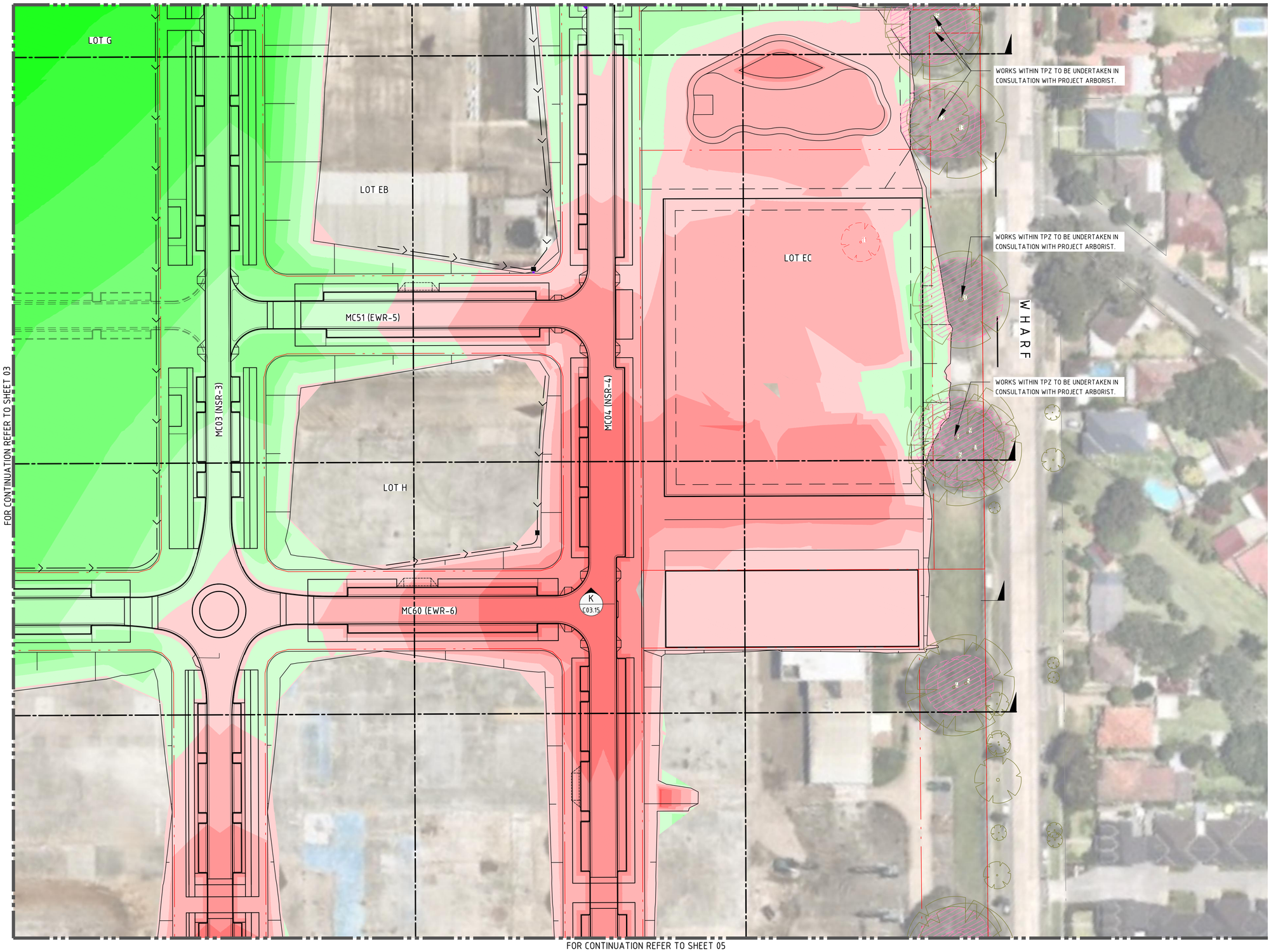
DRAWING NUMBER **C03.03**

REVISION **03**

DRAWING SHEET SIZE = A1

Plotted: 7/11/2023 10:08:17 AM By: Brianna Mazza Filename: N:\150077-60\Drawings\Civil\150077-60 CIVIL DWG\150077-60_C03.01.dwg

FOR CONTINUATION REFER TO SHEET 02




FOR CONTINUATION REFER TO SHEET 03

FOR CONTINUATION REFER TO SHEET 05

## LEGEND

### DEPTH OF CUT

| | |
|---|---|
| | < - 8m |
| | - 8m TO - 6m |
| | - 6m TO - 5m |
| | - 5m TO -4m |
| | - 4m TO - 3m |
| | - 3m TO -2m |
| | - 2m TO -1m |
| | - 1m TO 0m |

### DEPTH OF FILL

| | |
|---|---|
| 0m | TO 1m |
| 1m | TO 2m |
| 2m | TO 3m |
| 3m | TO 4m |
| 4m | TO 5m |
| 5m | TO 6m |
| 6m | TO 8m |
| | > 8m |

PROPOSED BOUNDARY LINE

EXISTING BOUNDARY LINE

EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ

TPZ

TEMPORARY STORMWATER

## GENERAL NOTES:

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DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 15.01.23 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
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SCALE 1:1000 @ A1 (0 10 20 30 40 50m)

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Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

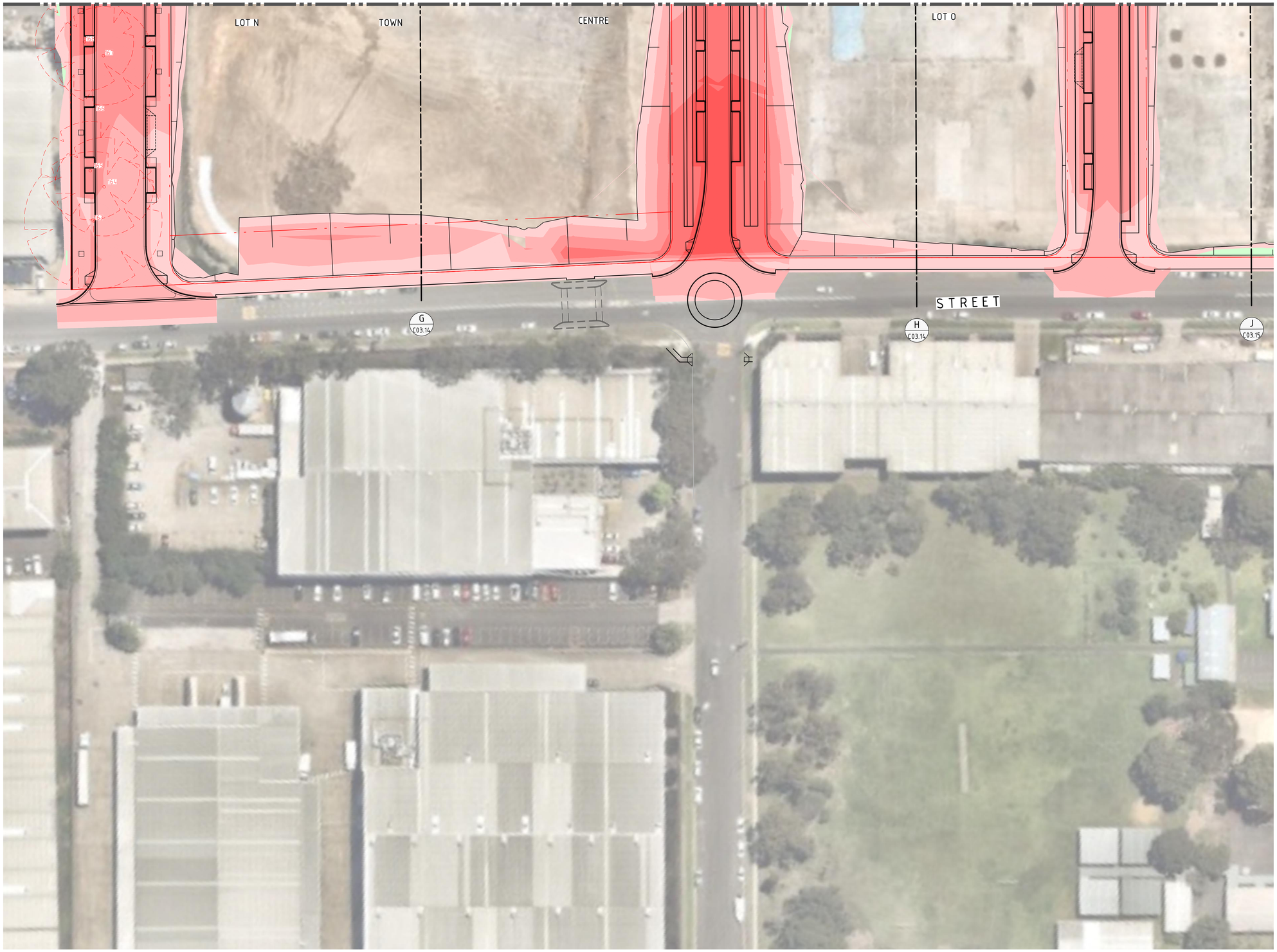
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CUT AND FILL PLAN - SHEET 04

JOB NUMBER 150077-60
DRAWING NUMBER C03.04
REVISION 03
DRAWING SHEET SIZE = A1

Plotted: 7/11/2023 10:08:11 AM By: BMazza P:\150077 Melrose Park Infrastructure DA - 2021\DA Drawings\DA Civil\150077-60 CAD\04 CAD\150077-60_C03.04.dwg

FOR CONTINUATION REFER TO SHEET 03

FOR CONTINUATION REFER TO SHEET 04




## LEGEND

DEPTH OF CUT

- < - 8m
- - 8m TO - 6m
- - 6m TO - 5m
- - 5m TO -4m
- - 4m TO - 3m
- - 3m TO -2m
- - 2m TO -1m
- - 1m TO 0m

DEPTH OF FILL

- 0m TO 1m
- 1m TO 2m
- 2m TO 3m
- 3m TO 4m
- 4m TO 5m
- 5m TO 6m
- 6m TO 8m
- > 8m

PROPOSED BOUNDARY LINE

EXISTING BOUNDARY LINE

EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ

TPZ

TEMPORARY STORMWATER

## GENERAL NOTES:

1. CUT/FILL SHADING INDICATES CHANGE IN LEVELS FROM EXISTING (SURVEY) SURFACE LEVEL TO DESIGN FINISHED SURFACE LEVEL
2. MAXIMUM BATTER SLOPES ARE AS FOLLOWS U.N.O.
   - 2.1. PERMANENT BATTERS: 1(V):4(H)
   - 2.2. TEMPORARY BATTERS: 1(V):3(H)
3. PRELIMINARY BULK EARTHWORKS VOLUMES ARE BASED ON THE FOLLOWING DEPTHS FROM FINISHED SURFACE LEVELS;
   - 3.1. ROAD PAVEMENT 360-490 mm
   - 3.2. FOOTPATHS / VERGES 510-640mm
   - 3.3. BATTERS 150 mm
4. APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS;
   - 4.1. CUT 90,980 cu.m
   - 4.2. FILL 299,445 cu.m
   - 4.3. BALANCE 208,465 cu.m
   - 4.4. NOTE: SITE STRIPPING VOLUMES HAVE NOT BEEN INCLUDED IN ABOVE CALCULATIONS.
   - 4.5. EARLY WORKS TO BE STAGED TO UTILISE MATERIAL EXCAVATED FROM ADJACENT BUILDING DEVELOPMENTS AS FILL - NO MATERIAL IMPORT REQUIRED. DETAILED STAGING TO BE DEVELOPED AT CONSTRUCTION CERTIFICATE STAGE
5. STRIP EXISTING TOPSOIL IN CONSULTATION WITH THE GEOTECHNICAL ENGINEER / REPORT. FOR THE PURPOSES OF EARTHWORKS CALCULATIONS A UNIFORM TOPSOIL STRIPPING DEPTH OF 100mm HAS BEEN ASSUMED.
6. NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
7. NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS; ie SERVICE TRENCHING, DETAILED EXCAVATION, FOOTINGS, RETAINING WALLS AND THE LIKE. CONTRACTOR IS TO ALLOW FOR REMOVAL OF ALL EXCESS MATERIAL GENERATED BY THE WORKS.

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 15.01.23 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:1000 @ A1
0 10 20 30 40 50m

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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

CUT AND FILL PLAN - SHEET 05

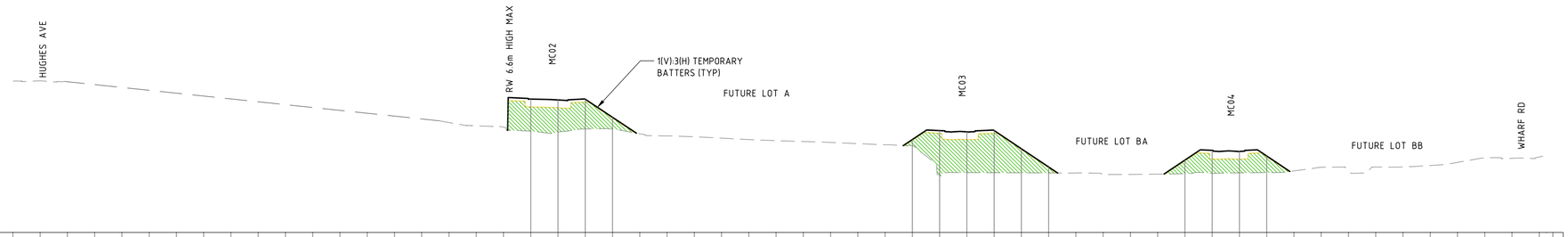
JOB NUMBER 150077-60

DRAWING NUMBER C03.05

REVISION 03

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:00:07 AM | Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-00 Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-00_C03.05.dwg

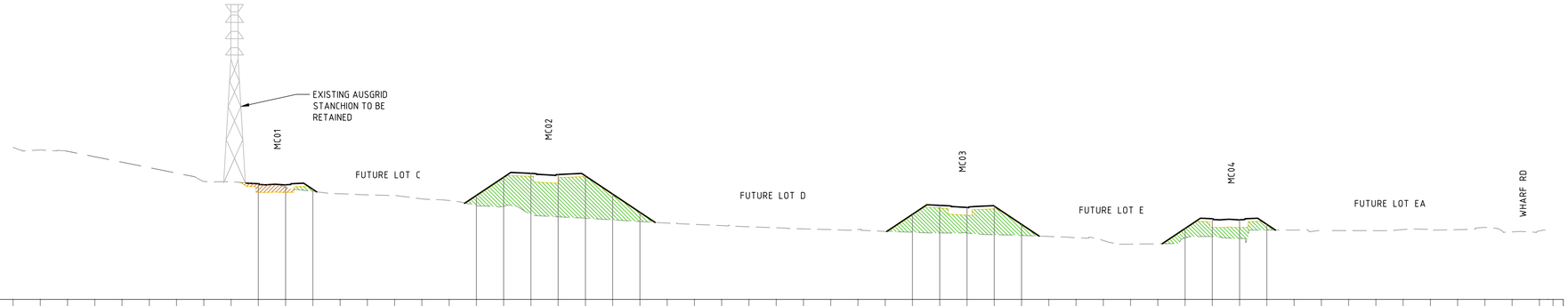



DATUM RL 11.0

| CHAINAGE | FINISHED SURFACE LEVEL | BULK EARTHWORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0 | | | |
| 10 | | | 38.772 |
| 20 | | | |
| 30 | | | |
| 40 | | | |
| 50 | | | |
| 60 | | | |
| 70 | | | |
| 80 | | | |
| 90 | | | |
| 100 | | | |
| 110 | | | |
| 120 | | | |
| 130 | | | |
| 140 | | | |
| 150 | | | |
| 160 | | | 31.13 |
| 170 | | | 30.529 |
| 180 | | | 30.272 |
| 190 | 35.428 | 33.996 | 29.553 |
| 200 | 35.266 | 33.834 | 29.373 |
| 210 | 35.4 | 34.876 | 29.956 |
| 220 | 32.087 | 31.937 | 29.943 |
| 230 | | | 29.073 |
| 240 | | | 28.671 |
| 250 | | | 28.521 |
| 260 | | | 28.268 |
| 270 | | | 28.014 |
| 280 | | | 27.804 |
| 290 | | | 27.657 |
| 300 | | | 27.481 |
| 310 | | | 27.265 |
| 320 | | | 27.067 |
| 330 | 28.014 | 27.864 | 26.887 |
| 340 | 29.653 | 29.148 | 21.553 |
| 350 | 29.431 | 27.999 | 21.965 |
| 360 | 29.662 | 29.162 | 21.942 |
| 370 | 26.326 | 26.176 | 21.918 |
| 380 | 22.99 | 22.84 | 21.895 |
| 390 | | | 21.884 |
| 400 | | | 21.594 |
| 410 | | | 21.626 |
| 420 | | | 21.687 |
| 430 | 24.252 | 24.102 | 21.778 |
| 440 | 26.041 | 24.459 | 21.827 |
| 450 | 25.843 | 24.412 | 21.911 |
| 460 | 25.006 | 24.856 | 21.963 |
| 470 | | | 22.266 |
| 480 | | | 22.925 |
| 490 | | | 22.329 |
| 500 | | | 22.982 |
| 510 | | | 23 |
| 520 | | | 23.261 |
| 530 | | | 23.831 |
| 540 | | | 24.655 |
| 550 | | | 24.573 |
| 560 | | | 24.829 |
| 562.633 | | | |

## BULK EARTHWORKS A

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1




DATUM RL 8.0

| CHAINAGE | FINISHED SURFACE LEVEL | BULK EARTHWORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0 | | | |
| 10 | | | 35.416 |
| 20 | | | 35.23 |
| 30 | | | |
| 40 | | | |
| 50 | | | |
| 60 | | | |
| 70 | | | 29.645 |
| 80 | | | 29.561 |
| 90 | 29.228 | 27.645 | 29.15 |
| 100 | 29.031 | 27.6 | 28.579 |
| 110 | 28.199 | 28.049 | 27.815 |
| 120 | | | 27.377 |
| 130 | | | 27.185 |
| 140 | | | 27.052 |
| 150 | | | 26.442 |
| 160 | | | 26.157 |
| 170 | 27.081 | 26.931 | 25.24 |
| 180 | 30.414 | 30.264 | 25.063 |
| 190 | 31.122 | 30.575 | 23.736 |
| 200 | 30.899 | 29.34 | 23.152 |
| 210 | 30.651 | 30.501 | 22.879 |
| 220 | 27.318 | 27.168 | 22.595 |
| 230 | 23.984 | 23.834 | 22.284 |
| 240 | | | 22 |
| 250 | | | 21.762 |
| 260 | | | 21.542 |
| 270 | | | 21.324 |
| 280 | | | 21.143 |
| 290 | | | 20.941 |
| 300 | | | 20.803 |
| 310 | | | 20.83 |
| 320 | | | 20.476 |
| 330 | 23.617 | 23.467 | 20.318 |
| 340 | 25.254 | 24.766 | 20.186 |
| 350 | 24.873 | 23.441 | 20.171 |
| 360 | 25.105 | 24.607 | 19.856 |
| 370 | 21.772 | 21.632 | 19.728 |
| 380 | | | 19.549 |
| 390 | | | 19.303 |
| 400 | | | 18.818 |
| 410 | | | 18.143 |
| 420 | | | 18.207 |
| 430 | 21.018 | 20.868 | 19.256 |
| 440 | 22.806 | 21.223 | 19.537 |
| 450 | 22.609 | 21.178 | 19.165 |
| 460 | 21.771 | 21.621 | 20.72 |
| 470 | | | 20.72 |
| 480 | | | |
| 490 | | | 20.628 |
| 500 | | | 20.609 |
| 510 | | | 20.818 |
| 520 | | | 20.69 |
| 530 | | | 20.796 |
| 540 | | | 21.203 |
| 550 | | | 20.377 |
| 560 | | | 20.561 |
| 563.103 | | | 20.775 |

## BULK EARTHWORKS B

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:1000 @ A1 0 10 20 30 40 50m
SCALE 1:500 @ A1 0 5 10 15 20 25m

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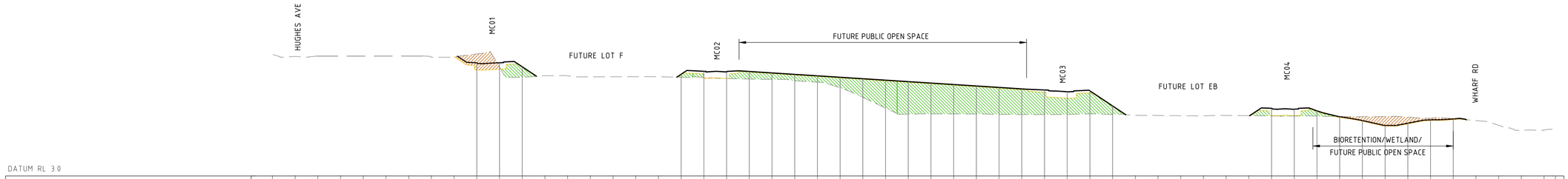
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITE SECTIONS - SHEET 01

JOB NUMBER 150077-60
DRAWING NUMBER C03.11
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 10:07:17 AM By: Ashleigh Rivett
File Name: R:\Civil\150077-60 Melrose Park Infrastructure DA - 2021\10-Drawings\02-Civil\150077-60-CA03-11.dwg

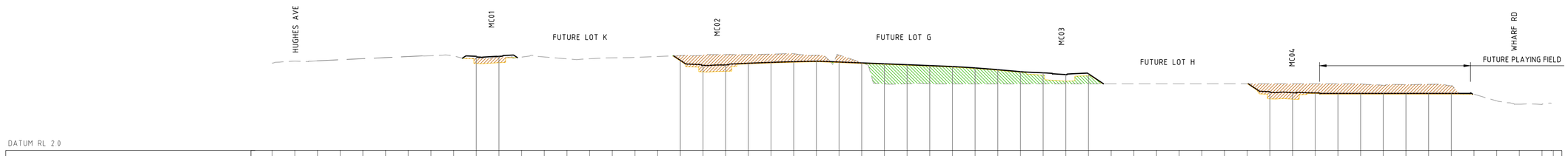



DATUM RL 3.0

| CHAINAGE | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 | 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 563.631 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | | 29.356 | | | | | | 29.224 | 29.312 | 29.909 | 27.003 | 24.803 | 25.115 | 25.092 | 24.867 | 24.881 | 24.9 | 24.879 | 24.777 | 24.744 | 24.498 | 24.388 | 24.322 | 23.999 | 23.69 | 22.478 | 20.351 | 17.977 | 16.634 | 16.703 | 16.69 | 16.677 | 16.588 | 16.562 | 16.553 | 16.557 | 16.699 | 16.559 | 16.396 | 16.346 | 16.28 | 16.261 | 16.351 | 16.294 | 16.25 | 16.215 | 16.213 | 16.102 | 16.084 | 16.117 | 15.981 | 15.728 | 15.644 | 15.218 | 14.163 | 13.078 | 13.131 | 13.296 |
| BULK EARTHWORKS SURFACE | | | | | | | | | | 26.393 | 26.563 | 26.938 | | | | | | | 25.292 | 24.534 | 24.516 | 25.905 | 25.585 | 25.264 | 24.944 | 24.623 | 24.303 | 23.983 | 23.662 | 23.342 | 23.021 | 22.701 | 22.38 | 22.058 | 21.461 | 20.153 | 21.325 | 18.293 | | | | | | | 16.338 | 16.298 | 17.208 | 15.928 | 15.076 | 14 | 14.491 | 15.228 | 15.428 | | | | | | |
| FINISHED SURFACE LEVEL | | | | | | | | | | 27.975 | 27.972 | 27.088 | | | | | | | 25.442 | 26.089 | 25.924 | 26.055 | 25.735 | 25.414 | 25.094 | 24.773 | 24.453 | 24.133 | 23.812 | 23.492 | 23.171 | 22.851 | 22.53 | 22.208 | 21.97 | 21.585 | 21.776 | 18.443 | | | | | | | 17.921 | 17.734 | 17.358 | 16.078 | 15.226 | 14.15 | 14.641 | 15.378 | 15.578 | | | | | | |

## BULK EARTHWORKS C

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1




DATUM RL 2.0

| CHAINAGE | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 | 230 | 240 | 250 | 260 | 270 | 280 | 290 | 300 | 310 | 320 | 330 | 340 | 350 | 360 | 370 | 380 | 390 | 400 | 410 | 420 | 430 | 440 | 450 | 460 | 470 | 480 | 490 | 500 | 510 | 520 | 530 | 540 | 550 | 560 | 564.121 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | 21.289 | 21.735 | | | | | | 22.919 | 22.885 | 22.405 | 22.635 | 22.617 | 22.65 | 22.238 | 22.258 | 22.462 | 22.558 | 22.754 | 22.95 | 23.066 | 23.171 | 23.169 | 23.267 | 23.374 | 23.04 | 23.061 | 21.371 | 16.705 | 16.746 | 16.756 | 16.711 | 16.712 | 16.713 | 16.714 | 16.715 | 16.716 | 16.717 | 16.718 | 16.718 | 16.719 | 16.72 | 16.721 | 16.723 | 16.724 | 16.725 | 16.727 | 16.728 | 16.729 | 16.696 | 16.396 | 16.55 | 16.61 | 16.296 | 14.434 | 12.96 | 12.223 | 12.144 | 12.44 |
| BULK EARTHWORKS SURFACE | | | | | | | | | | 21.212 | 21.385 | | | | | | | | 21.761 | 19.365 | 19.485 | 21.117 | 21.312 | 21.466 | 21.567 | 21.397 | 21.196 | 20.995 | 20.794 | 20.593 | 20.385 | 20.08 | 19.691 | 19.258 | 18.641 | 17.329 | 18.505 | | | | | | | | 13.405 | 13.339 | 14.571 | 14.45 | 14.45 | 14.45 | 14.45 | 14.45 | 14.45 | | | | | | |
| FINISHED SURFACE LEVEL | | | | | | | | | | 22.796 | 22.794 | | | | | | | | 21.911 | 20.801 | 20.904 | 21.267 | 21.462 | 21.616 | 21.717 | 21.547 | 21.346 | 21.145 | 20.944 | 20.743 | 20.535 | 20.23 | 19.841 | 19.408 | 19.149 | 18.761 | 18.934 | | | | | | | | 14.989 | 14.771 | 14.721 | 14.6 | 14.6 | 14.6 | 14.6 | 14.6 | 14.6 | | | | | | |

## BULK EARTHWORKS D

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
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SCALE 1:1000 @ A1 (0 10 20 30 40 50m)
SCALE 1:500 @ A1 (0 5 10 15 20 25m)

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Sydney
Level 11 345 George Street, Sydney NSW 2000
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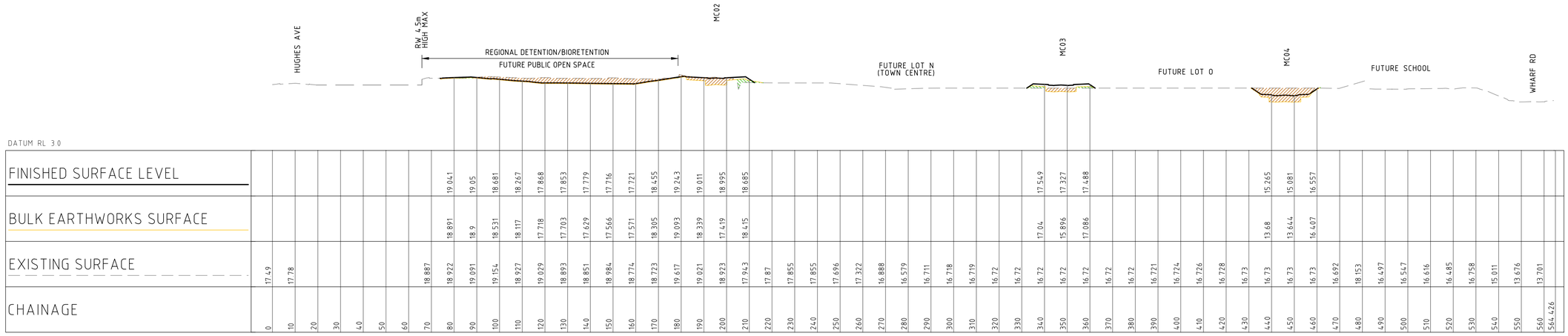
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITE SECTIONS - SHEET 02

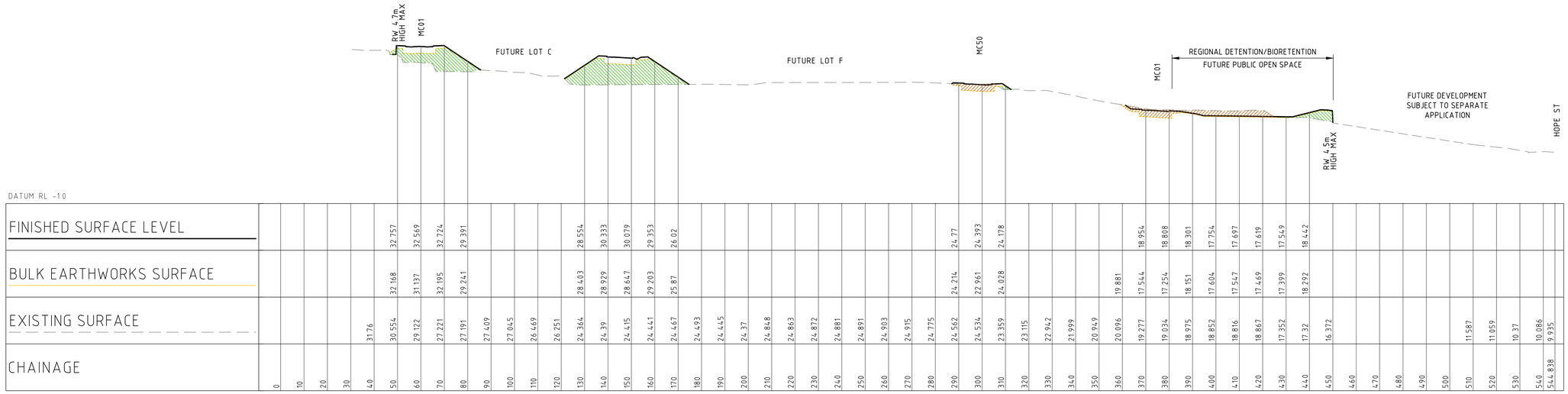
JOB NUMBER 150077-60
DRAWING NUMBER C03.12
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 19 DEC 2023 @ 09:07:40 - Melrose Park Infrastructure DA - 2021\0-Drawings\0-Civil\150077-60 CAD\01DA\150077-60_C03.12.dwg




## BULK EARTHWORKS E

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1




## BULK EARTHWORKS F

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
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SCALE 1:1000 @ A1 0 10 20 30 40 50m
SCALE 1:500 @ A1 0 5 10 15 20 25m

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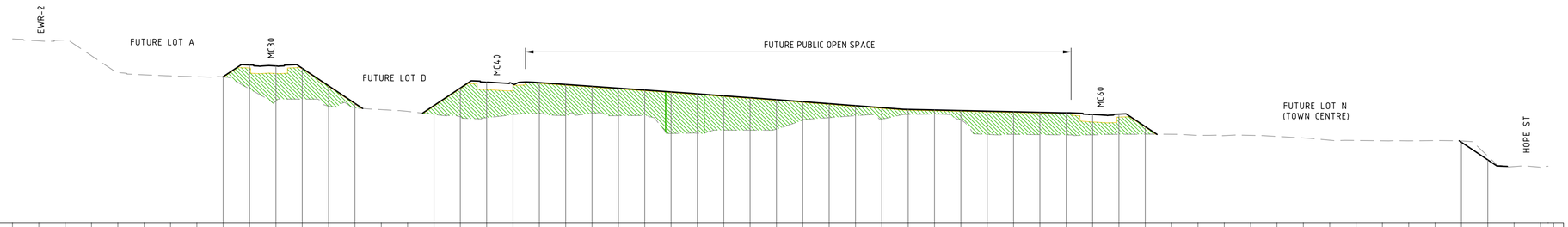
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**SITE SECTIONS - SHEET 03**

JOB NUMBER **150077-60**
DRAWING NUMBER **C03.13**
REVISION **07**
DRAWING SHEET SIZE = A1

Plotted: 06 Oct 23 10:00 AM BY: Adam Hall File Name: J:\150077 Melrose Park Infrastructure DA - 2021\10 Drawings\civil\150077-60 C03.13 SHEET 03_C03.13.dwg

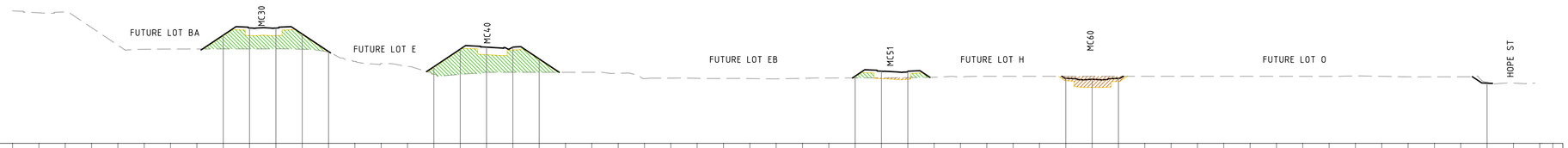



DATUM RL 0.0

| CHAINAGE | EXISTING SURFACE | BULK EARTHWORKS SURFACE | FINISHED SURFACE LEVEL |
|---|---|---|---|
| 0 | 34.862 | | |
| 10 | 34.492 | | |
| 20 | 34.656 | | |
| 30 | 31.669 | | |
| 40 | 28.488 | | |
| 50 | 28.052 | | |
| 60 | 27.845 | | |
| 70 | 27.689 | | |
| 80 | 27.642 | | 27.696 |
| 90 | 25.355 | 29.351 | 29.934 |
| 100 | 23.084 | 28.3 | 29.732 |
| 110 | 23.429 | 29.146 | 29.296 |
| 120 | 22.107 | 25.813 | 25.963 |
| 130 | 21.744 | 22.479 | 22.629 |
| 140 | 21.439 | | |
| 150 | 21.106 | | |
| 160 | 20.533 | 22.066 | 22.216 |
| 170 | 20.087 | 25.399 | 25.549 |
| 180 | 19.927 | 25.241 | 26.631 |
| 190 | 20.501 | 26.034 | 26.302 |
| 200 | 20.698 | 26.418 | 26.568 |
| 210 | 20.314 | 26.065 | 26.215 |
| 220 | 20.72 | 25.712 | 25.862 |
| 230 | 20.294 | 25.36 | 25.51 |
| 240 | 20.3 | 25.007 | 25.157 |
| 250 | 16.919 | 24.654 | 24.804 |
| 260 | 16.956 | 24.292 | 24.442 |
| 270 | 17.55 | 23.912 | 24.062 |
| 280 | 17.537 | 23.555 | 23.705 |
| 290 | 17.726 | 23.18 | 23.33 |
| 300 | 19.435 | 22.801 | 22.951 |
| 310 | 19.929 | 22.421 | 22.571 |
| 320 | 20.297 | 22.047 | 22.197 |
| 330 | 19.688 | 21.666 | 21.816 |
| 340 | 20.544 | 21.332 | 21.482 |
| 350 | 20.587 | 21.224 | 21.374 |
| 360 | 19.479 | 21.115 | 21.265 |
| 370 | 16.737 | 21.006 | 21.156 |
| 380 | 16.746 | 20.897 | 21.047 |
| 390 | 16.696 | 20.788 | 20.938 |
| 400 | 16.646 | 20.695 | 20.845 |
| 410 | 16.656 | 19.103 | 20.535 |
| 420 | 16.765 | 20.018 | 20.601 |
| 430 | 16.795 | 18.075 | 18.225 |
| 440 | 16.768 | | |
| 450 | 16.564 | | |
| 460 | 16.51 | | |
| 470 | 16.559 | | |
| 480 | 16.352 | | |
| 490 | 16.064 | | |
| 500 | 15.639 | | |
| 510 | 15.587 | | |
| 520 | 15.529 | | |
| 530 | 15.516 | | |
| 540 | 15.567 | | |
| 550 | 15.501 | | 15.245 |
| 560 | 12.594 | | 11.896 |
| 570 | 10.626 | | |
| 580 | 10.506 | | |
| 582.911 | 10.691 | | |

## BULK EARTHWORKS G

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1




DATUM RL 4.0

| CHAINAGE | EXISTING SURFACE | BULK EARTHWORKS SURFACE | FINISHED SURFACE LEVEL |
|---|---|---|---|
| 0 | 29.116 | | |
| 10 | 28.755 | | |
| 20 | 28.93 | | |
| 30 | 25.949 | | |
| 40 | 22.614 | | |
| 50 | 21.834 | | |
| 60 | 21.88 | | |
| 70 | 21.892 | | |
| 80 | 21.904 | 24.369 | 24.519 |
| 90 | 21.905 | 24.444 | 25.88 |
| 100 | 21.914 | 24.43 | 25.867 |
| 110 | 21.855 | 24.591 | 24.741 |
| 120 | 21.423 | | 21.408 |
| 130 | 19.538 | | |
| 140 | 19.137 | | |
| 150 | 18.593 | | |
| 160 | 17.128 | 18.381 | 18.531 |
| 170 | 17.081 | 21.715 | 21.865 |
| 180 | 17.47 | 20.811 | 22.243 |
| 190 | 17.47 | 21.707 | 22.231 |
| 200 | 17.47 | 19.862 | 20.012 |
| 210 | 17.47 | | |
| 220 | 17.47 | | |
| 230 | 17.286 | | |
| 240 | 16.266 | | |
| 250 | 16.363 | | |
| 260 | 16.331 | | |
| 270 | 16.3 | | |
| 280 | 16.283 | | |
| 290 | 16.221 | | |
| 300 | 16.327 | | |
| 310 | 16.392 | | |
| 320 | 16.403 | 16.598 | 16.748 |
| 330 | 16.415 | 16.275 | 17.685 |
| 340 | 16.466 | 16.155 | 17.685 |
| 350 | 16.53 | | |
| 360 | 16.588 | | |
| 370 | 16.72 | | |
| 380 | 16.72 | | |
| 390 | 16.72 | | |
| 400 | 16.721 | 15.904 | 16.333 |
| 410 | 16.721 | 14.617 | 16.151 |
| 420 | 16.722 | 15.745 | 16.328 |
| 430 | 16.723 | | |
| 440 | 16.723 | | |
| 450 | 16.724 | | |
| 460 | 16.725 | | |
| 470 | 16.721 | | |
| 480 | 16.714 | | |
| 490 | 16.706 | | |
| 500 | 16.701 | | |
| 510 | 16.782 | | |
| 520 | 16.713 | | |
| 530 | 16.619 | | |
| 540 | 16.612 | | |
| 550 | 16.624 | | 15.415 |
| 560 | 15.594 | | |
| 570 | 15.444 | | |
| 580 | | | |
| 580.843 | | | |

## BULK EARTHWORKS H

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:1000 @ A1 0 10 20 30 40 50m
SCALE 1:500 @ A1 0 5 10 15 20 25m

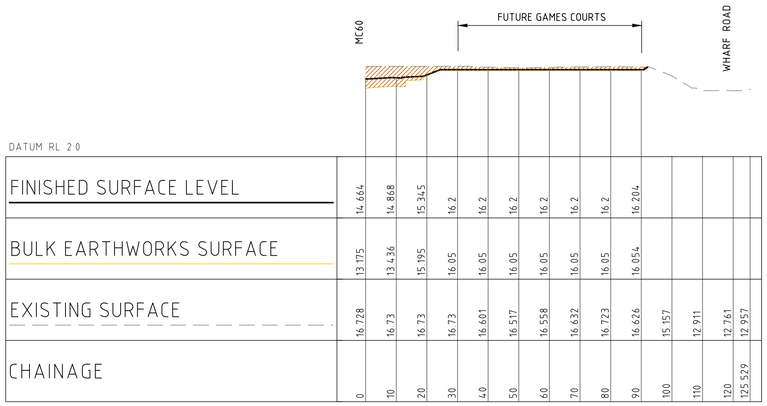
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITE SECTIONS - SHEET 04

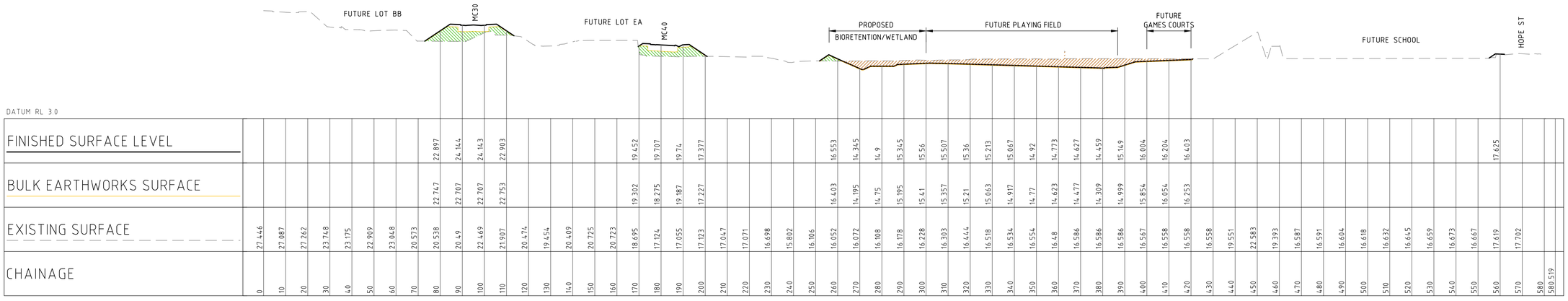
JOB NUMBER 150077-60
DRAWING NUMBER C03.14
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/11/2023 9:00:17 AM | By: Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\STAGE\150077-60_C03.14.dwg




## BULK EARTHWORKS K

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1




## BULK EARTHWORKS J

HORIZONTAL SCALE 1:1000@A1
VERTICAL SCALE 1:500@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:1000 @ A1 0 10 20 30 40 50m
SCALE 1:500 @ A1 0 5 10 15 20 25m

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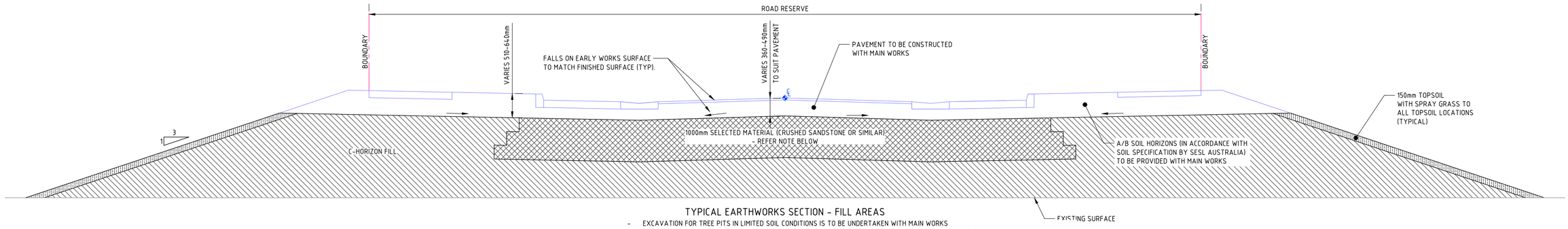
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITE SECTIONS - SHEET 05

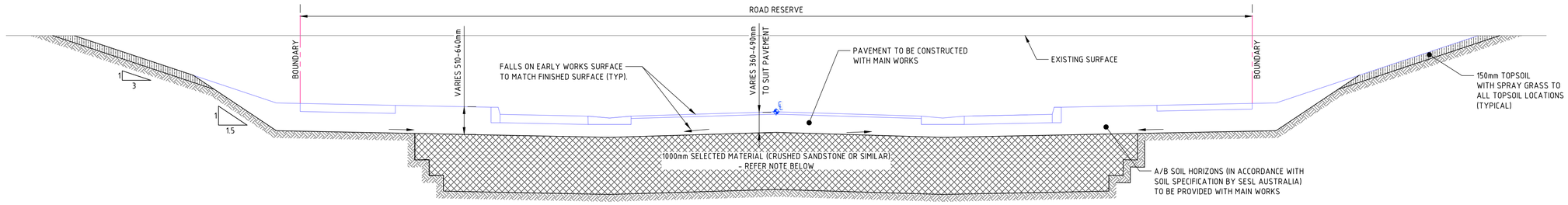
JOB NUMBER 150077-60
DRAWING NUMBER C03.15
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 11.10.2023 15:00:17 - Melrose Park Infrastructure DA - 2021\0-Drawings\Civil\150077-60 CAD\07-DA\150077-60_C03.15.dwg




TYPICAL EARTHWORKS SECTION - FILL AREAS

- EXCAVATION FOR TREE PITS IN LIMITED SOIL CONDITIONS IS TO BE UNDERTAKEN WITH MAIN WORKS
- IF BEDROCK IS ENCOUNTERED WITHIN 1000mm OF THE UNDERSIDE OF PAVEMENT, THE DEPTH OF SELECTED MATERIAL MAY BE REDUCED TO MINIMUM 300mm
- CONTRACTOR TO MAKE ALLOWANCE FOR THE USE OF A SPRAY-SEAL OR SIMILAR TO THE FINAL EARLY-WORKS PROFILE TO SUIT FINAL AGREED STAGING REQUIREMENTS
- ALLOW TO DRAIN VALLEYS IN SELECT MATERIAL LAYER UTILISING DIAGONALLY PLACED SANDBAGS OR SIMILAR BUNDING TO DIVERT FLOWS OUTSIDE FINAL SURFACE AREA




TYPICAL EARTHWORKS SECTION - CUT AREAS

- EXCAVATION FOR TREE PITS IN LIMITED SOIL CONDITIONS IS TO BE UNDERTAKEN WITH MAIN WORKS
- IF BEDROCK IS ENCOUNTERED WITHIN 1000mm OF THE UNDERSIDE OF PAVEMENT, THE DEPTH OF SELECTED MATERIAL MAY BE REDUCED TO MINIMUM 300mm
- CONTRACTOR TO MAKE ALLOWANCE FOR THE USE OF A SPRAY-SEAL OR SIMILAR TO THE FINAL EARLY-WORKS PROFILE TO SUIT FINAL AGREED STAGING REQUIREMENTS
- ALLOW TO DRAIN VALLEYS IN SELECT MATERIAL LAYER UTILISING DIAGONALLY PLACED SANDBAGS OR SIMILAR BUNDING TO DIVERT FLOWS OUTSIDE FINAL SURFACE AREA

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:50@A1 0.0 0.5 1.0 1.5 2.0 2.5m
SCALE 1:50@A1 0.0 0.5 1.0 1.5 2.0 2.5m

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Sydney
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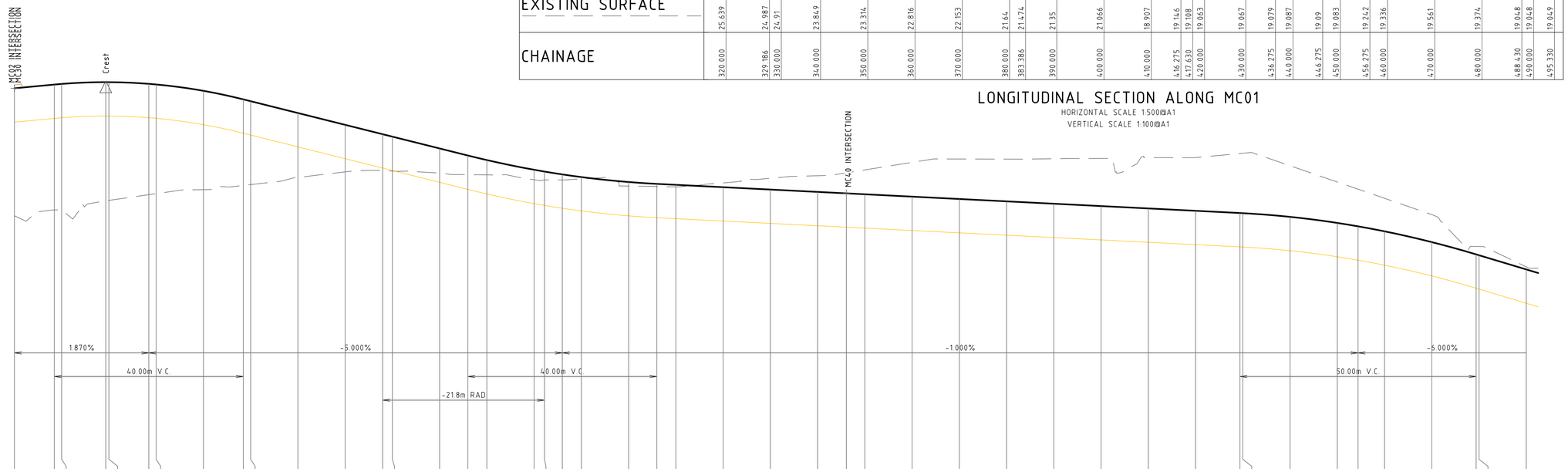
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**EARLY WORKS TYPICAL SECTIONS**

JOB NUMBER **150077-60**
DRAWING NUMBER **C03.21**
REVISION **03**
DRAWING SHEET SIZE = A1

Plotted: 16 OCTOBER 2023 - 10:07:07 AM by Brendan Mazza
C:\Users\bmazza\Documents\150077-60_Melrose Park Infrastructure DA_2021\0-Drawings\0-Civil\150077-60 CAD\03 EARLY WORKS\150077-60_C03.21.dwg




DESIGN GRADELINE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM RL 10.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 320.000 | 25.531 | 24.099 | 25.639 |
| 329.186 | 24.98 | 23.548 | 24.887 |
| 330.000 | 24.931 | 23.499 | 24.91 |
| 340.000 | 24.331 | 22.899 | 23.849 |
| 350.000 | 23.731 | 22.299 | 23.314 |
| 360.000 | 23.131 | 21.699 | 22.816 |
| 370.000 | 22.531 | 21.099 | 22.153 |
| 380.000 | 21.931 | 20.499 | 21.64 |
| 383.386 | 21.728 | 20.296 | 21.474 |
| 390.000 | 21.331 | 19.899 | 21.35 |
| 400.000 | 20.731 | 19.299 | 21.066 |
| 410.000 | 20.131 | 18.699 | 18.907 |
| 416.275 | 19.755 | 18.323 | 19.146 |
| 417.630 | 19.675 | 18.243 | 19.108 |
| 420.000 | 19.545 | 18.113 | 19.063 |
| 430.000 | 19.12 | 17.688 | 19.067 |
| 436.275 | 18.955 | 17.523 | 19.079 |
| 440.000 | 18.894 | 17.462 | 19.087 |
| 446.275 | 18.855 | 17.423 | 19.09 |
| 450.000 | 18.869 | 17.437 | 19.083 |
| 456.275 | 18.955 | 17.523 | 19.242 |
| 460.000 | 19.029 | 17.597 | 19.336 |
| 470.000 | 19.229 | 17.797 | 19.561 |
| 480.000 | 19.429 | 17.997 | 19.374 |
| 488.430 | 19.598 | 18.166 | 19.048 |
| 490.000 | 19.629 | 18.197 | 19.048 |
| 495.330 | 19.736 | 18.304 | 19.049 |

## LONGITUDINAL SECTION ALONG MC01

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DESIGN GRADELINE
VERTICAL GEOMETRY
HORIZONTAL GEOMETRY

DATUM RL 17.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | 33.197 | 31.764 | 27.802 |
| 8.450 | 33.355 | 31.923 | 28.052 |
| 10.000 | 33.381 | 31.949 | 28.046 |
| 19.337 | 33.456 | 32.024 | 28.435 |
| 20.000 | 33.456 | 32.024 | 28.453 |
| 28.450 | 33.385 | 31.953 | 28.694 |
| 30.000 | 33.359 | 31.927 | 28.738 |
| 40.000 | 33.09 | 31.658 | 28.907 |
| 48.450 | 32.729 | 31.297 | 29.086 |
| 50.000 | 32.651 | 31.219 | 29.121 |
| 60.000 | 32.151 | 30.719 | 29.423 |
| 70.000 | 31.651 | 30.219 | 29.659 |
| 77.943 | 31.254 | 29.822 | 29.713 |
| 80.000 | 31.151 | 29.719 | 29.695 |
| 90.000 | 30.651 | 29.219 | 29.608 |
| 95.970 | 30.353 | 28.921 | 29.541 |
| 100.000 | 30.159 | 28.727 | 29.532 |
| 110.000 | 29.749 | 28.317 | 29.326 |
| 112.186 | 29.673 | 28.241 | 29.32 |
| 115.970 | 29.553 | 28.121 | 29.318 |
| 120.000 | 29.44 | 28.008 | 29.362 |
| 130.000 | 29.23 | 27.798 | 29.058 |
| 135.970 | 29.153 | 27.721 | 29.04 |
| 140.000 | 29.112 | 27.68 | 29.028 |
| 150.000 | 29.012 | 27.58 | 29.192 |
| 160.000 | 28.912 | 27.48 | 29.389 |
| 170.000 | 28.812 | 27.38 | 29.496 |
| 176.086 | 28.751 | 27.319 | 29.618 |
| 180.000 | 28.712 | 27.28 | 29.743 |
| 190.000 | 28.612 | 27.18 | 30.062 |
| 200.000 | 28.512 | 27.08 | 30.204 |
| 210.000 | 28.412 | 26.98 | 30.199 |
| 220.000 | 28.312 | 26.88 | 30.216 |
| 230.000 | 28.212 | 26.78 | 30.228 |
| 240.000 | 28.112 | 26.68 | 30.26 |
| 250.000 | 28.012 | 26.58 | 30.263 |
| 259.383 | 27.918 | 26.486 | 30.436 |
| 260.000 | 27.912 | 26.48 | 30.448 |
| 270.000 | 27.756 | 26.324 | 29.919 |
| 280.000 | 27.5 | 26.068 | 29.23 |
| 284.383 | 27.356 | 25.924 | 28.928 |
| 290.000 | 27.144 | 25.712 | 28.542 |
| 300.000 | 26.687 | 25.255 | 27.853 |
| 309.383 | 26.168 | 24.736 | 26.503 |
| 310.000 | 26.131 | 24.699 | 26.501 |
| 320.000 | 25.531 | 24.099 | 25.639 |

## LONGITUDINAL SECTION ALONG MC01

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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SCALE 1:500@A1 0 5 10 15 20 25m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

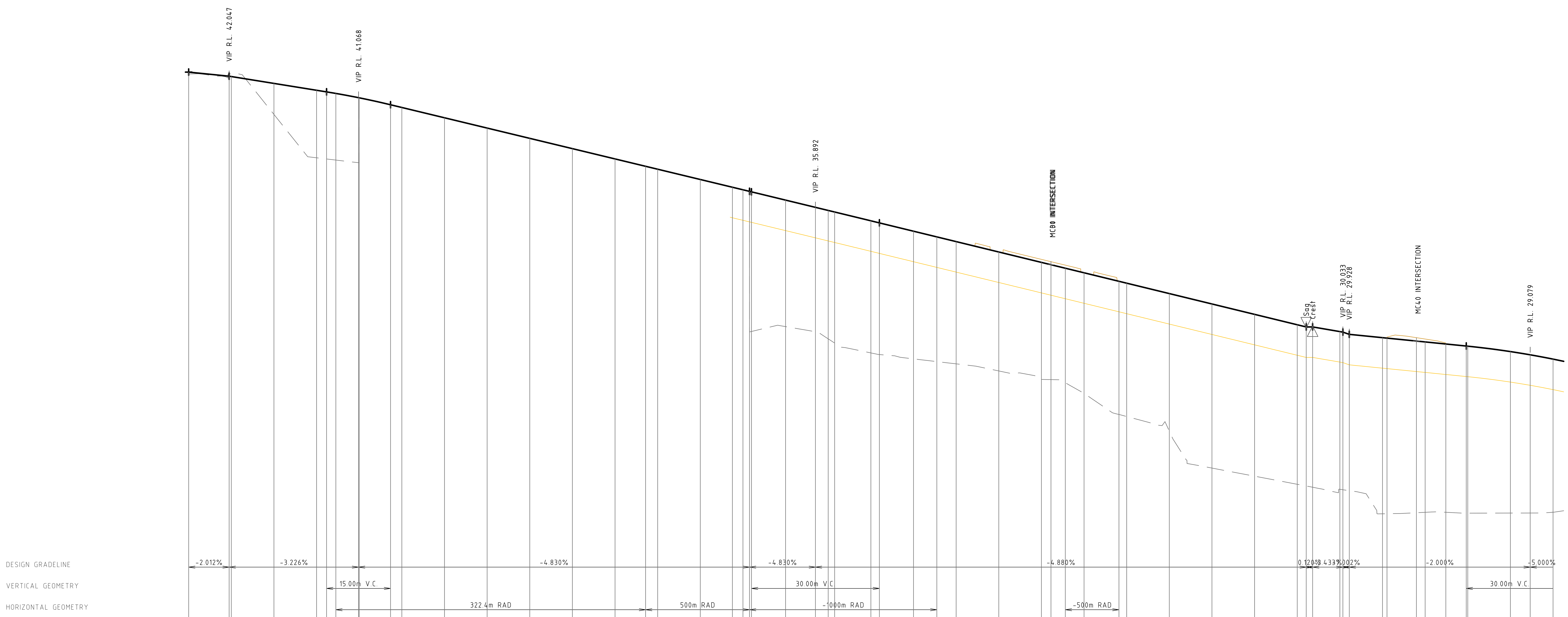
PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**EARLY WORKS LONGITUDINAL SECTIONS SHEET 01**

JOB NUMBER **150077-60**
DRAWING NUMBER **C03.31**
REVISION **03**
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:08:07 AM - Melrose Park Infrastructure DA - 150077-60 Drawings\C-Civil\150077-60 CAD\DA\150077-60_C03.31.dwg




DATUM RL 14.0

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 42.238 | 42.047 | 42.031 | 41.708 | 41.386 | 41.31 | 41.237 | 41.038 | 41.032 | 40.706 | 40.577 | 40.094 | 39.611 | 39.128 |
| EARLY WORKS SURFACE | | | | | | | | | | | | | | |
| EXISTING SURFACE | 42.184 | 42.151 | 42.167 | 40.252 | 38.216 | 38.161 | 38.11 | 37.986 | 41.032 | 40.706 | 40.578 | 40.095 | 39.612 | 39.128 |
| CHAINAGE | 0.000 | 9.494 | 10.000 | 20.000 | 30.000 | 32.345 | 34.517 | 39.845 | 40.000 | 47.345 | 50.000 | 60.000 | 70.000 | 80.000 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 38.645 | 38.162 | 37.816 | 37.679 | 37.196 | 36.833 | 36.713 | 36.639 | 36.617 | 36.23 | 35.89 | 35.744 | 35.671 | 35.258 |
| EARLY WORKS SURFACE | | | | | | 35.401 | 35.281 | 35.207 | 35.185 | 34.798 | 34.458 | 34.312 | 34.239 | 33.826 |
| EXISTING SURFACE | 38.645 | 38.162 | 37.816 | 37.679 | 37.196 | 36.833 | 36.713 | 30.04 | 30.062 | 30.291 | 30.051 | 29.716 | 29.519 | 29.056 |
| CHAINAGE | 90.000 | 100.000 | 107.161 | 110.000 | 120.000 | 127.522 | 130.000 | 131.535 | 132.000 | 140.000 | 147.000 | 150.000 | 151.502 | 160.000 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 35.16 | 34.77 | 34.503 | 34.282 | 33.794 | 33.306 | 33.196 | 33.032 | 32.818 | 32.418 | 32.33 | 31.842 | 31.354 | 30.866 |
| EARLY WORKS SURFACE | 33.728 | 33.338 | 33.071 | 32.85 | 32.362 | 31.874 | 31.764 | 31.6 | 31.386 | 30.986 | 30.898 | 30.41 | 29.922 | 29.434 |
| EXISTING SURFACE | 28.979 | 28.776 | 28.648 | 28.542 | 28.209 | 27.81 | 27.802 | 27.654 | 27.156 | 26.167 | 26.07 | 25.385 | 23.649 | 23.269 |
| CHAINAGE | 162.000 | 170.000 | 175.473 | 180.000 | 190.000 | 200.000 | 202.246 | 205.602 | 210.000 | 218.190 | 220.000 | 230.000 | 240.000 | 250.000 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.378 | 30.275 | 30.276 | 30.057 | 30.033 | 29.928 | 29.772 | 29.751 | 29.613 | 29.572 | 29.475 | 29.379 | 29.372 | 29.118 | 28.967 |
| EARLY WORKS SURFACE | 28.946 | 28.843 | 28.845 | 28.625 | 28.601 | 28.496 | 28.34 | 28.319 | 28.181 | 28.14 | 28.043 | 27.947 | 27.94 | 27.686 | 27.534 |
| EXISTING SURFACE | 22.889 | 22.809 | 22.751 | 22.652 | 22.632 | 22.589 | 21.503 | 21.507 | 21.553 | 21.573 | 21.576 | 21.53 | 21.531 | 21.538 | 21.539 |
| CHAINAGE | 260.000 | 262.111 | 263.610 | 270.000 | 270.709 | 272.209 | 280.000 | 281.049 | 287.949 | 290.000 | 294.849 | 299.643 | 300.000 | 310.000 | 314.643 |

| | |
|---|---|
| FINISHED SURFACE | 28.765 |
| EARLY WORKS SURFACE | 27.333 |
| EXISTING SURFACE | 21.573 |
| CHAINAGE | 320.000 |

# LONGITUDINAL SECTION ALONG MC02

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
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SCALE 1:500@ A1 — 0 5 10 15 20 25m
SCALE 1:100 @ A1 — 0 1 2 3 4 5m

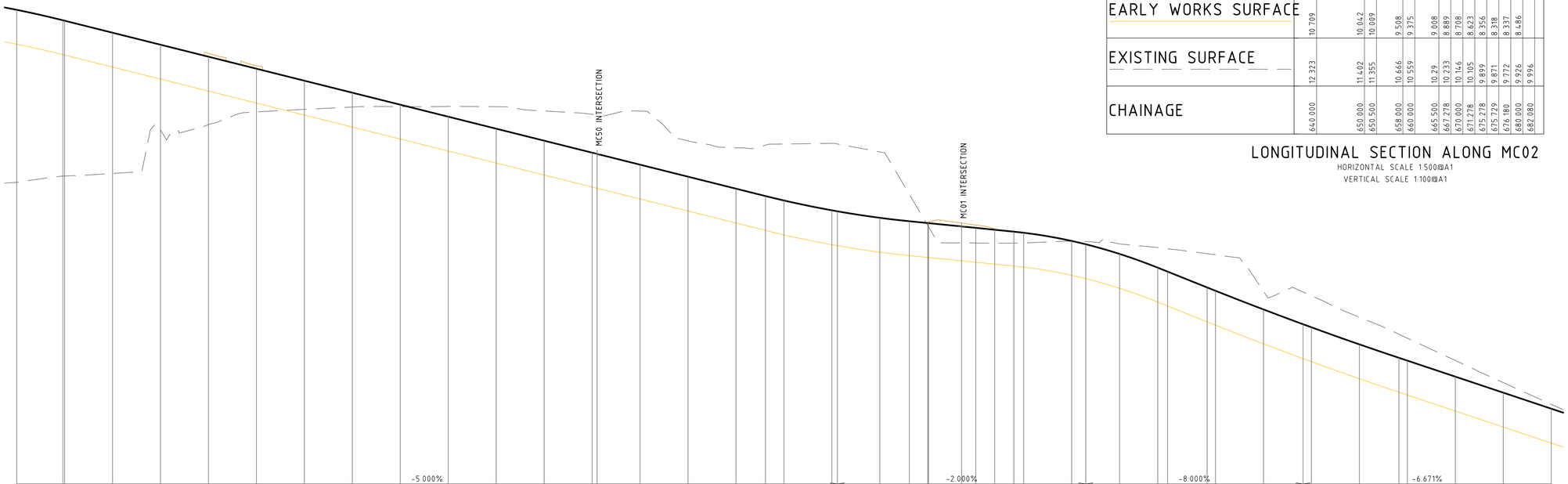
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
EARLY WORKS LONGITUDINAL SECTIONS SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C03.32
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C03.31.dwg

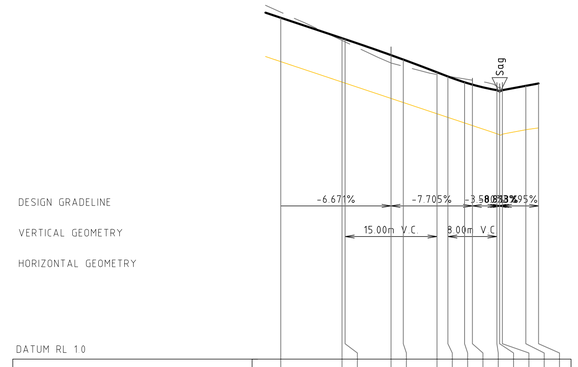



DATUM RL 4.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 320.000 | 28.765 | 27.333 | 21.573 |
| 329.643 | 28.329 | 26.897 | 21.837 |
| 330.000 | 28.311 | 26.879 | 21.839 |
| 340.000 | 27.811 | 26.379 | 21.945 |
| 350.000 | 27.311 | 25.879 | 23.767 |
| 360.000 | 26.811 | 25.379 | 23.98 |
| 370.000 | 26.311 | 24.879 | 24.509 |
| 380.000 | 25.811 | 24.379 | 24.615 |
| 390.000 | 25.311 | 23.879 | 24.714 |
| 400.000 | 24.811 | 23.379 | 24.73 |
| 410.000 | 24.311 | 22.879 | 24.737 |
| 420.000 | 23.811 | 22.379 | 24.725 |
| 430.000 | 23.311 | 21.879 | 24.549 |
| 440.000 | 22.811 | 21.379 | 24.41 |
| 441.049 | 22.759 | 21.327 | 24.385 |
| 450.000 | 22.311 | 20.879 | 24.543 |
| 460.000 | 21.811 | 20.379 | 23.303 |
| 470.000 | 21.311 | 19.879 | 23.011 |
| 476.149 | 21.004 | 19.572 | 23.123 |
| 480.000 | 20.819 | 19.387 | 23.172 |
| 490.000 | 20.407 | 18.975 | 23.2 |
| 491.149 | 20.366 | 18.934 | 23.175 |
| 500.000 | 20.096 | 18.664 | 22.84 |
| 506.149 | 19.954 | 18.522 | 21.076 |
| 510.000 | 19.877 | 18.445 | 19.774 |
| 510.149 | 19.874 | 18.442 | 19.724 |
| 517.049 | 19.736 | 18.304 | 19.049 |
| 520.000 | 19.677 | 18.245 | 19.041 |
| 523.949 | 19.598 | 18.166 | 19.04 |
| 527.949 | 19.518 | 18.086 | 19.039 |
| 530.000 | 19.473 | 18.041 | 19.046 |
| 540.000 | 19.132 | 17.7 | 19.116 |
| 542.949 | 18.993 | 17.561 | 19.106 |
| 550.000 | 18.591 | 17.159 | 19.009 |
| 557.949 | 18.018 | 16.586 | 18.856 |
| 560.000 | 17.854 | 16.422 | 18.808 |
| 568.249 | 17.194 | 15.762 | 18.6 |
| 570.000 | 17.054 | 15.622 | 18.554 |
| 580.000 | 16.277 | 14.845 | 17.036 |
| 588.249 | 15.66 | 14.228 | 17.007 |
| 590.000 | 15.532 | 14.1 | 16.85 |
| 600.000 | 14.821 | 13.389 | 15.954 |
| 608.249 | 14.26 | 12.828 | 15.242 |
| 610.000 | 14.143 | 12.711 | 15.079 |
| 620.000 | 13.476 | 12.044 | 14.151 |
| 630.000 | 12.808 | 11.376 | 13.227 |
| 640.000 | 12.141 | 10.709 | 12.323 |

## LONGITUDINAL SECTION ALONG MC02

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1




DATUM RL 1.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 640.000 | 12.141 | 10.709 | 12.323 |
| 650.000 | 11.474 | 10.042 | 11.402 |
| 650.500 | 11.441 | 10.009 | 11.355 |
| 658.000 | 10.921 | 9.508 | 10.666 |
| 660.000 | 10.776 | 9.375 | 10.559 |
| 665.500 | 10.363 | 9.008 | 10.29 |
| 667.278 | 10.226 | 8.889 | 10.233 |
| 670.000 | 10.035 | 8.708 | 10.146 |
| 671.278 | 9.959 | 8.623 | 10.105 |
| 675.278 | 9.777 | 8.356 | 9.899 |
| 675.729 | 9.737 | 8.318 | 9.871 |
| 676.180 | 9.778 | 8.337 | 9.772 |
| 680.000 | 9.919 | 8.486 | 9.926 |
| 682.080 | 9.996 | | 9.996 |

## LONGITUDINAL SECTION ALONG MC02

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
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SCALE 1:500@A1 0 5 10 15 20 25m
SCALE 1:100@A1 0 1 2 3 4 5m

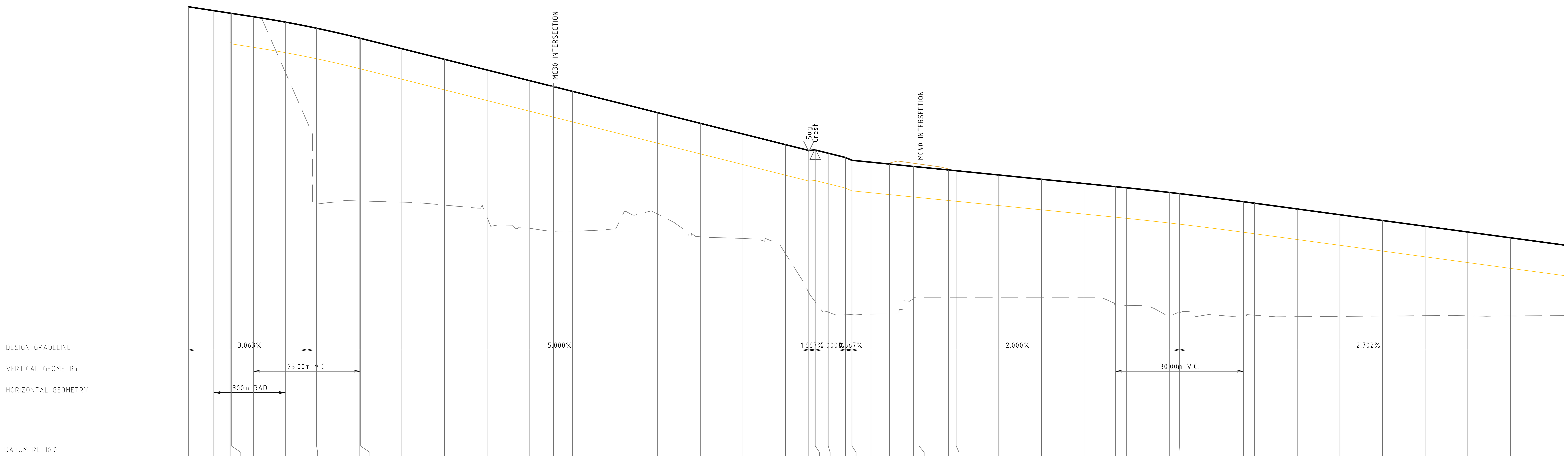
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
EARLY WORKS LONGITUDINAL SECTIONS SHEET 03

JOB NUMBER 150077-60
DRAWING NUMBER C03.33
REVISION 03
DRAWING SHEET SIZE = A1

Plotted: 19 OCT 2023 @ 09:07:49 AM by Adam Rivett Melrose Park Infrastructure DA - 2021\150077\Drawings\C-Civil\150077-60 CAD\C03xx\150077-60_C03.33.dwg




| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.085 | 30.904 | 30.787 | 30.778 | 30.618 | 30.463 | 30.366 | 30.174 | 30.082 | 29.622 | 29.61 | 29.122 | 28.622 |
| EARLY WORKS SURFACE | | | 29.417 | 29.346 | 29.186 | 29.031 | 28.934 | 28.742 | 28.65 | 28.19 | 28.178 | 27.69 | 27.19 |
| EXISTING SURFACE | 31.085 | 30.899 | 30.786 | 30.778 | 30.623 | 29.233 | 27.978 | 25.707 | 21.836 | 21.984 | 21.983 | 21.928 | 21.789 |
| CHAINAGE | 0.000 | 5.901 | 9.726 | 10.000 | 15.251 | 20.000 | 22.759 | 27.751 | 30.000 | 40.000 | 40.251 | 50.000 | 60.000 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.122 | 27.622 | 27.343 | 27.122 | 26.622 | 26.122 | 25.622 | 25.122 | 24.622 | 24.35 | 24.375 | 24.222 | 24.02 |
| EARLY WORKS SURFACE | 26.69 | 26.19 | 25.911 | 25.69 | 25.19 | 24.69 | 24.19 | 23.69 | 23.19 | 22.918 | 22.943 | 22.79 | 22.588 |
| EXISTING SURFACE | 21.207 | 20.702 | 20.559 | 20.573 | 20.676 | 21.367 | 20.305 | 20.229 | 19.506 | 17.687 | 17.259 | 16.773 | 16.647 |
| CHAINAGE | 70.000 | 80.000 | 85.578 | 90.000 | 100.000 | 110.000 | 120.000 | 130.000 | 140.000 | 145.445 | 146.945 | 150.000 | 154.045 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.89 | 23.801 | 23.713 | 23.601 | 23.575 | 23.437 | 23.401 | 23.201 | 23.001 | 22.801 | 22.653 | 22.6 | 22.382 |
| EARLY WORKS SURFACE | 22.458 | 22.369 | 22.281 | 22.169 | 22.143 | 22.005 | 21.969 | 21.769 | 21.569 | 21.369 | 21.221 | 21.168 | 20.95 |
| EXISTING SURFACE | 16.653 | 16.679 | 16.682 | 17.409 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.051 | 17.075 | 16.591 |
| CHAINAGE | 155.545 | 160.000 | 164.379 | 170.000 | 171.278 | 178.179 | 180.000 | 190.000 | 200.000 | 210.000 | 217.410 | 220.000 | 230.000 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.326 | 22.141 | 21.947 | 21.877 | 21.607 | 21.337 | 21.067 | 20.797 | 20.526 | 20.256 | 19.986 | | |
| EARLY WORKS SURFACE | 20.894 | 20.709 | 20.515 | 20.445 | 20.175 | 19.905 | 19.635 | 19.365 | 19.094 | 18.824 | 18.554 | | |
| EXISTING SURFACE | 16.751 | 16.649 | 16.59 | 16.627 | 16.558 | 16.572 | 16.588 | 16.605 | 16.598 | 16.595 | 16.604 | | |
| CHAINAGE | 232.410 | 240.000 | 247.410 | 250.000 | 260.000 | 270.000 | 280.000 | 290.000 | 300.000 | 310.000 | 320.000 | | |

## LONGITUDINAL SECTION ALONG MC03
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m

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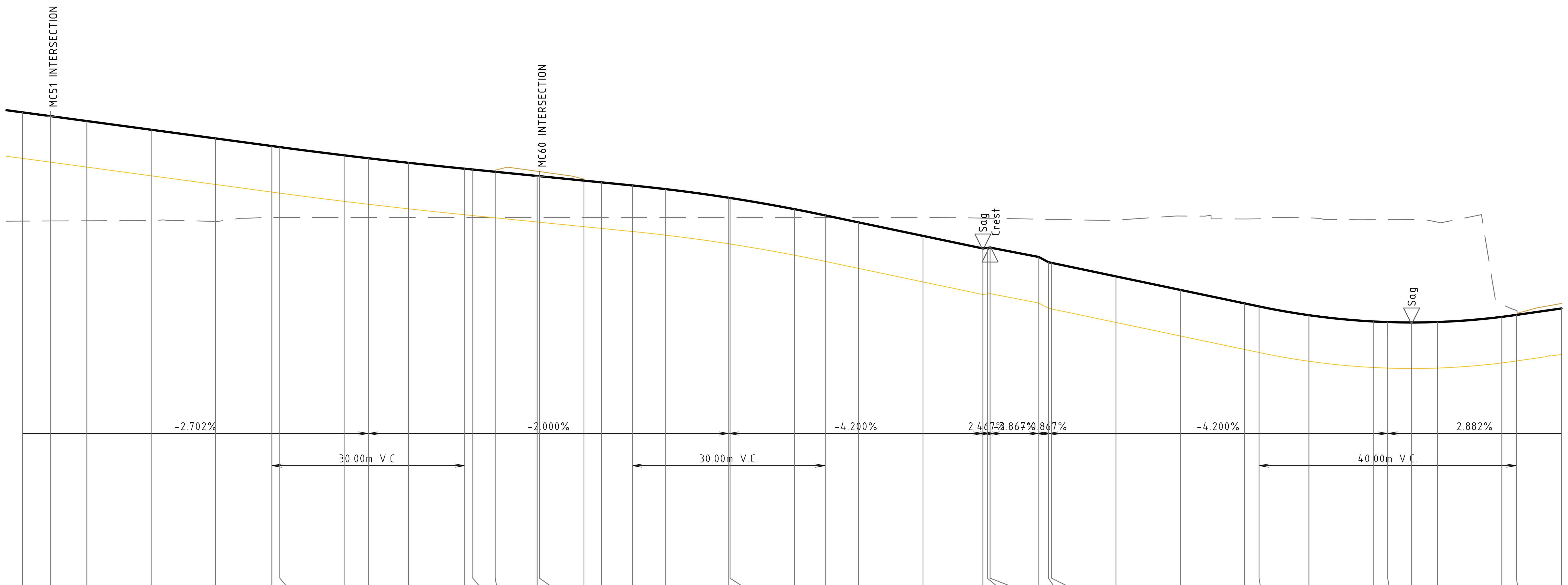
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
EARLY WORKS LONGITUDINAL SECTIONS SHEET 04

JOB NUMBER 150077-60
DRAWING NUMBER C03.34
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C03.31.dwg




| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.986 | 19.868 | 19.716 | 19.446 | 19.176 | 18.939 | 18.906 | 18.65 | 18.56 | 18.418 | 18.234 | 18.209 | 18.139 | 18.009 |
| EARLY WORKS SURFACE | 18.554 | 18.436 | 18.284 | 18.014 | 17.744 | 17.507 | 17.474 | 17.218 | 17.128 | 16.986 | 16.802 | 16.777 | 16.707 | 16.577 |
| EXISTING SURFACE | 16.604 | 16.608 | 16.614 | 16.623 | 16.595 | 16.715 | 16.715 | 16.716 | 16.717 | 16.717 | 16.718 | 16.718 | 16.719 | 16.719 |
| CHAINAGE | 320.000 | 324.378 | 330.000 | 340.000 | 350.000 | 358.760 | 360.000 | 370.000 | 373.760 | 380.000 | 388.760 | 390.000 | 393.479 | 400.000 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.001 | 17.863 | 17.809 | 17.713 | 17.599 | 17.33 | 17.324 | 16.976 | 16.783 | 16.564 | 16.144 | 15.753 | 15.77 | 15.781 |
| EARLY WORKS SURFACE | 16.569 | 16.431 | 16.377 | 16.281 | 16.167 | 15.898 | 15.892 | 15.544 | 15.351 | 15.132 | 14.712 | 14.321 | 14.338 | 14.349 |
| EXISTING SURFACE | 16.719 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 | 16.719 | 16.697 | 16.694 | 16.693 |
| CHAINAGE | 400.378 | 407.279 | 410.000 | 414.801 | 420.000 | 429.801 | 430.000 | 440.000 | 444.801 | 450.000 | 460.000 | 469.308 | 470.000 | 470.430 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.488 | 15.325 | 15.304 | 14.884 | 14.464 | 14.044 | 13.95 | 13.677 | 13.483 | 13.464 | 13.452 | 13.466 | 13.626 | 13.686 | 13.889 |
| EARLY WORKS SURFACE | 14.056 | 13.893 | 13.872 | 13.452 | 13.032 | 12.612 | 12.518 | 12.245 | 12.051 | 12.032 | 12.02 | 12.034 | 12.194 | 12.254 | |
| EXISTING SURFACE | 16.664 | 16.659 | 16.657 | 16.636 | 16.762 | 16.67 | 16.674 | 16.708 | 16.66 | 16.656 | 16.65 | 16.572 | 14.012 | 13.825 | 13.889 |
| CHAINAGE | 478.008 | 479.508 | 480.000 | 490.000 | 500.000 | 510.000 | 512.247 | 520.000 | 530.000 | 532.247 | 535.969 | 540.000 | 550.000 | 552.247 | 559.265 |

## LONGITUDINAL SECTION ALONG MC03

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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CLIENT: SEKISUI HOUSE

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SCALE 1:100@A1 0 1 2 3 4 5m

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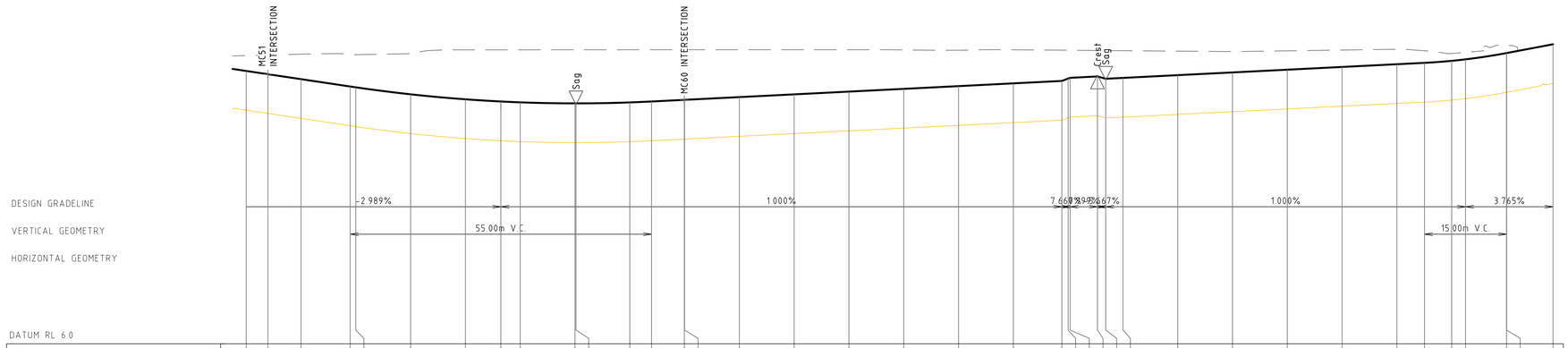
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
EARLY WORKS LONGITUDINAL SECTIONS SHEET 05

JOB NUMBER: 150077-60
DRAWING NUMBER: C03.35
REVISION: 03
DRAWING SHEET SIZE = A1




DESIGN GRADELINE

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

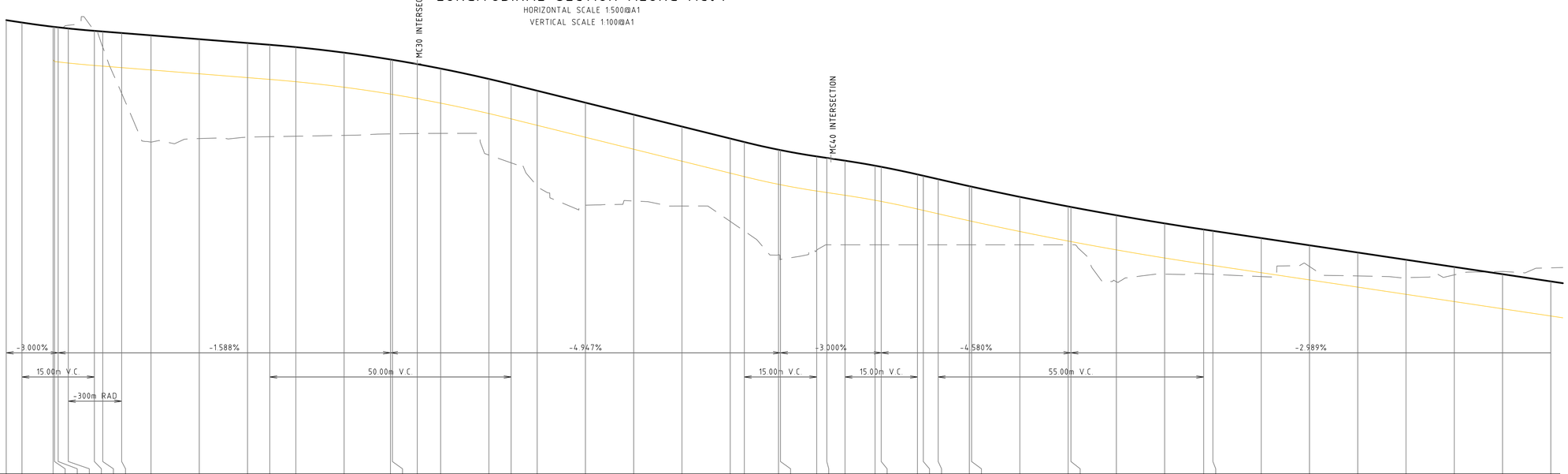
DATUM RL 6.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 320.000 | 15.956 | 14.524 | 16.517 |
| 323.956 | 15.838 | 14.406 | 16.537 |
| 330.000 | 15.657 | 14.225 | 16.568 |
| 338.974 | 15.389 | 13.957 | 16.564 |
| 340.000 | 15.359 | 13.927 | 16.55 |
| 350.000 | 15.103 | 13.671 | 16.603 |
| 360.000 | 14.921 | 13.489 | 16.726 |
| 366.474 | 14.841 | 13.409 | 16.726 |
| 370.000 | 14.811 | 13.379 | 16.727 |
| 380.000 | 14.773 | 13.341 | 16.728 |
| 380.186 | 14.773 | 13.341 | 16.728 |
| 390.000 | 14.808 | 13.376 | 16.729 |
| 393.974 | 14.842 | 13.41 | 16.729 |
| 399.956 | 14.902 | 13.47 | 16.729 |
| 400.000 | 14.902 | 13.47 | 16.729 |
| 410.000 | 15.002 | 13.57 | 16.73 |
| 420.000 | 15.102 | 13.67 | 16.73 |
| 430.000 | 15.202 | 13.77 | 16.73 |
| 440.000 | 15.302 | 13.87 | 16.724 |
| 450.000 | 15.402 | 13.97 | 16.71 |
| 460.000 | 15.502 | 14.07 | 16.728 |
| 468.857 | 15.591 | 14.159 | 16.733 |
| 470.000 | 15.678 | 14.246 | 16.712 |
| 470.357 | 15.706 | 14.274 | 16.711 |
| 475.357 | 15.756 | 14.324 | 16.703 |
| 476.857 | 15.671 | 14.239 | 16.7 |
| 480.000 | 15.702 | 14.27 | 16.695 |
| 490.000 | 15.802 | 14.37 | 16.679 |
| 500.000 | 15.902 | 14.47 | 16.663 |
| 510.000 | 16.002 | 14.57 | 16.69 |
| 520.000 | 16.102 | 14.67 | 16.719 |
| 530.000 | 16.202 | 14.77 | 16.748 |
| 535.031 | 16.252 | 14.82 | 16.693 |
| 540.000 | 16.325 | 14.893 | 16.595 |
| 542.531 | 16.379 | 14.947 | 16.633 |
| 550.000 | 16.609 | 15.177 | 16.879 |
| 550.031 | 16.61 | 15.178 | 16.878 |
| 558.498 | 16.929 | | 16.921 |

## LONGITUDINAL SECTION ALONG MC04

HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1




DESIGN GRADELINE

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL 8.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | 26.767 | | 26.767 |
| 3.259 | 26.67 | | 26.67 |
| 9.711 | 26.496 | 25.129 | 26.495 |
| 10.000 | 26.489 | 25.057 | 26.489 |
| 10.759 | 26.471 | 25.039 | 26.472 |
| 12.858 | 26.425 | 24.993 | 26.556 |
| 18.259 | 26.326 | 24.894 | 26.331 |
| 20.000 | 26.298 | 24.866 | 25.653 |
| 23.915 | 26.236 | 24.804 | 23.74 |
| 30.000 | 26.139 | 24.707 | 21.722 |
| 40.000 | 25.98 | 24.548 | 21.869 |
| 50.000 | 25.822 | 24.39 | 21.926 |
| 54.606 | 25.748 | 24.316 | 21.946 |
| 60.000 | 25.653 | 24.221 | 21.965 |
| 70.000 | 25.424 | 23.992 | 21.999 |
| 79.606 | 25.141 | 23.709 | 22.061 |
| 80.000 | 25.129 | 23.697 | 22.062 |
| 85.156 | 24.95 | 23.518 | 22.076 |
| 90.000 | 24.766 | 23.334 | 22.081 |
| 100.000 | 24.335 | 22.903 | 21.186 |
| 104.606 | 24.115 | 22.683 | 20.863 |
| 110.000 | 23.848 | 22.416 | 19.9 |
| 120.000 | 23.353 | 21.921 | 19.111 |
| 130.000 | 22.858 | 21.426 | 19.284 |
| 140.000 | 22.364 | 20.932 | 19.075 |
| 150.000 | 21.869 | 20.437 | 18.44 |
| 152.913 | 21.725 | 20.293 | 18.04 |
| 160.000 | 21.407 | 19.975 | 17.055 |
| 160.413 | 21.39 | 19.958 | 16.861 |
| 167.913 | 21.129 | 19.697 | 17.243 |
| 170.000 | 21.066 | 19.634 | 17.47 |
| 173.780 | 20.953 | 19.521 | 17.47 |
| 180.000 | 20.746 | 19.314 | 17.47 |
| 181.280 | 20.698 | 19.266 | 17.47 |
| 188.780 | 20.384 | 18.952 | 17.47 |
| 190.000 | 20.328 | 18.896 | 17.47 |
| 193.083 | 20.187 | 18.755 | 17.47 |
| 199.537 | 19.898 | 18.466 | 17.47 |
| 200.000 | 19.877 | 19.445 | 17.47 |
| 210.000 | 19.454 | 18.022 | 17.47 |
| 220.000 | 19.059 | 17.627 | 17.47 |
| 220.583 | 19.037 | 17.605 | 17.47 |
| 230.000 | 18.693 | 17.261 | 15.938 |
| 240.000 | 18.357 | 16.925 | 16.257 |
| 248.083 | 18.106 | 16.674 | 16.272 |
| 250.000 | 18.048 | 16.616 | 16.251 |
| 260.000 | 17.749 | 16.317 | 16.155 |
| 270.000 | 17.45 | 16.018 | 16.575 |
| 280.000 | 17.152 | 15.72 | 16.183 |
| 290.000 | 16.853 | 15.421 | 16.113 |
| 300.000 | 16.554 | 15.122 | 16.226 |
| 310.000 | 16.255 | 14.823 | 16.367 |
| 320.000 | 15.956 | 14.524 | 16.517 |

## LONGITUDINAL SECTION ALONG MC04

HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT

SEKISUI HOUSE

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SCALE 1:500@A1 0 5 10 15 20 25m

SCALE 1:100@A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE

**CIVIL ENGINEERING PACKAGE**

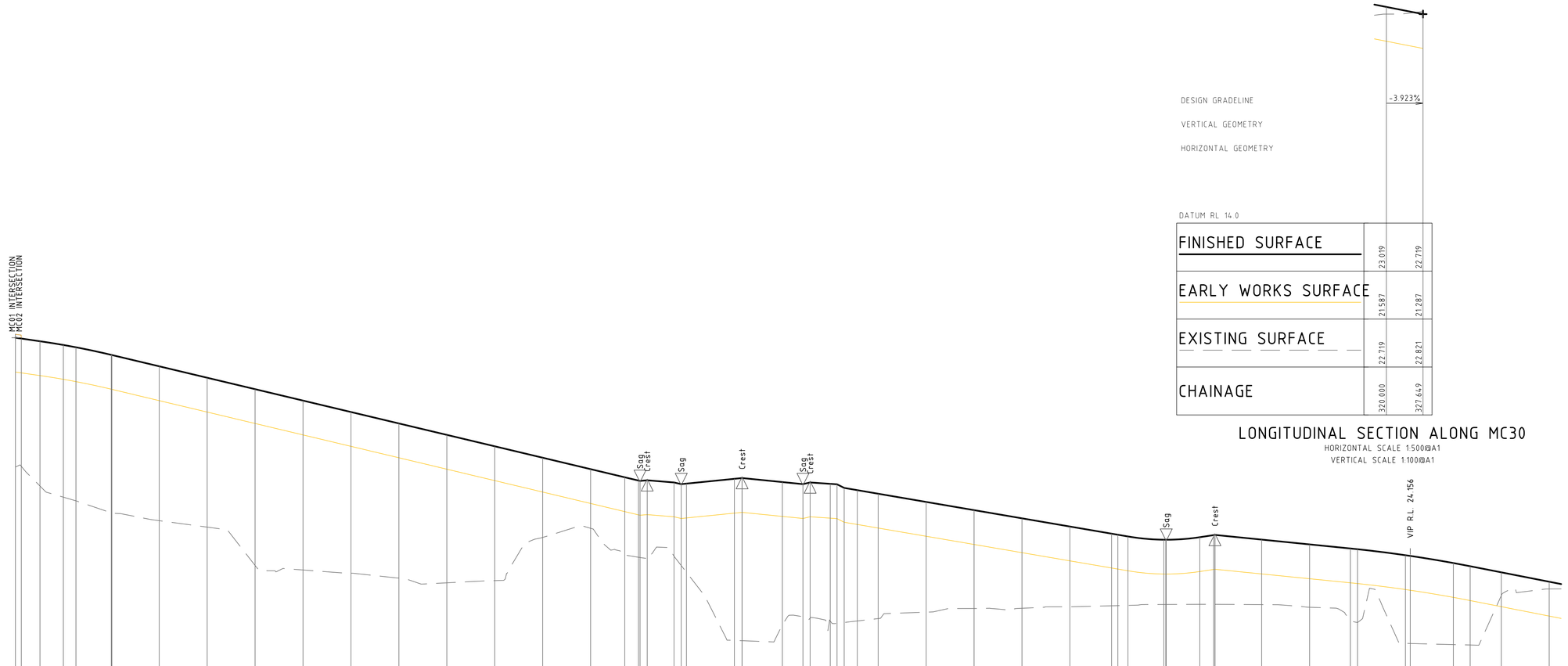
**EARLY WORKS LONGITUDINAL SECTIONS SHEET 06**

JOB NUMBER **150077-60**

DRAWING NUMBER **C03.36** REVISION **03**

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 10:07:17 AM - By: Brad Mazza - File: C:\Users\BradMazza\Northrop Consulting Engineers\150077 - Melrose Park Infrastructure DA - 150710-Drawings\Civil\150077_03 CAD\01 CONTRACT\150077_03_C03.36.dwg




LONGITUDINAL SECTION ALONG MC30

HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT

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SCALE 1:500@A1 0 5 10 15 20 25m

SCALE 1:100@A1 0 1 2 3 4 5m

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

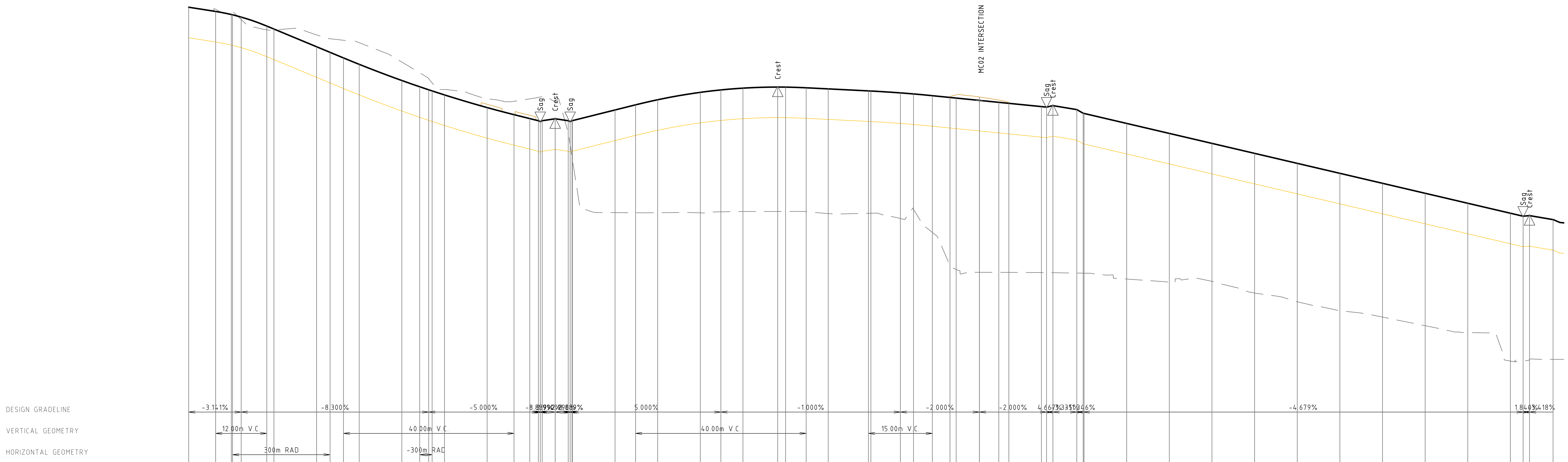
**EARLY WORKS LONGITUDINAL SECTIONS SHEET 07**

JOB NUMBER **150077-60**

DRAWING NUMBER **C03.37** REVISION **03**

DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 8:08:11 AM - Melrose Park Infrastructure DA - 2022\10-Drawings\C-Civil\150077-60 CAD\09-Civil\150077-60_C03.37.dwg




DATUM RL 10.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | 33.983 | 32.551 | 33.983 |
| 6.322 | 33.784 | 32.352 | 33.889 |
| 10.000 | 33.64 | 32.208 | 33.721 |
| 10.284 | 33.626 | 32.194 | 33.774 |
| 12.322 | 33.518 | 32.086 | 33.405 |
| 18.322 | 33.098 | 31.666 | 32.923 |
| 20.000 | 32.959 | 31.527 | 32.917 |
| 30.000 | 32.129 | 30.697 | 32.686 |
| 33.166 | 31.866 | 30.434 | 32.503 |
| 36.302 | 31.606 | 30.174 | 32.434 |
| 40.000 | 31.304 | 29.872 | 32.319 |
| 50.000 | 30.546 | 29.114 | 31.411 |
| 54.189 | 30.253 | 28.821 | 30.908 |
| 56.302 | 30.111 | 28.679 | 30.631 |
| 57.102 | 30.058 | 28.626 | 30.433 |
| 60.000 | 29.87 | 28.438 | 30.124 |
| 70.000 | 29.277 | 27.845 | 29.687 |
| 76.302 | 28.946 | 27.514 | 29.57 |
| 80.000 | 28.761 | 27.329 | 29.684 |
| 82.016 | 28.66 | 27.228 | 29.757 |
| 82.466 | 28.62 | 27.188 | 29.77 |
| 82.916 | 28.66 | 27.228 | 29.78 |
| 85.966 | 28.751 | 27.319 | 29.618 |
| 85.966 | 28.751 | 27.319 | 29.618 |
| 89.016 | 28.66 | 27.228 | 28.101 |
| 89.466 | 28.62 | 27.188 | 27.529 |
| 89.916 | 28.66 | 27.228 | 26.952 |
| 90.000 | 28.664 | 27.232 | 26.844 |
| 100.000 | 29.164 | 27.732 | 24.35 |
| 104.821 | 29.405 | 27.973 | 24.345 |
| 110.000 | 29.644 | 28.212 | 24.347 |
| 120.000 | 29.991 | 28.559 | 24.34 |
| 124.821 | 30.105 | 28.673 | 24.388 |
| 130.000 | 30.189 | 28.757 | 24.403 |
| 138.154 | 30.238 | 28.806 | 24.405 |
| 140.000 | 30.236 | 28.804 | 24.406 |
| 144.821 | 30.205 | 28.773 | 24.396 |
| 150.000 | 30.153 | 28.721 | 24.305 |
| 159.424 | 30.059 | 28.627 | 24.319 |
| 160.000 | 30.053 | 28.621 | 24.321 |
| 166.924 | 29.965 | 28.533 | 24.073 |
| 170.000 | 29.916 | 28.484 | 24.51 |
| 174.424 | 29.834 | 28.402 | 23.423 |
| 178.566 | 29.751 | 28.319 | 21.874 |
| 180.000 | 29.723 | 28.291 | 21.689 |
| 185.466 | 29.613 | 28.181 | 21.553 |
| 185.466 | 29.613 | 28.181 | 21.553 |
| 190.000 | 29.523 | 28.091 | 21.551 |
| 192.366 | 29.475 | 28.043 | 21.55 |
| 200.000 | 29.322 | 27.89 | 21.54 |
| 201.200 | 29.299 | 27.867 | 21.539 |
| 202.700 | 29.369 | 27.936 | 21.535 |
| 208.300 | 29.182 | 27.75 | 21.516 |
| 209.800 | 29.012 | 27.58 | 21.512 |
| 210.000 | 29.002 | 27.57 | 21.512 |
| 220.000 | 28.534 | 27.102 | 21.235 |
| 230.000 | 28.066 | 26.634 | 21.087 |
| 240.000 | 27.598 | 26.166 | 21.13 |
| 250.000 | 27.131 | 25.699 | 20.577 |
| 260.000 | 26.663 | 25.231 | 20.172 |
| 270.000 | 26.195 | 24.763 | 19.749 |
| 280.000 | 25.727 | 24.295 | 19.454 |
| 290.000 | 25.259 | 23.827 | 19.049 |
| 300.000 | 24.791 | 23.359 | 18.725 |
| 310.000 | 24.323 | 22.891 | 17.391 |
| 312.983 | 24.184 | 22.752 | 17.396 |
| 314.483 | 24.211 | 22.779 | 17.47 |
| 320.000 | 24.023 | 22.591 | 17.47 |

# LONGITUDINAL SECTION ALONG MC40

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA    DESIGNED: A.RIVETT    JOB MANAGER: P.SUTTON    VERIFIER: -

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| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
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SCALE 1:500@ A1 — 0 5 10 15 20 25m
SCALE 1:100 @ A1 — 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: **MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE: **CIVIL ENGINEERING PACKAGE**
**EARLY WORKS LONGITUDINAL SECTIONS SHEET 08**

JOB NUMBER: **150077-60**
DRAWING NUMBER: **C03.38**
REVISION: **03**
DRAWING SHEET SIZE = A1

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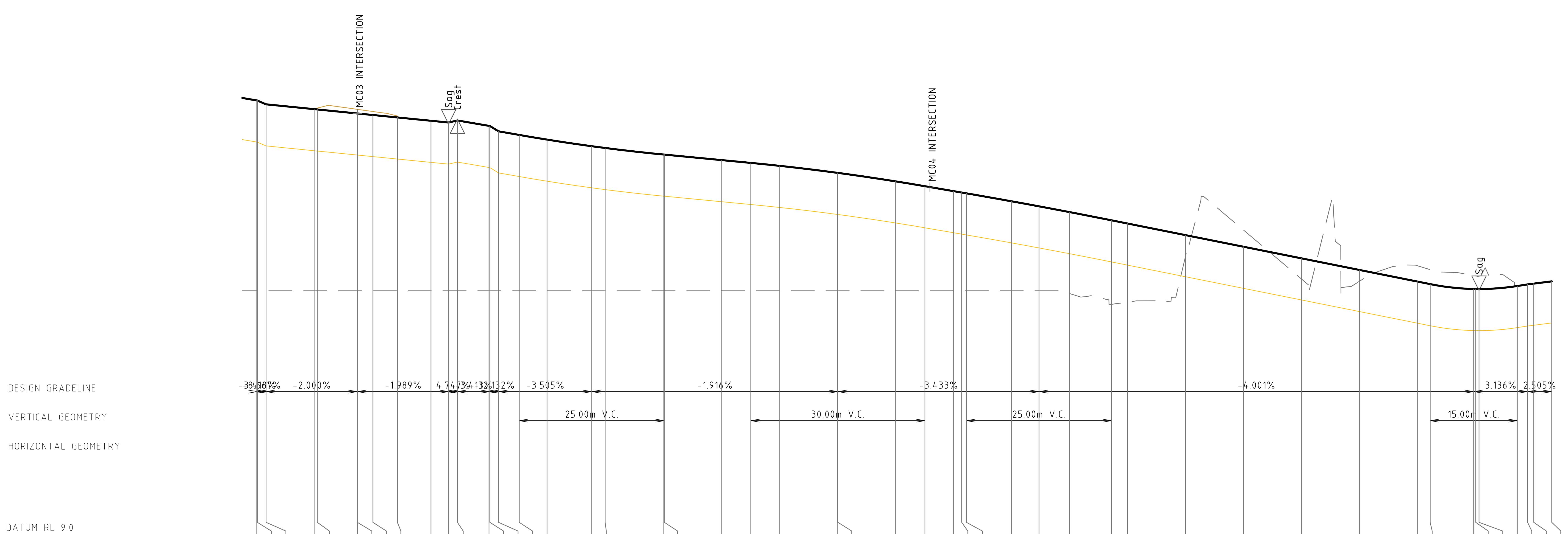


| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 320.000 | 24.023 | 22.591 | 17.47 |
| 320.083 | 24.02 | 22.588 | 17.47 |
| 321.583 | 23.89 | 22.458 | 17.47 |
| 330.000 | 23.721 | 22.289 | 17.47 |
| 330.416 | 23.713 | 22.281 | 17.47 |
| 337.316 | 23.575 | 22.143 | 17.47 |
| 337.316 | 23.575 | 22.143 | 17.47 |
| 340.000 | 23.522 | 22.09 | 17.47 |
| 344.217 | 23.438 | 22.006 | 17.47 |
| 350.000 | 23.323 | 21.891 | 17.47 |
| 353.050 | 23.262 | 21.83 | 17.47 |
| 354.550 | 23.333 | 21.901 | 17.47 |
| 360.000 | 23.147 | 21.715 | 17.47 |
| 360.150 | 23.142 | 21.71 | 17.47 |
| 361.649 | 22.96 | 21.528 | 17.47 |
| 365.203 | 22.836 | 21.404 | 17.47 |
| 370.000 | 22.675 | 21.243 | 17.47 |
| 377.703 | 22.447 | 21.015 | 17.47 |
| 380.000 | 22.387 | 20.955 | 17.47 |
| 390.000 | 22.162 | 20.73 | 17.47 |
| 390.203 | 22.158 | 20.726 | 17.47 |
| 400.000 | 21.97 | 20.538 | 17.47 |
| 405.106 | 21.872 | 20.44 | 17.47 |
| 410.000 | 21.773 | 20.341 | 17.47 |
| 420.000 | 21.531 | 20.099 | 17.47 |
| 420.106 | 21.528 | 20.096 | 17.47 |
| 430.000 | 21.239 | 19.807 | 17.47 |
| 435.106 | 21.07 | 19.638 | 17.47 |
| 440.000 | 20.902 | 19.47 | 17.47 |
| 441.434 | 20.853 | 19.421 | 17.47 |
| 442.254 | 20.825 | 19.393 | 17.47 |
| 450.000 | 20.552 | 19.12 | 17.47 |
| 454.754 | 20.378 | 18.946 | 17.47 |
| 460.000 | 20.18 | 18.748 | 17.377 |
| 467.254 | 19.896 | 18.464 | 17.001 |
| 470.000 | 19.786 | 18.354 | 17.073 |
| 480.000 | 19.386 | 17.954 | 18.659 |
| 490.000 | 18.986 | 17.554 | 19.559 |
| 500.000 | 18.586 | 17.154 | 17.873 |
| 510.000 | 18.185 | 16.753 | 17.803 |
| 520.000 | 17.785 | 16.353 | 18.33 |
| 522.154 | 17.699 | 16.267 | 18.198 |
| 529.654 | 17.533 | 16.102 | 17.994 |
| 530.000 | 17.532 | 16.1 | 17.981 |
| 530.562 | 17.531 | 16.099 | 17.973 |
| 537.154 | 17.634 | 16.202 | 17.634 |
| 538.929 | 17.69 | 16.258 | 17.69 |
| 540.000 | 17.717 | 16.285 | 17.718 |
| 543.097 | 17.794 | | 17.794 |

## LONGITUDINAL SECTION ALONG MC40

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

# NOT FOR CONSTRUCTION

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CLIENT: SEKISUI HOUSE

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SCALE 1:100 @ A1 0 1 2 3 4 5m

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PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

EARLY WORKS LONGITUDINAL SECTIONS SHEET 09

JOB NUMBER: 150077-60

DRAWING NUMBER: C03.39

REVISION: 03

DRAWING SHEET SIZE = A1

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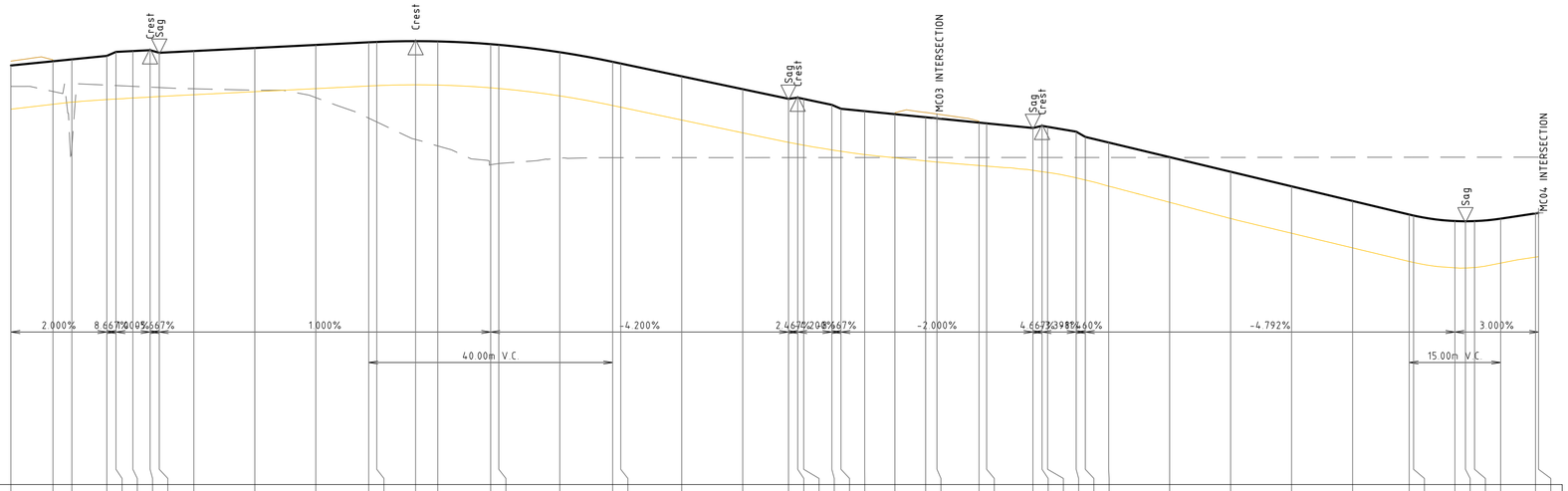
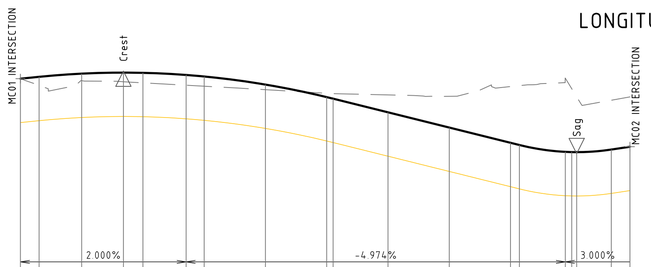



DATUM RL 6.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | 19.736 | 18.304 | 19.049 |
| 6.900 | 19.874 | 18.463 | 18.884 |
| 10.000 | 19.936 | 18.535 | 17.055 |
| 15.731 | 20.051 | 18.619 | 19.092 |
| 17.231 | 20.081 | 18.636 | 19.078 |
| 20.000 | 20.208 | 18.67 | 19.052 |
| 22.831 | 20.237 | 18.701 | 19.026 |
| 24.331 | 20.152 | 18.72 | 19.012 |
| 30.000 | 20.208 | 18.776 | 18.972 |
| 40.000 | 20.308 | 18.876 | 18.924 |
| 50.000 | 20.408 | 18.976 | 18.682 |
| 58.673 | 20.495 | 19.063 | 18.009 |
| 60.000 | 20.507 | 19.075 | 17.884 |
| 66.365 | 20.534 | 19.102 | 17.31 |
| 70.000 | 20.525 | 19.093 | 17.098 |
| 78.673 | 20.435 | 19.003 | 16.483 |
| 80.000 | 20.413 | 18.981 | 16.52 |
| 90.000 | 20.17 | 18.738 | 16.696 |
| 98.673 | 19.855 | 18.423 | 16.715 |
| 100.000 | 19.799 | 18.367 | 16.715 |
| 110.000 | 19.379 | 17.947 | 16.716 |
| 120.000 | 18.959 | 17.527 | 16.717 |
| 127.514 | 18.644 | 17.216 | 16.717 |
| 129.014 | 18.681 | 17.16 | 16.717 |
| 130.000 | 18.639 | 17.123 | 16.717 |
| 134.614 | 18.446 | 16.967 | 16.718 |
| 136.114 | 18.316 | 16.922 | 16.718 |
| 140.000 | 18.238 | 16.815 | 16.718 |
| 144.950 | 18.139 | 16.71 | 16.719 |
| 150.000 | 18.038 | 16.607 | 16.719 |
| 151.850 | 18.001 | 16.569 | 16.719 |
| 158.750 | 17.863 | 16.456 | 16.72 |
| 160.000 | 17.838 | 16.436 | 16.72 |
| 167.581 | 17.686 | 16.298 | 16.72 |
| 169.081 | 17.756 | 16.254 | 16.72 |
| 170.000 | 17.725 | 16.229 | 16.72 |
| 174.681 | 17.566 | 16.052 | 16.72 |
| 176.181 | 17.394 | 15.981 | 16.72 |
| 180.000 | 17.211 | 15.779 | 16.72 |
| 190.000 | 16.732 | 15.252 | 16.72 |
| 200.000 | 16.253 | 14.72 | 16.721 |
| 210.000 | 15.773 | 14.236 | 16.723 |
| 220.000 | 15.294 | 13.757 | 16.725 |
| 229.280 | 14.85 | 13.313 | 16.727 |
| 230.000 | 14.816 | 13.279 | 16.727 |
| 236.780 | 14.636 | 13.105 | 16.728 |
| 238.505 | 14.628 | 13.097 | 16.728 |
| 240.000 | 14.634 | 13.115 | 16.728 |
| 244.280 | 14.715 | 13.258 | 16.729 |
| 250.000 | 14.887 | 13.455 | 16.729 |
| 250.498 | 14.902 | 13.47 | 16.729 |

## LONGITUDINAL SECTION ALONG MC60

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

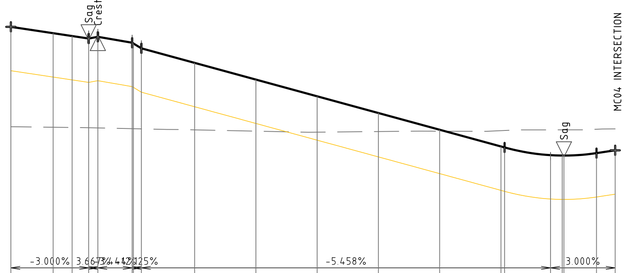



DATUM RL 14.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | 24.98 | 23.548 | 24.987 |
| 3.050 | 25.041 | 23.609 | 24.763 |
| 10.000 | 25.145 | 23.713 | 24.915 |
| 16.816 | 25.178 | 23.746 | 24.88 |
| 20.000 | 25.171 | 23.739 | 24.845 |
| 27.050 | 25.102 | 23.67 | 24.767 |
| 30.000 | 25.052 | 23.62 | 24.735 |
| 40.000 | 24.788 | 23.356 | 24.621 |
| 50.000 | 24.378 | 22.946 | 24.503 |
| 51.050 | 24.327 | 22.895 | 24.492 |
| 60.000 | 23.882 | 22.45 | 24.451 |
| 70.000 | 23.384 | 21.952 | 24.404 |
| 80.000 | 22.887 | 21.455 | 24.722 |
| 81.450 | 22.815 | 21.383 | 24.752 |
| 88.950 | 22.591 | 21.16 | 24.995 |
| 90.000 | 22.584 | 21.152 | 24.652 |
| 98.806 | 22.582 | 21.15 | 24.388 |
| 99.450 | 22.667 | 21.235 | 24.276 |
| 99.500 | 22.758 | 21.327 | 24.385 |

## LONGITUDINAL SECTION ALONG MC50

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1




DATUM RL 7.0

| CHAINAGE | FINISHED SURFACE | EARLY WORKS SURFACE | EXISTING SURFACE |
|---|---|---|---|
| 0.000 | 19.868 | 18.436 | 16.608 |
| 6.900 | 19.661 | 18.229 | 16.59 |
| 10.000 | 19.568 | 18.136 | 16.582 |
| 12.700 | 19.487 | 18.055 | 16.575 |
| 14.200 | 19.542 | 18.11 | 16.569 |
| 19.800 | 19.349 | 17.917 | 16.544 |
| 20.000 | 19.325 | 17.893 | 16.543 |
| 21.300 | 19.167 | 17.735 | 16.537 |
| 30.000 | 18.692 | 17.26 | 16.505 |
| 40.000 | 18.146 | 16.714 | 16.463 |
| 50.000 | 17.6 | 16.168 | 16.429 |
| 60.000 | 17.055 | 15.623 | 16.45 |
| 70.000 | 16.509 | 15.077 | 16.462 |
| 80.000 | 15.963 | 14.531 | 16.479 |
| 80.599 | 15.93 | 14.498 | 16.485 |
| 88.099 | 15.679 | 14.248 | 16.506 |
| 90.000 | 15.666 | 14.234 | 16.506 |
| 90.279 | 15.666 | 14.234 | 16.506 |
| 95.599 | 15.746 | 14.314 | 16.526 |
| 98.650 | 15.837 | 14.406 | 16.537 |

## LONGITUDINAL SECTION ALONG MC51

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DESIGNED: ARIVETT
DRAWN: B.MAZZA
JOB MANAGER: P.SUTTON
VERIFIER: -

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CLIENT
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SCALE 1:500@A1 0 5 10 15 20 25m
SCALE 1:100 @ A1 0 1 2 3 4 5m

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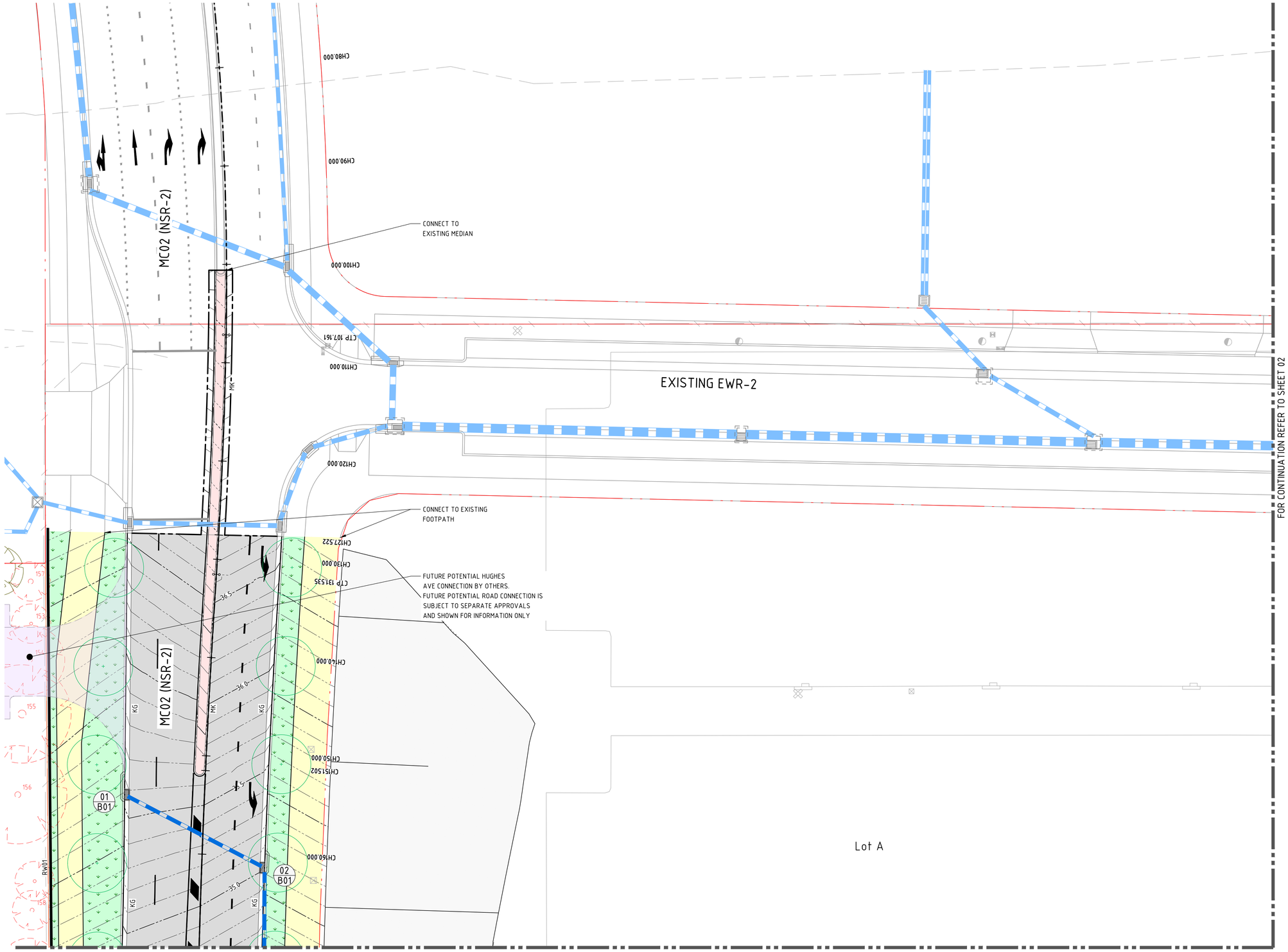
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
EARLY WORKS LONGITUDINAL SECTIONS SHEET 10

JOB NUMBER 150077-60
DRAWING NUMBER C03.40
REVISION 03
DRAWING SHEET SIZE = A1

Plotted: 06 Oct 2023 08:00:07 AM - Melrose Park Infrastructure DA - 2021\Drawings\cad\150077-60 CAD\DA\150077-60_C03.dwg




## LEGEND

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- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ (TPZ)
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- SAWCUT AND PAVEMENT INFILL
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- eXX — EXISTING KERB 'TYPE AS BELOW'
- KO — KERB ONLY
- KG — KERB AND GUTTER
- DD — DISH DRAIN
- ES — EDGE STRIP
- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
- MK — MOUNTABLE KERB
- KERB RAMP (VC)
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- CONTOURS (XX.XX)
- EXISTING CONTOURS (XXXX)
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIT TAG (1 / A)
- RETAINING WALL
- PRECAST CONCRETE HEADWALL (RW)
- LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
- HEAVY DUTY CONCRETE DRIVEWAY TO STD DWG DS9
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- CONCRETE MEDIAN INFILL
- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA | DESIGNED: A.RIVETT | JOB MANAGER: P.SUTTON | VERIFIER: -

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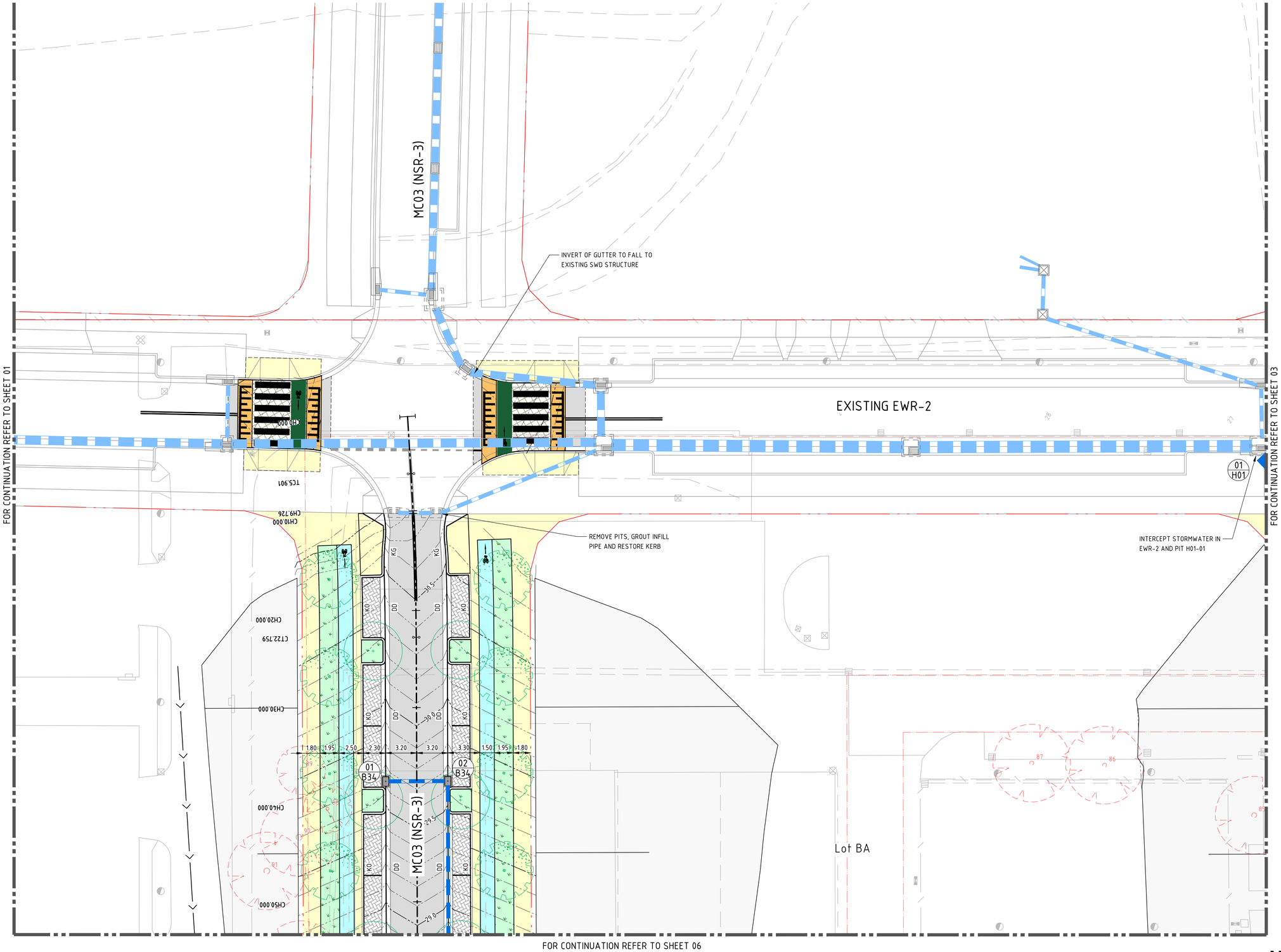
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 01

JOB NUMBER 150077-60
DRAWING NUMBER C04.01
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/02/2024 8:00:07 AM | By: Melissa Pyle | File: I:\150077\Drawings\Civil\150077-60 CAD\DA\150077-60_C04.01.dwg

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- MK — MOUNTABLE KERB
- KERB RAMP (VC)
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- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- CONTOURS (XX.XX)
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIT TAG (1 / A)
- RETAINING WALL (RW)
- PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS (LIMIT OF WORKS)
- FLEXIBLE ROAD PAVEMENT
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- CONCRETE MEDIAN INFILL
- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA | DESIGNED: A.RIVETT | JOB MANAGER: P.SUTTON | VERIFIER: -

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PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 02

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.02
REVISION: 06
DRAWING SHEET SIZE = A1

Plotted: Thursday, 28 March 2024 - 8:07:40 AM by Brandon Mazza
File Name: J:\150077_Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\DA\150077-60_C04.02.dwg

EXISTING PIPE TO BE DISUSED AND GROUT-INFILLED

REMOVE PITS, GROUT INFILL PIPE AND RESTORE KERB

EXISTING EWR-2

WHARF ROAD

FOR CONTINUATION REFER TO SHEET 02

FOR CONTINUATION REFER TO SHEET 07

Lot BB

EXISTING LAYBACK TO BE REMOVED

MC04 (NSR-4)

CH0.000
CH10.000
CH9.711
CH20.000
CH30.000
CH40.000
CH50.000
TC12.858
TC23.915

02 H01
03 H01
04 H01
01 B50

KG
KO
DD

2.00 2.20 2.30 3.50 3.50 2.30 2.20 2.00

## LEGEND

- PROPOSED BOUNDARY LINE
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- ES EDGE STRIP
- KG300 KERB AND GUTTER WITH 300 WIDE TOP
- MK MOUNTABLE KERB
- KERB RAMP
- VC VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 CONTROL LINE
- BATTERS
- XX.XX CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE
- ø150 PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- 1 A STORMWATER PIT TAG
- RETAINING WALL
- RW PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
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DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 03

JOB NUMBER 150077-60
DRAWING NUMBER C04.03
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 14/12/2023 8:00:07 AM By: Benjamin Mazza File: J:\150077-Melrose Park Infrastructure DA - 2021\3-Drawings\Civil\150077-3D CAD\04 Plan\150077-3D_C04.03.dwg

INTERCEPT DRAINAGE FROM ADJOINING SITE

TEMPORARY DRAINAGE TO DRAIN ADJOINING SITE

MC01 (EWR-3)

MC01 (NSR-1)

Lot C

TEMPORARY 900x900 RSIP AT LOW POINT TO DRAIN LOT C

FOR CONTINUATION REFER TO SHEET 05

FOR CONTINUATION REFER TO SHEET 09

## LEGEND

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DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

SITEWORKS GRADING & STORMWATER PLAN SHEET 04

JOB NUMBER: 150077-60

DRAWING NUMBER: C04.04

REVISION: 06

DRAWING SHEET SIZE = A1

Plotted: 8/03/2023 8:00:27 AM - Melrose Park Infrastructure DA - 150077-Drawings\Civil\150077-60 CAD\Plan\150077-60_C04.01.dwg

FOR CONTINUATION REFER TO SHEET 01

FOR CONTINUATION REFER TO SHEET 04

FOR CONTINUATION REFER TO SHEET 06

FOR CONTINUATION REFER TO SHEET 10

MC02 (NSR-2)

MC30 (EWR-3)

MC02 (NSR-2)

Lot D

TEMPORARY SWALES TO BE CONSTRUCTED WITHIN SUPERLOTS TO ENSURE EACH LOT IS FREE DRAINING (TYP.)

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DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 05

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.05
REVISION: 06
DRAWING SHEET SIZE = A1

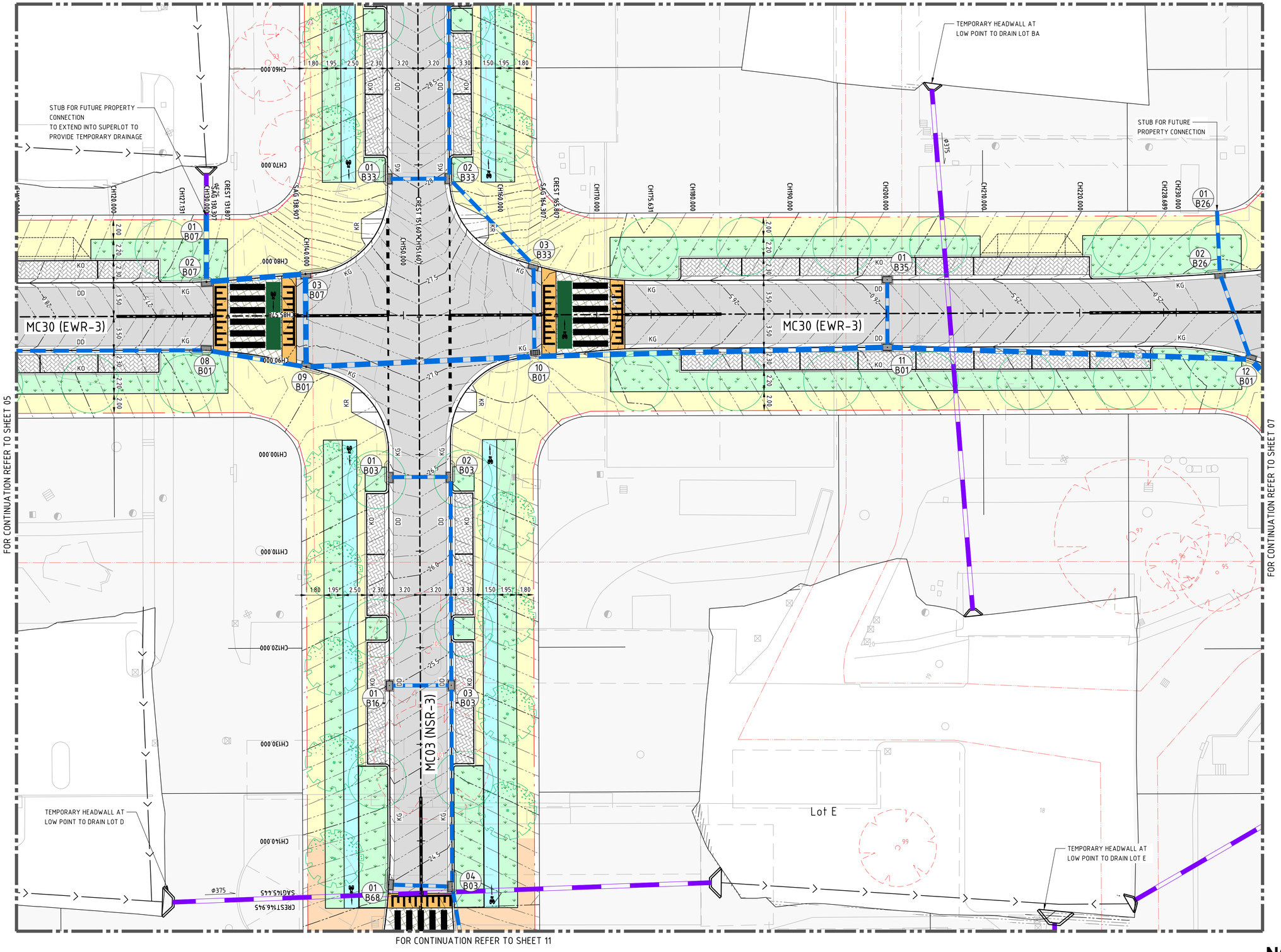
Plotted: 14/02/2023 8:00:07 AM | By: Matthew Mazza | File: J:\150077-Melrose Park Infrastructure DA - 2021\3-Drawings\3D-Civil\150077-MP CADD\150077-C04.05.dwg

FOR CONTINUATION REFER TO SHEET 02

FOR CONTINUATION REFER TO SHEET 05

FOR CONTINUATION REFER TO SHEET 07

FOR CONTINUATION REFER TO SHEET 11




## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ
- PROPOSED TREES
- SAWCUT AND PAVEMENT INFILL
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- eXX EXISTING KERB 'TYPE AS BELOW'
- KO KERB ONLY
- KG KERB AND GUTTER
- DD DISH DRAIN
- ES EDGE STRIP
- KG300 KERB AND GUTTER WITH 300 WIDE TOP
- MK MOUNTABLE KERB
- KERB RAMP
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 CONTROL LINE
- BATTERS
- CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIT TAG
- RETAINING WALL
- PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
- HEAVY DUTY CONCRETE DRIVEWAY TO STD DWG DS9
- CONCRETE PAVEMENT WITH HIGHLIGHTS AS DIRECTED BY COUNCIL
- ASPHALT CYCLEWAY TO MELROSE PARK PUBLIC DOMAIN GUIDELINES
- CONCRETE ROUNDABOUT TO STD DWG DS17 (ANNULUS)
- CONCRETE ROUNDABOUT WITH PATTERN FINISH TO STD DWG DS17
- CONCRETE THRESHOLD RAMP
- PAVED RAISED THRESHOLD/CROSSING
- CONCRETE MEDIAN INFILL
- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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| 06 | REISSUED FOR DA | BM | | AR | 26.09.23 |

CLIENT
SEKISUI HOUSE
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SCALE 1:200@ A1 (0 2 4 6 8 10m)

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

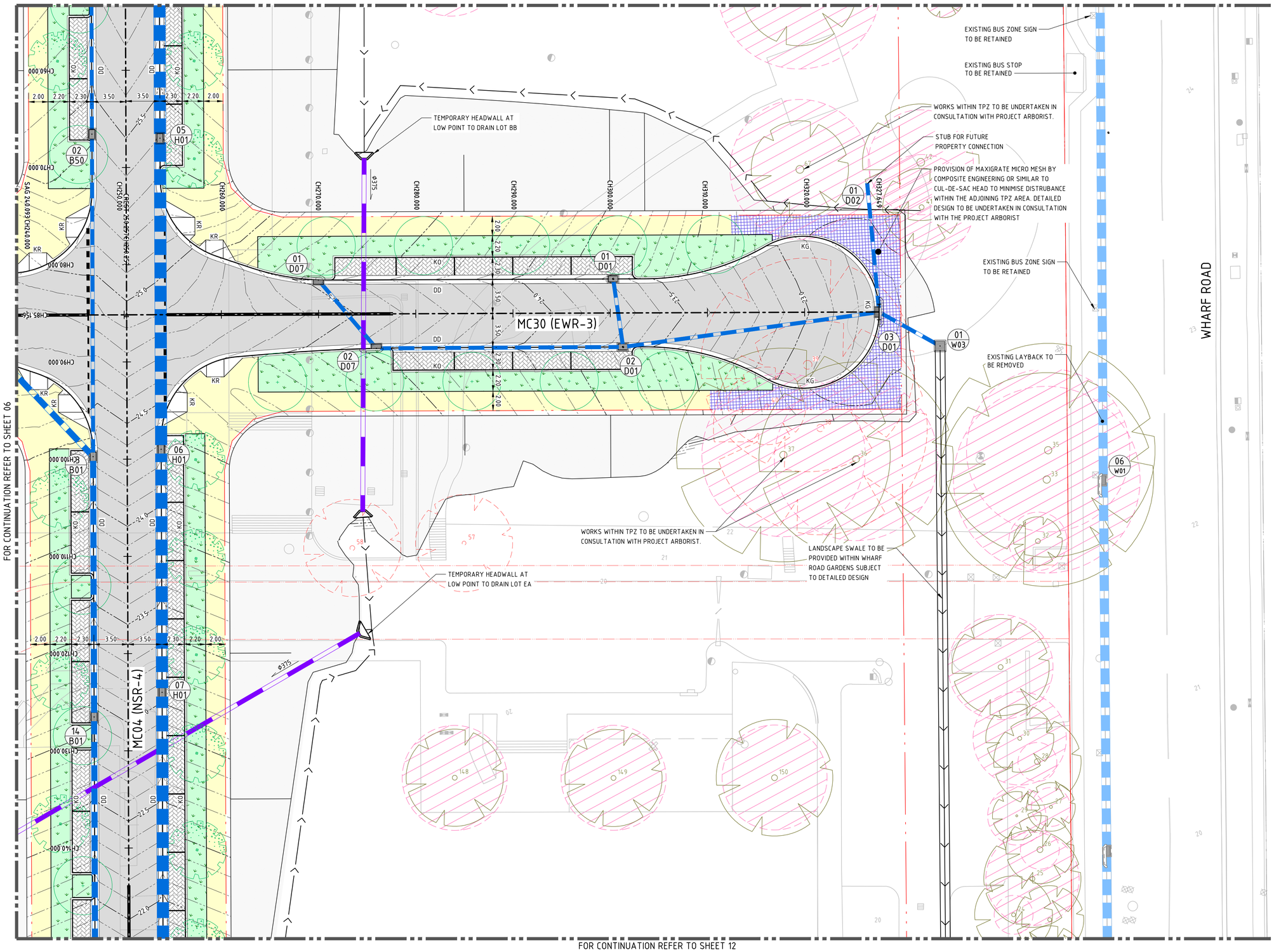
DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SITEWORKS GRADING & STORMWATER PLAN SHEET 06

JOB NUMBER 150077-60
DRAWING NUMBER C04.06
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 26/09/2023 7:07 - Melrose Park Infrastructure DA - 150077-60 Drawings\Civil\150077-60 - SITEWORKS GRADING & STORMWATER PLAN SHEET 06.dwg

FOR CONTINUATION REFER TO SHEET 03

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- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ
- PROPOSED TREES
- SAWCUT AND PAVEMENT INFILL
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- eXX — EXISTING KERB 'TYPE AS BELOW'
- KO — KERB ONLY
- KG — KERB AND GUTTER
- DD — DISH DRAIN
- ES — EDGE STRIP
- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
- MK — MOUNTABLE KERB
- KERB RAMP
- VC — VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIT TAG (1 / A)
- RETAINING WALL
- PRECAST CONCRETE HEADWALL (RW)
- LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
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- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA | DESIGNED: A.RIVETT | JOB MANAGER: P.SUTTON | VERIFIER: -

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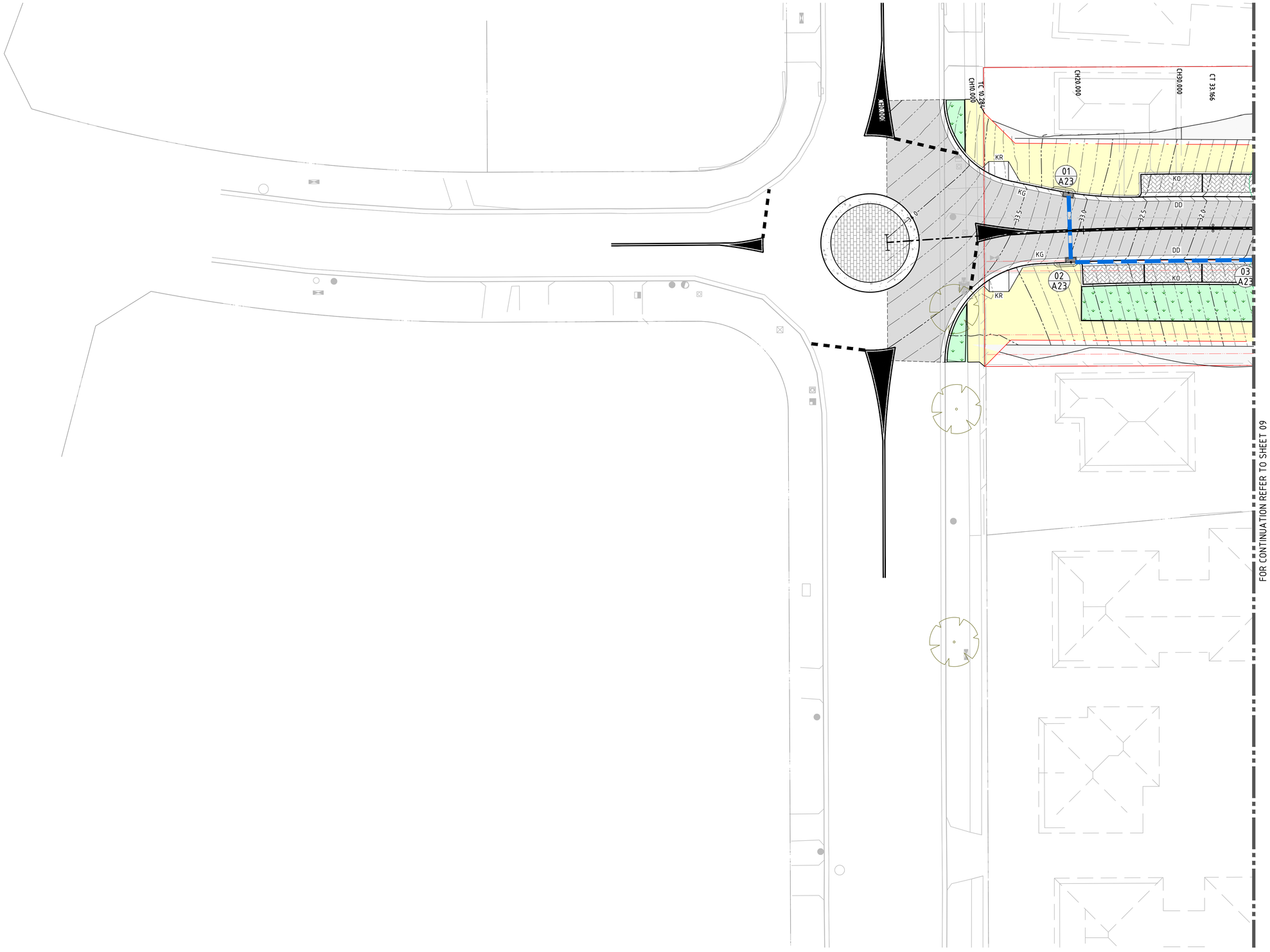
PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 07

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.07
REVISION: 06
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 8:00:00 AM - Melrose Park Infrastructure DA - 150077-60 Drawings\Civil\150077-60 - AR\C04.07.dwg




## LEGEND

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- KG — KERB AND GUTTER
- DD — DISH DRAIN
- ES — EDGE STRIP
- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
- MK — MOUNTABLE KERB
- KERB RAMP (VC)
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- CONTOURS (XX.XX)
- EXISTING CONTOURS (XXXX)
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- 1/A — STORMWATER PIT TAG
- RETAINING WALL
- RW — PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS
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- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**SITEWORKS GRADING & STORMWATER PLAN SHEET 08**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.08**
REVISION **06**
DRAWING SHEET SIZE = A1

Plotted: Fri,10/03/2023 8:50:07 AM - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\01 ISSUED\150077-60_C04.08.dwg

FOR CONTINUATION REFER TO SHEET 04

FOR CONTINUATION REFER TO SHEET 08

FOR CONTINUATION REFER TO SHEET 10

FOR CONTINUATION REFER TO SHEET 13

STUB FOR FUTURE DRAINAGE CONNECTION

STUB FOR FUTURE PROPERTY CONNECTION

MC40 (EWR-4)

MC40 (EWR-4)

MC01 (NSR-1)

PROPOSED TREE PLANTING TO BE LOCATED MIN 0.5M CLEAR OF DRAINAGE CHANNEL INVERT

TEMPORARY HEADWALL AT LOW POINT TO DRAIN LOT F

CH40.000 CH50.000 TC 54.189 CT 57.102 CH60.000 CH70.000 CH80.000 CH90.000 CH100.000 CH110.000 CH120.000 CH130.000 CREST 61.874 CH140.000 CH150.000 CH160.000 CH170.000 CH176.086 CH180.000 CH190.000 CH200.000 CH210.000 CH220.000 CH230.000 CH240.000

CREST 65.966 CH155.966 SAG 87.469 SAG 89.466

Ø375

## LEGEND

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- KG300 KERB AND GUTTER WITH 300 WIDE TOP
- MK MOUNTABLE KERB
- KERB RAMP
- VC VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 CONTROL LINE
- BATTERS
- XX.XX CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE
- Ø150 PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- 1 A STORMWATER PIT TAG
- RETAINING WALL
- RW PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
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- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 09

JOB NUMBER 150077-60
DRAWING NUMBER C04.09
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 26/09/2023 07:02 - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\01 CAD\150077-60_C04.01.dwg

FOR CONTINUATION REFER TO SHEET 05

FOR CONTINUATION REFER TO SHEET 09

FOR CONTINUATION REFER TO SHEET 11

FOR CONTINUATION REFER TO SHEET 14

TRANSITION TO KERB-AND-TOE AT HIGH SIDE OF ROUNDABOUT

R6.9m ROUNDABOUT
4m CIRCULATING CARRIAGEWAY

MC40 (EWR-4)

MC02 (NSR-2)

PROPOSED TREE PLANTING TO BE LOCATED MIN 0.5M CLEAR OF DRAINAGE CHANNEL INVERT

PROPOSED TREE PLANTING TO BE LOCATED MIN 0.5M CLEAR OF DRAINAGE CHANNEL INVERT

## LEGEND

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DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 10

JOB NUMBER 150077-60
DRAWING NUMBER C04.10
REVISION 06
DRAWING SHEET SIZE = A1

FOR CONTINUATION REFER TO SHEET 06

FOR CONTINUATION REFER TO SHEET 10

FOR CONTINUATION REFER TO SHEET 12

FOR CONTINUATION REFER TO SHEET 14

STUB FOR FUTURE PROPERTY CONNECTION

TRANSITION TO KERB-AND-TOE AT HIGH SIDE OF ROUNDABOUT

R6.9m ROUNDABOUT
4m CIRCULATING CARRIAGEWAY

STUB FOR FUTURE PROPERTY CONNECTION

MC40 (EWR-4)

MC40 (EWR-4)

MC03 (NSR-3)

PROPOSED TREE PLANTING TO BE LOCATED MIN 0.5M CLEAR OF DRAINAGE CHANNEL INVERT

CONSTRUCT TEMPORARY BUND AT RL 16.7M TO DIVERT TEMPORARY DRAINAGE

TEMPORARY HEADWALL AT LOW POINT TO DRAIN LOT EB

LOW FLOW DIVERSION PIT SUBJECT TO DETAILED DESIGN

## LEGEND

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- SAWCUT AND PAVEMENT INFILL
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- eXX EXISTING KERB 'TYPE AS BELOW'
- KO KERB ONLY
- KG KERB AND GUTTER
- DD DISH DRAIN
- ES EDGE STRIP
- KG300 KERB AND GUTTER WITH 300 WIDE TOP
- MK MOUNTABLE KERB
- VC KERB RAMP
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 CONTROL LINE
- BATTERS
- CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE ø150
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- 1 A STORMWATER PIT TAG
- RETAINING WALL
- RW PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
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- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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CLIENT
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Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 11

JOB NUMBER 150077-60
DRAWING NUMBER C04.11
REVISION 06
DRAWING SHEET SIZE = A1

FOR CONTINUATION REFER TO SHEET 07

Lot EA

TRANSITION TO KERB-AND-TOE AT HIGH SIDE OF INTERSECTION

MC40 (EWR-4)

MC04 (NSR-4)

PROPOSED TREE PLANTING TO BE LOCATED MIN 0.5M CLEAR OF DRAINAGE CHANNEL INVERT

EXISTING TREES TO BE RETAINED

STUB FOR FUTURE PROPERTY CONNECTION

Lot EC

EXISTING COMMUNICATIONS PILLAR TO BE RETAINED

EXISTING LAYBACK TO BE REMOVED

WHARF ROAD

TEMPORARY PIPE CONNECTION DRAINING LOT EB TO PIT B03-13

FOR CONTINUATION REFER TO SHEET 11

FOR CONTINUATION REFER TO SHEET 16

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ
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- ES — EDGE STRIP
- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
- MK — MOUNTABLE KERB
- KERB RAMP
- VC — VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- XX.XX — CONTOURS
- EXISTING CONTOURS
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DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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ARCHITECT

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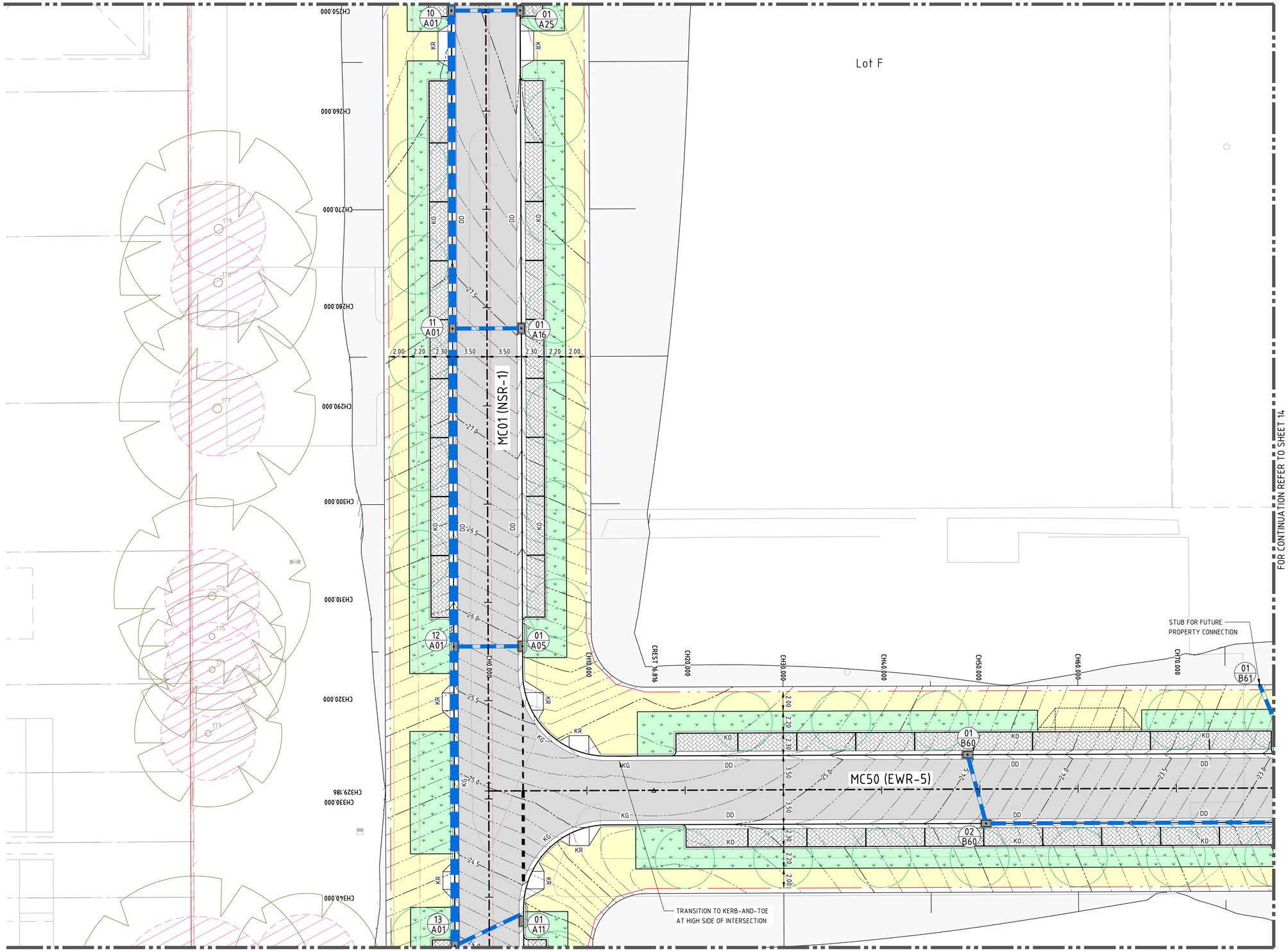
PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 12

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.12
REVISION: 06
DRAWING SHEET SIZE = A1

FOR CONTINUATION REFER TO SHEET 09




FOR CONTINUATION REFER TO SHEET 14

FOR CONTINUATION REFER TO SHEET 17

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
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- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
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- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- CONTOURS (XX.XX)
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
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DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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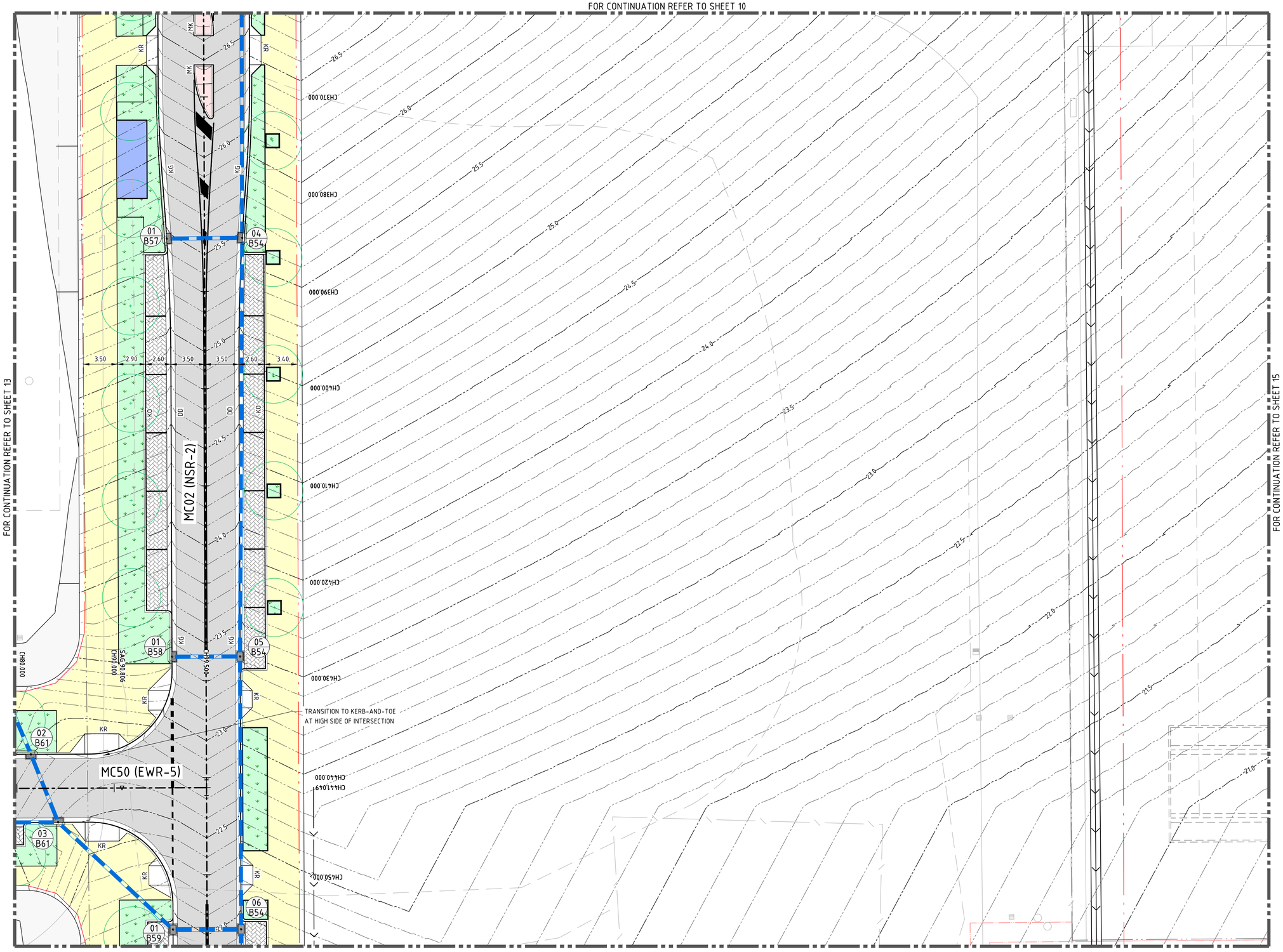
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 13

JOB NUMBER 150077-60
DRAWING NUMBER C04.13
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:00:17 AM - Melrose Park Infrastructure DA - 150770\drawings\Civil\150077-60 C04.13 SITEWORKS GRADING AND STORMWATER PLAN SHEET 13.dwg

FOR CONTINUATION REFER TO SHEET 10




FOR CONTINUATION REFER TO SHEET 13

FOR CONTINUATION REFER TO SHEET 15

FOR CONTINUATION REFER TO SHEET 18

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ
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- BATTERS
- CONTOURS
- EXISTING CONTOURS
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- PROPOSED STORMWATER PIPE
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- LIMIT OF WORKS
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- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
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- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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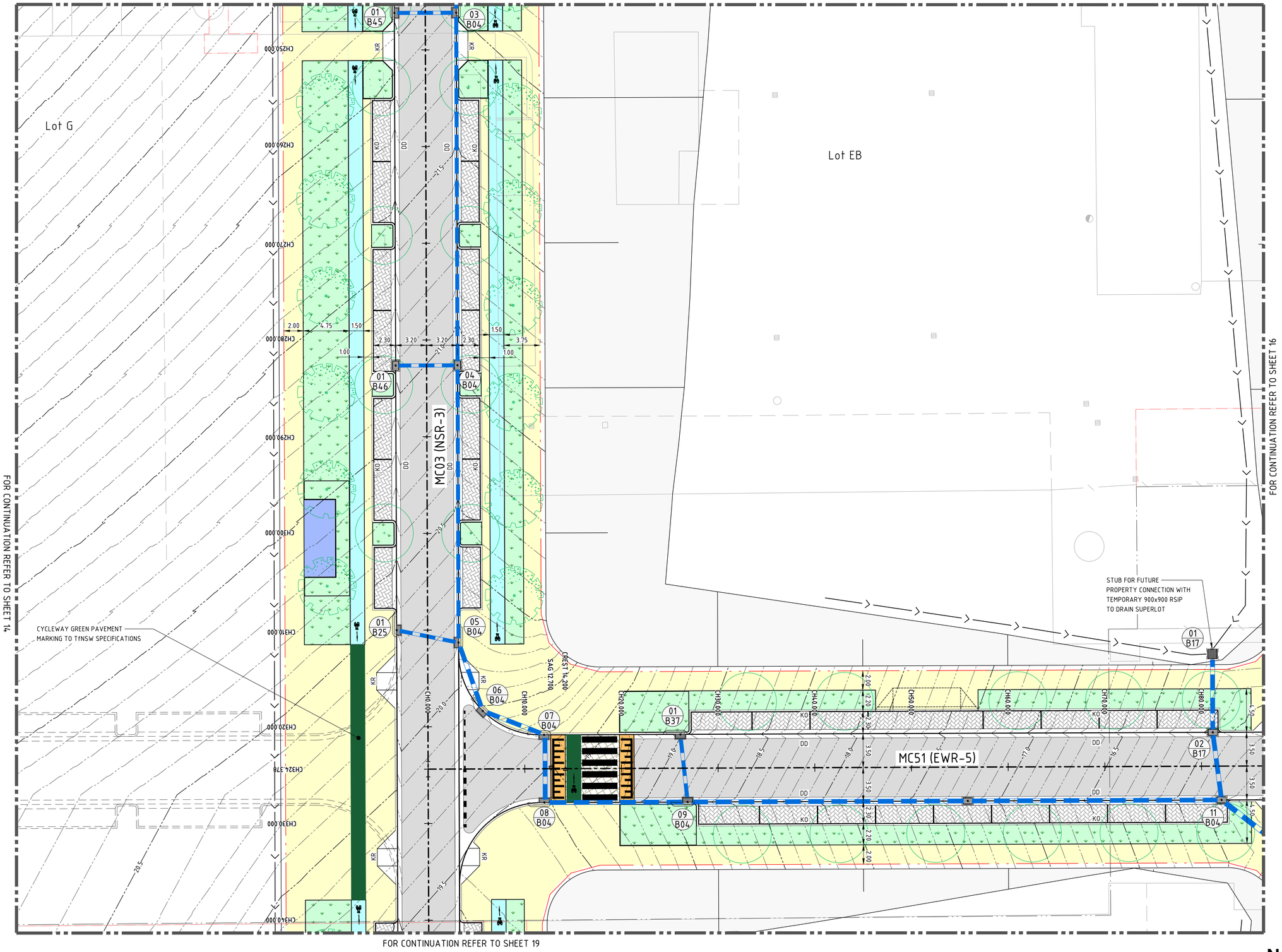
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 14

JOB NUMBER 150077-60
DRAWING NUMBER C04.14
REVISION 06
DRAWING SHEET SIZE = A1

FOR CONTINUATION REFER TO SHEET 11




## LEGEND

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DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

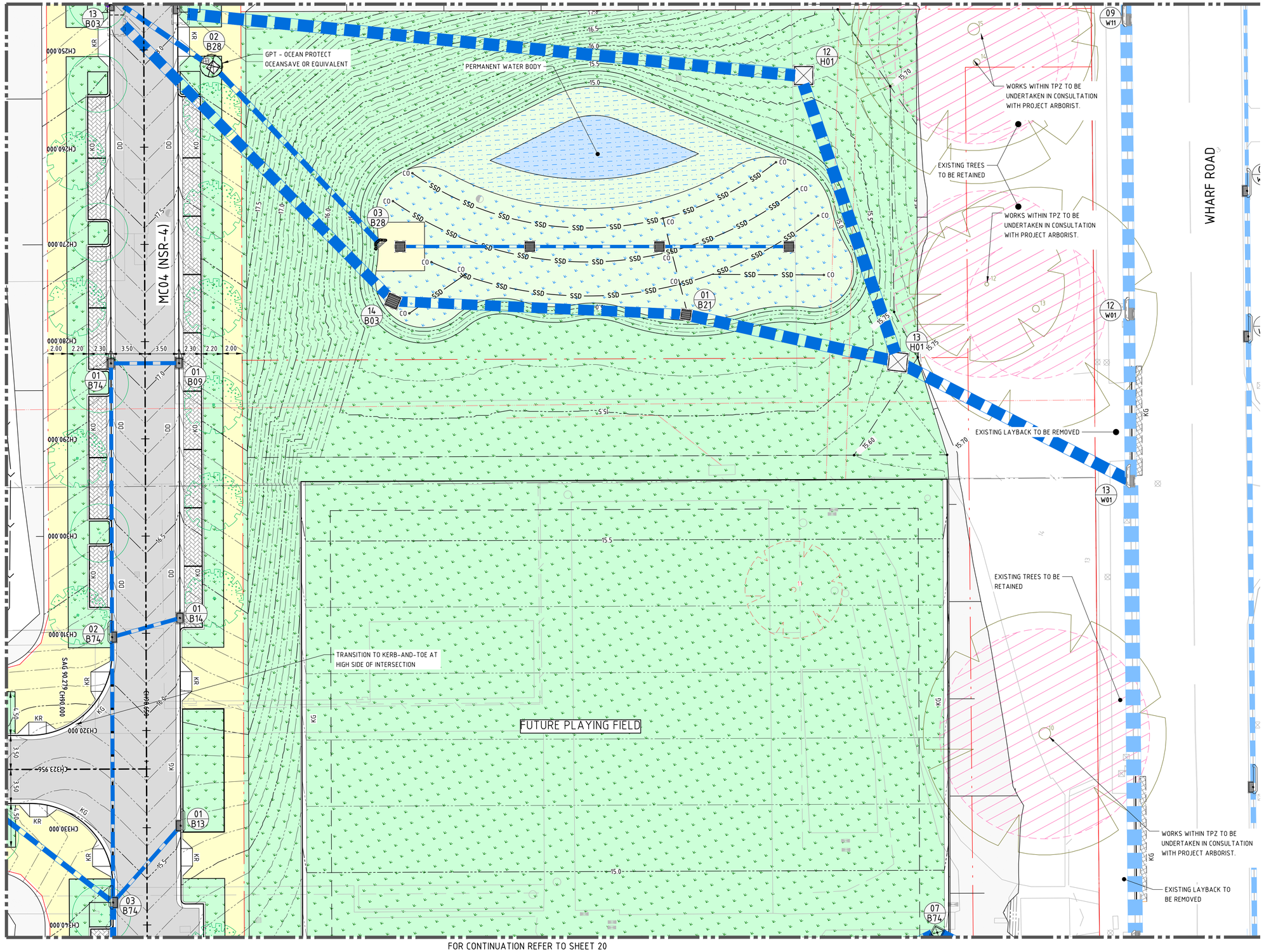
DRAWING TITLE: CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 15

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.15
REVISION: 06
DRAWING SHEET SIZE = A1

Plotted: 14 Dec 2023 at 10:07:37 AM by Brendan Mazza
C:\Users\brendan.mazza\Documents\DA - 150770 Drawings\Civil\150077-60 CIVIL_CENTRAL.dwg

FOR CONTINUATION REFER TO SHEET 12

FOR CONTINUATION REFER TO SHEET 15




FOR CONTINUATION REFER TO SHEET 20

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
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DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | AP | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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SEKISUI HOUSE
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SCALE 1:200@ A1 (0 2 4 6 8 10m)

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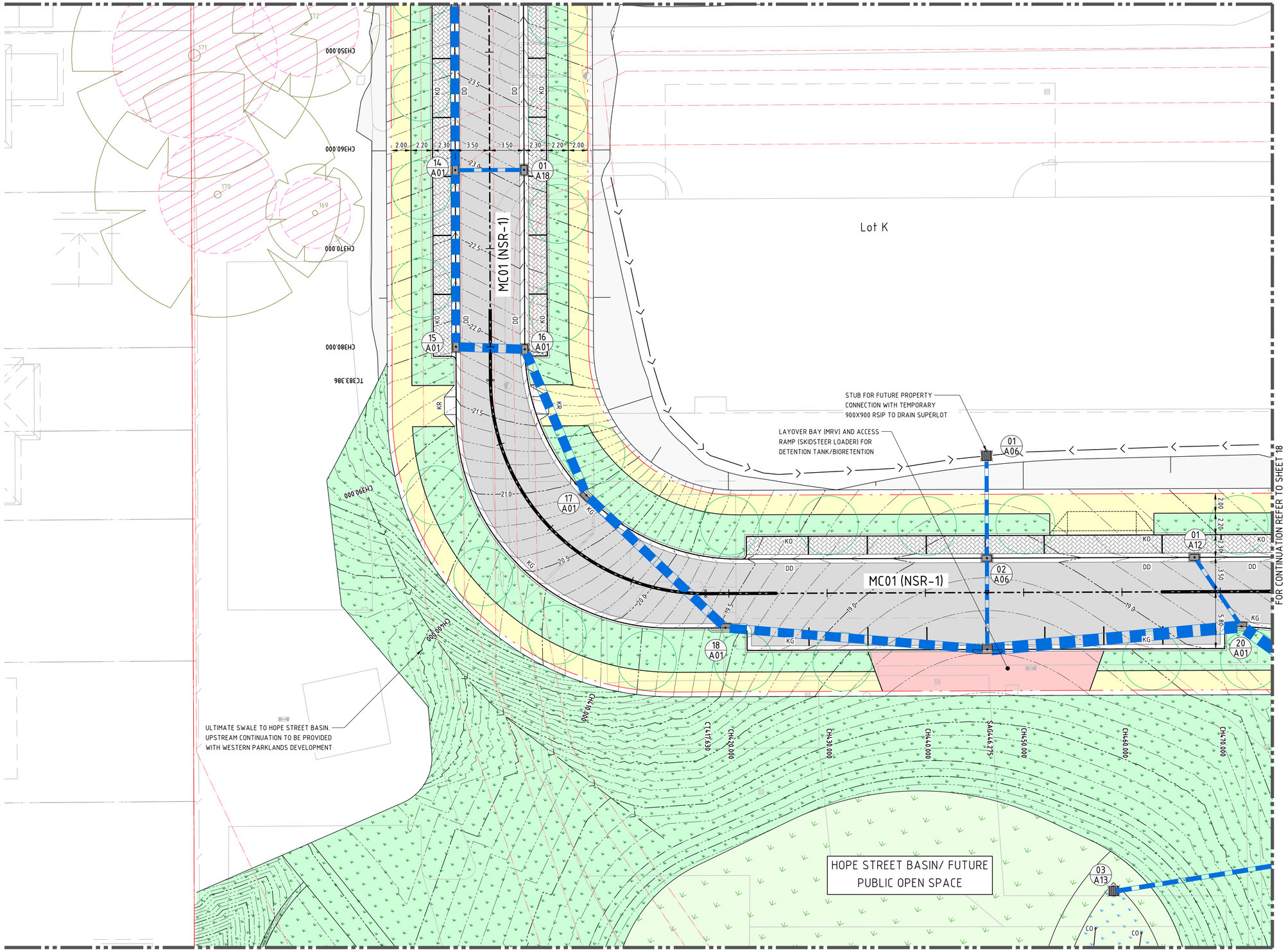
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 16

JOB NUMBER 150077-60
DRAWING NUMBER C04.16
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:00:17 AM - Melrose Park Infrastructure DA - 150077-60 Drawings\C-Civil\150077-60 C04.16 SITEWORKS GRADING & STORMWATER PLAN SHEET 16.dwg

FOR CONTINUATION REFER TO SHEET 13




FOR CONTINUATION REFER TO SHEET 18

FOR CONTINUATION REFER TO SHEET 21

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ (TPZ)
- PROPOSED TREES
- SAWCUT AND PAVEMENT INFILL
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- eXX — EXISTING KERB 'TYPE AS BELOW'
- KO — KERB ONLY
- KG — KERB AND GUTTER
- DD — DISH DRAIN
- ES — EDGE STRIP
- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
- MK — MOUNTABLE KERB
- KERB RAMP (VC)
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- CONTOURS (XX.XX)
- EXISTING CONTOURS (XXXX)
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- 1 A — STORMWATER PIT TAG
- RETAINING WALL
- RW — PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
- HEAVY DUTY CONCRETE DRIVEWAY TO STD DWG DS9
- CONCRETE PAVEMENT WITH HIGHLIGHTS AS DIRECTED BY COUNCIL
- ASPHALT CYCLEWAY TO MELROSE PARK PUBLIC DOMAIN GUIDELINES
- CONCRETE ROUNDABOUT TO STD DWG DS17 (ANNULUS)
- CONCRETE ROUNDABOUT WITH PATTERN FINISH TO STD DWG DS17
- CONCRETE THRESHOLD RAMP
- PAVED RAISED THRESHOLD/CROSSING
- CONCRETE MEDIAN INFILL
- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**SITEWORKS GRADING & STORMWATER PLAN SHEET 17**

JOB NUMBER **150077-60**

DRAWING NUMBER **C04.17** REVISION **08**

DRAWING SHEET SIZE = A1

Plotted: 7 Nov 2023 8:00:27 AM By: Brandon Mazza File: Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\Architectural\150077-60_C04.17.dwg

FOR CONTINUATION REFER TO SHEET 14

FOR CONTINUATION REFER TO SHEET 17

FOR CONTINUATION REFER TO SHEET 19

FOR CONTINUATION REFER TO SHEET 21

MC02 (NSR-2)

MC60 (EWR-6)

R6.9m ROUNDABOUT
4m CIRCULATING CARRIAGEWAY

LOW FLOW DIVERSION PIT
SUBJECT TO DETAILED DESIGN

GPT - OCEAN PROTECT
OCEANSAVE OR EQUIVALENT

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ
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- SAWCUT AND PAVEMENT INFILL
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- KG — KERB AND GUTTER
- DD — DISH DRAIN
- ES — EDGE STRIP
- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
- MK — MOUNTABLE KERB
- KERB RAMP
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- CONTROL LINE
- BATTERS
- CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIT TAG
- RETAINING WALL
- PRECAST CONCRETE HEADWALL
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- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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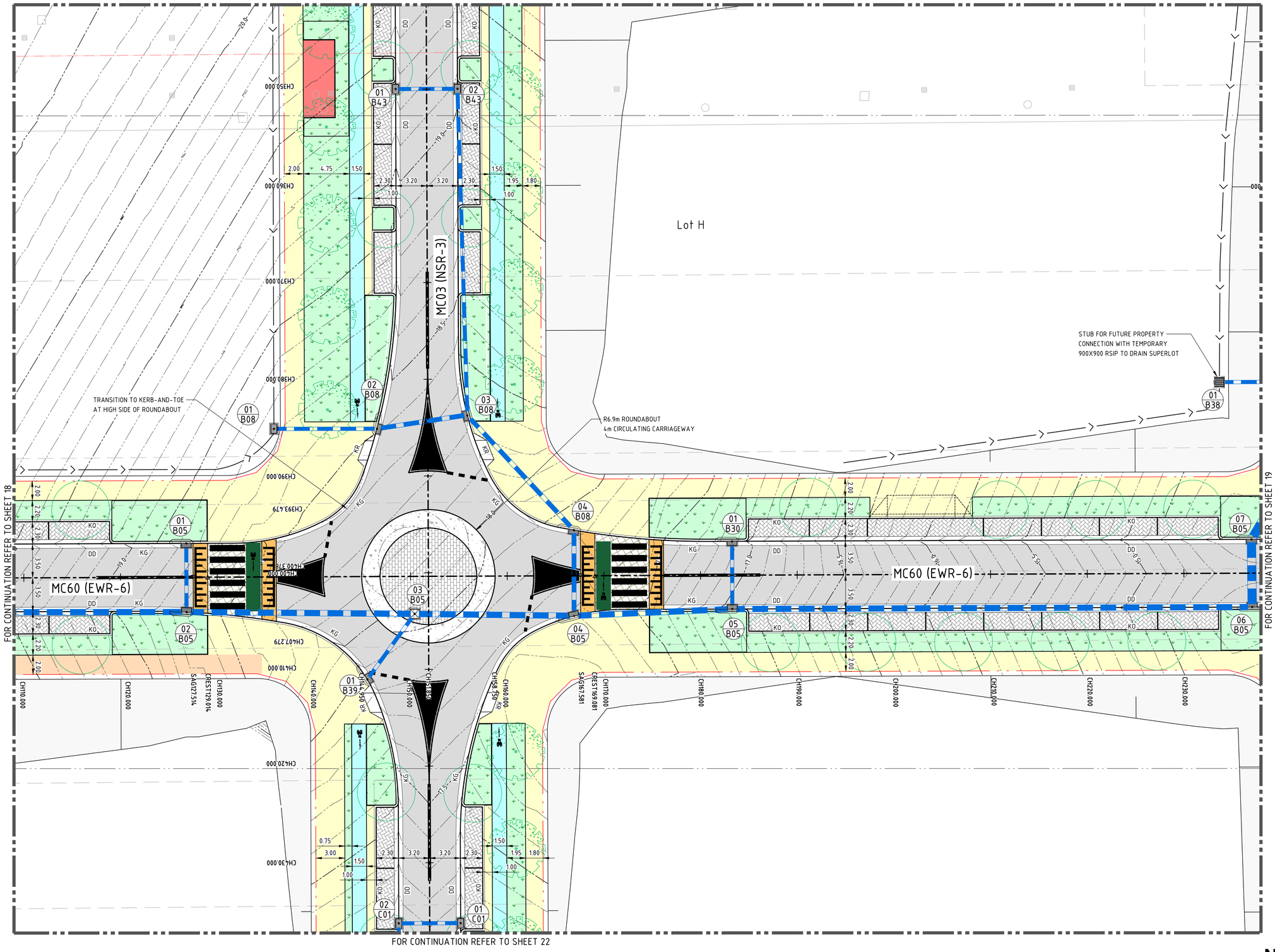
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 18

JOB NUMBER 150077-60
DRAWING NUMBER C04.18
REVISION 07
DRAWING SHEET SIZE = A1

FOR CONTINUATION REFER TO SHEET 13

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- CONTROL LINE
- BATTERS
- CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
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- FUTURE GAMES COURTS
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VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 19

JOB NUMBER 150077-60
DRAWING NUMBER C04.19
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 14 Jun 2023 - 8:30:57 AM by Brendan Mazza
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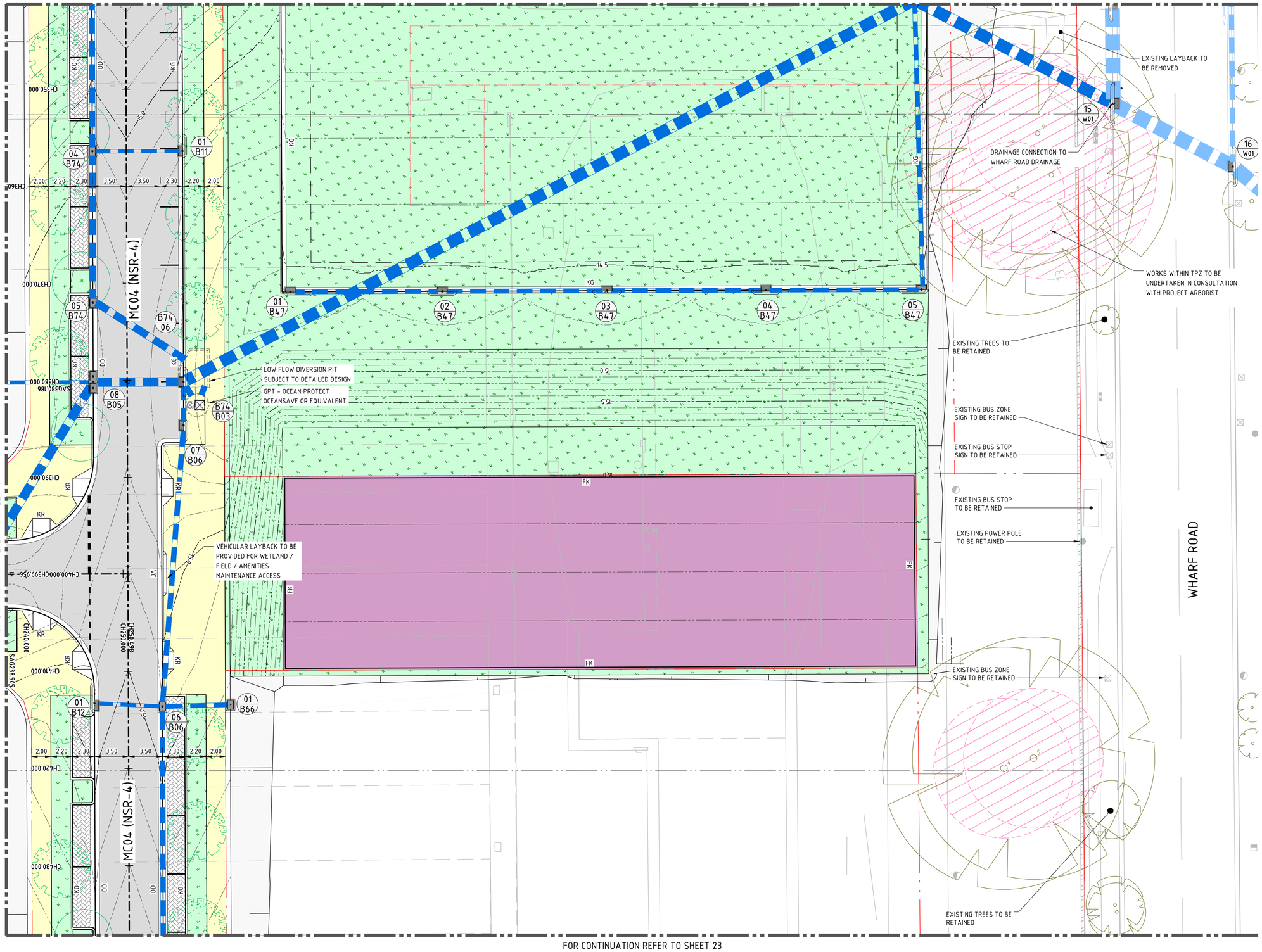
FOR CONTINUATION REFER TO SHEET 16




FOR CONTINUATION REFER TO SHEET 19

FOR CONTINUATION REFER TO SHEET 23

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

## LEGEND

- PROPOSED BOUNDARY LINE
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- DD DISH DRAIN
- ES EDGE STRIP
- KG300 KERB AND GUTTER WITH 300 WIDE TOP
- MK MOUNTABLE KERB
- VC KERB RAMP
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 CONTROL LINE
- BATTERS
- XX.XX CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- 1 / A STORMWATER PIT TAG
- RETAINING WALL
- RW PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
- HEAVY DUTY CONCRETE DRIVEWAY TO STD DWG DS9
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- CONCRETE ROUNDABOUT TO STD DWG DS17 (ANNULUS)
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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 20

JOB NUMBER 150077-60
DRAWING NUMBER C04.20
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 26/09/2023 - 8:01:00 AM by Brendan Mazza
File Name: P:\150077-60\Civil\Drawings\C-Civil\150077-60 C04.20 SITEWORKS GRADING & STORMWATER PLAN SHEET 20.dwg

FOR CONTINUATION REFER TO SHEET 18

TIERED LANDSCAPE WALLS SUBJECT TO DETAILED LANDSCAPE DESIGN AS PART OF SEPARATE PACKAGE OF WORKS

STORMWATER ARRANGEMENT SUBJECT TO FUTURE LANDSCAPE DETAILED DESIGN

FOR CONTINUATION REFER TO SHEET 22

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

## LEGEND

- PROPOSED BOUNDARY LINE
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DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 21

JOB NUMBER 150077-60
DRAWING NUMBER C04.21
REVISION 08
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:08:07 AM - Melrose Park Infrastructure DA - 2021\3 Drawings\Civil\150077-60 CAD\01 Civil\150077-60_C04.21.dwg

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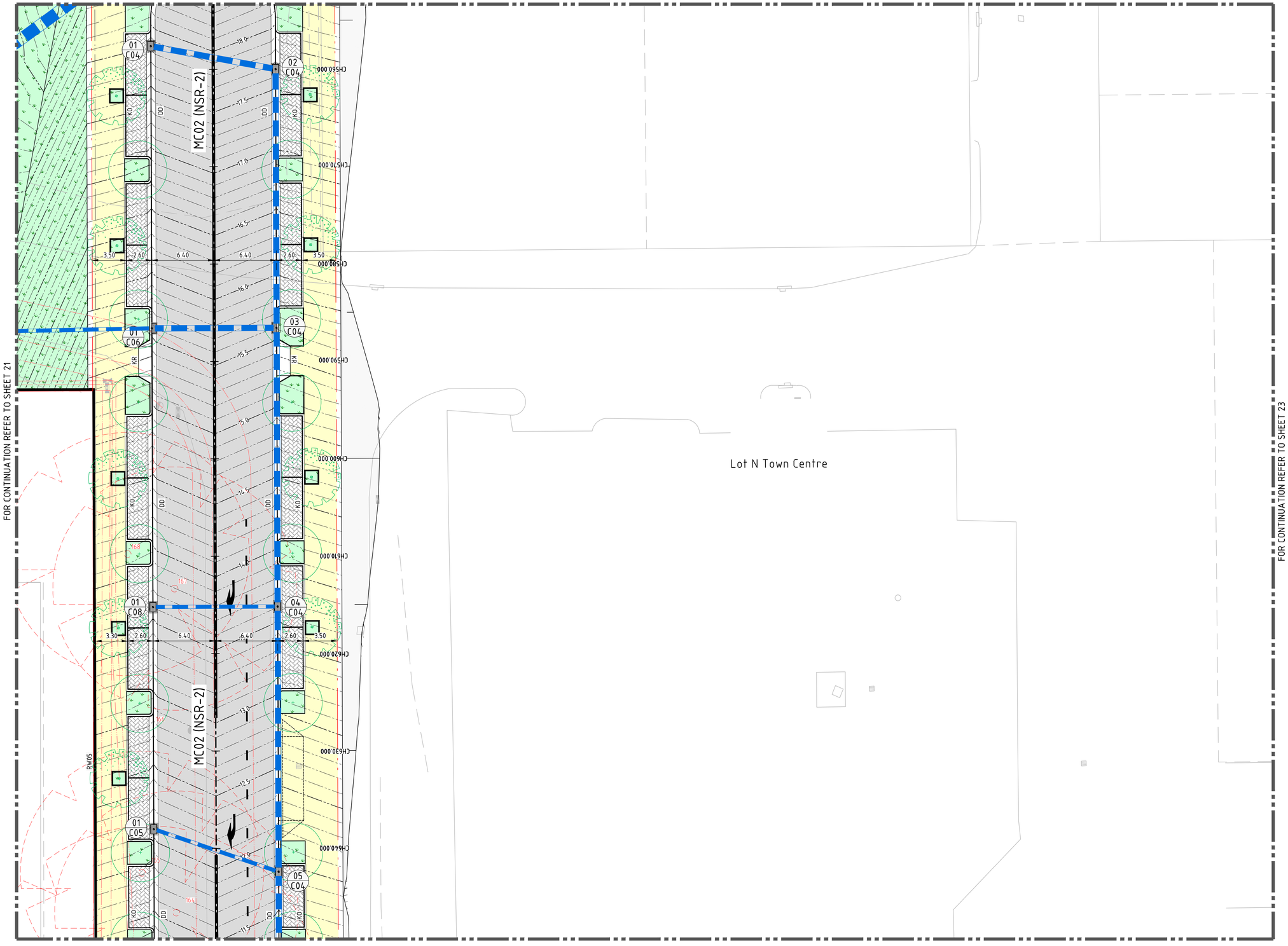


FOR CONTINUATION REFER TO SHEET 21

FOR CONTINUATION REFER TO SHEET 23

FOR CONTINUATION REFER TO SHEET 24

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ (TPZ)
- PROPOSED TREES
- SAWCUT AND PAVEMENT INFILL
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- eXX — EXISTING KERB 'TYPE AS BELOW'
- KO — KERB ONLY
- KG — KERB AND GUTTER
- DD — DISH DRAIN
- ES — EDGE STRIP
- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
- MK — MOUNTABLE KERB
- KERB RAMP (VC)
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- CONTOURS (XX.XX)
- EXISTING CONTOURS (XXXX)
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIT TAG (1 / A)
- RETAINING WALL (RW)
- PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS (LIMIT OF WORKS)
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
- HEAVY DUTY CONCRETE DRIVEWAY TO STD DWG DS9
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- ASPHALT CYCLEWAY TO MELROSE PARK PUBLIC DOMAIN GUIDELINES
- CONCRETE ROUNDABOUT TO STD DWG DS17 (ANNULUS)
- CONCRETE ROUNDABOUT WITH PATTERN FINISH TO STD DWG DS17
- CONCRETE THRESHOLD RAMP
- PAVED RAISED THRESHOLD/CROSSING
- CONCRETE MEDIAN INFILL
- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 22

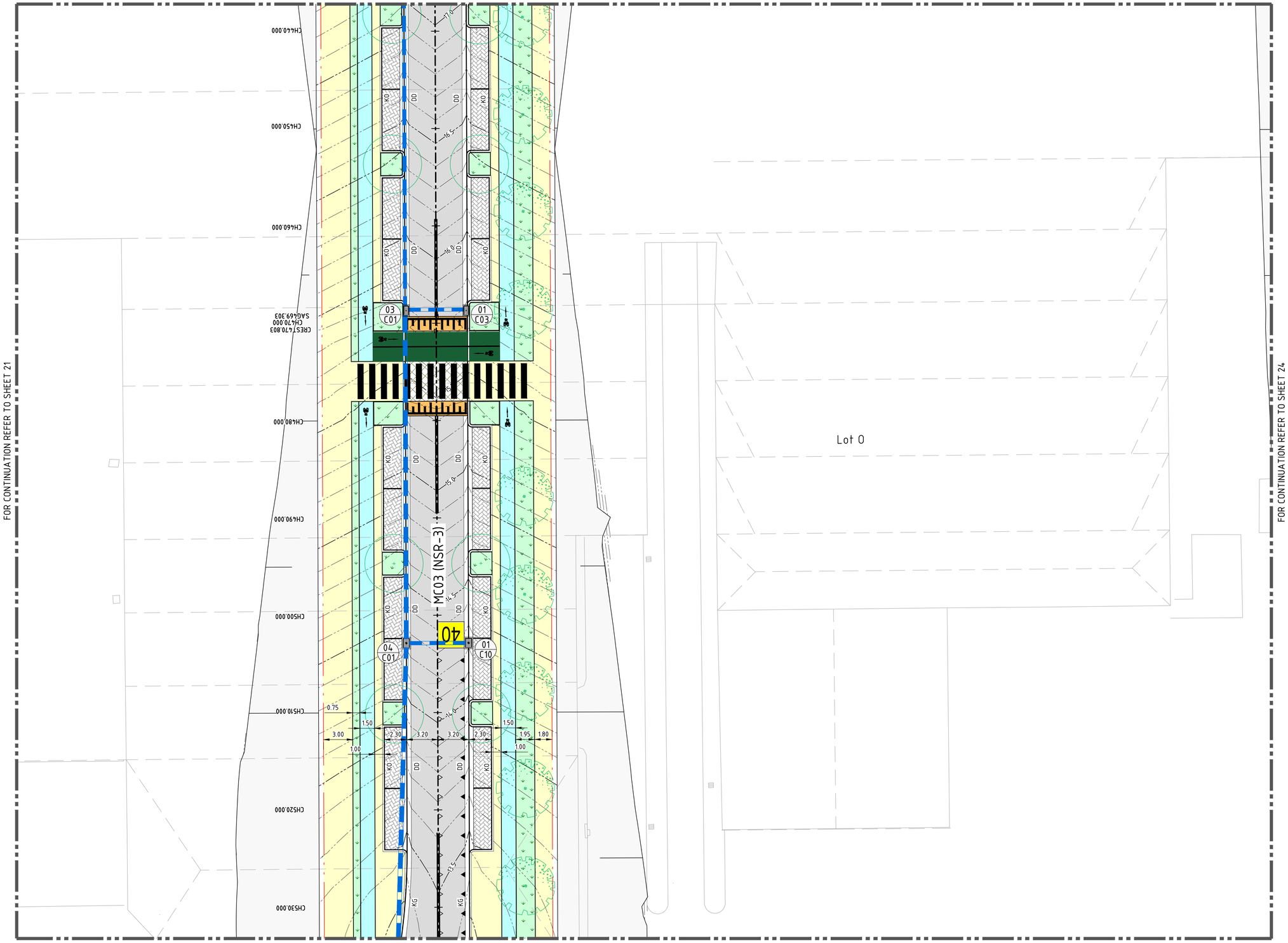
JOB NUMBER 150077-60
DRAWING NUMBER C04.22
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:08:07 AM by: Andrew Park Infrastructure DA - 150770\Drawings\Civil\150077-60 CAD\04 Civil\150077-60_C04.22.dwg

FOR CONTINUATION REFER TO SHEET 19

FOR CONTINUATION REFER TO SHEET 21

FOR CONTINUATION REFER TO SHEET 24




FOR CONTINUATION REFER TO SHEET 25

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ (TPZ)
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- MK — MOUNTABLE KERB
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- VEHICULAR CROSSING
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- MC01 — CONTROL LINE
- BATTERS
- CONTOURS (XX.XX)
- EXISTING CONTOURS (XXXX)
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
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- EXISTING DRAINAGE STRUCTURE
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- STORMWATER PIT TAG (1 / A)
- RETAINING WALL (RW)
- PRECAST CONCRETE HEADWALL
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- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
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DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**SITEWORKS GRADING & STORMWATER PLAN SHEET 23**

JOB NUMBER **150077-60**

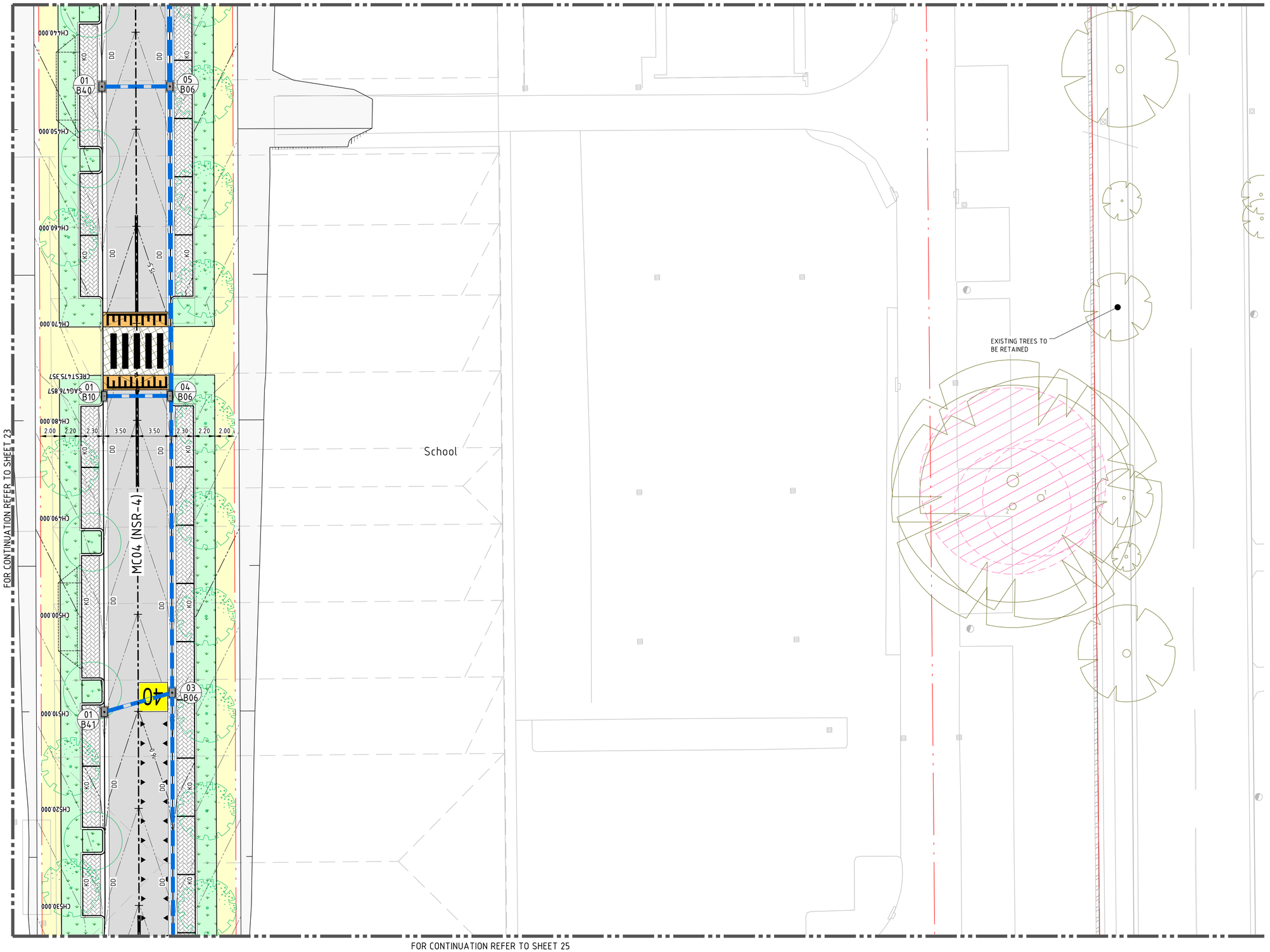
DRAWING NUMBER **C04.23**

REVISION **06**

DRAWING SHEET SIZE = A1

Plotted: 4/12/2023 10:06:07 AM By: Brandon Cowan
Filename: N:\Projects\150077-00 Melrose Park Infrastructure DA - 2021\10-Drawings\C-Civil\150077-00 C4.23 SHEET 23.dwg

FOR CONTINUATION REFER TO SHEET 20

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- LANDSCAPED SWALE
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DRAWN: B.MAZZA | DESIGNED: A.RIVETT | JOB MANAGER: P.SUTTON | VERIFIER: -

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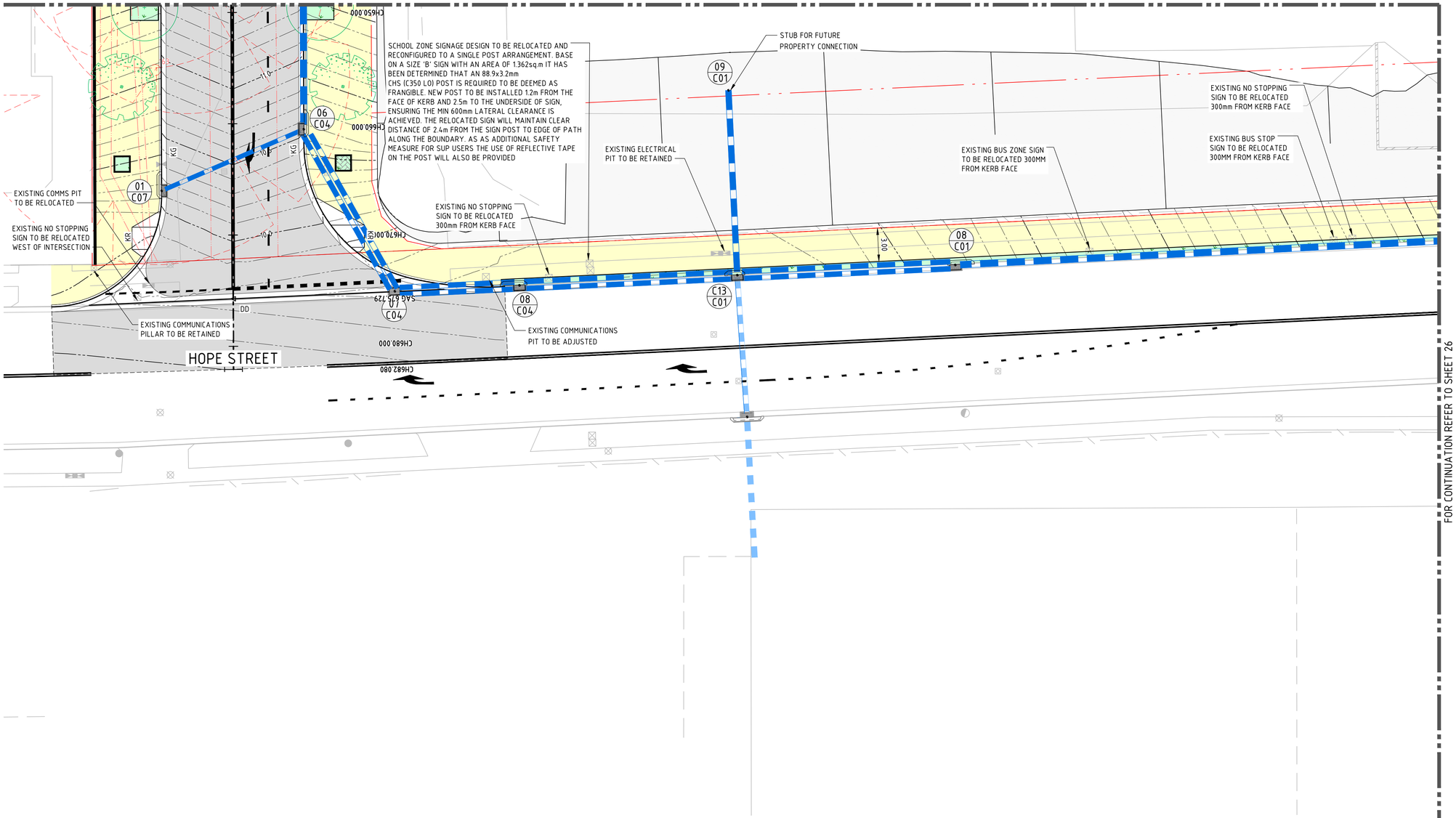
PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 24

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.24
REVISION: 06
DRAWING SHEET SIZE = A1

Plotted: 26/09/2023 8:00:07 AM - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\Plan\150077-60_C04.24.dwg

FOR CONTINUATION REFER TO SHEET 22




FOR CONTINUATION REFER TO SHEET 26

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ (TPZ)
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- KG — KERB AND GUTTER
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- ES — EDGE STRIP
- KG300 — KERB AND GUTTER WITH 300 WIDE TOP
- MK — MOUNTABLE KERB
- KERB RAMP (VC)
- VEHICULAR CROSSING
- INDICATIVE FUTURE VEHICULAR CROSSING
- MC01 — CONTROL LINE
- BATTERS
- CONTOURS (XX.XX)
- EXISTING CONTOURS (XXXX)
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- STORMWATER PIT TAG (1 / A)
- RETAINING WALL (RW)
- PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS (LIMIT OF WORKS)
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
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- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

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DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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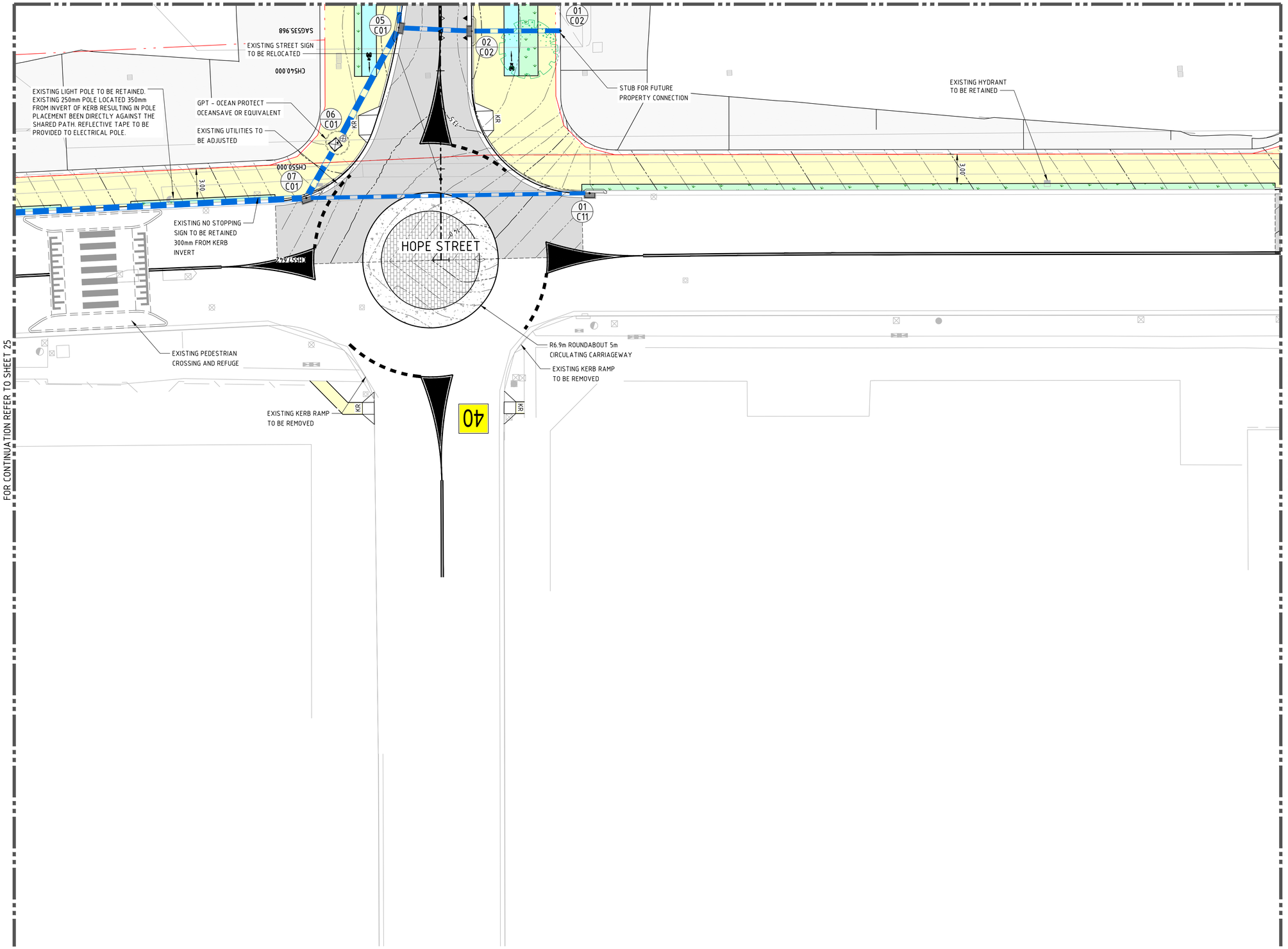
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 25

JOB NUMBER 150077-60
DRAWING NUMBER C04.25
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: Fri,15/09/2023@09:07:48AM - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\15DA\150077-60_C04.25.dwg

FOR CONTINUATION REFER TO SHEET 23




FOR CONTINUATION REFER TO SHEET 25

FOR CONTINUATION REFER TO SHEET 27

## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
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- EXISTING TREE TO BE RETAINED (GREEN) / REMOVED (RED). REFER ARBORIST REPORT BY NATURALLY TREES FOR ADDITIONAL INFORMATION RELATING TO BUT NOT LIMITED TO CONDITION, PROTECTION MEASURE AND TPZ (TPZ)
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- RETAINING WALL
- RW PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
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DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SITEWORKS GRADING & STORMWATER PLAN SHEET 26

JOB NUMBER 150077-60
DRAWING NUMBER C04.26
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: Thursday, 28 March 2024 - 10:47:10 AM by Brandon Mazza Infrastructure DA - 150077-60\drawings\Civil\150077-60 CAD\150077-60_C04.26.dwg

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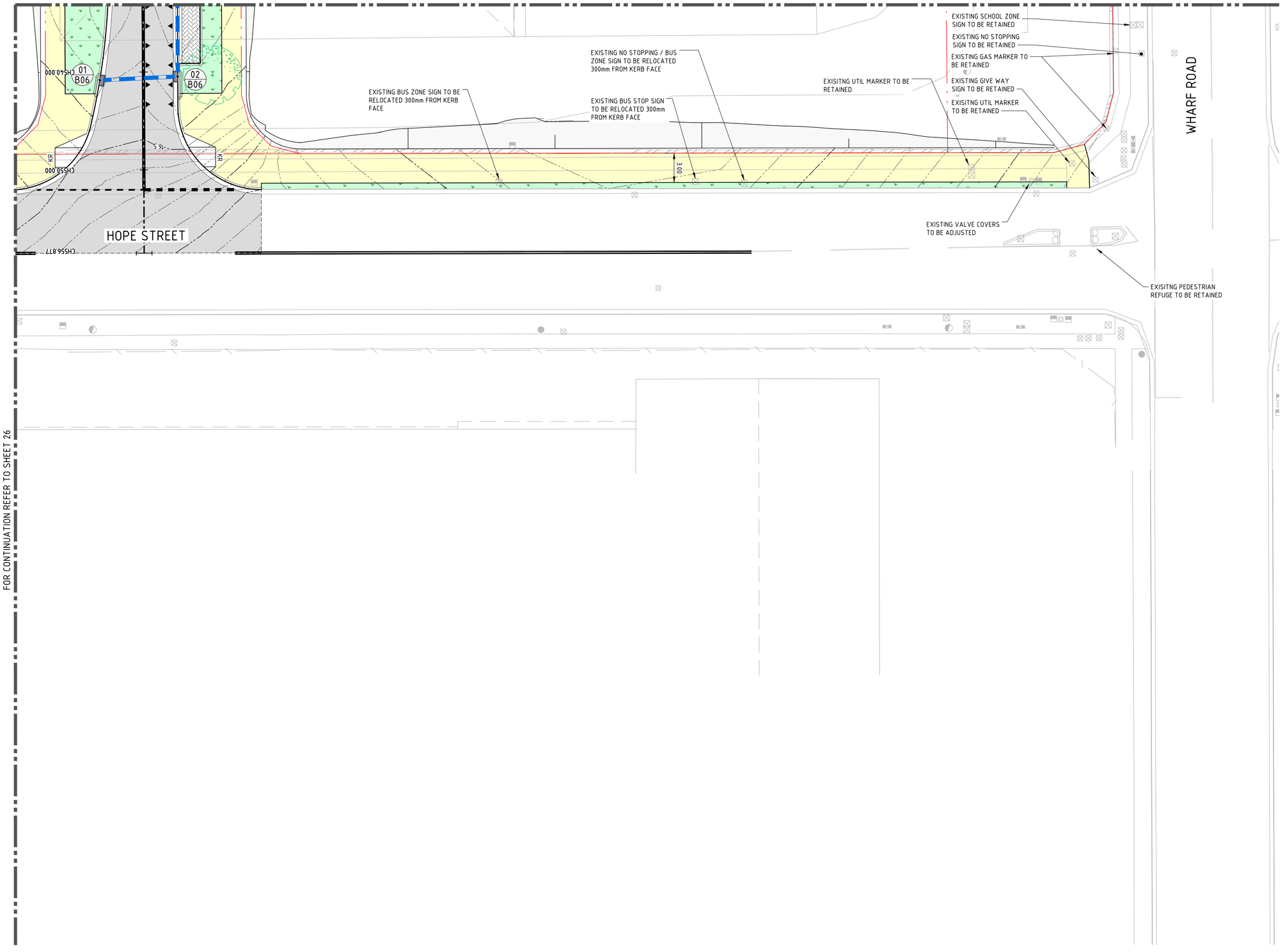


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## LEGEND

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- EXISTING CONTOURS
- V-SHAPED CHANNEL
- TEMPORARY STORMWATER PIPE (ø150)
- PROPOSED STORMWATER PIPE
- EXISITNG STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- 1 / A — STORMWATER PIT TAG
- RW — RETAINING WALL
- PRECAST CONCRETE HEADWALL
- LIMIT OF WORKS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
- HEAVY DUTY CONCRETE DRIVEWAY TO STD DWG DS9
- CONCRETE PAVEMENT WITH HIGHLIGHTS AS DIRECTED BY COUNCIL
- ASPHALT CYCLEWAY TO MELROSE PARK PUBLIC DOMAIN GUIDELINES
- CONCRETE ROUNDABOUT TO STD DWG DS17 (ANNULUS)
- CONCRETE ROUNDABOUT WITH PATTERN FINISH TO STD DWG DS17
- CONCRETE THRESHOLD RAMP
- PAVED RAISED THRESHOLD/CROSSING
- CONCRETE MEDIAN INFILL
- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- PERMANENT WATER BODY
- BIORETENTION
- LANDSCAPED SWALE
- FUTURE GAMES COURTS
- ACTIVE/PASSIVE PEDESTRIAN NODES - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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CLIENT: SEKISUI HOUSE

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SCALE 1:200@ A1 — 0 2 4 6 8 10m

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: **MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE: **CIVIL ENGINEERING PACKAGE**

**SITEWORKS GRADING & STORMWATER PLAN SHEET 27**

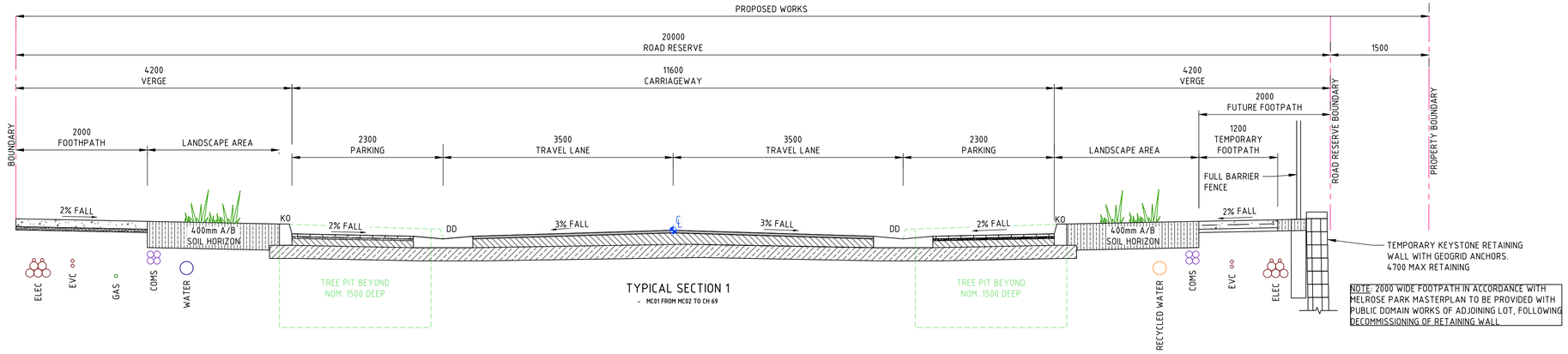
JOB NUMBER: **150077-60**

DRAWING NUMBER: **C04.27**

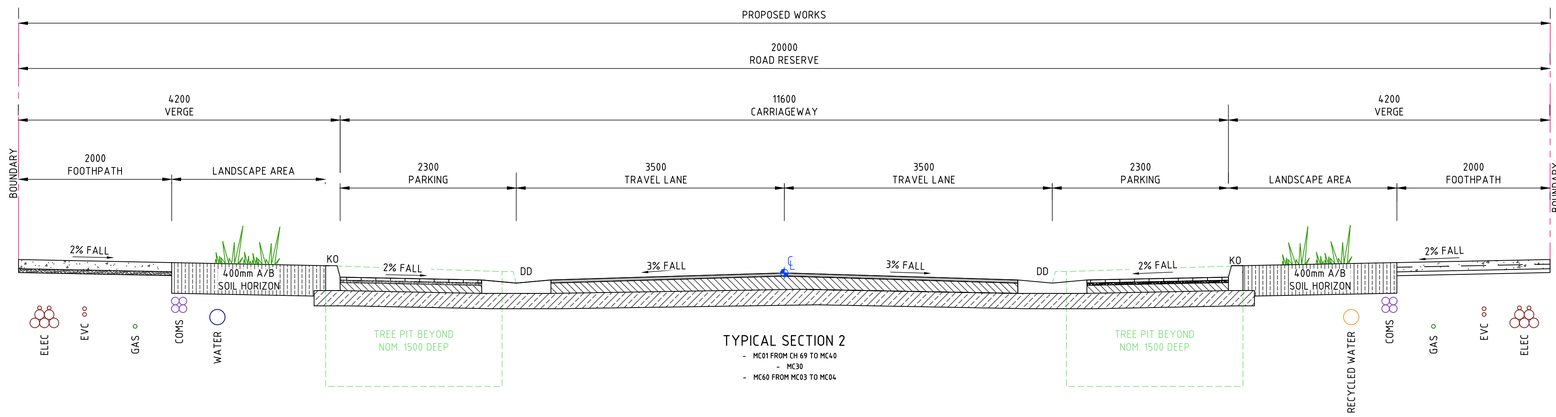
REVISION: **06**

DRAWING SHEET SIZE = A1

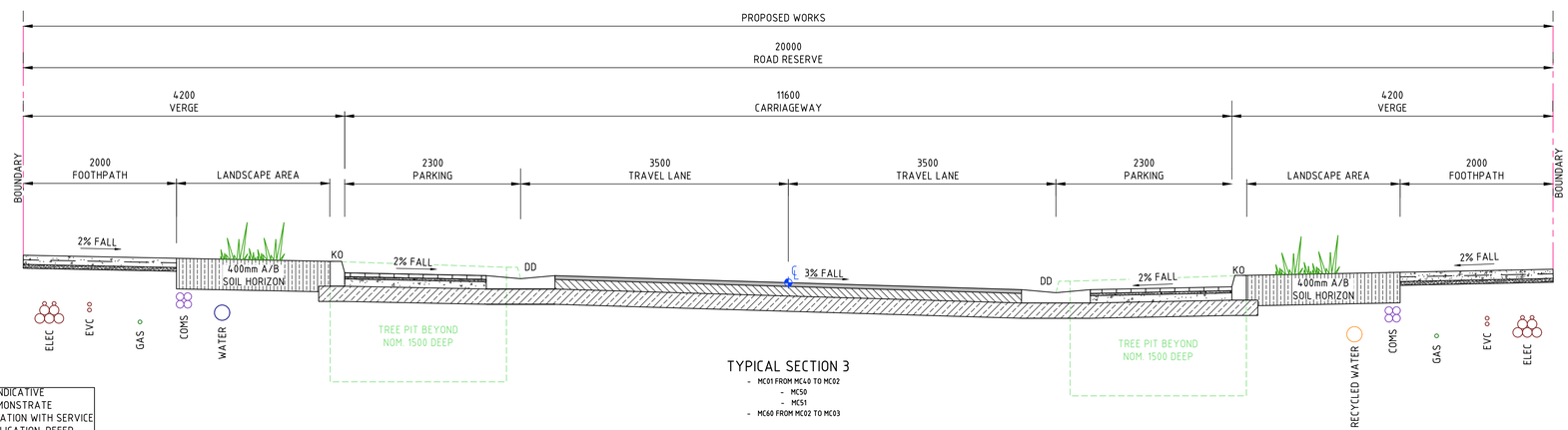
Plotted: 06 Oct 2023 10:00:17 AM - Melrose Park Infrastructure DA - 2021\150077-60\Drawings\Civil\150077-60 C04.27 SITEWORKS GRADING & STORMWATER PLAN SHEET 27.dwg




TYPICAL SECTION 1
- MC01 FROM MC02 TO CH 69




TYPICAL SECTION 2
- MC01 FROM CH 69 TO MC40
- MC30
- MC60 FROM MC03 TO MC04




TYPICAL SECTION 3
- MC01 FROM MC40 TO MC02
- MC50
- MC51
- MC60 FROM MC02 TO MC03

NOTE: UTILITIES SHOWN ON TYPICAL CROSS SECTIONS ARE INDICATIVE ALLOCATIONS FOR PROPOSED AND FUTURE UTILITIES TO DEMONSTRATE FEASIBILITY. UTILITY LOCATIONS ARE SUBJECT TO CONSULTATION WITH SERVICE AUTHORITIES FOLLOWING APPROVAL OF DEVELOPMENT APPLICATION. REFER SERVICE COORDINATION PLAN FOR CONCEPT UTILITY SCHEMATIC LAYOUTS

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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SCALE 1:40@A1
0.0 0.4 0.8 1.2 1.6 2.0m

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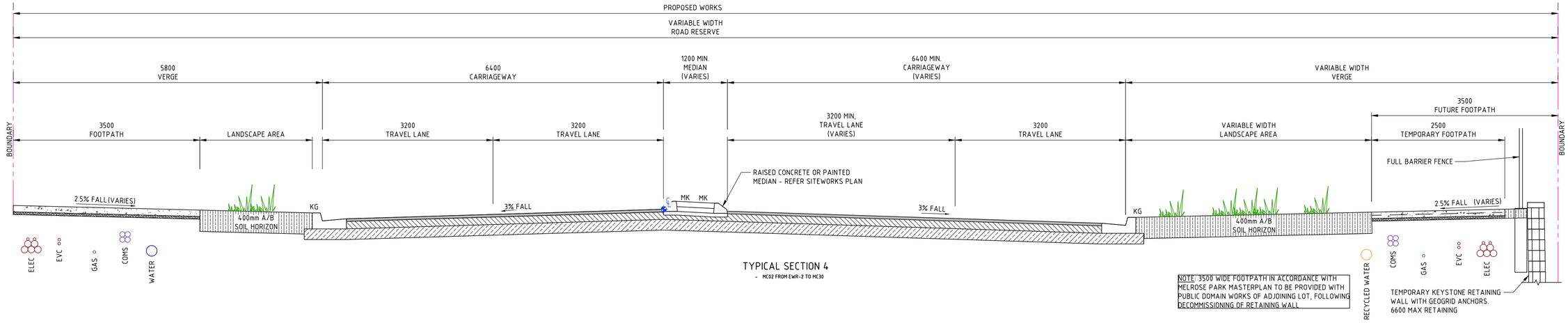
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
TYPICAL ROAD SECTIONS SHEET
01

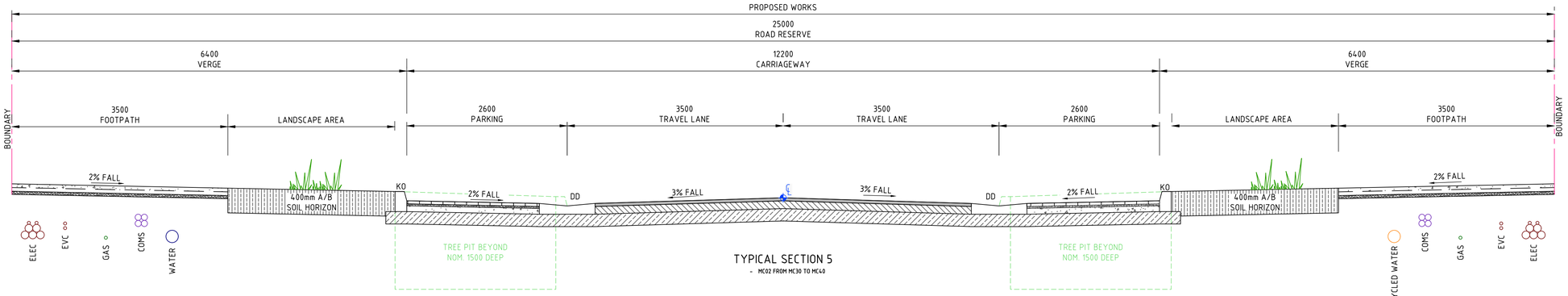
JOB NUMBER 150077-60
DRAWING NUMBER C04.31
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 9:00:17 AM By: Melissa Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\STDATA\150077-60_C04.31.dwg

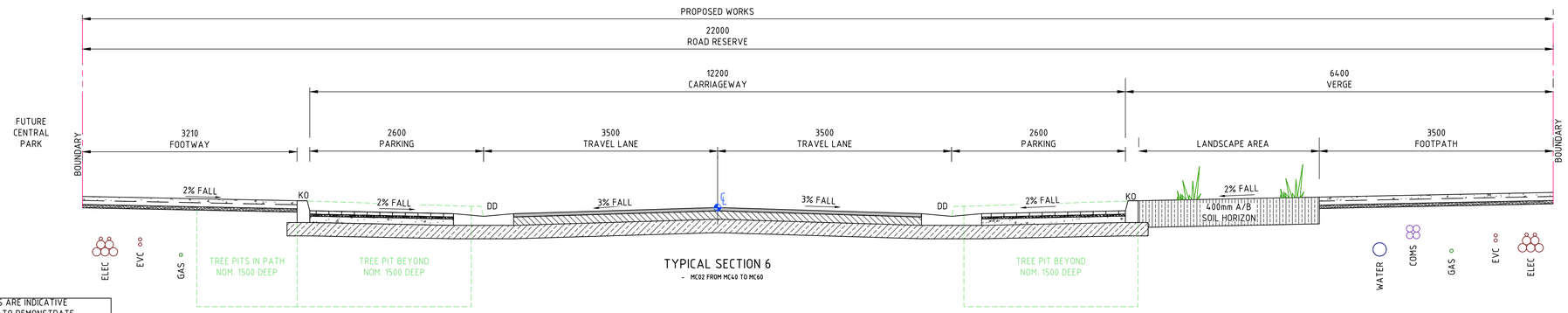



TYPICAL SECTION 4
- MC02 FROM EWR-2 TO MC30

NOTE: 3500 WIDE FOOTPATH IN ACCORDANCE WITH MELROSE PARK MASTERPLAN TO BE PROVIDED WITH PUBLIC DOMAIN WORKS OF ADJOINING LOT, FOLLOWING DECOMMISSIONING OF RETAINING WALL




TYPICAL SECTION 5
- MC02 FROM MC30 TO MC40




TYPICAL SECTION 6
- MC02 FROM MC40 TO MC60

NOTE: UTILITIES SHOWN ON TYPICAL CROSS SECTIONS ARE INDICATIVE ALLOCATIONS FOR PROPOSED AND FUTURE UTILITIES TO DEMONSTRATE FEASIBILITY. UTILITY LOCATIONS ARE SUBJECT TO CONSULTATION WITH SERVICE AUTHORITIES FOLLOWING APPROVAL OF DEVELOPMENT APPLICATION. REFER SERVICE COORDINATION PLAN FOR CONCEPT UTILITY SCHEMATIC LAYOUTS

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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SCALE 1:40@ A1 0.0 0.4 0.8 1.2 1.6 2.0m

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Level 11 345 George Street, Sydney NSW 2000
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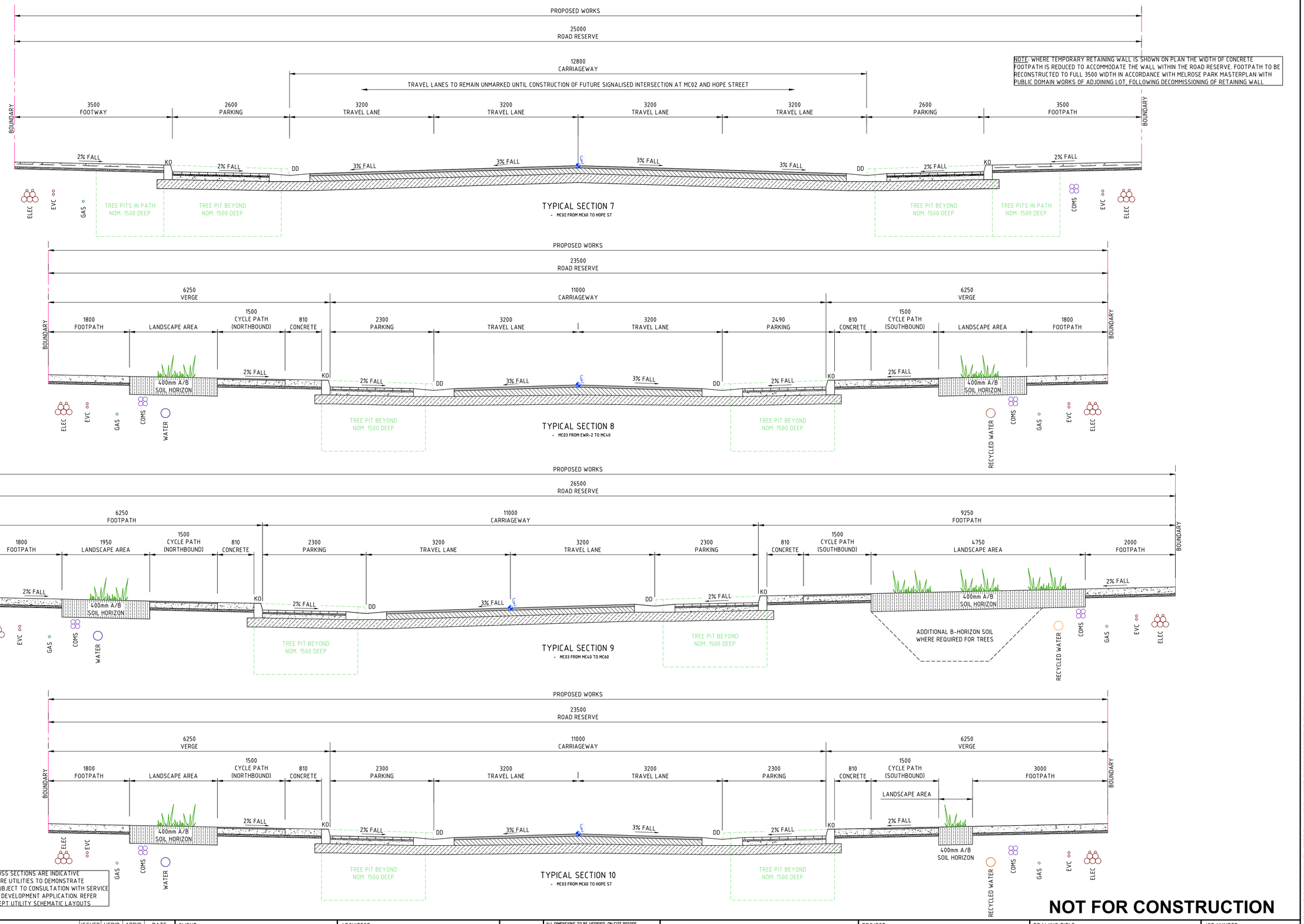
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
TYPICAL ROAD SECTIONS SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C04.32
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 8:08:07 AM - Melrose Park Infrastructure DA - 2021\150077-60\Drawings\C04\150077-60 C04.32 [06].dwg

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DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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Sydney
Level 11 345 George Street, Sydney NSW 2000
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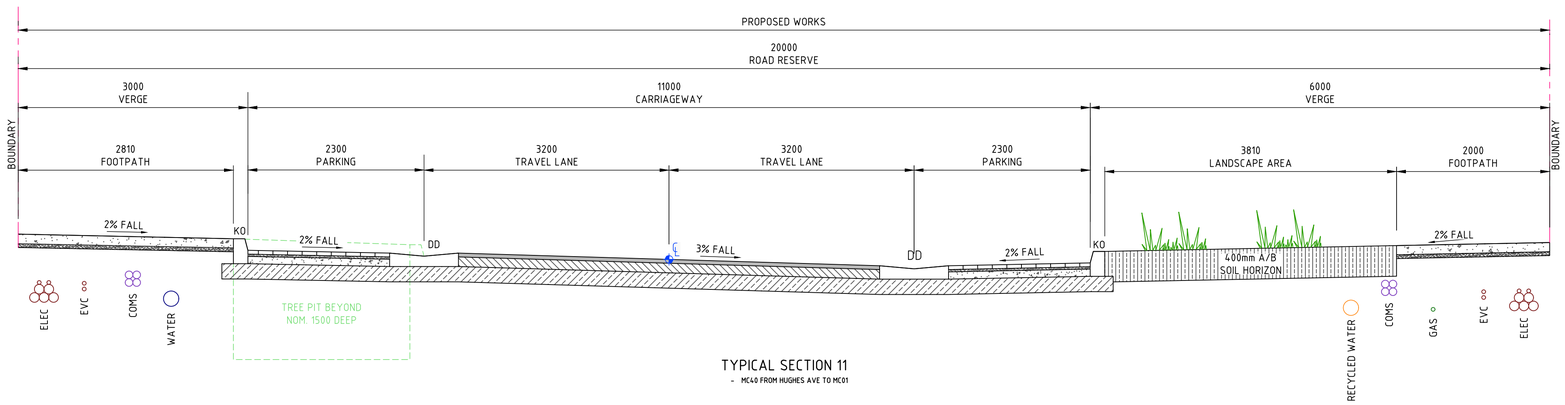
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
TYPICAL ROAD SECTIONS SHEET 03

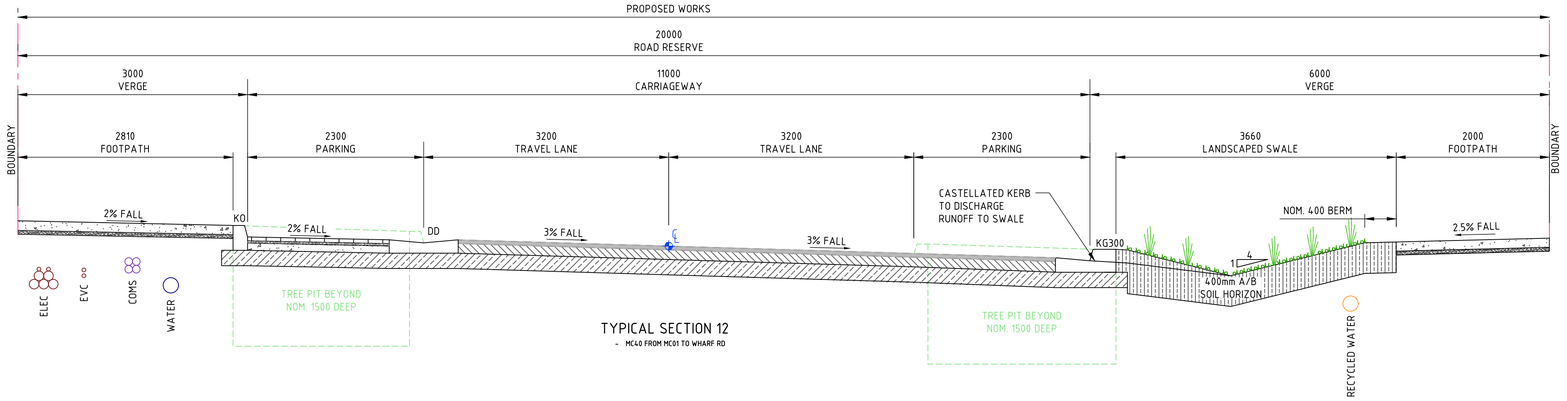
JOB NUMBER 150077-60
DRAWING NUMBER C04.33
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: Thursday, 6 June 2024 - 10:07:07 AM - Melrose Park Infrastructure DA - 2024\Drawings\Civil\150077-60 CAD\SHEETS\150077-60_C04.33.dwg




TYPICAL SECTION 11

- MC40 FROM HUGHES AVE TO MC01




TYPICAL SECTION 12

- MC40 FROM MC01 TO WHARF RD

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

TYPICAL ROAD SECTIONS SHEET
04

JOB NUMBER
150077-60

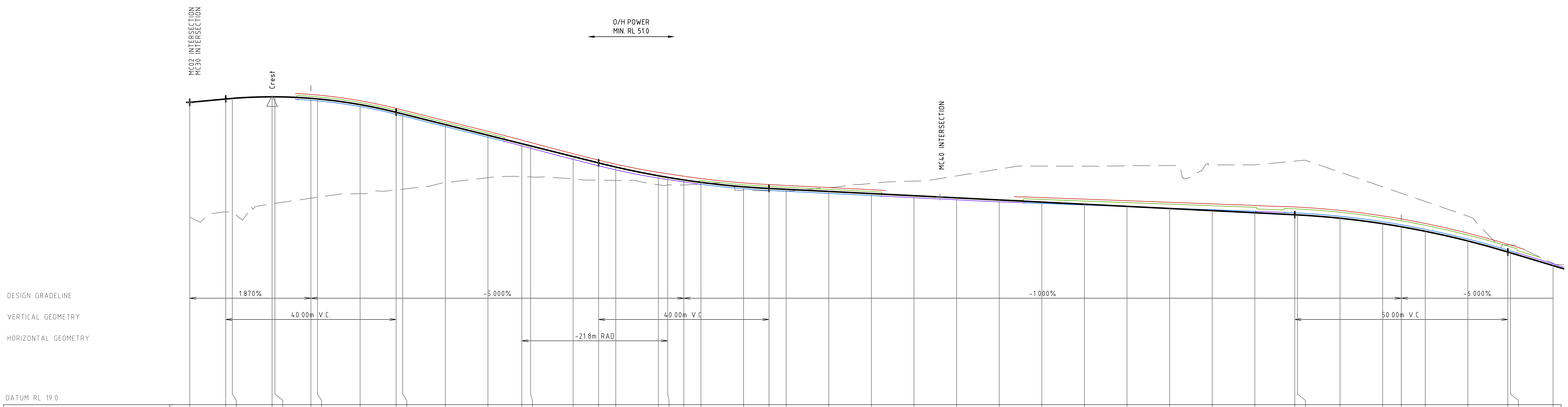
DRAWING NUMBER
C04.34

REVISION
06

DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 8:00:00 AM By: Brianna Mazza
File Name: P:\150077\Drawings\Civil\150077-60 C04.34 Typical Road Sections Sheet 04.dwg

NOT FOR CONSTRUCTION




| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 33.197 | 33.355 | 33.381 | 33.456 | 33.456 | 33.385 | 33.359 | 33.09 | 32.729 | 32.651 | 32.151 | 31.651 | 31.254 | 31.151 | 30.651 |
| LEFT BDY LINE | | | | 19.72 | 19.707 | 33.568 | 33.542 | 33.273 | 32.911 | 32.834 | 32.334 | 31.834 | 31.424 | 31.312 | 30.784 |
| LEFT TOK | | | | 19.633 | 19.62 | 33.48 | 33.454 | 33.185 | 32.824 | 32.747 | 32.247 | 31.747 | 31.264 | 31.153 | 30.629 |
| LEFT LIP / PARKING | | | | 19.432 | 19.433 | 33.293 | 33.267 | 32.998 | 32.637 | 32.56 | 32.06 | 31.56 | | 18.948 | |
| LEFT LIP / LANE | | | | | | 33.293 | 33.267 | 32.998 | 32.637 | 32.56 | 32.06 | 31.56 | 31.154 | 31.043 | 30.519 |
| EXISTING SURFACE | 27.802 | 28.052 | 28.046 | 28.435 | 28.453 | 28.694 | 28.738 | 28.907 | 29.086 | 29.121 | 29.423 | 29.659 | 29.713 | 29.695 | 29.608 |
| CHAINAGE | 0.000 | 8.450 | 10.000 | 19.337 | 20.000 | 28.450 | 30.000 | 40.000 | 48.450 | 50.000 | 60.000 | 70.000 | 77.943 | 80.000 | 90.000 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.353 | 30.159 | 29.749 | 29.673 | 29.553 | 29.44 | 29.23 | 29.153 | 29.112 | 29.012 | 28.912 | 28.812 | 28.712 | 28.612 | 28.512 |
| LEFT BDY LINE | 30.482 | 30.292 | 29.91 | 29.843 | 29.729 | 29.623 | 29.413 | 29.335 | 29.295 | 29.195 | 29.095 | | | | 28.725 |
| LEFT TOK | 30.328 | 30.137 | 29.751 | 29.683 | 29.571 | 29.535 | 29.326 | 29.248 | 29.208 | 29.108 | 29.008 | | | 28.634 | 28.638 |
| LEFT LIP / PARKING | | | | | | 29.339 | 29.139 | 29.061 | 29.021 | 28.921 | 28.821 | | | | 28.451 |
| LEFT LIP / LANE | 30.218 | 30.027 | 29.641 | 29.573 | 29.461 | 29.348 | 29.139 | 29.061 | 29.021 | 28.921 | 28.821 | 28.721 | 28.621 | 28.524 | 28.451 |
| EXISTING SURFACE | 29.541 | 29.532 | 29.326 | 29.32 | 29.318 | 29.362 | 29.058 | 29.04 | 29.028 | 29.192 | 29.389 | 29.496 | 29.743 | 30.062 | 30.204 |
| CHAINAGE | 95.970 | 100.000 | 110.000 | 112.186 | 115.970 | 120.000 | 130.000 | 135.970 | 140.000 | 150.000 | 160.000 | 170.000 | 180.000 | 190.000 | 200.000 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.412 | 28.312 | 28.212 | 28.112 | 28.012 | 27.918 | 27.912 | 27.756 | 27.5 | 27.356 | 27.144 | 26.687 | 26.168 | 26.131 | 25.531 |
| LEFT BDY LINE | 28.651 | 28.577 | 28.503 | 28.43 | 28.356 | 28.284 | 28.278 | 28.122 | 27.866 | 27.722 | 27.509 | 27.053 | 26.534 | 26.497 | |
| LEFT TOK | 28.564 | 28.49 | 28.416 | 28.342 | 28.268 | 28.197 | 28.191 | 28.034 | 27.778 | 27.634 | 27.422 | 26.966 | 26.447 | 26.41 | |
| LEFT LIP / PARKING | 28.377 | 28.303 | 28.229 | 28.155 | 28.077 | 28.01 | 28.004 | 27.847 | 27.591 | 27.447 | 27.235 | 26.779 | 26.26 | 26.223 | |
| LEFT LIP / LANE | 28.377 | 28.303 | 28.229 | 28.155 | 28.081 | 28.01 | 28.004 | 27.847 | 27.591 | 27.447 | 27.235 | 26.779 | 26.26 | 26.223 | 25.616 |
| EXISTING SURFACE | 30.199 | 30.216 | 30.228 | 30.26 | 30.263 | 30.436 | 30.448 | 29.919 | 29.23 | 28.928 | 28.542 | 27.853 | 26.503 | 26.501 | 25.639 |
| CHAINAGE | 210.000 | 220.000 | 230.000 | 240.000 | 250.000 | 259.383 | 260.000 | 270.000 | 280.000 | 284.383 | 290.000 | 300.000 | 309.383 | 310.000 | 320.000 |

LONGITUDINAL SECTION ALONG MC01 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

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SCALE 1:500@ A1 — 0 5 10 15 20 25m

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Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

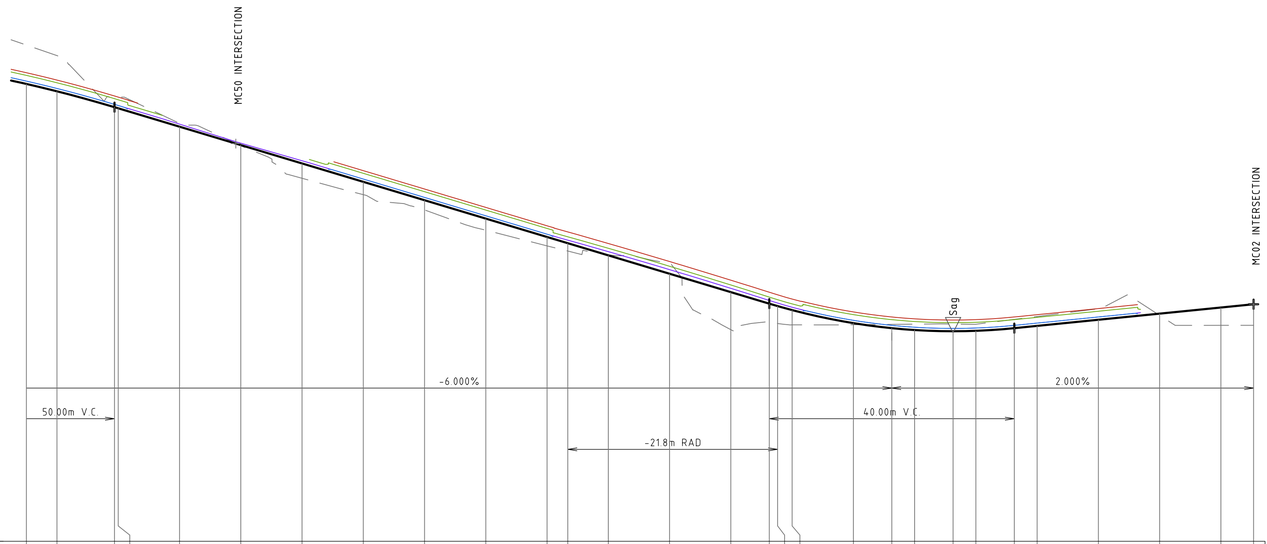
DRAWING TITLE: CIVIL ENGINEERING PACKAGE — ROAD LONGITUDINAL SECTIONS SHEET 01

JOB NUMBER: 150077-60

DRAWING NUMBER: C04.41 REVISION: 06

DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




DATUM RL 12.0

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.928 | 26.687 | | 26.168 | 26.131 | | 25.531 | | 24.931 | | 24.331 | | 23.731 | | 23.131 | | 22.531 | | 21.931 | 21.728 | 21.331 | | 20.731 | | 20.131 | | 19.755 | 19.675 | 19.545 | | 19.12 | | 18.955 | 18.894 | 18.855 | 18.869 | 18.955 | 19.029 | | 19.229 | | 19.429 | | 19.629 | 19.736 |
| LEFT BDY LINE | 27.294 | 27.053 | | 26.534 | 26.497 | | | | | | | | 24.097 | | 23.497 | | 22.897 | | 22.297 | 22.097 | 21.72 | | 21.131 | | 20.522 | | 20.129 | 20.045 | 19.905 | | 19.486 | | 19.321 | 19.26 | 19.221 | 19.235 | 19.321 | 19.395 | | 19.595 | | | | | |
| LEFT TOK | 27.206 | 26.966 | | 26.447 | 26.41 | | | | | | | | 24.01 | | 23.41 | | 22.81 | | 22.21 | 21.938 | 21.563 | | 20.976 | | 20.365 | | 19.97 | 19.885 | 19.748 | | 19.398 | | 19.234 | 19.173 | 19.133 | 19.147 | 19.233 | 19.308 | | 19.508 | | | | | |
| LEFT LIP / PARKING | 27.019 | 26.779 | | 26.26 | 26.223 | | | | | | | | 23.823 | | 23.223 | | 22.623 | | 22.023 | | | | 20.866 | | | | 32.062 | | | | 19.211 | | 19.047 | 18.986 | 18.946 | 18.96 | 19.046 | 19.121 | | 19.321 | | | | | |
| LEFT LIP / LANE | 27.019 | 26.779 | | 26.26 | 26.223 | | 25.616 | | 24.994 | | 24.42 | | 23.823 | | 23.223 | | 22.623 | | 22.023 | 21.828 | 21.653 | | 20.866 | | 20.255 | | 19.86 | 19.775 | 19.638 | | 19.211 | | 19.047 | 18.986 | 18.946 | 18.96 | 19.046 | 19.121 | | 19.321 | | | | | |
| EXISTING SURFACE | 28.197 | 27.853 | | 26.503 | 26.501 | | 25.639 | | 24.91 | | 23.849 | | 23.314 | | 22.816 | | 22.153 | | 21.664 | 21.474 | 21.35 | | 21.066 | | 18.907 | | 19.146 | 19.108 | 19.063 | | 19.067 | | 19.079 | 19.087 | 19.09 | 19.083 | 19.242 | 19.336 | | 19.561 | | 19.374 | | 19.048 | 19.049 |
| CHAINAGE | 295.000 | 300.000 | | 309.383 | 310.000 | | 320.000 | | 330.000 | | 340.000 | | 350.000 | | 360.000 | | 370.000 | | 380.000 | 383.386 | 390.000 | | 400.000 | | 410.000 | | 416.275 | 417.630 | 420.000 | | 430.000 | | 436.275 | 440.000 | 446.275 | 450.000 | 456.275 | 460.000 | | 470.000 | | 480.000 | | 490.000 | 495.330 |

## LONGITUDINAL SECTION ALONG MC01 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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SCALE 1:100 @ A1 (0 1 2 3 4 5m)
SCALE 1:500 @ A1 (0 5 10 15 20 25m)

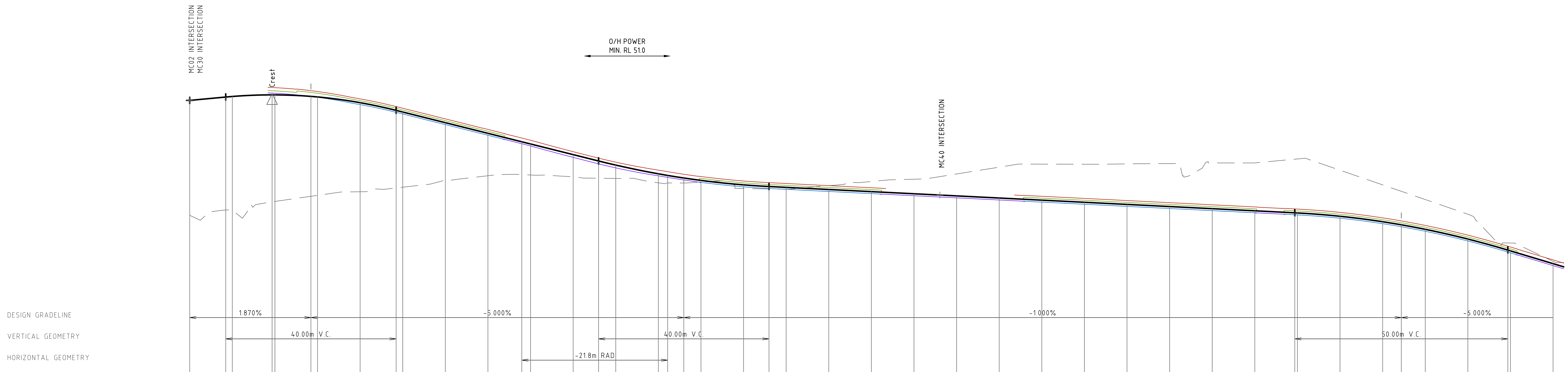
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C04.42
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 10:08:07 AM By: Melrose Park Infrastructure DA - 2021/150 Drawings\Civil\150077-60 C04\150077-60 C04.42.dwg




| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 33.197 | | | | | 27.802 |
| 8.450 | 33.355 | | | | | 28.052 |
| 10.000 | 33.381 | | | | | 28.046 |
| 19.337 | 33.456 | 33.802 | 33.649 | | 33.539 | 28.435 |
| 20.000 | 33.456 | 33.795 | 33.643 | | 33.533 | 28.453 |
| 28.450 | 33.385 | 33.654 | 33.571 | 33.384 | 33.384 | 28.694 |
| 30.000 | 33.359 | 33.614 | 33.531 | 33.344 | 33.344 | 28.738 |
| 40.000 | 33.09 | 33.268 | 33.185 | 32.998 | 32.998 | 28.907 |
| 48.450 | 32.729 | 32.907 | 32.824 | 32.637 | 32.637 | 29.086 |
| 50.000 | 32.651 | 32.83 | 32.747 | 32.56 | 32.56 | 29.121 |
| 60.000 | 32.151 | 32.33 | 32.247 | 32.06 | 32.06 | 29.423 |
| 70.000 | 31.651 | 31.834 | 31.747 | 31.56 | 31.56 | 29.659 |
| 77.943 | 31.254 | 31.43 | 31.272 | | 31.162 | 29.713 |
| 80.000 | 31.151 | 31.325 | 31.166 | | 31.056 | 29.695 |
| 90.000 | 30.651 | 30.789 | 30.631 | | 30.521 | 29.608 |
| 95.970 | 30.353 | 30.485 | 30.328 | | 30.218 | 29.541 |
| 100.000 | 30.159 | 30.297 | 30.139 | | 30.029 | 29.532 |
| 110.000 | 29.749 | 29.923 | 29.764 | | 29.654 | 29.326 |
| 112.186 | 29.673 | 29.849 | 29.692 | | 29.582 | 29.32 |
| 115.970 | 29.553 | 29.729 | 29.571 | | 29.461 | 29.318 |
| 120.000 | 29.44 | 29.623 | 29.535 | 29.339 | 29.348 | 29.362 |
| 130.000 | 29.23 | 29.413 | 29.326 | 29.139 | 29.139 | 29.058 |
| 135.970 | 29.153 | 29.335 | 29.248 | 29.061 | 29.061 | 29.04 |
| 140.000 | 29.112 | 29.295 | 29.208 | 29.021 | 29.021 | 29.028 |
| 150.000 | 29.012 | 29.195 | 29.108 | 28.921 | 28.921 | 29.192 |
| 160.000 | 28.912 | 29.095 | 29.008 | 28.821 | 28.821 | 29.389 |
| 170.000 | 28.812 | | | | 28.721 | 29.496 |
| 180.000 | 28.712 | | | | 28.621 | 29.743 |
| 190.000 | 28.612 | | 28.631 | | 28.521 | 30.062 |
| 200.000 | 28.512 | 28.695 | 28.608 | 28.421 | 28.421 | 30.204 |
| 210.000 | 28.412 | 28.595 | 28.508 | 28.321 | 28.321 | 30.199 |
| 220.000 | 28.312 | 28.495 | 28.408 | 28.221 | 28.221 | 30.216 |
| 230.000 | 28.212 | 28.395 | 28.308 | 28.121 | 28.121 | 30.228 |
| 240.000 | 28.112 | 28.295 | 28.208 | 28.021 | 28.021 | 30.26 |
| 250.000 | 28.012 | 28.195 | 28.108 | 27.917 | 27.921 | 30.263 |
| 259.383 | 27.918 | 28.101 | 28.014 | 27.827 | 27.827 | 30.436 |
| 260.000 | 27.912 | 28.095 | 28.008 | 27.821 | 27.821 | 30.448 |
| 270.000 | 27.756 | 27.939 | 27.851 | 27.664 | 27.664 | 29.919 |
| 280.000 | 27.5 | 27.683 | 27.595 | 27.408 | 27.408 | 29.23 |
| 284.383 | 27.356 | 27.539 | 27.451 | 27.264 | 27.264 | 28.928 |
| 290.000 | 27.144 | 27.326 | 27.239 | 27.052 | 27.052 | 28.542 |
| 300.000 | 26.687 | 26.87 | 26.783 | 26.596 | 26.596 | 27.853 |
| 309.383 | 26.168 | 26.351 | 26.264 | 26.077 | 26.077 | 26.503 |
| 310.000 | 26.131 | 26.314 | 26.227 | 26.04 | 26.04 | 26.501 |
| 320.000 | 25.531 | 25.708 | 25.55 | | 25.44 | 25.639 |

## LONGITUDINAL SECTION ALONG MC01 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:500@ A1 0 5 10 15 20 25m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS SHEET 03

JOB NUMBER 150077-60
DRAWING NUMBER C04.43
REVISION 06
DRAWING SHEET SIZE = A1

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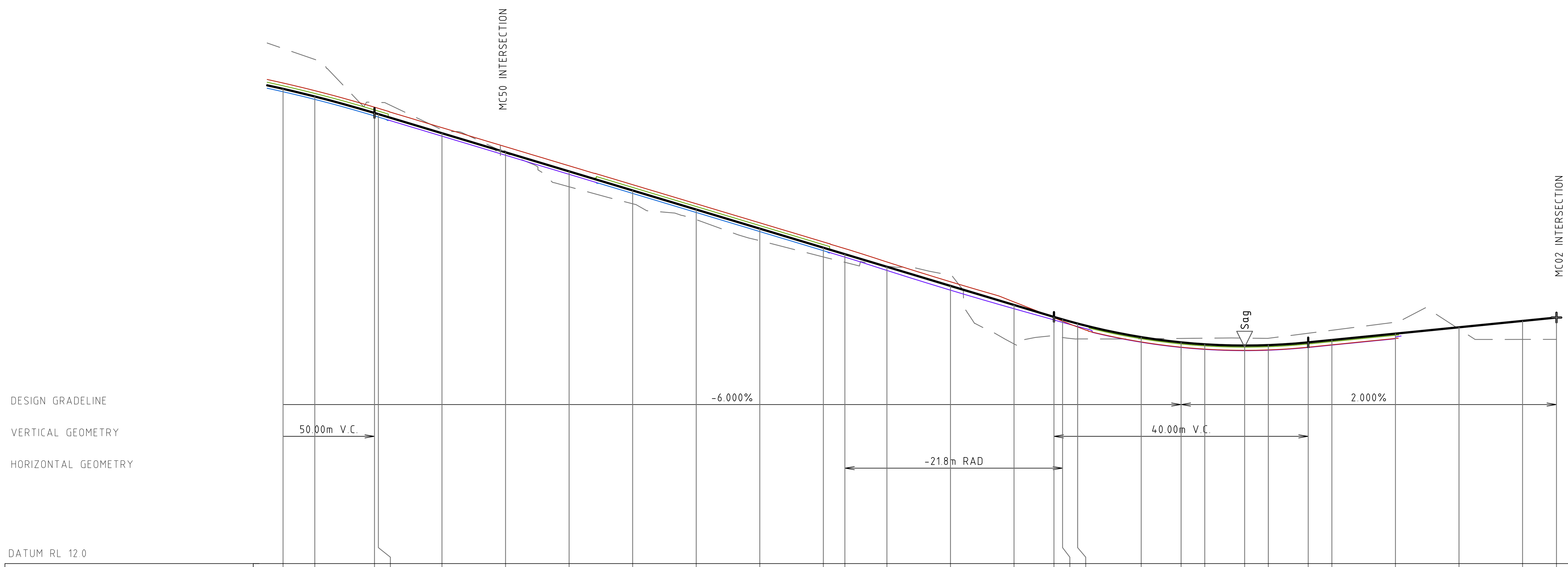


| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 295.000 | 26.928 | 27.111 | 27.023 | 26.836 | 26.836 | 28.197 |
| 300.000 | 26.687 | 26.87 | 26.783 | 26.596 | 26.596 | 27.853 |
| 309.383 | 26.168 | 26.351 | 26.264 | 26.077 | 26.077 | 26.503 |
| 310.000 | 26.131 | 26.314 | 26.227 | 26.04 | 26.04 | 26.501 |
| 320.000 | 25.531 | 25.708 | 25.55 | | 25.44 | 25.639 |
| 330.000 | 24.931 | 25.108 | 24.95 | | 24.84 | 24.91 |
| 340.000 | 24.331 | 24.508 | 24.35 | | 24.24 | 23.849 |
| 350.000 | 23.731 | 23.914 | 23.827 | 23.64 | 23.64 | 23.314 |
| 360.000 | 23.131 | 23.314 | 23.227 | 23.04 | 23.04 | 22.816 |
| 370.000 | 22.531 | 22.714 | 22.627 | 22.44 | 22.44 | 22.153 |
| 380.000 | 21.931 | 22.114 | 22.027 | 21.84 | 21.84 | 21.64 |
| 383.386 | 21.728 | 21.904 | 21.747 | | 21.637 | 21.474 |
| 390.000 | 21.331 | 21.484 | 21.327 | | 21.217 | 21.35 |
| 400.000 | 20.731 | 20.861 | 20.706 | | 20.596 | 21.066 |
| 410.000 | 20.131 | 20.226 | 20.123 | | 20.013 | 18.907 |
| 416.275 | 19.755 | 19.731 | 19.772 | 32.087 | 19.662 | 19.146 |
| 417.630 | 19.675 | 19.622 | 19.694 | | 19.584 | 19.108 |
| 420.000 | 19.545 | 19.438 | 19.564 | | 19.454 | 19.063 |
| 430.000 | 19.12 | 18.969 | 19.069 | 31.781 | 18.959 | 19.067 |
| 436.275 | 18.955 | 18.804 | 18.905 | 32.095 | 18.795 | 19.079 |
| 440.000 | 18.894 | 18.744 | 18.844 | 32.281 | 18.734 | 19.087 |
| 446.275 | 18.855 | 18.704 | 18.804 | 32.595 | 18.694 | 19.09 |
| 450.000 | 18.869 | 18.718 | 18.818 | 32.774 | 18.708 | 19.083 |
| 456.275 | 18.955 | 18.804 | 18.904 | 33.023 | 18.794 | 19.242 |
| 460.000 | 19.029 | 18.879 | 18.979 | 33.164 | 18.869 | 19.336 |
| 470.000 | 19.229 | 19.079 | 19.179 | 33.443 | 19.115 | 19.561 |
| 480.000 | 19.429 | | | | | 19.374 |
| 490.000 | 19.629 | | | | | 19.048 |
| 495.330 | 19.736 | | | | | 19.049 |

## LONGITUDINAL SECTION ALONG MC01 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
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SCALE 1:500 @ A1 — 0 5 10 15 20 25m

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Sydney
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Email sydney@northrop.com.au ABN 81 094 433 100

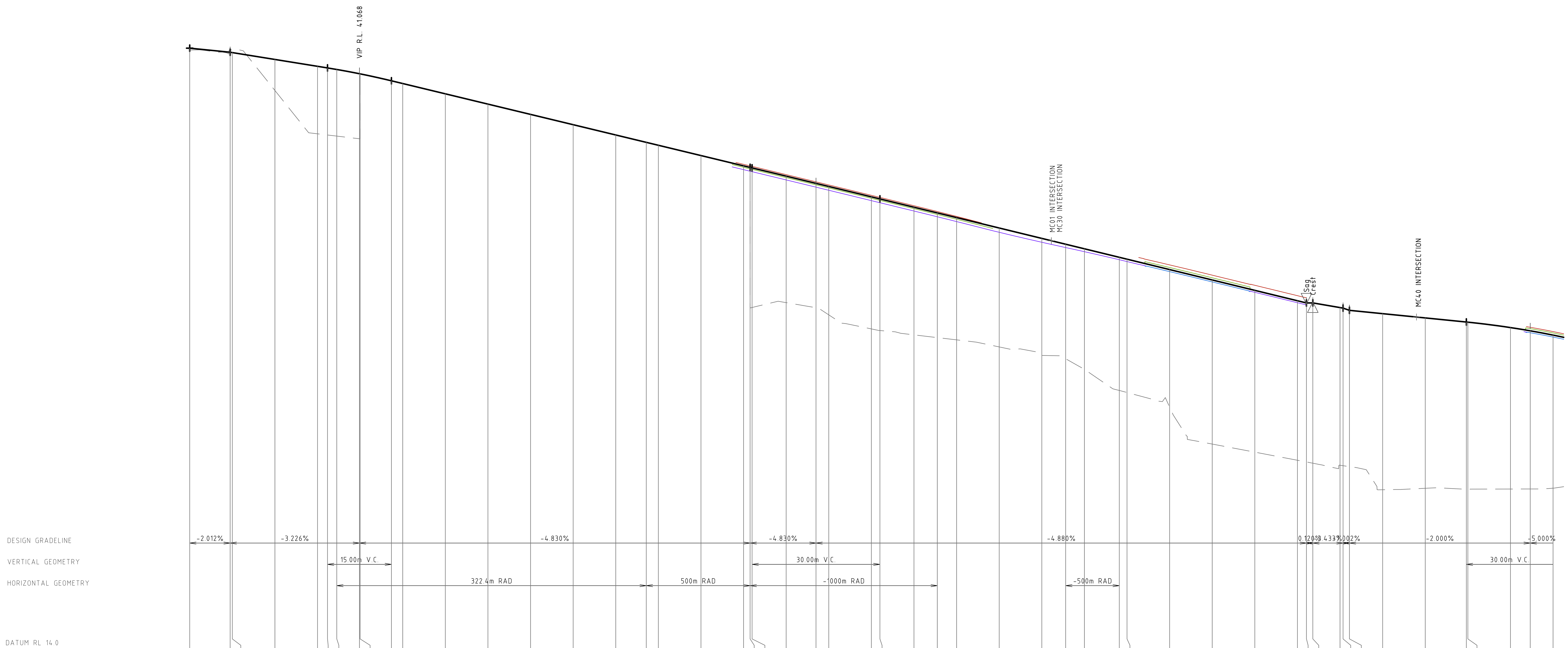
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 04

JOB NUMBER 150077-60
DRAWING NUMBER C04.44
REVISION 06
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA




| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 42.238 | | | | | 42.184 |
| 9.494 | 42.047 | | | | | 42.151 |
| 10.000 | 42.031 | | | | | 42.167 |
| 20.000 | 41.708 | | | | | 40.252 |
| 30.000 | 41.386 | | | | | 38.216 |
| 32.345 | 41.31 | | | | | 38.161 |
| 34.517 | 41.237 | | | | | 38.11 |
| 39.845 | 41.038 | | | | | 37.986 |
| 40.000 | 41.032 | | | | | 41.032 |
| 47.345 | 40.706 | | | | | 40.706 |
| 50.000 | 40.577 | | | | | 40.578 |
| 60.000 | 40.094 | | | | | 40.095 |
| 70.000 | 39.611 | | | | | 39.612 |
| 80.000 | 39.128 | | | | | 39.128 |
| 90.000 | 38.645 | | | | | 38.645 |
| 100.000 | 38.162 | | | | | 38.162 |
| 107.161 | 37.816 | | | | | 37.816 |
| 110.000 | 37.679 | | | | | 37.679 |
| 120.000 | 37.196 | | | | | 37.196 |
| 130.000 | 36.713 | 36.785 | 36.645 | | 36.535 | 36.713 |
| 131.535 | 36.639 | 36.711 | 36.571 | | 36.461 | 30.04 |
| 132.000 | 36.617 | 36.688 | 36.548 | | 36.438 | 30.062 |
| 140.000 | 36.23 | 36.301 | 36.161 | | 36.051 | 30.291 |
| 147.000 | 35.89 | 35.962 | 35.822 | | 35.712 | 30.051 |
| 150.000 | 35.744 | 35.816 | 35.676 | | 35.566 | 29.716 |
| 160.000 | 35.258 | 35.329 | 35.189 | | 35.079 | 29.056 |
| 162.000 | 35.16 | 35.232 | 35.092 | | 34.982 | 28.979 |
| 170.000 | 34.77 | 34.841 | 34.701 | | 34.591 | 28.776 |
| 175.473 | 34.503 | 34.569 | 34.431 | | 34.322 | 28.648 |
| 180.000 | 34.282 | 34.339 | 34.205 | | 34.096 | 28.542 |
| 190.000 | 33.794 | | | | 33.592 | 28.209 |
| 200.000 | 33.306 | | | | 33.125 | 27.81 |
| 205.602 | 33.032 | | | | 32.876 | 27.654 |
| 210.000 | 32.818 | | | | 32.682 | 27.156 |
| 218.190 | 32.418 | | | | 32.305 | 26.167 |
| 220.000 | 32.33 | | | | 32.218 | 26.07 |
| 230.000 | 31.842 | 32.062 | 31.94 | 31.747 | 31.747 | 25.385 |
| 240.000 | 31.354 | 31.58 | 31.455 | 31.262 | 31.262 | 23.649 |
| 250.000 | 30.866 | 31.104 | 30.884 | | 30.774 | 23.269 |
| 260.000 | 30.378 | 30.616 | 30.396 | | 30.286 | 22.889 |
| 262.111 | 30.275 | | | | | 22.809 |
| 263.610 | 30.277 | | | | | 22.751 |
| 270.000 | 30.057 | | | | | 22.652 |
| 270.709 | 30.033 | | | | | 22.632 |
| 272.209 | 29.928 | | | | | 22.589 |
| 280.000 | 29.772 | | | | | 21.503 |
| 290.000 | 29.572 | | | | | 21.573 |
| 299.643 | 29.379 | | | | | 21.53 |
| 300.000 | 29.372 | | | | | 21.531 |
| 310.000 | 29.118 | | | | | 21.538 |
| 314.643 | 28.967 | 29.132 | 29.067 | 28.875 | 28.875 | 21.539 |
| 320.000 | 28.765 | 28.931 | 28.866 | 28.673 | 28.673 | 21.573 |

## LONGITUDINAL SECTION ALONG MC02 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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ARCHITECT

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500 @ A1 — 0 5 10 15 20 25m

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**ROAD LONGITUDINAL SECTIONS SHEET 05**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.45**
REVISION **06**
DRAWING SHEET SIZE = A1

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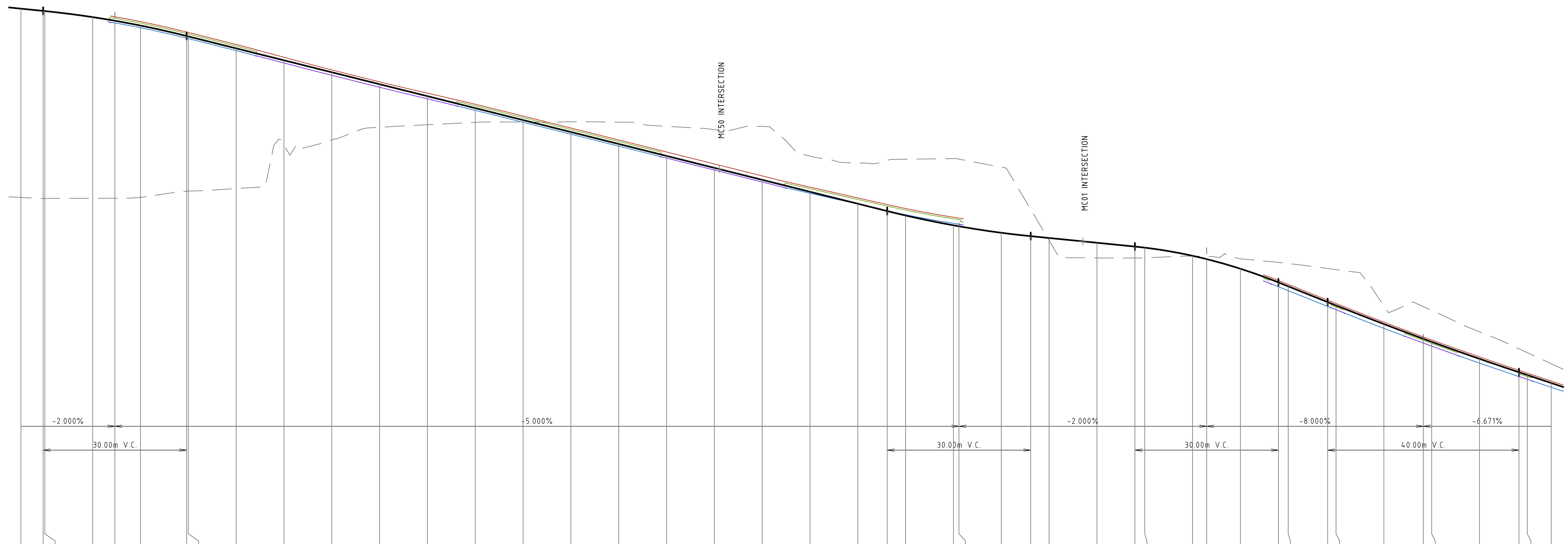


| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 295.000 | 29.472 | | | | | 21.574 |
| 299.643 | 29.379 | | | | | 21.53 |
| 300.000 | 29.372 | | | | | 21.531 |
| 310.000 | 29.118 | | | | | 21.538 |
| 314.643 | 28.967 | 29.132 | 29.067 | 28.875 | 28.875 | 21.539 |
| 320.000 | 28.765 | 28.931 | 28.866 | 28.673 | 28.673 | 21.573 |
| 329.643 | 28.329 | 28.495 | 28.431 | 28.238 | 28.238 | 21.837 |
| 330.000 | 28.311 | 28.477 | 28.413 | 28.22 | 28.22 | 21.839 |
| 340.000 | 27.811 | 27.973 | 27.908 | 27.716 | 27.716 | 21.945 |
| 350.000 | 27.311 | 27.439 | 27.31 | | 27.2 | 23.767 |
| 360.000 | 26.811 | 26.91 | 26.794 | | 26.684 | 23.98 |
| 370.000 | 26.311 | 26.41 | 26.294 | | 26.184 | 24.509 |
| 380.000 | 25.811 | 25.937 | 25.809 | | 25.699 | 24.615 |
| 390.000 | 25.311 | 25.472 | 25.407 | 25.216 | 25.216 | 24.714 |
| 400.000 | 24.811 | 24.977 | 24.913 | 24.72 | 24.72 | 24.73 |
| 410.000 | 24.311 | 24.477 | 24.413 | 24.22 | 24.22 | 24.737 |
| 420.000 | 23.811 | 23.977 | 23.913 | 23.72 | 23.72 | 24.725 |
| 430.000 | 23.311 | 23.475 | 23.33 | | 23.22 | 24.549 |
| 440.000 | 22.811 | 22.975 | 22.83 | | 22.72 | 24.41 |
| 450.000 | 22.311 | 22.475 | 22.33 | | 22.22 | 24.543 |
| 460.000 | 21.811 | 22.005 | 21.94 | 21.747 | 21.747 | 23.303 |
| 470.000 | 21.311 | 21.553 | 21.489 | 21.296 | 21.296 | 23.011 |
| 476.149 | 21.004 | 21.276 | 21.211 | 21.018 | 21.018 | 23.123 |
| 480.000 | 20.819 | 21.109 | 21.045 | 20.852 | 20.852 | 23.172 |
| 490.000 | 20.407 | 20.746 | 20.682 | 20.489 | 20.489 | 23.2 |
| 491.149 | 20.366 | 20.711 | 20.646 | 20.446 | 20.453 | 23.175 |
| 500.000 | 20.096 | | | | | 22.84 |
| 506.149 | 19.954 | | | | | 21.076 |
| 510.000 | 19.877 | | | | | 19.774 |
| 520.000 | 19.677 | | | | | 19.041 |
| 527.949 | 19.518 | | | | | 19.039 |
| 530.000 | 19.473 | | | | | 19.046 |
| 540.000 | 19.132 | | | | | 19.116 |
| 542.949 | 18.993 | | | | | 19.106 |
| 550.000 | 18.591 | | | | | 19.009 |
| 557.949 | 18.018 | 18.099 | 18.032 | 17.839 | 17.839 | 18.856 |
| 560.000 | 17.854 | 17.935 | 17.868 | 17.675 | 17.675 | 18.808 |
| 568.249 | 17.194 | 17.275 | 17.208 | 17.015 | 17.015 | 18.6 |
| 570.000 | 17.054 | 17.133 | 16.986 | | 16.876 | 18.554 |
| 580.000 | 16.277 | 16.358 | 16.291 | 16.098 | 16.098 | 17.036 |
| 588.249 | 15.66 | 15.74 | 15.592 | | 15.482 | 17.007 |
| 590.000 | 15.532 | 15.612 | 15.464 | | 15.354 | 16.85 |
| 600.000 | 14.821 | 14.902 | 14.836 | 14.643 | 14.643 | 15.954 |
| 608.249 | 14.26 | 14.341 | 14.274 | | 14.081 | 15.242 |
| 610.000 | 14.143 | 14.222 | 14.074 | | 13.964 | 15.079 |
| 615.000 | 13.809 | 13.89 | 13.824 | 13.631 | 13.631 | 14.615 |

## LONGITUDINAL SECTION ALONG MC02 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:500@ A1 0 5 10 15 20 25m

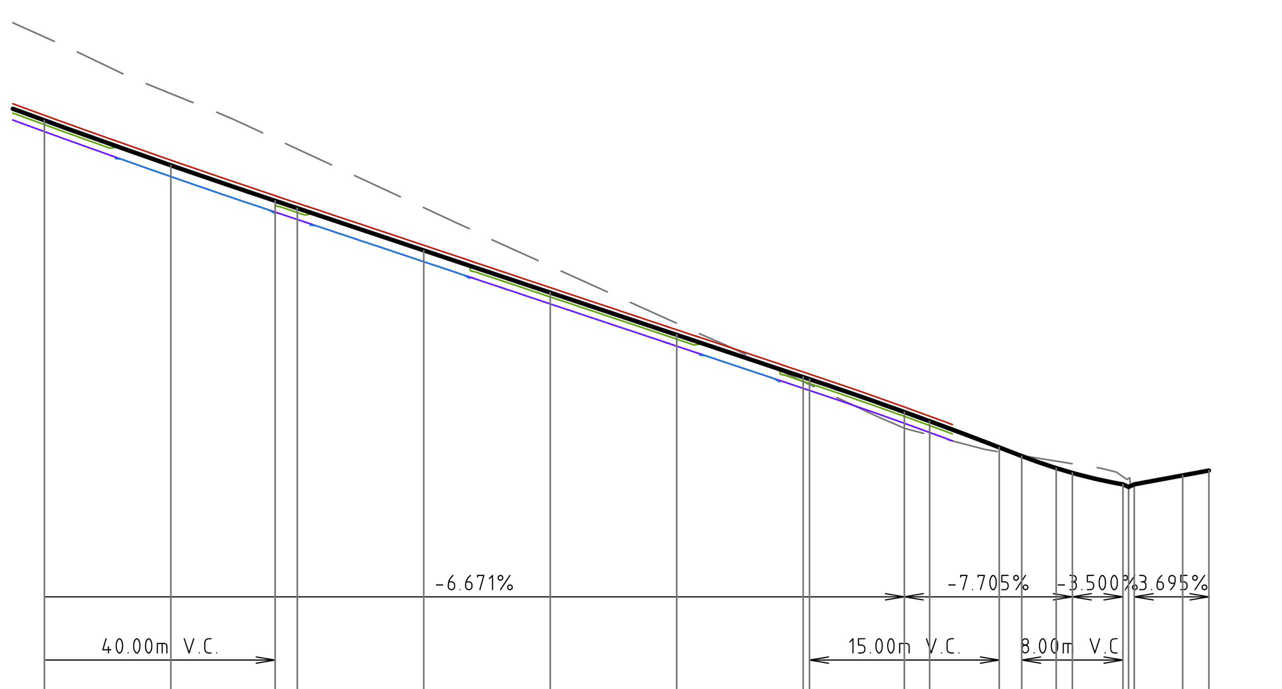
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS SHEET 06

JOB NUMBER 150077-60
DRAWING NUMBER C04.46
REVISION 06
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




DATUM RL 3.0

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.532 | 14.821 | 14.26 | 14.143 | 13.476 | 12.808 | 12.141 | 11.474 | 11.441 | 10.921 | 10.776 | 10.363 | 10.226 | 10.035 | 9.959 | 9.777 | 9.737 | 9.778 | 9.919 | 9.996 |
| LEFT BDY LINE | 15.612 | 14.902 | 14.341 | 14.222 | 13.557 | 12.888 | 12.221 | 11.553 | 11.52 | 11 | 10.855 | | | | | | | | | |
| LEFT TOK | 15.464 | 14.836 | 14.274 | 14.074 | 13.49 | 12.74 | 12.073 | 11.406 | 11.372 | 10.853 | 10.707 | | | | | | | | | |
| LEFT LIP / PARKING | | 14.643 | | | 13.297 | | | | | | | | | | | | | | | |
| LEFT LIP / LANE | 15.354 | 14.643 | 14.081 | 13.964 | 13.297 | 12.63 | 11.963 | 11.296 | 11.262 | 10.743 | 10.597 | | | | | | | | | |
| EXISTING SURFACE | 16.85 | 15.954 | 15.242 | 15.079 | 14.151 | 13.227 | 12.323 | 11.402 | 11.355 | 10.666 | 10.559 | 10.29 | 10.233 | 10.146 | 10.105 | 9.899 | 9.871 | 9.772 | 9.926 | 9.996 |
| CHAINAGE | 590.000 | 600.000 | 608.249 | 610.000 | 620.000 | 630.000 | 640.000 | 650.000 | 650.500 | 658.000 | 660.000 | 665.500 | 667.278 | 670.000 | 671.278 | 675.278 | 675.729 | 676.180 | 680.000 | 682.080 |

## LONGITUDINAL SECTION ALONG MC02 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500@ A1 — 0 5 10 15 20 25m

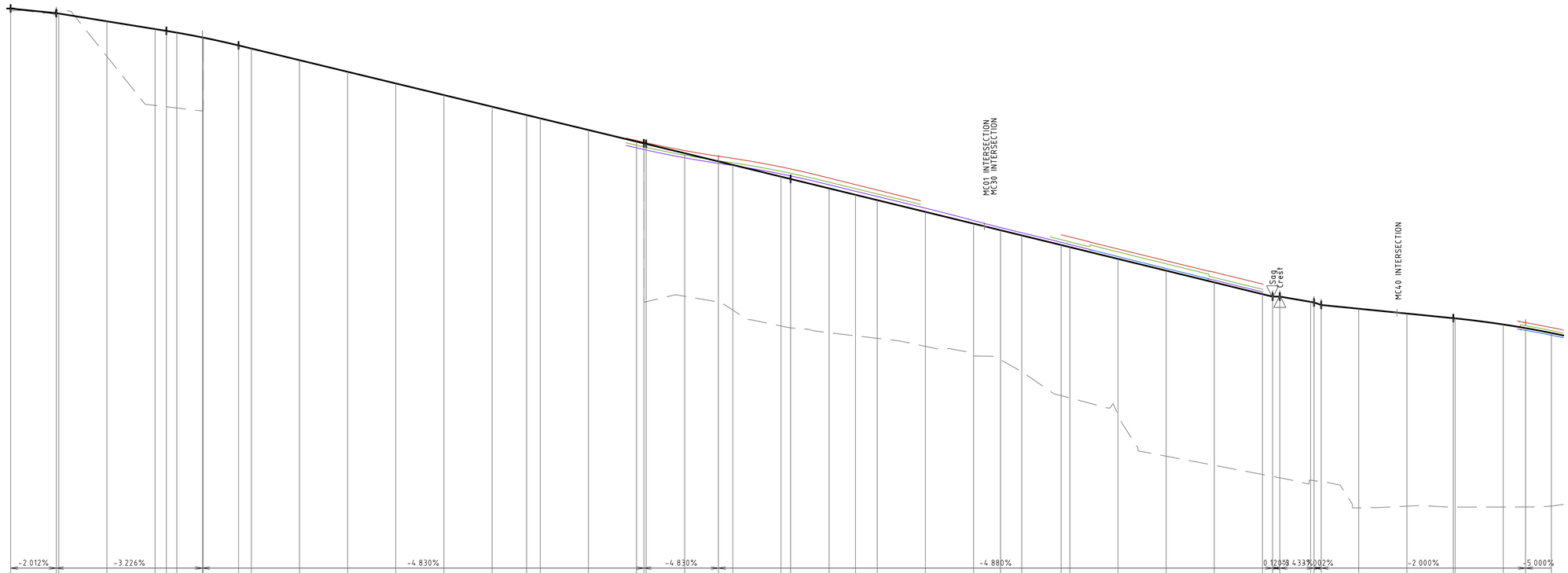
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**ROAD LONGITUDINAL SECTIONS SHEET 07**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.47**
REVISION **06**
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




DESIGN GRADELINE: -2.012% | -3.226% | -4.830% | -4.830% | -4.880% | 0.120% | 4.433% | 2.002% | -2.000% | -5.000%

VERTICAL GEOMETRY: 15.00m V.C | 30.00m V.C | 30.00m V.C

HORIZONTAL GEOMETRY: 322.4m RAD | 500m RAD | -1000m RAD | -500m RAD

DATUM RL 14.0

| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 42.238 | | | | | 42.184 |
| 9.494 | 42.047 | | | | | 42.151 |
| 10.000 | 42.031 | | | | | 42.167 |
| 20.000 | 41.708 | | | | | 40.252 |
| 30.000 | 41.386 | | | | | 38.216 |
| 32.345 | 41.31 | | | | | 38.161 |
| 34.517 | 41.237 | | | | | 38.11 |
| 39.845 | 41.038 | | | | | 37.986 |
| 40.000 | 41.032 | | | | | 41.032 |
| 47.345 | 40.706 | | | | | 40.706 |
| 50.000 | 40.577 | | | | | 40.578 |
| 60.000 | 40.094 | | | | | 40.095 |
| 70.000 | 39.611 | | | | | 39.612 |
| 80.000 | 39.128 | | | | | 39.128 |
| 90.000 | 38.645 | | | | | 38.645 |
| 100.000 | 38.162 | | | | | 38.162 |
| 107.161 | 37.816 | | | | | 37.816 |
| 110.000 | 37.679 | | | | | 37.679 |
| 120.000 | 37.196 | | | | | 37.196 |
| 130.000 | 36.713 | 36.758 | 36.563 | | 36.452 | 36.713 |
| 131.535 | 36.639 | 36.689 | 36.495 | | 36.384 | 30.04 |
| 132.000 | 36.617 | 36.668 | 36.474 | | 36.363 | 30.062 |
| 140.000 | 36.23 | 36.34 | 36.15 | | 36.039 | 30.291 |
| 147.000 | 35.89 | 36.106 | 35.919 | | 35.809 | 30.051 |
| 150.000 | 35.744 | 36.018 | 35.833 | | 35.722 | 29.716 |
| 160.000 | 35.258 | 35.662 | 35.482 | | 35.371 | 29.956 |
| 162.000 | 35.16 | 35.578 | 35.399 | | 35.288 | 28.979 |
| 170.000 | 34.77 | 35.2 | 35.027 | | 34.917 | 28.776 |
| 175.473 | 34.503 | 34.927 | 34.761 | | 34.651 | 28.648 |
| 180.000 | 34.282 | 34.702 | 34.542 | | 34.433 | 28.542 |
| 190.000 | 33.794 | | | | 33.949 | 28.209 |
| 200.000 | 33.306 | | | | 33.435 | 27.81 |
| 205.602 | 33.032 | | | | 33.144 | 27.654 |
| 210.000 | 32.818 | | | | 32.927 | 27.156 |
| 218.190 | 32.418 | | 32.641 | | 32.531 | 26.167 |
| 220.000 | 32.33 | 32.755 | 32.55 | | 32.44 | 26.07 |
| 230.000 | 31.842 | 32.253 | 32.13 | 31.937 | 31.937 | 25.385 |
| 240.000 | 31.354 | 31.763 | 31.638 | 31.445 | 31.445 | 23.649 |
| 250.000 | 30.866 | 31.287 | 31.067 | | 30.957 | 23.269 |
| 260.000 | 30.378 | 30.799 | 30.579 | | 30.469 | 22.889 |
| 262.111 | 30.275 | | | | | 22.809 |
| 263.610 | 30.277 | | | | | 22.751 |
| 270.000 | 30.057 | | | | | 22.652 |
| 270.709 | 30.033 | | | | | 22.632 |
| 272.209 | 29.928 | | | | | 22.589 |
| 280.000 | 29.772 | | | | | 21.503 |
| 290.000 | 29.572 | | | | | 21.573 |
| 299.643 | 29.379 | | | | | 21.53 |
| 300.000 | 29.372 | | | | | 21.531 |
| 310.000 | 29.118 | | | | | 21.538 |
| 314.643 | 28.967 | 29.193 | 29.068 | 28.875 | 28.875 | 21.539 |
| 320.000 | 28.765 | 28.991 | 28.866 | 28.673 | 28.673 | 21.573 |

# LONGITUDINAL SECTION ALONG MC02 - RIGHT

HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

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ARCHITECT

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SCALE 1:100 @ A1 (0 1 2 3 4 5m)

SCALE 1:500@ A1 (0 5 10 15 20 25m)

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

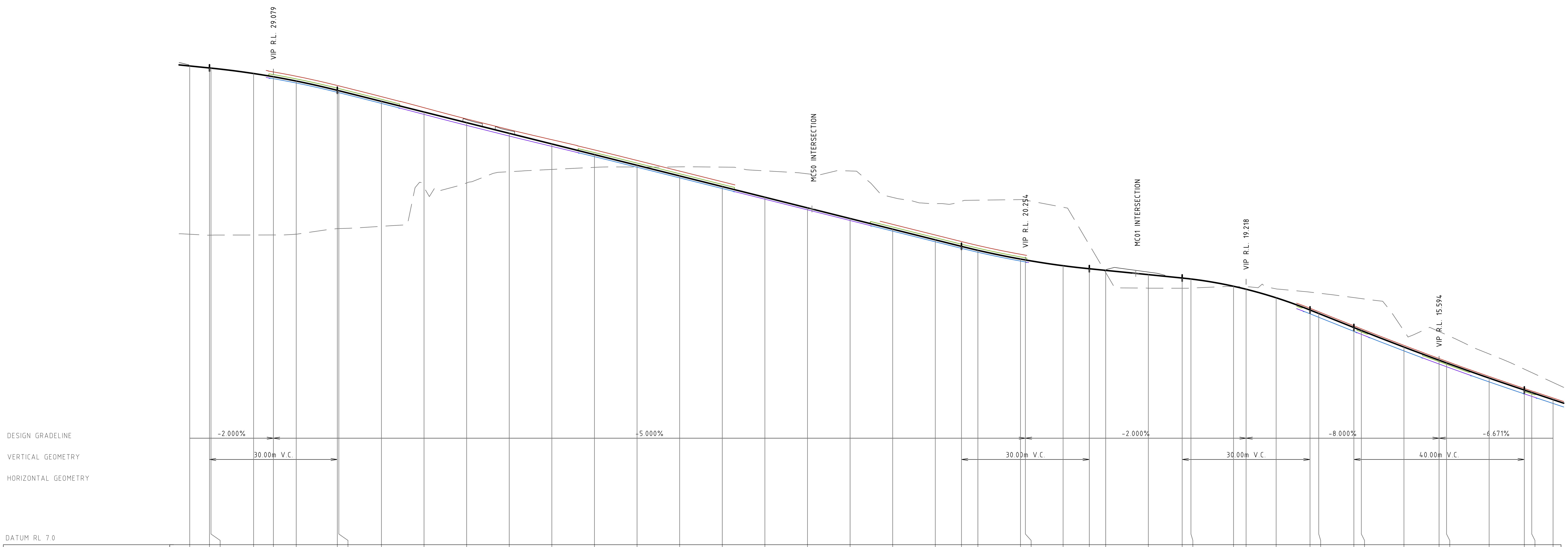
ROAD LONGITUDINAL SECTIONS SHEET 08

JOB NUMBER 150077-60

DRAWING NUMBER C04.48 | REVISION 06

DRAWING SHEET SIZE = A1

Plotted: Thursday, 26 October 2023 - 10:49:00 AM by Mazza, Bruno (Melrose Park Infrastructure DA) - J:\150077-60\Drawings\Civil\150077-60 CAD\04-CIVIL\150077-60_C04.48.dwg




| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.472 | 29.379 | 29.372 | 29.118 | 28.967 | 28.765 | 28.329 | 28.311 | 27.811 |
| RIGHT BDY LINE | | | | | 29.193 | 28.991 | 28.556 | 28.538 | 28.033 |
| RIGHT TOK | | | | | 29.068 | 28.866 | 28.431 | 28.413 | 27.908 |
| RIGHT LIP / PARKING | | | | | 28.875 | 28.673 | 28.238 | 28.22 | 27.716 |
| RIGHT LIP / LANE | | | | | 28.875 | 28.673 | 28.238 | 28.22 | 27.716 |
| EXISTING SURFACE | 21.574 | 21.53 | 21.531 | 21.538 | 21.539 | 21.573 | 21.837 | 21.839 | 21.945 |
| CHAINAGE | 295.000 | 299.643 | 300.000 | 310.000 | 314.643 | 320.000 | 329.643 | 330.000 | 340.000 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.311 | 26.811 | 26.311 | 25.811 | 25.311 | 24.811 | 24.311 | 23.811 | 23.311 | 22.811 | 22.311 | 21.811 |
| RIGHT BDY LINE | 27.514 | 26.985 | 26.485 | 26.012 | 25.532 | 25.038 | 24.538 | 24.038 | | | | 22.038 |
| RIGHT TOK | 27.31 | 26.794 | 26.294 | 25.809 | 25.407 | 24.913 | 24.413 | 23.913 | | | | 21.913 |
| RIGHT LIP / PARKING | | | | | 25.216 | 24.72 | 24.22 | 23.72 | | | | 21.72 |
| RIGHT LIP / LANE | 27.2 | 26.684 | 26.184 | 25.699 | 25.216 | 24.72 | 24.22 | 23.72 | 23.22 | 22.72 | 22.22 | 21.72 |
| EXISTING SURFACE | 23.767 | 23.98 | 24.509 | 24.615 | 24.714 | 24.73 | 24.737 | 24.725 | 24.549 | 24.41 | 24.543 | 23.303 |
| CHAINAGE | 350.000 | 360.000 | 370.000 | 380.000 | 390.000 | 400.000 | 410.000 | 420.000 | 430.000 | 440.000 | 450.000 | 460.000 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 21.311 | 21.004 | 20.819 | 20.407 | 20.366 | 20.096 | 19.954 | 19.877 | 19.677 | 19.518 | 19.473 |
| RIGHT BDY LINE | 21.538 | 21.23 | 21.045 | 20.634 | 20.591 | | | | | | |
| RIGHT TOK | 21.413 | 21.105 | 20.92 | 20.508 | 20.466 | | | | | | |
| RIGHT LIP / PARKING | 21.22 | 20.912 | 20.727 | 20.315 | 20.266 | | | | | | |
| RIGHT LIP / LANE | 21.22 | 20.912 | 20.727 | 20.315 | 20.274 | | | | | | |
| EXISTING SURFACE | 23.011 | 23.123 | 23.172 | 23.2 | 23.175 | 22.84 | 21.076 | 19.774 | 19.041 | 19.039 | 19.046 |
| CHAINAGE | 470.000 | 476.149 | 480.000 | 490.000 | 491.149 | 500.000 | 506.149 | 510.000 | 520.000 | 527.949 | 530.000 |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.132 | 18.993 | 18.591 | 18.018 | 17.854 | 17.194 | 17.054 | 16.277 | 15.66 | 15.532 | 14.821 | 14.26 | 14.143 | 13.809 |
| RIGHT BDY LINE | | | | 18.099 | 17.935 | 17.275 | 17.133 | 16.358 | 15.74 | 15.612 | 14.898 | 14.337 | 14.217 | 13.886 |
| RIGHT TOK | | | | 18.032 | 17.868 | 17.208 | 16.986 | 16.291 | 15.592 | 15.464 | 14.836 | 14.274 | 14.074 | 13.824 |
| RIGHT LIP / PARKING | | | | 17.839 | 17.675 | 17.015 | | 16.098 | | | 14.643 | | | 13.631 |
| RIGHT LIP / LANE | | | | 17.839 | 17.675 | 17.015 | 16.876 | 16.098 | 15.482 | 15.354 | 14.643 | 14.081 | 13.964 | 13.631 |
| EXISTING SURFACE | 19.116 | 19.106 | 19.009 | 18.856 | 18.808 | 18.6 | 18.554 | 17.036 | 17.007 | 16.85 | 15.954 | 15.242 | 15.079 | 14.615 |
| CHAINAGE | 540.000 | 542.949 | 550.000 | 557.949 | 560.000 | 568.249 | 570.000 | 580.000 | 588.249 | 590.000 | 600.000 | 608.249 | 610.000 | 615.000 |

## LONGITUDINAL SECTION ALONG MC02 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA  DESIGNED: A.RIVETT  JOB MANAGER: P.SUTTON  VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

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SCALE 1:100 @ A1: 0 1 2 3 4 5m
SCALE 1:500@ A1: 0 5 10 15 20 25m

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Level 11 345 George Street, Sydney NSW 2000
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Email sydney@northrop.com.au ABN 81 094 433 100

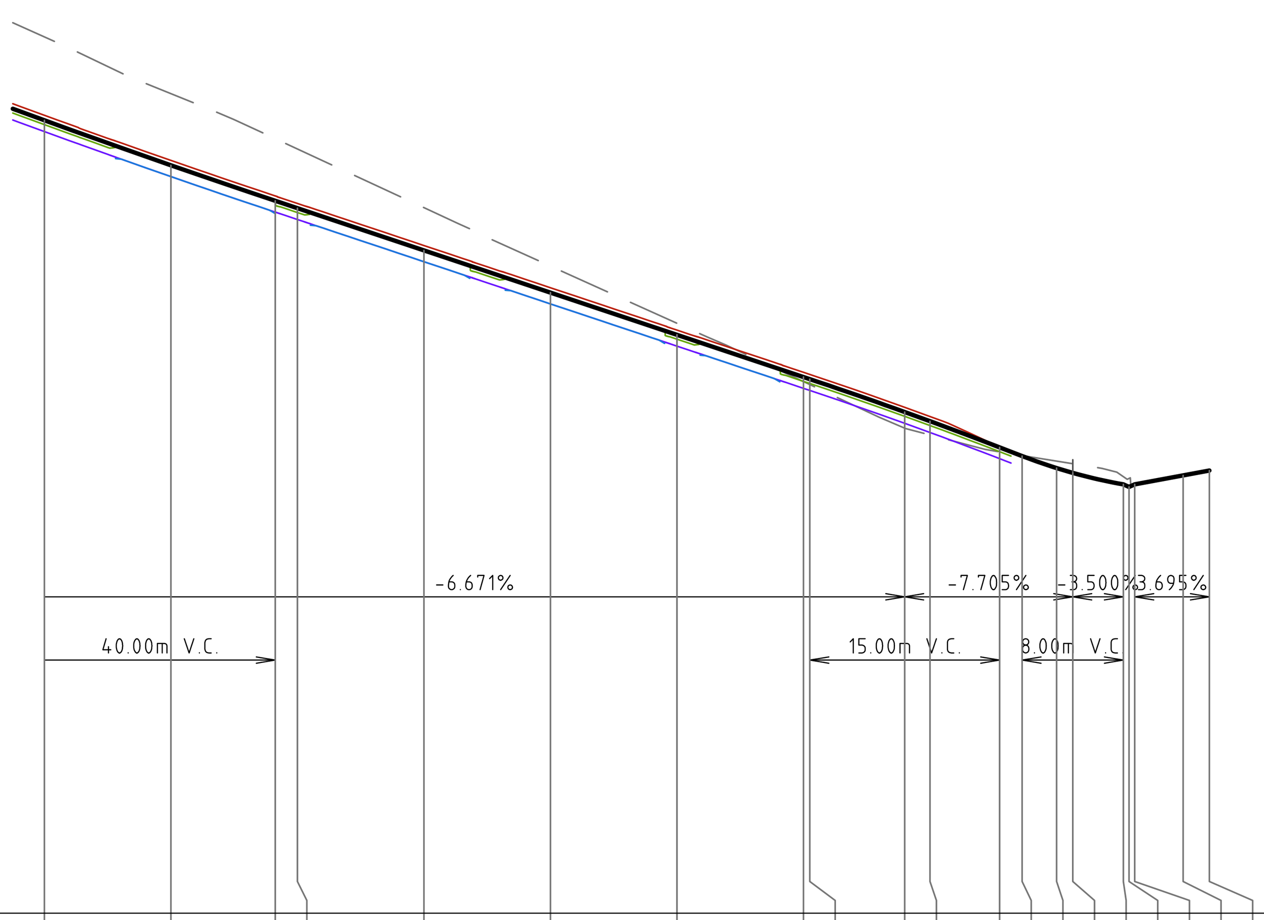
PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS SHEET 09

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.49
REVISION: 06
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -




| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.532 | 14.821 | 14.26 | 14.143 | 13.476 | 12.808 | 12.141 | 11.474 | 11.441 | 10.921 | 10.776 | 10.363 | 10.226 | 10.035 | 9.959 | 9.777 | 9.737 | 9.778 | 9.919 | 9.996 |
| RIGHT BDY LINE | 15.612 | 14.898 | 14.337 | 14.217 | 13.553 | 12.886 | 12.216 | 11.548 | 11.515 | 10.995 | 10.85 | 10.367 | | | | | | | | |
| RIGHT TOK | 15.464 | 14.836 | 14.274 | 14.074 | 13.49 | 12.823 | 12.073 | 11.406 | 11.372 | 10.853 | 10.707 | 10.294 | | | | | | | | |
| RIGHT LIP / PARKING | | 14.643 | | | 13.297 | 12.63 | | | | | | | | | | | | | | |
| RIGHT LIP / LANE | 15.354 | 14.643 | 14.081 | 13.964 | 13.297 | 12.63 | 11.963 | 11.296 | 11.262 | 10.743 | 10.597 | 10.184 | | | | | | | | |
| EXISTING SURFACE | 16.85 | 15.954 | 15.242 | 15.079 | 14.151 | 13.227 | 12.323 | 11.402 | 11.355 | 10.666 | 10.559 | 10.29 | 10.233 | 10.146 | 10.105 | 9.899 | 9.871 | 9.772 | 9.926 | 9.996 |
| CHAINAGE | 590.000 | 600.000 | 608.249 | 610.000 | 620.000 | 630.000 | 640.000 | 650.000 | 650.500 | 658.000 | 660.000 | 665.500 | 667.278 | 670.000 | 671.278 | 675.278 | 675.729 | 676.180 | 680.000 | 682.080 |

## LONGITUDINAL SECTION ALONG MC02 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE

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ARCHITECT

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:500@ A1 0 5 10 15 20 25m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

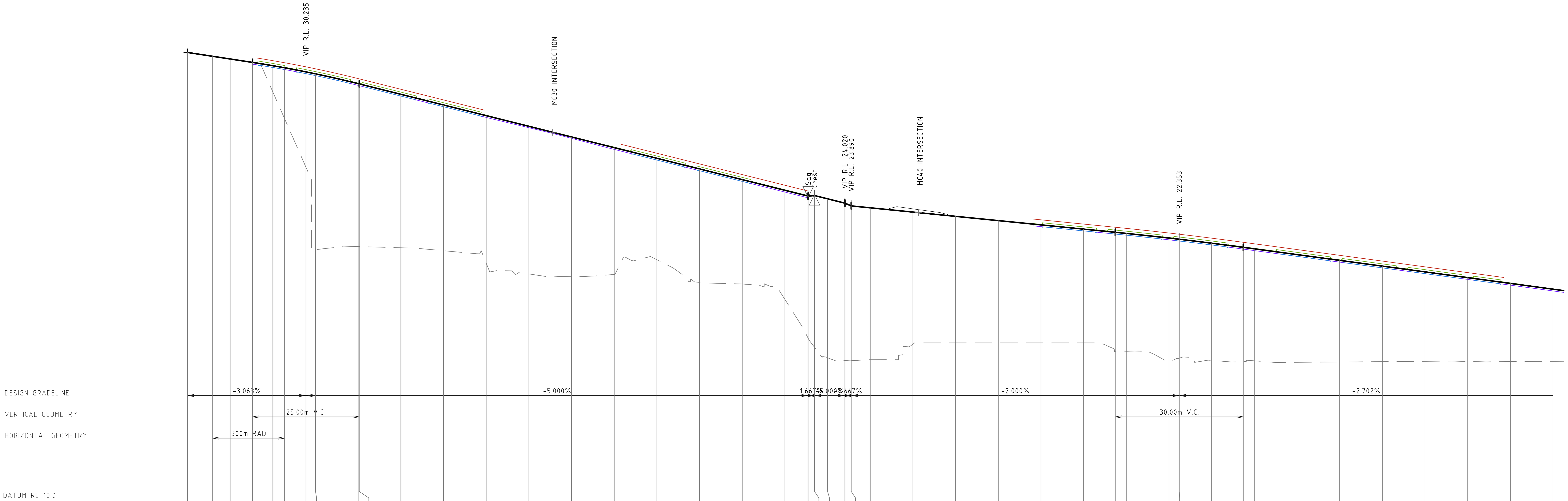
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS
SHEET 10

JOB NUMBER 150077-60
DRAWING NUMBER C04.50
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 31.085 | | | | | 31.085 |
| 5.901 | 30.904 | | | | | 30.899 |
| 10.000 | 30.778 | | | | | 30.778 |
| 15.251 | 30.618 | | 30.645 | | 30.535 | 30.623 |
| 20.000 | 30.463 | 30.7 | 30.568 | 30.381 | 30.381 | 29.233 |
| 22.759 | 30.366 | 30.602 | 30.47 | 30.262 | 30.283 | 27.978 |
| 27.751 | 30.174 | 30.411 | 30.279 | 30.092 | 30.092 | 25.707 |
| 30.000 | 30.082 | 30.318 | 30.186 | 29.999 | 29.999 | 21.836 |
| 40.000 | 29.622 | 29.859 | 29.65 | | 29.54 | 21.984 |
| 40.251 | 29.61 | 29.846 | 29.637 | | 29.527 | 21.983 |
| 50.000 | 29.122 | 29.359 | 29.227 | 29.04 | 29.04 | 21.928 |
| 60.000 | 28.622 | 28.859 | 28.727 | 28.54 | 28.54 | 21.789 |
| 70.000 | 28.122 | | 28.15 | | 28.04 | 21.207 |
| 80.000 | 27.622 | | | | 27.556 | 20.702 |
| 90.000 | 27.122 | | | | 27.058 | 20.573 |
| 100.000 | 26.622 | | 26.65 | | 26.54 | 20.676 |
| 110.000 | 26.122 | 26.359 | 26.227 | 26.04 | 26.04 | 21.367 |
| 120.000 | 25.622 | 25.859 | 25.727 | 25.54 | 25.54 | 20.305 |
| 130.000 | 25.122 | 25.359 | 25.227 | 25.04 | 25.04 | 20.229 |
| 140.000 | 24.622 | 24.859 | 24.65 | | 24.54 | 19.506 |
| 145.445 | 24.35 | | | | | 17.687 |
| 146.945 | 24.375 | | | | | 17.259 |
| 150.000 | 24.222 | | | | | 16.773 |
| 154.045 | 24.02 | | | | | 16.647 |
| 155.545 | 23.89 | | | | | 16.653 |
| 160.000 | 23.801 | | | | | 16.679 |
| 170.000 | 23.601 | | | | | 17.409 |
| 180.000 | 23.401 | | | | | 17.47 |
| 190.000 | 23.201 | | | | | 17.47 |
| 200.000 | 23.001 | 23.237 | 23.032 | | 22.918 | 17.47 |
| 210.000 | 22.801 | 23.037 | 22.905 | 22.718 | 22.718 | 17.47 |
| 217.410 | 22.653 | 22.889 | 22.757 | 22.57 | 22.57 | 17.051 |
| 220.000 | 22.6 | 22.837 | 22.705 | 22.518 | 22.518 | 17.075 |
| 230.000 | 22.382 | 22.619 | 22.41 | | 22.3 | 16.591 |
| 232.410 | 22.326 | 22.563 | 22.431 | 22.244 | 22.244 | 16.751 |
| 240.000 | 22.141 | 22.378 | 22.246 | 22.059 | 22.059 | 16.649 |
| 247.410 | 21.947 | 22.184 | 21.975 | | 21.865 | 16.59 |
| 250.000 | 21.877 | 22.114 | 21.905 | | 21.795 | 16.627 |
| 260.000 | 21.607 | 21.844 | 21.712 | 21.525 | 21.525 | 16.558 |
| 270.000 | 21.337 | 21.574 | 21.365 | | 21.255 | 16.572 |
| 280.000 | 21.067 | 21.303 | 21.171 | 20.984 | 20.984 | 16.588 |
| 290.000 | 20.797 | 21.033 | 20.901 | 20.714 | 20.714 | 16.605 |
| 300.000 | 20.526 | 20.763 | 20.554 | | 20.444 | 16.598 |
| 310.000 | 20.256 | | 20.284 | | 20.174 | 16.595 |
| 320.000 | 19.986 | | | | 19.904 | 16.604 |

## LONGITUDINAL SECTION ALONG MC03 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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ARCHITECT

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500@ A1 — 0 5 10 15 20 25m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 11

JOB NUMBER 150077-60
DRAWING NUMBER C04.51
REVISION 07
DRAWING SHEET SIZE = A1

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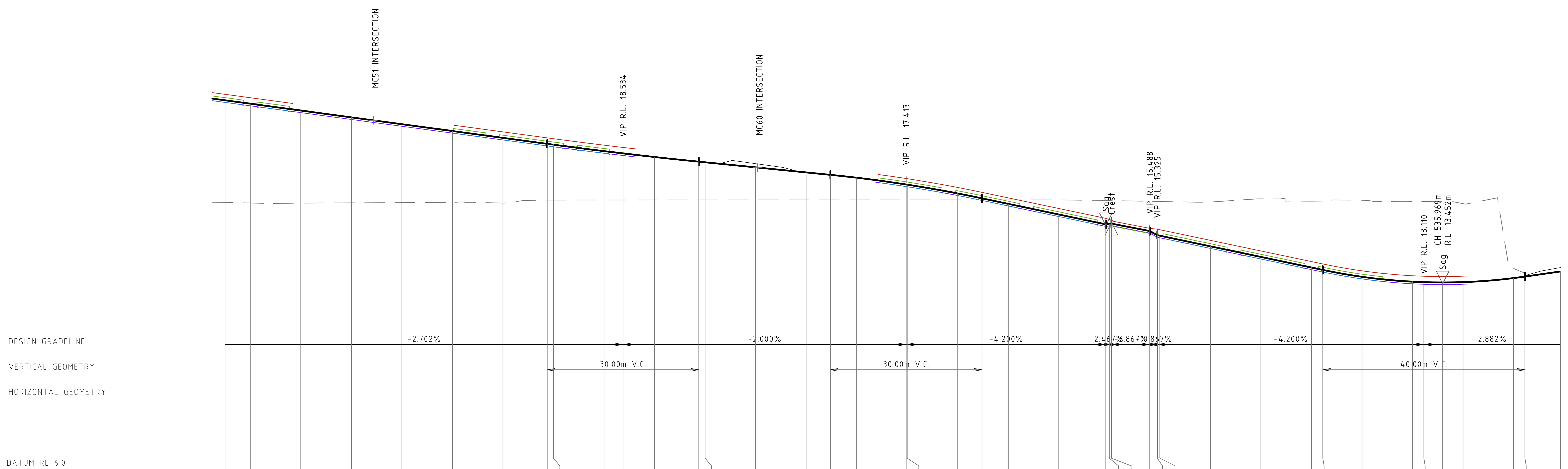


| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 295.000 | 20.662 | 20.898 | 20.766 | 20.579 | 20.579 | 16.613 |
| 300.000 | 20.526 | 20.763 | 20.554 | | 20.444 | 16.598 |
| 310.000 | 20.256 | | 20.284 | | 20.174 | 16.595 |
| 320.000 | 19.986 | | | | 19.904 | 16.604 |
| 330.000 | 19.716 | | | | 19.633 | 16.614 |
| 340.000 | 19.446 | | 19.483 | | 19.363 | 16.623 |
| 350.000 | 19.176 | 19.412 | 19.28 | 19.093 | 19.093 | 16.595 |
| 358.760 | 18.939 | 19.175 | 19.043 | 18.856 | 18.856 | 16.715 |
| 360.000 | 18.906 | 19.142 | 19.01 | 18.823 | 18.823 | 16.715 |
| 370.000 | 18.65 | 18.886 | 18.754 | 18.567 | 18.567 | 16.716 |
| 373.760 | 18.56 | 18.796 | 18.587 | | 18.477 | 16.717 |
| 380.000 | 18.418 | | | | | 16.717 |
| 388.760 | 18.234 | | | | | 16.718 |
| 390.000 | 18.209 | | | | | 16.718 |
| 400.000 | 18.009 | | | | | 16.719 |
| 410.000 | 17.809 | | | | | 16.72 |
| 414.801 | 17.713 | | | | | 16.72 |
| 420.000 | 17.599 | | | | | 16.72 |
| 429.801 | 17.33 | 17.567 | 17.435 | 17.248 | 17.248 | 16.72 |
| 430.000 | 17.324 | 17.561 | 17.429 | 17.242 | 17.242 | 16.72 |
| 440.000 | 16.976 | 17.212 | 17.08 | 16.888 | 16.893 | 16.72 |
| 444.801 | 16.783 | 17.019 | 16.887 | 16.7 | 16.7 | 16.72 |
| 450.000 | 16.564 | 16.801 | 16.669 | 16.482 | 16.482 | 16.72 |
| 460.000 | 16.144 | 16.381 | 16.249 | 16.062 | 16.062 | 16.719 |
| 469.308 | 15.753 | 15.99 | 15.781 | | 15.671 | 16.697 |
| 470.000 | 15.77 | 15.947 | 15.74 | | 15.688 | 16.694 |
| 470.430 | 15.781 | 15.921 | 15.715 | | 15.699 | 16.693 |
| 478.008 | 15.488 | 15.595 | 15.391 | | 15.406 | 16.664 |
| 479.508 | 15.325 | 15.562 | 15.353 | | 15.242 | 16.659 |
| 480.000 | 15.304 | 15.541 | 15.332 | | 15.222 | 16.657 |
| 490.000 | 14.884 | 15.121 | 14.989 | 14.802 | 14.802 | 16.636 |
| 500.000 | 14.464 | 14.701 | 14.569 | 14.382 | 14.382 | 16.762 |
| 510.000 | 14.044 | 14.281 | 14.072 | | 13.962 | 16.67 |
| 512.247 | 13.95 | 14.186 | 14.054 | 13.867 | 13.867 | 16.674 |
| 520.000 | 13.677 | 13.914 | 13.782 | 13.595 | 13.595 | 16.708 |
| 530.000 | 13.483 | 13.72 | 13.511 | | 13.401 | 16.66 |
| 532.247 | 13.464 | 13.701 | 13.492 | | 13.382 | 16.656 |
| 535.969 | 13.452 | 13.688 | 13.479 | | 13.369 | 16.65 |
| 540.000 | 13.466 | 13.703 | 13.494 | | 13.384 | 16.572 |
| 550.000 | 13.626 | | | | | 14.012 |
| 552.247 | 13.686 | | | | | 13.825 |
| 559.265 | 13.889 | | | | | 13.889 |

## LONGITUDINAL SECTION ALONG MC03 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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ARCHITECT

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:500 @ A1 0 5 10 15 20 25m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS SHEET 12

JOB NUMBER 150077-60
DRAWING NUMBER C04.52
REVISION 07
DRAWING SHEET SIZE = A1

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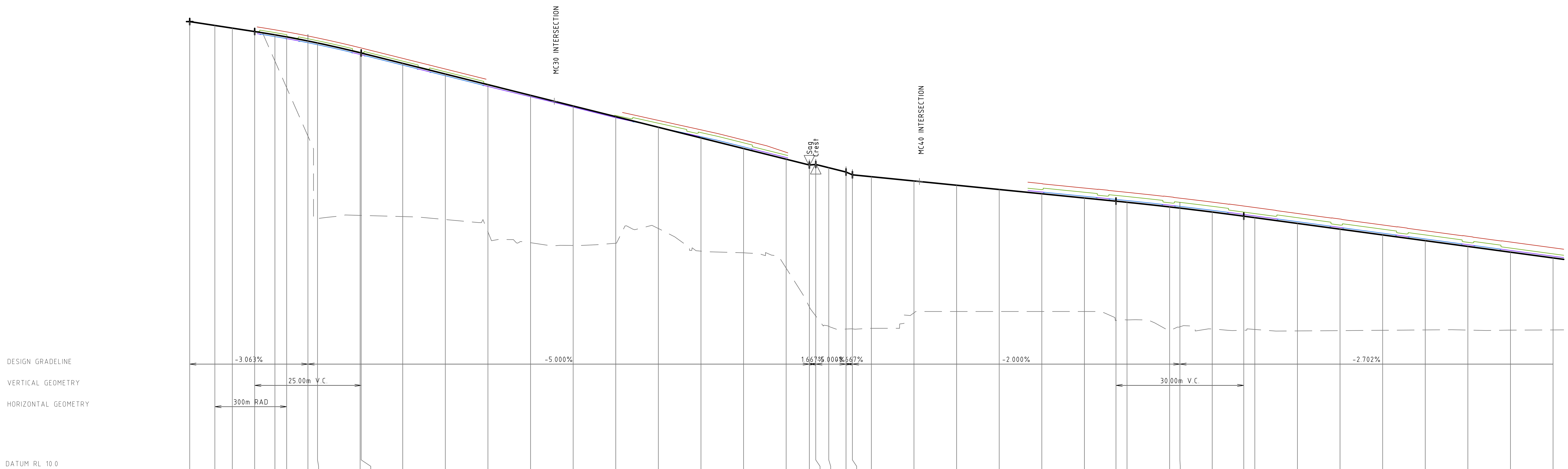


| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 31.085 | | | | | 31.085 |
| 5.901 | 30.904 | | | | | 30.899 |
| 10.000 | 30.778 | | | | | 30.778 |
| 15.251 | 30.618 | | | | | 30.623 |
| 20.000 | 30.463 | 30.7 | 30.568 | 30.381 | 30.381 | 29.233 |
| 22.759 | 30.366 | 30.602 | 30.47 | 30.262 | 30.283 | 27.978 |
| 27.751 | 30.174 | 30.411 | 30.279 | 30.092 | 30.092 | 25.707 |
| 30.000 | 30.082 | 30.318 | 30.186 | 29.999 | 29.999 | 21.836 |
| 40.000 | 29.622 | 29.859 | 29.65 | | 29.54 | 21.984 |
| 40.251 | 29.61 | 29.846 | 29.637 | | 29.527 | 21.983 |
| 50.000 | 29.122 | 29.359 | 29.227 | 29.04 | 29.04 | 21.928 |
| 60.000 | 28.622 | 28.859 | 28.727 | 28.54 | 28.54 | 21.789 |
| 70.000 | 28.122 | | 28.15 | | 28.04 | 21.207 |
| 80.000 | 27.622 | | | | 27.555 | 20.702 |
| 90.000 | 27.122 | | | | 27.067 | 20.573 |
| 100.000 | 26.622 | | 26.679 | | 26.569 | 20.676 |
| 110.000 | 26.122 | 26.445 | 26.313 | 26.126 | 26.126 | 21.367 |
| 120.000 | 25.622 | 26.002 | 25.87 | 25.683 | 25.683 | 20.305 |
| 130.000 | 25.122 | 25.524 | 25.392 | 25.205 | 25.205 | 20.229 |
| 140.000 | 24.622 | 24.947 | 24.815 | | 24.705 | 19.506 |
| 145.445 | 24.35 | | | | | 17.687 |
| 146.945 | 24.375 | | | | | 17.259 |
| 150.000 | 24.222 | | | | | 16.773 |
| 154.045 | 24.02 | | | | | 16.647 |
| 155.545 | 23.89 | | | | | 16.653 |
| 160.000 | 23.801 | | | | | 16.679 |
| 170.000 | 23.601 | | | | | 17.409 |
| 180.000 | 23.401 | | | | | 17.47 |
| 190.000 | 23.201 | | | | | 17.47 |
| 200.000 | 23.001 | 23.476 | 23.197 | | 23.083 | 17.47 |
| 210.000 | 22.801 | 23.268 | 23.07 | 22.883 | 22.883 | 17.47 |
| 217.410 | 22.653 | 23.12 | 22.922 | 22.735 | 22.735 | 17.051 |
| 220.000 | 22.6 | 23.067 | 22.87 | 22.683 | 22.683 | 17.075 |
| 230.000 | 22.382 | 22.859 | 22.575 | | 22.465 | 16.591 |
| 232.410 | 22.326 | 22.793 | 22.596 | 22.409 | 22.409 | 16.751 |
| 240.000 | 22.141 | 22.608 | 22.411 | 22.224 | 22.224 | 16.649 |
| 247.410 | 21.947 | 22.424 | 22.14 | | 22.03 | 16.59 |
| 250.000 | 21.877 | 22.354 | 22.07 | | 21.96 | 16.627 |
| 260.000 | 21.607 | 22.074 | 21.877 | 21.69 | 21.69 | 16.558 |
| 270.000 | 21.337 | 21.814 | 21.53 | | 21.42 | 16.572 |
| 280.000 | 21.067 | 21.534 | 21.336 | 21.149 | 21.149 | 16.588 |
| 290.000 | 20.797 | 21.264 | 21.066 | 20.879 | 20.879 | 16.605 |
| 300.000 | 20.526 | 21.003 | 20.719 | | 20.609 | 16.598 |
| 310.000 | 20.256 | 20.733 | 20.449 | | 20.339 | 16.595 |
| 320.000 | 19.986 | 20.463 | 20.179 | | 20.069 | 16.604 |

# LONGITUDINAL SECTION ALONG MC03 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

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SCALE 1:100 @ A1 (0 1 2 3 4 5m)
SCALE 1:500 @ A1 (0 5 10 15 20 25m)

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS SHEET 13

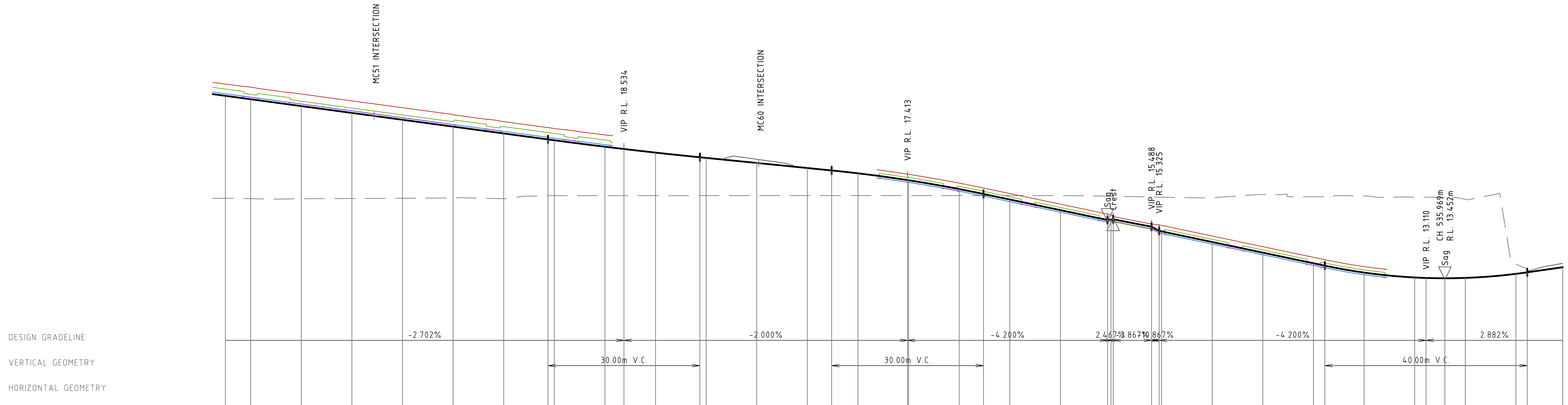
JOB NUMBER: 150077-60

DRAWING NUMBER: C04.53

REVISION: 07

DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




DATUM RL 6.0

| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 295.000 | 20.662 | 21.128 | 20.931 | 20.744 | 20.744 | 16.613 |
| 300.000 | 20.526 | 21.003 | 20.719 | | 20.609 | 16.598 |
| 310.000 | 20.256 | 20.733 | 20.449 | | 20.339 | 16.595 |
| 320.000 | 19.986 | 20.463 | 20.179 | | 20.069 | 16.604 |
| 330.000 | 19.716 | 20.192 | 19.908 | | 19.798 | 16.614 |
| 340.000 | 19.446 | 19.919 | 19.648 | | 19.528 | 16.623 |
| 350.000 | 19.176 | 19.642 | 19.445 | 19.258 | 19.258 | 16.595 |
| 358.760 | 18.939 | 19.406 | 19.208 | 19.021 | 19.021 | 16.715 |
| 360.000 | 18.906 | 19.372 | 19.175 | 18.988 | 18.988 | 16.715 |
| 370.000 | 18.65 | 19.117 | 18.92 | 18.733 | 18.733 | 16.716 |
| 373.760 | 18.56 | | | | | 16.717 |
| 380.000 | 18.418 | | | | | 16.717 |
| 388.760 | 18.234 | | | | | 16.718 |
| 390.000 | 18.209 | | | | | 16.718 |
| 400.000 | 18.009 | | | | | 16.719 |
| 410.000 | 17.809 | | | | | 16.72 |
| 414.801 | 17.713 | | | | | 16.72 |
| 420.000 | 17.599 | | | | | 16.72 |
| 429.801 | 17.33 | 17.567 | 17.435 | 17.248 | 17.248 | 16.72 |
| 430.000 | 17.324 | 17.561 | 17.429 | 17.242 | 17.242 | 16.72 |
| 440.000 | 16.976 | 17.212 | 17.08 | 16.888 | 16.893 | 16.72 |
| 444.801 | 16.783 | 17.019 | 16.887 | 16.7 | 16.7 | 16.72 |
| 450.000 | 16.564 | 16.801 | 16.669 | 16.482 | 16.482 | 16.72 |
| 460.000 | 16.144 | 16.381 | 16.249 | 16.062 | 16.062 | 16.719 |
| 469.308 | 15.753 | 15.99 | 15.781 | | 15.671 | 16.697 |
| 470.000 | 15.77 | 15.947 | 15.74 | | 15.688 | 16.694 |
| 470.430 | 15.781 | 15.921 | 15.715 | | 15.699 | 16.693 |
| 478.008 | 15.488 | 15.595 | 15.391 | | 15.406 | 16.664 |
| 479.508 | 15.325 | 15.561 | 15.353 | | 15.243 | 16.659 |
| 480.000 | 15.304 | 15.541 | 15.332 | | 15.222 | 16.657 |
| 490.000 | 14.884 | 15.121 | 14.989 | 14.802 | 14.802 | 16.636 |
| 500.000 | 14.464 | 14.701 | 14.569 | 14.382 | 14.382 | 16.762 |
| 510.000 | 14.044 | 14.281 | 14.072 | | 13.962 | 16.67 |
| 512.247 | 13.95 | 14.186 | 14.054 | 13.867 | 13.867 | 16.674 |
| 520.000 | 13.677 | 13.914 | 13.782 | 13.595 | 13.595 | 16.708 |
| 530.000 | 13.483 | | | | | 16.66 |
| 532.247 | 13.464 | | | | | 16.656 |
| 535.969 | 13.452 | | | | | 16.65 |
| 540.000 | 13.466 | | | | | 16.572 |
| 550.000 | 13.626 | | | | | 14.012 |
| 552.247 | 13.686 | | | | | 13.825 |
| 559.265 | 13.889 | | | | | 13.889 |

## LONGITUDINAL SECTION ALONG MC03 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT
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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500 @ A1 — 0 5 10 15 20 25m

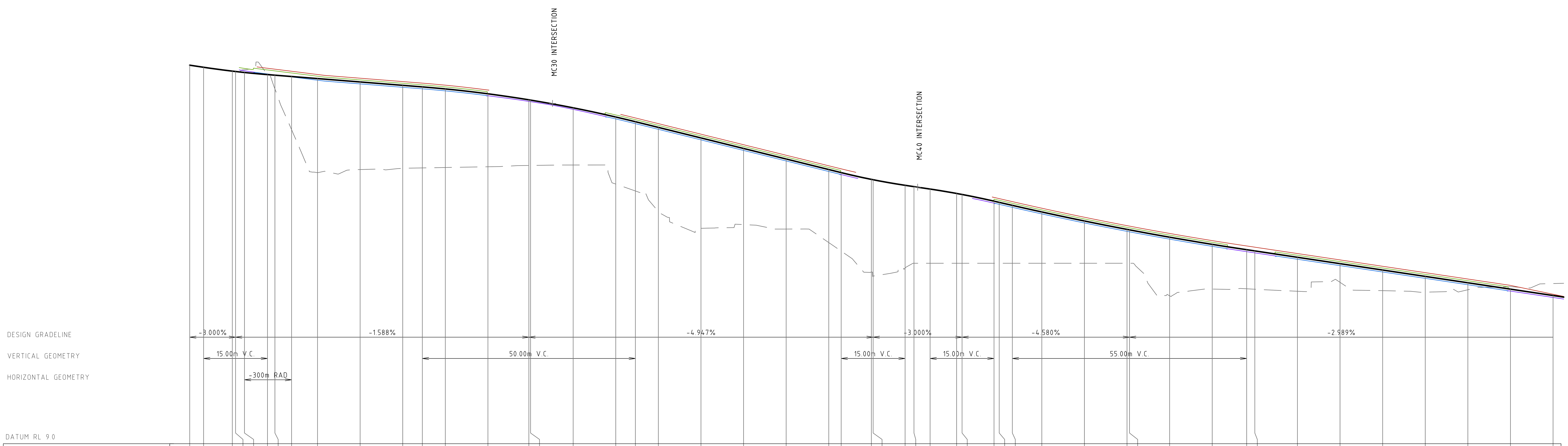
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**ROAD LONGITUDINAL SECTIONS SHEET 14**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.54**
REVISION **07**
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 26.767 | | | | | 26.767 |
| 3.259 | 26.67 | | | | | 26.67 |
| 10.000 | 26.489 | | | | | 26.489 |
| 10.759 | 26.471 | | | | | 26.472 |
| 12.858 | 26.425 | | 26.615 | | 26.505 | 26.556 |
| 18.259 | 26.326 | 26.623 | 26.543 | 26.356 | 26.356 | 26.331 |
| 20.000 | 26.298 | 26.58 | 26.5 | 26.313 | 26.313 | 25.653 |
| 23.915 | 26.236 | 26.482 | 26.402 | 26.215 | 26.215 | 23.74 |
| 30.000 | 26.139 | 26.33 | 26.249 | 26.062 | 26.062 | 21.722 |
| 40.000 | 25.98 | 26.157 | 26.076 | 25.889 | 25.889 | 21.869 |
| 50.000 | 25.822 | 25.998 | 25.917 | 25.73 | 25.73 | 21.926 |
| 54.606 | 25.748 | 25.925 | 25.844 | 25.657 | 25.657 | 21.946 |
| 60.000 | 25.653 | 25.829 | 25.748 | 25.561 | 25.561 | 21.965 |
| 70.000 | 25.424 | 25.602 | 25.446 | | 25.333 | 21.999 |
| 79.606 | 25.141 | | | | 25.068 | 22.061 |
| 80.000 | 25.129 | | | | 25.056 | 22.062 |
| 90.000 | 24.766 | | | | 24.693 | 22.081 |
| 100.000 | 24.335 | | 24.431 | 24.244 | 24.244 | 21.186 |
| 104.606 | 24.115 | 24.291 | 24.21 | 24.023 | 24.023 | 20.863 |
| 110.000 | 23.848 | 24.024 | 23.943 | 23.756 | 23.756 | 19.9 |
| 120.000 | 23.353 | 23.529 | 23.449 | 23.262 | 23.262 | 19.111 |
| 130.000 | 22.858 | 23.035 | 22.954 | 22.767 | 22.767 | 19.284 |
| 140.000 | 22.364 | 22.54 | 22.459 | 22.272 | 22.272 | 19.075 |
| 150.000 | 21.869 | 22.045 | 21.964 | 21.777 | 21.777 | 18.44 |
| 152.913 | 21.725 | 21.901 | 21.742 | | 21.633 | 18.04 |
| 160.000 | 21.407 | | | | | 17.055 |
| 160.413 | 21.39 | | | | | 16.861 |
| 167.913 | 21.129 | | | | | 17.243 |
| 170.000 | 21.066 | | | | | 17.47 |
| 173.780 | 20.953 | | | | | 17.47 |
| 180.000 | 20.746 | | | | | 17.47 |
| 181.280 | 20.698 | | | | | 17.47 |
| 188.780 | 20.384 | 20.561 | 20.434 | | 20.293 | 17.47 |
| 190.000 | 20.328 | 20.505 | 20.424 | 20.237 | 20.237 | 17.47 |
| 193.083 | 20.187 | 20.363 | 20.283 | 20.096 | 20.096 | 17.47 |
| 200.000 | 19.877 | 20.054 | 19.973 | 19.786 | 19.786 | 17.47 |
| 210.000 | 19.454 | 19.63 | 19.549 | 19.362 | 19.362 | 17.47 |
| 220.000 | 19.059 | 19.235 | 19.155 | 18.968 | 18.968 | 17.47 |
| 220.583 | 19.037 | 19.213 | 19.133 | 18.946 | 18.946 | 17.47 |
| 230.000 | 18.693 | 18.87 | 18.789 | 18.602 | 18.602 | 15.938 |
| 240.000 | 18.357 | 18.533 | 18.452 | 18.265 | 18.265 | 16.257 |
| 248.083 | 18.106 | 18.282 | 18.124 | | 18.014 | 16.272 |
| 250.000 | 18.048 | 18.225 | 18.067 | | 17.957 | 16.251 |
| 260.000 | 17.749 | 17.926 | 17.845 | 17.658 | 17.658 | 16.155 |
| 270.000 | 17.45 | 17.627 | 17.546 | 17.359 | 17.359 | 16.575 |
| 280.000 | 17.152 | 17.328 | 17.247 | 17.06 | 17.06 | 16.183 |
| 290.000 | 16.853 | 17.029 | 16.948 | 16.761 | 16.761 | 16.113 |
| 300.000 | 16.554 | 16.73 | 16.649 | 16.462 | 16.462 | 16.226 |
| 310.000 | 16.255 | 16.43 | 16.273 | | 16.163 | 16.367 |
| 320.000 | 15.956 | 16.016 | 15.975 | | 15.865 | 16.517 |

## LONGITUDINAL SECTION ALONG MC04 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500@ A1 — 0 5 10 15 20 25m

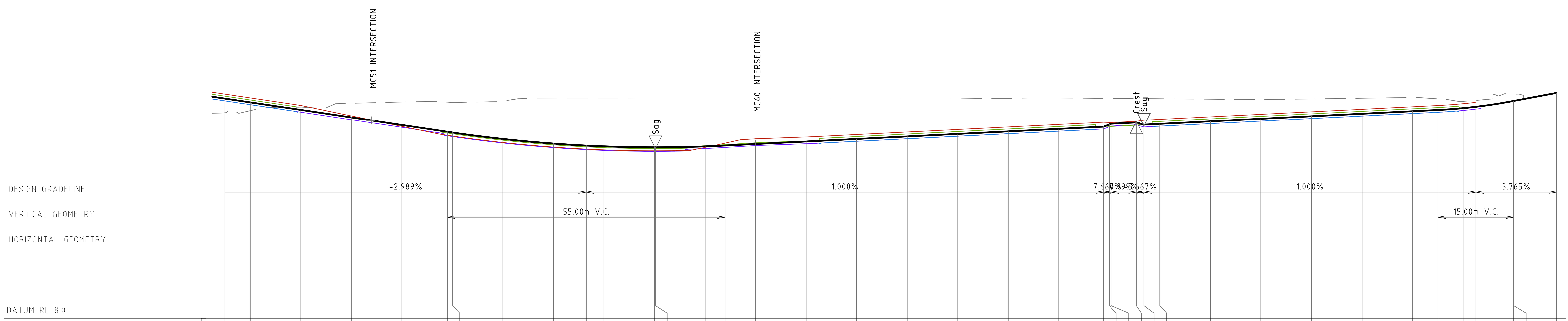
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 15

JOB NUMBER 150077-60
DRAWING NUMBER C04.55
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.703 | 16.554 | 16.255 | 15.956 | 15.657 | 15.389 | 15.359 | 15.103 | 14.921 | 14.841 | 14.811 | 14.773 | 14.773 |
| LEFT BDY LINE | 16.879 | 16.73 | 16.43 | 16.016 | 15.603 | 15.25 | 15.219 | 14.964 | 14.781 | 14.702 | 14.671 | 14.634 | 14.634 |
| LEFT TOK | 16.799 | 16.649 | 16.273 | 15.975 | 15.676 | 15.338 | 15.308 | 15.053 | 14.87 | 14.791 | 14.76 | 14.722 | 14.722 |
| LEFT LIP / PARKING | 16.612 | 16.462 | | | | | | | | | | | |
| LEFT LIP / LANE | 16.612 | 16.462 | 16.163 | 15.865 | 15.566 | 15.228 | 15.198 | 14.943 | 14.76 | 14.681 | 14.65 | 14.612 | 14.612 |
| EXISTING SURFACE | 16.142 | 16.226 | 16.367 | 16.517 | 16.568 | 16.564 | 16.55 | 16.603 | 16.726 | 16.726 | 16.727 | 16.728 | 16.728 |
| CHAINAGE | 295.000 | 300.000 | 310.000 | 320.000 | 330.000 | 338.974 | 340.000 | 350.000 | 360.000 | 366.474 | 370.000 | 380.000 | 380.186 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 14.808 | 14.842 | 14.902 | 15.002 | 15.102 | 15.202 | 15.302 | 15.402 | 15.502 | 15.591 | 15.678 | 15.706 | 15.756 |
| LEFT BDY LINE | 14.768 | 14.937 | 15.109 | 15.181 | 15.278 | 15.378 | 15.478 | 15.578 | 15.678 | 15.767 | 15.756 | 15.753 | 15.803 |
| LEFT TOK | 14.833 | 14.877 | 14.951 | 15.024 | 15.198 | 15.298 | 15.398 | 15.498 | 15.598 | 15.609 | 15.602 | 15.6 | 15.649 |
| LEFT LIP / PARKING | | | | | 15.011 | 15.111 | 15.211 | 15.311 | 15.411 | | | | |
| LEFT LIP / LANE | 14.723 | 14.767 | 14.841 | 14.914 | 15.011 | 15.111 | 15.211 | 15.311 | 15.411 | 15.499 | 15.587 | 15.614 | 15.664 |
| EXISTING SURFACE | 16.729 | 16.729 | 16.729 | 16.73 | 16.73 | 16.73 | 16.724 | 16.71 | 16.728 | 16.713 | 16.712 | 16.711 | 16.703 |
| CHAINAGE | 390.000 | 393.974 | 400.000 | 410.000 | 420.000 | 430.000 | 440.000 | 450.000 | 460.000 | 468.857 | 470.000 | 470.357 | 475.357 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.671 | 15.702 | 15.802 | 15.902 | 16.002 | 16.102 | 16.202 | 16.252 | 16.325 | 16.379 | 16.609 | 16.61 | 16.929 |
| LEFT BDY LINE | 15.847 | 15.878 | 15.978 | 16.078 | 16.178 | 16.278 | 16.378 | 16.429 | 16.501 | | | | |
| LEFT TOK | 15.689 | 15.798 | 15.898 | 15.998 | 16.098 | 16.198 | 16.298 | 16.348 | 16.343 | 16.397 | | | |
| LEFT LIP / PARKING | | 15.611 | 15.711 | 15.811 | 15.911 | 16.011 | 16.111 | 16.161 | | | | | |
| LEFT LIP / LANE | 15.579 | 15.611 | 15.711 | 15.811 | 15.911 | 16.011 | 16.111 | 16.161 | 16.233 | 16.287 | | | |
| EXISTING SURFACE | 16.7 | 16.695 | 16.679 | 16.663 | 16.69 | 16.719 | 16.748 | 16.693 | 16.595 | 16.633 | 16.879 | 16.878 | 16.921 |
| CHAINAGE | 476.857 | 480.000 | 490.000 | 500.000 | 510.000 | 520.000 | 530.000 | 535.031 | 540.000 | 542.531 | 550.000 | 550.031 | 558.498 |

LONGITUDINAL SECTION ALONG MC04 - LEFT

HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT

SEKISUI HOUSE

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:500 @ A1 0 5 10 15 20 25m

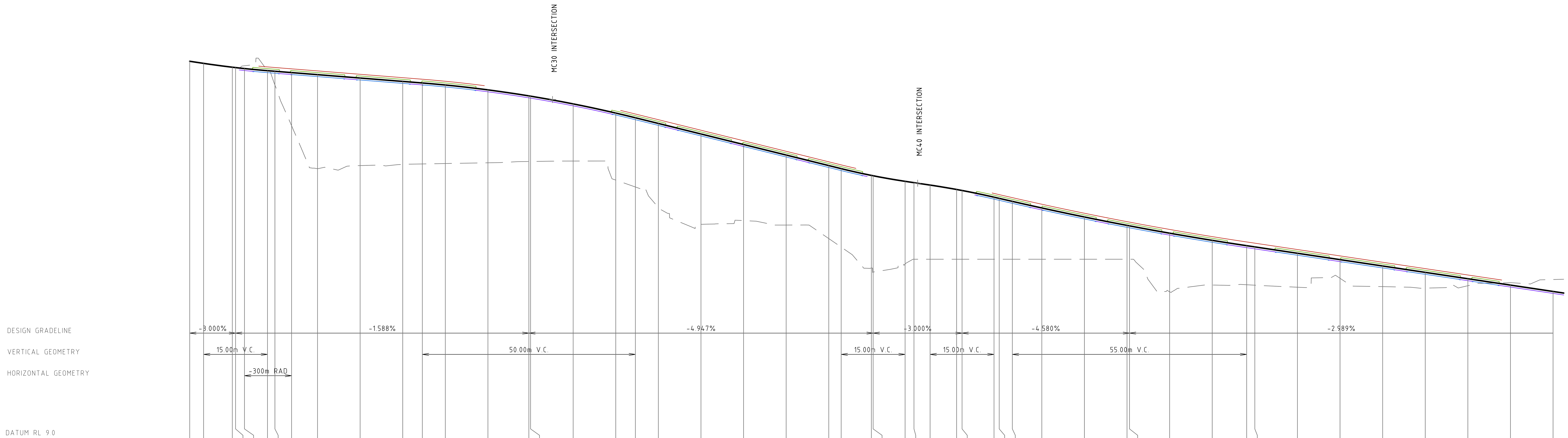
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS SHEET 16

JOB NUMBER 150077-60
DRAWING NUMBER C04.56
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 26.767 | | | | | 26.767 |
| 3.259 | 26.67 | | | | | 26.67 |
| 10.000 | 26.489 | | | | | 26.489 |
| 10.759 | 26.471 | | | | | 26.472 |
| 12.858 | 26.425 | | 26.444 | | 26.334 | 26.556 |
| 18.259 | 26.326 | 26.503 | 26.421 | 26.234 | 26.234 | 26.331 |
| 20.000 | 26.298 | 26.475 | 26.393 | 26.206 | 26.206 | 25.653 |
| 23.915 | 26.236 | 26.412 | 26.331 | 26.13 | 26.144 | 23.74 |
| 30.000 | 26.139 | 26.315 | 26.235 | 26.048 | 26.048 | 21.722 |
| 40.000 | 25.98 | 26.157 | 26.076 | 25.889 | 25.889 | 21.869 |
| 50.000 | 25.822 | 25.998 | 25.917 | 25.73 | 25.73 | 21.926 |
| 54.606 | 25.748 | 25.925 | 25.844 | 25.637 | 25.657 | 21.946 |
| 60.000 | 25.653 | 25.829 | 25.748 | 25.561 | 25.561 | 21.965 |
| 70.000 | 25.424 | | 25.443 | | 25.333 | 21.999 |
| 79.606 | 25.141 | | | | 25.05 | 22.061 |
| 80.000 | 25.129 | | | | 25.037 | 22.062 |
| 90.000 | 24.766 | | | | 24.674 | 22.081 |
| 100.000 | 24.335 | | 24.431 | 24.244 | 24.244 | 21.186 |
| 104.606 | 24.115 | 24.291 | 24.21 | 24.023 | 24.023 | 20.863 |
| 110.000 | 23.848 | 24.024 | 23.943 | 23.756 | 23.756 | 19.9 |
| 120.000 | 23.353 | 23.529 | 23.449 | 23.262 | 23.262 | 19.111 |
| 130.000 | 22.858 | 23.035 | 22.954 | 22.749 | 22.767 | 19.284 |
| 140.000 | 22.364 | 22.54 | 22.459 | 22.272 | 22.272 | 19.075 |
| 150.000 | 21.869 | 22.045 | 21.964 | 21.777 | 21.777 | 18.44 |
| 152.913 | 21.725 | 21.901 | 21.82 | 21.633 | 21.633 | 18.04 |
| 160.000 | 21.407 | | | | | 17.055 |
| 160.413 | 21.39 | | | | | 16.861 |
| 167.913 | 21.129 | | | | | 17.243 |
| 170.000 | 21.066 | | | | | 17.47 |
| 173.780 | 20.953 | | | | | 17.47 |
| 180.000 | 20.746 | | | | | 17.47 |
| 181.280 | 20.698 | | | | | 17.47 |
| 188.780 | 20.384 | 20.561 | 20.48 | 20.293 | 20.293 | 17.47 |
| 190.000 | 20.328 | 20.505 | 20.424 | 20.237 | 20.237 | 17.47 |
| 193.083 | 20.187 | 20.363 | 20.283 | 20.096 | 20.096 | 17.47 |
| 200.000 | 19.877 | 20.054 | 19.919 | | 19.786 | 17.47 |
| 210.000 | 19.454 | 19.63 | 19.549 | 19.362 | 19.362 | 17.47 |
| 220.000 | 19.059 | 19.235 | 19.155 | 18.968 | 18.968 | 17.47 |
| 220.583 | 19.037 | 19.213 | 19.133 | 18.946 | 18.946 | 17.47 |
| 230.000 | 18.693 | 18.87 | 18.712 | | 18.602 | 15.938 |
| 240.000 | 18.357 | 18.533 | 18.452 | 18.265 | 18.265 | 16.257 |
| 248.083 | 18.106 | 18.282 | 18.124 | | 18.014 | 16.272 |
| 250.000 | 18.048 | 18.225 | 18.067 | | 17.957 | 16.251 |
| 260.000 | 17.749 | 17.926 | 17.845 | 17.658 | 17.658 | 16.155 |
| 270.000 | 17.45 | 17.627 | 17.483 | | 17.359 | 16.575 |
| 280.000 | 17.152 | 17.328 | 17.247 | 17.06 | 17.06 | 16.183 |
| 290.000 | 16.853 | 17.029 | 16.948 | 16.761 | 16.761 | 16.113 |
| 300.000 | 16.554 | 16.73 | 16.572 | | 16.462 | 16.226 |
| 310.000 | 16.255 | | 16.273 | | 16.163 | 16.367 |
| 320.000 | 15.956 | | | | 15.865 | 16.517 |

## LONGITUDINAL SECTION ALONG MC04 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA  DESIGNED: A.RIVETT  JOB MANAGER: P.SUTTON  VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

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ARCHITECT

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SCALE 1:500@ A1 — 0 5 10 15 20 25m

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NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — ROAD LONGITUDINAL SECTIONS SHEET 17

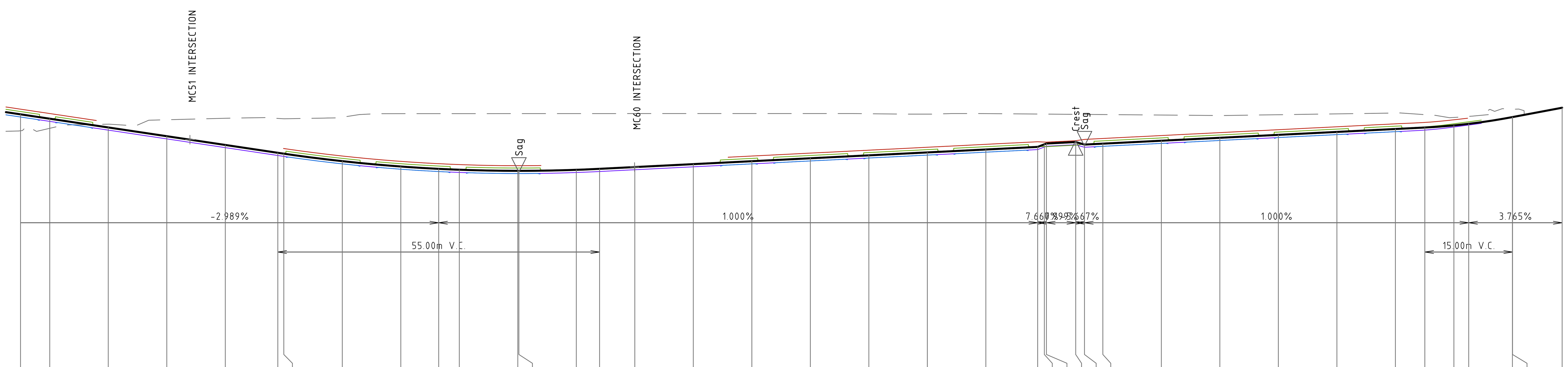
JOB NUMBER: 150077-60
DRAWING NUMBER: C04.57
REVISION: 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg

DESIGN GRADELINE

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY




DATUM RL 8.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.703 | 16.554 | 16.255 | 15.956 | 15.657 | 15.389 | 15.359 | 15.103 | 14.921 | 14.841 | 14.811 | 14.773 | 14.773 |
| RIGHT BDY LINE | 16.879 | 16.73 | | | | | 15.535 | 15.28 | 15.097 | 15.017 | 14.987 | 14.949 | 14.949 |
| RIGHT TOK | 16.799 | 16.572 | 16.273 | | | 15.407 | 15.38 | 15.199 | 15.016 | 14.937 | 14.829 | 14.868 | 14.868 |
| RIGHT LIP / PARKING | 16.612 | | | | | | | 15.012 | 14.829 | 14.75 | | 14.681 | 14.681 |
| RIGHT LIP / LANE | 16.612 | 16.462 | 16.163 | 15.865 | 15.566 | 15.297 | 15.267 | 15.012 | 14.829 | 14.75 | 14.719 | 14.681 | 14.681 |
| EXISTING SURFACE | 16.142 | 16.226 | 16.367 | 16.517 | 16.568 | 16.564 | 16.55 | 16.603 | 16.726 | 16.726 | 16.727 | 16.728 | 16.728 |
| CHAINAGE | 295.000 | 300.000 | 310.000 | 320.000 | 330.000 | 338.974 | 340.000 | 350.000 | 360.000 | 366.474 | 370.000 | 380.000 | 380.186 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 14.808 | 14.842 | 14.902 | 15.002 | 15.102 | 15.202 | 15.302 | 15.402 | 15.502 | 15.591 | 15.678 | 15.706 | 15.756 |
| RIGHT BDY LINE | | | | | 15.278 | 15.378 | 15.478 | 15.578 | 15.678 | 15.767 | 15.756 | 15.753 | 15.803 |
| RIGHT TOK | | | | | 15.198 | 15.298 | 15.398 | 15.498 | 15.598 | 15.609 | 15.602 | 15.6 | 15.649 |
| RIGHT LIP / PARKING | | | | | 15.011 | 15.111 | 15.211 | 15.311 | 15.411 | | | | |
| RIGHT LIP / LANE | 14.716 | 14.75 | 14.811 | 14.911 | 15.011 | 15.111 | 15.211 | 15.311 | 15.411 | 15.499 | 15.587 | 15.614 | 15.664 |
| EXISTING SURFACE | 16.729 | 16.729 | 16.729 | 16.73 | 16.73 | 16.73 | 16.724 | 16.71 | 16.728 | 16.713 | 16.712 | 16.711 | 16.703 |
| CHAINAGE | 390.000 | 393.974 | 400.000 | 410.000 | 420.000 | 430.000 | 440.000 | 450.000 | 460.000 | 468.857 | 470.000 | 470.357 | 475.357 |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.671 | 15.702 | 15.802 | 15.902 | 16.002 | 16.102 | 16.202 | 16.252 | 16.325 | 16.379 | 16.609 | 16.61 | 16.929 |
| RIGHT BDY LINE | 15.847 | 15.878 | 15.978 | 16.078 | 16.178 | 16.278 | 16.378 | 16.426 | 16.517 | | | | |
| RIGHT TOK | 15.689 | 15.798 | 15.898 | 15.998 | 16.098 | 16.198 | 16.298 | 16.274 | 16.38 | 16.447 | | | |
| RIGHT LIP / PARKING | | 15.611 | 15.711 | 15.811 | 15.911 | 16.011 | 16.111 | | | | | | |
| RIGHT LIP / LANE | 15.579 | 15.611 | 15.711 | 15.811 | 15.911 | 16.011 | 16.111 | 16.164 | 16.27 | 16.337 | | | |
| EXISTING SURFACE | 16.7 | 16.695 | 16.679 | 16.663 | 16.69 | 16.719 | 16.748 | 16.693 | 16.595 | 16.633 | 16.879 | 16.878 | 16.921 |
| CHAINAGE | 476.857 | 480.000 | 490.000 | 500.000 | 510.000 | 520.000 | 530.000 | 535.031 | 540.000 | 542.531 | 550.000 | 550.031 | 558.498 |

## LONGITUDINAL SECTION ALONG MC04 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500 @ A1 — 0 5 10 15 20 25m

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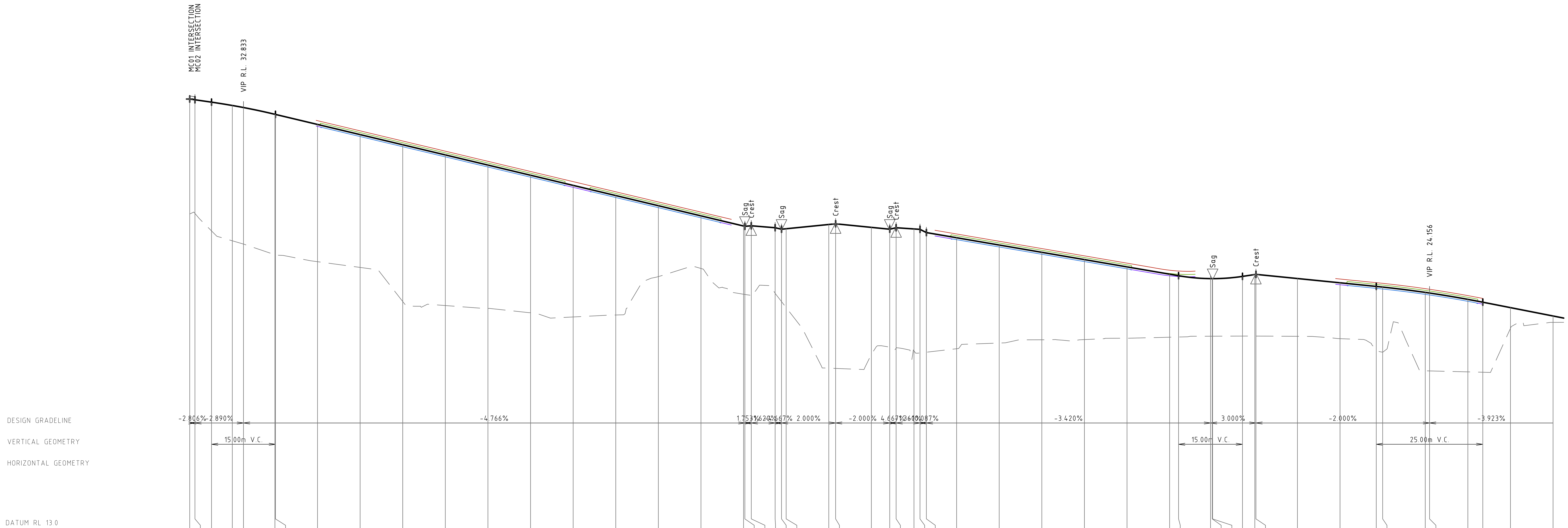
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS SHEET 18

JOB NUMBER 150077-60
DRAWING NUMBER C04.58
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 33.196 | | | | | 27.802 |
| 1.226 | 33.162 | | | | | 27.832 |
| 5.124 | 33.049 | | | | | 27.01 |
| 10.000 | 32.894 | | | | | 26.546 |
| 12.624 | 32.797 | | | | | 26.393 |
| 20.000 | 32.481 | | | | | 25.893 |
| 20.124 | 32.475 | | | | | 25.884 |
| 30.000 | 32.005 | 32.181 | 32.023 | | 31.913 | 25.566 |
| 40.000 | 31.528 | 31.704 | 31.623 | 31.436 | 31.436 | 25.297 |
| 50.000 | 31.051 | 31.228 | 31.147 | 30.96 | 30.96 | 23.697 |
| 60.000 | 30.575 | 30.751 | 30.67 | 30.483 | 30.483 | 23.509 |
| 70.000 | 30.098 | 30.275 | 30.194 | 30.007 | 30.007 | 23.375 |
| 80.000 | 29.622 | 29.798 | 29.717 | 29.53 | 29.53 | 23.173 |
| 90.000 | 29.145 | 29.321 | 29.164 | | 29.054 | 22.973 |
| 100.000 | 28.669 | 28.845 | 28.764 | 28.577 | 28.577 | 23.065 |
| 110.000 | 28.192 | 28.368 | 28.287 | 28.1 | 28.1 | 24.868 |
| 120.000 | 27.715 | 27.892 | 27.811 | 27.624 | 27.624 | 25.248 |
| 130.000 | 27.239 | | | | | 24.039 |
| 130.307 | 27.224 | | | | | 24.029 |
| 131.807 | 27.25 | | | | | 23.986 |
| 137.407 | 27.16 | | | | | 24.082 |
| 138.907 | 27.09 | | | | | 23.694 |
| 140.000 | 27.112 | | | | | 23.412 |
| 150.000 | 27.312 | | | | | 20.572 |
| 151.607 | 27.344 | | | | | 20.559 |
| 160.000 | 27.176 | | | | | 21.217 |
| 164.307 | 27.09 | | | | | 21.526 |
| 165.807 | 27.16 | | | | | 21.507 |
| 170.000 | 27.103 | | | | | 21.384 |
| 171.407 | 27.084 | | | | | 21.285 |
| 172.907 | 26.932 | | | | | 21.32 |
| 180.000 | 26.69 | 26.866 | 26.785 | 26.598 | 26.598 | 21.482 |
| 190.000 | 26.348 | 26.524 | 26.443 | 26.256 | 26.256 | 21.75 |
| 200.000 | 26.006 | 26.182 | 26.101 | 25.914 | 25.914 | 21.903 |
| 210.000 | 25.664 | 25.84 | 25.759 | 25.572 | 25.572 | 21.912 |
| 220.000 | 25.322 | 25.498 | 25.417 | 25.23 | 25.23 | 21.976 |
| 230.000 | 24.98 | 25.165 | 25.013 | | 24.903 | 22.022 |
| 232.102 | 24.908 | 25.128 | 24.979 | | 24.869 | 22.033 |
| 239.602 | 24.772 | | | | | 22.07 |
| 240.000 | 24.771 | | | | | 22.07 |
| 240.093 | 24.771 | | | | | 22.07 |
| 247.102 | 24.876 | | | | | 22.077 |
| 250.000 | 24.963 | | | | | 22.077 |
| 250.257 | 24.971 | | | | | 22.076 |
| 260.000 | 24.776 | | | | | 22.065 |
| 270.000 | 24.576 | 24.752 | 24.595 | | 24.485 | 21.955 |
| 278.509 | 24.406 | 24.582 | 24.501 | 24.314 | 24.314 | 21.416 |
| 280.000 | 24.375 | 24.552 | 24.471 | 24.284 | 24.284 | 21.322 |
| 290.000 | 24.125 | 24.302 | 24.221 | 24.034 | 24.034 | 20.448 |
| 291.009 | 24.096 | 24.272 | 24.191 | 24.004 | 24.004 | 20.443 |
| 300.000 | 23.798 | 23.975 | 23.894 | 23.707 | 23.707 | 20.397 |
| 303.509 | 23.666 | 23.842 | 23.684 | | 23.574 | 20.38 |
| 310.000 | 23.411 | | | | | 22.44 |
| 320.000 | 23.019 | | | | | 22.719 |

## LONGITUDINAL SECTION ALONG MC30 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:500@ A1 0 5 10 15 20 25m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 19

JOB NUMBER 150077-60
DRAWING NUMBER C04.59
REVISION 07
DRAWING SHEET SIZE = A1

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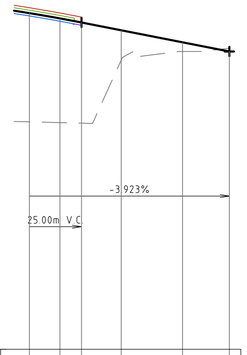


DATUM RL 13.0

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.972 | 23.798 | 23.666 | 23.411 | | 23.019 | 22.719 |
| LEFT BDY LINE | 24.148 | 23.975 | 23.842 | | | | |
| LEFT TOK | 24.067 | 23.894 | 23.684 | | | | |
| LEFT LIP / PARKING | 23.88 | 23.707 | | | | | |
| LEFT LIP / LANE | 23.88 | 23.707 | 23.574 | | | | |
| EXISTING SURFACE | 20.423 | 20.397 | 20.38 | 22.44 | | 22.719 | 22.821 |
| CHAINAGE | 295.000 | 300.000 | 303.509 | 310.000 | | 320.000 | 327.649 |

## LONGITUDINAL SECTION ALONG MC30 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500 @ A1 — 0 5 10 15 20 25m

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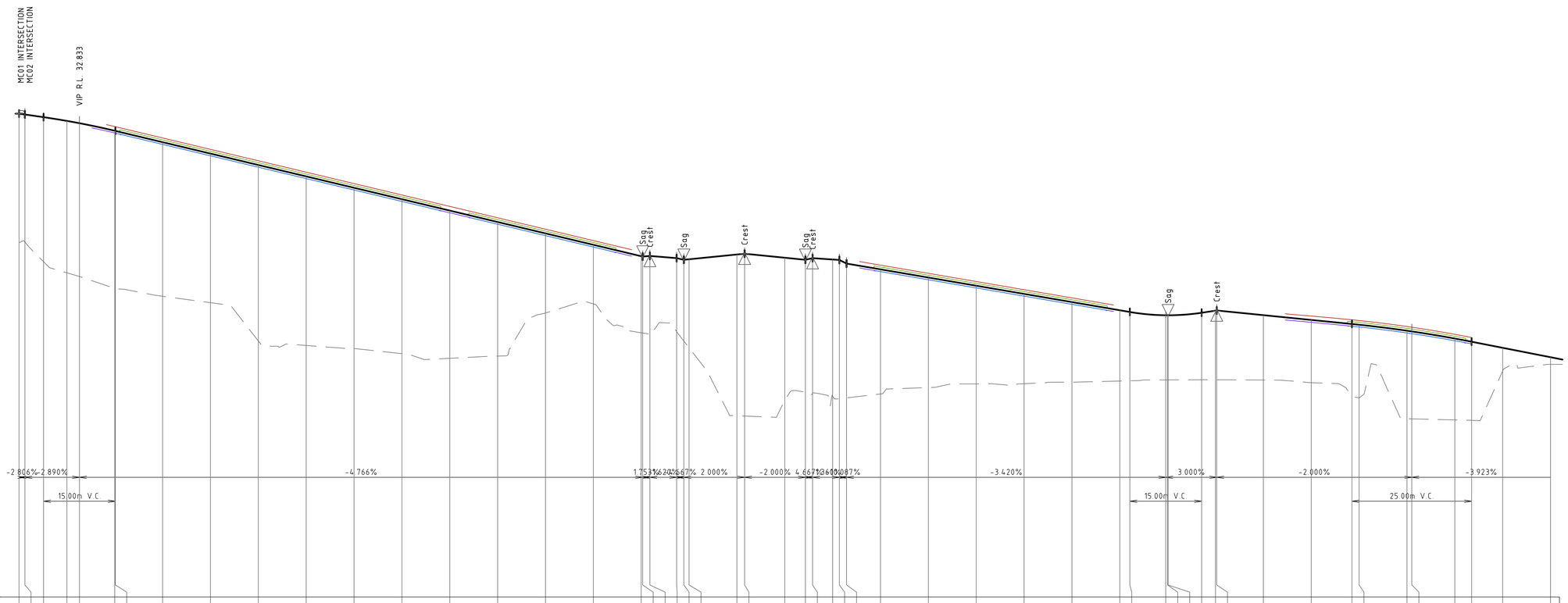
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 20

JOB NUMBER 150077-60
DRAWING NUMBER C04.60
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 06 Oct 2023 08:07:07 AM - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\04\150077-60_C04.61.dwg




DESIGN GRADELINE

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL 13.0

| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 33.196 | | | | | 27.802 |
| 1.226 | 33.162 | | | | | 27.832 |
| 5.124 | 33.049 | | | | | 27.01 |
| 10.000 | 32.894 | | | | | 26.546 |
| 12.624 | 32.797 | | | | | 26.393 |
| 20.000 | 32.481 | 32.657 | 32.5 | 32.39 | 32.39 | 25.893 |
| 20.124 | 32.475 | 32.651 | 32.494 | | 32.384 | 25.884 |
| 30.000 | 32.005 | 32.181 | 32.1 | 31.913 | 31.913 | 25.566 |
| 40.000 | 31.528 | 31.704 | 31.623 | 31.436 | 31.436 | 25.297 |
| 50.000 | 31.051 | 31.228 | 31.147 | 30.96 | 30.96 | 23.697 |
| 60.000 | 30.575 | 30.751 | 30.67 | 30.483 | 30.483 | 23.509 |
| 70.000 | 30.098 | 30.275 | 30.194 | 30.007 | 30.007 | 23.375 |
| 80.000 | 29.622 | 29.798 | 29.717 | 29.53 | 29.53 | 23.173 |
| 90.000 | 29.145 | 29.321 | 29.164 | | 29.054 | 22.973 |
| 100.000 | 28.669 | 28.845 | 28.764 | 28.577 | 28.577 | 23.065 |
| 110.000 | 28.192 | 28.368 | 28.287 | 28.1 | 28.1 | 24.868 |
| 120.000 | 27.715 | 27.892 | 27.811 | 27.624 | 27.624 | 25.248 |
| 130.000 | 27.239 | | | | | 24.039 |
| 130.397 | 27.224 | | | | | 24.029 |
| 131.807 | 27.225 | | | | | 23.986 |
| 137.407 | 27.16 | | | | | 24.082 |
| 138.907 | 27.09 | | | | | 23.694 |
| 140.000 | 27.112 | | | | | 23.412 |
| 150.000 | 27.312 | | | | | 20.572 |
| 151.607 | 27.344 | | | | | 20.559 |
| 160.000 | 27.176 | | | | | 21.217 |
| 164.397 | 27.09 | | | | | 21.526 |
| 165.807 | 27.16 | | | | | 21.507 |
| 170.000 | 27.103 | | | | | 21.384 |
| 171.407 | 27.084 | | | | | 21.285 |
| 172.907 | 26.932 | | | | | 21.32 |
| 180.000 | 26.69 | 26.866 | 26.785 | 26.598 | 26.598 | 21.482 |
| 190.000 | 26.348 | 26.524 | 26.443 | 26.256 | 26.256 | 21.75 |
| 200.000 | 26.006 | 26.182 | 26.101 | 25.914 | 25.914 | 21.903 |
| 210.000 | 25.664 | 25.84 | 25.759 | 25.572 | 25.572 | 21.912 |
| 220.000 | 25.322 | 25.498 | 25.417 | 25.23 | 25.23 | 21.976 |
| 230.000 | 24.98 | | | | | 22.022 |
| 232.102 | 24.908 | | | | | 22.033 |
| 239.602 | 24.772 | | | | | 22.07 |
| 240.000 | 24.771 | | | | | 22.07 |
| 240.093 | 24.771 | | | | | 22.07 |
| 247.102 | 24.876 | | | | | 22.077 |
| 250.000 | 24.963 | | | | | 22.077 |
| 250.257 | 24.971 | | | | | 22.076 |
| 260.000 | 24.776 | | | | | 22.065 |
| 270.000 | 24.576 | 24.739 | 24.587 | 24.477 | | 21.955 |
| 278.509 | 24.406 | 24.582 | 24.501 | 24.314 | 24.314 | 21.416 |
| 280.000 | 24.375 | 24.552 | 24.471 | 24.284 | 24.284 | 21.322 |
| 290.000 | 24.125 | 24.302 | 24.221 | 24.034 | 24.034 | 20.468 |
| 291.009 | 24.096 | 24.272 | 24.191 | 24.004 | 24.004 | 20.443 |
| 300.000 | 23.798 | 23.975 | 23.894 | 23.707 | 23.707 | 20.397 |
| 303.509 | 23.666 | 23.842 | 23.684 | | 23.574 | 20.38 |
| 310.000 | 23.411 | | | | | 22.44 |
| 320.000 | 23.019 | | | | | 22.719 |

## LONGITUDINAL SECTION ALONG MC30 - RIGHT

HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: ARIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT

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SCALE 1:100 @ A1 0 1 2 3 4 5m

SCALE 1:500@ A1 0 5 10 15 20 25m

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PROJECT

**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE

**CIVIL ENGINEERING PACKAGE**

**ROAD LONGITUDINAL SECTIONS SHEET 21**

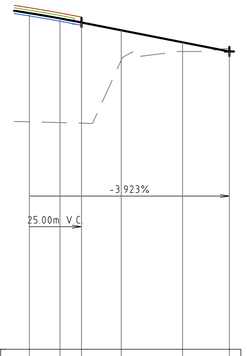
JOB NUMBER **150077-60**

DRAWING NUMBER **C04.61**

REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 7th Oct 2023 at 08:07:19 AM - Melrose Park Infrastructure DA - 2021\10 Drawings\Civil\150077-60 CAD\01 CAD\150077-60_C04.61.dwg




DATUM RL 13.0

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.972 | 23.798 | 23.666 | 23.411 | | 23.019 | 22.719 |
| RIGHT BDY LINE | 24.148 | 23.975 | 23.842 | | | | |
| RIGHT TOK | 24.067 | 23.894 | 23.684 | | | | |
| RIGHT LIP / PARKING | 23.88 | 23.707 | | | | | |
| RIGHT LIP / LANE | 23.88 | 23.707 | 23.574 | | | | |
| EXISTING SURFACE | 20.423 | 20.397 | 20.38 | 22.44 | | 22.719 | 22.821 |
| CHAINAGE | 295.000 | 300.000 | 303.509 | 310.000 | | 320.000 | 327.649 |

## LONGITUDINAL SECTION ALONG MC30 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500@ A1 — 0 5 10 15 20 25m

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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**ROAD LONGITUDINAL SECTIONS SHEET 22**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.62**
REVISION **07**
DRAWING SHEET SIZE = A1

Plotted: 06 Oct 2023 - 10:07:19 AM by Brian Mazza
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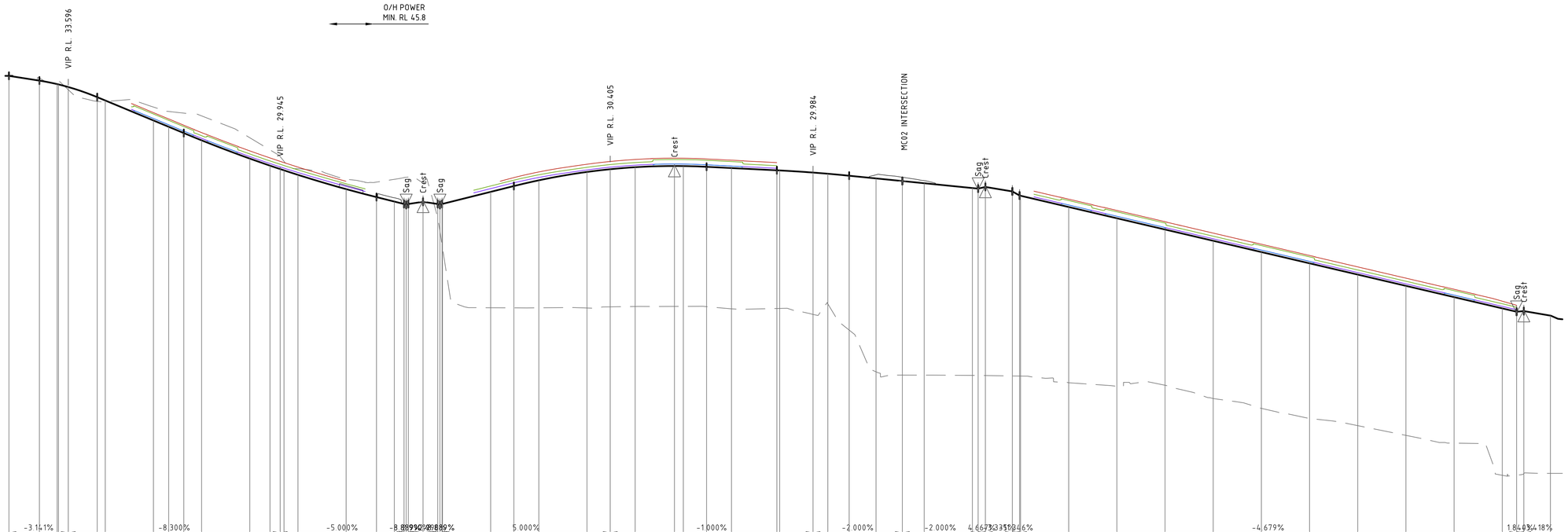


DATUM RL 10.0

| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 33.983 | | | | | 33.983 |
| 6.322 | 33.784 | | | | | 33.889 |
| 10.000 | 33.664 | | | | | 33.721 |
| 10.284 | 33.626 | | | | | 33.774 |
| 12.322 | 33.518 | | | | | 33.405 |
| 18.322 | 33.098 | | | | | 32.923 |
| 20.000 | 32.959 | | | | | 32.917 |
| 30.000 | 32.129 | 32.455 | 32.398 | 32.211 | 32.211 | 32.686 |
| 33.166 | 31.866 | 32.192 | 32.135 | 31.948 | 31.948 | 32.503 |
| 36.302 | 31.606 | 31.932 | 31.875 | 31.688 | 31.688 | 32.434 |
| 40.000 | 31.304 | 31.624 | 31.497 | | 31.387 | 32.319 |
| 50.000 | 30.546 | 30.866 | 30.739 | | 30.629 | 31.411 |
| 54.189 | 30.253 | 30.574 | 30.45 | 30.34 | 30.34 | 30.908 |
| 56.302 | 30.111 | 30.432 | 30.31 | 30.2 | 30.2 | 30.631 |
| 57.102 | 30.058 | 30.379 | 30.259 | 30.149 | 30.149 | 30.433 |
| 60.000 | 29.87 | 30.193 | 30.077 | 29.967 | 29.967 | 30.174 |
| 70.000 | 29.277 | | 29.499 | | 29.389 | 29.687 |
| 76.302 | 28.946 | | | | | 29.57 |
| 80.000 | 28.761 | | | | | 29.684 |
| 82.016 | 28.66 | | | | | 29.757 |
| 82.466 | 28.62 | | | | | 29.77 |
| 82.916 | 28.66 | | | | | 29.78 |
| 85.966 | 28.751 | | | | | 29.618 |
| 89.016 | 28.66 | | | | | 28.101 |
| 89.466 | 28.62 | | | | | 27.529 |
| 89.916 | 28.66 | | | | | 26.952 |
| 90.000 | 28.664 | | | | | 26.844 |
| 100.000 | 29.164 | | 29.408 | | 29.298 | 24.35 |
| 104.821 | 29.405 | 29.756 | 29.649 | | 29.539 | 24.345 |
| 110.000 | 29.644 | 29.991 | 29.872 | | 29.762 | 24.347 |
| 120.000 | 29.991 | 30.311 | 30.184 | | 30.074 | 24.34 |
| 124.821 | 30.105 | 30.425 | 30.298 | | 30.188 | 24.388 |
| 130.000 | 30.189 | 30.509 | 30.381 | | 30.271 | 24.403 |
| 138.154 | 30.238 | 30.564 | 30.508 | 30.321 | 30.321 | 24.405 |
| 140.000 | 30.236 | 30.562 | 30.505 | 30.318 | 30.318 | 24.406 |
| 144.821 | 30.205 | 30.531 | 30.475 | 30.288 | 30.288 | 24.396 |
| 150.000 | 30.153 | 30.479 | 30.423 | 30.236 | 30.236 | 24.305 |
| 159.424 | 30.059 | | | | | 24.319 |
| 160.000 | 30.053 | | | | | 24.321 |
| 166.924 | 29.965 | | | | | 24.073 |
| 170.000 | 29.916 | | | | | 24.51 |
| 174.424 | 29.834 | | | | | 23.423 |
| 180.000 | 29.723 | | | | | 21.689 |
| 185.466 | 29.613 | | | | | 21.553 |
| 190.000 | 29.523 | | | | | 21.551 |
| 200.000 | 29.322 | | | | | 21.54 |
| 201.200 | 29.299 | | | | | 21.539 |
| 202.700 | 29.269 | | | | | 21.535 |
| 208.300 | 29.182 | | | | | 21.516 |
| 209.800 | 29.012 | | | | | 21.512 |
| 210.000 | 29.002 | | | | | 21.512 |
| 220.000 | 28.534 | 28.86 | 28.804 | 28.617 | 28.617 | 21.235 |
| 230.000 | 28.066 | 28.392 | 28.336 | 28.149 | 28.149 | 21.087 |
| 240.000 | 27.598 | 27.925 | 27.868 | 27.667 | 27.681 | 21.13 |
| 250.000 | 27.131 | 27.451 | 27.323 | 27.213 | 27.213 | 23.423 |
| 260.000 | 26.663 | 26.989 | 26.932 | 26.745 | 26.745 | 20.172 |
| 270.000 | 26.195 | 26.521 | 26.464 | 26.277 | 26.277 | 19.749 |
| 280.000 | 25.727 | 26.047 | 25.919 | 25.809 | 25.809 | 19.454 |
| 290.000 | 25.259 | 25.579 | 25.451 | 25.341 | 25.341 | 19.049 |
| 300.000 | 24.791 | 25.117 | 25.061 | 24.874 | 24.874 | 18.725 |
| 310.000 | 24.323 | 24.623 | 24.516 | 24.406 | 24.406 | 17.391 |
| 312.983 | 24.184 | | | | | 17.396 |
| 314.483 | 24.211 | | | | | 17.47 |
| 320.000 | 24.023 | | | | | 17.47 |

## LONGITUDINAL SECTION ALONG MC40 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 (0 1 2 3 4 5m)
SCALE 1:500@ A1 (0 5 10 15 20 25m)

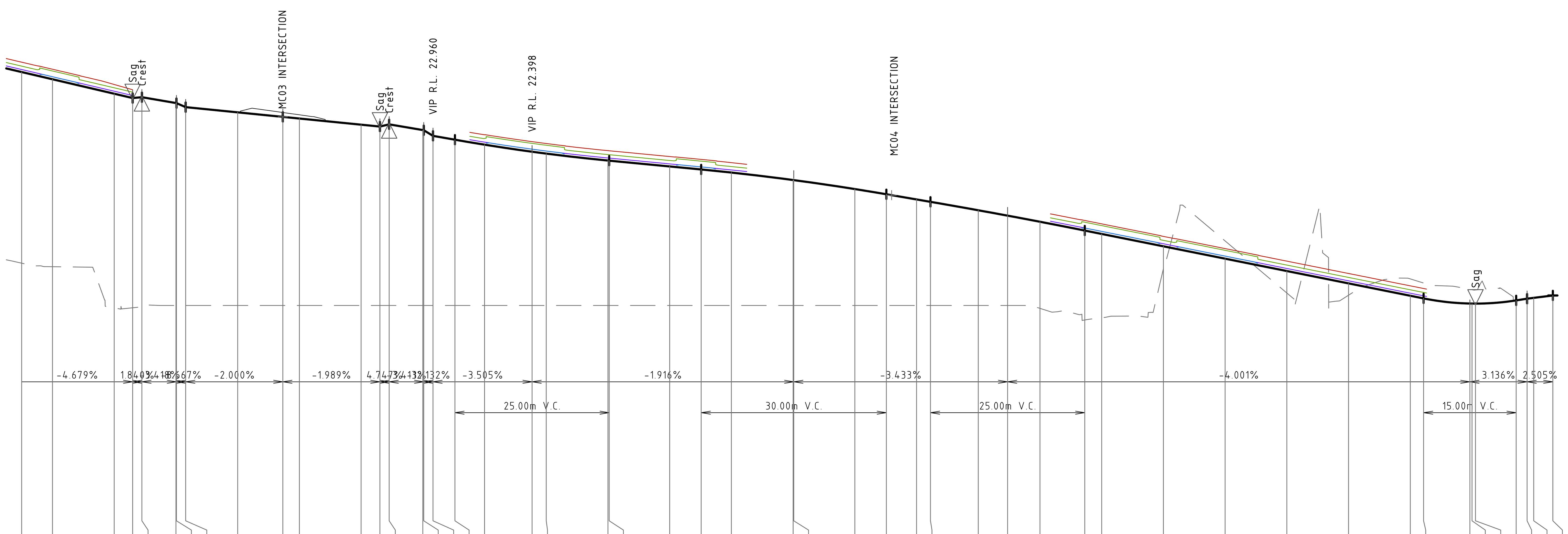
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 23

JOB NUMBER 150077-60
DRAWING NUMBER C04.63
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7th Oct 2023 at 10:07:07 AM - Melrose Park Infrastructure DA - 2021\10 Drawings\Civil\150077-60 CAD\01 CAD\150077-60_C04.63.dwg




DESIGN GRADELINE

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL 10.0

| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 295.000 | 25.025 | 25.345 | 25.218 | | 25.108 | 18.84 |
| 300.000 | 24.791 | 25.117 | 25.061 | 24.874 | 24.874 | 18.725 |
| 310.000 | 24.323 | 24.623 | 24.516 | | 24.406 | 17.391 |
| 312.983 | 24.184 | | | | | 17.396 |
| 314.483 | 24.211 | | | | | 17.47 |
| 320.000 | 24.023 | | | | | 17.47 |
| 320.083 | 24.02 | | | | | 17.47 |
| 321.583 | 23.89 | | | | | 17.47 |
| 330.000 | 23.721 | | | | | 17.47 |
| 337.316 | 23.575 | | | | | 17.47 |
| 340.000 | 23.522 | | | | | 17.47 |
| 350.000 | 23.323 | | | | | 17.47 |
| 353.050 | 23.262 | | | | | 17.47 |
| 354.550 | 23.333 | | | | | 17.47 |
| 360.000 | 23.147 | | | | | 17.47 |
| 360.150 | 23.142 | | | | | 17.47 |
| 361.649 | 22.96 | | | | | 17.47 |
| 365.203 | 22.836 | | | | | 17.47 |
| 370.000 | 22.675 | 22.997 | 22.876 | | 22.757 | 17.47 |
| 377.703 | 22.447 | 22.773 | 22.717 | 22.53 | 22.53 | 17.47 |
| 380.000 | 22.387 | 22.713 | 22.656 | 22.469 | 22.469 | 17.47 |
| 390.000 | 22.162 | 22.482 | 22.354 | | 22.244 | 17.47 |
| 390.203 | 22.158 | 22.478 | 22.351 | | 22.241 | 17.47 |
| 400.000 | 21.97 | 22.291 | 22.163 | | 22.053 | 17.47 |
| 405.106 | 21.872 | 22.199 | 22.142 | 21.955 | 21.955 | 17.47 |
| 410.000 | 21.773 | 22.093 | 21.966 | | 21.856 | 17.47 |
| 420.000 | 21.531 | | | | | 17.47 |
| 420.106 | 21.528 | | | | | 17.47 |
| 430.000 | 21.239 | | | | | 17.47 |
| 435.106 | 21.07 | | | | | 17.47 |
| 440.000 | 20.902 | | | | | 17.47 |
| 442.254 | 20.825 | | | | | 17.47 |
| 450.000 | 20.552 | | | | | 17.47 |
| 454.754 | 20.378 | | | | | 17.47 |
| 460.000 | 20.18 | | | | | 17.377 |
| 467.254 | 19.896 | 20.222 | 20.165 | 19.978 | 19.978 | 17.001 |
| 470.000 | 19.786 | 20.112 | 20.055 | 19.868 | 19.868 | 17.073 |
| 480.000 | 19.386 | 19.706 | 19.578 | | 19.468 | 18.659 |
| 490.000 | 18.986 | 19.312 | 19.255 | 19.068 | 19.068 | 19.559 |
| 500.000 | 18.586 | 18.906 | 18.778 | | 18.668 | 17.873 |
| 510.000 | 18.185 | 18.506 | 18.378 | | 18.268 | 17.803 |
| 520.000 | 17.785 | 18.106 | 17.978 | | 17.868 | 18.33 |
| 522.154 | 17.699 | 18.019 | 17.892 | | 17.782 | 18.198 |
| 529.654 | 17.533 | | | | | 17.994 |
| 530.000 | 17.532 | | | | | 17.981 |
| 530.562 | 17.531 | | | | | 17.973 |
| 537.154 | 17.634 | | | | | 17.634 |
| 538.929 | 17.69 | | | | | 17.69 |
| 540.000 | 17.717 | | | | | 17.718 |
| 543.097 | 17.794 | | | | | 17.794 |

## LONGITUDINAL SECTION ALONG MC40 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT

SEKISUI HOUSE

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SCALE 1:500 @ A1 — 0 5 10 15 20 25m

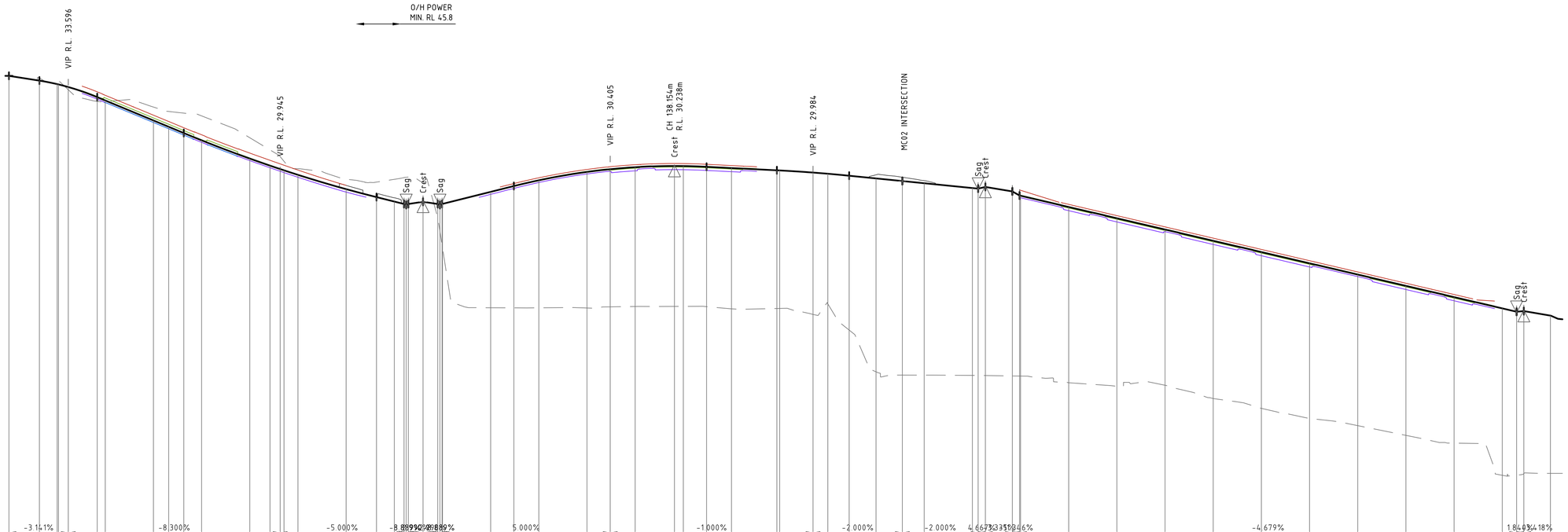
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**ROAD LONGITUDINAL SECTIONS SHEET 24**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.64**
REVISION **07**
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




DATUM RL 10.0

| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 33.983 | | | | | 33.983 |
| 6.322 | 33.784 | | | | | 33.889 |
| 10.000 | 33.664 | 33.721 | | | | 33.721 |
| 10.284 | | 33.774 | | | | |
| 12.322 | 33.626 | 33.405 | | | | |
| 18.322 | 33.518 | | 33.125 | 33.015 | 32.923 | 32.923 |
| 20.000 | 33.098 | 33.319 | 33.063 | 32.866 | 32.876 | 32.917 |
| 30.000 | 32.959 | 33.174 | | | | |
| 33.166 | 32.129 | 32.35 | 32.233 | 32.046 | 32.046 | 32.686 |
| 36.302 | 31.866 | 32.087 | 31.97 | 31.783 | 31.783 | 32.503 |
| 40.000 | 31.606 | 31.827 | 31.71 | 31.523 | 31.523 | 32.434 |
| 50.000 | 31.304 | 31.534 | 31.332 | | 31.222 | 32.319 |
| 54.189 | 30.546 | 30.775 | 30.573 | | 30.463 | 31.411 |
| 56.302 | 30.253 | 30.475 | 30.276 | | 30.166 | 30.908 |
| 57.102 | 30.111 | 30.326 | 30.13 | | 30.02 | 30.631 |
| 60.000 | 30.058 | 30.27 | 30.076 | | 29.966 | 30.433 |
| 70.000 | 29.87 | 30.07 | 29.881 | | 29.771 | 30.174 |
| 76.302 | 29.277 | | 29.264 | | 29.154 | 29.687 |
| 80.000 | 28.946 | | | | | 29.57 |
| 82.016 | 28.761 | | | | | 29.684 |
| 82.466 | 28.66 | | | | | 29.757 |
| 82.916 | 28.62 | | | | | 29.77 |
| 85.966 | 28.66 | | | | | 29.78 |
| 89.016 | 28.751 | | | | | 29.618 |
| 89.466 | 28.66 | | | | | 28.101 |
| 89.916 | 28.62 | | | | | 27.529 |
| 90.000 | 28.66 | | | | | 26.952 |
| 100.000 | 28.664 | 29.171 | | | 29.061 | 26.844 |
| 104.821 | 29.164 | 29.509 | 29.418 | | 29.308 | 24.345 |
| 110.000 | 29.405 | | | | | |
| 120.000 | 29.644 | 29.748 | 29.663 | | 29.553 | 24.347 |
| 124.821 | 29.991 | 30.095 | 30.019 | | 29.909 | 24.34 |
| 130.000 | 30.105 | 30.209 | 30.064 | | 30.014 | 24.388 |
| 138.154 | 30.189 | 30.292 | 30.147 | | 30.037 | 24.403 |
| 140.000 | 30.238 | 30.342 | 30.197 | | 30.087 | 24.405 |
| 144.821 | 30.236 | 30.34 | 30.194 | | 30.084 | 24.406 |
| 150.000 | 30.205 | 30.309 | 30.164 | | 30.054 | 24.396 |
| 159.424 | 30.153 | 30.257 | 30.112 | | 30.002 | 24.305 |
| 160.000 | 30.059 | | | | | 24.319 |
| 166.924 | 30.053 | | | | | 24.321 |
| 170.000 | 29.965 | | | | | 24.073 |
| 174.424 | 29.916 | | | | | 24.51 |
| 180.000 | 29.834 | | | | | 23.423 |
| 185.466 | 29.723 | | | | | 21.689 |
| 190.000 | 29.613 | | | | | 21.553 |
| 200.000 | 29.523 | | | | | 21.551 |
| 201.200 | 29.322 | | | | | 21.54 |
| 202.700 | 29.299 | | | | | 21.539 |
| 208.300 | 29.369 | | | | | 21.535 |
| 209.800 | 29.182 | | | | | 21.516 |
| 210.000 | 29.012 | 29.242 | 29.039 | | 28.929 | 21.512 |
| 220.000 | 29.002 | 29.229 | 29.03 | | 28.92 | 21.512 |
| 230.000 | 28.534 | 28.644 | 28.493 | | 28.383 | 21.235 |
| 240.000 | 28.066 | 28.176 | 28.025 | | 27.915 | 21.087 |
| 250.000 | 27.598 | 27.708 | 27.557 | | 27.509 | 21.13 |
| 260.000 | 27.131 | 27.24 | 27.089 | | 26.979 | 20.577 |
| 270.000 | 26.663 | 26.772 | 26.621 | | 26.511 | 20.172 |
| 280.000 | 26.195 | 26.305 | 26.153 | | 26.043 | 19.749 |
| 290.000 | 25.727 | 25.837 | 25.754 | | 25.644 | 19.454 |
| 300.000 | 25.259 | 25.369 | 25.217 | | 25.107 | 19.049 |
| 310.000 | 24.791 | 24.901 | 24.75 | | 24.64 | 18.725 |
| 312.983 | 24.323 | | | | | 17.391 |
| 314.483 | 24.184 | | | | | 17.396 |
| 320.000 | 24.211 | | | | | 17.47 |
| | 24.023 | | | | | 17.47 |

LONGITUDINAL SECTION ALONG MC40 - RIGHT

HORIZONTAL SCALE 1:500@A1

VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: ARIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:500@ A1 (0 5 10 15 20 25m)

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE

**CIVIL ENGINEERING PACKAGE**

**ROAD LONGITUDINAL SECTIONS SHEET 25**

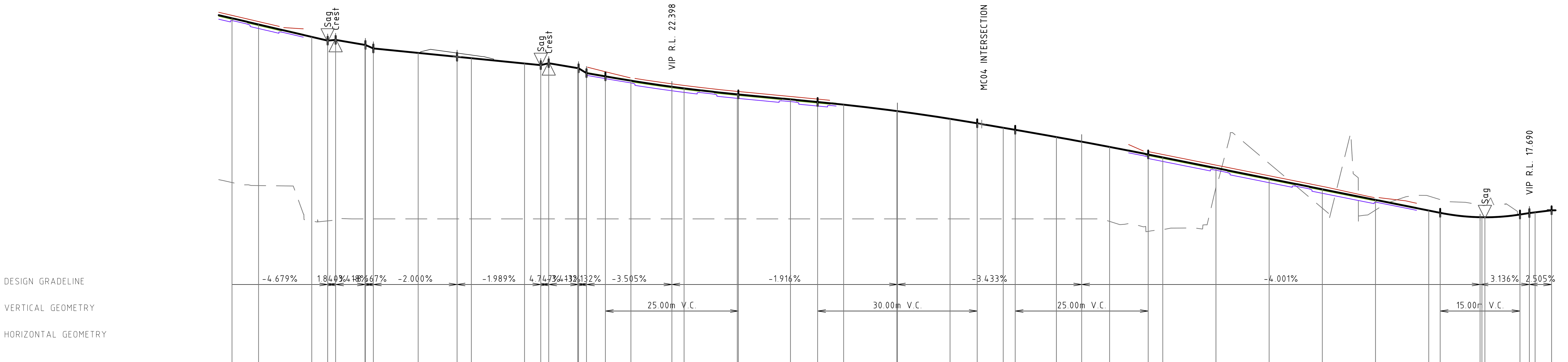
JOB NUMBER **150077-60**

DRAWING NUMBER **C04.65**

REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 10:08:07 AM By: Melrose Park Infrastructure DA - 2021/1010/drawings/civil/150077-60 CAD/01 CAD/150077-60_C04.65.dwg




| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.025 | 24.791 | 24.323 | 24.184 | 24.211 | 24.023 | 24.02 | 23.89 | 23.721 | 23.575 |
| RIGHT BDY LINE | 25.135 | 24.901 | | | | | | | | |
| RIGHT TOK | 24.984 | 24.75 | | | | | | | | |
| RIGHT LIP / PARKING | | | | | | | | | | |
| RIGHT LIP / LANE | 24.935 | 24.64 | | | | | | | | |
| EXISTING SURFACE | 18.84 | 18.725 | 17.391 | 17.396 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 |
| CHAINAGE | 295.000 | 300.000 | 310.000 | 312.983 | 314.483 | 320.000 | 320.083 | 321.583 | 330.000 | 337.316 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.522 | 23.323 | 23.262 | 23.333 | 23.147 | 23.142 | 22.96 | 22.836 | 22.675 | 22.447 |
| RIGHT BDY LINE | | | | | | | | 23.013 | | 22.557 |
| RIGHT TOK | | | | | | | | 22.863 | 22.702 | 22.406 |
| RIGHT LIP / PARKING | | | | | | | | | | |
| RIGHT LIP / LANE | | | | | | | | 22.753 | 22.592 | 22.296 |
| EXISTING SURFACE | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 |
| CHAINAGE | 340.000 | 350.000 | 353.050 | 354.550 | 360.000 | 360.150 | 361.649 | 365.203 | 370.000 | 377.703 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.387 | 22.162 | 22.158 | 21.97 | 21.872 | 21.773 | 21.531 | 21.528 | 21.239 | 21.07 |
| RIGHT BDY LINE | 22.496 | 22.272 | 22.268 | 22.08 | 21.982 | | | | | |
| RIGHT TOK | 22.345 | 22.12 | 22.117 | 21.998 | 21.831 | | | | | |
| RIGHT LIP / PARKING | | | | | | | | | | |
| RIGHT LIP / LANE | 22.235 | 22.01 | 22.007 | 21.888 | 21.721 | | | | | |
| EXISTING SURFACE | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 | 17.47 |
| CHAINAGE | 380.000 | 390.000 | 390.203 | 400.000 | 405.106 | 410.000 | 420.000 | 420.106 | 430.000 | 435.106 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.902 | 20.825 | 20.552 | 20.378 | 20.18 | 19.896 | 19.786 | 19.386 | 18.986 | 18.586 |
| RIGHT BDY LINE | | | | | | 20.005 | 19.895 | 19.495 | 19.095 | 18.695 |
| RIGHT TOK | | | | | | 19.854 | 19.744 | 19.413 | 18.944 | 18.544 |
| RIGHT LIP / PARKING | | | | | | | | | | |
| RIGHT LIP / LANE | | | | | | 19.744 | 19.634 | 19.303 | 18.834 | 18.434 |
| EXISTING SURFACE | 17.47 | 17.47 | 17.47 | 17.47 | 17.377 | 17.001 | 17.073 | 18.659 | 19.559 | 17.873 |
| CHAINAGE | 440.000 | 442.254 | 450.000 | 454.754 | 460.000 | 467.254 | 470.000 | 480.000 | 490.000 | 500.000 |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.185 | 17.785 | 17.699 | 17.533 | 17.532 | 17.531 | 17.634 | 17.69 | 17.717 | 17.794 |
| RIGHT BDY LINE | | | | | | | | | | |
| RIGHT TOK | 18.144 | | | | | | | | | |
| RIGHT LIP / PARKING | | | | | | | | | | |
| RIGHT LIP / LANE | 18.095 | | | | | | | | | |
| EXISTING SURFACE | 17.803 | 18.33 | 18.198 | 17.994 | 17.981 | 17.973 | 17.634 | 17.69 | 17.718 | 17.794 |
| CHAINAGE | 510.000 | 520.000 | 522.154 | 529.654 | 530.000 | 530.562 | 537.154 | 538.929 | 540.000 | 543.097 |

## LONGITUDINAL SECTION ALONG MC40 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500 @ A1 — 0 5 10 15 20 25m

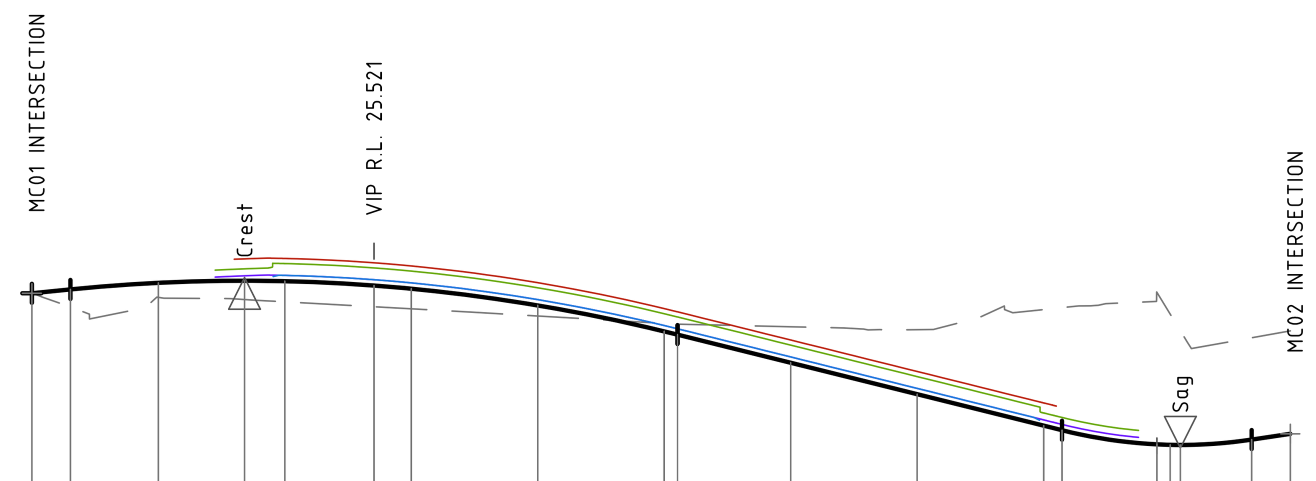
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS SHEET 26

JOB NUMBER 150077-60
DRAWING NUMBER C04.66
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




DESIGN GRADELINE — 2.000% | -4.974% | 3.000%

VERTICAL GEOMETRY — 48.00m V.C. | 15.00m V.C.

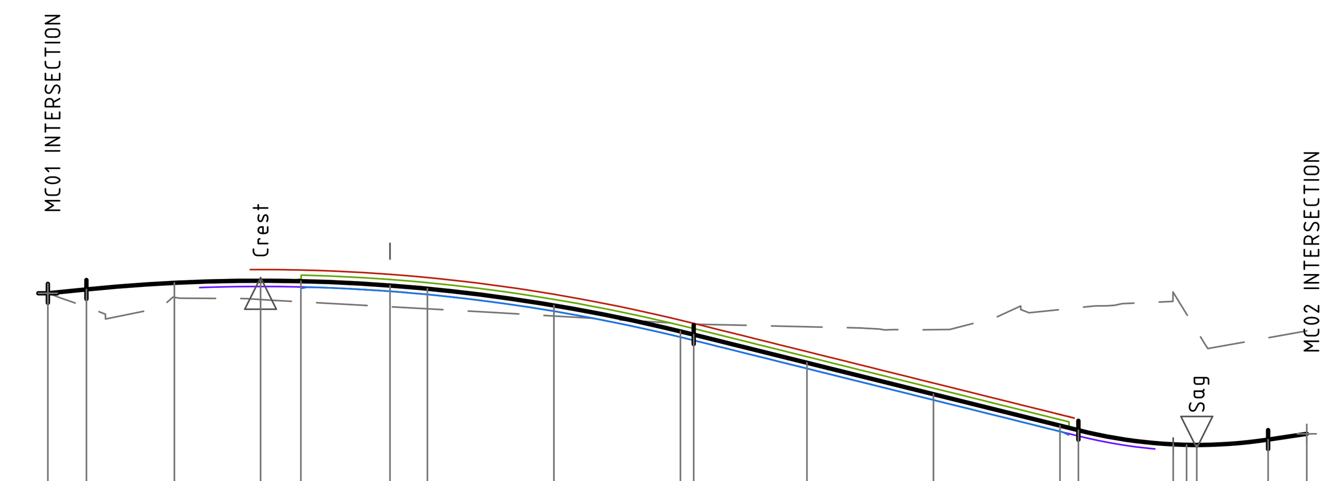
HORIZONTAL GEOMETRY

DATUM RL 15.0

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.98 | 25.041 | 25.145 | 25.178 | 25.171 | 25.102 | 25.052 | 24.788 | 24.378 | 24.327 | 23.882 | 23.384 | 22.887 | 22.815 | 22.591 | 22.584 | 22.582 | 22.667 | 22.758 |
| LEFT BDY LINE | | | | 25.524 | 25.53 | 25.461 | 25.411 | 25.147 | 24.738 | 24.686 | 24.241 | 23.744 | 23.246 | | | | | | |
| LEFT TOK | | | | 25.366 | 25.449 | 25.381 | 25.33 | 25.066 | 24.657 | 24.605 | 24.16 | 23.663 | 23.088 | 23.016 | | | | | |
| LEFT LIP / PARKING | | | | | 25.262 | 25.194 | 25.143 | 24.879 | 24.47 | 24.418 | 23.973 | 23.476 | | | | | | | |
| LEFT LIP / LANE | | | | 25.256 | 25.262 | 25.194 | 25.143 | 24.879 | 24.47 | 24.418 | 23.973 | 23.476 | 22.979 | 22.906 | | | | | |
| EXISTING SURFACE | 24.987 | 24.763 | 24.915 | 24.88 | 24.845 | 24.767 | 24.735 | 24.621 | 24.503 | 24.492 | 24.451 | 24.404 | 24.722 | 24.752 | 24.995 | 24.652 | 24.388 | 24.276 | 24.385 |
| CHAINAGE | 0.000 | 3.050 | 10.000 | 16.816 | 20.000 | 27.050 | 30.000 | 40.000 | 50.000 | 51.050 | 60.000 | 70.000 | 80.000 | 81.450 | 88.950 | 90.000 | 90.806 | 96.450 | 99.500 |

LONGITUDINAL SECTION ALONG MC50 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1




DESIGN GRADELINE — 2.000% | -4.974% | 3.000%

VERTICAL GEOMETRY — 48.00m V.C. | 15.00m V.C.

HORIZONTAL GEOMETRY

DATUM RL 15.0

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.98 | 25.041 | 25.145 | 25.178 | 25.171 | 25.102 | 25.052 | 24.788 | 24.378 | 24.327 | 23.882 | 23.384 | 22.887 | 22.815 | 22.591 | 22.584 | 22.582 | 22.667 | 22.758 |
| RIGHT BDY LINE | | | | 25.355 | 25.347 | 25.278 | 25.228 | 24.964 | 24.555 | 24.503 | 24.058 | 23.561 | 23.063 | | | | | | |
| RIGHT TOK | | | | 25.197 | 25.207 | 25.198 | 25.147 | 24.883 | 24.474 | 24.422 | 23.977 | 23.48 | 22.983 | 22.833 | | | | | |
| RIGHT LIP / PARKING | | | | | | 25.011 | 24.96 | 24.696 | 24.287 | 24.235 | 23.79 | 23.293 | 22.796 | | | | | | |
| RIGHT LIP / LANE | | | | 25.087 | 25.079 | 25.011 | 24.96 | 24.696 | 24.287 | 24.235 | 23.79 | 23.293 | 22.796 | 22.723 | | | | | |
| EXISTING SURFACE | 24.987 | 24.763 | 24.915 | 24.88 | 24.845 | 24.767 | 24.735 | 24.621 | 24.503 | 24.492 | 24.451 | 24.404 | 24.722 | 24.752 | 24.995 | 24.652 | 24.388 | 24.276 | 24.385 |
| CHAINAGE | 0.000 | 3.050 | 10.000 | 16.816 | 20.000 | 27.050 | 30.000 | 40.000 | 50.000 | 51.050 | 60.000 | 70.000 | 80.000 | 81.450 | 88.950 | 90.000 | 90.806 | 96.450 | 99.500 |

LONGITUDINAL SECTION ALONG MC50 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500 @ A1 — 0 5 10 15 20 25m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

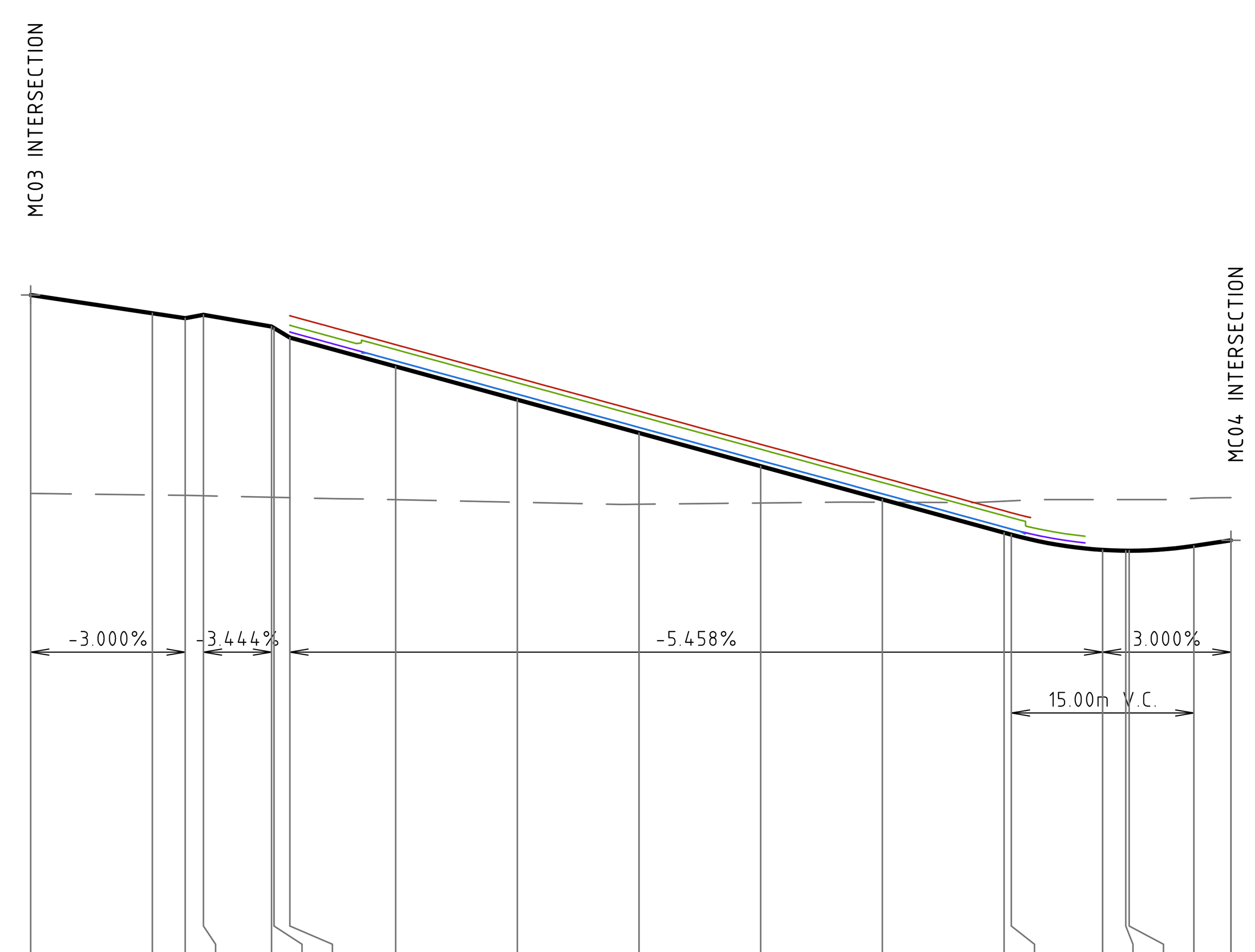
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 27

JOB NUMBER 150077-60
DRAWING NUMBER C04.67
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -




DESIGN GRADELINE

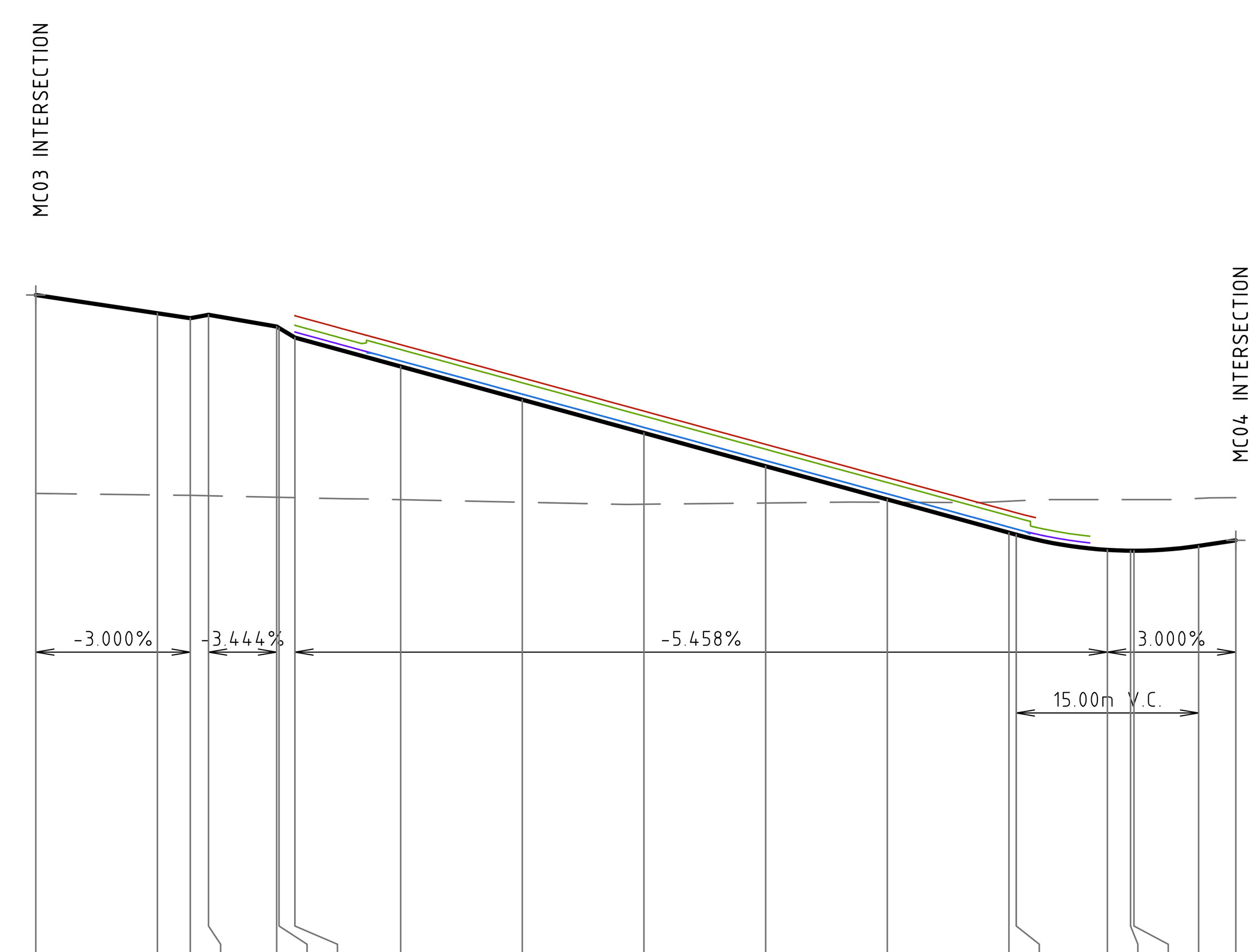
VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL 9.0

| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 19.868 | | | | | 16.608 |
| 10.000 | 19.568 | | | | | 16.582 |
| 12.700 | 19.487 | | | | | 16.575 |
| 14.200 | 19.542 | | | | | 16.569 |
| 19.800 | 19.349 | | | | | 16.544 |
| 20.000 | 19.325 | | | | | 16.543 |
| 21.300 | 19.167 | 19.526 | 19.369 | | 19.259 | 16.537 |
| 30.000 | 18.692 | 19.051 | 18.971 | 18.784 | 18.784 | 16.505 |
| 40.000 | 18.146 | 18.506 | 18.425 | 18.238 | 18.238 | 16.463 |
| 50.000 | 17.6 | 17.96 | 17.879 | 17.692 | 17.692 | 16.429 |
| 60.000 | 17.055 | 17.414 | 17.333 | 17.146 | 17.146 | 16.45 |
| 70.000 | 16.509 | 16.868 | 16.787 | 16.6 | 16.6 | 16.462 |
| 80.000 | 15.963 | 16.322 | 16.241 | 16.054 | 16.054 | 16.479 |
| 80.599 | 15.93 | 16.29 | 16.209 | 16.022 | 16.022 | 16.485 |
| 88.099 | 15.679 | | | | | 16.506 |
| 90.000 | 15.666 | | | | | 16.506 |
| 90.279 | 15.666 | | | | | 16.506 |
| 95.599 | 15.746 | | | | | 16.526 |
| 98.650 | 15.837 | | | | | 16.537 |

LONGITUDINAL SECTION ALONG MC51 - LEFT
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1





DESIGN GRADELINE

VERTICAL GEOMETRY

HORIZONTAL GEOMETRY

DATUM RL 9.0

| CHAINAGE | FINISHED SURFACE | LEFT BDY LINE | LEFT TOK | LEFT LIP / PARKING | LEFT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 19.868 | | | | | 16.608 |
| 10.000 | 19.568 | | | | | 16.582 |
| 12.700 | 19.487 | | | | | 16.575 |
| 14.200 | 19.542 | | | | | 16.569 |
| 19.800 | 19.349 | | | | | 16.544 |
| 20.000 | 19.325 | | | | | 16.543 |
| 21.300 | 19.167 | 19.526 | 19.369 | | 19.259 | 16.537 |
| 30.000 | 18.692 | 19.051 | 18.971 | 18.784 | 18.784 | 16.505 |
| 40.000 | 18.146 | 18.506 | 18.425 | 18.238 | 18.238 | 16.463 |
| 50.000 | 17.6 | 17.96 | 17.879 | 17.692 | 17.692 | 16.429 |
| 60.000 | 17.055 | 17.414 | 17.333 | 17.146 | 17.146 | 16.45 |
| 70.000 | 16.509 | 16.868 | 16.787 | 16.6 | 16.6 | 16.462 |
| 80.000 | 15.963 | 16.322 | 16.241 | 16.054 | 16.054 | 16.479 |
| 80.599 | 15.93 | 16.29 | 16.209 | 16.022 | 16.022 | 16.485 |
| 88.099 | 15.679 | | | | | 16.506 |
| 90.000 | 15.666 | | | | | 16.506 |
| 90.279 | 15.666 | | | | | 16.506 |
| 95.599 | 15.746 | | | | | 16.526 |
| 98.650 | 15.837 | | | | | 16.537 |

LONGITUDINAL SECTION ALONG MC51 - LEFT
HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1


**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:500@ A1 0 5 10 15 20 25m

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

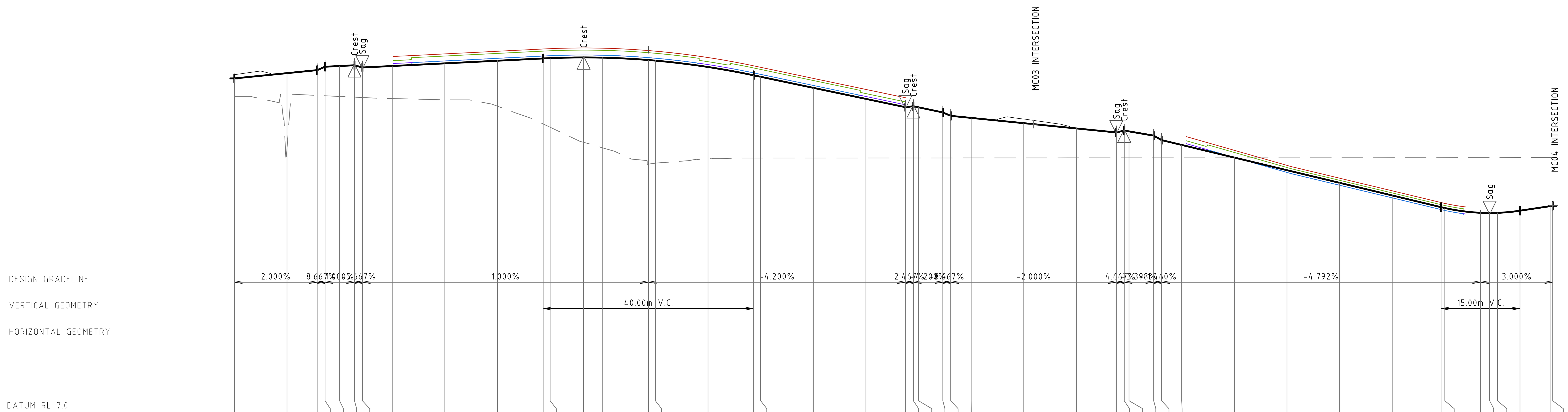
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

ROAD LONGITUDINAL SECTIONS
SHEET 28

JOB NUMBER 150077-60
DRAWING NUMBER C04.68
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.736 | 19.936 | 20.051 | 20.181 | 20.208 | 20.237 | 20.152 | 20.208 | 20.308 | 20.408 | 20.495 | 20.507 |
| LEFT BDY LINE | | | | | | | | | 20.668 | 20.768 | 20.854 | 20.866 |
| LEFT TOK | | | | | | | | | 20.587 | 20.687 | 20.774 | 20.786 |
| LEFT LIP / PARKING | | | | | | | | | 20.4 | 20.5 | 20.587 | 20.599 |
| LEFT LIP / LANE | | | | | | | | | 20.4 | 20.5 | 20.587 | 20.599 |
| EXISTING SURFACE | 19.049 | 17.055 | 19.092 | 19.078 | 19.052 | 19.026 | 19.012 | 18.972 | 18.924 | 18.682 | 18.009 | 17.884 |
| CHAINAGE | 0.000 | 10.000 | 15.731 | 17.231 | 20.000 | 22.831 | 24.331 | 30.000 | 40.000 | 50.000 | 58.673 | 60.000 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.534 | 20.525 | 20.435 | 20.413 | 20.17 | 19.855 | 19.799 | 19.379 | 18.959 | 18.644 | 18.681 | 18.639 |
| LEFT BDY LINE | 20.893 | 20.884 | 20.794 | 20.772 | 20.53 | 20.214 | 20.159 | 19.739 | 19.319 | | | |
| LEFT TOK | 20.812 | 20.803 | 20.713 | 20.691 | 20.372 | 20.134 | 20.078 | 19.658 | 19.161 | | | |
| LEFT LIP / PARKING | 20.625 | 20.616 | 20.526 | 20.504 | | 19.947 | 19.891 | 19.471 | | | | |
| LEFT LIP / LANE | 20.625 | 20.616 | 20.526 | 20.504 | 20.262 | 19.947 | 19.891 | 19.471 | 19.051 | | | |
| EXISTING SURFACE | 17.31 | 17.098 | 16.483 | 16.52 | 16.696 | 16.715 | 16.715 | 16.716 | 16.717 | 16.717 | 16.717 | 16.717 |
| CHAINAGE | 66.365 | 70.000 | 78.673 | 80.000 | 90.000 | 98.673 | 100.000 | 110.000 | 120.000 | 127.514 | 129.014 | 130.000 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.446 | 18.316 | 18.238 | 18.038 | 17.838 | 17.686 | 17.756 | 17.725 | 17.566 | 17.394 | 17.211 | 16.732 |
| LEFT BDY LINE | | | | | | | | | | | | 17.007 |
| LEFT TOK | | | | | | | | | | | | 16.926 |
| LEFT LIP / PARKING | | | | | | | | | | | | 16.739 |
| LEFT LIP / LANE | | | | | | | | | | | | 16.739 |
| EXISTING SURFACE | 16.718 | 16.718 | 16.718 | 16.719 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 | 16.72 |
| CHAINAGE | 134.614 | 136.114 | 140.000 | 150.000 | 160.000 | 167.581 | 169.081 | 170.000 | 174.681 | 176.181 | 180.000 | 190.000 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.253 | 15.773 | 15.294 | 14.85 | 14.816 | 14.636 | 14.628 | 14.634 | 14.715 | 14.887 | 14.902 |
| LEFT BDY LINE | 16.436 | 15.95 | 15.47 | 15.026 | 14.993 | | | | | | |
| LEFT TOK | 16.356 | 15.869 | 15.39 | 14.945 | 14.912 | | | | | | |
| LEFT LIP / PARKING | 16.169 | 15.682 | 15.203 | 14.758 | 14.725 | | | | | | |
| LEFT LIP / LANE | 16.169 | 15.682 | 15.203 | 14.758 | 14.725 | | | | | | |
| EXISTING SURFACE | 16.721 | 16.723 | 16.725 | 16.727 | 16.727 | 16.728 | 16.728 | 16.728 | 16.729 | 16.729 | 16.729 |
| CHAINAGE | 200.000 | 210.000 | 220.000 | 229.280 | 230.000 | 236.780 | 238.505 | 240.000 | 244.280 | 250.000 | 250.498 |

## LONGITUDINAL SECTION ALONG MC60 - LEFT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SEKISUI HOUSE
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ARCHITECT

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500 @ A1 — 0 5 10 15 20 25m

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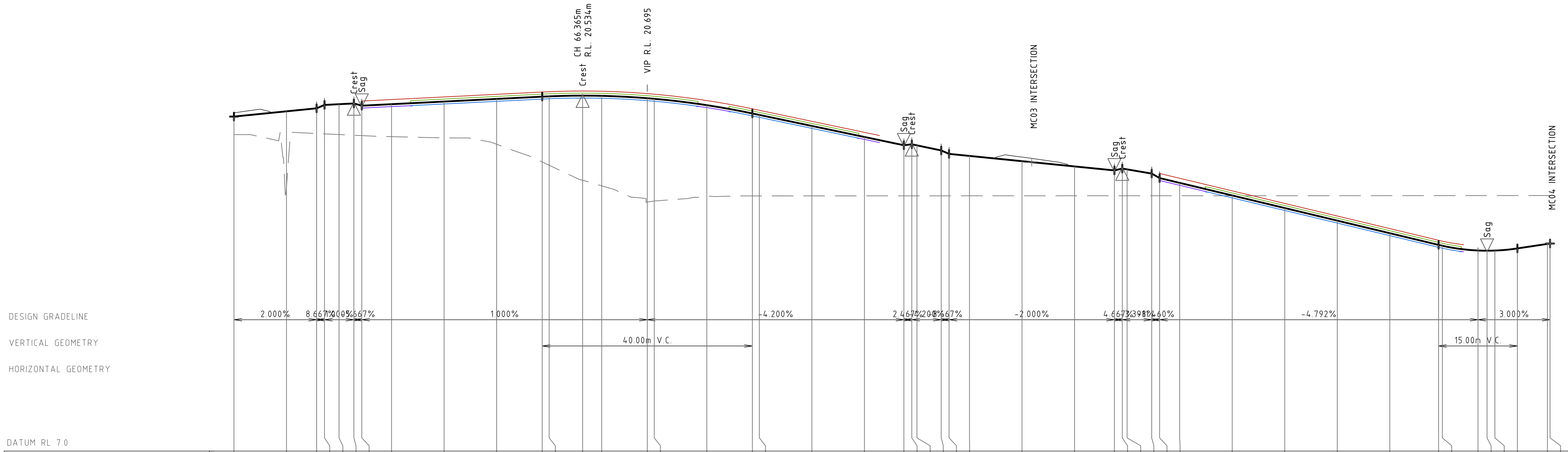
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS SHEET 29

JOB NUMBER 150077-60
DRAWING NUMBER C04.69
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg




| CHAINAGE | FINISHED SURFACE | RIGHT BDY LINE | RIGHT TOK | RIGHT LIP / PARKING | RIGHT LIP / LANE | EXISTING SURFACE |
|---|---|---|---|---|---|---|
| 0.000 | 19.736 | | | | | 19.049 |
| 10.000 | 19.936 | | | | | 17.055 |
| 15.731 | 20.051 | | | | | 19.092 |
| 17.231 | 20.181 | | | | | 19.078 |
| 20.000 | 20.208 | | | | | 19.052 |
| 22.831 | 20.237 | | | | | 19.026 |
| 24.331 | 20.152 | | | | | 19.012 |
| 30.000 | 20.208 | 20.385 | 20.227 | | 20.117 | 18.972 |
| 40.000 | 20.308 | 20.485 | 20.404 | 20.217 | 20.217 | 18.924 |
| 50.000 | 20.408 | 20.585 | 20.504 | 20.317 | 20.317 | 18.682 |
| 58.673 | 20.495 | 20.671 | 20.591 | 20.404 | 20.404 | 18.009 |
| 60.000 | 20.507 | 20.683 | 20.603 | 20.416 | 20.416 | 17.884 |
| 66.365 | 20.534 | 20.71 | 20.629 | 20.442 | 20.442 | 17.31 |
| 70.000 | 20.525 | 20.701 | 20.62 | 20.433 | 20.433 | 17.098 |
| 78.673 | 20.435 | 20.611 | 20.53 | 20.343 | 20.343 | 16.483 |
| 80.000 | 20.413 | 20.589 | 20.508 | 20.321 | 20.321 | 16.52 |
| 90.000 | 20.17 | 20.347 | 20.189 | | 20.079 | 16.696 |
| 98.673 | 19.855 | 20.031 | 19.951 | 19.764 | 19.764 | 16.715 |
| 100.000 | 19.799 | 19.976 | 19.895 | 19.708 | 19.708 | 16.715 |
| 110.000 | 19.379 | 19.556 | 19.475 | 19.288 | 19.288 | 16.716 |
| 120.000 | 18.959 | 19.136 | 18.978 | | 18.868 | 16.717 |
| 127.514 | 18.644 | | | | | 16.717 |
| 129.014 | 18.681 | | | | | 16.717 |
| 130.000 | 18.639 | | | | | 16.717 |
| 134.614 | 18.446 | | | | | 16.718 |
| 136.114 | 18.316 | | | | | 16.718 |
| 140.000 | 18.238 | | | | | 16.718 |
| 150.000 | 18.038 | | | | | 16.719 |
| 160.000 | 17.838 | | | | | 16.72 |
| 167.581 | 17.686 | | | | | 16.72 |
| 169.081 | 17.756 | | | | | 16.72 |
| 170.000 | 17.725 | | | | | 16.72 |
| 174.681 | 17.566 | | | | | 16.72 |
| 176.181 | 17.394 | 17.57 | 17.413 | | 17.303 | 16.72 |
| 180.000 | 17.211 | 17.387 | 17.229 | | 17.119 | 16.72 |
| 190.000 | 16.732 | 16.908 | 16.827 | 16.64 | 16.64 | 16.72 |
| 200.000 | 16.253 | 16.429 | 16.348 | 16.161 | 16.161 | 16.721 |
| 210.000 | 15.773 | 15.95 | 15.869 | 15.682 | 15.682 | 16.723 |
| 220.000 | 15.294 | 15.47 | 15.39 | 15.203 | 15.203 | 16.725 |
| 229.280 | 14.85 | 15.026 | 14.945 | 14.758 | 14.758 | 16.727 |
| 230.000 | 14.816 | 14.993 | 14.912 | 14.725 | 14.725 | 16.727 |
| 236.780 | 14.636 | | | | | 16.728 |
| 238.505 | 14.628 | | | | | 16.728 |
| 240.000 | 14.634 | | | | | 16.728 |
| 244.280 | 14.715 | | | | | 16.729 |
| 250.000 | 14.887 | | | | | 16.729 |
| 250.498 | 14.902 | | | | | 16.729 |

## LONGITUDINAL SECTION ALONG MC60 - RIGHT

HORIZONTAL SCALE 1:500@A1
VERTICAL SCALE 1:100@A1

DRAWN: B.MAZZA   DESIGNED: A.RIVETT   JOB MANAGER: P.SUTTON   VERIFIER: -

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m
SCALE 1:500 @ A1 — 0 5 10 15 20 25m

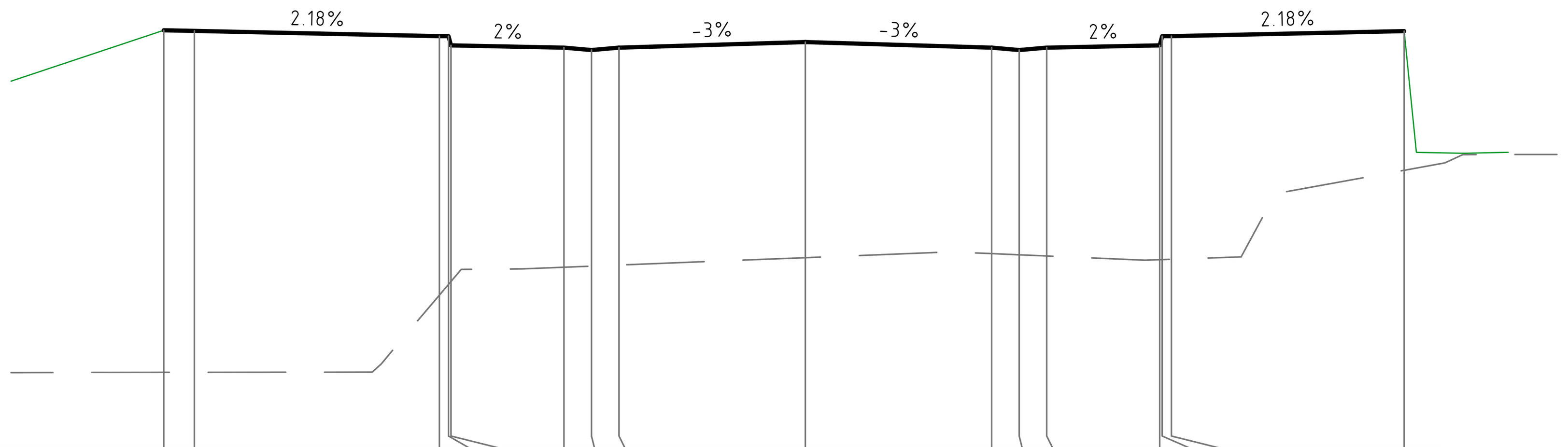
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
ROAD LONGITUDINAL SECTIONS
SHEET 30

JOB NUMBER 150077-60
DRAWING NUMBER C04.70
REVISION 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.41.dwg

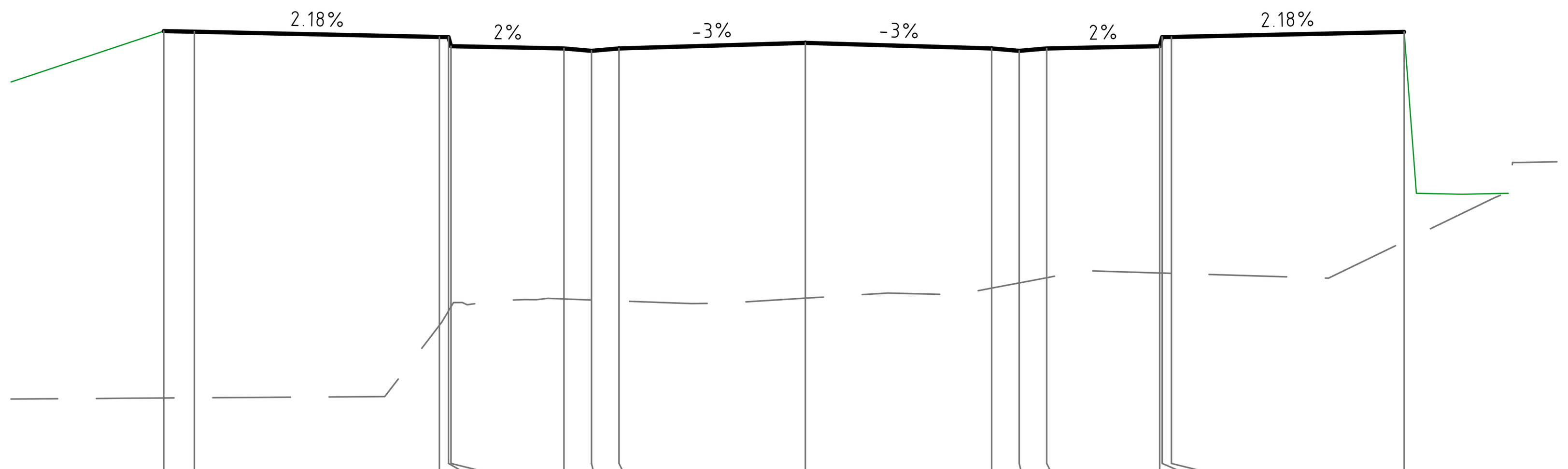



Centreline Data
X = 321086.547
Y = 6257173.324
Z = 32.651

DATUM RL 26.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.844 | 32.834 | 32.747 | 32.747 | 32.597 | 32.560 | 32.520 | 32.560 | 32.651 | 32.560 | 32.520 | 32.560 | 32.597 | 32.747 | 32.747 | 32.830 |
| EXISTING SURFACE | 27.243 | 27.244 | 28.507 | 28.684 | 28.731 | 28.964 | 28.982 | 29.000 | 29.121 | 29.187 | 29.168 | 29.148 | 29.088 | 29.089 | 29.094 | 30.551 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 9.800 |

CHAINAGE 50.000

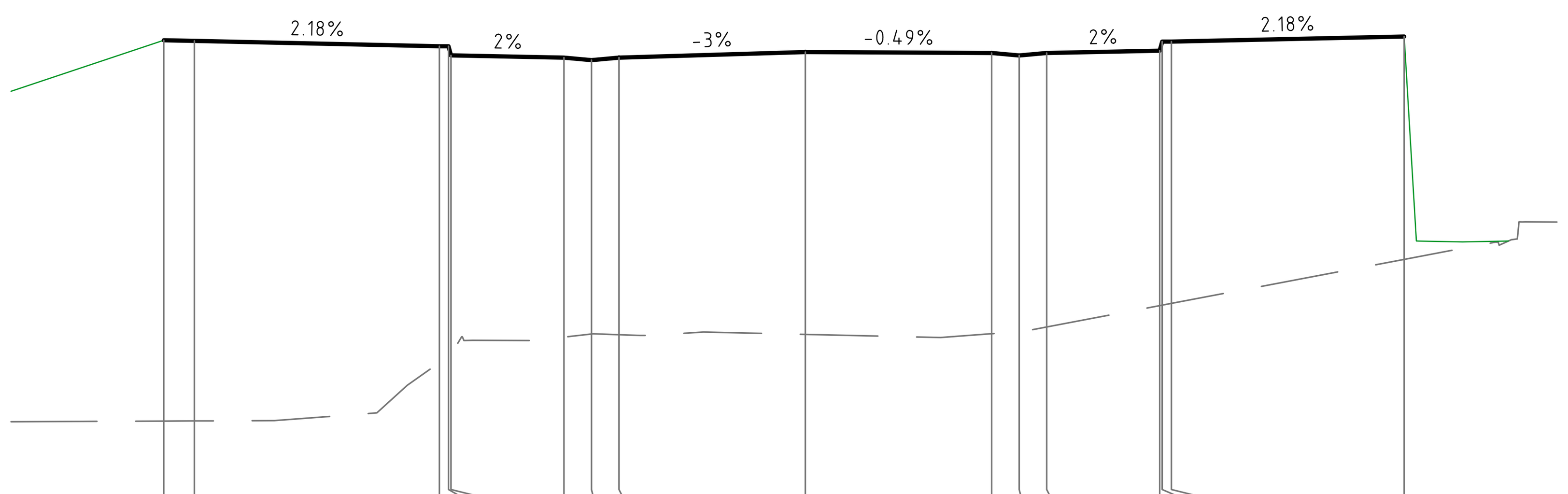



Centreline Data
X = 321096.120
Y = 6257176.215
Z = 33.090

DATUM RL 26.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 33.283 | 33.273 | 33.185 | 33.185 | 33.035 | 32.998 | 32.958 | 32.998 | 33.090 | 32.998 | 32.958 | 32.998 | 33.035 | 33.185 | 33.185 | 33.268 |
| EXISTING SURFACE | 27.272 | 27.276 | 28.462 | 28.699 | 28.765 | 28.895 | 28.878 | 28.862 | 28.907 | 29.072 | 29.157 | 29.242 | 29.320 | 29.319 | 29.314 | 29.836 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 9.800 |

CHAINAGE 40.000

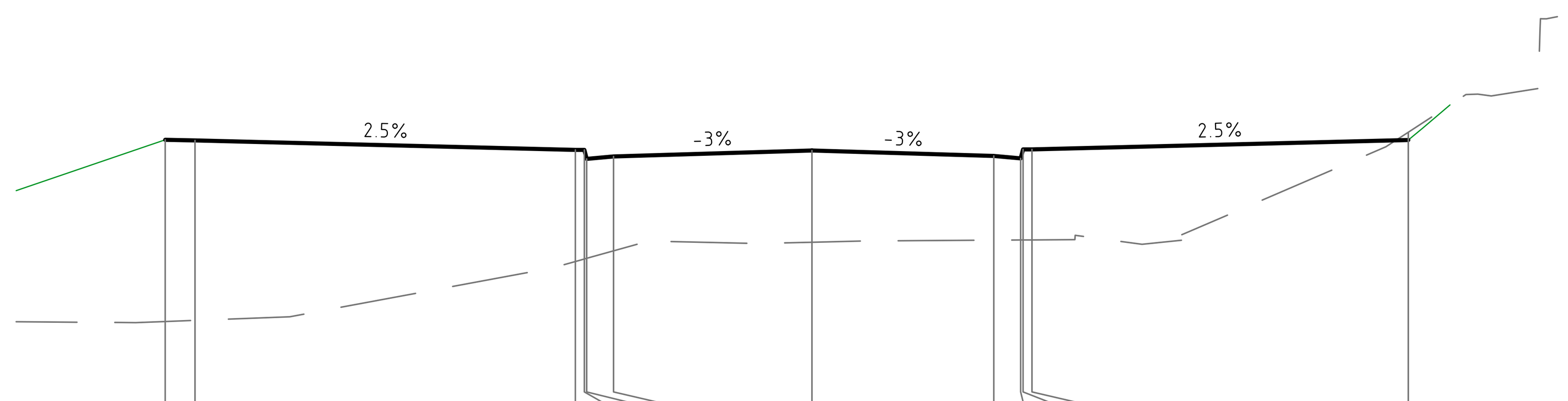



Centreline Data
X = 321105.694
Y = 6257179.105
Z = 33.359

DATUM RL 26.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 33.552 | 33.542 | 33.454 | 33.454 | 33.304 | 33.267 | 33.227 | 33.267 | 33.359 | 33.344 | 33.304 | 33.344 | 33.381 | 33.531 | 33.531 | 33.614 |
| EXISTING SURFACE | 27.320 | 27.322 | 28.276 | 28.382 | 28.410 | 28.693 | 28.745 | 28.733 | 28.738 | 28.749 | 28.783 | 28.860 | 29.210 | 29.217 | 29.245 | 29.966 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 9.800 |

CHAINAGE 30.000

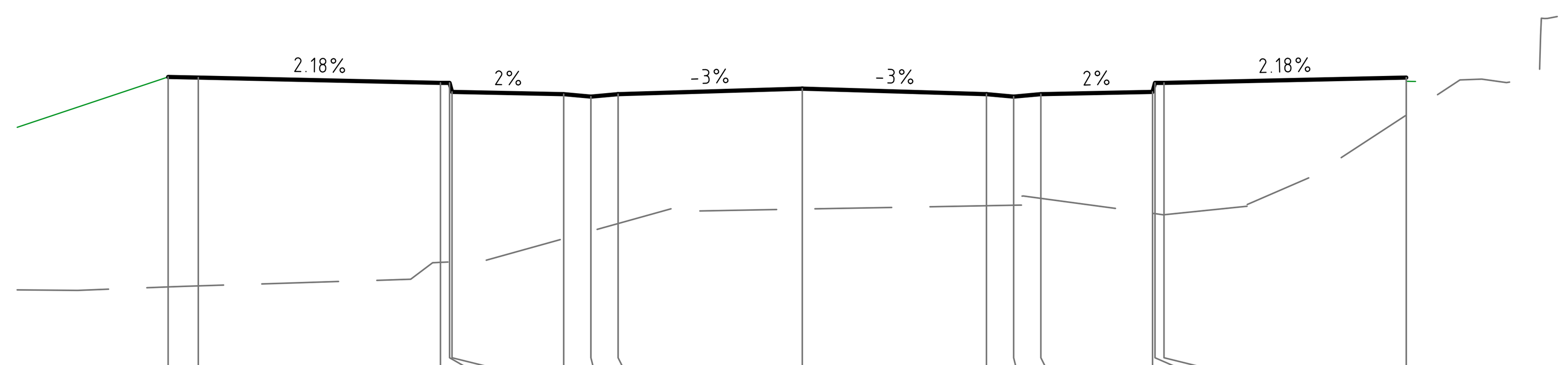



Centreline Data
X = 321059.797
Y = 6257165.248
Z = 31.254

DATUM RL 27.0

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.434 | 31.424 | 31.264 | 31.264 | 31.114 | 31.154 | 31.254 | 31.162 | 31.122 | 31.272 | 31.272 | 31.430 |
| EXISTING SURFACE | 28.382 | 28.401 | 29.390 | 29.432 | 29.443 | 29.569 | 29.713 | 29.749 | 29.752 | 29.752 | 29.753 | 31.561 |
| OFFSET | -10.845 | -10.345 | -3.967 | -3.817 | -3.777 | -3.327 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 |

CHAINAGE 77.943

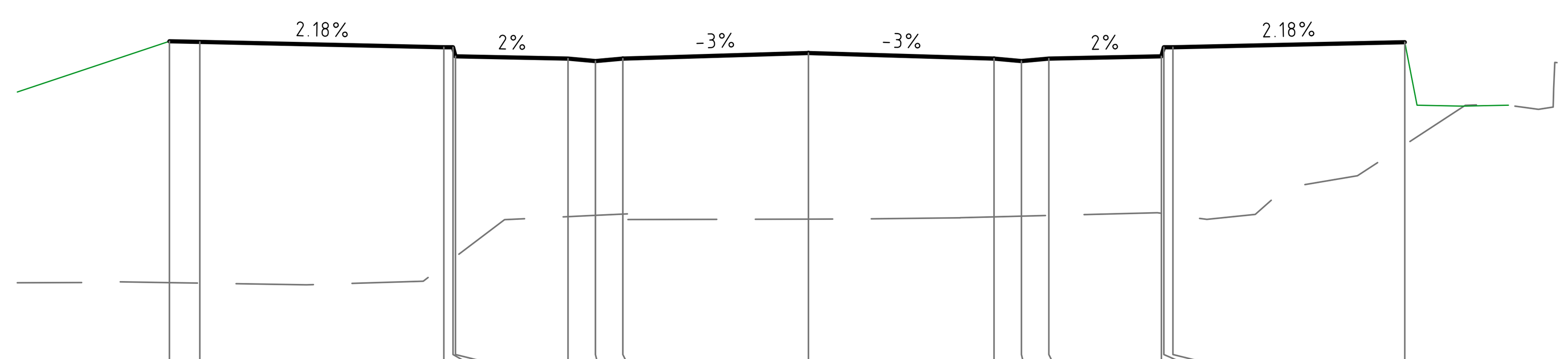



Centreline Data
X = 321067.401
Y = 6257167.544
Z = 31.651

DATUM RL 27.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.844 | 31.834 | 31.747 | 31.747 | 31.597 | 31.560 | 31.520 | 31.560 | 31.651 | 31.560 | 31.520 | 31.560 | 31.597 | 31.747 | 31.747 | 31.834 |
| EXISTING SURFACE | 28.371 | 28.389 | 28.778 | 28.785 | 28.786 | 29.170 | 29.295 | 29.420 | 29.659 | 29.715 | 29.723 | 29.836 | 29.589 | 29.583 | 29.565 | 31.213 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 |

CHAINAGE 70.000




Centreline Data
X = 321076.974
Y = 6257170.434
Z = 32.151

DATUM RL 27.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.344 | 32.334 | 32.247 | 32.247 | 32.097 | 32.060 | 32.020 | 32.060 | 32.151 | 32.060 | 32.020 | 32.060 | 32.097 | 32.247 | 32.247 | 32.330 |
| EXISTING SURFACE | 28.380 | 28.372 | 28.661 | 28.774 | 28.805 | 29.464 | 29.485 | 29.506 | 29.423 | 29.461 | 29.472 | 29.483 | 29.519 | 29.514 | 29.494 | 30.644 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 9.800 |

CHAINAGE 60.000

MC01

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |
| | | | | | |
| | | | | | |
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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

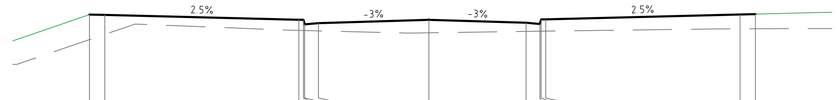
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

CROSS SECTIONS SHEET 01

JOB NUMBER 150077-60
DRAWING NUMBER C04.81
REVISION 03
DRAWING SHEET SIZE = A1

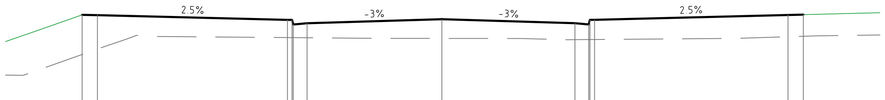
Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg




Centreline Data
X = 321044.702
Y = 6257140.199
Z = 29.749

| DATUM RL 27.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.920 | 29.910 | | | | 29.751 | 29.751 | 29.601 | 29.641 | | 29.749 | | | 29.654 | 29.614 | 29.764 | 29.764 | | | 29.923 | 29.935 | | |
| EXISTING SURFACE | 29.104 | 29.275 | | | | 29.404 | 29.400 | 29.399 | 29.388 | | 29.326 | | | 29.372 | 29.378 | 29.379 | 29.381 | | | 29.456 | 29.457 | | |
| OFFSET | -11.080 | -10.580 | | | | -4.244 | -4.094 | -4.054 | -3.604 | | 0.000 | | | 3.175 | 3.625 | 3.665 | 3.815 | | | 10.161 | 10.661 | | |

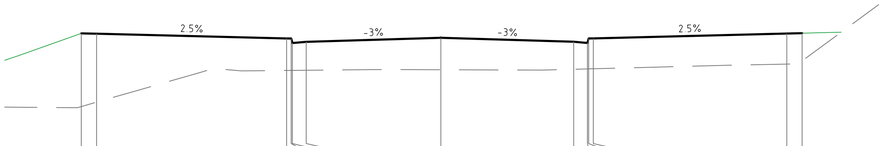
CHAINAGE 110.000




Centreline Data
X = 321045.063
Y = 6257150.105
Z = 30.159

| DATUM RL 27.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.302 | 30.292 | | | | 30.137 | 30.137 | 29.987 | 30.027 | | 30.159 | | | 30.029 | 29.989 | 30.139 | 30.139 | | | 30.297 | 30.309 | | |
| EXISTING SURFACE | 29.009 | 29.186 | | | | 29.560 | 29.558 | 29.558 | 29.554 | | 29.532 | | | 29.492 | 29.495 | 29.495 | 29.497 | | | 29.587 | 29.603 | | |
| OFFSET | -11.744 | -11.244 | | | | -5.041 | -4.891 | -4.851 | -4.401 | | 0.000 | | | 4.345 | 4.795 | 4.835 | 4.985 | | | 11.302 | 11.802 | | |

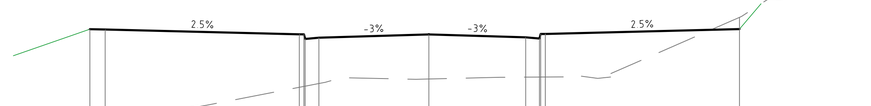
CHAINAGE 100.000




Centreline Data
X = 321049.773
Y = 6257158.827
Z = 30.651

| DATUM RL 27.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.794 | 30.784 | | | | 30.629 | 30.629 | 30.479 | 30.519 | | 30.651 | | | 30.521 | 30.481 | 30.631 | 30.631 | | | 30.789 | 30.801 | | |
| EXISTING SURFACE | 28.405 | 28.552 | | | | 29.584 | 29.585 | 29.586 | 29.590 | | 29.608 | | | 29.623 | 29.634 | 29.636 | 29.639 | | | 29.792 | 29.801 | | |
| OFFSET | -11.740 | -11.240 | | | | -5.036 | -4.886 | -4.846 | -4.396 | | 0.000 | | | 4.336 | 4.786 | 4.826 | 4.976 | | | 11.294 | 11.794 | | |

CHAINAGE 90.000




Centreline Data
X = 321057.858
Y = 6257164.561
Z = 31.151

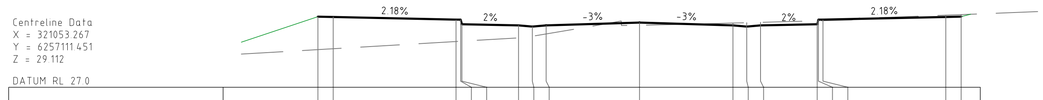
| DATUM RL 27.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.322 | 31.312 | | | | 31.153 | 31.153 | 31.003 | 31.043 | | 31.151 | | | 31.056 | 31.016 | 31.166 | 31.166 | | | 31.325 | | | |
| EXISTING SURFACE | 28.375 | 28.394 | | | | 29.425 | 29.453 | 29.461 | 29.548 | | 29.695 | | | 29.756 | 29.759 | 29.760 | 29.761 | | | 31.708 | | | |
| OFFSET | -11.067 | -10.567 | | | | -4.229 | -4.079 | -4.039 | -3.589 | | 0.000 | | | 3.161 | 3.611 | 3.651 | 3.801 | | | 10.142 | | | |

CHAINAGE 80.000

Centreline Data
X = 321056.157
Y = 6257101.878
Z = 29.012

| DATUM RL 28.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.205 | 29.195 | | | | 29.108 | 29.108 | 28.958 | 28.921 | | 28.921 | | | 29.012 | | | | 28.921 | 28.881 | 28.921 | | 28.958 | 29.108 | 29.108 | | | 29.195 | 29.206 |
| EXISTING SURFACE | 28.721 | 28.753 | | | | 29.004 | 29.013 | 29.016 | 29.103 | 29.116 | 29.129 | | | 29.192 | | | | 29.214 | 29.217 | 29.220 | | 29.233 | 29.233 | 29.234 | | | 29.284 | 29.291 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

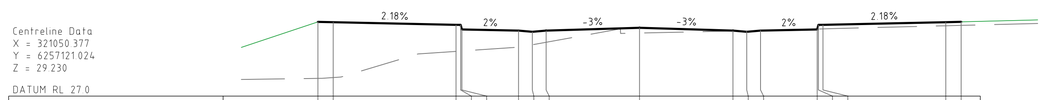
CHAINAGE 150.000




Centreline Data
X = 321053.267
Y = 6257111.451
Z = 29.112

| DATUM RL 27.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.305 | 29.295 | | | | 29.208 | 29.208 | 29.058 | 29.021 | | 29.021 | | | 29.112 | | | | 29.021 | 28.981 | 29.021 | | 29.058 | 29.208 | 29.208 | | | 29.295 | 29.306 |
| EXISTING SURFACE | 28.230 | 28.259 | | | | 28.493 | 28.502 | 28.505 | 28.613 | 28.666 | 28.741 | | | 29.028 | | | | 29.096 | 29.108 | 29.120 | | 29.169 | 29.170 | 29.174 | | | 29.353 | 29.372 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

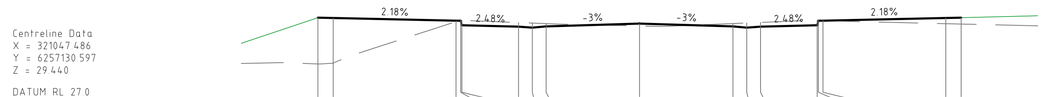
CHAINAGE 140.000




Centreline Data
X = 321050.377
Y = 6257121.024
Z = 29.230

| DATUM RL 27.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.423 | 29.413 | | | | 29.326 | 29.326 | 29.176 | 29.139 | | 29.139 | | | 29.230 | | | | 29.139 | 29.099 | 29.139 | | 29.176 | 29.326 | 29.326 | | | 29.413 | 29.424 |
| EXISTING SURFACE | 27.578 | 27.605 | | | | 28.460 | 28.470 | 28.472 | 28.597 | 28.675 | 28.757 | | | 29.058 | | | | 29.125 | 29.135 | 29.144 | | 29.189 | 29.190 | 29.194 | | | 29.296 | 29.308 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

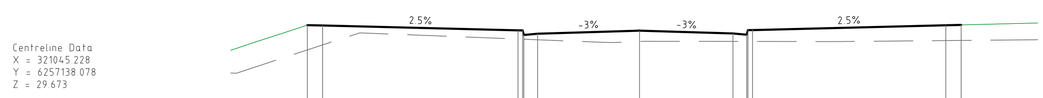
CHAINAGE 130.000




Centreline Data
X = 321047.486
Y = 6257130.597
Z = 29.440

| DATUM RL 27.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.633 | 29.623 | | | | 29.535 | 29.535 | 29.385 | 29.339 | | 29.348 | | | 29.440 | | | | 29.348 | 29.308 | 29.339 | | 29.385 | 29.535 | 29.535 | | | 29.623 | 29.633 |
| EXISTING SURFACE | 28.122 | 28.152 | | | | 29.504 | 29.547 | 29.546 | 29.474 | 29.457 | 29.439 | | | 29.362 | | | | 29.441 | 29.460 | 29.478 | | 29.550 | 29.549 | 29.546 | | | 29.437 | 29.425 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 120.000




Centreline Data
X = 321045.228
Y = 6257138.078
Z = 29.673

| DATUM RL 27.0 | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.853 | 29.843 | | | | 29.683 | 29.683 | 29.533 | 29.573 | | 29.673 | | | 29.582 | 29.542 | 29.692 | 29.692 | | | 29.849 | 29.862 | | |
| EXISTING SURFACE | 29.046 | 29.210 | | | | 29.401 | 29.396 | 29.394 | 29.377 | | 29.320 | | | 29.323 | 29.322 | 29.322 | 29.322 | | | 29.350 | 29.355 | | |
| OFFSET | -10.845 | -10.345 | | | | -3.967 | -3.817 | -3.777 | -3.327 | | 0.000 | | | 3.050 | 3.500 | 3.540 | 3.690 | | | 10.000 | 10.500 | | |

CHAINAGE 112.186

MC01

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C04.82
REVISION 03
DRAWING SHEET SIZE = A1

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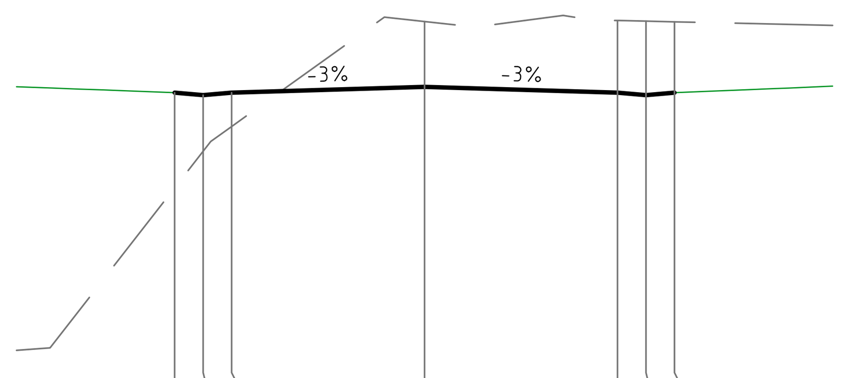
Centreline Data
X = 321064.828
Y = 6257073.158
Z = 28.712

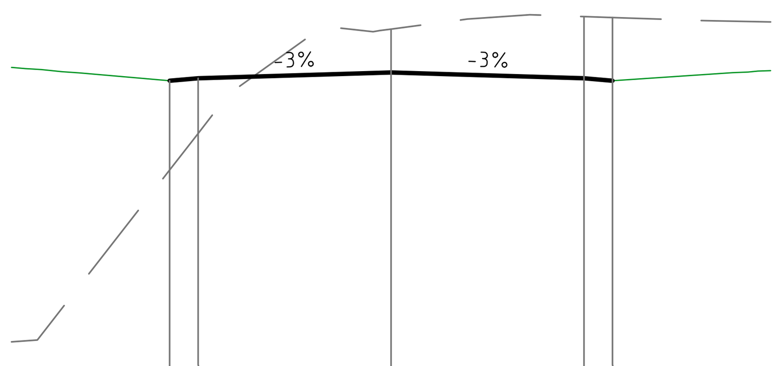



DATUM RL 24.0

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.621 | 28.581 | 28.621 | 28.712 | 28.621 | 28.581 | 28.621 |
| EXISTING SURFACE | 27.118 | 27.695 | 28.085 | 29.743 | 29.759 | 29.749 | 29.738 |
| OFFSET | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 |

CHAINAGE 180.000

Centreline Data
X = 321061.938
Y = 6257082.731
Z = 28.812

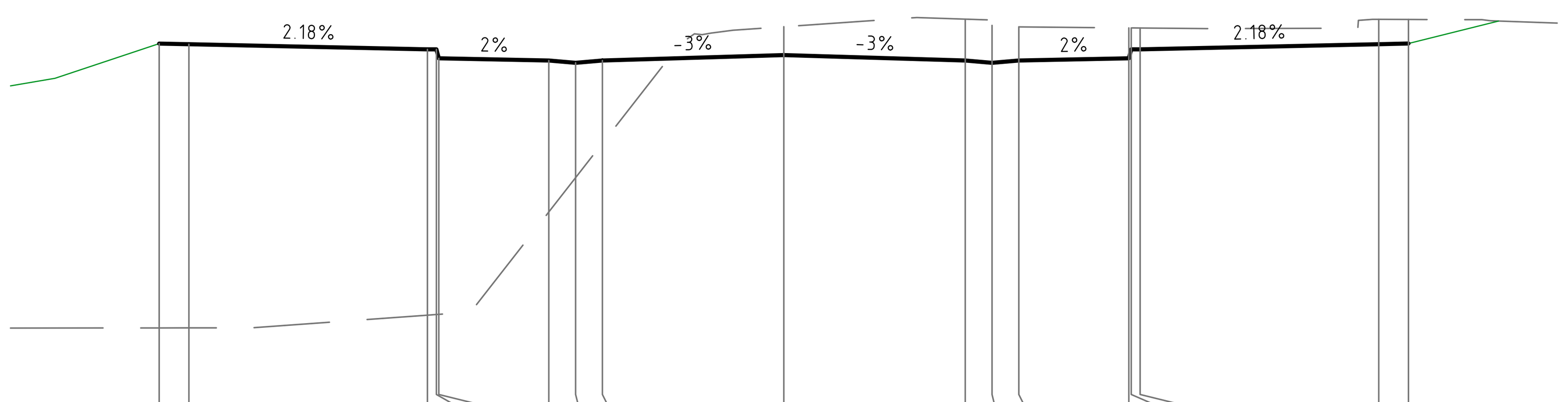



DATUM RL 24.0

| | | | | | |
|---|---|---|---|---|---|
| FINISHED SURFACE | 28.681 | 28.721 | 28.812 | 28.721 | 28.681 |
| EXISTING SURFACE | 27.272 | 27.849 | 29.496 | 29.695 | 29.679 |
| OFFSET | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 |

CHAINAGE 170.000

Centreline Data
X = 321059.048
Y = 6257092.304
Z = 28.912

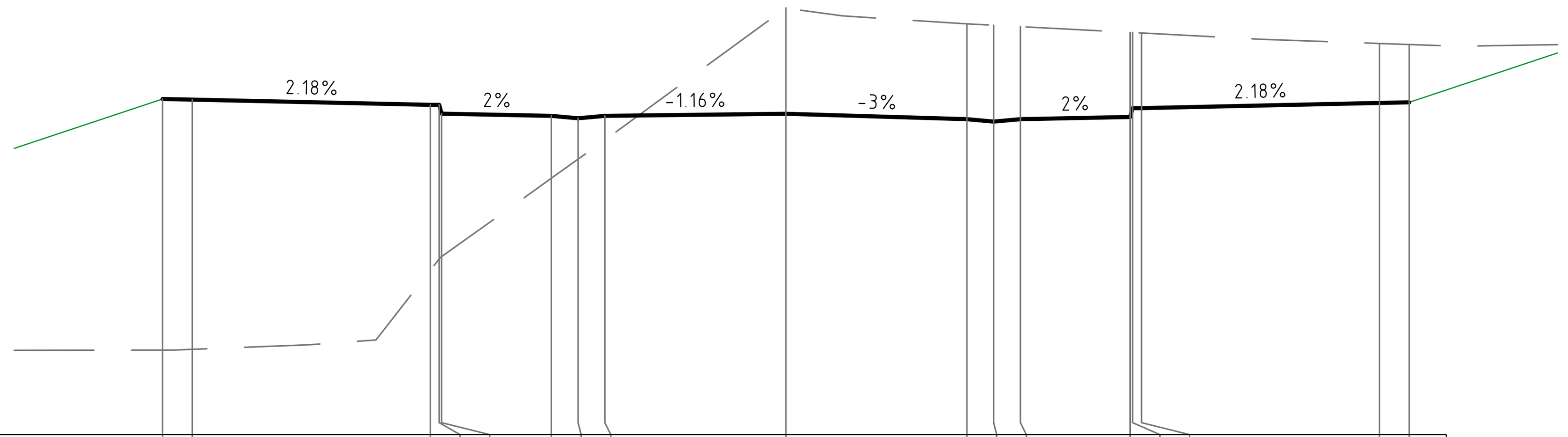



DATUM RL 23.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.105 | 29.095 | 29.008 | 29.008 | 28.858 | 28.821 | 28.781 | 28.821 | 28.912 | 28.821 | 28.781 | 28.821 | 28.858 | 29.008 | 29.008 | 29.095 | 29.106 |
| EXISTING SURFACE | 24.320 | 24.320 | 24.535 | 24.546 | 24.549 | 26.271 | 26.848 | 27.425 | 29.389 | 29.516 | 29.411 | 29.385 | 29.368 | 29.368 | 29.367 | 29.512 | 29.511 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 160.000

Centreline Data
X = 321073.499
Y = 6257044.438
Z = 28.412

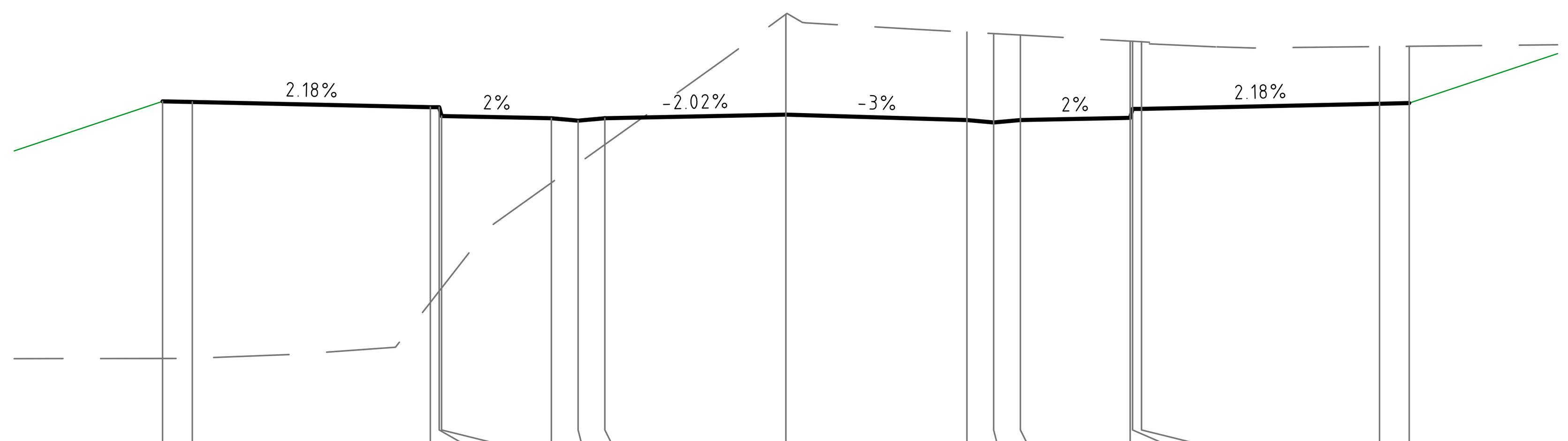



DATUM RL 23.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.661 | 28.651 | 28.564 | 28.564 | 28.414 | 28.377 | 28.337 | 28.377 | 28.412 | 28.321 | 28.281 | 28.321 | 28.358 | 28.508 | 28.508 | 28.595 | 28.606 |
| EXISTING SURFACE | 24.425 | 24.438 | 25.771 | 25.964 | 26.003 | 27.325 | 27.647 | 27.969 | 30.199 | 29.930 | 29.907 | 29.883 | 29.786 | 29.784 | 29.776 | 29.599 | 29.581 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 210.000

Centreline Data
X = 321070.609
Y = 6257054.012
Z = 28.512

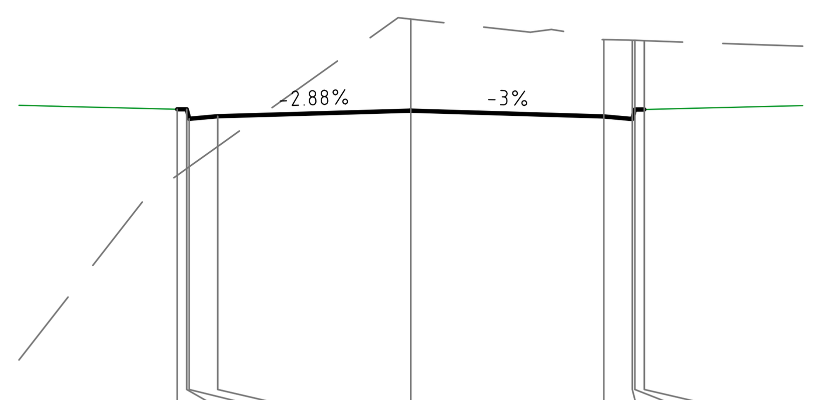



DATUM RL 23.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.735 | 28.725 | 28.638 | 28.638 | 28.488 | 28.451 | 28.411 | 28.451 | 28.512 | 28.421 | 28.381 | 28.421 | 28.458 | 28.608 | 28.608 | 28.695 | 28.706 |
| EXISTING SURFACE | 24.404 | 24.407 | 25.348 | 25.540 | 25.592 | 27.364 | 27.686 | 28.007 | 30.204 | 29.902 | 29.877 | 29.852 | 29.750 | 29.747 | 29.739 | 29.658 | 29.663 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 200.000

Centreline Data
X = 321067.719
Y = 6257063.585
Z = 28.612




DATUM RL 24.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.634 | 28.634 | 28.484 | 28.524 | 28.612 | 28.521 | 28.481 | 28.631 | 28.631 |
| EXISTING SURFACE | 27.589 | 27.696 | 27.725 | 28.046 | 30.062 | 29.737 | 29.727 | 29.726 | 29.721 |
| OFFSET | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 |

CHAINAGE 190.000

MC01

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
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ARCHITECT

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

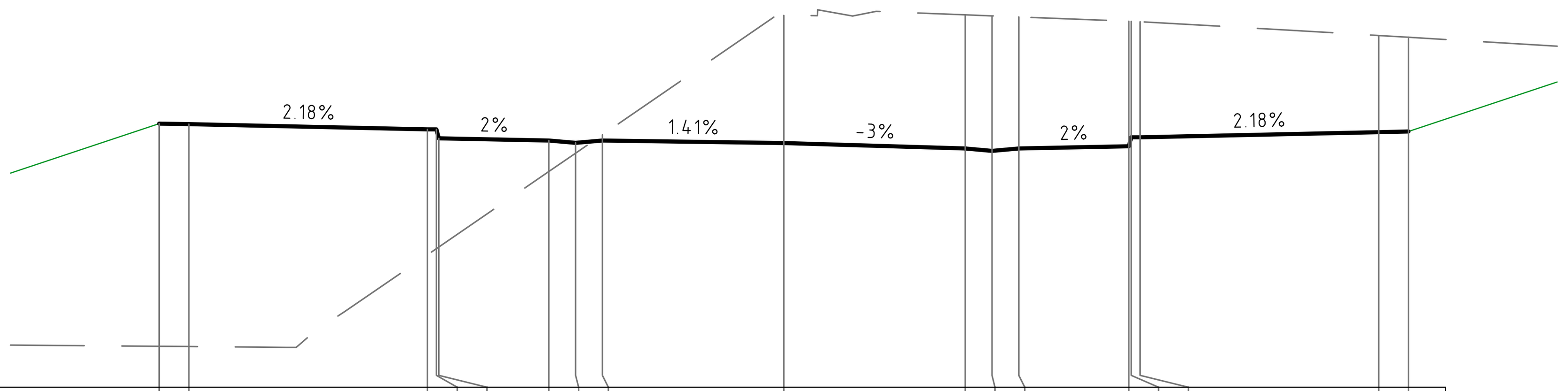
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**CROSS SECTIONS SHEET 03**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.83**
REVISION **03**
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

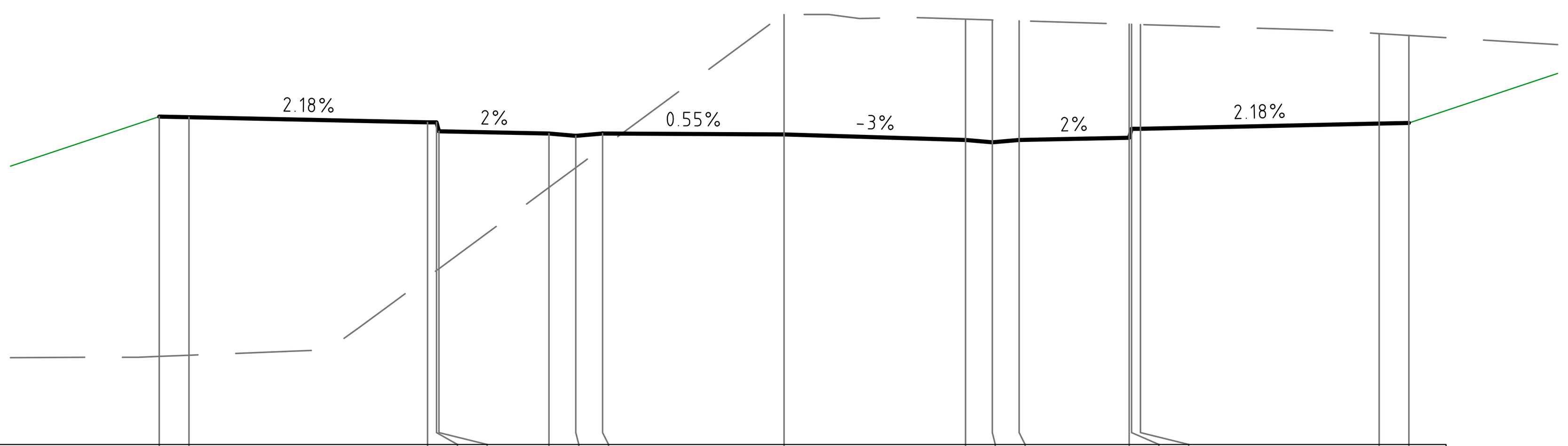



Centreline Data
X = 321082.170
Y = 6257015.719
Z = 28.112

DATUM RL 24.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.440 | 28.430 | 28.342 | 28.342 | 28.192 | 28.155 | 28.115 | 28.155 | 28.112 | 28.021 | 27.981 | 28.021 | 28.058 | 28.208 | 28.208 | 28.295 | 28.306 |
| EXISTING SURFACE | 24.690 | 24.686 | 26.230 | 26.334 | 26.361 | 27.632 | 27.942 | 28.251 | 30.260 | 30.271 | 30.253 | 30.235 | 30.163 | 30.162 | 30.155 | 29.923 | 29.893 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 240.000

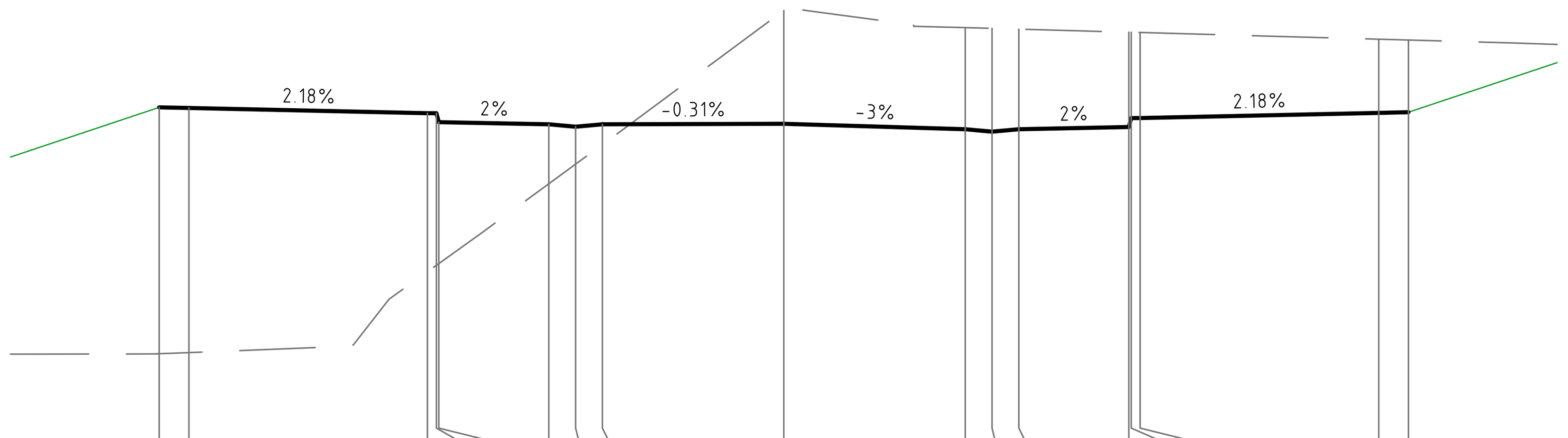



Centreline Data
X = 321079.280
Y = 6257025.292
Z = 28.212

DATUM RL 23.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.513 | 28.503 | 28.416 | 28.416 | 28.266 | 28.229 | 28.189 | 28.229 | 28.212 | 28.121 | 28.081 | 28.121 | 28.158 | 28.308 | 28.308 | 28.395 | 28.406 |
| EXISTING SURFACE | 24.480 | 24.500 | 25.814 | 25.925 | 25.954 | 27.322 | 27.655 | 27.987 | 30.228 | 30.152 | 30.138 | 30.124 | 30.067 | 30.065 | 30.061 | 29.909 | 29.878 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 230.000

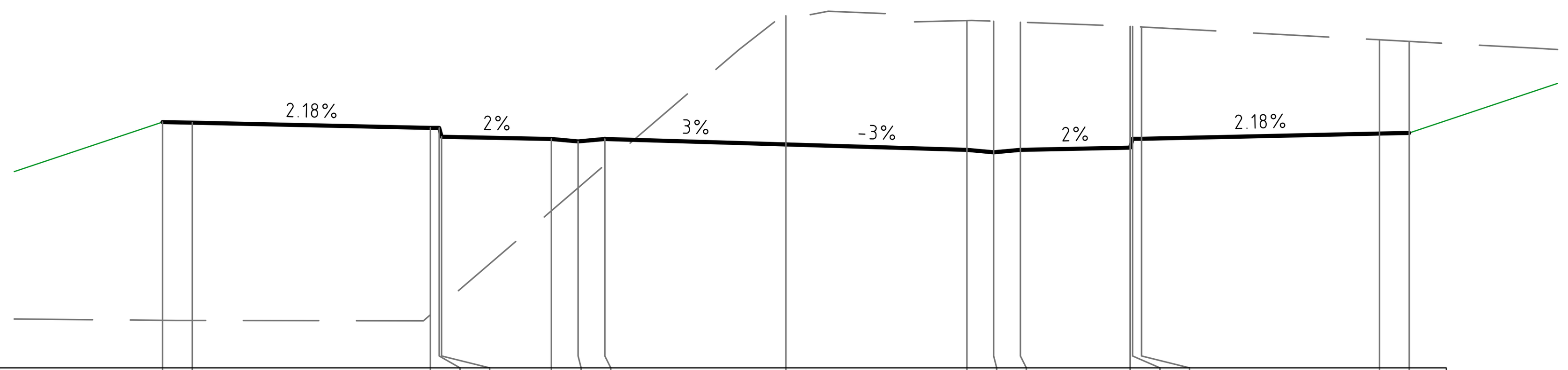



Centreline Data
X = 321076.390
Y = 6257034.865
Z = 28.312

DATUM RL 23.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.587 | 28.577 | 28.490 | 28.490 | 28.340 | 28.303 | 28.263 | 28.303 | 28.312 | 28.221 | 28.181 | 28.221 | 28.258 | 28.408 | 28.408 | 28.495 | 28.506 |
| EXISTING SURFACE | 24.449 | 24.469 | 25.828 | 25.935 | 25.964 | 27.305 | 27.634 | 27.963 | 30.216 | 29.927 | 29.915 | 29.902 | 29.851 | 29.850 | 29.845 | 29.733 | 29.719 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 220.000

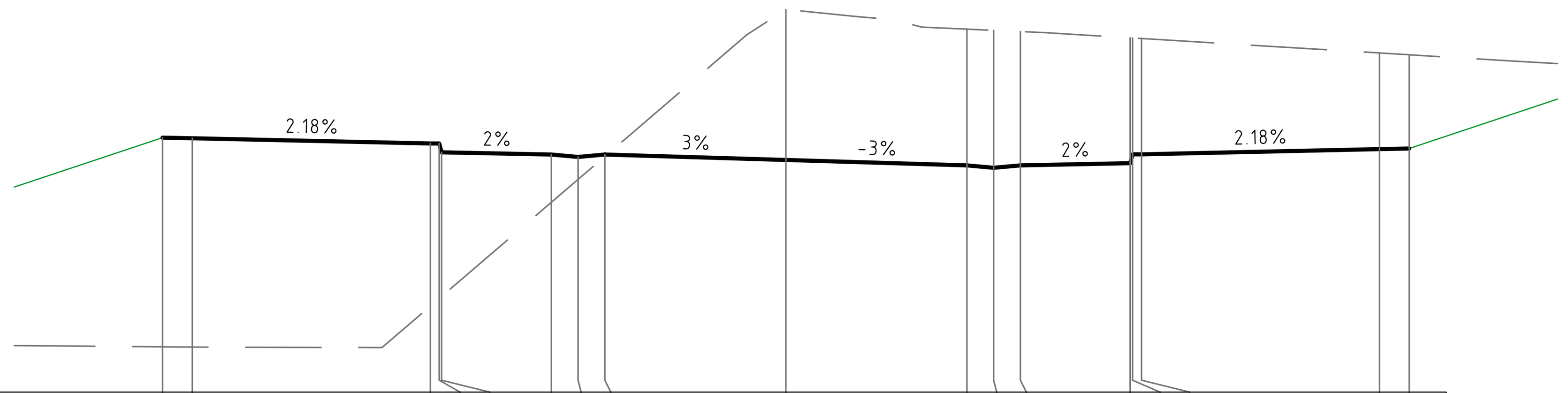



Centreline Data
X = 321090.841
Y = 6256986.999
Z = 27.756

DATUM RL 24.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.132 | 28.122 | 28.034 | 28.034 | 27.884 | 27.847 | 27.807 | 27.847 | 27.756 | 27.664 | 27.624 | 27.664 | 27.701 | 27.851 | 27.851 | 27.939 | 27.950 |
| EXISTING SURFACE | 24.800 | 24.798 | 24.892 | 25.020 | 25.055 | 26.641 | 27.027 | 27.413 | 29.919 | 29.839 | 29.828 | 29.811 | 29.742 | 29.739 | 29.731 | 29.515 | 29.488 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 270.000

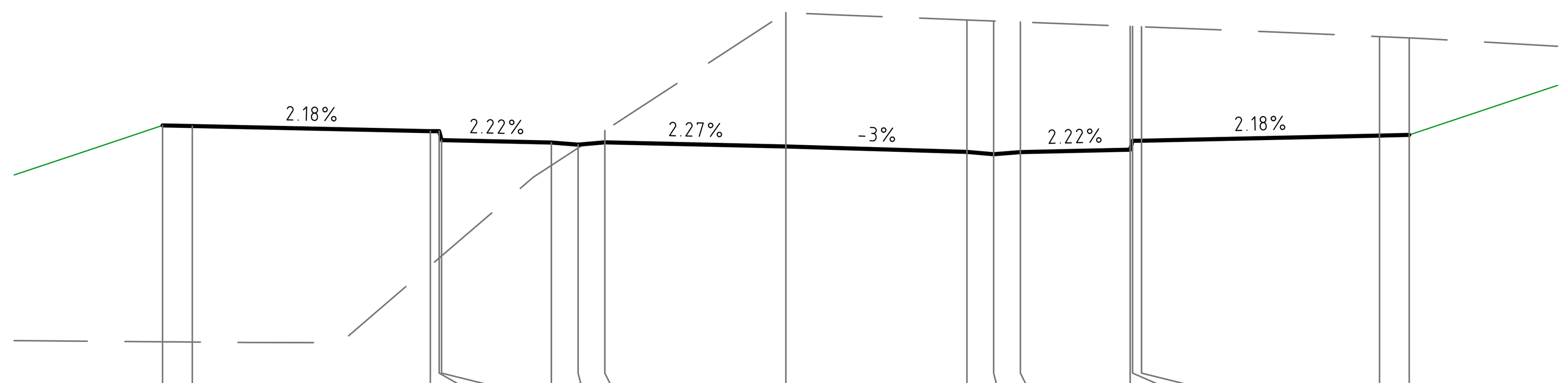



Centreline Data
X = 321087.951
Y = 6256996.572
Z = 27.912

DATUM RL 24.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.288 | 28.278 | 28.191 | 28.191 | 28.041 | 28.004 | 27.964 | 28.004 | 27.912 | 27.821 | 27.781 | 27.821 | 27.858 | 28.008 | 28.008 | 28.095 | 28.106 |
| EXISTING SURFACE | 24.763 | 24.759 | 25.450 | 25.578 | 25.612 | 27.199 | 27.585 | 27.971 | 30.448 | 30.117 | 30.096 | 30.076 | 29.971 | 29.968 | 29.959 | 29.715 | 29.685 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 260.000




Centreline Data
X = 321085.061
Y = 6257006.146
Z = 28.012

DATUM RL 24.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.366 | 28.356 | 28.268 | 28.268 | 28.118 | 28.077 | 28.041 | 28.081 | 28.012 | 27.921 | 27.881 | 27.917 | 27.958 | 28.108 | 28.108 | 28.195 | 28.206 |
| EXISTING SURFACE | 24.727 | 24.722 | 26.007 | 26.136 | 26.170 | 27.693 | 27.986 | 28.279 | 30.263 | 30.139 | 30.121 | 30.104 | 30.032 | 30.030 | 30.024 | 29.858 | 29.836 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 250.000

MC01

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

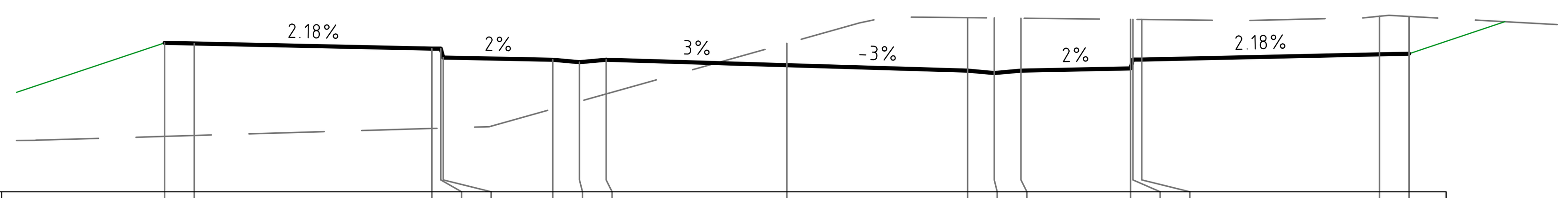
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 04

JOB NUMBER 150077-60
DRAWING NUMBER C04.84
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

Centreline Data
X = 321102.403
Y = 6256948.706
Z = 26.131

DATUM RL 24.0

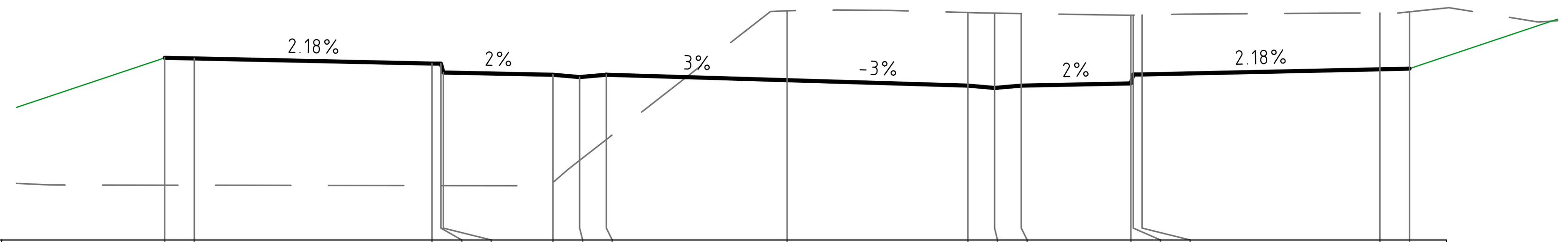



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.507 | 26.497 | 26.410 | 26.410 | 26.260 | 26.223 | 26.183 | 26.223 | 26.131 | 26.040 | 26.000 | 26.040 | 26.077 | 26.227 | 26.227 | 26.314 | 26.325 |
| EXISTING SURFACE | 24.932 | 24.947 | 25.066 | 25.070 | 25.072 | 25.395 | 25.521 | 25.647 | 26.501 | 26.932 | 26.927 | 26.922 | 26.903 | 26.903 | 26.901 | 26.955 | 26.953 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 310.000

Centreline Data
X = 321099.512
Y = 6256958.280
Z = 26.687

DATUM RL 24.0

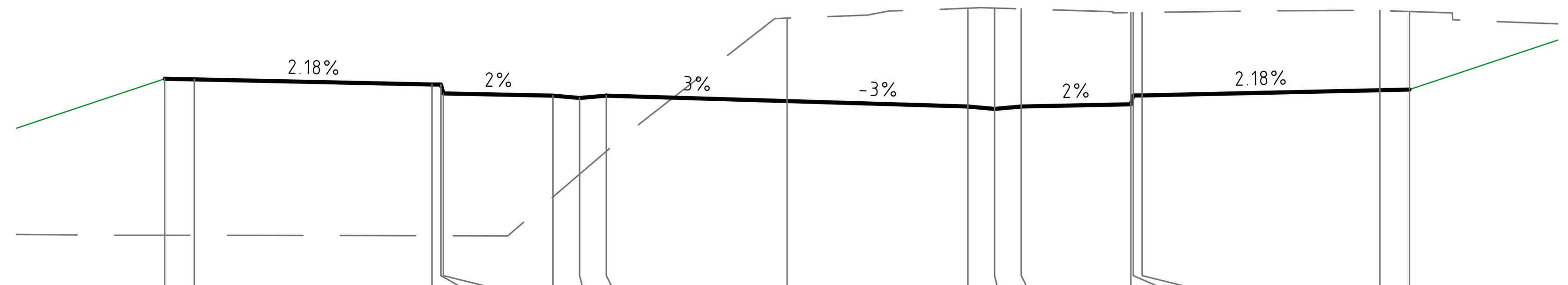



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.063 | 27.053 | 26.966 | 26.966 | 26.816 | 26.779 | 26.739 | 26.779 | 26.687 | 26.596 | 26.556 | 26.596 | 26.633 | 26.783 | 26.783 | 26.870 | 26.881 |
| EXISTING SURFACE | 24.921 | 24.921 | 24.914 | 24.914 | 24.914 | 24.968 | 25.338 | 25.688 | 27.853 | 27.824 | 27.815 | 27.808 | 27.779 | 27.780 | 27.783 | 27.816 | 27.837 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 300.000

Centreline Data
X = 321096.622
Y = 6256967.853
Z = 27.144

DATUM RL 24.0

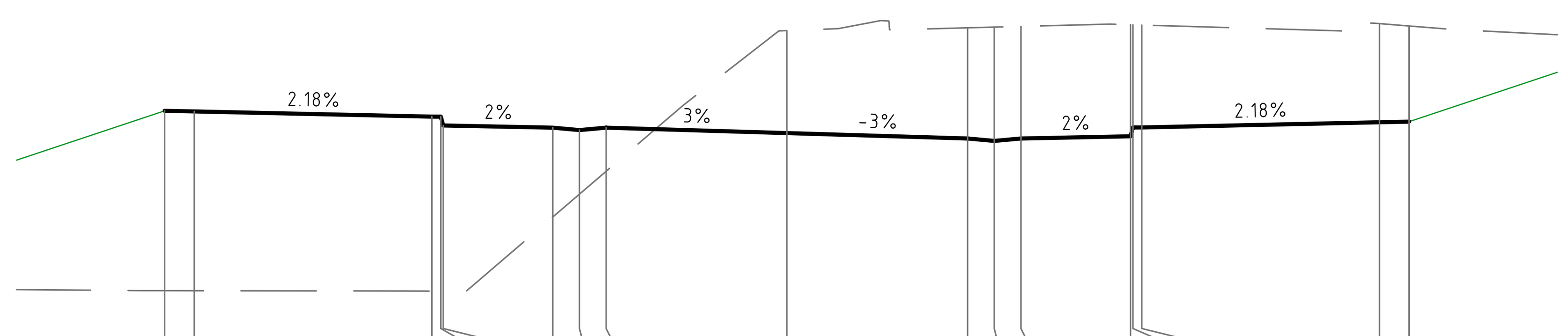



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.519 | 27.509 | 27.422 | 27.422 | 27.272 | 27.235 | 27.195 | 27.235 | 27.144 | 27.052 | 27.012 | 27.052 | 27.089 | 27.239 | 27.239 | 27.326 | 27.337 |
| EXISTING SURFACE | 24.880 | 24.880 | 24.873 | 24.873 | 24.873 | 25.526 | 25.912 | 26.297 | 28.542 | 28.710 | 28.711 | 28.698 | 28.634 | 28.635 | 28.637 | 28.669 | 28.653 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 290.000

Centreline Data
X = 321093.732
Y = 6256977.426
Z = 27.500

DATUM RL 24.0




| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.876 | 27.866 | 27.778 | 27.778 | 27.628 | 27.591 | 27.551 | 27.591 | 27.500 | 27.408 | 27.368 | 27.408 | 27.445 | 27.595 | 27.595 | 27.683 | 27.693 |
| EXISTING SURFACE | 24.839 | 24.839 | 24.832 | 24.832 | 24.832 | 26.083 | 26.469 | 26.855 | 29.230 | 29.278 | 29.290 | 29.301 | 29.330 | 29.329 | 29.324 | 29.349 | 29.309 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 280.000

Centreline Data
X = 321116.854
Y = 6256900.841
Z = 23.131

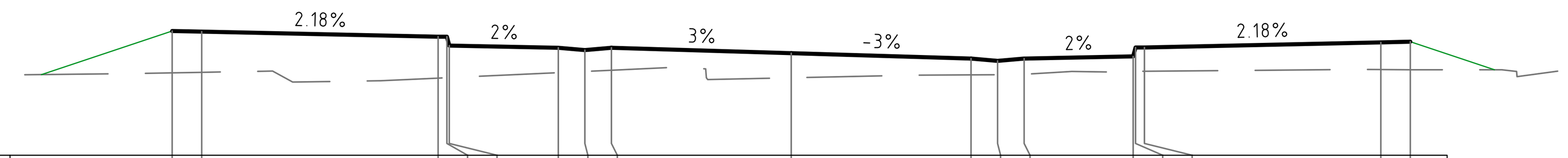
DATUM RL 22.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.507 | 23.497 | 23.410 | 23.410 | 23.260 | 23.223 | 23.183 | 23.223 | 23.131 | 23.040 | 23.000 | 23.040 | 23.077 | 23.227 | 23.227 | 23.314 | 23.325 |
| EXISTING SURFACE | 22.902 | 22.893 | 22.793 | 22.797 | 22.798 | 22.816 | 22.809 | 22.803 | 22.816 | 22.812 | 22.810 | 22.808 | 22.797 | 22.797 | 22.796 | 22.726 | 22.721 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 360.000

Centreline Data
X = 321113.964
Y = 6256910.414
Z = 23.731

DATUM RL 22.0

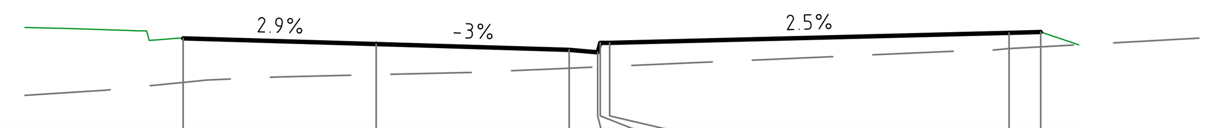



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.107 | 24.097 | 24.010 | 24.010 | 23.860 | 23.823 | 23.783 | 23.823 | 23.731 | 23.640 | 23.600 | 23.640 | 23.677 | 23.827 | 23.827 | 23.914 | 23.925 |
| EXISTING SURFACE | 23.397 | 23.406 | 23.307 | 23.314 | 23.316 | 23.401 | 23.421 | 23.442 | 23.314 | 23.363 | 23.366 | 23.372 | 23.407 | 23.423 | 23.424 | 23.453 | 23.450 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 350.000

Centreline Data
X = 321111.073
Y = 6256919.987
Z = 24.331

DATUM RL 23.0

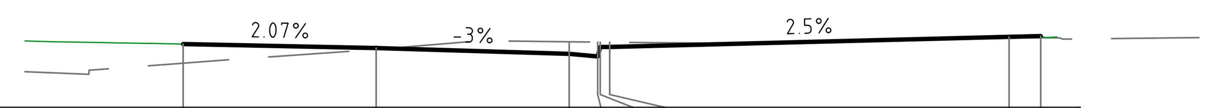



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.420 | 24.331 | 24.240 | 24.200 | 24.350 | 24.350 | 24.508 | 24.520 |
| EXISTING SURFACE | 23.727 | 23.849 | 23.950 | 23.970 | 23.972 | 23.978 | 24.259 | 24.287 |
| OFFSET | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 340.000

Centreline Data
X = 321108.183
Y = 6256929.560
Z = 24.931

DATUM RL 24.0

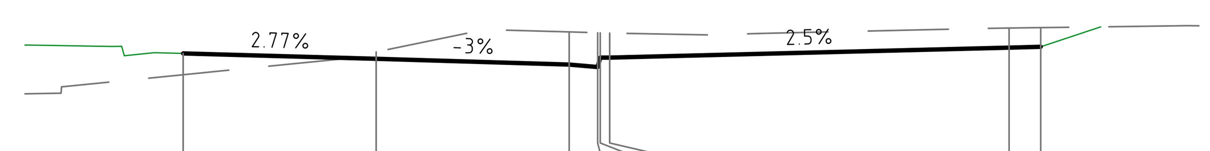



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.994 | 24.931 | 24.840 | 24.800 | 24.950 | 24.950 | 25.108 | 25.120 |
| EXISTING SURFACE | 24.694 | 24.910 | 25.030 | 25.025 | 25.025 | 25.023 | 25.102 | 25.095 |
| OFFSET | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 330.000

Centreline Data
X = 321105.293
Y = 6256939.133
Z = 25.531

DATUM RL 24.0




| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.616 | 25.531 | 25.440 | 25.400 | 25.550 | 25.550 | 25.708 | 25.720 |
| EXISTING SURFACE | 25.279 | 25.639 | 25.955 | 25.943 | 25.941 | 25.937 | 26.016 | 26.023 |
| OFFSET | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 320.000

MC01

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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ARCHITECT

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

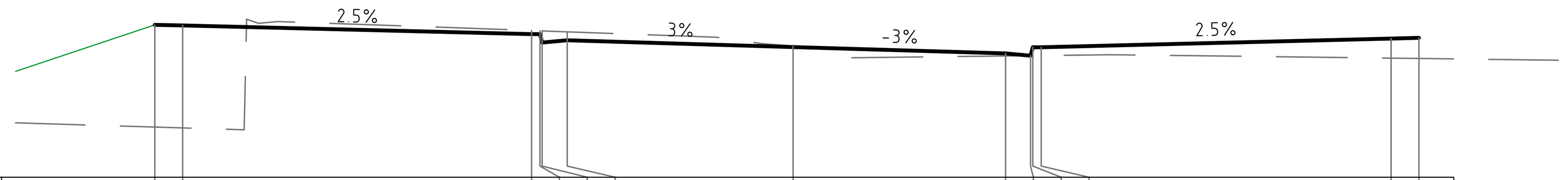
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 05

JOB NUMBER 150077-60
DRAWING NUMBER C04.85
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

Centreline Data
X = 321126.449
Y = 6256872.505
Z = 21.331

DATUM RL 19.0

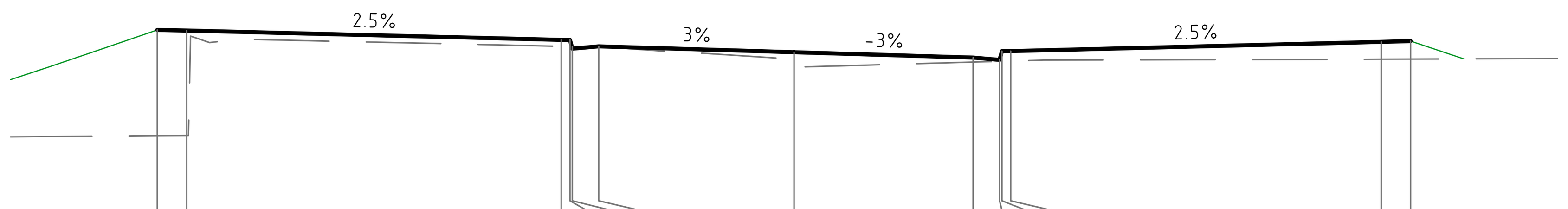



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 21.730 | 21.720 | 21.563 | 21.563 | 21.413 | 21.453 | 21.331 | 21.217 | 21.177 | 21.327 | 21.327 | 21.484 | 21.497 |
| EXISTING SURFACE | 19.899 | 19.884 | 21.628 | 21.622 | 21.621 | 21.604 | 21.350 | 21.172 | 21.177 | 21.177 | 21.179 | 21.133 | 21.127 |
| OFFSET | -11.457 | -10.957 | -4.694 | -4.544 | -4.504 | -4.054 | 0.000 | 3.812 | 4.262 | 4.302 | 4.452 | 10.733 | 11.233 |

CHAINAGE 390.000

Centreline Data
X = 321123.614
Y = 6256878.452
Z = 21.728

DATUM RL 19.0

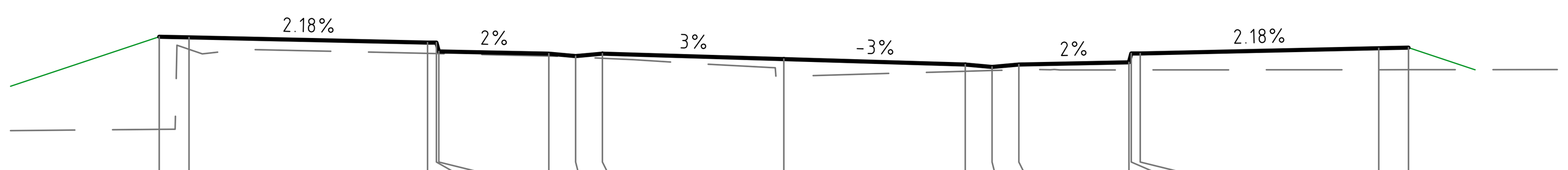



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.107 | 22.097 | 21.938 | 21.938 | 21.788 | 21.828 | 21.728 | 21.637 | 21.597 | 21.747 | 21.747 | 21.904 | 21.917 |
| EXISTING SURFACE | 20.308 | 20.313 | 21.827 | 21.823 | 21.823 | 21.812 | 21.474 | 21.560 | 21.572 | 21.574 | 21.578 | 21.609 | 21.611 |
| OFFSET | -10.845 | -10.345 | -3.967 | -3.817 | -3.777 | -3.327 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 383.386

Centreline Data
X = 321122.635
Y = 6256881.694
Z = 21.931

DATUM RL 20.0

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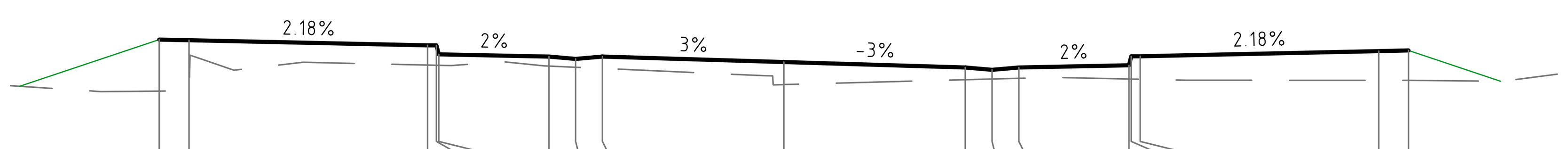
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.307 | 22.297 | 22.210 | 22.210 | 22.060 | 22.023 | 21.983 | 22.023 | 21.931 | 21.840 | 21.800 | 21.840 | 21.877 | 22.027 | 22.027 | 22.114 | 22.125 |
| EXISTING SURFACE | 20.750 | 22.096 | 22.027 | 22.024 | 22.023 | 21.982 | 21.966 | 21.946 | 21.640 | 21.727 | 21.740 | 21.752 | 21.749 | 21.749 | 21.749 | 21.753 | 21.753 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 380.000

Centreline Data
X = 321119.744
Y = 6256891.267
Z = 22.531

DATUM RL 21.0

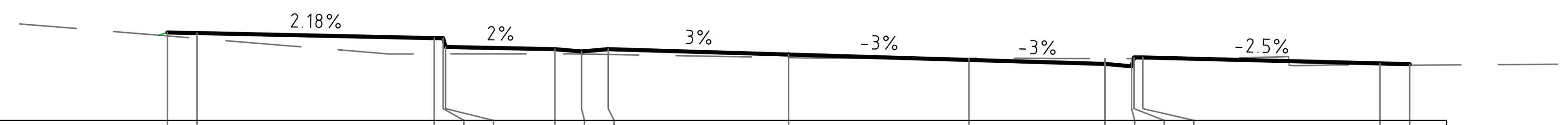



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.907 | 22.897 | 22.810 | 22.810 | 22.660 | 22.623 | 22.583 | 22.623 | 22.531 | 22.440 | 22.400 | 22.440 | 22.477 | 22.627 | 22.627 | 22.714 | 22.725 |
| EXISTING SURFACE | 22.044 | 22.048 | 22.480 | 22.477 | 22.476 | 22.464 | 22.444 | 22.423 | 22.153 | 22.234 | 22.246 | 22.258 | 22.246 | 22.245 | 22.242 | 22.225 | 22.224 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 370.000

Centreline Data
X = 321162.626
Y = 6256867.459
Z = 19.120

DATUM RL 18.0

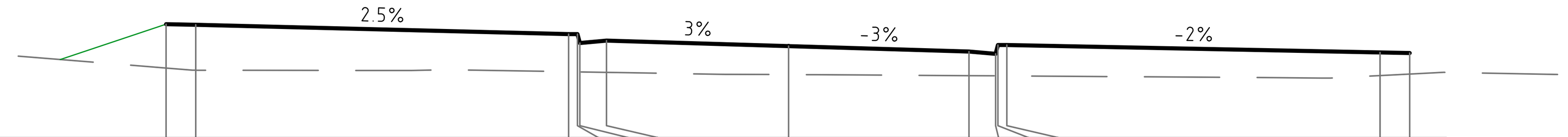



| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.496 | 19.486 | 19.398 | 19.398 | 19.248 | 19.211 | 19.171 | 19.211 | 19.120 | 19.028 | 18.959 | 18.919 | 19.069 | 19.069 | 18.969 | 18.957 |
| EXISTING SURFACE | 19.436 | 19.395 | 19.130 | 19.130 | 19.130 | 19.130 | 19.128 | 19.120 | 19.067 | 19.056 | 19.051 | 19.049 | 19.049 | 19.049 | 18.940 | 18.939 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 5.350 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 430.000

Centreline Data
X = 321153.053
Y = 6256864.569
Z = 19.545

DATUM RL 18.0

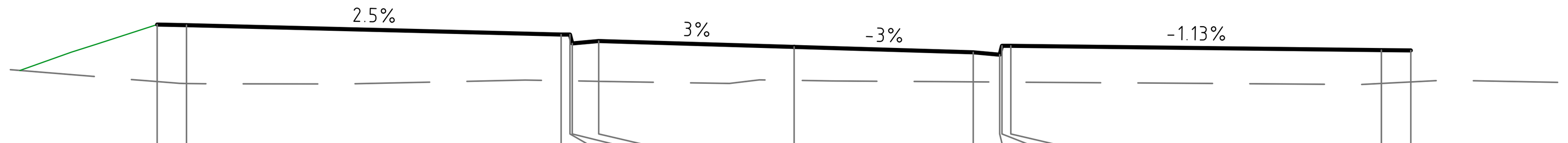



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.915 | 19.905 | 19.748 | 19.748 | 19.598 | 19.638 | 19.545 | 19.454 | 19.414 | 19.564 | 19.564 | 19.438 | 19.428 |
| EXISTING SURFACE | 19.174 | 19.137 | 19.112 | 19.109 | 19.109 | 19.101 | 19.063 | 19.045 | 19.042 | 19.042 | 19.041 | 19.047 | 19.072 |
| OFFSET | -10.523 | -10.023 | -3.719 | -3.569 | -3.529 | -3.079 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 420.000

Centreline Data
X = 321150.784
Y = 6256863.884
Z = 19.675

DATUM RL 18.0

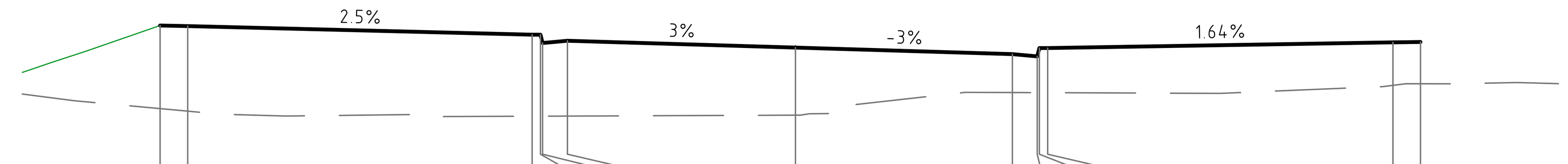



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.055 | 20.045 | 19.885 | 19.885 | 19.735 | 19.775 | 19.675 | 19.584 | 19.544 | 19.694 | 19.694 | 19.622 | 19.617 |
| EXISTING SURFACE | 19.088 | 19.055 | 19.103 | 19.100 | 19.100 | 19.092 | 19.108 | 19.083 | 19.080 | 19.080 | 19.079 | 19.056 | 19.081 |
| OFFSET | -10.845 | -10.345 | -3.967 | -3.817 | -3.777 | -3.327 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 417.630

Centreline Data
X = 321143.246
Y = 6256862.988
Z = 20.131

DATUM RL 18.0

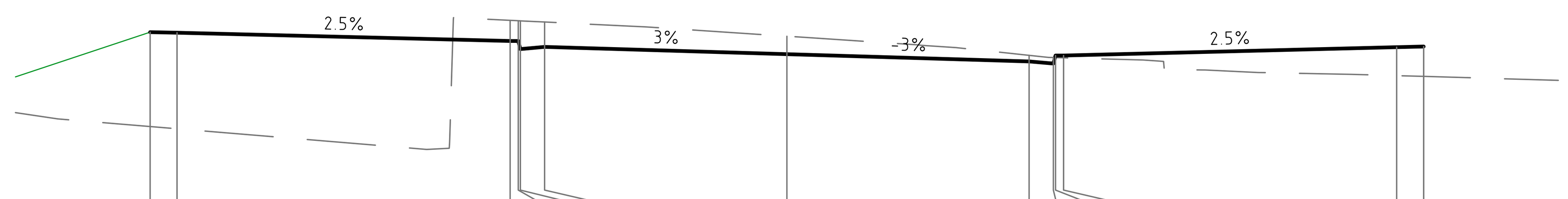



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.532 | 20.522 | 20.365 | 20.365 | 20.215 | 20.255 | 20.131 | 20.013 | 19.973 | 20.123 | 20.123 | 20.226 | 20.234 |
| EXISTING SURFACE | 19.026 | 18.980 | 18.888 | 18.889 | 18.889 | 18.891 | 18.907 | 19.317 | 19.315 | 19.315 | 19.315 | 19.447 | 19.476 |
| OFFSET | -11.525 | -11.025 | -4.776 | -4.626 | -4.586 | -4.136 | 0.000 | 3.936 | 4.386 | 4.426 | 4.576 | 10.839 | 11.339 |

CHAINAGE 410.000

Centreline Data
X = 321133.737
Y = 6256865.786
Z = 20.731

DATUM RL 18.0




| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 21.141 | 21.131 | 20.976 | 20.976 | 20.826 | 20.866 | 20.731 | 20.596 | 20.556 | 20.706 | 20.706 | 20.861 | 20.874 |
| EXISTING SURFACE | 19.384 | 19.342 | 21.361 | 21.354 | 21.352 | 21.330 | 21.066 | 20.710 | 20.668 | 20.667 | 20.663 | 20.332 | 20.318 |
| OFFSET | -11.825 | -11.325 | -5.139 | -4.989 | -4.949 | -4.499 | 0.000 | 4.498 | 4.948 | 4.988 | 5.138 | 11.324 | 11.824 |

CHAINAGE 400.000

MC01

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — CROSS SECTIONS SHEET 06

JOB NUMBER: 150077-60

DRAWING NUMBER: C04.86

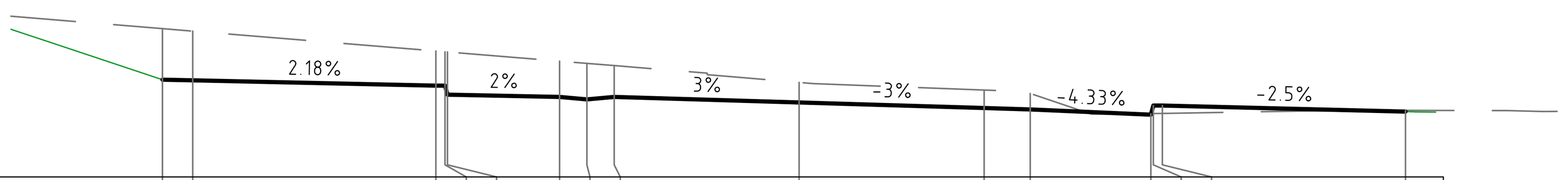
REVISION: 03

DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

Centreline Data
X = 321200.919
Y = 6256879.020
Z = 19.229

DATUM RL 18.0

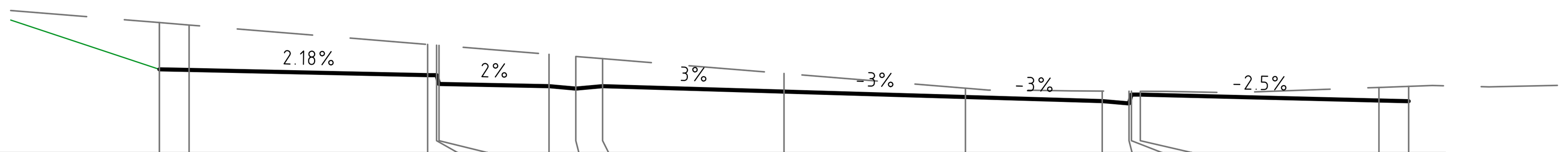



| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.605 | 19.595 | 19.508 | 19.508 | 19.358 | 19.321 | 19.281 | 19.321 | 19.229 | 19.138 | 19.115 | 19.029 | 19.179 | 19.179 | 19.079 |
| EXISTING SURFACE | 20.449 | 20.408 | 20.080 | 20.067 | 20.064 | 19.913 | 19.876 | 19.839 | 19.561 | 19.435 | 19.378 | 19.046 | 19.047 | 19.049 | 19.099 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.051 | 3.812 | 5.801 | 5.841 | 5.991 | 10.000 |

CHAINAGE 470.000

Centreline Data
X = 321191.346
Y = 6256876.130
Z = 19.029

DATUM RL 18.0

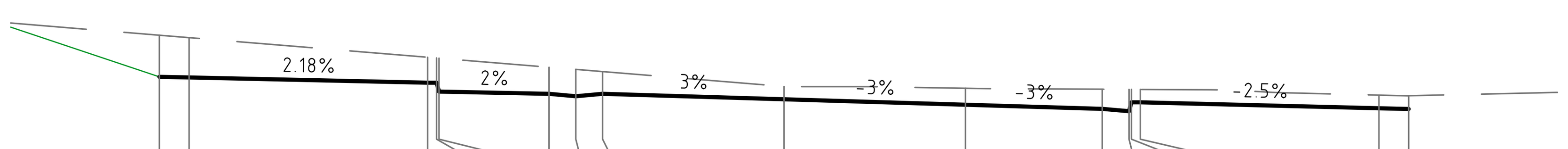



| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.405 | 19.395 | 19.308 | 19.308 | 19.158 | 19.121 | 19.081 | 19.121 | 19.029 | 18.938 | 18.869 | 18.829 | 18.979 | 18.979 | 18.879 | 18.866 |
| EXISTING SURFACE | 20.196 | 20.155 | 19.826 | 19.814 | 19.811 | 19.659 | 19.623 | 19.586 | 19.336 | 19.087 | 19.039 | 19.036 | 19.036 | 19.035 | 19.100 | 19.118 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 5.350 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 460.000

Centreline Data
X = 321181.773
Y = 6256873.240
Z = 18.869

DATUM RL 18.0

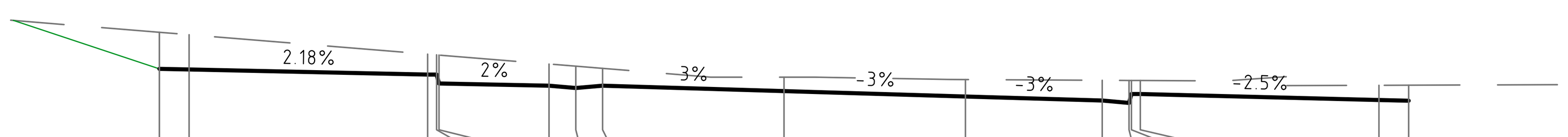



| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.245 | 19.235 | 19.147 | 19.147 | 18.997 | 18.960 | 18.920 | 18.960 | 18.869 | 18.777 | 18.708 | 18.668 | 18.818 | 18.818 | 18.718 | 18.706 |
| EXISTING SURFACE | 19.942 | 19.902 | 19.573 | 19.561 | 19.558 | 19.406 | 19.369 | 19.333 | 19.083 | 19.053 | 19.037 | 19.035 | 19.035 | 19.034 | 18.939 | 18.927 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 5.350 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 450.000

Centreline Data
X = 321178.206
Y = 6256872.163
Z = 18.855

DATUM RL 18.0

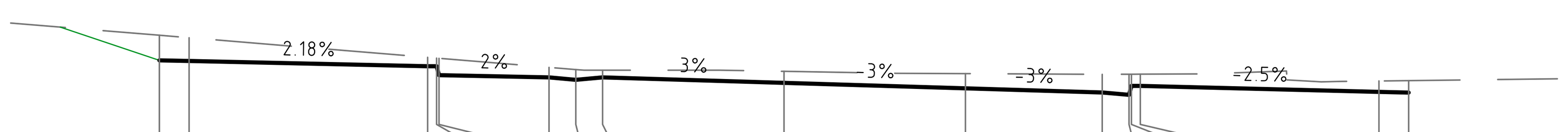



| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.231 | 19.221 | 19.133 | 19.133 | 18.983 | 18.946 | 18.906 | 18.946 | 18.855 | 18.763 | 18.694 | 18.654 | 18.804 | 18.804 | 18.704 | 18.692 |
| EXISTING SURFACE | 19.848 | 19.807 | 19.479 | 19.467 | 19.463 | 19.312 | 19.275 | 19.238 | 19.090 | 19.049 | 19.037 | 19.035 | 19.034 | 19.034 | 18.952 | 18.954 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 5.350 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 446.275

Centreline Data
X = 321172.200
Y = 6256870.349
Z = 18.894

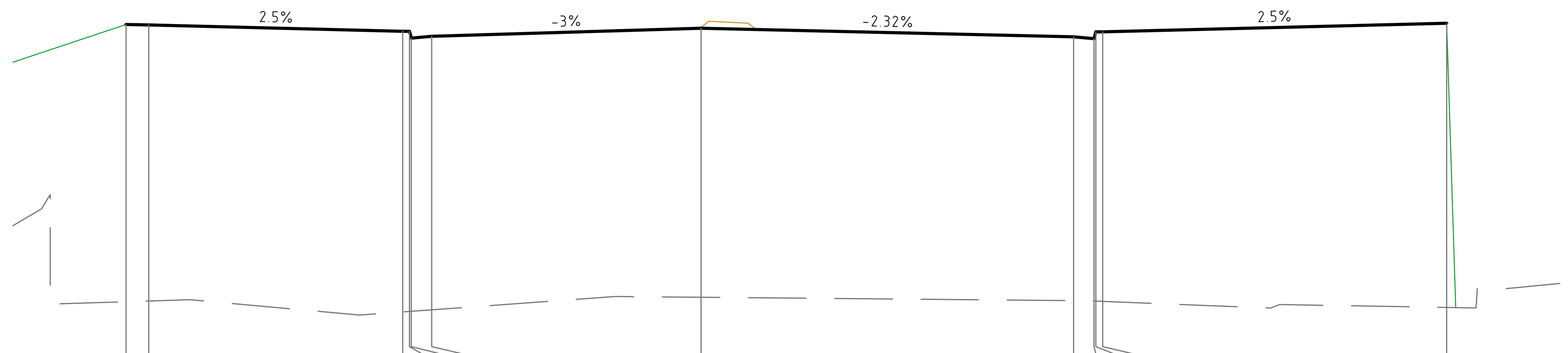
DATUM RL 18.0




| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.270 | 19.260 | 19.173 | 19.173 | 19.023 | 18.986 | 18.946 | 18.986 | 18.894 | 18.803 | 18.734 | 18.694 | 18.844 | 18.844 | 18.744 | 18.731 |
| EXISTING SURFACE | 19.689 | 19.648 | 19.320 | 19.308 | 19.305 | 19.153 | 19.116 | 19.105 | 19.087 | 19.048 | 19.036 | 19.038 | 19.038 | 19.039 | 18.926 | 18.932 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 5.350 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 440.000

MC01

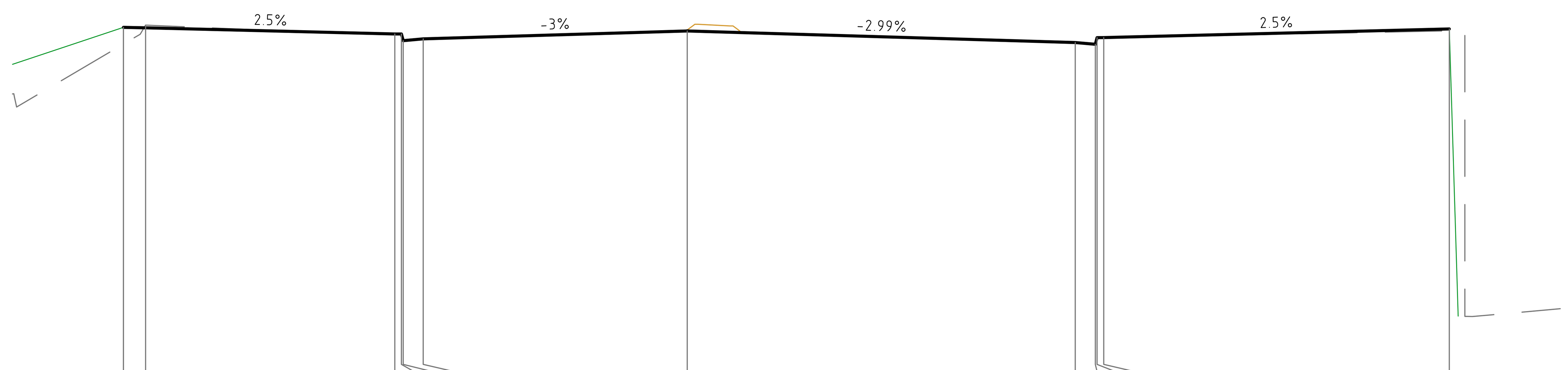



Centreline Data
X = 321118.536
Y = 6257247.959
Z = 36.230

DATUM RL 29.0

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 36.311 | 36.301 | 36.161 | 36.161 | 36.011 | 36.051 | 36.230 | 36.039 | 36.000 | 36.150 | 36.150 | 36.340 |
| EXISTING SURFACE | 30.192 | 30.208 | 29.967 | 29.978 | 29.980 | 30.013 | 30.291 | 30.216 | 30.207 | 30.206 | 30.200 | 30.066 |
| OFFSET | -12.700 | -12.200 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 8.229 | 8.680 | 8.720 | 8.870 | 16.468 |

CHAINAGE 140.000




Centreline Data
X = 321116.277
Y = 6257257.700
Z = 36.713

DATUM RL 29.0

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 36.795 | 36.785 | 36.645 | 36.645 | 36.495 | 36.535 | 36.713 | 36.452 | 36.413 | 36.563 | 36.564 | 36.758 |
| EXISTING SURFACE | 36.417 | 36.846 | 36.645 | 36.645 | 36.495 | 36.535 | 36.713 | 36.451 | 36.413 | 36.561 | 36.561 | 36.717 |
| OFFSET | -12.704 | -12.204 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 8.742 | 9.193 | 9.233 | 9.383 | 17.169 |

CHAINAGE 130.000

MC02

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA  DESIGNED: A.RIVETT  JOB MANAGER: P.SUTTON  VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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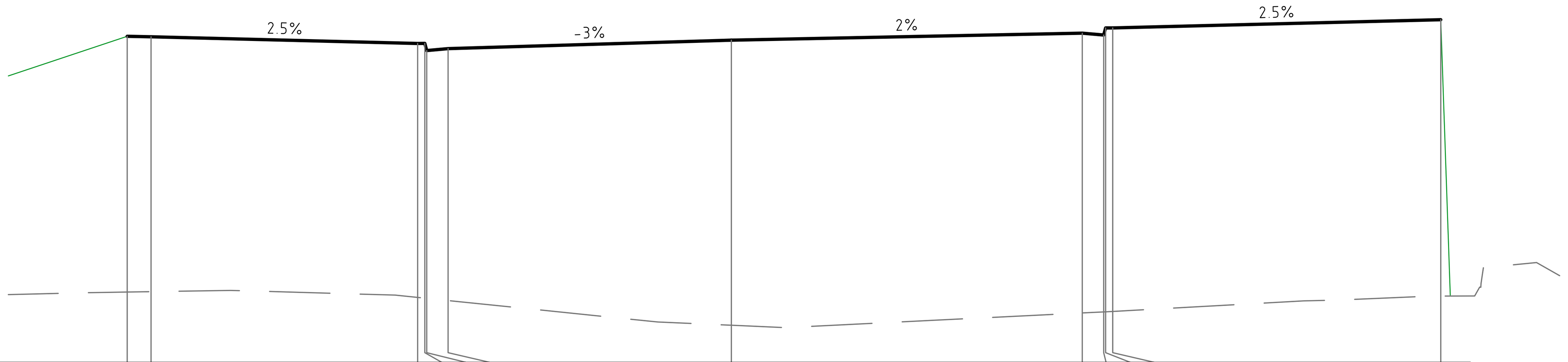
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**CROSS SECTIONS SHEET 07**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.87**
REVISION **03**
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

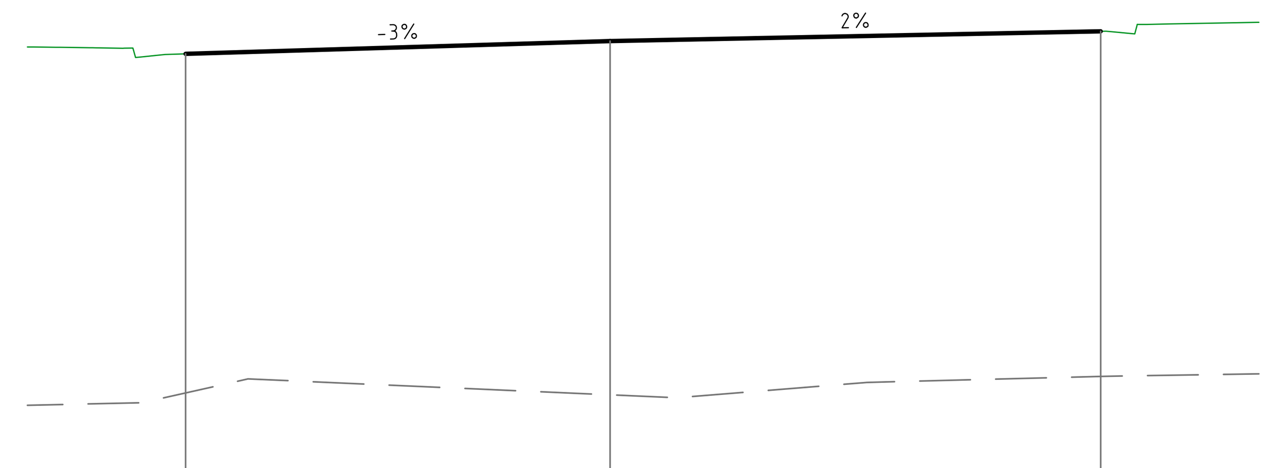



Centreline Data
X = 321125.887
Y = 6257218.875
Z = 34.770

DATUM RL 28.0

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 34.851 | 34.841 | 34.701 | 34.701 | 34.551 | 34.591 | 34.770 | 34.917 | 34.877 | 35.027 | 35.027 | 35.200 |
| EXISTING SURFACE | 29.474 | 29.482 | 29.361 | 29.346 | 29.342 | 29.296 | 28.776 | 29.034 | 29.057 | 29.059 | 29.066 | 29.390 |
| OFFSET | -12.700 | -12.200 | -6.594 | -6.444 | -6.404 | -5.954 | 0.000 | 7.379 | 7.829 | 7.869 | 8.019 | 14.915 |

CHAINAGE 170.000

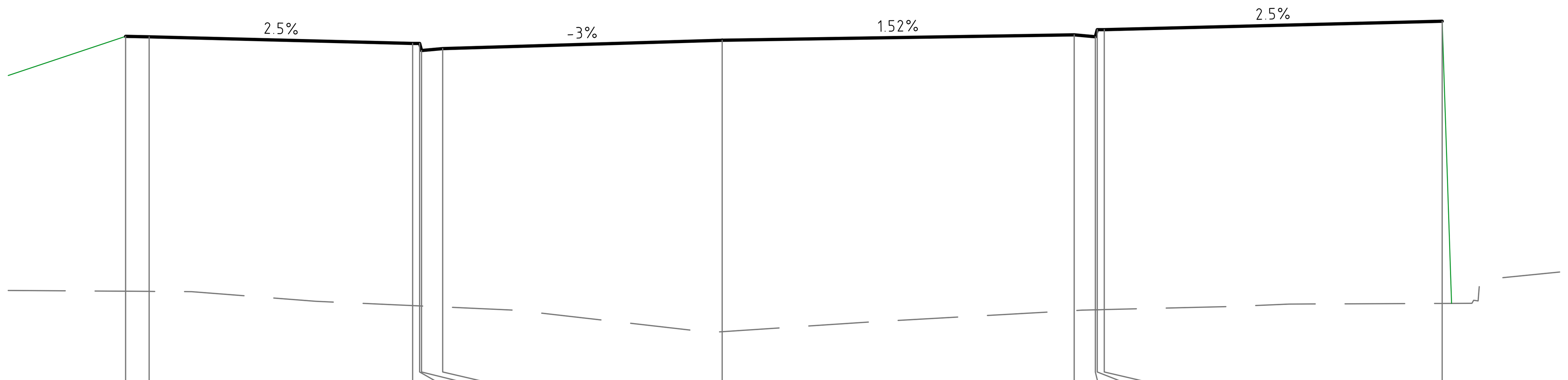



Centreline Data
X = 321131.170
Y = 6257199.585
Z = 33.794

DATUM RL 27.0

| | | | |
|---|---|---|---|
| FINISHED SURFACE | 33.593 | 33.794 | 33.949 |
| EXISTING SURFACE | 28.239 | 28.209 | 28.500 |
| OFFSET | -6.706 | 0.000 | 7.752 |

CHAINAGE 190.000

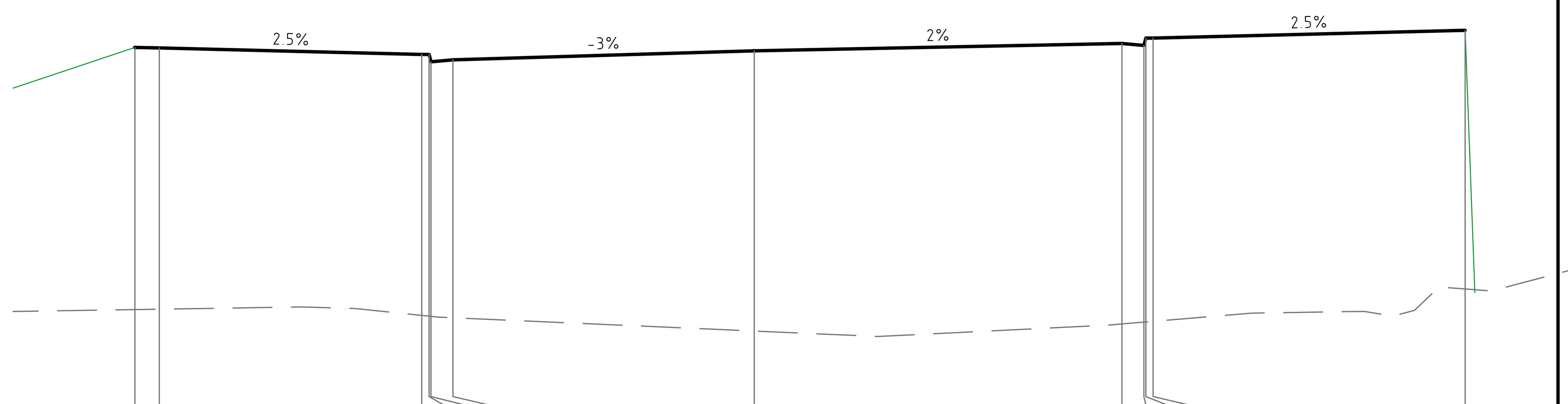



Centreline Data
X = 321123.340
Y = 6257228.545
Z = 35.258

DATUM RL 28.0

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 35.339 | 35.329 | 35.189 | 35.189 | 35.039 | 35.079 | 35.258 | 35.371 | 35.332 | 35.482 | 35.482 | 35.662 |
| EXISTING SURFACE | 29.917 | 29.914 | 29.611 | 29.605 | 29.603 | 29.583 | 29.056 | 29.505 | 29.521 | 29.522 | 29.526 | 29.658 |
| OFFSET | -12.700 | -12.200 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 7.495 | 7.945 | 7.985 | 8.136 | 15.331 |

CHAINAGE 160.000

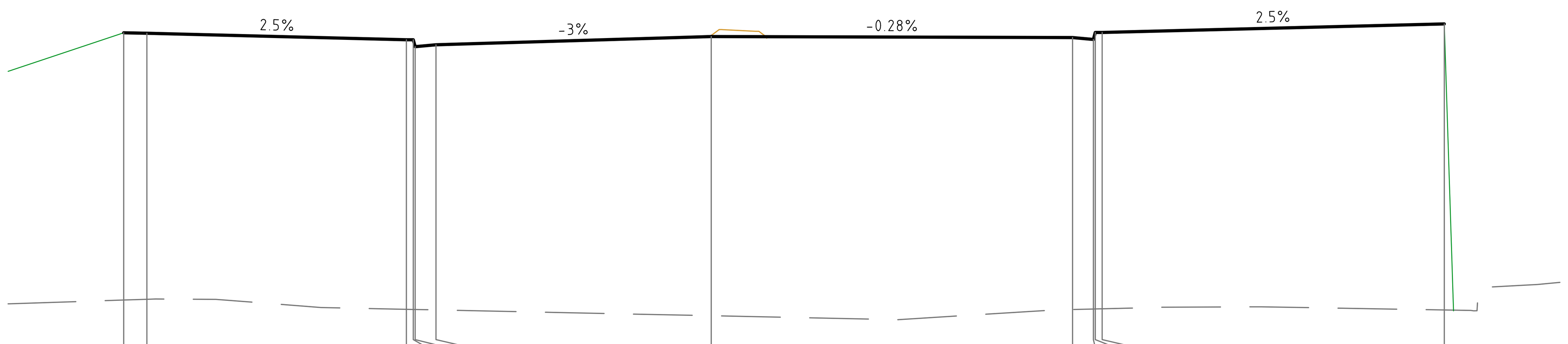



Centreline Data
X = 321128.521
Y = 6257209.228
Z = 34.282

DATUM RL 27.0

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 34.351 | 34.341 | 34.206 | 34.206 | 34.056 | 34.096 | 34.282 | 34.433 | 34.392 | 34.542 | 34.542 | 34.702 |
| EXISTING SURFACE | 28.982 | 28.990 | 28.863 | 28.847 | 28.843 | 28.814 | 28.542 | 28.688 | 28.725 | 28.728 | 28.741 | 29.404 |
| OFFSET | -12.710 | -12.210 | -6.823 | -6.673 | -6.633 | -6.183 | 0.000 | 7.548 | 7.998 | 8.038 | 8.188 | 14.593 |

CHAINAGE 180.000

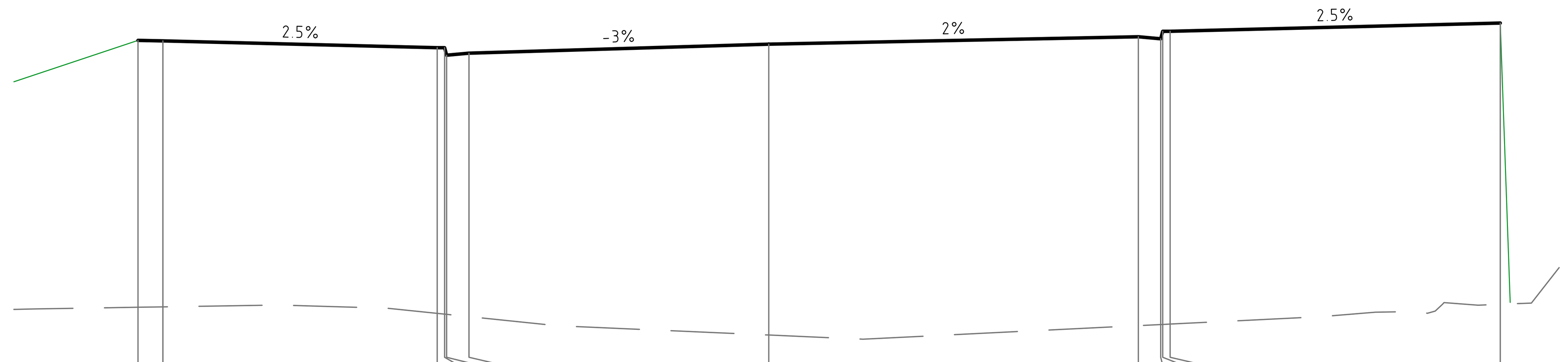



Centreline Data
X = 321120.890
Y = 6257238.240
Z = 35.744

DATUM RL 29.0

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 35.826 | 35.816 | 35.676 | 35.676 | 35.526 | 35.566 | 35.744 | 35.722 | 35.683 | 35.833 | 35.833 | 36.018 |
| EXISTING SURFACE | 30.054 | 30.071 | 29.854 | 29.851 | 29.850 | 29.841 | 29.716 | 29.849 | 29.860 | 29.861 | 29.865 | 29.840 |
| OFFSET | -12.700 | -12.200 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 7.812 | 8.262 | 8.302 | 8.452 | 15.848 |

CHAINAGE 150.000




Centreline Data
X = 321127.322
Y = 6257213.593
Z = 34.503

DATUM RL 28.0

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 34.579 | 34.569 | 34.431 | 34.431 | 34.281 | 34.322 | 34.503 | 34.651 | 34.611 | 34.761 | 34.761 | 34.927 |
| EXISTING SURFACE | 29.207 | 29.215 | 29.084 | 29.069 | 29.065 | 29.018 | 28.648 | 28.837 | 28.859 | 28.861 | 28.868 | 29.266 |
| OFFSET | -12.700 | -12.200 | -6.676 | -6.526 | -6.486 | -6.036 | 0.000 | 7.443 | 7.893 | 7.933 | 8.084 | 14.730 |

CHAINAGE 175.473

MC02

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER:

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

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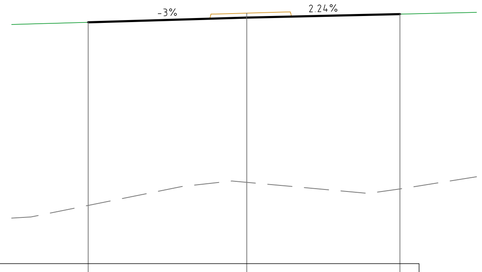
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — CROSS SECTIONS SHEET 08

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.88
REVISION: 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

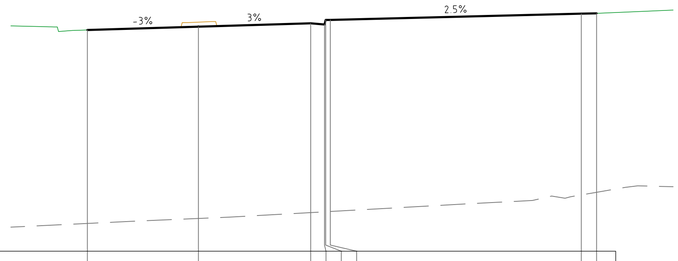



Centreline Data
X = 321135.302
Y = 6257184.540
Z = 33.032

DATUM RL 25.0

| | | | | | | |
|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.877 | 33.032 | 33.144 | | | |
| EXISTING SURFACE | 26.901 | 27.654 | 27.439 | | | |
| OFFSET | -5.178 | 0.000 | 5.001 | | | |

CHAINAGE 205.602

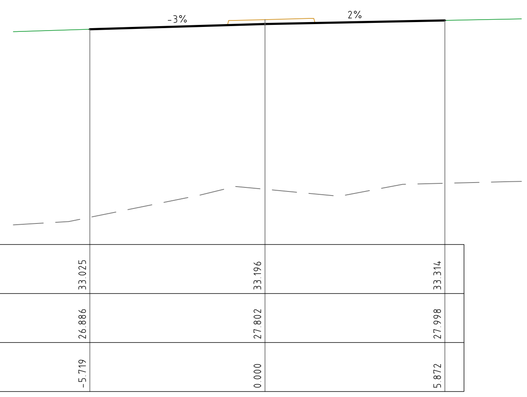



Centreline Data
X = 321139.311
Y = 6257170.712
Z = 32.330

DATUM RL 25.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.221 | 32.330 | 32.440 | 32.400 | 32.550 | 32.550 | 32.755 | 32.765 | |
| EXISTING SURFACE | 25.906 | 26.070 | 26.261 | 26.286 | 26.288 | 26.297 | 26.837 | 26.923 | |
| OFFSET | -3.624 | 0.000 | 3.666 | 4.116 | 4.156 | 4.306 | 12.500 | 13.000 | |

CHAINAGE 220.000

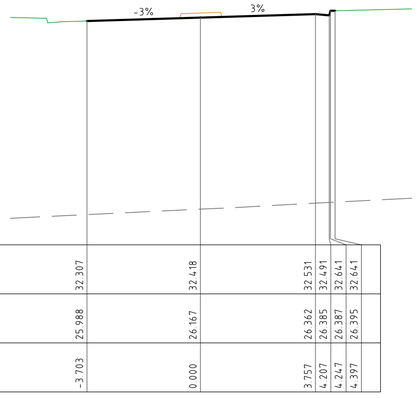



Centreline Data
X = 321134.413
Y = 6257187.776
Z = 33.196

DATUM RL 26.0

| | | | | | | |
|---|---|---|---|---|---|---|
| FINISHED SURFACE | 33.025 | 33.196 | 33.314 | | | |
| EXISTING SURFACE | 26.886 | 27.802 | 27.998 | | | |
| OFFSET | -5.719 | 0.000 | 5.872 | | | |

CHAINAGE 202.246

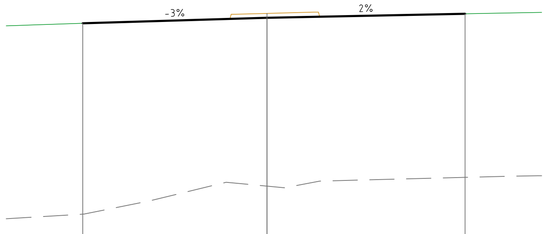



Centreline Data
X = 321138.788
Y = 6257172.445
Z = 32.418

DATUM RL 25.0

| | | | | | | |
|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.307 | 32.418 | 32.531 | 32.491 | 32.641 | 32.641 |
| EXISTING SURFACE | 25.988 | 26.167 | 26.362 | 26.385 | 26.387 | 26.395 |
| OFFSET | -3.703 | 0.000 | 3.757 | 4.207 | 4.247 | 4.397 |

CHAINAGE 218.190

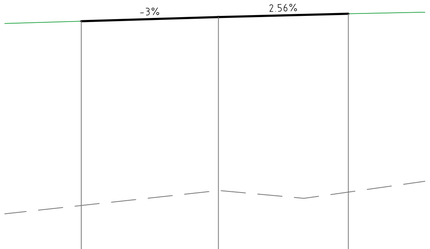



Centreline Data
X = 321133.818
Y = 6257189.942
Z = 33.306

DATUM RL 26.0

| | | | | | | |
|---|---|---|---|---|---|---|
| FINISHED SURFACE | 33.125 | 33.306 | 33.435 | | | |
| EXISTING SURFACE | 26.895 | 27.810 | 28.096 | | | |
| OFFSET | -6.015 | 0.000 | 6.466 | | | |

CHAINAGE 200.000




Centreline Data
X = 321136.485
Y = 6257180.304
Z = 32.818

DATUM RL 25.0

| | | | | | | |
|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.683 | 32.818 | 32.927 | | | |
| EXISTING SURFACE | 26.668 | 27.156 | 27.106 | | | |
| OFFSET | -4.476 | 0.000 | 4.243 | | | |

CHAINAGE 210.000

MC02

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

CROSS SECTIONS SHEET 09

JOB NUMBER 150077-60
DRAWING NUMBER C04.89
REVISION 03
DRAWING SHEET SIZE = A1

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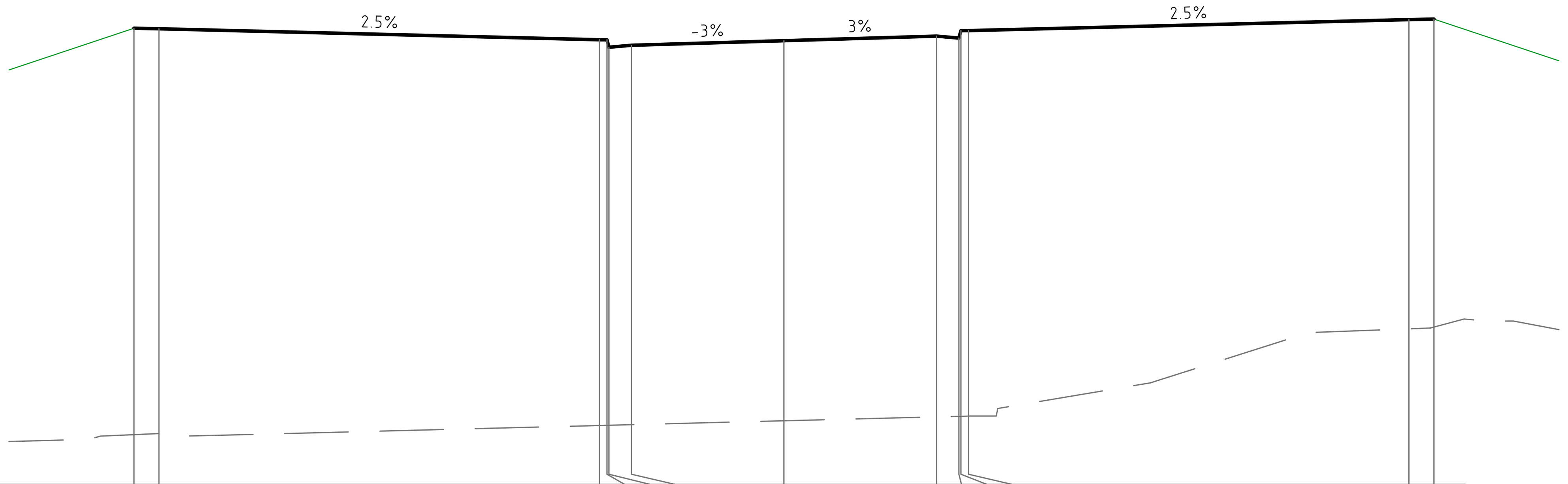
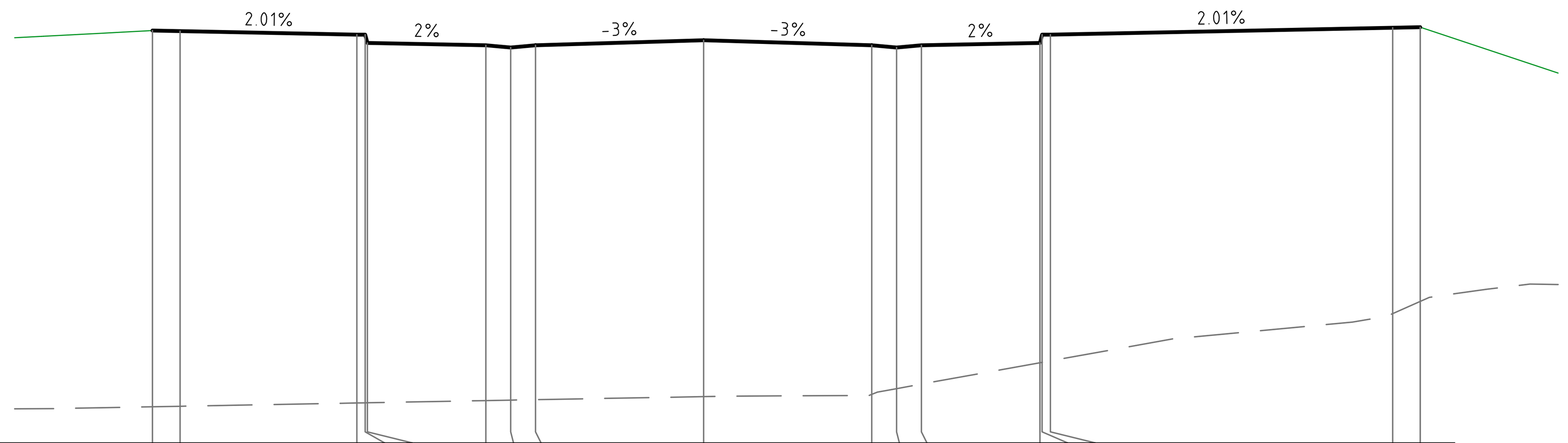



Centreline Data
X = 321147.982
Y = 6257141.992
Z = 30.866

DATUM RL 22.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.114 | 31.104 | 30.884 | 30.884 | 30.734 | 30.774 | 30.866 | 30.957 | 30.917 | 31.067 | 31.067 | 31.287 | 31.297 |
| EXISTING SURFACE | 22.992 | 23.014 | 23.175 | 23.178 | 23.180 | 23.191 | 23.269 | 23.347 | 23.358 | 23.359 | 23.363 | 25.107 | 25.141 |
| OFFSET | -13.000 | -12.500 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 12.500 | 13.000 |

CHAINAGE 250.000

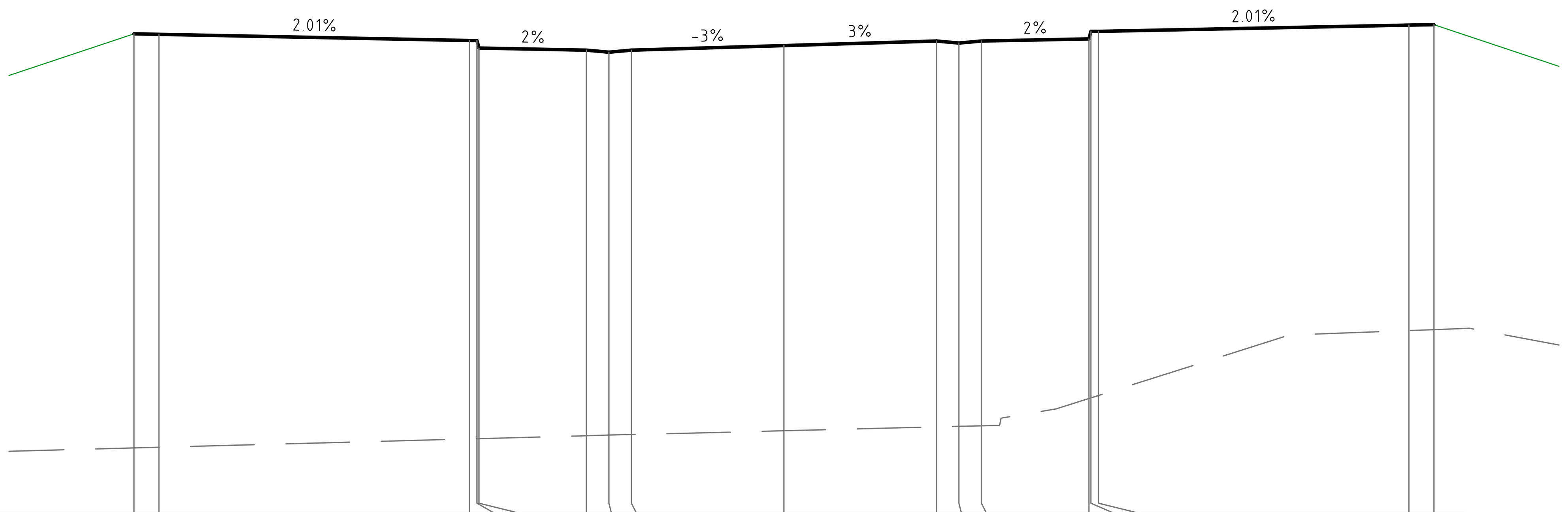



Centreline Data
X = 321171.105
Y = 6257065.407
Z = 28.311

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.487 | 28.477 | 28.413 | 28.413 | 28.263 | 28.220 | 28.180 | 28.220 | 28.311 | 28.220 | 28.180 | 28.220 | 28.263 | 28.413 | 28.413 | 28.538 | 28.548 |
| EXISTING SURFACE | 21.655 | 21.664 | 21.724 | 21.727 | 21.727 | 21.767 | 21.776 | 21.784 | 21.839 | 21.880 | 21.984 | 22.066 | 22.454 | 22.461 | 22.488 | 23.347 | 23.569 |
| OFFSET | -9.998 | -9.498 | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | 12.500 | 13.000 |

CHAINAGE 330.000

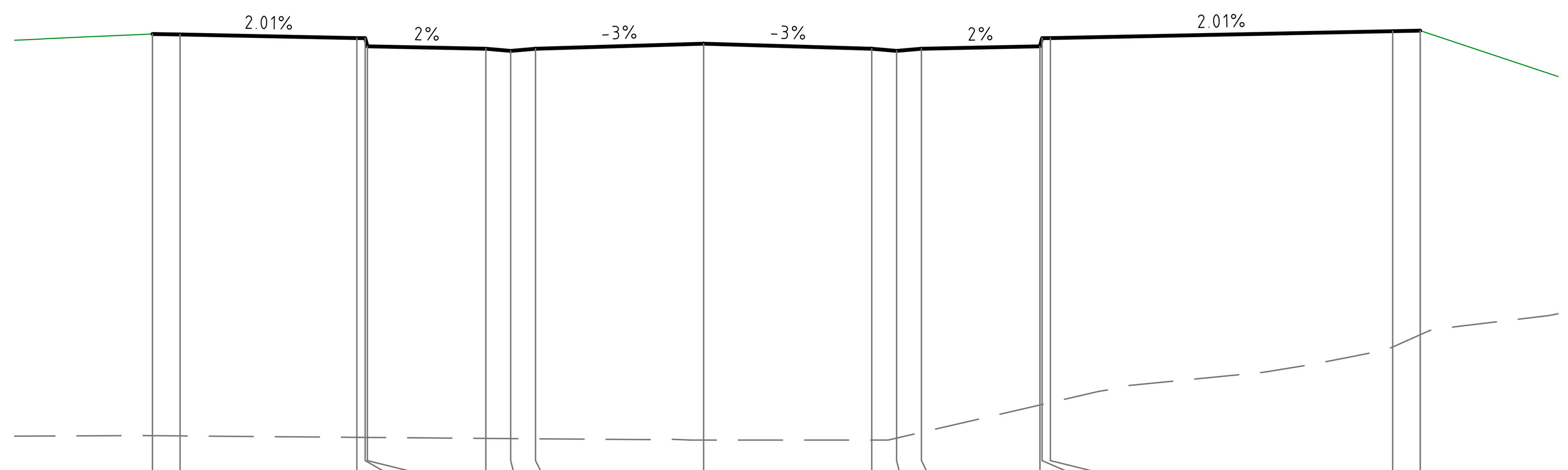



Centreline Data
X = 321145.092
Y = 6257151.566
Z = 31.354

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.590 | 31.580 | 31.455 | 31.455 | 31.305 | 31.262 | 31.222 | 31.262 | 31.354 | 31.445 | 31.405 | 31.445 | 31.488 | 31.638 | 31.638 | 31.763 | 31.773 |
| EXISTING SURFACE | 23.306 | 23.319 | 23.486 | 23.490 | 23.491 | 23.550 | 23.564 | 23.576 | 23.649 | 23.728 | 23.738 | 23.748 | 24.295 | 24.308 | 24.355 | 25.654 | 25.672 |
| OFFSET | -13.000 | -12.500 | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | 12.500 | 13.000 |

CHAINAGE 240.000

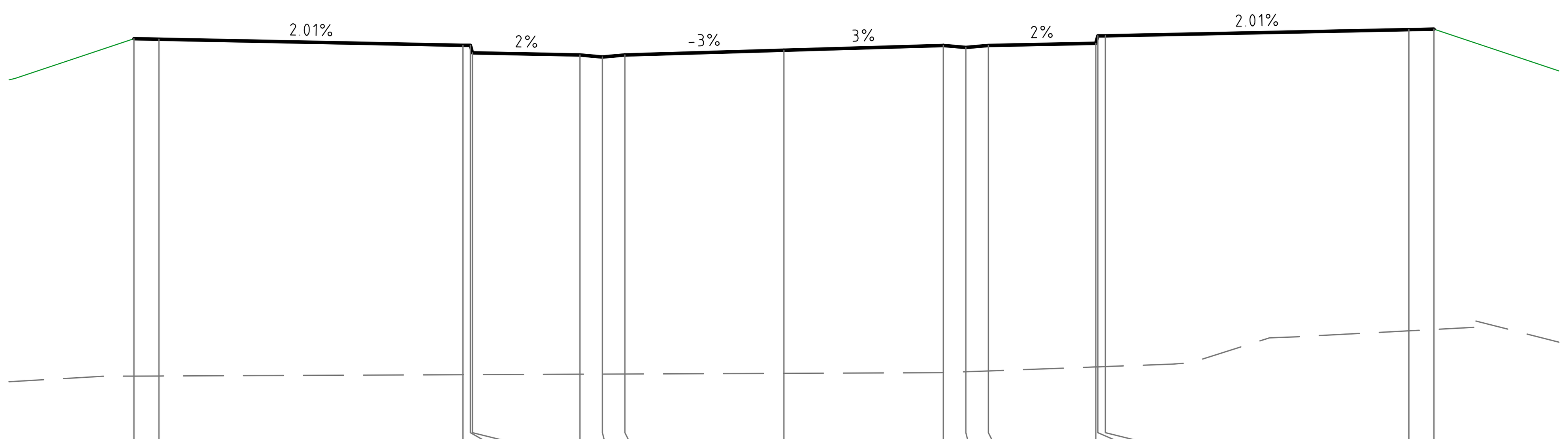



Centreline Data
X = 321168.214
Y = 6257074.980
Z = 28.765

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.941 | 28.931 | 28.866 | 28.866 | 28.716 | 28.673 | 28.633 | 28.673 | 28.765 | 28.673 | 28.633 | 28.673 | 28.716 | 28.866 | 28.866 | 28.991 | 29.001 |
| EXISTING SURFACE | 21.652 | 21.648 | 21.622 | 21.621 | 21.621 | 21.603 | 21.600 | 21.596 | 21.573 | 21.573 | 21.609 | 21.713 | 22.210 | 22.219 | 22.254 | 23.262 | 23.484 |
| OFFSET | -9.998 | -9.498 | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | 12.500 | 13.000 |

CHAINAGE 320.000

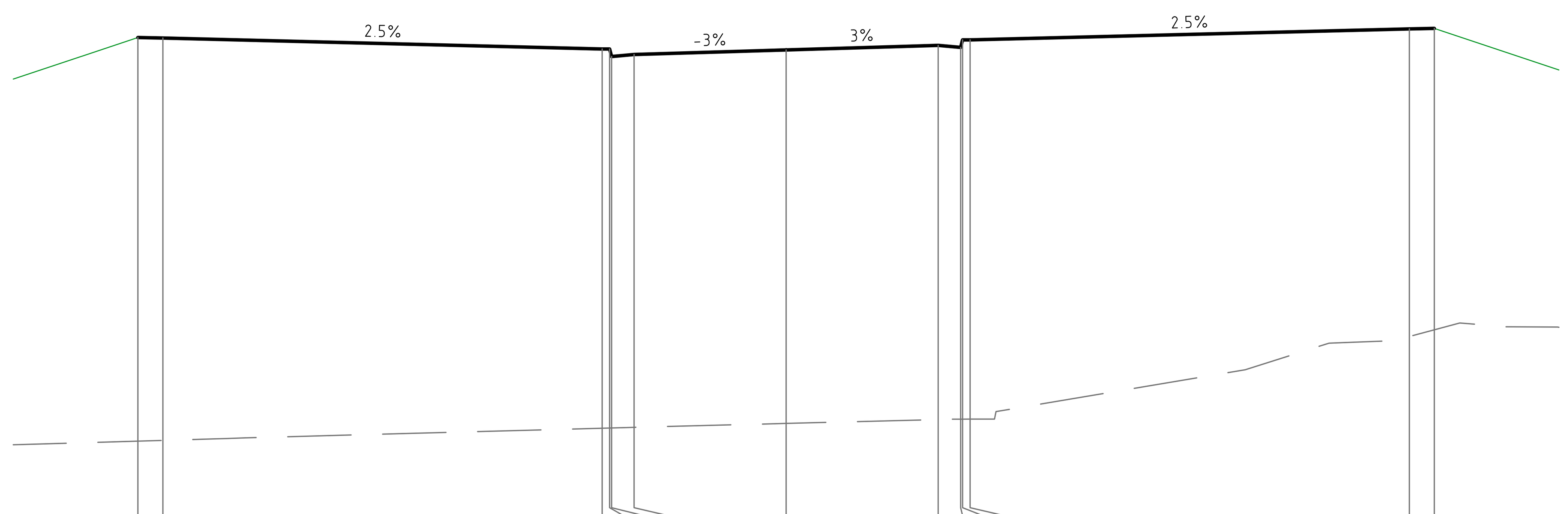



Centreline Data
X = 321142.201
Y = 6257161.139
Z = 31.842

DATUM RL 24.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.072 | 32.062 | 31.939 | 31.939 | 31.789 | 31.746 | 31.706 | 31.746 | 31.842 | 31.937 | 31.897 | 31.937 | 31.980 | 32.130 | 32.130 | 32.253 | 32.263 |
| EXISTING SURFACE | 25.330 | 25.332 | 25.358 | 25.358 | 25.359 | 25.368 | 25.370 | 25.372 | 25.385 | 25.400 | 25.417 | 25.433 | 25.513 | 25.515 | 25.520 | 26.235 | 26.262 |
| OFFSET | -13.000 | -12.500 | -6.421 | -6.271 | -6.231 | -4.081 | -3.631 | -3.181 | 0.000 | 3.188 | 3.638 | 4.088 | 6.238 | 6.278 | 6.428 | 12.500 | 13.000 |

CHAINAGE 230.000




Centreline Data
X = 321150.872
Y = 6257132.419
Z = 30.378

DATUM RL 21.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.626 | 30.616 | 30.396 | 30.396 | 30.246 | 30.286 | 30.378 | 30.469 | 30.429 | 30.579 | 30.579 | 30.799 | 30.809 |
| EXISTING SURFACE | 22.535 | 22.549 | 22.793 | 22.797 | 22.798 | 22.810 | 22.889 | 22.967 | 22.975 | 22.975 | 22.975 | 24.633 | 24.766 |
| OFFSET | -13.000 | -12.500 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 12.500 | 13.000 |

CHAINAGE 260.000

MC02

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT

SEKISUI HOUSE

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

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SCALE 1:100 @ A1 (0 1 2 3 4 5m)
SCALE 1:100 @ A1 (0 1 2 3 4 5m)

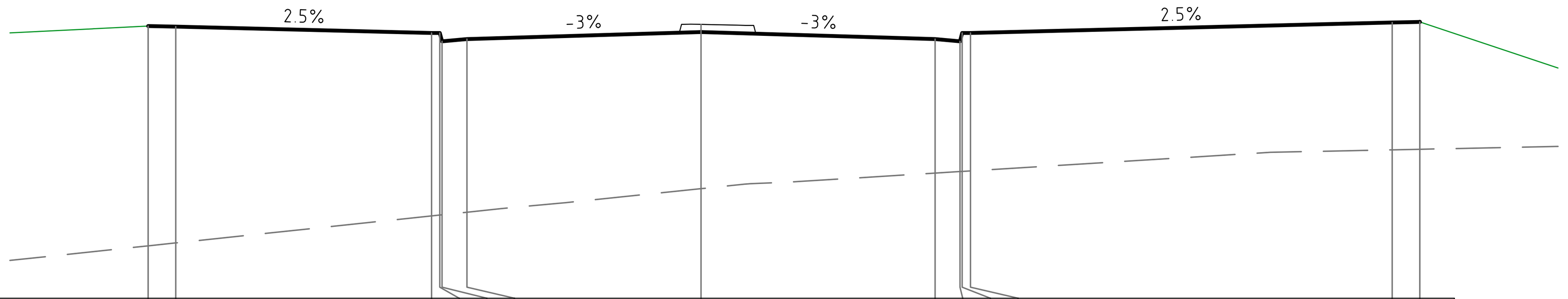
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 10

JOB NUMBER 150077-60
DRAWING NUMBER C04.90
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

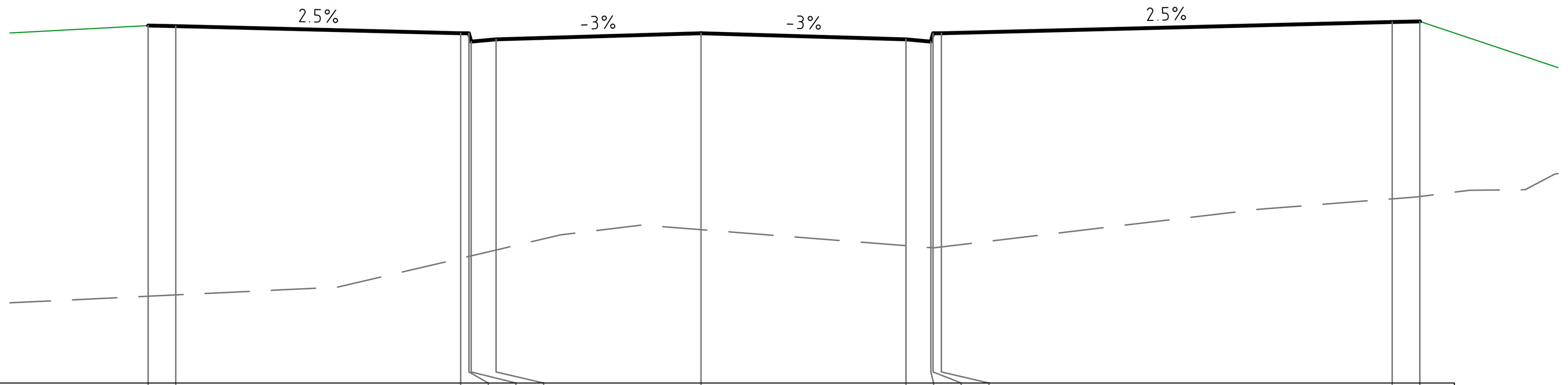



Centreline Data
X = 321179.776
Y = 6257036.687
Z = 26.811

DATUM RL 22.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.920 | 26.910 | 26.794 | 26.794 | 26.644 | 26.684 | 26.811 | 26.684 | 26.644 | 26.794 | 26.794 | 26.985 | 26.995 |
| EXISTING SURFACE | 22.947 | 23.000 | 23.488 | 23.503 | 23.507 | 23.555 | 23.980 | 24.262 | 24.290 | 24.292 | 24.302 | 24.682 | 24.693 |
| OFFSET | -9.998 | -9.498 | -4.874 | -4.724 | -4.684 | -4.234 | 0.000 | 4.234 | 4.684 | 4.724 | 4.874 | 12.500 | 13.000 |

CHAINAGE 360.000

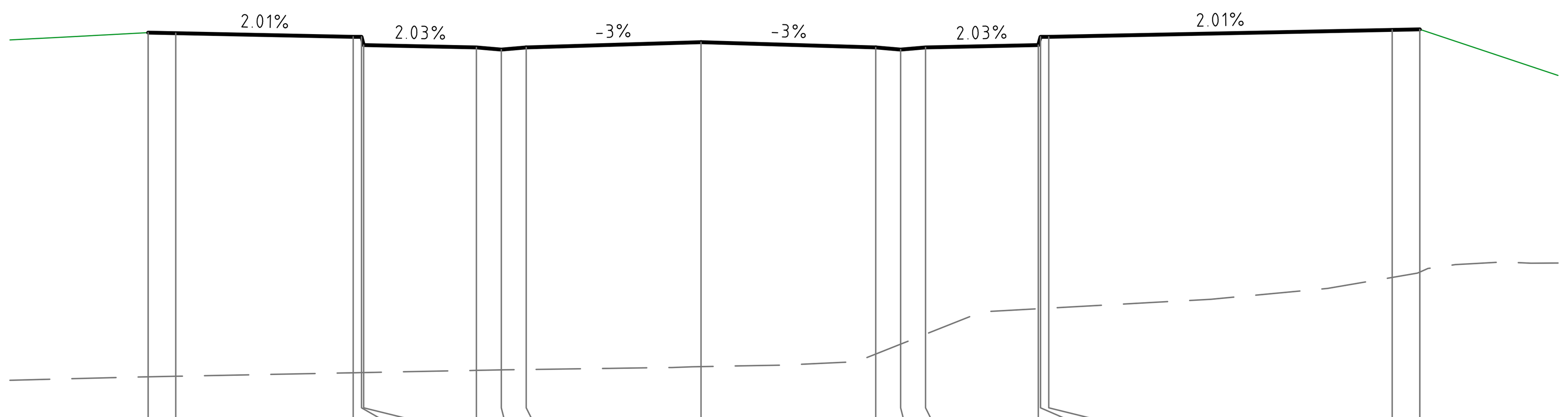



Centreline Data
X = 321176.885
Y = 6257046.260
Z = 27.311

DATUM RL 21.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.449 | 27.439 | 27.310 | 27.310 | 27.160 | 27.200 | 27.311 | 27.200 | 27.160 | 27.310 | 27.310 | 27.514 | 27.524 |
| EXISTING SURFACE | 22.566 | 22.590 | 23.250 | 23.285 | 23.294 | 23.399 | 23.767 | 23.477 | 23.442 | 23.439 | 23.456 | 24.323 | 24.365 |
| OFFSET | -9.998 | -9.498 | -4.347 | -4.197 | -4.157 | -3.707 | 0.000 | 3.707 | 4.157 | 4.197 | 4.347 | 12.500 | 13.000 |

CHAINAGE 350.000




Centreline Data
X = 321173.995
Y = 6257055.834
Z = 27.811

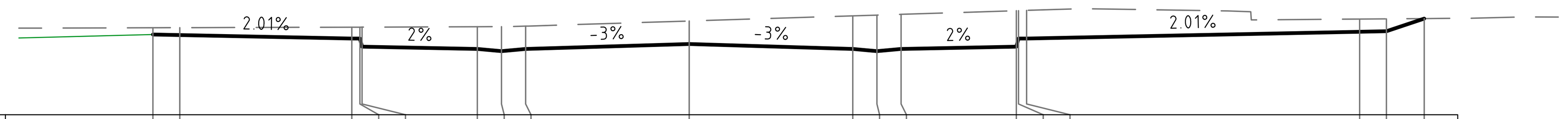
DATUM RL 21.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.983 | 27.973 | 27.908 | 27.908 | 27.758 | 27.716 | 27.676 | 27.716 | 27.811 | 27.716 | 27.676 | 27.716 | 27.758 | 27.908 | 27.908 | 28.033 | 28.043 |
| EXISTING SURFACE | 21.761 | 21.770 | 21.833 | 21.836 | 21.837 | 21.877 | 21.886 | 21.892 | 21.945 | 22.173 | 22.352 | 22.531 | 22.991 | 22.994 | 23.002 | 23.557 | 23.654 |
| OFFSET | -9.998 | -9.498 | -6.290 | -6.140 | -6.100 | -4.061 | -3.611 | -3.161 | 0.000 | 3.161 | 3.611 | 4.061 | 6.100 | 6.140 | 6.290 | 12.500 | 13.000 |

CHAINAGE 340.000

Centreline Data
X = 321194.227
Y = 6256988.821
Z = 24.311

DATUM RL 23.0

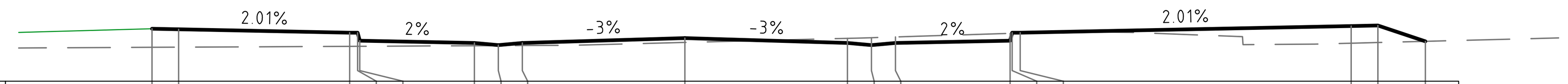



| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.487 | 24.477 | 24.413 | 24.413 | 24.263 | 24.220 | 24.180 | 24.220 | 24.311 | 24.220 | 24.180 | 24.220 | 24.263 | 24.413 | 24.413 | 24.538 | 24.548 | 24.782 |
| EXISTING SURFACE | 24.612 | 24.614 | 24.623 | 24.623 | 24.623 | 24.631 | 24.634 | 24.642 | 24.737 | 24.833 | 24.847 | 24.861 | 24.928 | 24.930 | 24.934 | 24.773 | 24.777 | 24.782 |
| OFFSET | -9.998 | -9.498 | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | 12.500 | 13.000 | 13.704 |

CHAINAGE 410.000

Centreline Data
X = 321191.337
Y = 6256998.395
Z = 24.811

DATUM RL 24.0

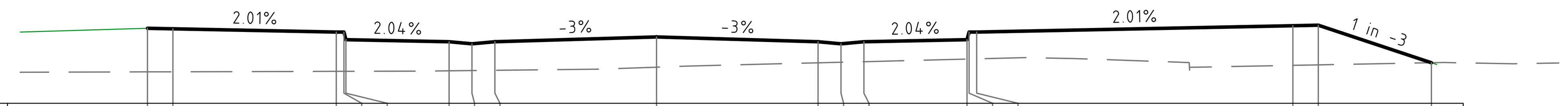



| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.987 | 24.977 | 24.913 | 24.913 | 24.763 | 24.720 | 24.680 | 24.720 | 24.811 | 24.720 | 24.680 | 24.720 | 24.763 | 24.913 | 24.913 | 25.038 | 25.048 | 24.751 |
| EXISTING SURFACE | 24.638 | 24.641 | 24.656 | 24.657 | 24.657 | 24.667 | 24.670 | 24.672 | 24.730 | 24.807 | 24.819 | 24.833 | 24.900 | 24.902 | 24.906 | 24.716 | 24.728 | 24.751 |
| OFFSET | -9.998 | -9.498 | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | 12.500 | 13.000 | 13.891 |

CHAINAGE 400.000

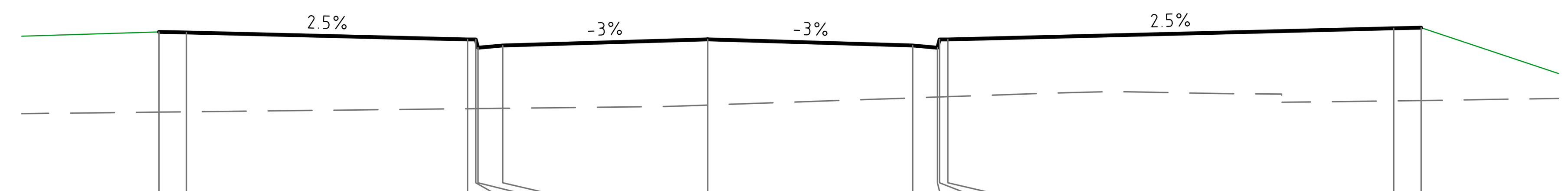
Centreline Data
X = 321188.447
Y = 6257007.968
Z = 25.311

DATUM RL 24.0




| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.482 | 25.472 | 25.407 | 25.407 | 25.257 | 25.216 | 25.176 | 25.216 | 25.311 | 25.216 | 25.176 | 25.216 | 25.257 | 25.407 | 25.407 | 25.532 | 25.542 | 24.802 |
| EXISTING SURFACE | 24.621 | 24.623 | 24.632 | 24.632 | 24.632 | 24.642 | 24.647 | 24.652 | 24.714 | 24.800 | 24.811 | 24.822 | 24.873 | 24.874 | 24.878 | 24.750 | 24.759 | 24.802 |
| OFFSET | -9.998 | -9.498 | -6.290 | -6.140 | -6.100 | -4.074 | -3.624 | -3.174 | 0.000 | 3.174 | 3.624 | 4.074 | 6.100 | 6.140 | 6.290 | 12.500 | 13.000 | 15.222 |

CHAINAGE 390.000

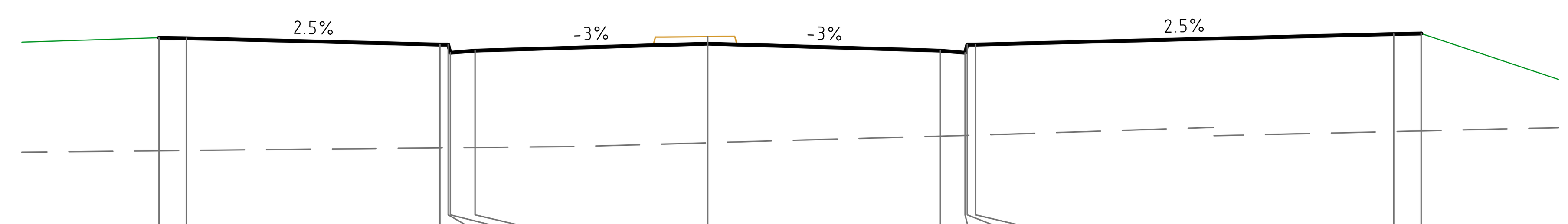



Centreline Data
X = 321185.556
Y = 6257017.541
Z = 25.811

DATUM RL 23.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.947 | 25.937 | 25.809 | 25.809 | 25.659 | 25.699 | 25.811 | 25.699 | 25.659 | 25.809 | 25.809 | 26.012 | 26.022 |
| EXISTING SURFACE | 24.487 | 24.492 | 24.549 | 24.550 | 24.551 | 24.556 | 24.615 | 24.745 | 24.761 | 24.762 | 24.768 | 24.690 | 24.696 |
| OFFSET | -9.998 | -9.498 | -4.376 | -4.226 | -4.186 | -3.736 | 0.000 | 3.736 | 4.186 | 4.226 | 4.376 | 12.500 | 13.000 |

CHAINAGE 380.000




Centreline Data
X = 321182.666
Y = 6257027.114
Z = 26.311

DATUM RL 23.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.420 | 26.410 | 26.294 | 26.294 | 26.144 | 26.184 | 26.311 | 26.184 | 26.144 | 26.294 | 26.294 | 26.485 | 26.495 |
| EXISTING SURFACE | 24.363 | 24.368 | 24.416 | 24.418 | 24.418 | 24.423 | 24.509 | 24.629 | 24.642 | 24.643 | 24.647 | 24.713 | 24.725 |
| OFFSET | -9.998 | -9.498 | -4.880 | -4.730 | -4.690 | -4.240 | 0.000 | 4.240 | 4.690 | 4.730 | 4.880 | 12.500 | 13.000 |

CHAINAGE 370.000

MC02

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA  DESIGNED: A.RIVETT  JOB MANAGER: P.SUTTON  VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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SCALE 1:100 @ A1  0 1 2 3 4 5m
SCALE 1:100 @ A1  0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 11

JOB NUMBER 150077-60
DRAWING NUMBER C04.91
REVISION 03
DRAWING SHEET SIZE = A1

Centreline Data
X = 321205.788
Y = 6256950.529
Z = 22.311

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.485 | 22.475 | | | | | | | 22.330 | 22.330 | 22.180 | 22.220 | | | | 22.311 | | | | 22.220 | | | |
| EXISTING SURFACE | 24.472 | 24.475 | | | | | | | 24.517 | 24.518 | 24.518 | 24.521 | | | | 24.543 | | | | 24.565 | | | |
| OFFSET | -9.998 | -9.498 | | | | | | | -3.690 | -3.540 | -3.500 | -3.050 | | | | 0.000 | | | | 3.050 | | | |

CHAINAGE 450.000

Centreline Data
X = 321202.898
Y = 6256960.102
Z = 22.811

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.985 | 22.975 | | | | | | | 22.830 | 22.830 | 22.680 | 22.720 | | | | 22.811 | | | | 22.720 | | | |
| EXISTING SURFACE | 24.533 | 24.539 | | | | | | | 24.532 | 24.528 | 24.527 | 24.516 | | | | 24.410 | | | | 24.301 | | | |
| OFFSET | -9.998 | -9.498 | | | | | | | -3.690 | -3.540 | -3.500 | -3.050 | | | | 0.000 | | | | 3.050 | | | |

CHAINAGE 440.000

Centreline Data
X = 321200.008
Y = 6256969.675
Z = 23.311

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.485 | 23.475 | | | | | | | 23.330 | 23.330 | 23.180 | 23.220 | | | | 23.311 | | | | 23.220 | | | |
| EXISTING SURFACE | 24.603 | 24.604 | | | | | | | 24.622 | 24.623 | 24.623 | 24.624 | | | | 24.549 | | | | 24.469 | | | |
| OFFSET | -9.998 | -9.498 | | | | | | | -3.690 | -3.540 | -3.500 | -3.050 | | | | 0.000 | | | | 3.050 | | | |

CHAINAGE 430.000

Centreline Data
X = 321197.118
Y = 6256979.248
Z = 23.811

DATUM RL 23.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.987 | 23.977 | | | 23.913 | 23.913 | 23.763 | 23.720 | 23.680 | 23.720 | | | 23.811 | | | 23.720 | 23.680 | 23.720 | 23.763 | 23.913 | 23.913 | | 24.038 | 24.048 | | 24.737 |
| EXISTING SURFACE | 24.616 | 24.618 | | | 24.630 | 24.630 | 24.631 | 24.639 | 24.640 | 24.642 | | | 24.725 | | | 24.782 | 24.774 | 24.766 | 24.728 | 24.727 | 24.725 | | 24.785 | 24.776 | | 24.737 |
| OFFSET | -9.998 | -9.498 | | | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | | 12.500 | 13.000 | | 15.068 |

CHAINAGE 420.000

Centreline Data
X = 321217.350
Y = 6256912.236
Z = 20.407

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.756 | 20.746 | | | 20.682 | 20.682 | 20.532 | 20.489 | 20.449 | 20.489 | | | 20.407 | | | 20.315 | 20.275 | 20.315 | 20.358 | 20.508 | 20.508 | | 20.634 | 20.644 | | |
| EXISTING SURFACE | 23.237 | 23.227 | | | 23.193 | 23.195 | 23.195 | 23.156 | 23.161 | 23.206 | | | 23.200 | | | 22.900 | 22.853 | 22.806 | 22.582 | 22.578 | 22.562 | | 21.971 | 21.966 | | |
| OFFSET | -9.998 | -9.498 | | | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.056 | 3.506 | 3.956 | 6.100 | 6.140 | 6.290 | | 12.500 | 13.000 | | |

CHAINAGE 490.000

Centreline Data
X = 321214.459
Y = 6256921.809
Z = 20.819

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 21.119 | 21.109 | | | 21.045 | 21.045 | 20.895 | 20.852 | 20.812 | 20.852 | | | 20.819 | | | 20.727 | 20.687 | 20.727 | 20.770 | 20.920 | 20.920 | | 21.045 | 21.055 | | 22.805 |
| EXISTING SURFACE | 23.178 | 23.178 | | | 23.199 | 23.196 | 23.195 | 23.170 | 23.167 | 23.178 | | | 23.172 | | | 23.166 | 23.165 | 23.164 | 22.961 | 22.957 | 22.941 | | 22.947 | 22.934 | | 22.805 |
| OFFSET | -9.998 | -9.498 | | | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | | 12.500 | 13.000 | | 18.248 |

CHAINAGE 480.000

Centreline Data
X = 321211.569
Y = 6256931.382
Z = 21.311

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 21.563 | 21.553 | | | 21.489 | 21.489 | 21.339 | 21.296 | 21.256 | 21.296 | | | 21.311 | | | 21.220 | 21.180 | 21.220 | 21.263 | 21.413 | 21.413 | | 21.538 | 21.548 | | 23.138 |
| EXISTING SURFACE | 23.092 | 23.086 | | | 23.070 | 23.069 | 23.069 | 23.070 | 23.086 | 23.083 | | | 23.011 | | | 23.077 | 23.081 | 23.085 | 23.104 | 23.105 | 23.106 | | 23.118 | 23.124 | | 23.138 |
| OFFSET | -9.998 | -9.498 | | | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | | 12.500 | 13.000 | | 17.769 |

CHAINAGE 470.000

Centreline Data
X = 321208.679
Y = 6256940.955
Z = 21.811

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.015 | 22.005 | | | 21.940 | 21.940 | 21.790 | 21.747 | 21.707 | 21.747 | | | 21.811 | | | 21.720 | 21.680 | 21.720 | 21.763 | 21.913 | 21.913 | | 22.038 | 22.048 | | 23.890 |
| EXISTING SURFACE | 23.232 | 23.235 | | | 23.252 | 23.253 | 23.253 | 23.260 | 23.262 | 23.264 | | | 23.303 | | | 23.332 | 23.332 | 23.333 | 23.334 | 23.334 | 23.334 | | 23.587 | 23.608 | | 23.890 |
| OFFSET | -9.998 | -9.498 | | | -6.290 | -6.140 | -6.100 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 6.100 | 6.140 | 6.290 | | 12.500 | 13.000 | | 18.526 |

CHAINAGE 460.000

DESIGNED: A.RIVETT
DRAWN: B.MAZZA
JOB MANAGER: P.SUTTON
VERIFIER: -

MC02

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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ARCHITECT
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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

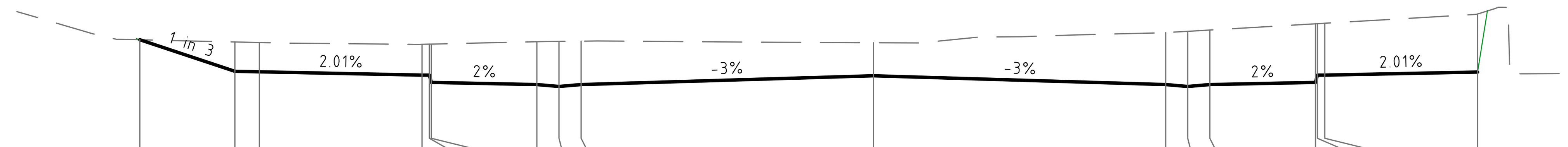
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 12

JOB NUMBER 150077-60
DRAWING NUMBER C04.92
REVISION 03
DRAWING SHEET SIZE = A1

Centreline Data
X = 321254.924
Y = 6256787.784
Z = 13.476

DATUM RL 12.0

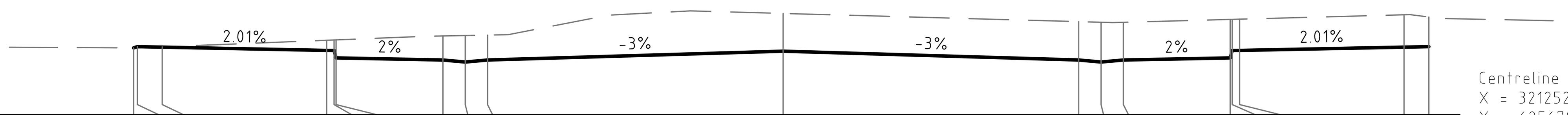



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 14.212 | 13.567 | 13.557 | 13.490 | 13.490 | 13.340 | 13.297 | 13.257 | 13.297 | 13.476 | 13.297 | 13.257 | 13.297 | 13.340 | 13.490 | 13.490 | 13.553 |
| EXISTING SURFACE | 14.212 | 14.166 | 14.155 | 14.119 | 14.122 | 14.123 | 14.172 | 14.178 | 14.184 | 14.151 | 14.358 | 14.385 | 14.411 | 14.538 | 14.540 | 14.549 | 14.738 |
| OFFSET | -14.935 | -13.000 | -12.500 | -9.190 | -9.040 | -9.000 | -6.850 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.850 | 9.000 | 9.040 | 9.190 | 12.300 |

CHAINAGE 620.000

Centreline Data
X = 321243.363
Y = 6256826.077
Z = 16.277

DATUM RL 15.0

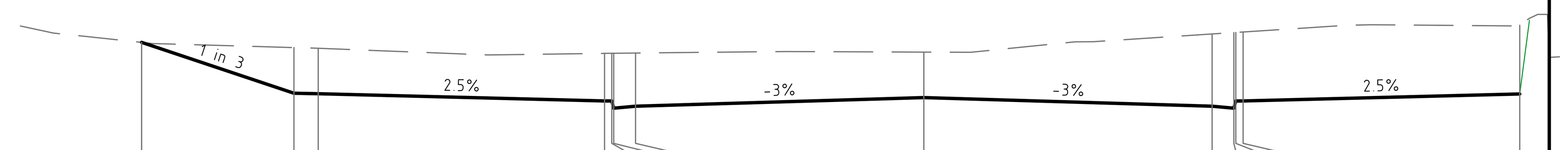



| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.342 | 16.368 | 16.358 | 16.291 | 16.291 | 16.141 | 16.098 | 16.058 | 16.098 | 16.277 | 16.098 | 16.058 | 16.098 | 16.141 | 16.291 | 16.291 | 16.358 | 16.368 |
| EXISTING SURFACE | 16.342 | 16.343 | 16.363 | 16.496 | 16.502 | 16.503 | 16.582 | 16.591 | 16.600 | 17.036 | 16.871 | 16.858 | 16.858 | 16.915 | 16.916 | 16.920 | 17.009 | 16.964 |
| OFFSET | -13.077 | -13.000 | -12.500 | -9.190 | -9.040 | -9.000 | -6.850 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.850 | 9.000 | 9.040 | 9.190 | 12.500 | 13.000 |

CHAINAGE 580.000

Centreline Data
X = 321252.034
Y = 6256797.357
Z = 14.143

DATUM RL 13.0

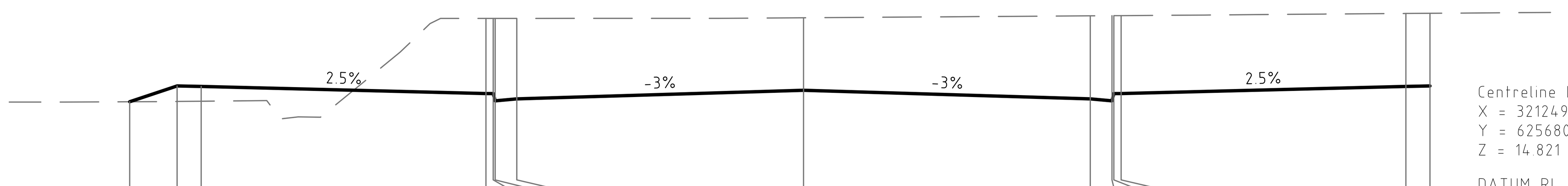



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.280 | 14.232 | 14.222 | 14.074 | 14.074 | 13.924 | 13.964 | 14.143 | 13.964 | 13.924 | 14.074 | 14.074 | 14.217 |
| EXISTING SURFACE | 15.280 | 15.173 | 15.158 | 15.053 | 15.055 | 15.055 | 15.060 | 15.079 | 15.453 | 15.482 | 15.485 | 15.494 | 15.633 |
| OFFSET | -16.146 | -13.000 | -12.500 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.440 | 6.590 | 12.300 |

CHAINAGE 610.000

Centreline Data
X = 321240.472
Y = 6256835.650
Z = 17.054

DATUM RL 15.0

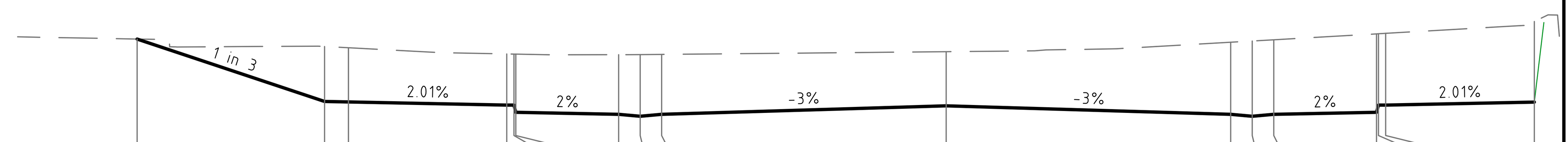



| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.816 | 17.143 | 17.133 | 16.986 | 16.986 | 16.836 | 16.876 | 17.054 | 16.876 | 16.836 | 16.986 | 16.986 | 17.133 | 17.143 |
| EXISTING SURFACE | 16.816 | 16.822 | 16.827 | 18.541 | 18.541 | 18.541 | 18.541 | 18.554 | 18.594 | 18.597 | 18.597 | 18.598 | 18.643 | 18.646 |
| OFFSET | -13.983 | -13.000 | -12.500 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.440 | 6.590 | 12.500 | 13.000 |

CHAINAGE 570.000

Centreline Data
X = 321249.143
Y = 6256806.931
Z = 14.821

DATUM RL 14.0

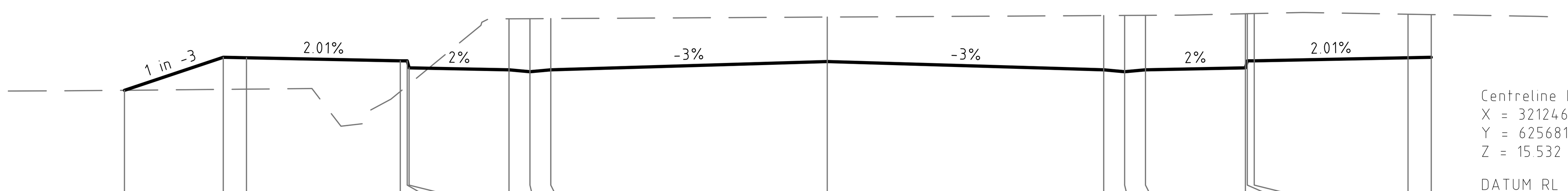



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.219 | 14.912 | 14.902 | 14.836 | 14.836 | 14.686 | 14.643 | 14.603 | 14.643 | 14.821 | 14.643 | 14.603 | 14.643 | 14.686 | 14.836 | 14.836 | 14.898 |
| EXISTING SURFACE | 16.219 | 16.062 | 16.036 | 15.907 | 15.904 | 15.903 | 15.891 | 15.892 | 15.897 | 15.954 | 16.152 | 16.178 | 16.203 | 16.327 | 16.329 | 16.337 | 16.586 |
| OFFSET | -16.919 | -13.000 | -12.500 | -9.190 | -9.040 | -9.000 | -6.850 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.850 | 9.000 | 9.040 | 9.190 | 12.300 |

CHAINAGE 600.000

Centreline Data
X = 321237.582
Y = 6256845.223
Z = 17.854

DATUM RL 15.0

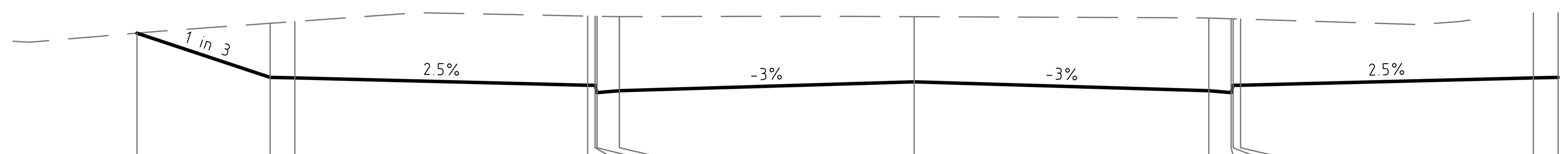



| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.236 | 17.945 | 17.935 | 17.868 | 17.868 | 17.718 | 17.675 | 17.635 | 17.675 | 17.854 | 17.675 | 17.635 | 17.675 | 17.718 | 17.868 | 17.868 | 17.935 | 17.945 |
| EXISTING SURFACE | 17.236 | 17.256 | 17.260 | 17.210 | 17.333 | 17.366 | 18.771 | 18.774 | 18.776 | 18.808 | 18.841 | 18.843 | 18.846 | 18.880 | 18.881 | 18.884 | 18.870 | 18.861 |
| OFFSET | -15.127 | -13.000 | -12.500 | -9.190 | -9.040 | -9.000 | -6.850 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.850 | 9.000 | 9.040 | 9.190 | 12.500 | 13.000 |

CHAINAGE 560.000

Centreline Data
X = 321246.253
Y = 6256816.504
Z = 15.532

DATUM RL 14.0




| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.517 | 15.622 | 15.612 | 15.464 | 15.464 | 15.314 | 15.354 | 15.532 | 15.354 | 15.314 | 15.464 | 15.464 | 15.612 | 15.622 |
| EXISTING SURFACE | 16.517 | 16.716 | 16.752 | 16.862 | 16.859 | 16.858 | 16.851 | 16.850 | 16.822 | 16.808 | 16.807 | 16.802 | 16.923 | 16.930 |
| OFFSET | -15.687 | -13.000 | -12.500 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.440 | 6.590 | 12.500 | 13.000 |

CHAINAGE 590.000

MC02

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

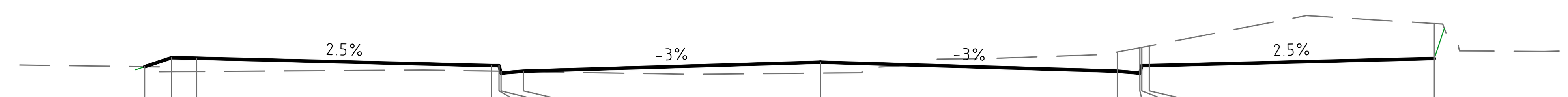
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 13

JOB NUMBER 150077-60
DRAWING NUMBER C04.93
REVISION 03
DRAWING SHEET SIZE = A1

Centreline Data
X = 321266.485
Y = 6256749.491
Z = 10.776

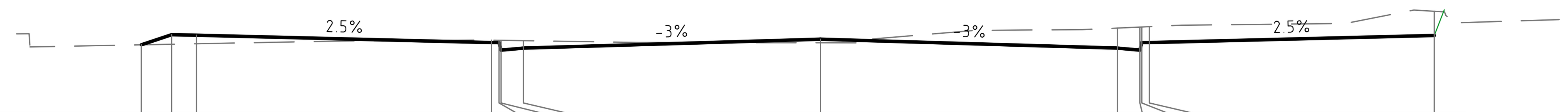



DATUM RL 10.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 10.685 | 10.865 | 10.855 | 10.707 | 10.707 | 10.557 | 10.597 | 10.776 | 10.597 | 10.557 | 10.707 | 10.707 | 10.850 |
| EXISTING SURFACE | 10.685 | 10.586 | 10.590 | 10.598 | 10.596 | 10.595 | 10.588 | 10.559 | 10.979 | 11.066 | 11.074 | 11.103 | 11.550 |
| OFFSET | -13.540 | -13.000 | -12.500 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.440 | 6.590 | 12.300 |

CHAINAGE 660.000

Centreline Data
X = 321263.595
Y = 6256759.065
Z = 11.474

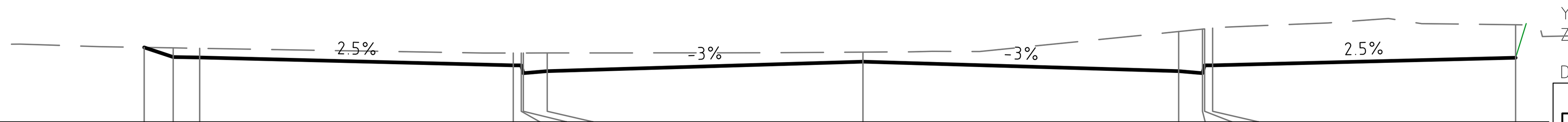



DATUM RL 10.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 11.361 | 11.563 | 11.553 | 11.406 | 11.406 | 11.256 | 11.296 | 11.474 | 11.296 | 11.256 | 11.406 | 11.406 | 11.548 |
| EXISTING SURFACE | 11.361 | 11.373 | 11.382 | 11.455 | 11.452 | 11.452 | 11.445 | 11.402 | 11.696 | 11.716 | 11.717 | 11.724 | 12.031 |
| OFFSET | -13.606 | -13.000 | -12.500 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.440 | 6.590 | 12.300 |

CHAINAGE 650.000

Centreline Data
X = 321260.705
Y = 6256768.638
Z = 12.141

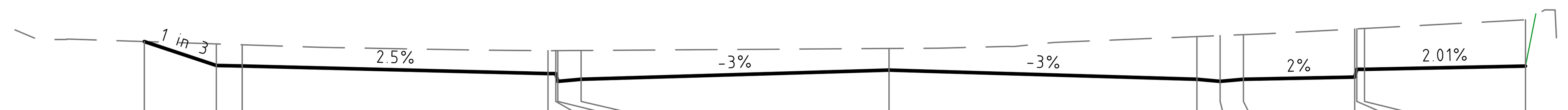



DATUM RL 11.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 12.413 | 12.231 | 12.221 | 12.073 | 12.073 | 11.923 | 11.963 | 12.141 | 11.963 | 11.923 | 12.073 | 12.073 | 12.216 |
| EXISTING SURFACE | 12.413 | 12.404 | 12.395 | 12.306 | 12.306 | 12.306 | 12.307 | 12.323 | 12.714 | 12.759 | 12.763 | 12.778 | 12.843 |
| OFFSET | -13.547 | -13.000 | -12.500 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.440 | 6.590 | 12.300 |

CHAINAGE 640.000

Centreline Data
X = 321257.814
Y = 6256778.211
Z = 12.808

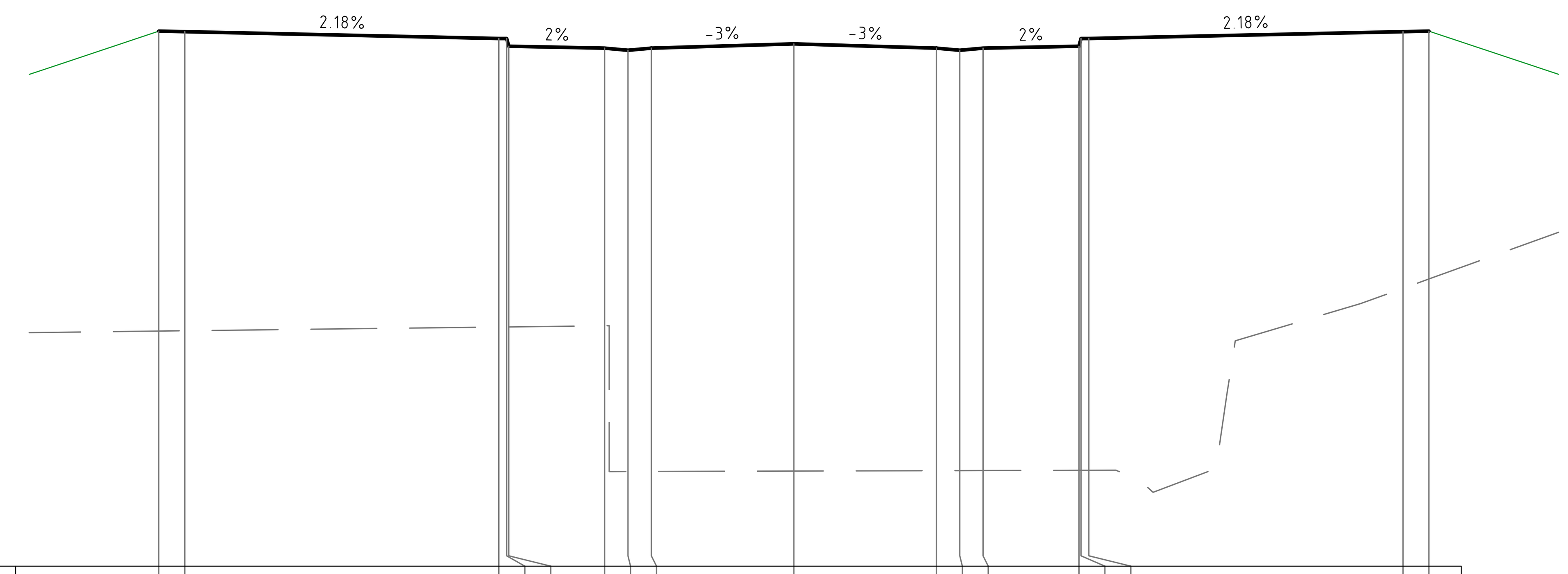



DATUM RL 12.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 13.361 | 12.898 | 12.888 | 12.740 | 12.740 | 12.590 | 12.630 | 12.808 | 12.630 | 12.590 | 12.630 | 12.673 | 12.823 | 12.823 | 12.886 |
| EXISTING SURFACE | 13.361 | 13.316 | 13.299 | 13.185 | 13.185 | 13.185 | 13.188 | 13.227 | 13.458 | 13.477 | 13.495 | 13.605 | 13.608 | 13.616 | 13.783 |
| OFFSET | -14.390 | -13.000 | -12.500 | -6.590 | -6.440 | -6.400 | -5.950 | 0.000 | 5.950 | 6.400 | 6.850 | 9.000 | 9.040 | 9.190 | 12.300 |

CHAINAGE 630.000

MC02

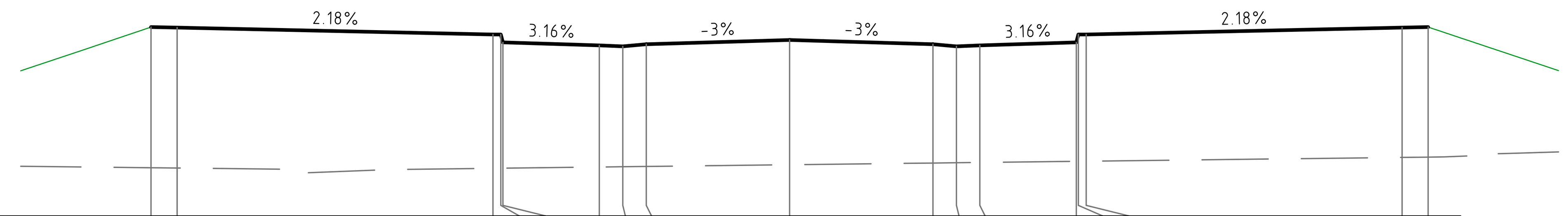



Centreline Data
X = 321263.486
Y = 6257284.801
Z = 30.082

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.328 | 30.318 | 30.186 | 30.186 | 30.036 | 29.999 | 29.959 | 29.999 | 30.082 | 29.999 | 29.959 | 29.999 | 30.036 | 30.186 | 30.186 | 30.318 | 30.328 |
| EXISTING SURFACE | 24.538 | 24.544 | 24.616 | 24.618 | 24.619 | 24.641 | 21.827 | 21.828 | 21.836 | 21.843 | 21.845 | 21.846 | 21.851 | 21.851 | 21.852 | 25.363 | 25.543 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 30.000

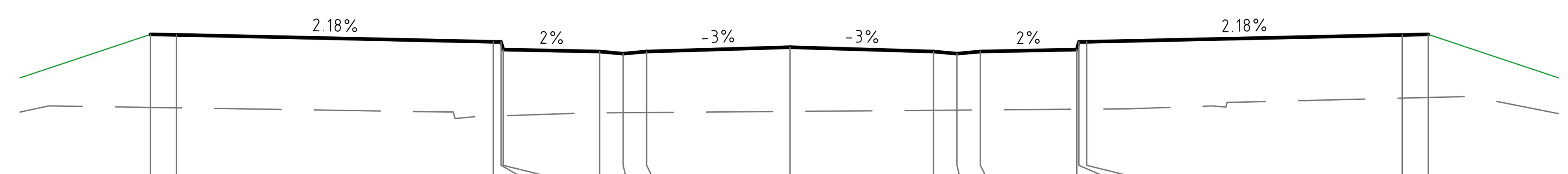



Centreline Data
X = 321261.393
Y = 6257291.733
Z = 30.366

DATUM RL 27.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.612 | 30.602 | 30.470 | 30.470 | 30.320 | 30.262 | 30.243 | 30.283 | 30.366 | 30.283 | 30.243 | 30.262 | 30.320 | 30.470 | 30.470 | 30.602 | 30.612 |
| EXISTING SURFACE | 27.921 | 27.916 | 27.910 | 27.912 | 27.912 | 27.934 | 27.940 | 27.945 | 27.978 | 28.011 | 28.016 | 28.021 | 28.044 | 28.044 | 28.046 | 28.118 | 28.124 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 22.759




Centreline Data
X = 321260.583
Y = 6257294.371
Z = 30.463

DATUM RL 28.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.710 | 30.700 | 30.568 | 30.568 | 30.418 | 30.381 | 30.341 | 30.381 | 30.463 | 30.381 | 30.341 | 30.381 | 30.418 | 30.568 | 30.568 | 30.700 | 30.710 |
| EXISTING SURFACE | 29.310 | 29.302 | 29.144 | 29.149 | 29.150 | 29.205 | 29.208 | 29.212 | 29.233 | 29.255 | 29.258 | 29.262 | 29.276 | 29.276 | 29.277 | 29.488 | 29.501 |
| OFFSET | -12.263 | -11.763 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.738 | 12.238 |

CHAINAGE 20.000

MC03

**NOT FOR CONSTRUCTION**

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

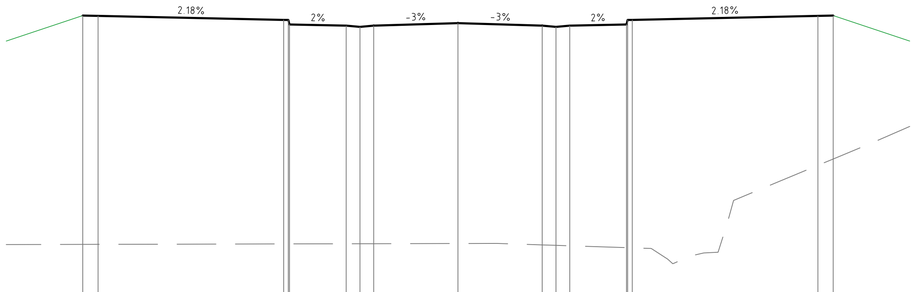
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 14

JOB NUMBER 150077-60
DRAWING NUMBER C04.94
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg




Centreline Data
X = 321269.266
Y = 6257265.655
Z = 29.122

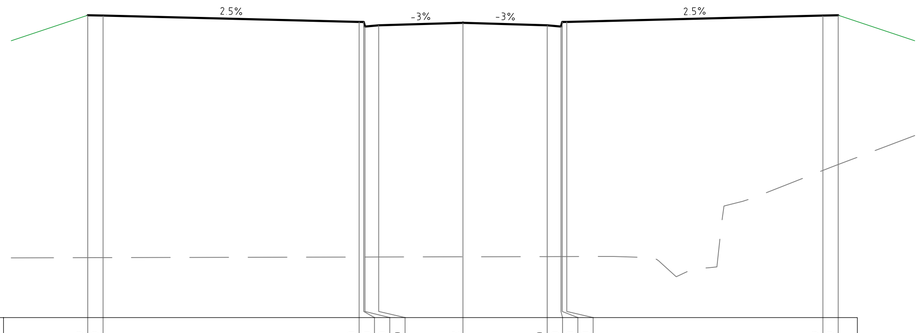
DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.369 | 29.359 | | | | | | 29.227 | 29.227 | 29.077 | | | | 29.040 | 29.040 | | | 29.122 | | | 29.040 | 29.040 | |
| EXISTING SURFACE | 21.900 | 21.901 | | | | | | 21.915 | 21.915 | 21.916 | | | | 21.920 | 21.921 | | | 21.928 | | | 21.883 | 21.868 | |
| OFFSET | -12.250 | -11.750 | | | | | | -5.690 | -5.540 | -5.500 | | | | -3.650 | -3.200 | | | -2.750 | | | 0.000 | 2.750 | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| EXISTING SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| OFFSET | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.359 | 29.369 | | | | | | 29.077 | 29.227 | 29.227 | | | | 29.040 | 29.000 | | | 29.122 | | | 29.040 | 29.040 | |
| EXISTING SURFACE | 21.901 | 21.900 | | | | | | 21.916 | 21.915 | 21.915 | | | | 21.922 | 21.921 | | | 21.928 | | | 21.854 | 21.868 | |
| OFFSET | -11.750 | -12.250 | | | | | | -5.500 | -5.540 | -5.690 | | | | -2.750 | -3.200 | | | 0.000 | | | 3.650 | 3.200 | |

CHAINAGE 50.000

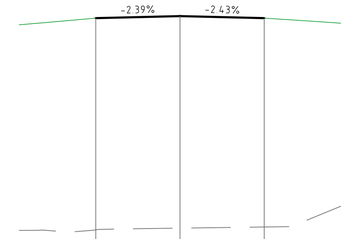



Centreline Data
X = 321266.376
Y = 6257275.228
Z = 29.622

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.869 | 29.859 | | | | | | 29.650 | 29.650 | 29.500 | 29.540 | | | 29.622 | | | 29.540 | 29.500 | 29.650 | 29.650 | | | 29.859 | 29.869 |
| EXISTING SURFACE | 21.956 | 21.957 | | | | | | 21.976 | 21.977 | 21.977 | 21.978 | | | 21.984 | | | 21.990 | 21.991 | 21.992 | 21.992 | | | 24.804 | 24.997 |
| OFFSET | -12.250 | -11.750 | | | | | | -3.390 | -3.240 | -3.200 | -2.750 | | | 0.000 | | | 2.750 | 3.200 | 3.240 | 3.390 | | | 11.750 | 12.250 |

CHAINAGE 40.000



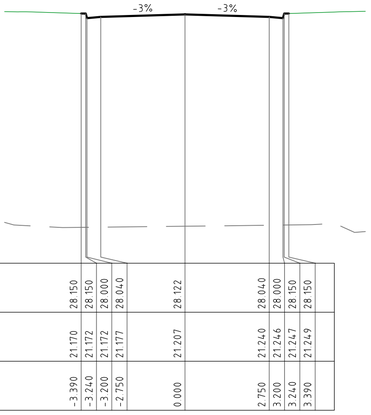

Centreline Data
X = 321277.937
Y = 6257236.936
Z = 27.622

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| EXISTING SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| OFFSET | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.556 | 27.622 | 27.555 | | | | | | | | | | | | | | | | | | | | |
| EXISTING SURFACE | 20.645 | 20.702 | 20.739 | | | | | | | | | | | | | | | | | | | | |
| OFFSET | -2.750 | 0.000 | 2.750 | | | | | | | | | | | | | | | | | | | | |

CHAINAGE 80.000



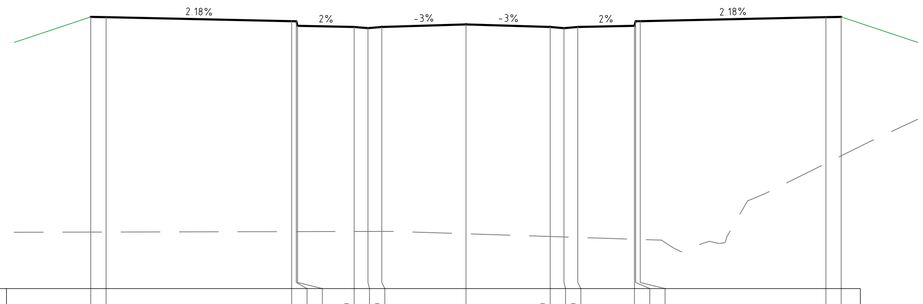

Centreline Data
X = 321275.047
Y = 6257246.509
Z = 28.122

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| EXISTING SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| OFFSET | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.150 | 28.150 | 28.000 | 28.040 | | | | 28.122 | | | | | | 28.040 | 28.000 | 28.150 | 28.150 | | | | | | |
| EXISTING SURFACE | 21.170 | 21.172 | 21.172 | 21.177 | | | | 21.207 | | | | | | 21.240 | 21.246 | 21.247 | 21.249 | | | | | | |
| OFFSET | -3.390 | -3.240 | -3.200 | -2.750 | | | | 0.000 | | | | | | 2.750 | 3.200 | 3.240 | 3.390 | | | | | | |

CHAINAGE 70.000




Centreline Data
X = 321272.156
Y = 6257256.082
Z = 28.622

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.869 | 28.859 | | | | | | 28.727 | 28.727 | 28.577 | 28.540 | 28.500 | 28.540 | | | | 28.622 | | | 28.540 | 28.500 | 28.540 | |
| EXISTING SURFACE | 21.844 | 21.845 | | | | | | 21.859 | 21.860 | 21.860 | 21.864 | 21.865 | 21.866 | | | | 21.789 | | | 21.700 | 21.685 | 21.670 | |
| OFFSET | -12.250 | -11.750 | | | | | | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | | | | 0.000 | | | 2.750 | 3.200 | 3.650 | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| EXISTING SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| OFFSET | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.727 | 28.727 | 28.577 | 28.540 | 28.500 | 28.540 | | | | 28.622 | | | 28.540 | 28.500 | 28.540 | | | 28.577 | 28.727 | 28.727 | | | 28.859 | 28.869 |
| EXISTING SURFACE | 21.859 | 21.860 | 21.860 | 21.864 | 21.865 | 21.866 | | | | 21.789 | | | 21.700 | 21.685 | 21.670 | | | 21.610 | 21.609 | 21.604 | | | 24.085 | 24.333 |
| OFFSET | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | | | | 0.000 | | | 2.750 | 3.200 | 3.650 | | | 5.500 | 5.540 | 5.690 | | | 11.750 | 12.250 |

CHAINAGE 60.000

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

MC03

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m

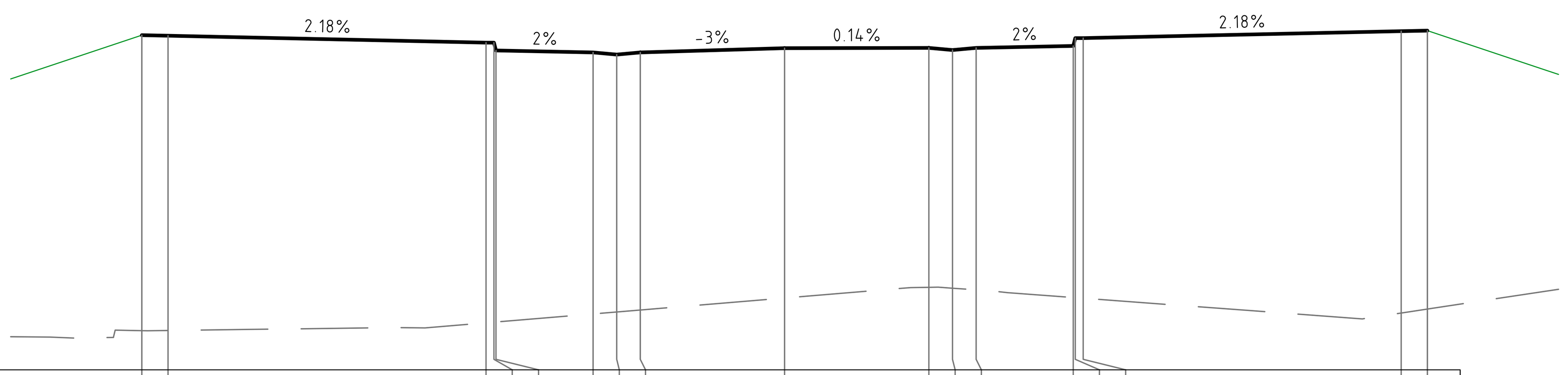
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**CROSS SECTIONS SHEET 15**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.95**
REVISION **03**
DRAWING SHEET SIZE = A1

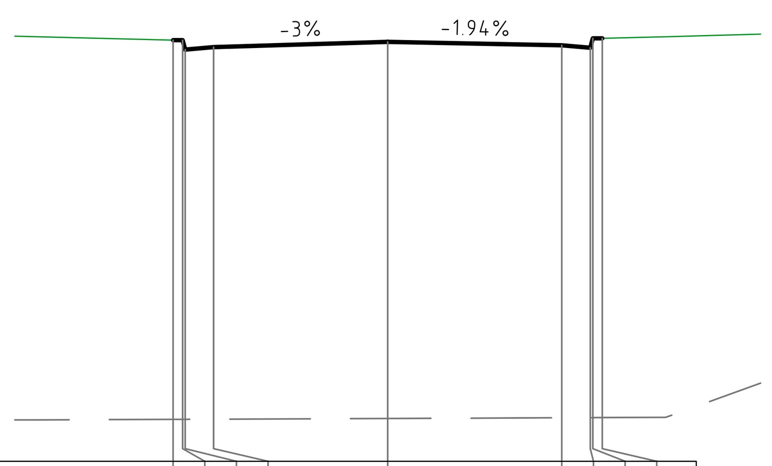



Centreline Data
X = 321286.608
Y = 6257208.216
Z = 26.122

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.369 | 26.359 | 26.227 | 26.227 | 26.077 | 26.040 | 26.000 | 26.040 | 26.122 | 26.126 | 26.086 | 26.126 | 26.163 | 26.313 | 26.313 | 26.445 | 26.455 |
| EXISTING SURFACE | 20.746 | 20.749 | 20.894 | 20.907 | 20.910 | 21.064 | 21.101 | 21.138 | 21.367 | 21.571 | 21.554 | 21.521 | 21.376 | 21.373 | 21.362 | 21.081 | 21.156 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 110.000

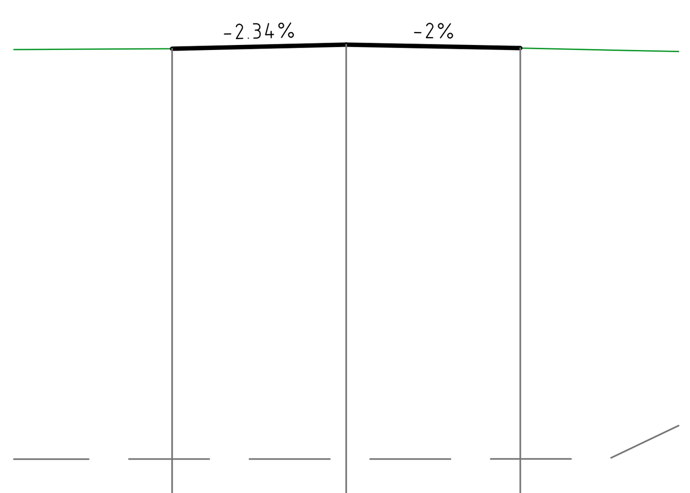



Centreline Data
X = 321283.718
Y = 6257217.789
Z = 26.622

DATUM RL 20.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.650 | 26.650 | 26.500 | 26.540 | 26.622 | 26.569 | 26.529 | 26.679 | 26.679 |
| EXISTING SURFACE | 20.662 | 20.662 | 20.663 | 20.664 | 20.676 | 20.687 | 20.689 | 20.689 | 20.690 |
| OFFSET | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 |

CHAINAGE 100.000

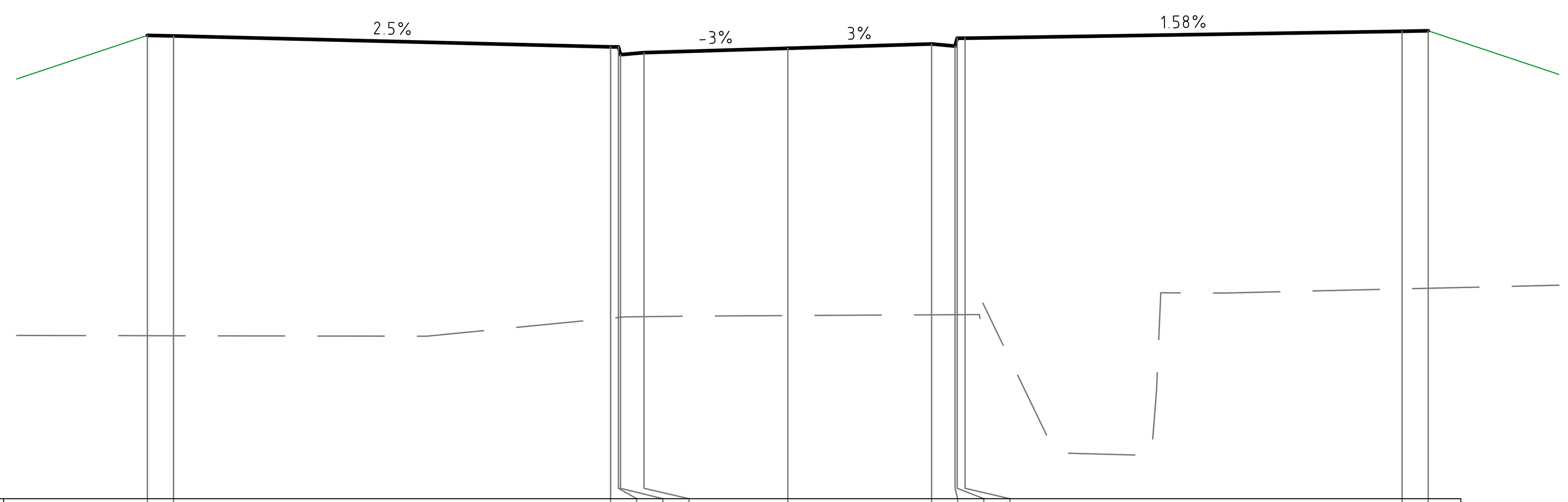



Centreline Data
X = 321280.827
Y = 6257227.362
Z = 27.122

DATUM RL 20.0

| | | | |
|---|---|---|---|
| FINISHED SURFACE | 27.058 | 27.122 | 27.067 |
| EXISTING SURFACE | 20.572 | 20.573 | 20.574 |
| OFFSET | -2.750 | 0.000 | 2.750 |

CHAINAGE 90.000

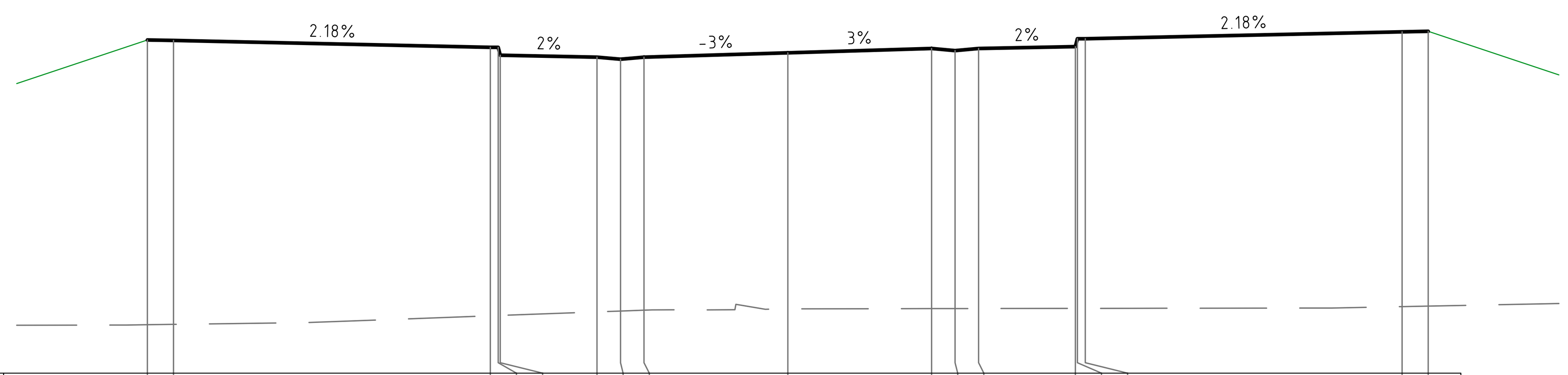



Centreline Data
X = 321295.279
Y = 6257179.496
Z = 24.622

DATUM RL 16.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.869 | 24.859 | 24.650 | 24.650 | 24.500 | 24.540 | 24.622 | 24.705 | 24.665 | 24.815 | 24.815 | 24.947 | 24.957 |
| EXISTING SURFACE | 19.121 | 19.120 | 19.455 | 19.469 | 19.473 | 19.484 | 19.506 | 19.520 | 19.523 | 19.523 | 19.524 | 20.017 | 20.028 |
| OFFSET | -12.250 | -11.750 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 11.750 | 12.250 |

CHAINAGE 140.000

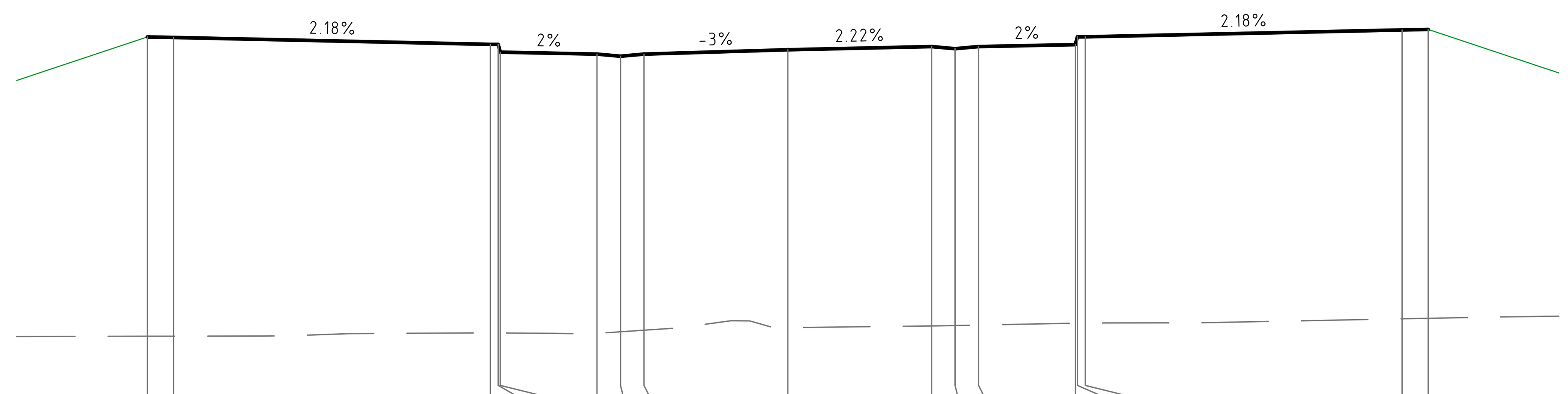



Centreline Data
X = 321292.389
Y = 6257189.070
Z = 25.122

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.369 | 25.359 | 25.227 | 25.227 | 25.077 | 25.040 | 25.000 | 25.040 | 25.122 | 25.205 | 25.165 | 25.205 | 25.242 | 25.392 | 25.392 | 25.524 | 25.534 |
| EXISTING SURFACE | 19.925 | 19.932 | 20.095 | 20.101 | 20.102 | 20.170 | 20.187 | 20.203 | 20.229 | 20.233 | 20.234 | 20.235 | 20.237 | 20.237 | 20.238 | 20.271 | 20.281 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 130.000




Centreline Data
X = 321289.498
Y = 6257198.643
Z = 25.622

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.869 | 25.859 | 25.727 | 25.727 | 25.577 | 25.540 | 25.500 | 25.540 | 25.622 | 25.683 | 25.643 | 25.683 | 25.720 | 25.870 | 25.870 | 26.002 | 26.012 |
| EXISTING SURFACE | 20.141 | 20.142 | 20.204 | 20.203 | 20.203 | 20.196 | 20.226 | 20.256 | 20.305 | 20.338 | 20.346 | 20.355 | 20.390 | 20.391 | 20.394 | 20.474 | 20.484 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 120.000

MC03

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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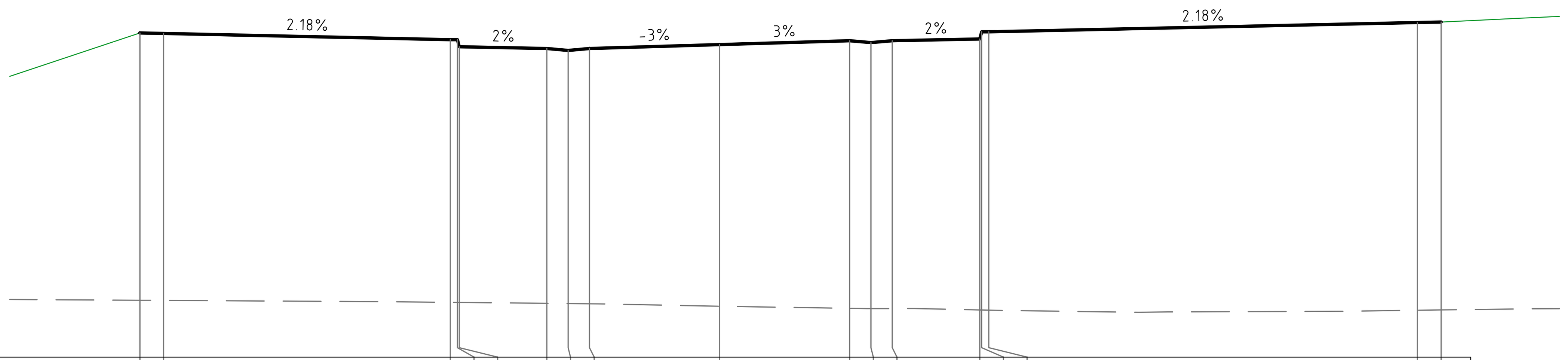
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 16

JOB NUMBER 150077-60
DRAWING NUMBER C04.96
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

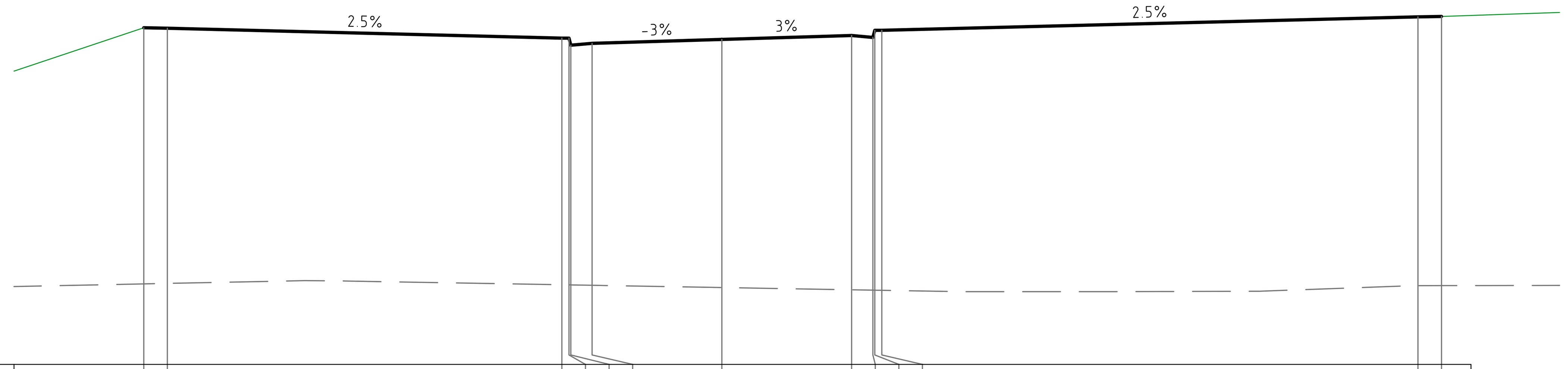



Centreline Data
X = 321318.402
Y = 6257102.911
Z = 22.600

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.847 | 22.837 | 22.705 | 22.705 | 22.555 | 22.518 | 22.478 | 22.518 | 22.600 | 22.683 | 22.643 | 22.683 | 22.720 | 22.870 | 22.870 | 23.067 | 23.077 |
| EXISTING SURFACE | 17.201 | 17.198 | 17.157 | 17.156 | 17.155 | 17.136 | 17.131 | 17.127 | 17.075 | 17.031 | 17.025 | 17.026 | 16.997 | 16.996 | 16.992 | 16.991 | 16.997 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 14.750 | 15.250 |

CHAINAGE 220.000

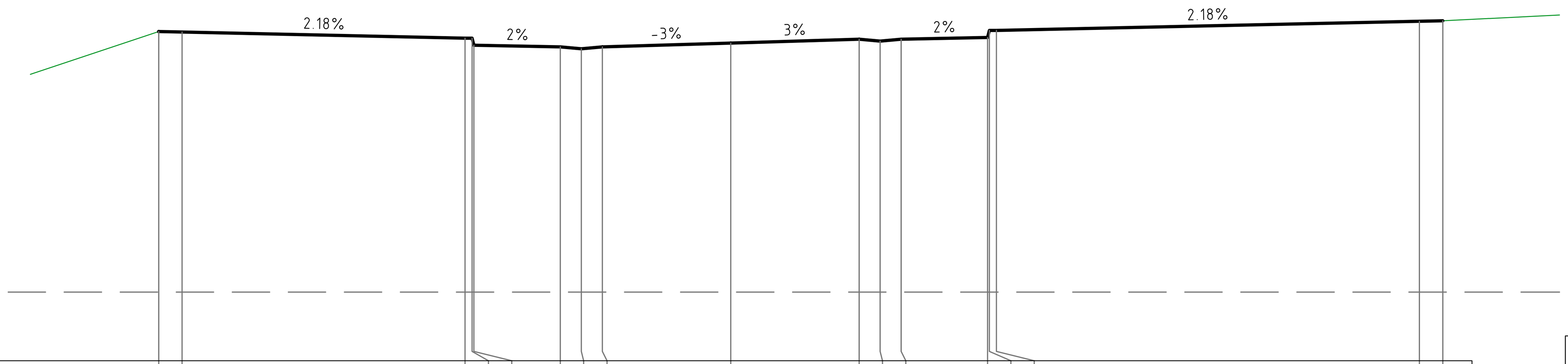



Centreline Data
X = 321327.072
Y = 6257074.191
Z = 21.877

DATUM RL 15.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.124 | 22.114 | 21.905 | 21.905 | 21.755 | 21.795 | 21.877 | 21.960 | 21.920 | 22.070 | 22.070 | 22.354 | 22.364 |
| EXISTING SURFACE | 16.704 | 16.714 | 16.686 | 16.683 | 16.683 | 16.675 | 16.627 | 16.579 | 16.572 | 16.571 | 16.568 | 16.667 | 16.668 |
| OFFSET | -12.250 | -11.750 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 14.750 | 15.250 |

CHAINAGE 250.000

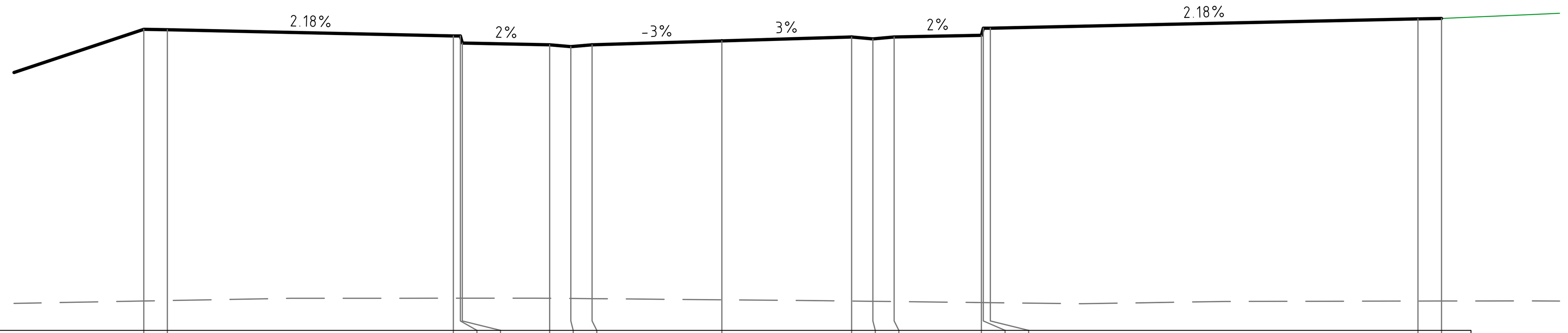



Centreline Data
X = 321315.511
Y = 6257112.484
Z = 22.801

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.047 | 23.037 | 22.905 | 22.905 | 22.755 | 22.718 | 22.678 | 22.718 | 22.801 | 22.883 | 22.843 | 22.883 | 22.920 | 23.070 | 23.070 | 23.268 | 23.278 |
| EXISTING SURFACE | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 14.750 | 15.250 |

CHAINAGE 210.000

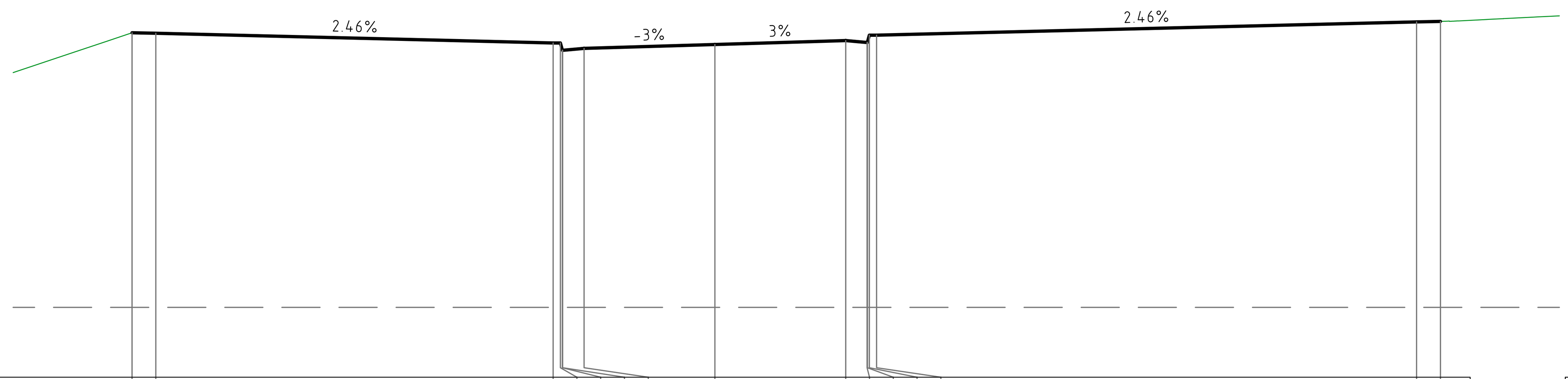



Centreline Data
X = 321324.182
Y = 6257083.764
Z = 22.141

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.388 | 22.378 | 22.246 | 22.246 | 22.096 | 22.059 | 22.019 | 22.059 | 22.141 | 22.224 | 22.184 | 22.224 | 22.261 | 22.411 | 22.411 | 22.608 | 22.618 |
| EXISTING SURFACE | 16.623 | 16.632 | 16.682 | 16.682 | 16.682 | 16.680 | 16.676 | 16.673 | 16.649 | 16.622 | 16.616 | 16.611 | 16.590 | 16.589 | 16.588 | 16.621 | 16.622 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 14.750 | 15.250 |

CHAINAGE 240.000

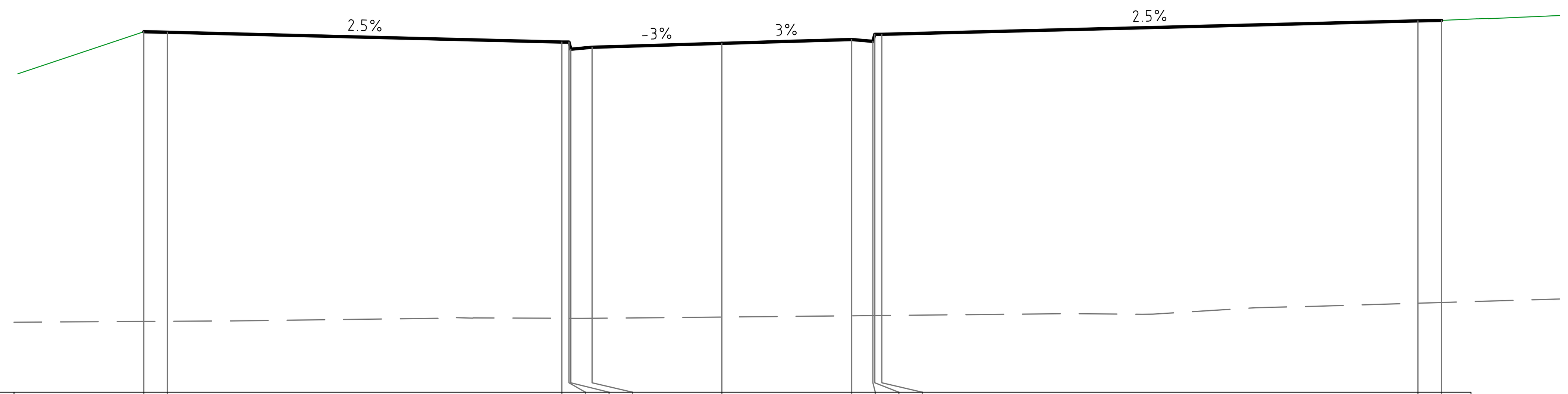



Centreline Data
X = 321312.621
Y = 6257122.057
Z = 23.001

DATUM RL 16.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.247 | 23.237 | 23.032 | 23.032 | 22.882 | 22.878 | 22.918 | 23.001 | 23.083 | 23.043 | 23.047 | 23.197 | 23.197 | 23.476 | 23.486 |
| EXISTING SURFACE | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 |
| OFFSET | -12.250 | -11.750 | -3.400 | -3.246 | -3.206 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.206 | 3.246 | 3.400 | 14.750 | 15.250 |

CHAINAGE 200.000




Centreline Data
X = 321321.292
Y = 6257093.338
Z = 22.382

DATUM RL 15.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.629 | 22.619 | 22.410 | 22.410 | 22.260 | 22.300 | 22.382 | 22.465 | 22.425 | 22.575 | 22.575 | 22.859 | 22.869 |
| EXISTING SURFACE | 16.498 | 16.501 | 16.565 | 16.564 | 16.564 | 16.564 | 16.591 | 16.618 | 16.622 | 16.622 | 16.624 | 16.884 | 16.899 |
| OFFSET | -12.250 | -11.750 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 14.750 | 15.250 |

CHAINAGE 230.000

MC03

NOT FOR CONSTRUCTION

VERIFIER:
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

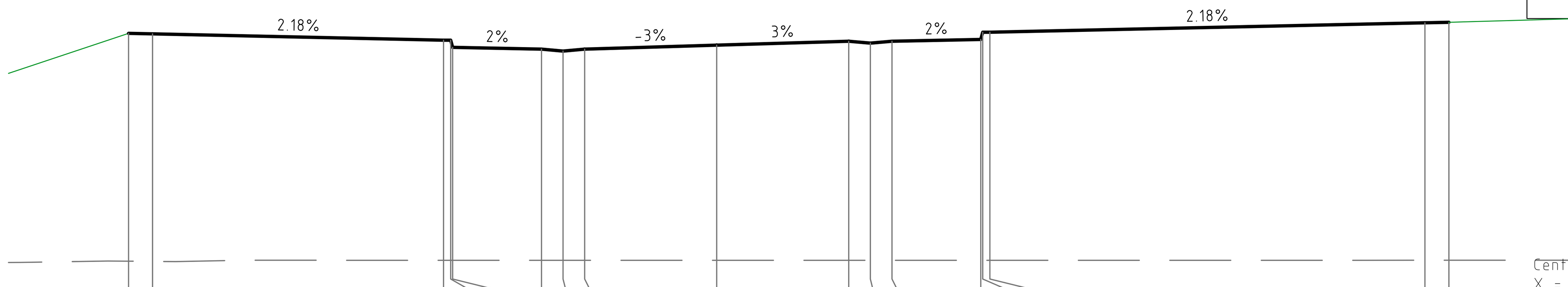
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 17

JOB NUMBER 150077-60
DRAWING NUMBER C04.97
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

## CHAINAGE 280.000



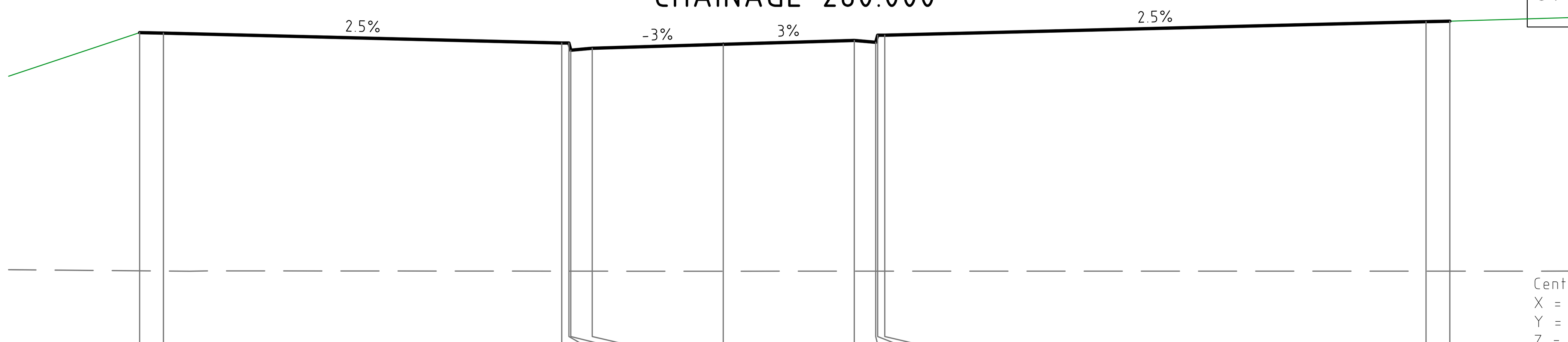

Centreline Data
X = 321335.743
Y = 6257045.472
Z = 21.067

DATUM RL 16.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -12.250 | 21.313 | 16.570 |
| -11.750 | 21.303 | 16.566 |
| -5.690 | 21.171 | 16.588 |
| -5.540 | 21.171 | 16.588 |
| -5.500 | 21.021 | 16.588 |
| -3.650 | 20.984 | 16.588 |
| -3.200 | 20.944 | 16.588 |
| -2.750 | 20.984 | 16.588 |
| 0.000 | 21.067 | 16.588 |
| 2.750 | 21.149 | 16.589 |
| 3.200 | 21.109 | 16.589 |
| 3.650 | 21.149 | 16.589 |
| 5.500 | 21.186 | 16.589 |
| 5.540 | 21.336 | 16.589 |
| 5.690 | 21.336 | 16.589 |
| 14.750 | 21.534 | 16.590 |
| 15.250 | 21.544 | 16.590 |

CHAINAGE 280.000

## CHAINAGE 270.000



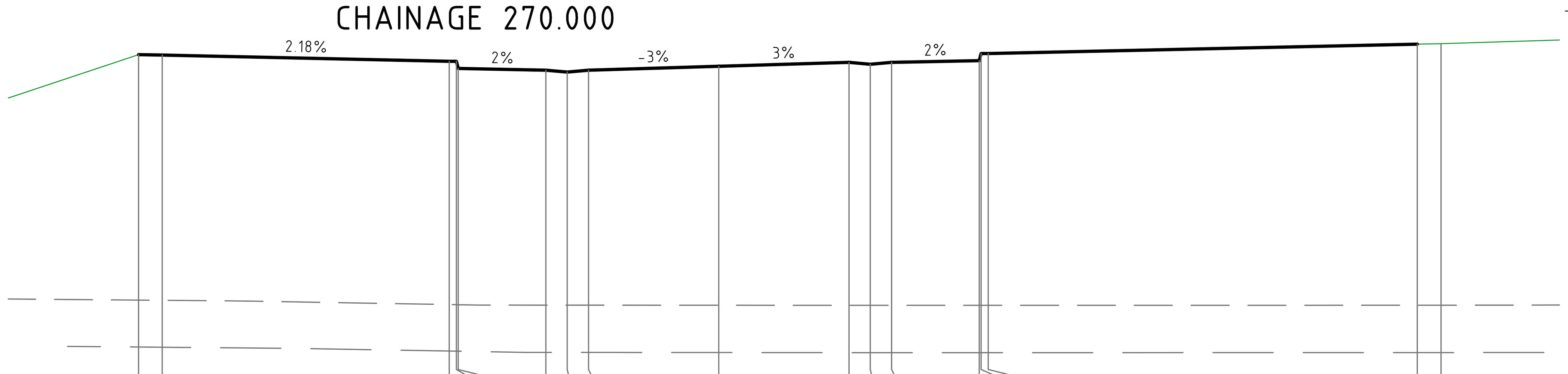

Centreline Data
X = 321332.853
Y = 6257055.045
Z = 21.337

DATUM RL 15.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -12.250 | 21.584 | 16.580 |
| -11.750 | 21.574 | 16.575 |
| -3.390 | 21.365 | 16.573 |
| -3.240 | 21.365 | 16.573 |
| -3.200 | 21.215 | 16.573 |
| -2.750 | 21.255 | 16.573 |
| 0.000 | 21.337 | 16.572 |
| 2.750 | 21.420 | 16.572 |
| 3.200 | 21.380 | 16.572 |
| 3.240 | 21.530 | 16.572 |
| 3.390 | 21.530 | 16.572 |
| 14.750 | 21.814 | 16.573 |
| 15.250 | 21.824 | 16.573 |

CHAINAGE 270.000

## CHAINAGE 260.000



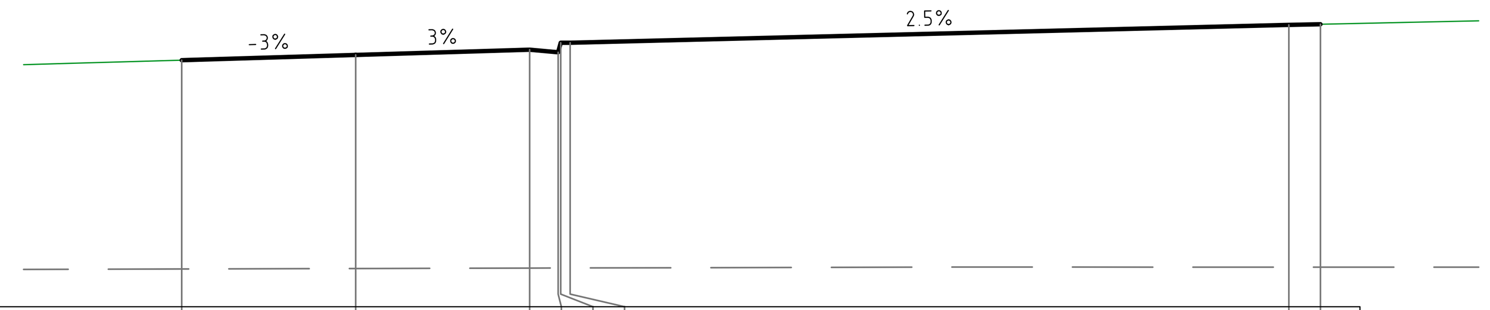

Centreline Data
X = 321329.963
Y = 6257064.618
Z = 21.607

DATUM RL 15.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -12.250 | 21.854 | 16.666 |
| -11.750 | 21.844 | 16.662 |
| -5.690 | 21.712 | 16.572 |
| -5.540 | 21.712 | 16.570 |
| -5.500 | 21.562 | 16.569 |
| -3.650 | 21.525 | 16.560 |
| -3.200 | 21.485 | 16.560 |
| -2.750 | 21.525 | 16.560 |
| 0.000 | 21.607 | 16.558 |
| 2.750 | 21.690 | 16.556 |
| 3.200 | 21.650 | 16.556 |
| 3.650 | 21.690 | 16.556 |
| 5.500 | 21.727 | 16.556 |
| 5.540 | 21.877 | 16.556 |
| 5.690 | 21.877 | 16.556 |
| 14.750 | 22.074 | 16.558 |
| 15.250 | 22.084 | 16.559 |

CHAINAGE 260.000

## CHAINAGE 320.000



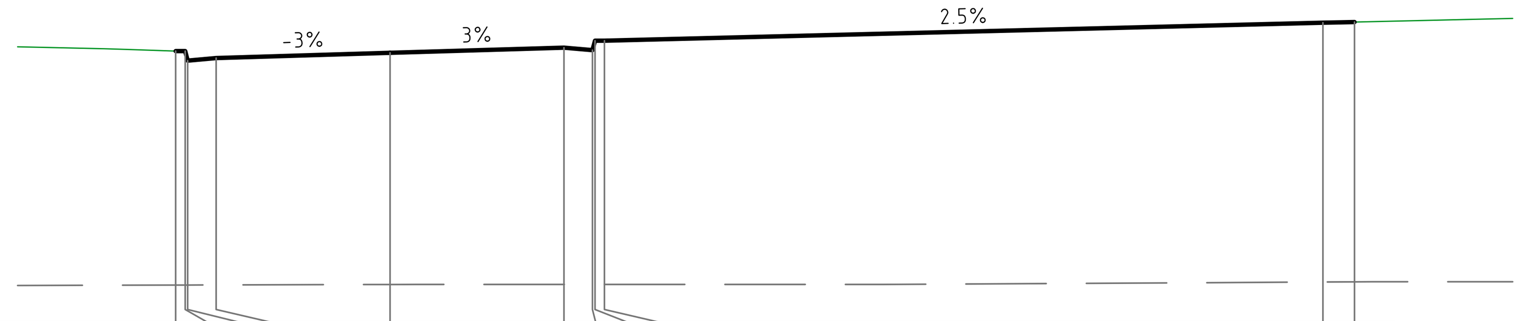

Centreline Data
X = 321347.305
Y = 6257007.179
Z = 19.986

DATUM RL 16.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -2.750 | 19.904 | 16.597 |
| 0.000 | 19.986 | 16.604 |
| 2.750 | 20.069 | 16.611 |
| 3.200 | 20.029 | 16.612 |
| 3.240 | 20.179 | 16.613 |
| 3.390 | 20.179 | 16.613 |
| 14.750 | 20.463 | 16.627 |
| 15.250 | 20.473 | 16.627 |

CHAINAGE 320.000

## CHAINAGE 310.000



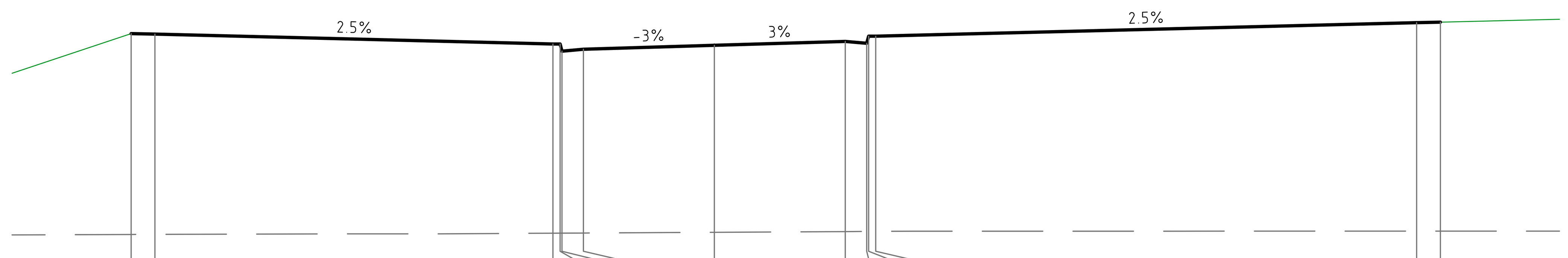

Centreline Data
X = 321344.414
Y = 6257016.752
Z = 20.256

DATUM RL 16.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -3.390 | 20.284 | 16.586 |
| -3.240 | 20.284 | 16.586 |
| -3.200 | 20.134 | 16.586 |
| -2.750 | 20.174 | 16.588 |
| 0.000 | 20.256 | 16.595 |
| 2.750 | 20.339 | 16.596 |
| 3.200 | 20.299 | 16.596 |
| 3.240 | 20.449 | 16.596 |
| 3.390 | 20.449 | 16.596 |
| 14.750 | 20.733 | 16.634 |
| 15.250 | 20.743 | 16.637 |

CHAINAGE 310.000

## CHAINAGE 300.000



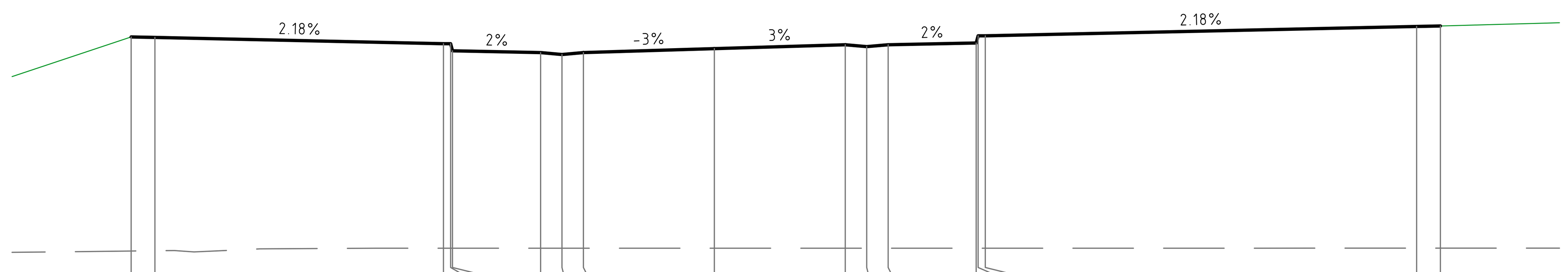

Centreline Data
X = 321341.524
Y = 6257026.325
Z = 20.526

DATUM RL 16.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -12.250 | 20.773 | 16.552 |
| -11.750 | 20.763 | 16.554 |
| -3.390 | 20.554 | 16.579 |
| -3.240 | 20.554 | 16.580 |
| -3.200 | 20.404 | 16.580 |
| -2.750 | 20.444 | 16.582 |
| 0.000 | 20.526 | 16.598 |
| 2.750 | 20.609 | 16.613 |
| 3.200 | 20.569 | 16.616 |
| 3.240 | 20.719 | 16.616 |
| 3.390 | 20.719 | 16.617 |
| 14.750 | 21.003 | 16.622 |
| 15.250 | 21.013 | 16.622 |

CHAINAGE 300.000

## CHAINAGE 290.000




Centreline Data
X = 321338.634
Y = 6257035.898
Z = 20.797

DATUM RL 16.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -12.250 | 21.043 | 16.545 |
| -11.750 | 21.033 | 16.551 |
| -5.690 | 20.901 | 16.604 |
| -5.540 | 20.901 | 16.604 |
| -5.500 | 20.751 | 16.604 |
| -3.650 | 20.714 | 16.604 |
| -3.200 | 20.674 | 16.604 |
| -2.750 | 20.714 | 16.604 |
| 0.000 | 20.797 | 16.605 |
| 2.750 | 20.879 | 16.605 |
| 3.200 | 20.839 | 16.605 |
| 3.650 | 20.879 | 16.605 |
| 5.500 | 20.916 | 16.605 |
| 5.540 | 21.066 | 16.605 |
| 5.690 | 21.066 | 16.605 |
| 14.750 | 21.264 | 16.606 |
| 15.250 | 21.274 | 16.606 |

CHAINAGE 290.000

MC03

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

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SCALE 1:100 @ A1 — 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — CROSS SECTIONS SHEET 18

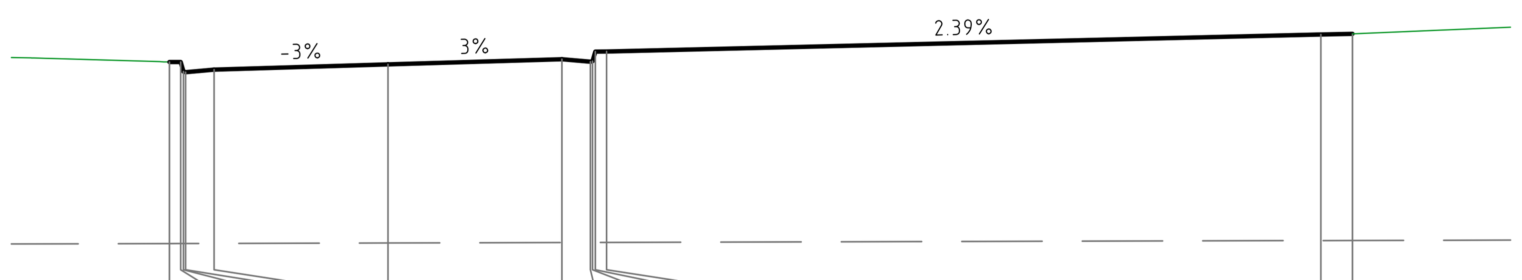
JOB NUMBER: 150077-60

DRAWING NUMBER: C04.98 REVISION: 03

DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

Centreline Data
X = 321353.085
Y = 6256988.032
Z = 19.446

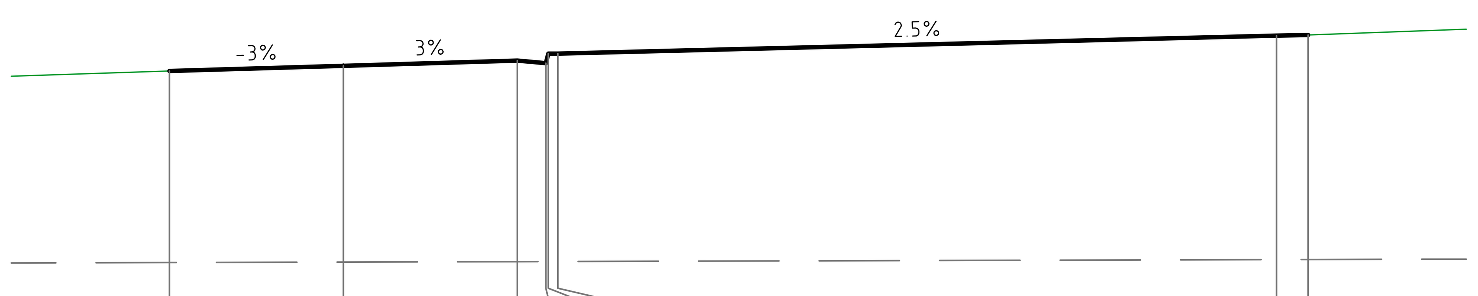



DATUM RL 16.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.484 | 19.483 | 19.333 | 19.323 | 19.363 | 19.446 | 19.528 | 19.488 | 19.498 | 19.648 | 19.649 | 19.919 | 19.929 |
| EXISTING SURFACE | 16.614 | 16.614 | 16.614 | 16.615 | 16.616 | 16.623 | 16.630 | 16.631 | 16.631 | 16.631 | 16.632 | 16.661 | 16.663 |
| OFFSET | -3.456 | -3.278 | -3.235 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.235 | 3.278 | 3.456 | 14.750 | 15.250 |

CHAINAGE 340.000

Centreline Data
X = 321350.195
Y = 6256997.606
Z = 19.716

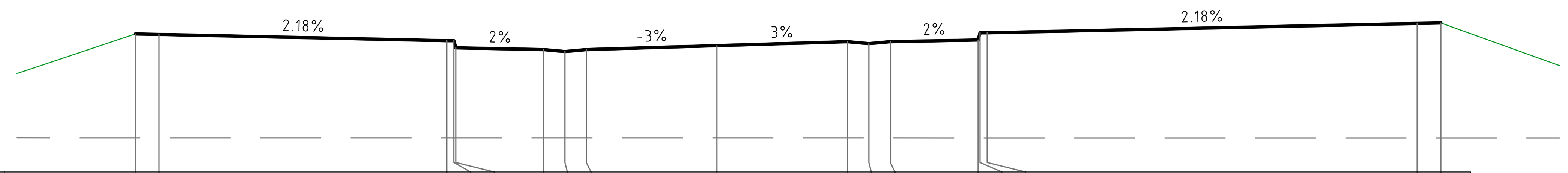



DATUM RL 16.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.633 | 19.716 | 19.798 | 19.758 | 19.908 | 19.908 | 20.192 | 20.202 |
| EXISTING SURFACE | 16.606 | 16.614 | 16.621 | 16.622 | 16.622 | 16.622 | 16.652 | 16.653 |
| OFFSET | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 14.750 | 15.250 |

CHAINAGE 330.000

Centreline Data
X = 321361.756
Y = 6256959.313
Z = 18.650

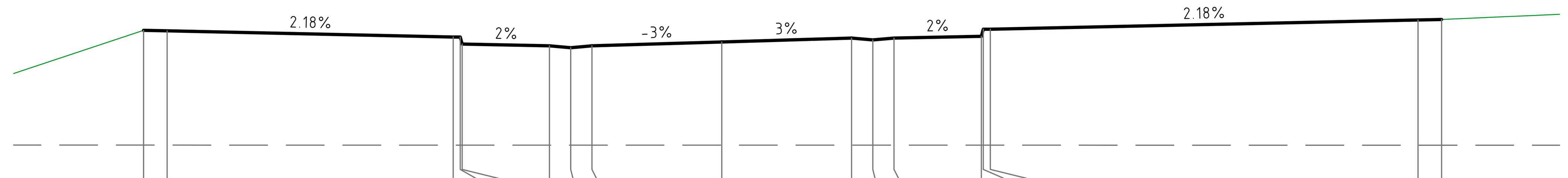



DATUM RL 16.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.896 | 18.886 | 18.754 | 18.754 | 18.604 | 18.567 | 18.527 | 18.567 | 18.650 | 18.733 | 18.693 | 18.733 | 18.770 | 18.920 | 18.920 | 19.117 | 19.127 |
| EXISTING SURFACE | 16.717 | 16.717 | 16.717 | 16.717 | 16.717 | 16.717 | 16.717 | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.715 | 16.715 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.752 | 3.202 | 3.652 | 5.502 | 5.542 | 5.692 | 14.750 | 15.250 |

CHAINAGE 370.000

Centreline Data
X = 321358.866
Y = 6256968.886
Z = 18.906

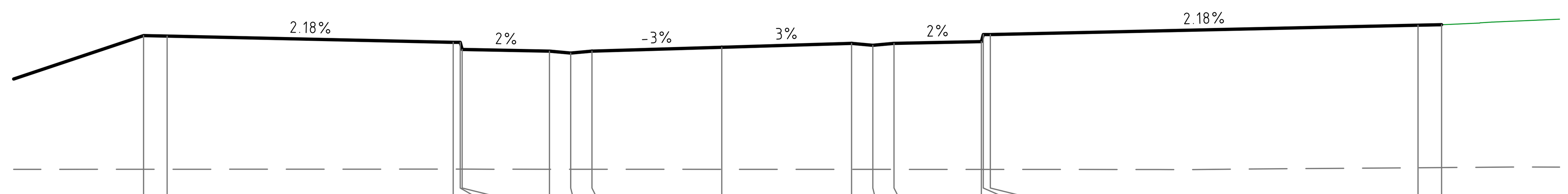



DATUM RL 16.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.152 | 19.142 | 19.010 | 19.010 | 18.860 | 18.823 | 18.783 | 18.823 | 18.906 | 18.988 | 18.948 | 18.988 | 19.025 | 19.175 | 19.175 | 19.372 | 19.382 |
| EXISTING SURFACE | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.714 | 16.714 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 14.750 | 15.250 |

CHAINAGE 360.000

Centreline Data
X = 321355.976
Y = 6256978.459
Z = 19.176




DATUM RL 16.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.422 | 19.412 | 19.280 | 19.280 | 19.130 | 19.093 | 19.053 | 19.093 | 19.176 | 19.258 | 19.218 | 19.258 | 19.295 | 19.445 | 19.445 | 19.642 | 19.652 |
| EXISTING SURFACE | 16.596 | 16.596 | 16.600 | 16.600 | 16.600 | 16.597 | 16.597 | 16.596 | 16.595 | 16.594 | 16.594 | 16.594 | 16.593 | 16.593 | 16.593 | 16.629 | 16.632 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 14.750 | 15.250 |

CHAINAGE 350.000

MC03

NOT FOR CONSTRUCTION

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

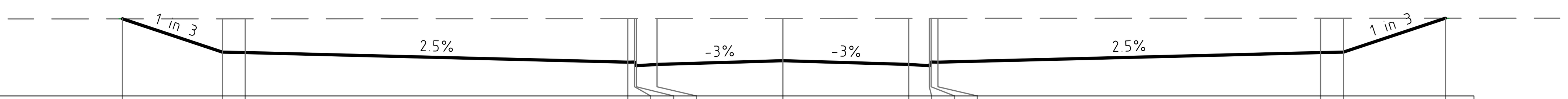
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 19

JOB NUMBER 150077-60
DRAWING NUMBER C04.99
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

Centreline Data
X = 321390.659
Y = 6256863.581
Z = 15.770

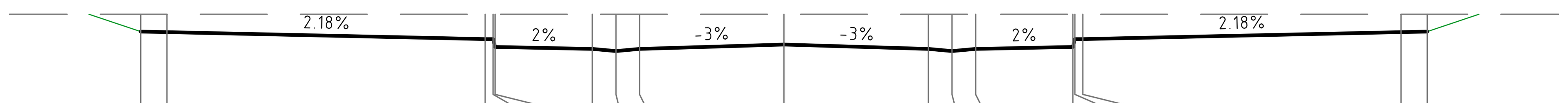



DATUM RL 15.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.685 | 15.957 | 15.947 | 15.738 | 15.740 | 15.660 | 15.688 | 15.770 | 15.688 | 15.660 | 15.740 | 15.738 | 15.947 | 15.957 | 16.700 |
| EXISTING SURFACE | 16.685 | 16.687 | 16.687 | 16.692 | 16.692 | 16.692 | 16.693 | 16.694 | 16.696 | 16.696 | 16.696 | 16.696 | 16.700 | 16.700 | 16.700 |
| OFFSET | -14.434 | -12.250 | -11.750 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 11.750 | 12.250 | 14.478 |

CHAINAGE 470.000

Centreline Data
X = 321387.769
Y = 6256873.154
Z = 16.144

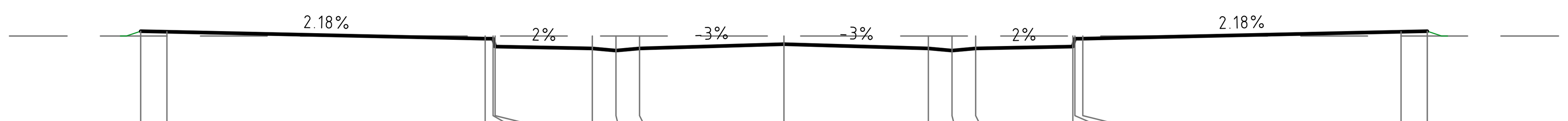



DATUM RL 15.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.391 | 16.381 | 16.249 | 16.249 | 16.099 | 16.062 | 16.022 | 16.062 | 16.144 | 16.062 | 16.022 | 16.062 | 16.099 | 16.249 | 16.249 | 16.381 | 16.391 |
| EXISTING SURFACE | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 | 16.719 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 460.000

Centreline Data
X = 321384.879
Y = 6256882.727
Z = 16.564

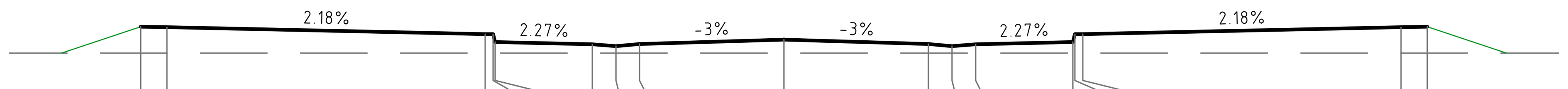



DATUM RL 15.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.811 | 16.801 | 16.669 | 16.669 | 16.519 | 16.482 | 16.442 | 16.482 | 16.564 | 16.482 | 16.442 | 16.482 | 16.519 | 16.669 | 16.669 | 16.801 | 16.811 |
| EXISTING SURFACE | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 450.000

Centreline Data
X = 321381.989
Y = 6256892.300
Z = 16.976

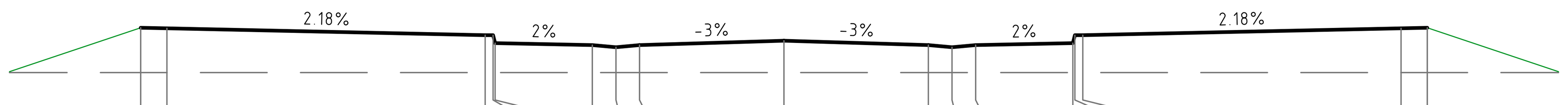



DATUM RL 16.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.222 | 17.212 | 17.080 | 17.080 | 16.930 | 16.888 | 16.853 | 16.893 | 16.976 | 16.893 | 16.853 | 16.888 | 16.930 | 17.080 | 17.080 | 17.212 | 17.222 |
| EXISTING SURFACE | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 440.000

Centreline Data
X = 321379.098
Y = 6256901.874
Z = 17.324

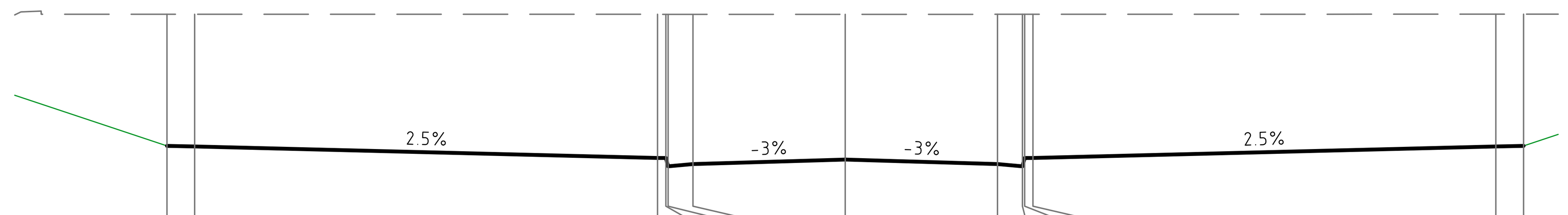



DATUM RL 16.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.571 | 17.561 | 17.429 | 17.429 | 17.279 | 17.242 | 17.202 | 17.242 | 17.324 | 17.242 | 17.202 | 17.242 | 17.279 | 17.429 | 17.429 | 17.561 | 17.571 |
| EXISTING SURFACE | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 430.000

Centreline Data
X = 321402.221
Y = 6256825.288
Z = 14.044

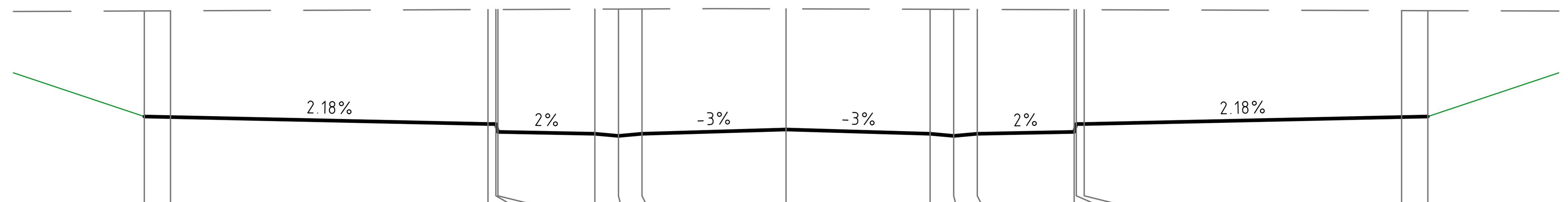



DATUM RL 13.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 14.291 | 14.281 | 14.072 | 14.072 | 13.922 | 13.962 | 14.044 | 13.962 | 13.922 | 14.072 | 14.072 | 14.281 | 14.291 |
| EXISTING SURFACE | 16.672 | 16.672 | 16.671 | 16.671 | 16.671 | 16.671 | 16.670 | 16.671 | 16.671 | 16.671 | 16.671 | 16.673 | 16.673 |
| OFFSET | -12.250 | -11.750 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 11.750 | 12.250 |

CHAINAGE 510.000

Centreline Data
X = 321399.330
Y = 6256834.861
Z = 14.464

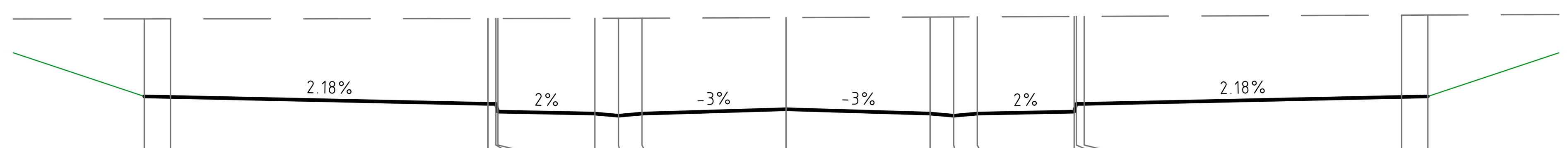



DATUM RL 13.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 14.711 | 14.701 | 14.569 | 14.569 | 14.419 | 14.382 | 14.342 | 14.382 | 14.464 | 14.382 | 14.342 | 14.382 | 14.419 | 14.569 | 14.569 | 14.701 | 14.711 |
| EXISTING SURFACE | 16.722 | 16.724 | 16.749 | 16.749 | 16.749 | 16.757 | 16.759 | 16.760 | 16.762 | 16.754 | 16.753 | 16.752 | 16.747 | 16.747 | 16.746 | 16.729 | 16.728 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 500.000

Centreline Data
X = 321396.440
Y = 6256844.435
Z = 14.884

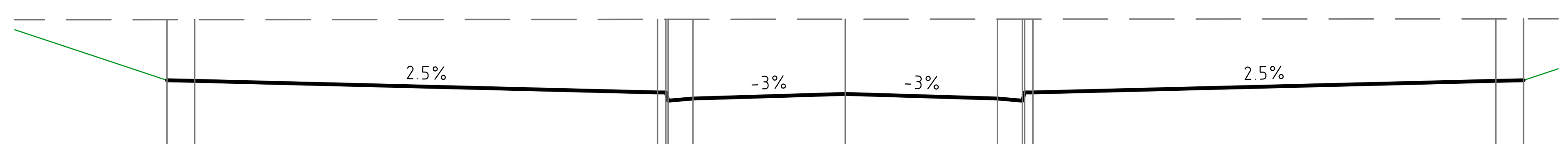



DATUM RL 14.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.131 | 15.121 | 14.989 | 14.989 | 14.839 | 14.802 | 14.762 | 14.802 | 14.884 | 14.802 | 14.762 | 14.802 | 14.839 | 14.989 | 14.989 | 15.121 | 15.131 |
| EXISTING SURFACE | 16.612 | 16.613 | 16.619 | 16.620 | 16.620 | 16.623 | 16.624 | 16.625 | 16.636 | 16.647 | 16.649 | 16.651 | 16.658 | 16.659 | 16.659 | 16.684 | 16.686 |
| OFFSET | -12.250 | -11.750 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.650 | 5.500 | 5.540 | 5.690 | 11.750 | 12.250 |

CHAINAGE 490.000

Centreline Data
X = 321393.550
Y = 6256854.008
Z = 15.304




DATUM RL 14.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.551 | 15.541 | 15.332 | 15.332 | 15.182 | 15.222 | 15.304 | 15.222 | 15.182 | 15.332 | 15.332 | 15.541 | 15.551 |
| EXISTING SURFACE | 16.650 | 16.650 | 16.655 | 16.655 | 16.655 | 16.655 | 16.657 | 16.659 | 16.659 | 16.659 | 16.659 | 16.664 | 16.665 |
| OFFSET | -12.250 | -11.750 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 11.750 | 12.250 |

CHAINAGE 480.000

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

MC03

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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ARCHITECT

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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

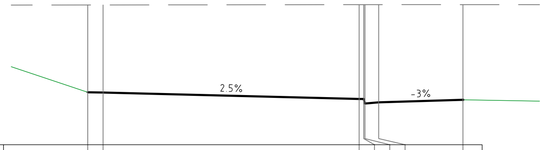
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 20

JOB NUMBER 150077-60
DRAWING NUMBER C04.100
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

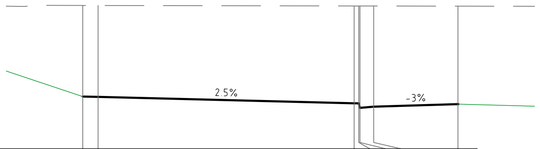



Centreline Data
X = 321410.892
Y = 6256796.569
Z = 13.466

DATUM RL 12.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 13.713 | 13.703 | | | | | | 13.694 | 13.694 | 13.344 | 13.384 | | 13.466 |
| EXISTING SURFACE | 16.561 | 16.562 | | | | | | 16.572 | 16.572 | 16.572 | 16.572 | | 16.572 |
| OFFSET | -12.250 | -11.750 | | | | | | -3.390 | -3.240 | -3.200 | -2.750 | | 0.000 |

CHAINAGE 540.000

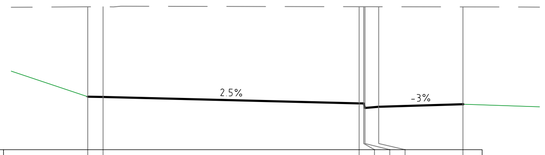



Centreline Data
X = 321409.726
Y = 6256800.429
Z = 13.452

DATUM RL 12.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 13.698 | 13.688 | | | | | | 13.479 | 13.479 | 13.329 | 13.369 | | 13.452 |
| EXISTING SURFACE | 16.673 | 16.672 | | | | | | 16.656 | 16.656 | 16.656 | 16.655 | | 16.650 |
| OFFSET | -12.250 | -11.750 | | | | | | -3.390 | -3.240 | -3.200 | -2.750 | | 0.000 |

CHAINAGE 535.968

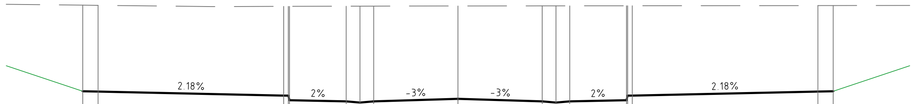



Centreline Data
X = 321408.001
Y = 6256806.142
Z = 13.483

DATUM RL 12.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 13.730 | 13.720 | | | | | | 13.511 | 13.511 | 13.361 | 13.401 | | 13.483 |
| EXISTING SURFACE | 16.664 | 16.664 | | | | | | 16.667 | 16.666 | 16.666 | 16.665 | | 16.660 |
| OFFSET | -12.250 | -11.750 | | | | | | -3.390 | -3.240 | -3.200 | -2.750 | | 0.000 |

CHAINAGE 530.000



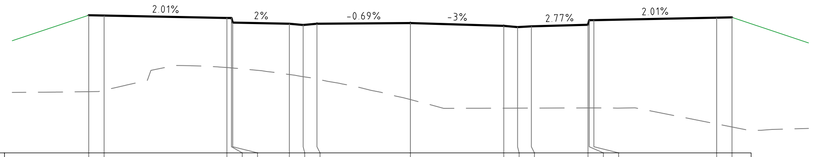

Centreline Data
X = 321405.111
Y = 6256815.715
Z = 13.677

DATUM RL 13.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 13.924 | 13.914 | | | | | | 13.782 | 13.782 | 13.632 | 13.595 | | 13.677 | | 13.595 | 13.555 | 13.595 | | 13.632 | 13.782 | 13.782 | | 13.914 | 13.924 |
| EXISTING SURFACE | 16.735 | 16.729 | | | | | | 16.695 | 16.696 | 16.696 | 16.701 | | 16.708 | | 16.711 | 16.712 | 16.712 | | 16.715 | 16.715 | 16.715 | | 16.722 | 16.722 |
| OFFSET | -12.250 | -11.750 | | | | | | -5.690 | -5.540 | -5.500 | -3.650 | | 0.000 | | 2.750 | 3.200 | 3.650 | | 5.500 | 5.540 | 5.690 | | 11.750 | 12.250 |

CHAINAGE 520.000

MC03

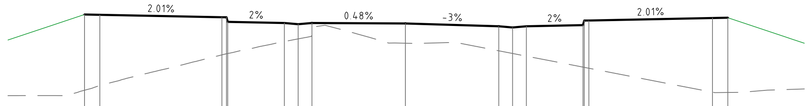



Centreline Data
X = 321356.288
Y = 6257318.735
Z = 26.236

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.492 | 26.482 | | | | | | 26.402 | 26.402 | 26.252 | 26.215 | | 26.175 | 26.215 | | 26.236 | | 26.144 | 26.104 | 26.130 | | 26.181 | 26.331 | 26.331 | | 26.412 | 26.422 |
| EXISTING SURFACE | 23.997 | 24.045 | | | | | | 24.786 | 24.772 | 24.770 | 24.557 | | 24.486 | 24.410 | | 23.740 | | 23.459 | 23.460 | 23.461 | | 23.466 | 23.466 | 23.466 | | 22.944 | 22.845 |
| OFFSET | -10.500 | -10.000 | | | | | | -5.990 | -5.840 | -5.800 | -3.950 | | -3.500 | -3.050 | | 0.000 | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | 10.000 | 10.500 |

CHAINAGE 23.915




Centreline Data
X = 321355.181
Y = 6257322.491
Z = 26.298

DATUM RL 23.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.590 | 26.580 | | | | | | 26.500 | 26.500 | 26.350 | 26.313 | | 26.273 | 26.313 | | 26.298 | | 26.206 | 26.166 | 26.206 | | 26.243 | 26.393 | 26.393 | | 26.475 | 26.485 |
| EXISTING SURFACE | 24.119 | 24.267 | | | | | | 25.272 | 25.309 | 25.317 | 25.709 | | 25.794 | 25.973 | | 25.653 | | 25.405 | 25.318 | 25.231 | | 24.873 | 24.865 | 24.836 | | 24.054 | 24.045 |
| OFFSET | -10.475 | -9.975 | | | | | | -5.990 | -5.840 | -5.800 | -3.950 | | -3.500 | -3.050 | | 0.000 | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | 10.026 | 10.526 |

CHAINAGE 20.000

Centreline Data
X = 321353.288
Y = 6257329.377
Z = 26.425

DATUM RL 25.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | | 26.615 | | | | 26.425 | | 26.334 | | | |
| EXISTING SURFACE | | | | | | | | | | | | | | 26.542 | | | | 26.556 | | 26.447 | | | |
| OFFSET | | | | | | | | | | | | | | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | |

CHAINAGE 12.858

MC04

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SEKISUI HOUSE
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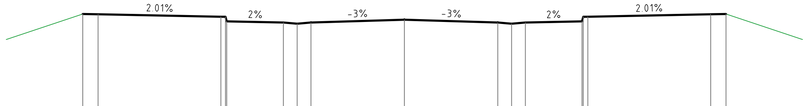
SCALE 1:100 @ A1
0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 21

JOB NUMBER 150077-60
DRAWING NUMBER C04.101
REVISION 03
DRAWING SHEET SIZE = A1

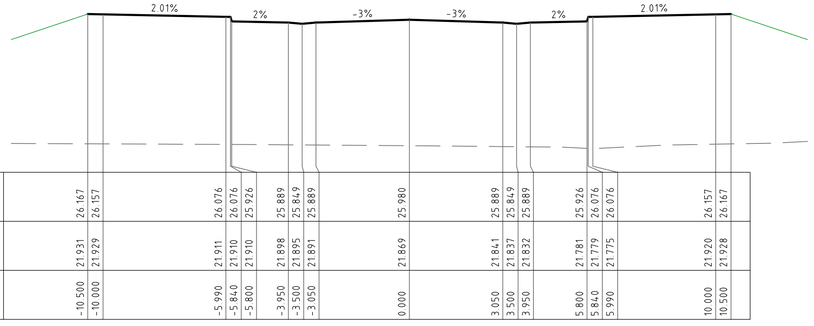



Centreline Data
X = 321363.828
Y = 6257293.764
Z = 25.822

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.008 | 25.998 | | | | 25.917 | 25.917 | 25.767 | 25.730 | 25.690 | 25.730 | | | 25.822 | | | 25.730 | 25.690 | 25.730 | | | 25.767 | 25.917 | 25.917 | | | 25.998 | 26.008 |
| EXISTING SURFACE | 22.000 | 21.997 | | | | 21.972 | 21.971 | 21.971 | 21.957 | 21.954 | 21.950 | | | 21.926 | | | 21.903 | 21.899 | 21.896 | | | 21.883 | 21.883 | 21.882 | | | 21.852 | 21.848 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 50.000




Centreline Data
X = 321360.937
Y = 6257303.337
Z = 25.980

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.167 | 26.157 | | | | 26.076 | 26.076 | 25.926 | 25.889 | 25.849 | 25.889 | | | 25.980 | | | 25.889 | 25.849 | 25.889 | | | 25.926 | 26.076 | 26.076 | | | 26.157 | 26.167 |
| EXISTING SURFACE | 21.931 | 21.929 | | | | 21.911 | 21.910 | 21.910 | 21.898 | 21.895 | 21.891 | | | 21.869 | | | 21.841 | 21.837 | 21.832 | | | 21.781 | 21.779 | 21.775 | | | 21.920 | 21.928 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 40.000

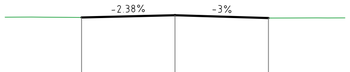



Centreline Data
X = 321358.047
Y = 6257312.910
Z = 26.139

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.340 | 26.330 | | | | 26.249 | 26.249 | 26.099 | 26.062 | 26.022 | 26.062 | | | 26.139 | | | 26.048 | 26.008 | 26.048 | | | 26.085 | 26.235 | 26.235 | | | 26.315 | 26.325 |
| EXISTING SURFACE | 21.840 | 21.834 | | | | 21.785 | 21.783 | 21.782 | 21.759 | 21.754 | 21.748 | | | 21.722 | | | 21.840 | 21.850 | 21.849 | | | 21.797 | 21.795 | 21.788 | | | 21.717 | 21.718 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 30.000

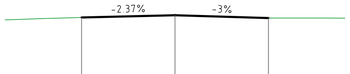



Centreline Data
X = 321375.389
Y = 6257255.471
Z = 24.766

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | | 24.693 | | | | | 24.766 | | | | 24.674 |
| EXISTING SURFACE | | | | | | | | | | | | | | 22.084 | | | | | 22.081 | | | | 22.079 |
| OFFSET | | | | | | | | | | | | | | -3.050 | | | | | 0.000 | | | | 3.050 |

CHAINAGE 90.000

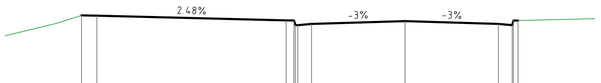



Centreline Data
X = 321372.499
Y = 6257265.044
Z = 25.129

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | | 25.056 | | | | | 25.129 | | | | 25.037 |
| EXISTING SURFACE | | | | | | | | | | | | | | 22.058 | | | | | 22.062 | | | | 22.065 |
| OFFSET | | | | | | | | | | | | | | -3.050 | | | | | 0.000 | | | | 3.050 |

CHAINAGE 80.000

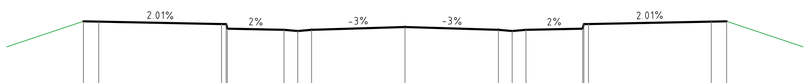



Centreline Data
X = 321369.608
Y = 6257274.617
Z = 25.424

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.612 | 25.602 | | | | | | | | | | 25.449 | 25.446 | 25.295 | 25.293 | 25.333 | | | 25.424 | | | 25.333 | 25.293 | 25.443 | 25.443 |
| EXISTING SURFACE | 22.009 | 22.007 | | | | | | | | | | 22.002 | 22.002 | 22.002 | 22.002 | 22.002 | | | 21.999 | | | 21.997 | 21.997 | 21.997 | 21.997 |
| OFFSET | -10.560 | -10.060 | | | | | | | | | | -3.881 | -3.627 | -3.577 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.540 | 3.690 |

CHAINAGE 70.000




Centreline Data
X = 321366.718
Y = 6257284.191
Z = 25.654

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.840 | 25.830 | | | | 25.749 | 25.749 | 25.599 | 25.562 | 25.522 | 25.562 | | | 25.654 | | | 25.562 | 25.522 | 25.562 | | | 25.599 | 25.749 | 25.749 | | | 25.830 | 25.840 |
| EXISTING SURFACE | 22.001 | 21.999 | | | | 21.975 | 21.975 | 21.974 | 21.967 | 21.967 | 21.967 | | | 21.965 | | | 21.962 | 21.962 | 21.962 | | | 21.960 | 21.960 | 21.960 | | | 21.951 | 21.951 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 60.000

MC04

**NOT FOR CONSTRUCTION**

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SEKISUI HOUSE
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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 22

JOB NUMBER 150077-60
DRAWING NUMBER C04.102
REVISION 03
DRAWING SHEET SIZE = A1

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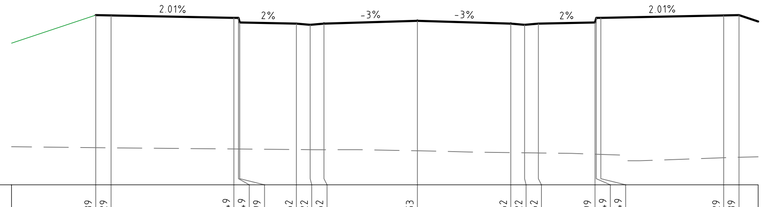
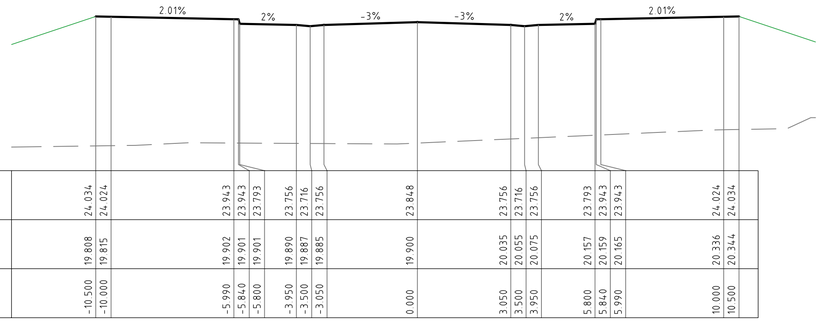



Centreline Data
X = 321384.060
Y = 6257226.751
Z = 23.353

DATUM RL 18.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.539 | 23.529 | 23.449 | 23.449 | 23.299 | 23.262 | 23.222 | 23.262 | 23.353 | 23.262 | 23.222 | 23.262 | 23.299 | 23.449 | 23.449 | 23.529 | 23.539 |
| EXISTING SURFACE | 19.212 | 19.207 | 19.170 | 19.168 | 19.168 | 19.151 | 19.147 | 19.145 | 19.111 | 19.051 | 19.045 | 19.039 | 18.999 | 18.998 | 18.993 | 18.884 | 18.899 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 120.000

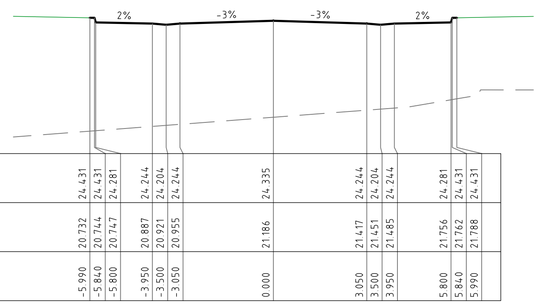



Centreline Data
X = 321381.170
Y = 6257236.325
Z = 23.848

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.034 | 24.024 | 23.943 | 23.943 | 23.793 | 23.756 | 23.716 | 23.756 | 23.848 | 23.756 | 23.716 | 23.756 | 23.793 | 23.943 | 23.943 | 24.024 | 24.034 |
| EXISTING SURFACE | 19.808 | 19.815 | 19.902 | 19.901 | 19.901 | 19.890 | 19.887 | 19.885 | 19.900 | 20.035 | 20.055 | 20.075 | 20.157 | 20.159 | 20.165 | 20.336 | 20.344 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 110.000

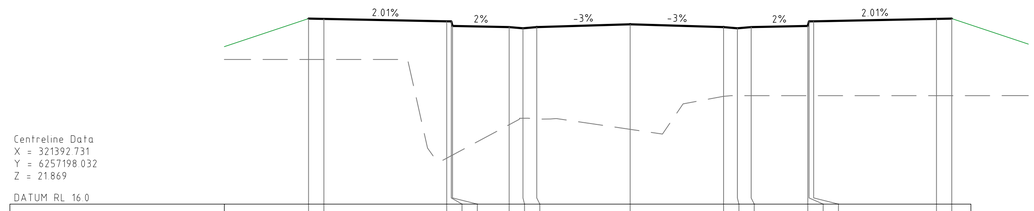



Centreline Data
X = 321378.279
Y = 6257245.898
Z = 24.335

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.431 | 24.431 | 24.281 | 24.244 | 24.204 | 24.244 | 24.335 | 24.244 | 24.204 | 24.244 | 24.281 | 24.431 | 24.431 |
| EXISTING SURFACE | 20.732 | 20.744 | 20.747 | 20.887 | 20.921 | 20.955 | 21.186 | 21.417 | 21.451 | 21.485 | 21.756 | 21.762 | 21.788 |
| OFFSET | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 |

CHAINAGE 100.000

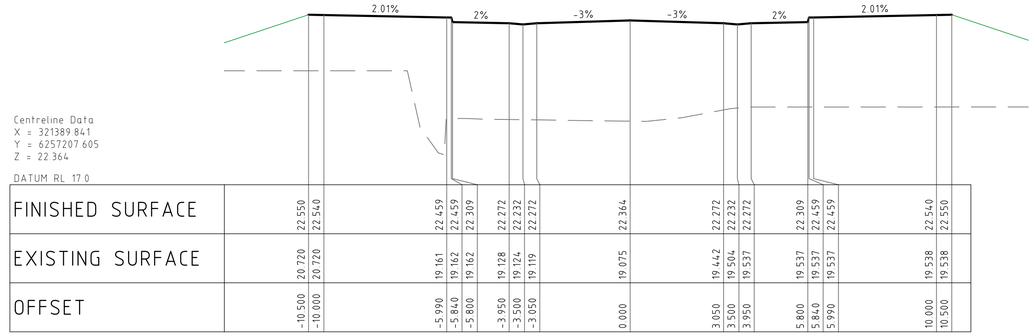



Centreline Data
X = 321392.731
Y = 6257198.032
Z = 21.869

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.055 | 22.045 | 21.964 | 21.964 | 21.814 | 21.777 | 21.737 | 21.777 | 21.869 | 21.777 | 21.737 | 21.777 | 21.814 | 21.964 | 21.964 | 22.045 | 22.055 |
| EXISTING SURFACE | 20.720 | 20.720 | 17.499 | 17.579 | 17.600 | 18.591 | 18.801 | 18.786 | 18.440 | 19.517 | 19.539 | 19.539 | 19.539 | 19.539 | 19.539 | 19.539 | 19.539 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 150.000

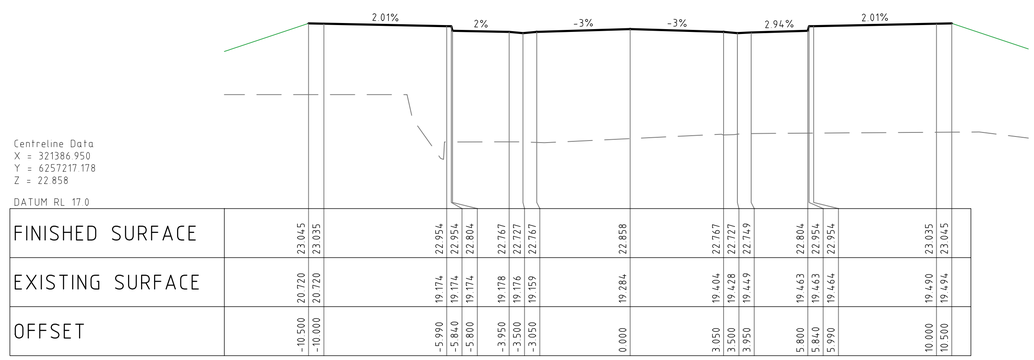



Centreline Data
X = 321389.841
Y = 6257207.605
Z = 22.364

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.550 | 22.540 | 22.459 | 22.459 | 22.309 | 22.272 | 22.232 | 22.272 | 22.364 | 22.272 | 22.232 | 22.272 | 22.309 | 22.459 | 22.459 | 22.540 | 22.550 |
| EXISTING SURFACE | 20.720 | 20.720 | 19.161 | 19.162 | 19.162 | 19.128 | 19.124 | 19.119 | 19.075 | 19.442 | 19.504 | 19.537 | 19.537 | 19.537 | 19.537 | 19.538 | 19.538 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 140.000




Centreline Data
X = 321386.950
Y = 6257217.178
Z = 22.858

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.045 | 23.035 | 22.954 | 22.954 | 22.804 | 22.767 | 22.727 | 22.767 | 22.858 | 22.767 | 22.727 | 22.749 | 22.804 | 22.954 | 22.954 | 23.035 | 23.045 |
| EXISTING SURFACE | 20.720 | 20.720 | 19.174 | 19.174 | 19.174 | 19.178 | 19.176 | 19.159 | 19.284 | 19.404 | 19.428 | 19.449 | 19.463 | 19.463 | 19.464 | 19.490 | 19.494 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 130.000

DESIGNED: A.RIVETT
DRAWN: B.MAZZA
JOB MANAGER: P.SUTTON
VERIFIER: -

MC04

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 23

JOB NUMBER 150077-60
DRAWING NUMBER C04.103
REVISION 03
DRAWING SHEET SIZE = A1

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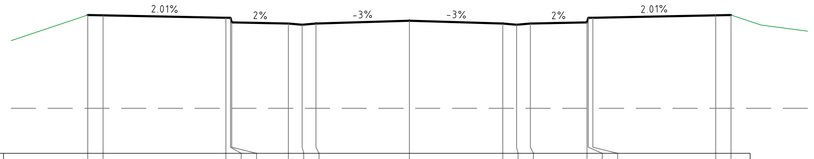
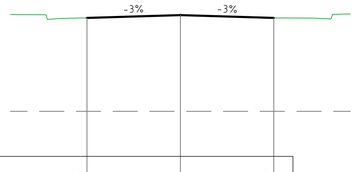



Centreline Data
X = 321404.292
Y = 6257159.739
Z = 20.328

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.515 | 20.505 | | 20.424 | 20.424 | 20.274 | 20.237 | 20.197 | 20.237 | 20.328 | 20.237 | 20.197 | 20.237 | 20.274 | 20.424 | 20.424 | 20.505 | 20.515 |
| EXISTING SURFACE | 17.470 | 17.470 | | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 |
| OFFSET | -10.500 | -10.000 | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 190.000

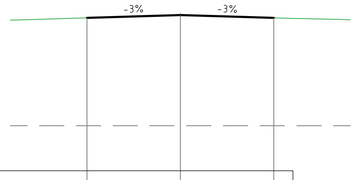



Centreline Data
X = 321401.402
Y = 6257169.312
Z = 20.611

DATUM RL 16.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | 20.520 | 20.611 | 20.520 | |
| EXISTING SURFACE | | | | | 17.470 | 17.470 | 17.470 | |
| OFFSET | | | | | -3.050 | 0.000 | 3.050 | |

CHAINAGE 180.000

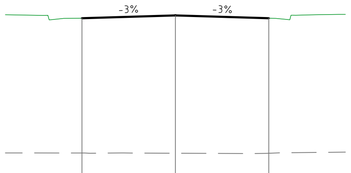



Centreline Data
X = 321398.512
Y = 6257178.885
Z = 21.082

DATUM RL 16.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | 20.991 | 21.082 | 20.991 | |
| EXISTING SURFACE | | | | | 17.470 | 17.470 | 17.470 | |
| OFFSET | | | | | -3.050 | 0.000 | 3.050 | |

CHAINAGE 170.000

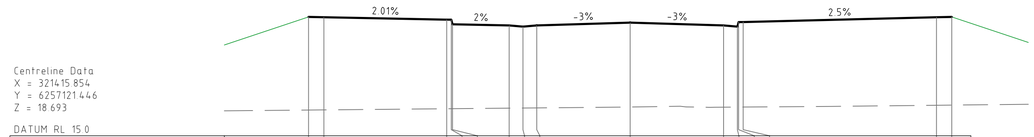



Centreline Data
X = 321395.621
Y = 6257188.459
Z = 21.554

DATUM RL 16.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | 21.463 | 21.554 | 21.463 | |
| EXISTING SURFACE | | | | | 17.064 | 17.055 | 17.055 | |
| OFFSET | | | | | -3.050 | 0.000 | 3.050 | |

CHAINAGE 160.000

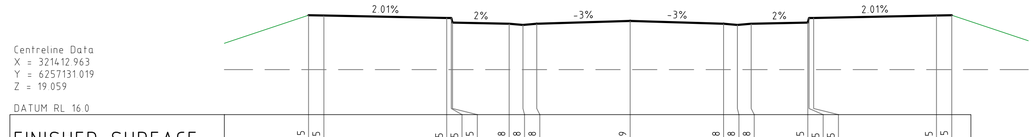



Centreline Data
X = 321415.854
Y = 6257121.446
Z = 18.693

DATUM RL 15.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.880 | 18.870 | | 18.789 | 18.789 | 18.639 | 18.602 | 18.562 | 18.602 | 18.693 | 18.602 | 18.562 | 18.712 | 18.712 | | | 18.870 | 18.880 |
| EXISTING SURFACE | 15.840 | 15.844 | | 15.882 | 15.883 | 15.884 | 15.901 | 15.905 | 15.909 | 15.938 | 15.933 | 15.936 | 15.936 | 15.937 | | | 15.995 | 16.001 |
| OFFSET | -10.500 | -10.000 | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | | | 10.000 | 10.500 |

CHAINAGE 230.000

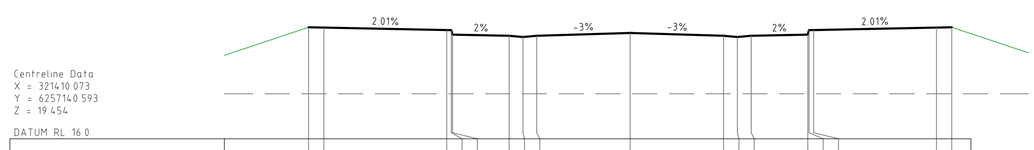



Centreline Data
X = 321412.963
Y = 6257131.019
Z = 19.059

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.245 | 19.235 | | 19.155 | 19.155 | 19.005 | 18.968 | 18.928 | 18.968 | 19.059 | 18.968 | 18.928 | 18.968 | 19.005 | 19.155 | 19.155 | | | 19.235 | 19.245 |
| EXISTING SURFACE | 17.470 | 17.470 | | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | | | 17.470 | 17.470 |
| OFFSET | -10.500 | -10.000 | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 220.000

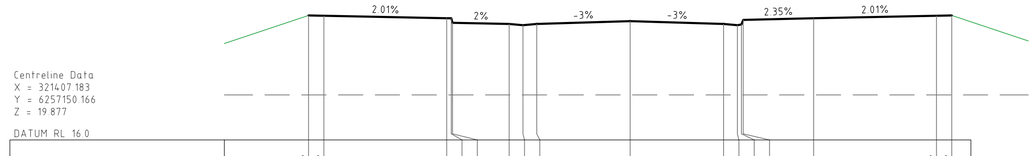



Centreline Data
X = 321410.073
Y = 6257140.593
Z = 19.454

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.640 | 19.630 | | 19.549 | 19.549 | 19.399 | 19.362 | 19.322 | 19.362 | 19.454 | 19.362 | 19.322 | 19.362 | 19.399 | 19.549 | 19.549 | | | 19.630 | 19.640 |
| EXISTING SURFACE | 17.470 | 17.470 | | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | | | 17.470 | 17.470 |
| OFFSET | -10.500 | -10.000 | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 210.000




Centreline Data
X = 321407.183
Y = 6257150.166
Z = 19.877

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.064 | 20.054 | | 19.973 | 19.973 | 19.823 | 19.786 | 19.746 | 19.786 | 19.877 | 19.786 | 19.746 | 19.768 | 19.919 | 19.973 | | | | 20.054 | 20.064 |
| EXISTING SURFACE | 17.470 | 17.470 | | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | | | | 17.470 | 17.470 |
| OFFSET | -10.500 | -10.000 | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.631 | 3.691 | 5.990 | | | | 10.000 | 10.500 |

CHAINAGE 200.000

MC04

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**CROSS SECTIONS SHEET 24**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.104**
REVISION **03**
DRAWING SHEET SIZE = A1

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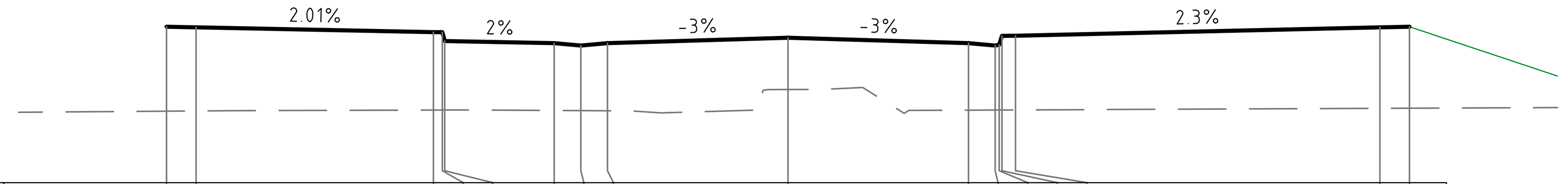
Centreline Data
X = 321427.415
Y = 6257083.153
Z = 17.450

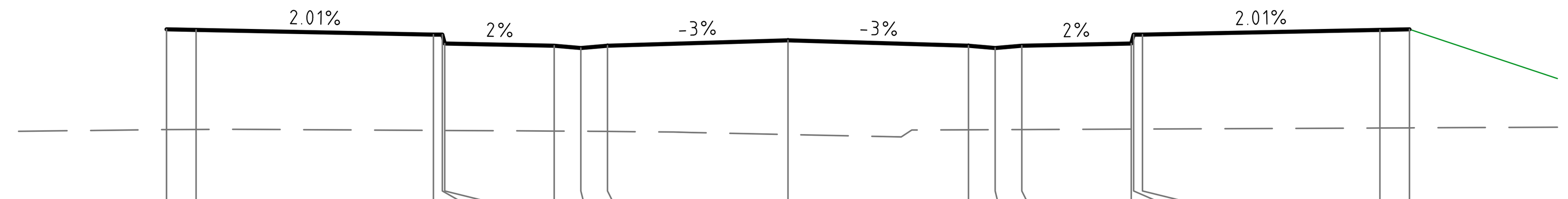



DATUM RL 15.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.637 | 17.627 | 17.546 | 17.546 | 17.396 | 17.359 | 17.319 | 17.359 | 17.450 | 17.359 | 17.319 | 17.333 | 17.483 | 17.485 | 17.627 | 17.637 |
| EXISTING SURFACE | 16.209 | 16.213 | 16.228 | 16.228 | 16.228 | 16.221 | 16.218 | 16.216 | 16.575 | 16.226 | 16.228 | 16.228 | 16.228 | 16.229 | 16.256 | 16.259 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.567 | 3.615 | 3.844 | 10.000 | 10.500 |

CHAINAGE 270.000

Centreline Data
X = 321424.524
Y = 6257092.727
Z = 17.749

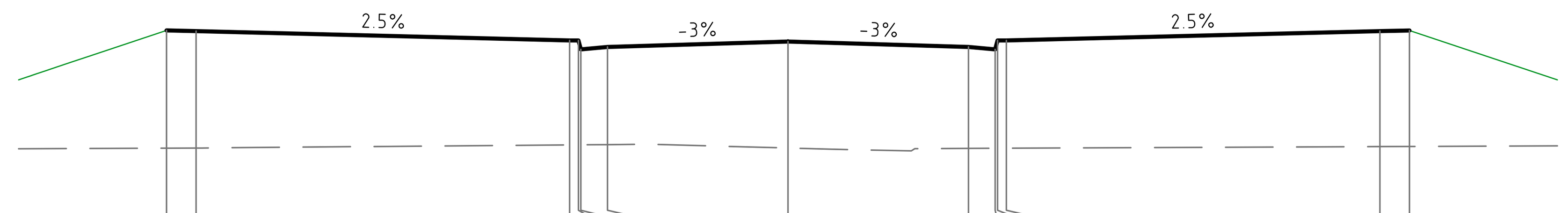



DATUM RL 15.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.936 | 17.926 | 17.845 | 17.845 | 17.695 | 17.658 | 17.618 | 17.658 | 17.749 | 17.658 | 17.618 | 17.658 | 17.695 | 17.845 | 17.845 | 17.926 | 17.936 |
| EXISTING SURFACE | 16.239 | 16.241 | 16.225 | 16.224 | 16.224 | 16.214 | 16.211 | 16.208 | 16.155 | 16.235 | 16.237 | 16.239 | 16.247 | 16.247 | 16.248 | 16.266 | 16.268 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 260.000

Centreline Data
X = 321421.634
Y = 6257102.300
Z = 18.048

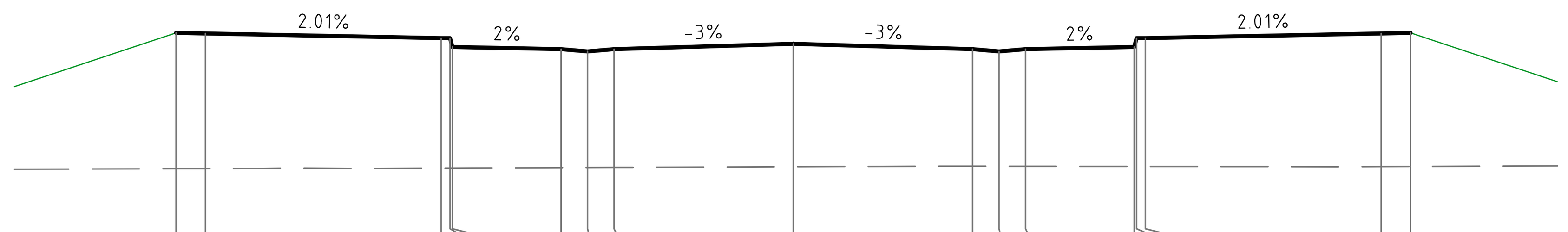



DATUM RL 15.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.237 | 18.225 | 18.067 | 18.067 | 17.917 | 17.957 | 18.048 | 17.957 | 17.917 | 18.067 | 18.067 | 18.225 | 18.235 |
| EXISTING SURFACE | 16.249 | 16.250 | 16.303 | 16.304 | 16.305 | 16.308 | 16.251 | 16.244 | 16.246 | 16.247 | 16.247 | 16.275 | 16.277 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 250.000

Centreline Data
X = 321418.744
Y = 6257111.873
Z = 18.357

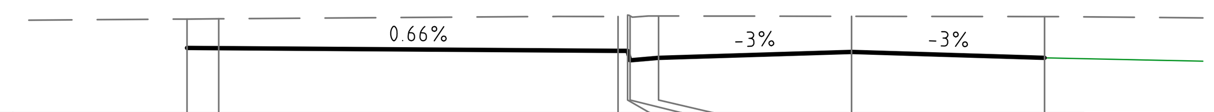



DATUM RL 15.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.543 | 18.533 | 18.452 | 18.452 | 18.302 | 18.265 | 18.225 | 18.265 | 18.357 | 18.265 | 18.225 | 18.265 | 18.302 | 18.452 | 18.452 | 18.533 | 18.543 |
| EXISTING SURFACE | 16.224 | 16.225 | 16.235 | 16.235 | 16.235 | 16.242 | 16.244 | 16.246 | 16.257 | 16.267 | 16.266 | 16.265 | 16.263 | 16.262 | 16.262 | 16.260 | 16.262 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 240.000

Centreline Data
X = 321441.866
Y = 6257035.287
Z = 15.956

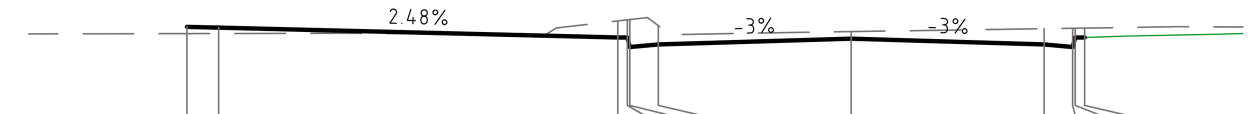



DATUM RL 15.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.019 | 16.016 | 15.975 | 15.975 | 15.825 | 15.865 | 15.956 | 15.865 |
| EXISTING SURFACE | 16.474 | 16.478 | 16.514 | 16.537 | 16.523 | 16.522 | 16.517 | 16.512 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 |

CHAINAGE 320.000

Centreline Data
X = 321438.976
Y = 6257044.861
Z = 16.255

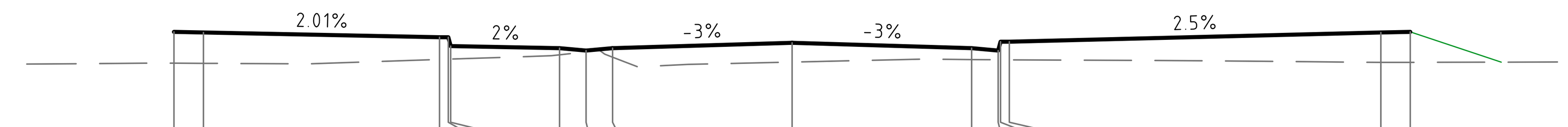



DATUM RL 15.0

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.442 | 16.430 | 16.273 | 16.273 | 16.123 | 16.163 | 16.255 | 16.163 | 16.123 | 16.273 | 16.273 |
| EXISTING SURFACE | 16.335 | 16.336 | 16.535 | 16.552 | 16.557 | 16.462 | 16.367 | 16.413 | 16.419 | 16.420 | 16.422 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 |

CHAINAGE 310.000

Centreline Data
X = 321436.086
Y = 6257054.434
Z = 16.554

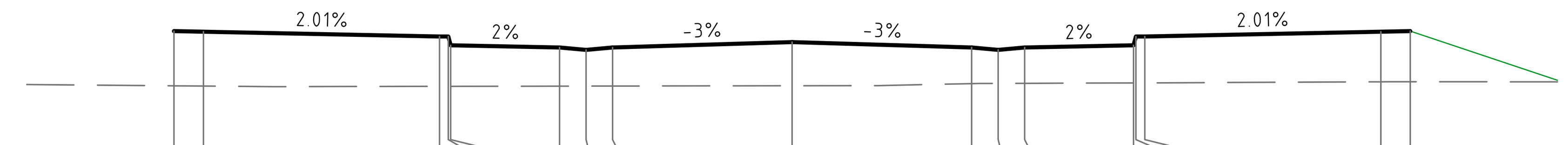



DATUM RL 15.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.740 | 16.730 | 16.649 | 16.649 | 16.499 | 16.462 | 16.422 | 16.462 | 16.554 | 16.462 | 16.422 | 16.572 | 16.572 | 16.730 | 16.740 |
| EXISTING SURFACE | 16.208 | 16.205 | 16.270 | 16.275 | 16.277 | 16.350 | 16.401 | 16.309 | 16.226 | 16.268 | 16.265 | 16.264 | 16.263 | 16.221 | 16.221 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 300.000

Centreline Data
X = 321433.195
Y = 6257064.007
Z = 16.853

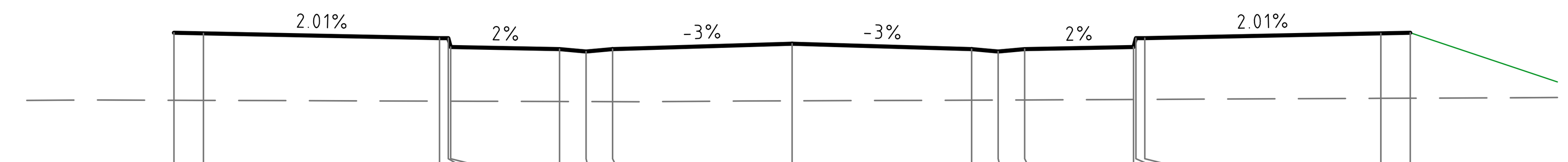



DATUM RL 15.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.039 | 17.029 | 16.948 | 16.948 | 16.798 | 16.761 | 16.721 | 16.761 | 16.853 | 16.761 | 16.721 | 16.761 | 16.798 | 16.948 | 16.948 | 17.029 | 17.039 |
| EXISTING SURFACE | 16.112 | 16.108 | 16.103 | 16.103 | 16.103 | 16.106 | 16.107 | 16.108 | 16.113 | 16.149 | 16.153 | 16.154 | 16.161 | 16.161 | 16.162 | 16.180 | 16.180 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 290.000

Centreline Data
X = 321430.305
Y = 6257073.580
Z = 17.152




DATUM RL 15.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.338 | 17.328 | 17.247 | 17.247 | 17.097 | 17.060 | 17.020 | 17.060 | 17.152 | 17.060 | 17.020 | 17.060 | 17.097 | 17.247 | 17.247 | 17.328 | 17.338 |
| EXISTING SURFACE | 16.193 | 16.191 | 16.178 | 16.177 | 16.177 | 16.171 | 16.170 | 16.169 | 16.183 | 16.194 | 16.196 | 16.198 | 16.206 | 16.207 | 16.207 | 16.225 | 16.228 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 280.000

MC04

NOT FOR CONSTRUCTION

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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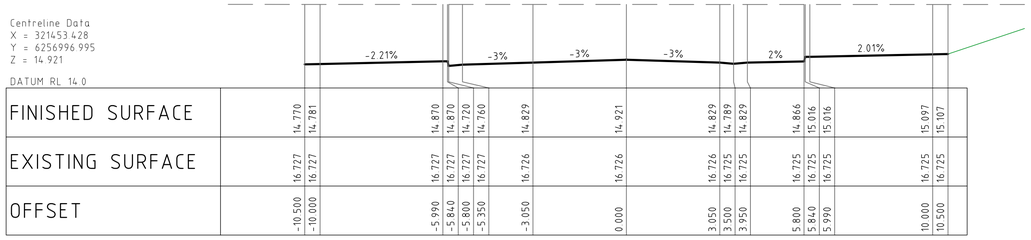
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

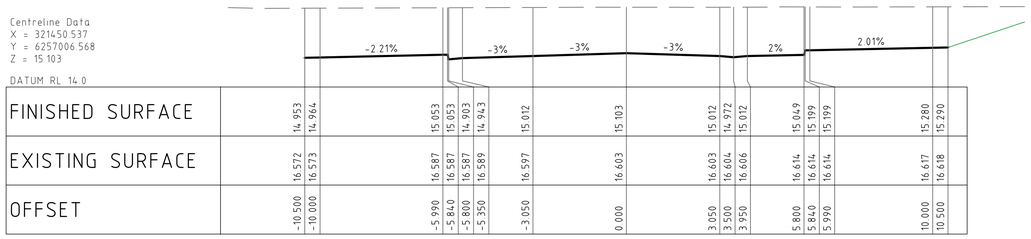
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 25

JOB NUMBER 150077-60
DRAWING NUMBER C04.105
REVISION 03
DRAWING SHEET SIZE = A1

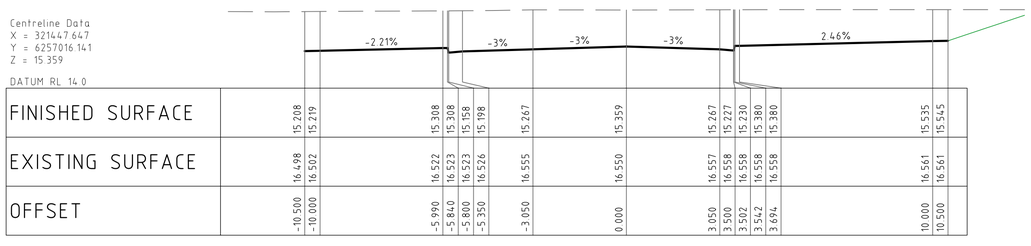
Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg



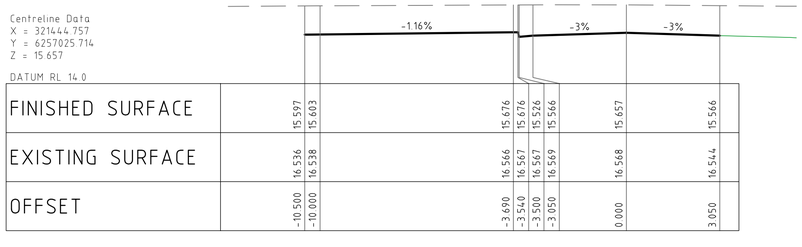

CHAINAGE 360.000



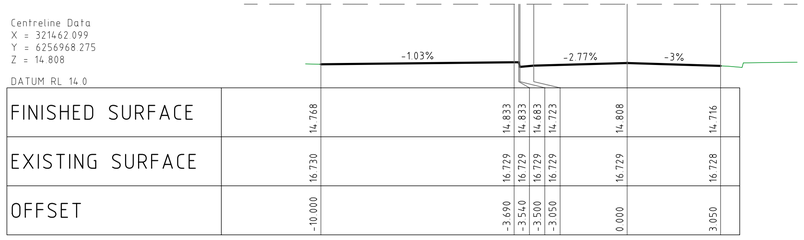

CHAINAGE 350.000



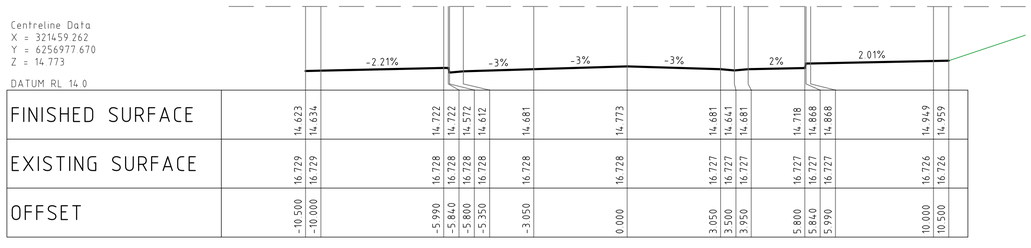

CHAINAGE 340.000



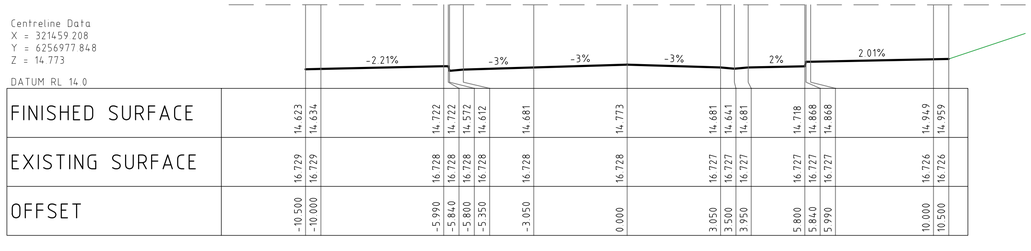

CHAINAGE 330.000



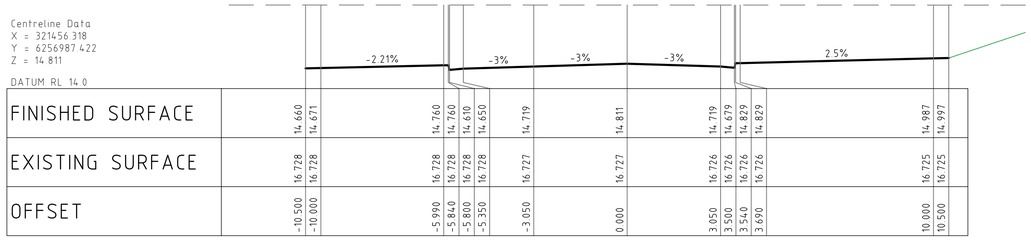

CHAINAGE 390.000




CHAINAGE 380.186




CHAINAGE 380.000




CHAINAGE 370.000

JOB MANAGER: P.SUTTON VERIFIER: -

DESIGNED: A.RIVETT

DRAWN: B.MAZZA

MC04

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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0 1 2 3 4 5m

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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

CROSS SECTIONS SHEET 26

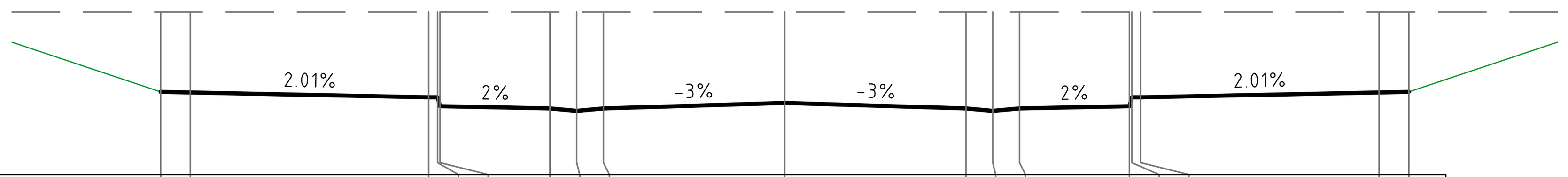
JOB NUMBER 150077-60

DRAWING NUMBER C04.106

REVISION 03

DRAWING SHEET SIZE = A1

Centreline Data
X = 321473.660
Y = 6256929.982
Z = 15.202

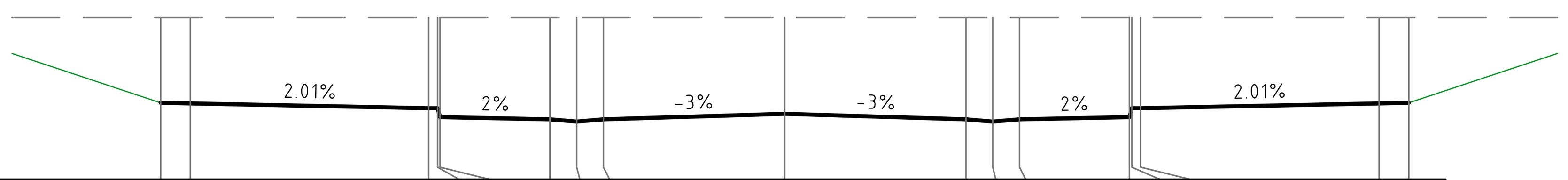



DATUM RL 14.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.388 | 15.378 | 15.298 | 15.298 | 15.148 | 15.111 | 15.071 | 15.111 | 15.202 | 15.111 | 15.071 | 15.111 | 15.148 | 15.298 | 15.298 | 15.378 | 15.388 |
| EXISTING SURFACE | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 430.000

Centreline Data
X = 321470.770
Y = 6256939.556
Z = 15.102

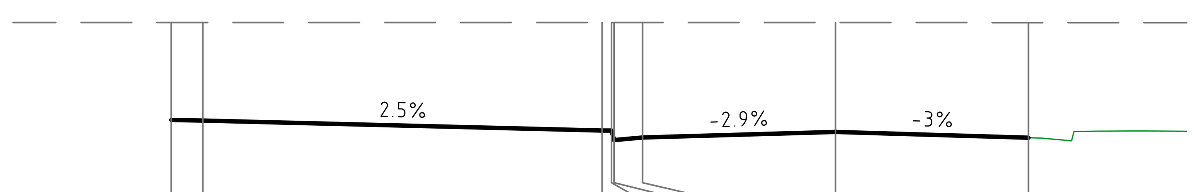



DATUM RL 14.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.288 | 15.278 | 15.198 | 15.198 | 15.048 | 15.011 | 14.971 | 15.011 | 15.102 | 15.011 | 14.971 | 15.011 | 15.048 | 15.198 | 15.198 | 15.278 | 15.288 |
| EXISTING SURFACE | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 420.000

Centreline Data
X = 321467.879
Y = 6256949.129
Z = 15.002

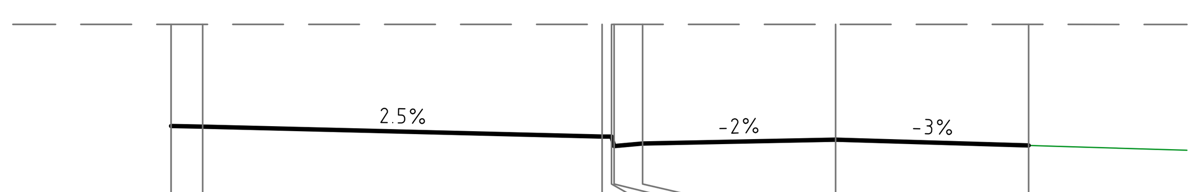



DATUM RL 14.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.191 | 15.181 | 15.024 | 15.024 | 14.874 | 14.914 | 15.002 | 14.911 |
| EXISTING SURFACE | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 |

CHAINAGE 410.000

Centreline Data
X = 321464.989
Y = 6256958.702
Z = 14.902

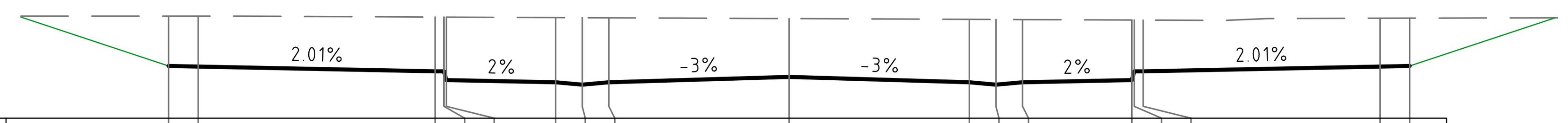



DATUM RL 14.0

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.119 | 15.109 | 14.951 | 14.951 | 14.801 | 14.841 | 14.902 | 14.811 |
| EXISTING SURFACE | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.730 | 16.729 | 16.729 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 |

CHAINAGE 400.000

Centreline Data
X = 321488.111
Y = 6256882.116
Z = 15.702

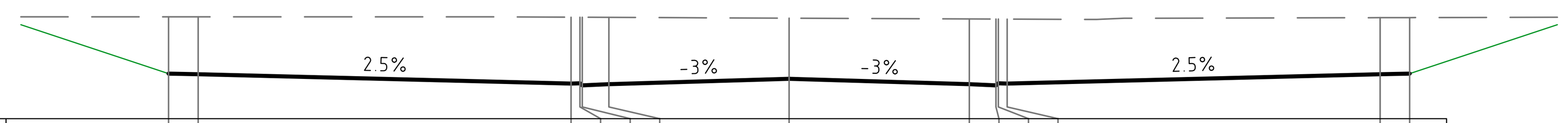



DATUM RL 15.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.888 | 15.878 | 15.798 | 15.798 | 15.648 | 15.611 | 15.571 | 15.611 | 15.702 | 15.611 | 15.571 | 15.611 | 15.648 | 15.798 | 15.798 | 15.878 | 15.888 |
| EXISTING SURFACE | 16.737 | 16.737 | 16.721 | 16.721 | 16.720 | 16.712 | 16.710 | 16.709 | 16.695 | 16.682 | 16.680 | 16.678 | 16.670 | 16.670 | 16.669 | 16.701 | 16.702 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 480.000

Centreline Data
X = 321485.221
Y = 6256891.690
Z = 15.678

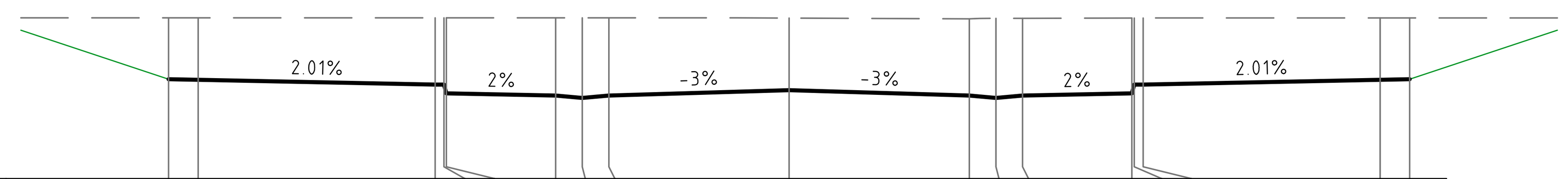



DATUM RL 15.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.766 | 15.756 | 15.598 | 15.602 | 15.567 | 15.587 | 15.678 | 15.587 | 15.567 | 15.602 | 15.598 | 15.756 | 15.766 |
| EXISTING SURFACE | 16.734 | 16.734 | 16.728 | 16.727 | 16.727 | 16.725 | 16.712 | 16.698 | 16.696 | 16.696 | 16.696 | 16.720 | 16.721 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 470.000

Centreline Data
X = 321482.331
Y = 6256901.263
Z = 15.502

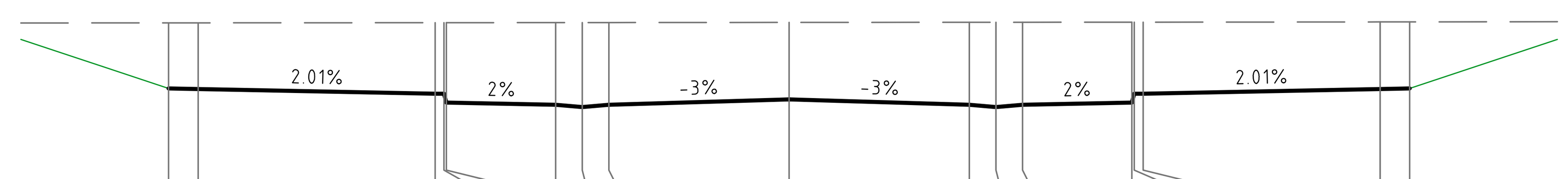



DATUM RL 14.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.688 | 15.678 | 15.598 | 15.598 | 15.448 | 15.411 | 15.371 | 15.411 | 15.502 | 15.411 | 15.371 | 15.411 | 15.448 | 15.598 | 15.598 | 15.678 | 15.688 |
| EXISTING SURFACE | 16.732 | 16.732 | 16.732 | 16.732 | 16.732 | 16.732 | 16.732 | 16.732 | 16.728 | 16.715 | 16.723 | 16.724 | 16.729 | 16.729 | 16.729 | 16.731 | 16.731 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 460.000

Centreline Data
X = 321479.441
Y = 6256910.836
Z = 15.402




DATUM RL 14.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.588 | 15.578 | 15.498 | 15.498 | 15.348 | 15.311 | 15.271 | 15.311 | 15.402 | 15.311 | 15.271 | 15.311 | 15.348 | 15.498 | 15.498 | 15.578 | 15.588 |
| EXISTING SURFACE | 16.702 | 16.703 | 16.706 | 16.706 | 16.706 | 16.707 | 16.707 | 16.708 | 16.710 | 16.712 | 16.712 | 16.713 | 16.714 | 16.714 | 16.714 | 16.718 | 16.719 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 450.000

Centreline Data
X = 321476.550
Y = 6256920.409
Z = 15.302

DATUM RL 14.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.488 | 15.478 | 15.398 | 15.398 | 15.248 | 15.211 | 15.171 | 15.211 | 15.302 | 15.211 | 15.171 | 15.211 | 15.248 | 15.398 | 15.398 | 15.478 | 15.488 |
| EXISTING SURFACE | 16.714 | 16.714 | 16.718 | 16.718 | 16.718 | 16.720 | 16.720 | 16.721 | 16.724 | 16.727 | 16.727 | 16.727 | 16.729 | 16.729 | 16.729 | 16.730 | 16.730 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 440.000

MC04

NOT FOR CONSTRUCTION

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**CROSS SECTIONS SHEET 27**

JOB NUMBER **150077-60**
DRAWING NUMBER **C04.107**
REVISION **03**
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077-60 CAD\01-DA\150077-60_C04.81.dwg

Centreline Data
X = 321502.563
Y = 6256834.250
Z = 16.202

DATUM RL 15.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.388 | 16.378 | 16.298 | 16.298 | 16.148 | 16.111 | 16.071 | 16.111 | 16.202 | 16.111 | 16.071 | 16.111 | 16.148 | 16.298 | 16.298 | 16.378 | 16.388 |
| EXISTING SURFACE | 16.750 | 16.750 | 16.749 | 16.749 | 16.749 | 16.748 | 16.748 | 16.748 | 16.748 | 16.747 | 16.746 | 16.741 | 16.719 | 16.719 | 16.717 | 16.676 | 16.681 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.054 | 3.504 | 3.954 | 5.804 | 5.844 | 5.994 | 10.000 | 10.500 |

CHAINAGE 530.000

Centreline Data
X = 321499.673
Y = 6256843.824
Z = 16.102

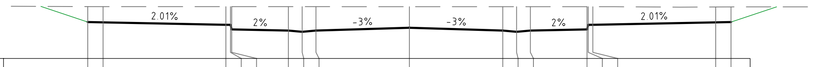
DATUM RL 15.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.288 | 16.278 | 16.198 | 16.198 | 16.048 | 16.011 | 15.971 | 16.011 | 16.102 | 16.011 | 15.971 | 16.011 | 16.048 | 16.198 | 16.198 | 16.278 | 16.288 |
| EXISTING SURFACE | 16.721 | 16.721 | 16.720 | 16.720 | 16.720 | 16.719 | 16.719 | 16.719 | 16.719 | 16.718 | 16.718 | 16.718 | 16.713 | 16.712 | 16.711 | 16.636 | 16.618 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 520.000

Centreline Data
X = 321496.782
Y = 6256853.397
Z = 16.002

DATUM RL 15.0

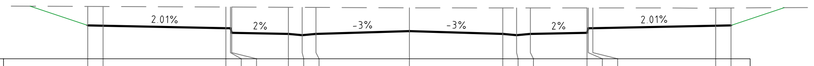



| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.188 | 16.178 | 16.098 | 16.098 | 15.948 | 15.911 | 15.871 | 15.911 | 16.002 | 15.911 | 15.871 | 15.911 | 15.948 | 16.098 | 16.098 | 16.178 | 16.188 |
| EXISTING SURFACE | 16.692 | 16.692 | 16.691 | 16.691 | 16.691 | 16.690 | 16.690 | 16.690 | 16.690 | 16.689 | 16.689 | 16.689 | 16.689 | 16.689 | 16.689 | 16.681 | 16.683 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 510.000

Centreline Data
X = 321493.892
Y = 6256862.970
Z = 15.902

DATUM RL 15.0




| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.088 | 16.078 | 15.998 | 15.998 | 15.848 | 15.811 | 15.771 | 15.811 | 15.902 | 15.811 | 15.771 | 15.811 | 15.848 | 15.998 | 15.998 | 16.078 | 16.088 |
| EXISTING SURFACE | 16.708 | 16.706 | 16.689 | 16.688 | 16.688 | 16.680 | 16.678 | 16.676 | 16.663 | 16.660 | 16.660 | 16.660 | 16.660 | 16.660 | 16.660 | 16.656 | 16.659 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 500.000

Centreline Data
X = 321491.002
Y = 6256872.543
Z = 15.802

DATUM RL 15.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.988 | 15.978 | 15.898 | 15.898 | 15.748 | 15.711 | 15.671 | 15.711 | 15.802 | 15.711 | 15.671 | 15.711 | 15.748 | 15.898 | 15.898 | 15.978 | 15.988 |
| EXISTING SURFACE | 16.725 | 16.722 | 16.705 | 16.704 | 16.704 | 16.696 | 16.694 | 16.692 | 16.679 | 16.666 | 16.664 | 16.662 | 16.654 | 16.654 | 16.653 | 16.645 | 16.640 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 490.000

Centreline Data
X = 321505.453
Y = 6256824.677
Z = 16.324

DATUM RL 15.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.511 | 16.501 | 16.343 | 16.343 | 16.193 | 16.233 | 16.324 | 16.270 | 16.230 | 16.380 | 16.380 | 16.517 | 16.527 |
| EXISTING SURFACE | 16.621 | 16.620 | 16.604 | 16.604 | 16.604 | 16.603 | 16.595 | 16.586 | 16.585 | 16.585 | 16.584 | 16.585 | 16.590 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.877 | 4.327 | 4.367 | 4.517 | 10.000 | 10.500 |

CHAINAGE 540.000

MC04

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
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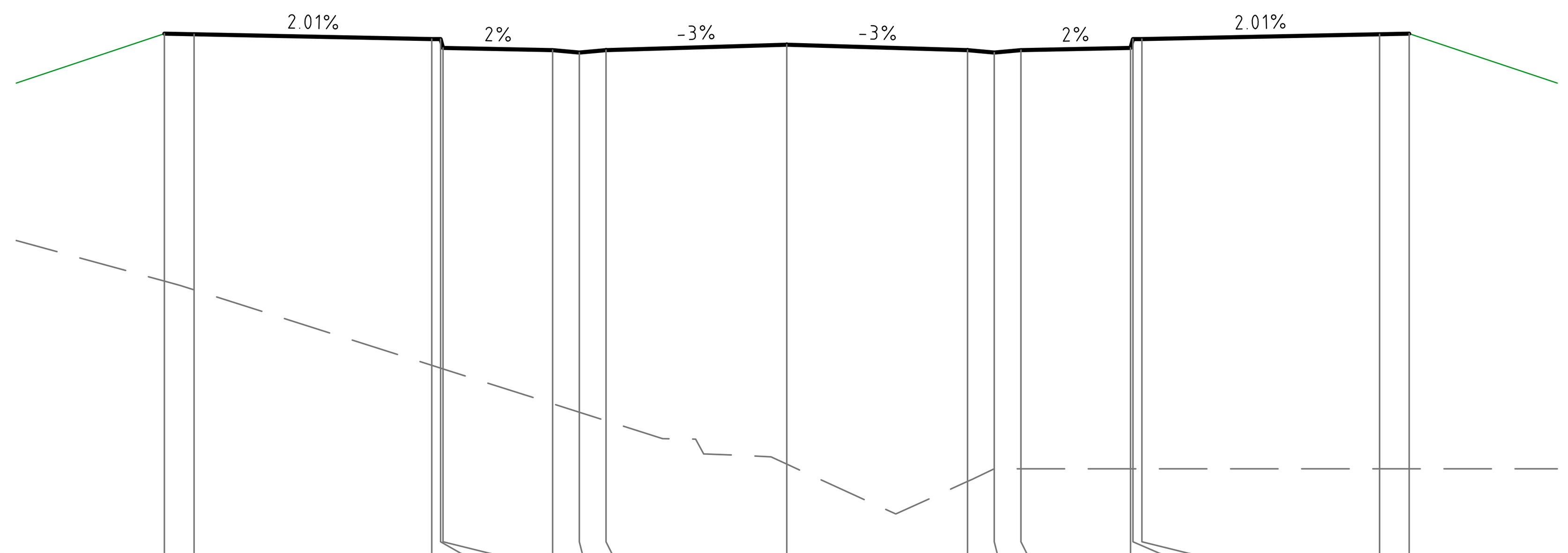
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 28

JOB NUMBER 150077-60
DRAWING NUMBER C04.108
REVISION 03
DRAWING SHEET SIZE = A1

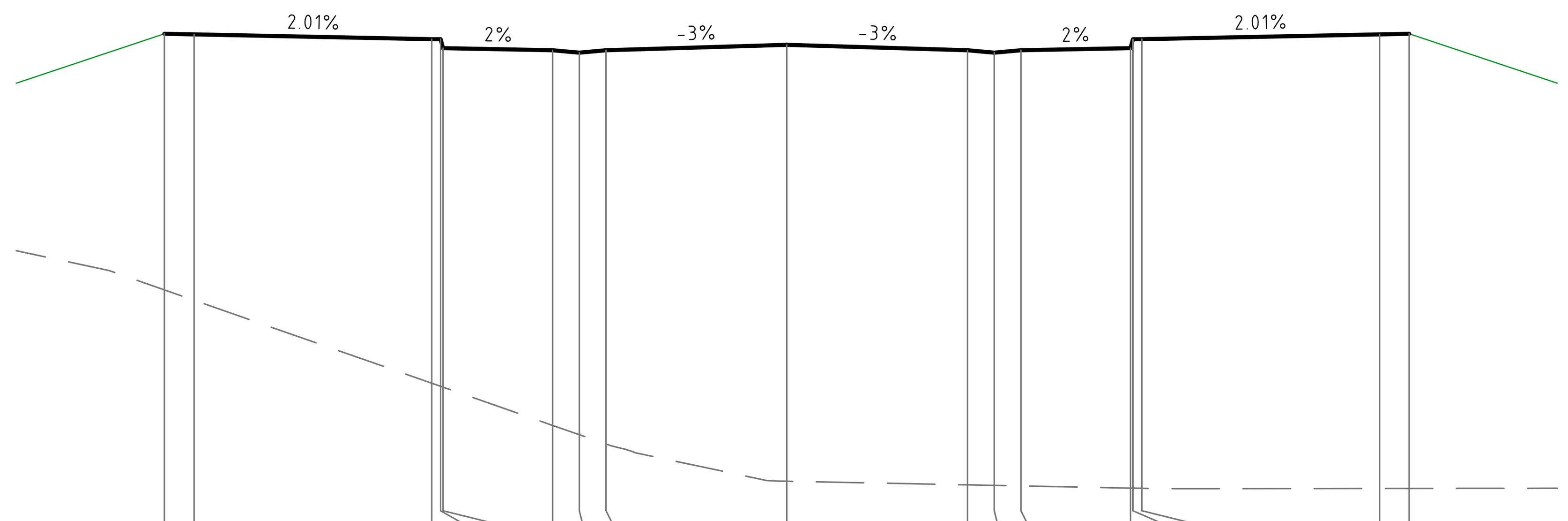



Centreline Data
X = 321191.852
Y = 6257205.118
Z = 30.575

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.761 | 30.751 | 30.670 | 30.670 | 30.520 | 30.483 | 30.443 | 30.483 | 30.575 | 30.483 | 30.443 | 30.483 | 30.520 | 30.670 | 30.670 | 30.751 | 30.761 |
| EXISTING SURFACE | 26.592 | 26.445 | 25.173 | 25.125 | 25.113 | 24.526 | 24.383 | 24.240 | 23.509 | 23.217 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 60.000

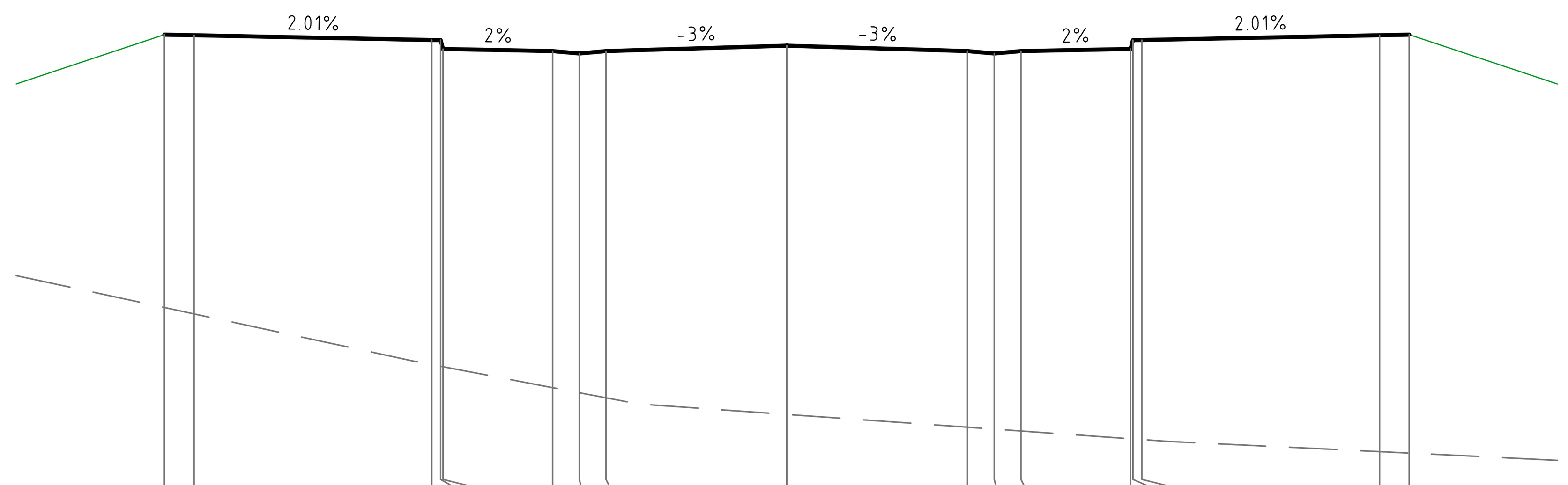



Centreline Data
X = 321182.279
Y = 6257202.227
Z = 31.051

DATUM RL 23.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.238 | 31.228 | 31.147 | 31.147 | 30.997 | 30.960 | 30.920 | 30.960 | 31.051 | 30.960 | 30.920 | 30.960 | 30.997 | 31.147 | 31.147 | 31.228 | 31.238 |
| EXISTING SURFACE | 26.922 | 26.747 | 25.350 | 25.297 | 25.283 | 24.639 | 24.482 | 24.325 | 23.697 | 23.636 | 23.627 | 23.619 | 23.582 | 23.581 | 23.578 | 23.576 | 23.576 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 50.000

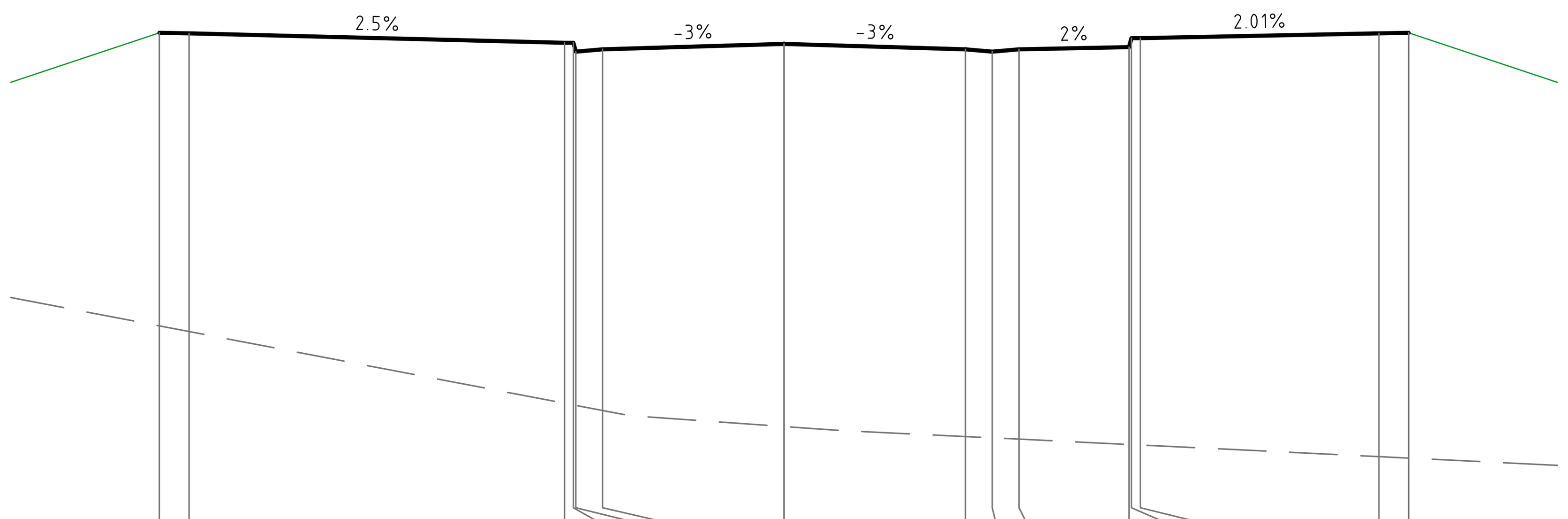



Centreline Data
X = 321172.706
Y = 6257199.337
Z = 31.528

DATUM RL 24.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.714 | 31.704 | 31.623 | 31.623 | 31.473 | 31.436 | 31.396 | 31.436 | 31.528 | 31.436 | 31.396 | 31.436 | 31.473 | 31.623 | 31.623 | 31.704 | 31.714 |
| EXISTING SURFACE | 27.104 | 26.996 | 26.140 | 26.111 | 26.104 | 25.750 | 25.664 | 25.578 | 25.297 | 25.081 | 25.050 | 25.018 | 24.887 | 24.884 | 24.873 | 24.669 | 24.644 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 40.000

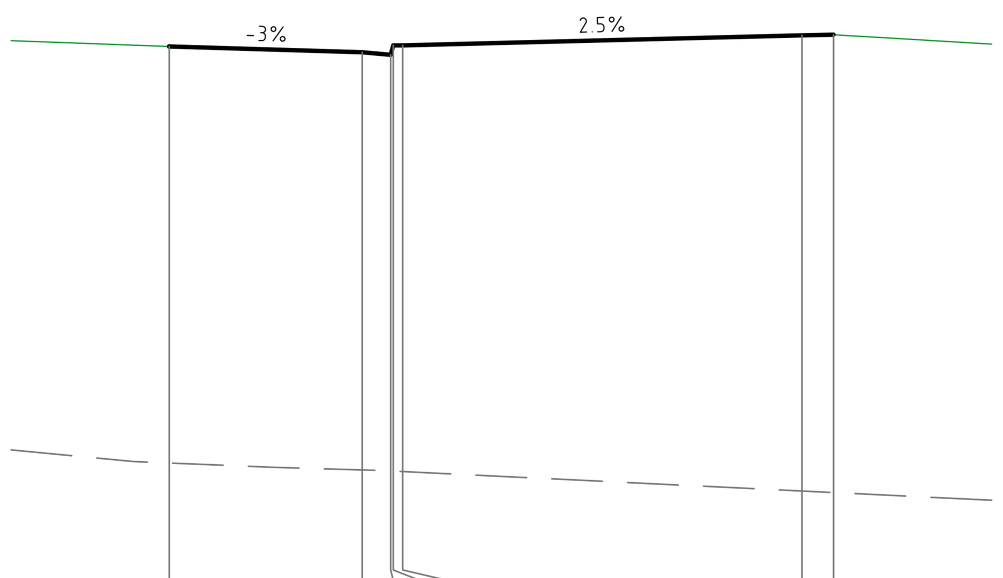



Centreline Data
X = 321163.133
Y = 6257196.447
Z = 32.005

DATUM RL 24.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.191 | 32.181 | 32.023 | 32.023 | 31.873 | 31.913 | 32.005 | 31.913 | 31.873 | 31.913 | 31.950 | 32.100 | 32.100 | 32.181 | 32.191 |
| EXISTING SURFACE | 27.259 | 27.164 | 25.958 | 25.929 | 25.921 | 25.835 | 25.566 | 25.397 | 25.375 | 25.353 | 25.264 | 25.262 | 25.255 | 25.059 | 25.035 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 30.000




Centreline Data
X = 321153.559
Y = 6257193.557
Z = 32.481

DATUM RL 24.0

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.481 | 32.390 | 32.350 | 32.500 | 32.500 | 32.657 | 32.667 |
| EXISTING SURFACE | 25.893 | 25.783 | 25.766 | 25.764 | 25.757 | 25.450 | 25.425 |
| OFFSET | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 20.000

MC30

NOT FOR CONSTRUCTION

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

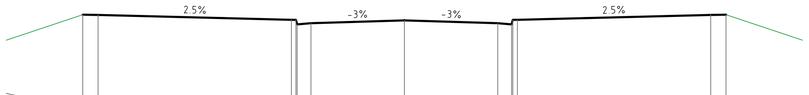
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

CROSS SECTIONS SHEET 29

JOB NUMBER 150077-60
DRAWING NUMBER C04.109
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

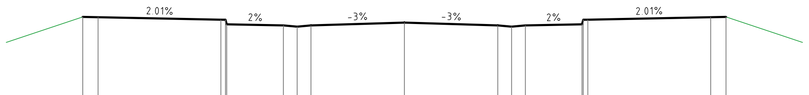



Centreline Data
X = 321220.572
Y = 6257213.789
Z = 29.145

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.331 | 29.321 | 29.164 | 29.164 | 29.014 | 29.054 | 29.145 | 29.054 | 29.014 | 29.164 | 29.164 | 29.321 | 29.331 |
| EXISTING SURFACE | 26.188 | 26.072 | 24.520 | 24.483 | 24.473 | 24.361 | 22.973 | 23.374 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 90.000

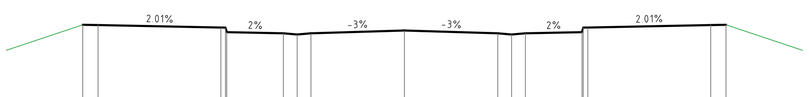



Centreline Data
X = 321210.999
Y = 6257210.898
Z = 29.622

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.808 | 29.798 | 29.717 | 29.717 | 29.567 | 29.530 | 29.622 | 29.530 | 29.490 | 29.530 | 29.567 | 29.717 | 29.798 | 29.808 |
| EXISTING SURFACE | 26.127 | 25.987 | 24.858 | 24.816 | 24.805 | 24.284 | 23.173 | 23.321 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 80.000

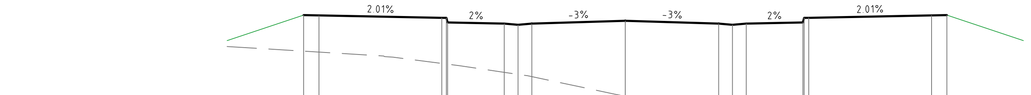



Centreline Data
X = 321201.425
Y = 6257208.008
Z = 30.098

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.285 | 30.275 | 30.194 | 30.194 | 30.044 | 30.007 | 29.967 | 30.007 | 30.098 | 30.007 | 29.967 | 30.007 | 30.044 | 30.194 | 30.194 | 30.275 | 30.285 |
| EXISTING SURFACE | 26.399 | 26.262 | 25.164 | 25.123 | 25.112 | 24.604 | 24.479 | 24.354 | 23.375 | 23.268 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 | 23.429 | 23.429 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 70.000

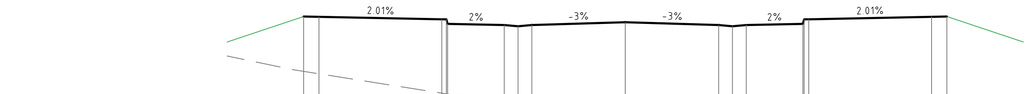



Centreline Data
X = 321249.291
Y = 6257222.460
Z = 27.715

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.902 | 27.892 | 27.811 | 27.811 | 27.661 | 27.624 | 27.624 | 27.584 | 27.715 | 27.624 | 27.584 | 27.624 | 27.661 | 27.811 | 27.811 | 27.892 | 27.902 |
| EXISTING SURFACE | 26.724 | 26.694 | 26.324 | 26.305 | 26.300 | 26.032 | 25.965 | 25.892 | 25.248 | 24.697 | 24.650 | 24.524 | 24.064 | 24.056 | 24.026 | 23.530 | 23.479 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 120.000

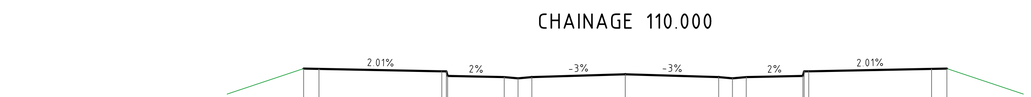



Centreline Data
X = 321239.718
Y = 6257219.569
Z = 28.192

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.378 | 28.368 | 28.287 | 28.287 | 28.137 | 28.100 | 28.060 | 28.100 | 28.192 | 28.100 | 28.060 | 28.100 | 28.137 | 28.287 | 28.287 | 28.368 | 28.378 |
| EXISTING SURFACE | 26.588 | 26.509 | 25.877 | 25.852 | 25.845 | 25.531 | 25.455 | 25.379 | 24.868 | 23.893 | 23.684 | 23.283 | 23.258 | 23.258 | 23.256 | 23.008 | 22.961 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 110.000




Centreline Data
X = 321230.145
Y = 6257216.679
Z = 28.669

DATUM RL 22.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 28.855 | 28.845 | 28.764 | 28.764 | 28.614 | 28.577 | 28.537 | 28.577 | 28.669 | 28.577 | 28.537 | 28.577 | 28.614 | 28.764 | 28.764 | 28.845 | 28.855 |
| EXISTING SURFACE | 26.304 | 26.164 | 25.246 | 25.213 | 25.204 | 24.790 | 24.689 | 24.589 | 23.065 | 23.427 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 | 23.430 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 100.000

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

MC30

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

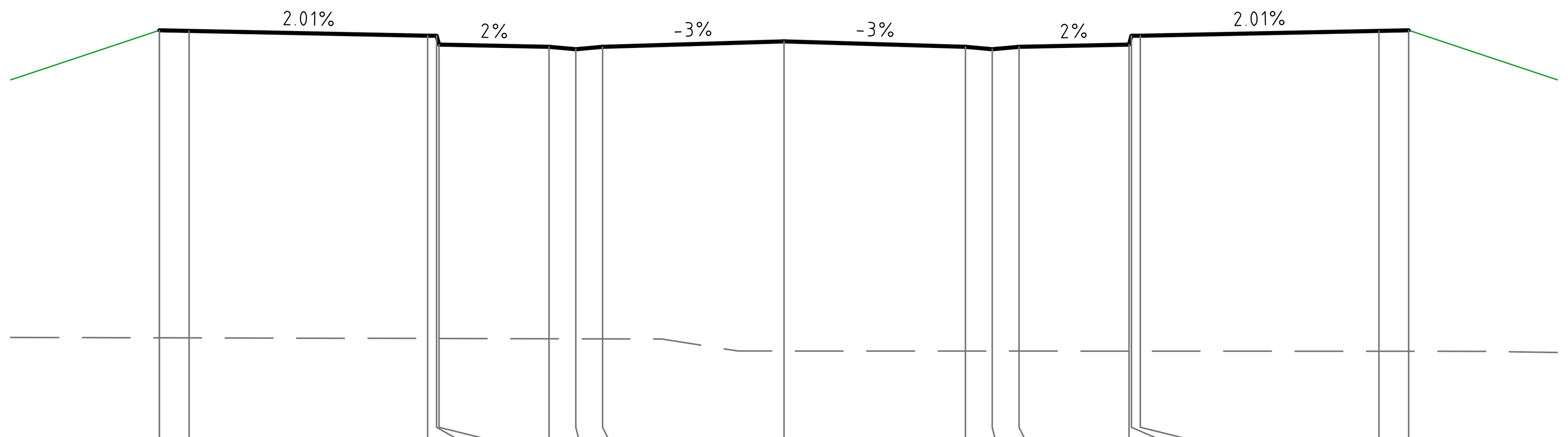
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 30

JOB NUMBER
150077-60

DRAWING NUMBER
C04.110

REVISION
03

DRAWING SHEET SIZE = A1

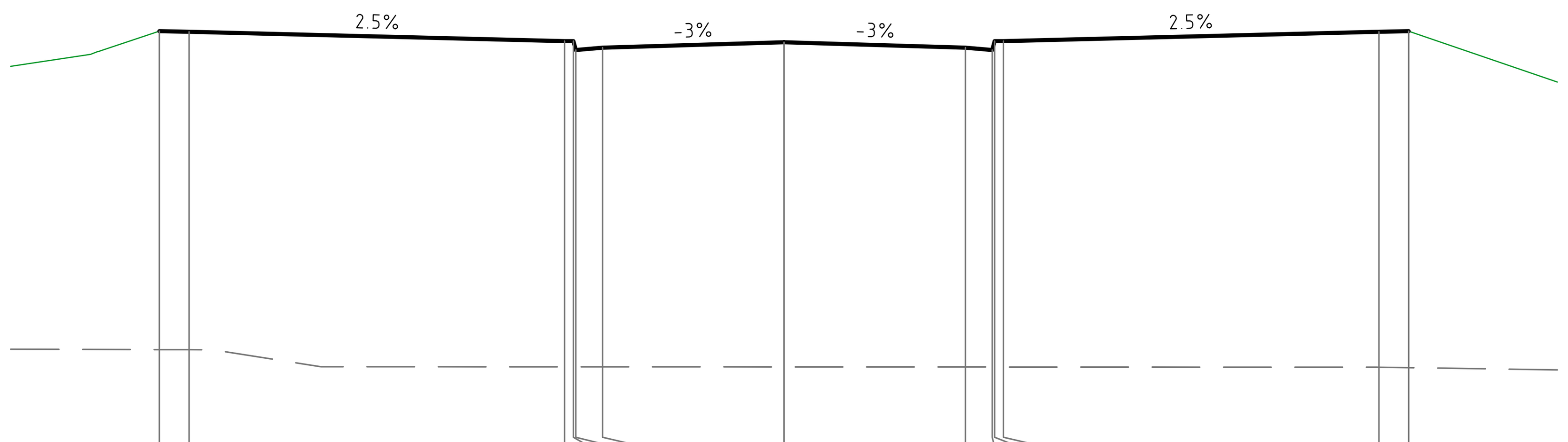



Centreline Data
X = 321306.731
Y = 6257239.802
Z = 26.690

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.876 | 26.866 | 26.785 | 26.785 | 26.635 | 26.598 | 26.558 | 26.598 | 26.690 | 26.598 | 26.558 | 26.598 | 26.635 | 26.785 | 26.785 | 26.866 | 26.876 |
| EXISTING SURFACE | 21.704 | 21.703 | 21.693 | 21.693 | 21.693 | 21.688 | 21.687 | 21.686 | 21.482 | 21.481 | 21.481 | 21.481 | 21.480 | 21.480 | 21.480 | 21.478 | 21.477 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 180.000

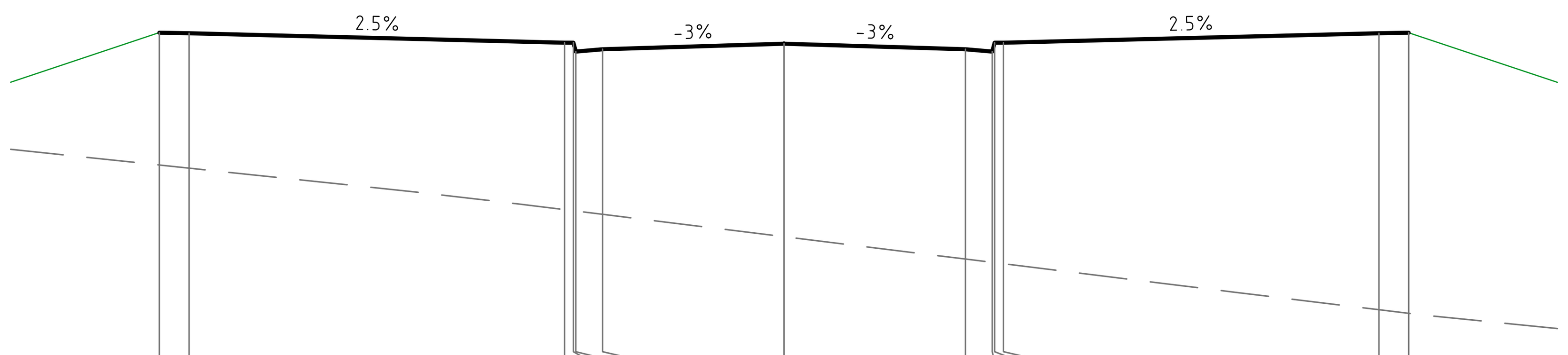



Centreline Data
X = 321302.548
Y = 6257238.539
Z = 26.839

DATUM RL 20.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.025 | 27.015 | 26.858 | 26.858 | 26.708 | 26.748 | 26.839 | 26.748 | 26.708 | 26.858 | 26.858 | 27.015 | 27.025 |
| EXISTING SURFACE | 21.673 | 21.672 | 21.383 | 21.383 | 21.383 | 21.383 | 21.382 | 21.381 | 21.381 | 21.381 | 21.381 | 21.377 | 21.369 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 175.631

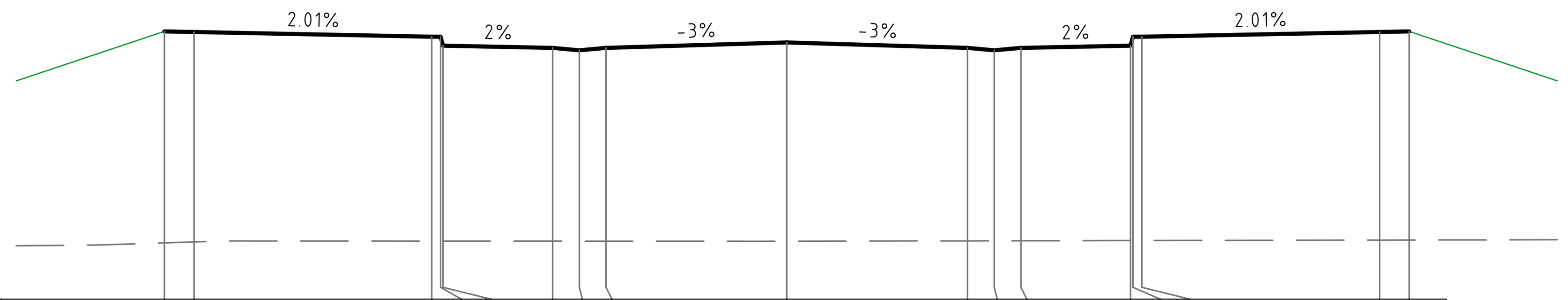



Centreline Data
X = 321256.118
Y = 6257224.521
Z = 27.376

DATUM RL 22.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.562 | 27.552 | 27.394 | 27.394 | 27.244 | 27.284 | 27.376 | 27.284 | 27.244 | 27.394 | 27.394 | 27.552 | 27.562 |
| EXISTING SURFACE | 25.338 | 25.285 | 24.588 | 24.569 | 24.564 | 24.509 | 24.133 | 23.757 | 23.702 | 23.697 | 23.678 | 22.905 | 22.845 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 127.131

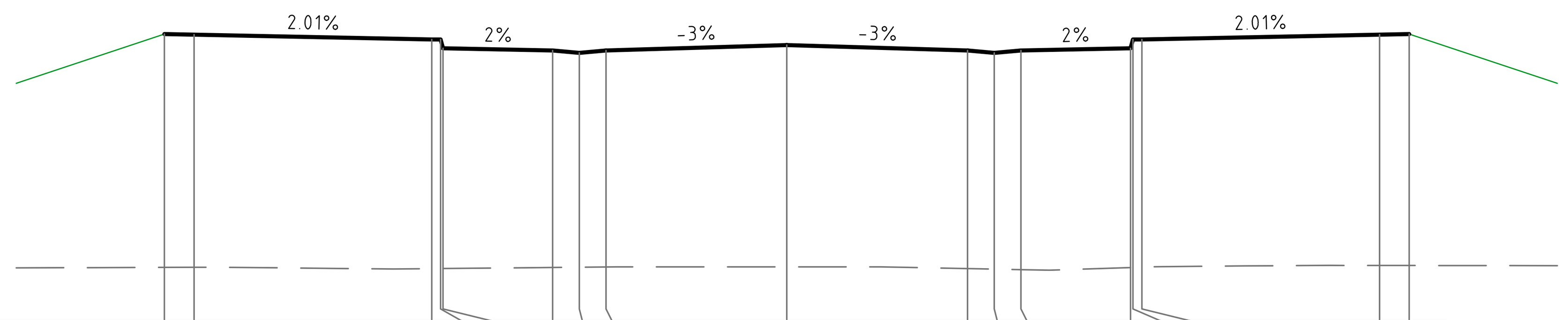



Centreline Data
X = 321345.023
Y = 6257251.363
Z = 25.322

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.508 | 25.498 | 25.417 | 25.417 | 25.267 | 25.230 | 25.190 | 25.230 | 25.322 | 25.230 | 25.190 | 25.230 | 25.267 | 25.417 | 25.417 | 25.498 | 25.508 |
| EXISTING SURFACE | 21.948 | 21.964 | 21.978 | 21.978 | 21.978 | 21.977 | 21.976 | 21.976 | 21.976 | 21.981 | 21.982 | 21.983 | 21.987 | 21.987 | 21.987 | 21.995 | 21.996 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 220.000

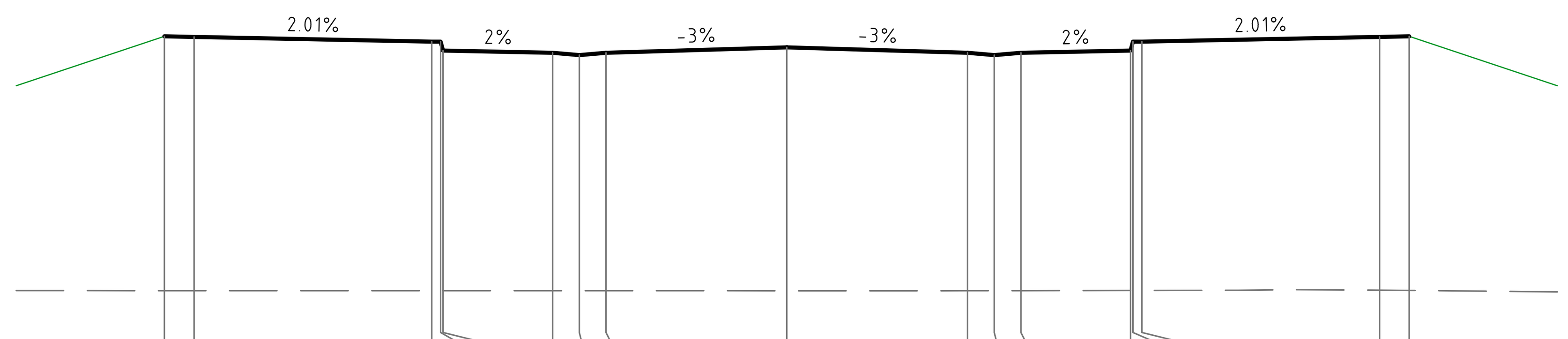



Centreline Data
X = 321335.450
Y = 6257248.473
Z = 25.664

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.850 | 25.840 | 25.759 | 25.759 | 25.609 | 25.572 | 25.532 | 25.572 | 25.664 | 25.572 | 25.532 | 25.572 | 25.609 | 25.759 | 25.759 | 25.840 | 25.850 |
| EXISTING SURFACE | 21.903 | 21.904 | 21.882 | 21.884 | 21.884 | 21.902 | 21.906 | 21.910 | 21.912 | 21.883 | 21.874 | 21.865 | 21.900 | 21.901 | 21.906 | 21.936 | 21.935 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 210.000

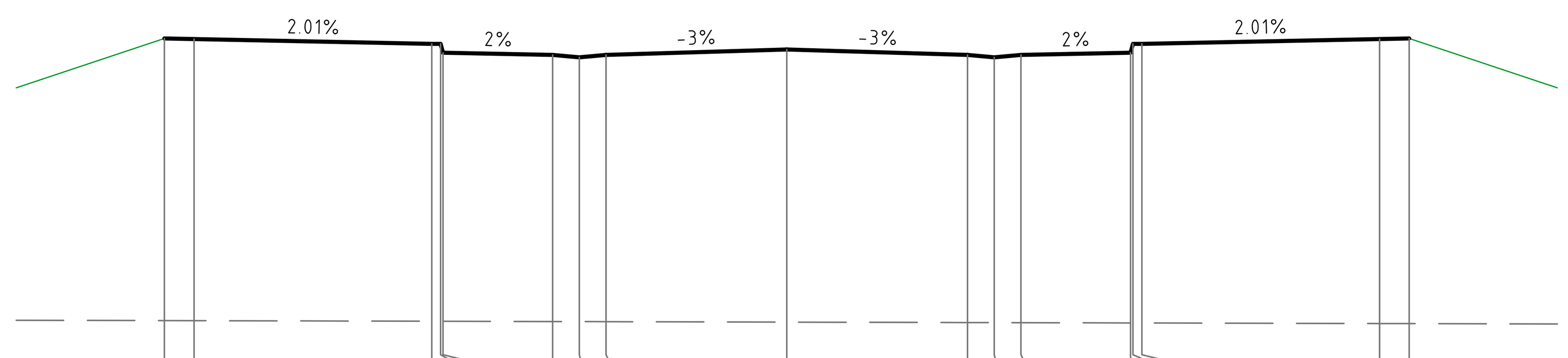



Centreline Data
X = 321325.877
Y = 6257245.582
Z = 26.006

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.192 | 26.182 | 26.101 | 26.101 | 25.951 | 25.914 | 25.874 | 25.914 | 26.006 | 25.914 | 25.874 | 25.914 | 25.951 | 26.101 | 26.101 | 26.182 | 26.192 |
| EXISTING SURFACE | 21.905 | 21.905 | 21.904 | 21.904 | 21.904 | 21.904 | 21.904 | 21.903 | 21.903 | 21.903 | 21.904 | 21.905 | 21.907 | 21.908 | 21.908 | 21.912 | 21.908 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 200.000




Centreline Data
X = 321316.304
Y = 6257242.692
Z = 26.348

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.534 | 26.524 | 26.443 | 26.443 | 26.293 | 26.256 | 26.216 | 26.256 | 26.348 | 26.256 | 26.216 | 26.256 | 26.293 | 26.443 | 26.443 | 26.524 | 26.534 |
| EXISTING SURFACE | 21.775 | 21.774 | 21.764 | 21.764 | 21.764 | 21.759 | 21.758 | 21.757 | 21.750 | 21.742 | 21.741 | 21.740 | 21.736 | 21.736 | 21.735 | 21.726 | 21.724 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 190.000

MC30

NOT FOR CONSTRUCTION

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

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SCALE 1:100 @ A1
0 1 2 3 4 5m

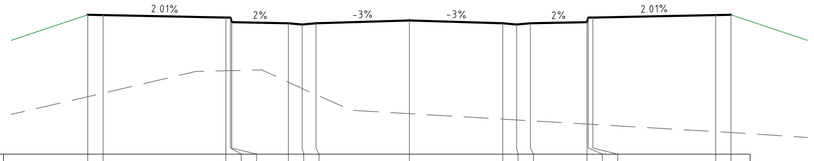
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 31

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.111
REVISION: 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

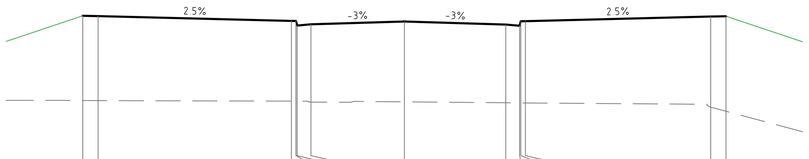



Centreline Data
X = 321402.462
Y = 6257268.705
Z = 24.364

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.550 | 24.540 | | | | 24.459 | 24.459 | 24.309 | 24.272 | 24.232 | 24.272 | | | 24.364 | | | 24.272 | 24.232 | 24.272 | | 24.309 | 24.459 | 24.459 | | | 24.540 | 24.550 |
| EXISTING SURFACE | 21.876 | 21.991 | | | | 22.723 | 22.726 | 22.727 | 22.351 | 22.143 | 21.941 | | | 21.322 | | | 21.144 | 21.117 | 21.091 | | 20.982 | 20.980 | 20.971 | | | 20.736 | 20.707 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 280.000

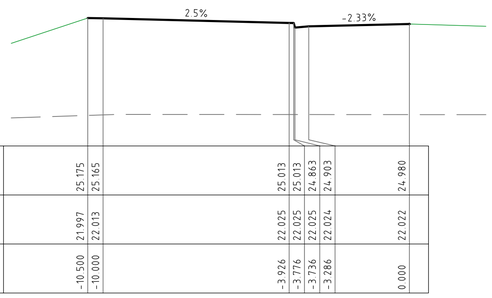



Centreline Data
X = 321392.889
Y = 6257265.814
Z = 24.576

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.762 | 24.752 | | | | | | 24.595 | 24.595 | 24.445 | 24.485 | | | 24.576 | | | 24.477 | 24.437 | 24.587 | 24.587 | | | 24.739 | 24.749 |
| EXISTING SURFACE | 21.999 | 21.997 | | | | | | 21.977 | 21.977 | 21.976 | 21.947 | | | 21.955 | | | 21.925 | 21.920 | 21.920 | 21.919 | | | 21.781 | 21.647 |
| OFFSET | -10.500 | -10.000 | | | | | | -3.690 | -3.540 | -3.500 | -3.050 | | | 0.000 | | | 3.311 | 3.761 | 3.801 | 3.951 | | | 10.000 | 10.500 |

CHAINAGE 270.000

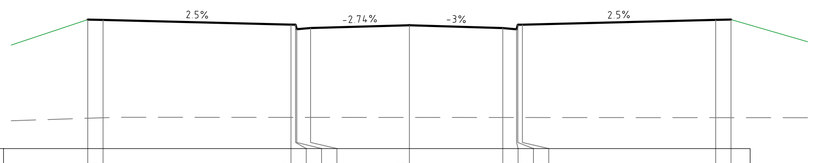



Centreline Data
X = 321354.597
Y = 6257254.253
Z = 24.980

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.175 | 25.165 | | | | | | 25.013 | 25.013 | 24.863 | 24.903 | | | 24.980 | | | | | | | | | |
| EXISTING SURFACE | 21.997 | 22.013 | | | | | | 22.025 | 22.025 | 22.025 | 22.024 | | | 22.022 | | | | | | | | | |
| OFFSET | -10.500 | -10.000 | | | | | | -3.926 | -3.776 | -3.736 | -3.286 | | | 0.000 | | | | | | | | | |

CHAINAGE 230.000

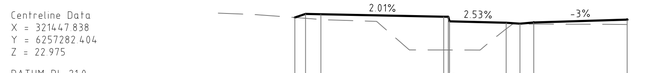



Centreline Data
X = 321353.341
Y = 6257253.874
Z = 25.025

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.210 | 25.200 | | | | | | 25.046 | 25.046 | 24.896 | 24.936 | | | 25.025 | | | 24.933 | 24.893 | 25.043 | 25.043 | | | 25.201 | 25.211 |
| EXISTING SURFACE | 21.990 | 22.007 | | | | | | 22.018 | 22.018 | 22.018 | 22.018 | | | 22.016 | | | 22.014 | 22.014 | 22.014 | 22.014 | | | 22.010 | 22.010 |
| OFFSET | -10.500 | -10.000 | | | | | | -3.866 | -3.716 | -3.676 | -3.226 | | | 0.000 | | | 3.050 | 3.500 | 3.540 | 3.690 | | | 10.000 | 10.500 |

CHAINAGE 228.689




Centreline Data
X = 321447.838
Y = 6257282.404
Z = 22.975

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | 23.045 | 23.161 | 23.151 | | | | | | 23.070 | 23.070 | 22.920 | | 22.874 | 22.843 | 22.883 | | | | 22.975 |
| EXISTING SURFACE | | | | | 23.045 | 23.019 | 22.982 | | | | | | 21.985 | 21.985 | 21.984 | | 22.675 | 22.832 | 22.831 | | | | 22.817 |
| OFFSET | | | | | -10.850 | -10.500 | -10.000 | | | | | | -5.990 | -5.840 | -5.800 | | -3.950 | -3.500 | -3.050 | | | | 0.000 |

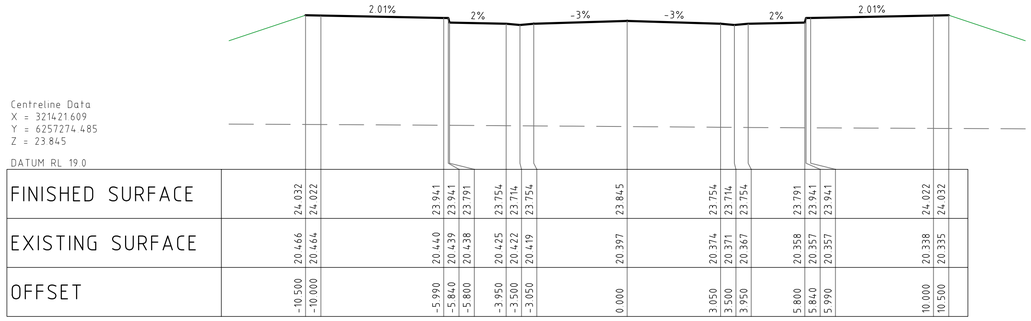
CHAINAGE 327.398

Centreline Data
X = 321440.755
Y = 6257280.266
Z = 23.215

DATUM RL 21.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | 22.949 | | | 23.401 | 23.391 | | | | | | | 23.311 | 23.311 | 23.161 | | 23.124 | 23.084 | 23.124 | | | | 23.215 |
| EXISTING SURFACE | | 22.949 | | | 22.848 | 22.811 | | | | | | | 22.640 | 22.681 | 22.686 | | 22.674 | 22.679 | 22.685 | | | | 22.719 |
| OFFSET | | -11.857 | | | -10.500 | -10.000 | | | | | | | -5.990 | -5.840 | -5.800 | | -3.950 | -3.500 | -3.050 | | | | 0.000 |

CHAINAGE 320.000

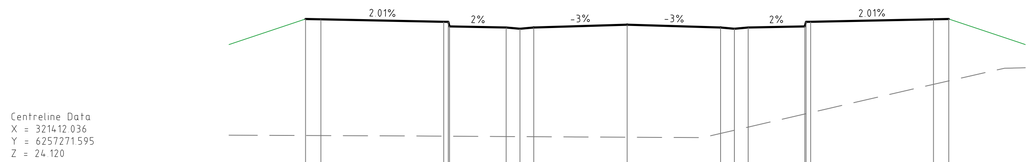



Centreline Data
X = 321421.609
Y = 6257274.485
Z = 23.845

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | 24.032 | 24.022 | | | | 23.941 | 23.941 | 23.791 | 23.754 | | | | 23.845 | | | 23.754 | 23.714 | 23.754 | | 23.791 | 23.941 | 23.941 | | | 24.022 | 24.032 |
| EXISTING SURFACE | | 20.466 | 20.464 | | | | 20.440 | 20.439 | 20.438 | 20.425 | | | | 20.397 | | | 20.374 | 20.371 | 20.367 | | 20.358 | 20.357 | 20.357 | | | 20.338 | 20.335 |
| OFFSET | | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | | | | 0.000 | | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 300.000




Centreline Data
X = 321412.036
Y = 6257271.595
Z = 24.120

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | 24.306 | 24.296 | | | | 24.215 | 24.215 | 24.065 | 24.028 | | | | 24.120 | | | 24.028 | 23.988 | 24.028 | | 24.065 | 24.215 | 24.215 | | | 24.296 | 24.306 |
| EXISTING SURFACE | | 20.504 | 20.502 | | | | 20.483 | 20.482 | 20.481 | 20.470 | | | | 20.448 | | | 20.571 | 20.675 | 20.719 | | 21.206 | 21.215 | 21.250 | | | 22.173 | 22.286 |
| OFFSET | | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | | | | 0.000 | | | 3.050 | 3.500 | 3.950 | | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 290.000

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

MC30

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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SCALE 1:100 @ A1
SCALE 1:100 @ A1
0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 32

JOB NUMBER 150077-60
DRAWING NUMBER C04.112
REVISION 03
DRAWING SHEET SIZE = A1

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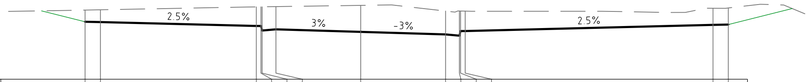
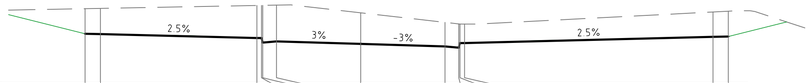



Centreline Data
X = 321029.251
Y = 6257066.562
Z = 30.546

DATUM RL 29.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.876 | 30.866 | | | | | | | | | | | 30.739 | 30.739 | 30.589 | 30.629 | | | 30.546 | | | | 30.463 | 30.423 | 30.573 | 30.573 | | | | | | | | | 30.775 | 30.785 |
| EXISTING SURFACE | 31.258 | 31.267 | | | | | | | | | | | 31.361 | 31.363 | 31.364 | 31.370 | | | 31.411 | | | | 31.226 | 31.228 | 31.227 | 31.223 | | | | | | | | | 31.317 | 31.326 |
| OFFSET | -9.000 | -8.500 | | | | | | | | | | | -3.409 | -3.259 | -3.219 | -2.769 | | | 0.000 | | | | 2.769 | 3.219 | 3.259 | 3.409 | | | | | | | | | 11.500 | 12.000 |

CHAINAGE 50.000

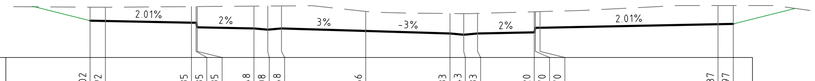



Centreline Data
X = 321019.650
Y = 6257063.765
Z = 31.304

DATUM RL 30.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 31.634 | 31.624 | | | | | | | | | | | 31.497 | 31.497 | 31.347 | 31.387 | | | 31.304 | | | | 31.222 | 31.182 | 31.332 | 31.332 | | | | | | | | | 31.534 | 31.544 |
| EXISTING SURFACE | 32.454 | 32.463 | | | | | | | | | | | 32.559 | 32.562 | 32.563 | 32.571 | | | 32.319 | | | | 32.007 | 31.956 | 31.952 | 31.952 | | | | | | | | | 32.347 | 32.372 |
| OFFSET | -9.000 | -8.500 | | | | | | | | | | | -3.390 | -3.240 | -3.200 | -2.750 | | | 0.000 | | | | 2.750 | 3.200 | 3.240 | 3.390 | | | | | | | | | 11.500 | 12.000 |

CHAINAGE 40.000

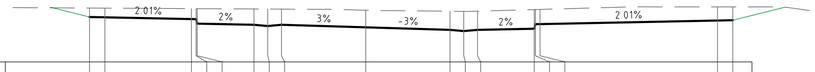



Centreline Data
X = 321013.088
Y = 6257061.853
Z = 31.866

DATUM RL 31.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.202 | 32.192 | | | | | | | | | | | 32.135 | 32.135 | 31.985 | 31.948 | | | 31.908 | 31.948 | | | 31.866 | | | | 31.783 | 31.743 | 31.783 | | | | 31.820 | 31.970 | 31.970 | | | | 32.087 | 32.097 |
| EXISTING SURFACE | 32.643 | 32.640 | | | | | | | | | | | 32.661 | 32.662 | 32.662 | 32.676 | | | 32.680 | 32.683 | | | 32.503 | | | | 32.436 | 32.431 | 32.439 | | | | 32.492 | 32.493 | 32.498 | | | | 32.696 | 32.697 |
| OFFSET | -9.000 | -8.500 | | | | | | | | | | | -5.690 | -5.540 | -5.500 | -3.650 | | | -3.200 | -2.750 | | | 0.000 | | | | 2.750 | 3.200 | 3.650 | | | | 5.500 | 5.540 | 5.690 | | | | 11.500 | 12.000 |

CHAINAGE 33.166

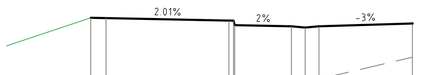



Centreline Data
X = 321010.054
Y = 6257060.951
Z = 32.129

DATUM RL 31.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 32.465 | 32.455 | | | | | | | | | | | 32.398 | 32.398 | 32.248 | 32.211 | | | 32.171 | 32.211 | | | 32.129 | | | | 32.046 | 32.006 | 32.046 | | | | 32.083 | 32.233 | 32.233 | | | | 32.350 | 32.360 |
| EXISTING SURFACE | 32.758 | 32.755 | | | | | | | | | | | 32.739 | 32.738 | 32.738 | 32.728 | | | 32.725 | 32.723 | | | 32.686 | | | | 32.653 | 32.649 | 32.656 | | | | 32.708 | 32.709 | 32.713 | | | | 32.795 | 32.795 |
| OFFSET | -9.017 | -8.517 | | | | | | | | | | | -5.690 | -5.540 | -5.500 | -3.650 | | | -3.200 | -2.750 | | | 0.000 | | | | 2.750 | 3.200 | 3.650 | | | | 5.500 | 5.540 | 5.690 | | | | 11.484 | 11.984 |

CHAINAGE 30.000



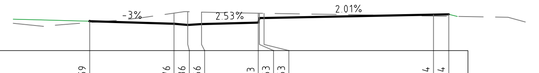

Centreline Data
X = 321431.182
Y = 6257277.376
Z = 23.539

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.726 | 23.716 | | | | | | | | | | | 23.635 | 23.635 | 23.485 | 23.448 | | | 23.408 | 23.448 | | | 23.539 | | | | | | | | | | | | | | | | | |
| EXISTING SURFACE | 20.473 | 20.468 | | | | | | | | | | | 21.035 | 21.070 | 21.079 | 21.513 | | | 21.619 | 21.724 | | | 22.440 | | | | | | | | | | | | | | | | | |
| OFFSET | -10.500 | -10.000 | | | | | | | | | | | -5.990 | -5.840 | -5.800 | -3.950 | | | -3.500 | -3.050 | | | 0.000 | | | | | | | | | | | | | | | | | |

CHAINAGE 310.000

MC30




Centreline Data
X = 321000.533
Y = 6257057.894
Z = 32.959

DATUM RL 32.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | 32.959 | | | | | | 32.876 | 32.836 | 32.866 | | 32.913 | 33.063 | 33.063 | | | | | | | | | | 33.174 | 33.184 |
| EXISTING SURFACE | | | | | | | | | | | | | 32.917 | | | | | | 33.222 | 33.272 | 33.255 | | 33.219 | 33.219 | 33.216 | | | | | | | | | | 33.127 | 33.119 |
| OFFSET | | | | | | | | | | | | | 0.000 | | | | | | 2.750 | 3.200 | 3.650 | | 5.500 | 5.540 | 5.690 | | | | | | | | | | 11.222 | 11.722 |

CHAINAGE 20.000

MC40

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

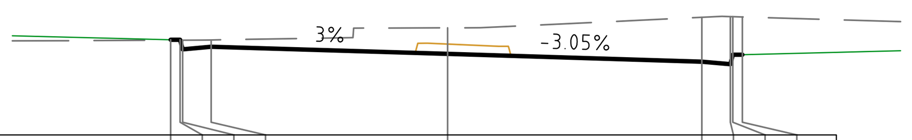
DRAWING TITLE
CIVIL ENGINEERING PACKAGE

CROSS SECTIONS SHEET 33

JOB NUMBER 150077-60
DRAWING NUMBER C04.113
REVISION 03
DRAWING SHEET SIZE = A1

Centreline Data
X = 321048.413
Y = 6257072.290
Z = 29.277

DATUM RL 28.0

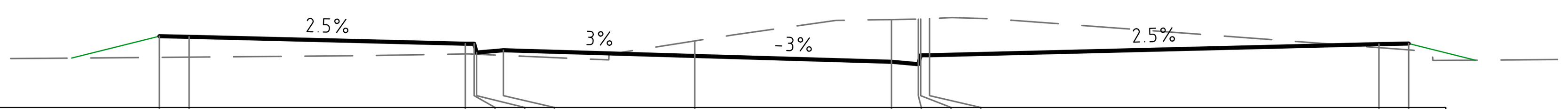



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.499 | 29.499 | 29.349 | 29.389 | 29.277 | 29.154 | 29.114 | 29.264 | 29.264 |
| EXISTING SURFACE | 29.492 | 29.493 | 29.493 | 29.496 | 29.687 | 29.852 | 29.864 | 29.862 | 29.858 |
| OFFSET | -4.376 | -4.226 | -4.186 | -3.736 | 0.000 | 4.016 | 4.466 | 4.506 | 4.656 |

CHAINAGE 70.000

Centreline Data
X = 321038.839
Y = 6257069.400
Z = 29.870

DATUM RL 29.0

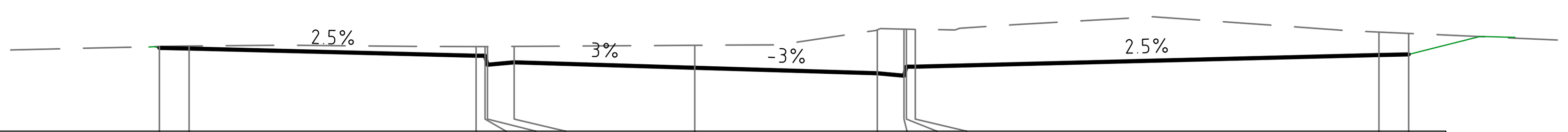



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.203 | 30.193 | 30.077 | 30.077 | 29.927 | 29.967 | 29.870 | 29.771 | 29.731 | 29.881 | 29.881 | 30.070 | 30.080 |
| EXISTING SURFACE | 29.846 | 29.850 | 29.905 | 29.900 | 29.898 | 29.879 | 30.124 | 30.485 | 30.492 | 30.493 | 30.500 | 30.010 | 29.973 |
| OFFSET | -9.000 | -8.500 | -3.858 | -3.708 | -3.668 | -3.218 | 0.000 | 3.308 | 3.758 | 3.798 | 3.948 | 11.500 | 12.000 |

CHAINAGE 60.000

Centreline Data
X = 321036.065
Y = 6257068.562
Z = 30.058

DATUM RL 29.0

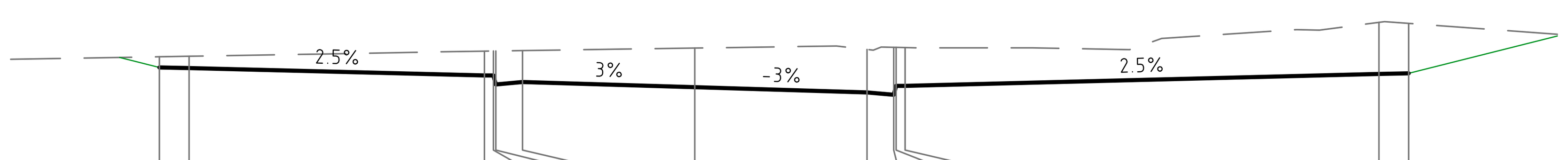



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.389 | 30.379 | 30.259 | 30.259 | 30.109 | 30.149 | 30.058 | 29.966 | 29.926 | 30.076 | 30.076 | 30.270 | 30.280 |
| EXISTING SURFACE | 30.412 | 30.421 | 30.411 | 30.411 | 30.412 | 30.414 | 30.433 | 30.692 | 30.703 | 30.702 | 30.698 | 30.654 | 30.632 |
| OFFSET | -9.000 | -8.500 | -3.675 | -3.525 | -3.485 | -3.035 | 0.000 | 3.067 | 3.517 | 3.557 | 3.707 | 11.500 | 12.000 |

CHAINAGE 57.102

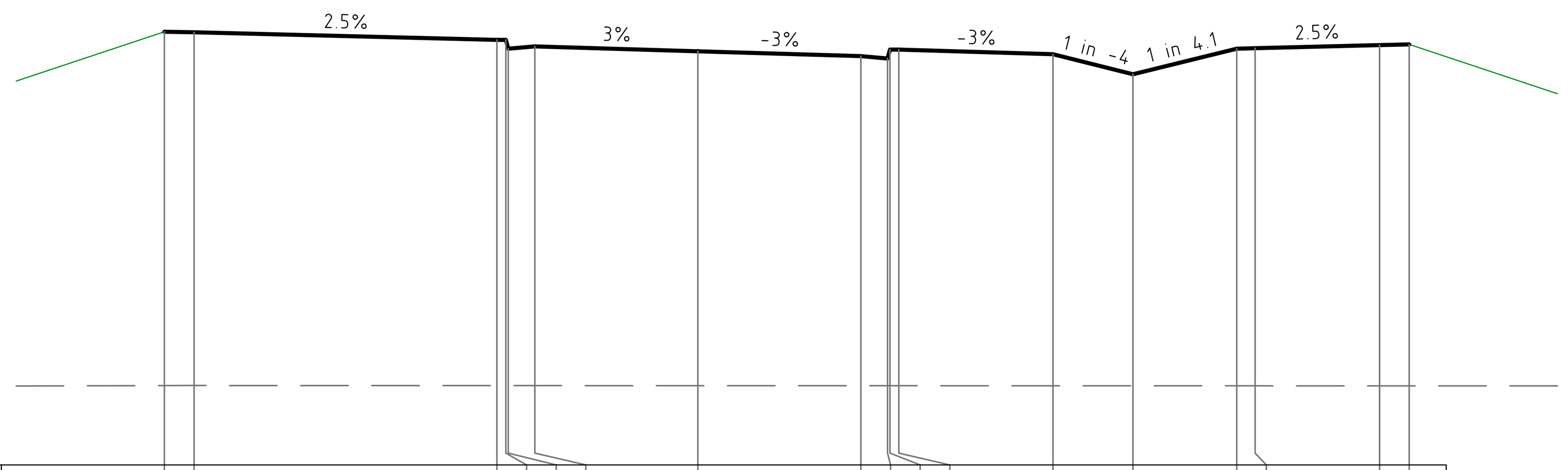
Centreline Data
X = 321033.273
Y = 6257067.734
Z = 30.253

DATUM RL 29.0




| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.584 | 30.574 | 30.450 | 30.450 | 30.300 | 30.340 | 30.253 | 30.166 | 30.126 | 30.276 | 30.276 | 30.475 | 30.485 |
| EXISTING SURFACE | 30.762 | 30.771 | 30.856 | 30.859 | 30.859 | 30.866 | 30.908 | 30.885 | 30.921 | 30.920 | 30.916 | 31.339 | 31.321 |
| OFFSET | -9.000 | -8.500 | -3.535 | -3.385 | -3.345 | -2.895 | 0.000 | 2.895 | 3.345 | 3.385 | 3.535 | 11.500 | 12.000 |

CHAINAGE 54.189

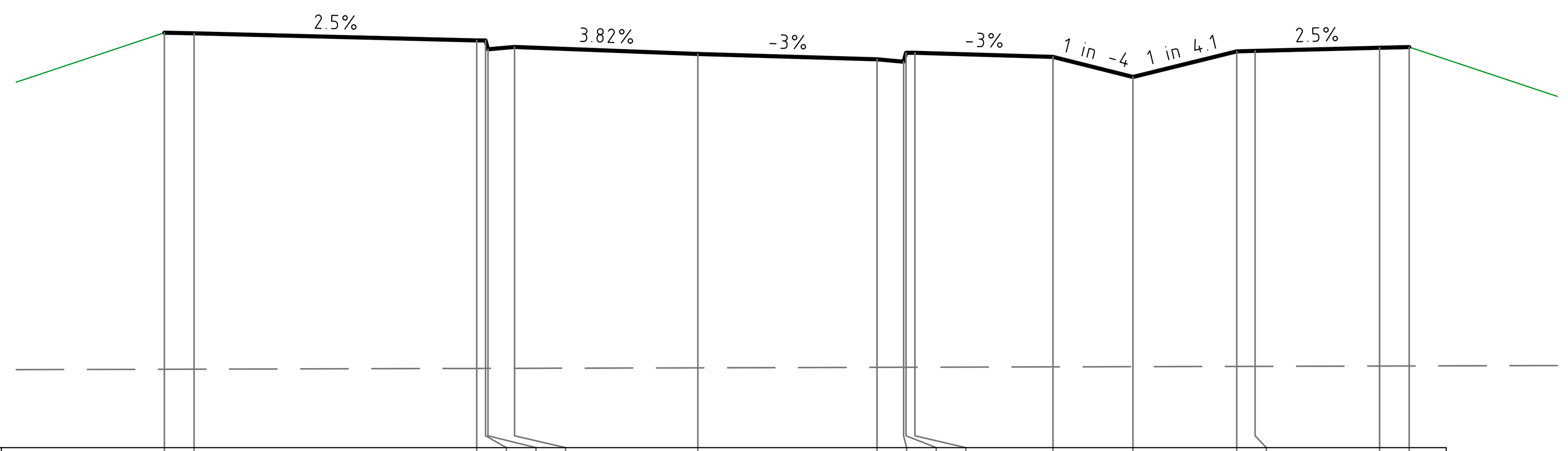



Centreline Data
X = 321096.279
Y = 6257086.742
Z = 29.991

DATUM RL 23.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.321 | 30.311 | 30.184 | 30.184 | 30.034 | 30.074 | 29.991 | 29.909 | 29.869 | 30.019 | 30.019 | 29.941 | 29.603 | 30.035 | 30.042 | 30.095 | 30.107 |
| EXISTING SURFACE | 24.342 | 24.343 | 24.341 | 24.341 | 24.341 | 24.341 | 24.340 | 24.339 | 24.339 | 24.339 | 24.339 | 24.338 | 24.338 | 24.338 | 24.338 | 24.337 | 24.337 |
| OFFSET | -9.000 | -8.500 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 120.000

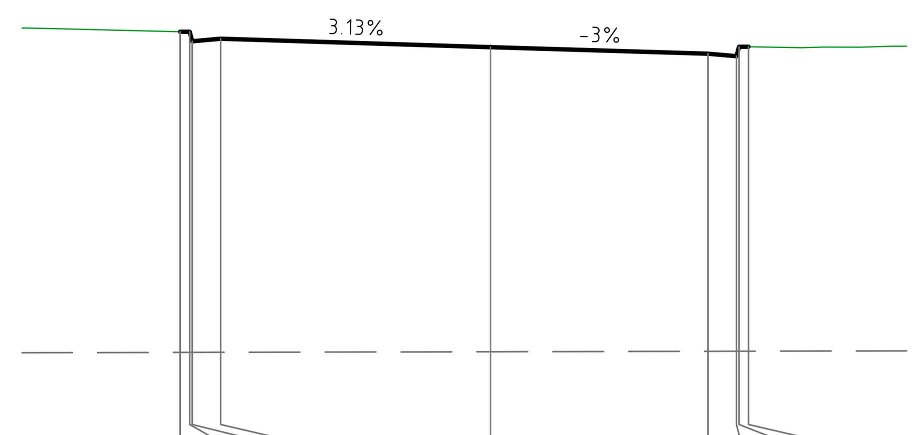



Centreline Data
X = 321086.705
Y = 6257083.851
Z = 29.644

DATUM RL 23.0

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 30.001 | 29.991 | 29.872 | 29.872 | 29.722 | 29.762 | 29.644 | 29.553 | 29.513 | 29.663 | 29.663 | 29.593 | 29.256 | 29.687 | 29.695 | 29.748 | 29.760 |
| EXISTING SURFACE | 24.323 | 24.324 | 24.337 | 24.337 | 24.338 | 24.339 | 24.347 | 24.355 | 24.356 | 24.356 | 24.357 | 24.363 | 24.366 | 24.371 | 24.372 | 24.377 | 24.379 |
| OFFSET | -9.000 | -8.500 | -3.732 | -3.582 | -3.542 | -3.092 | 0.000 | 3.021 | 3.471 | 3.511 | 3.661 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 110.000




Centreline Data
X = 321077.132
Y = 6257080.961
Z = 29.164

DATUM RL 23.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 29.408 | 29.408 | 29.258 | 29.298 | 29.164 | 29.061 | 29.021 | 29.171 | 29.171 |
| EXISTING SURFACE | 24.340 | 24.340 | 24.340 | 24.341 | 24.350 | 24.357 | 24.358 | 24.358 | 24.358 |
| OFFSET | -4.909 | -4.759 | -4.719 | -4.269 | 0.000 | 3.439 | 3.889 | 3.929 | 4.079 |

CHAINAGE 100.000

MC40

NOT FOR CONSTRUCTION

DRAWN: B.MAZZA  DESIGNED: A.RIVETT  JOB MANAGER: P.SUTTON  VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

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SCALE 1:100 @ A1
SCALE 1:100 @ A1
0 1 2 3 4 5m

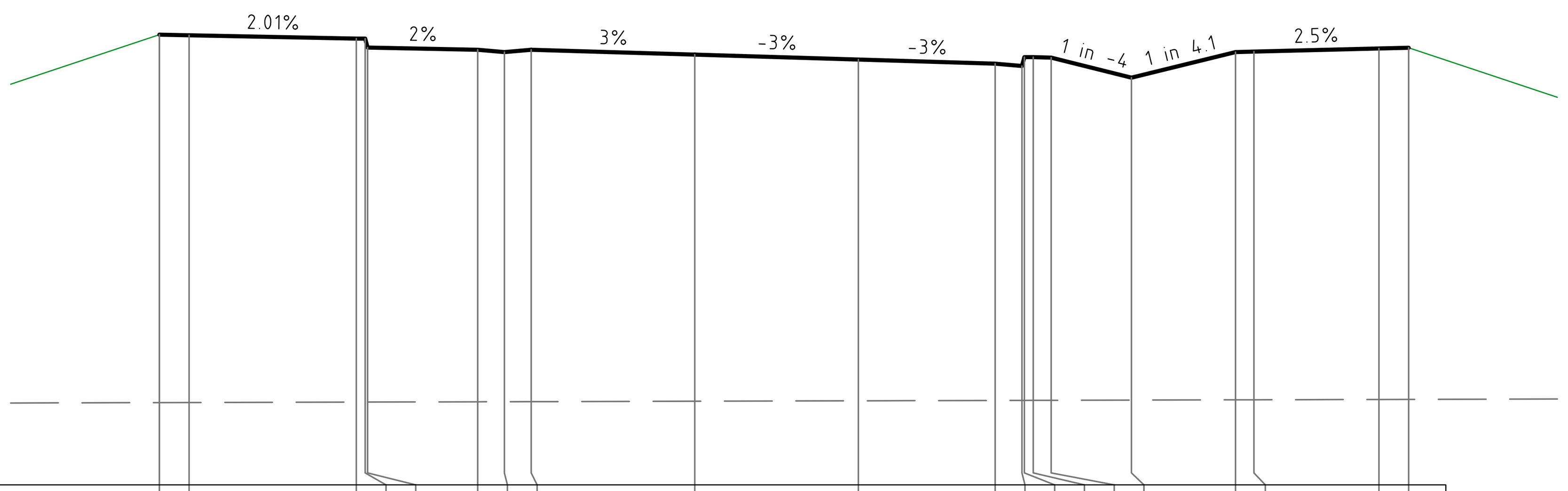
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 34

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.114
REVISION: 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

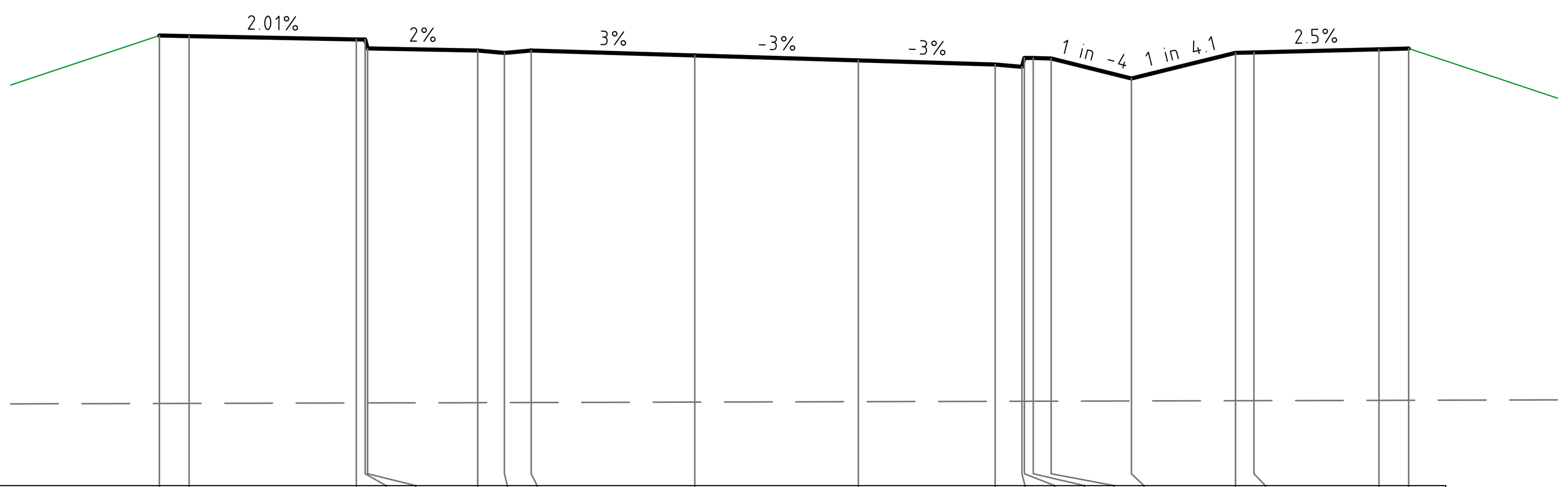



Centreline Data
X = 321115.425
Y = 6257092.522
Z = 30.236

DATUM RL 23.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -9.000 | 30.572 | 24.383 |
| -8.500 | 30.562 | 24.384 |
| -5.690 | 30.505 | 24.392 |
| -5.540 | 30.505 | 24.392 |
| -5.500 | 30.355 | 24.392 |
| -3.650 | 30.318 | 24.397 |
| -3.200 | 30.278 | 24.398 |
| -2.750 | 30.318 | 24.399 |
| 0.000 | 30.236 | 24.406 |
| 2.750 | 30.153 | 24.413 |
| 5.050 | 30.084 | 24.419 |
| 5.500 | 30.044 | 24.420 |
| 5.540 | 30.194 | 24.421 |
| 5.690 | 30.194 | 24.421 |
| 5.990 | 30.185 | 24.422 |
| 7.340 | 29.848 | 24.425 |
| 9.090 | 30.279 | 24.430 |
| 9.400 | 30.287 | 24.431 |
| 11.500 | 30.340 | 24.436 |
| 12.000 | 30.352 | 24.437 |

CHAINAGE 140.000

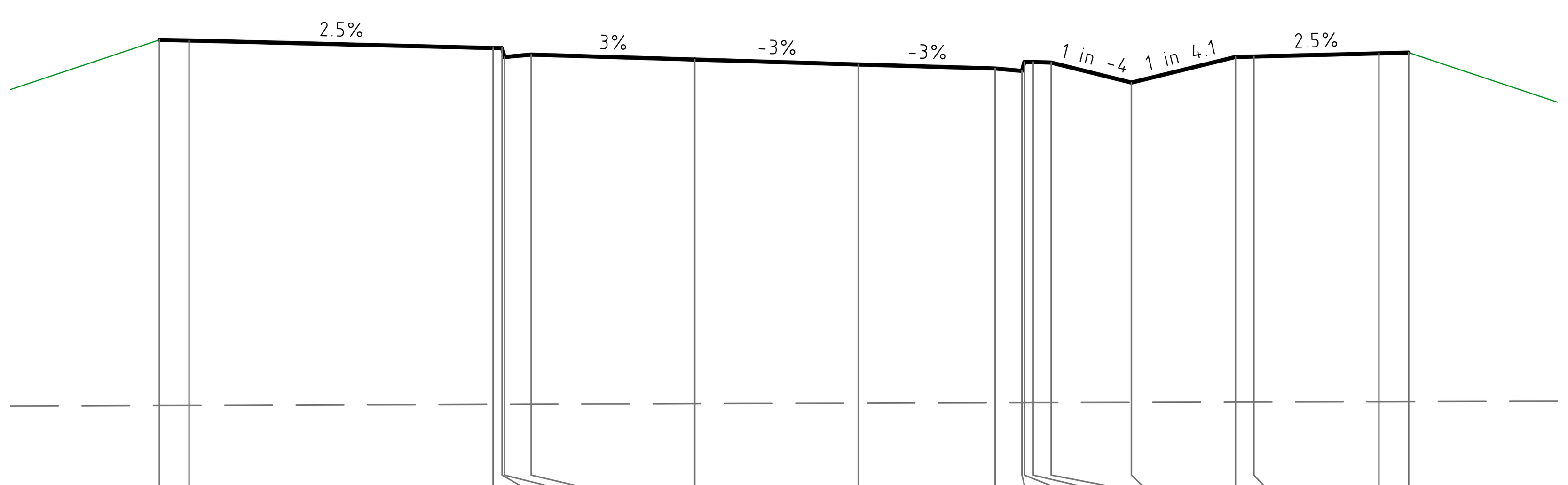



Centreline Data
X = 321113.658
Y = 6257091.989
Z = 30.238

DATUM RL 23.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -9.000 | 30.574 | 24.382 |
| -8.500 | 30.564 | 24.383 |
| -5.690 | 30.508 | 24.390 |
| -5.540 | 30.508 | 24.391 |
| -5.500 | 30.358 | 24.391 |
| -3.650 | 30.321 | 24.396 |
| -3.200 | 30.281 | 24.397 |
| -2.750 | 30.321 | 24.398 |
| 0.000 | 30.238 | 24.405 |
| 2.750 | 30.156 | 24.412 |
| 5.050 | 30.087 | 24.418 |
| 5.500 | 30.047 | 24.419 |
| 5.540 | 30.197 | 24.419 |
| 5.690 | 30.197 | 24.420 |
| 5.990 | 30.188 | 24.420 |
| 7.340 | 29.850 | 24.424 |
| 9.090 | 30.282 | 24.428 |
| 9.400 | 30.290 | 24.429 |
| 11.500 | 30.342 | 24.435 |
| 12.000 | 30.355 | 24.436 |

CHAINAGE 138.154

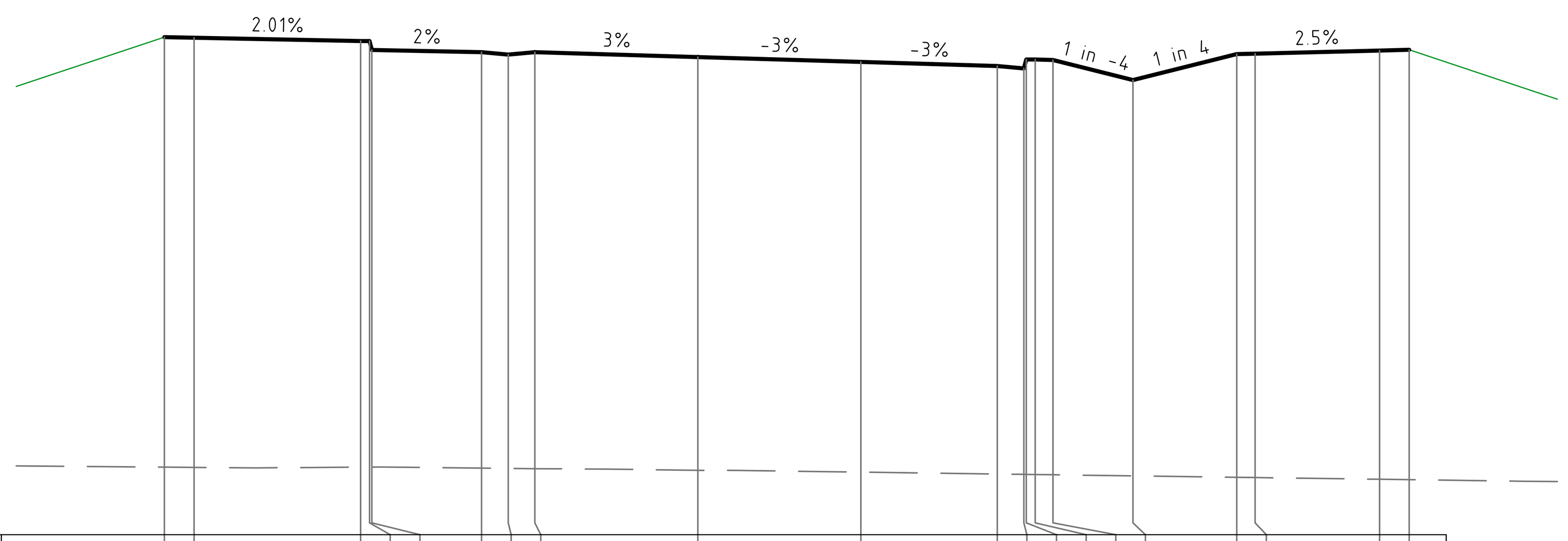



Centreline Data
X = 321105.852
Y = 6257089.632
Z = 30.189

DATUM RL 23.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -9.000 | 30.519 | 24.373 |
| -8.500 | 30.509 | 24.375 |
| -3.390 | 30.381 | 24.392 |
| -3.240 | 30.381 | 24.392 |
| -3.200 | 30.231 | 24.393 |
| -2.750 | 30.271 | 24.394 |
| 0.000 | 30.189 | 24.403 |
| 2.750 | 30.106 | 24.412 |
| 5.050 | 30.037 | 24.418 |
| 5.500 | 29.997 | 24.420 |
| 5.540 | 30.147 | 24.420 |
| 5.690 | 30.147 | 24.420 |
| 5.990 | 30.138 | 24.421 |
| 7.340 | 29.801 | 24.424 |
| 9.090 | 30.232 | 24.429 |
| 9.400 | 30.240 | 24.430 |
| 11.500 | 30.292 | 24.435 |
| 12.000 | 30.305 | 24.436 |

CHAINAGE 130.000

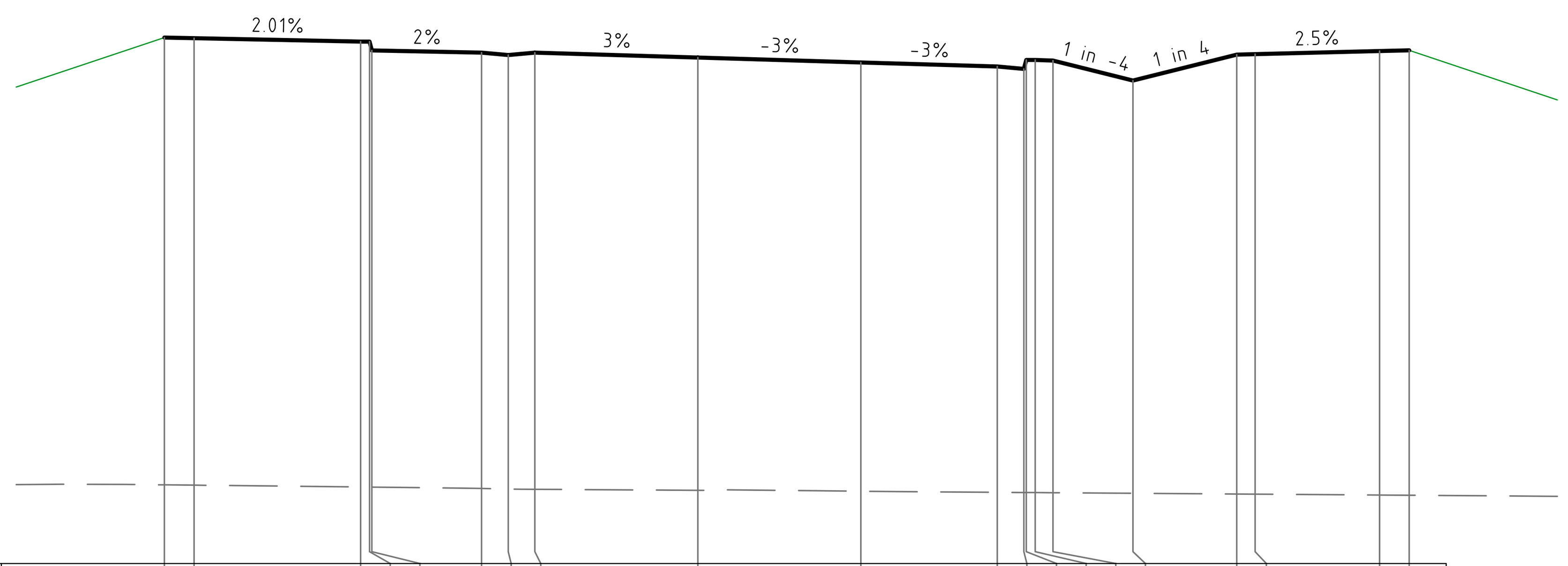



Centreline Data
X = 321201.584
Y = 6257118.535
Z = 28.066

DATUM RL 20.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -9.000 | 28.402 | 21.141 |
| -8.500 | 28.392 | 21.137 |
| -5.690 | 28.336 | 21.141 |
| -5.540 | 28.336 | 21.142 |
| -5.500 | 28.186 | 21.143 |
| -3.650 | 28.149 | 21.125 |
| -3.200 | 28.109 | 21.120 |
| -2.750 | 28.149 | 21.116 |
| 0.000 | 28.066 | 21.087 |
| 2.750 | 27.984 | 21.057 |
| 5.050 | 27.915 | 21.025 |
| 5.500 | 27.875 | 21.019 |
| 5.540 | 28.025 | 21.019 |
| 5.690 | 28.025 | 21.016 |
| 5.990 | 28.016 | 21.012 |
| 7.340 | 27.678 | 20.994 |
| 9.090 | 28.116 | 20.970 |
| 9.400 | 28.124 | 20.965 |
| 11.500 | 28.176 | 20.936 |
| 12.000 | 28.189 | 20.929 |

CHAINAGE 230.000

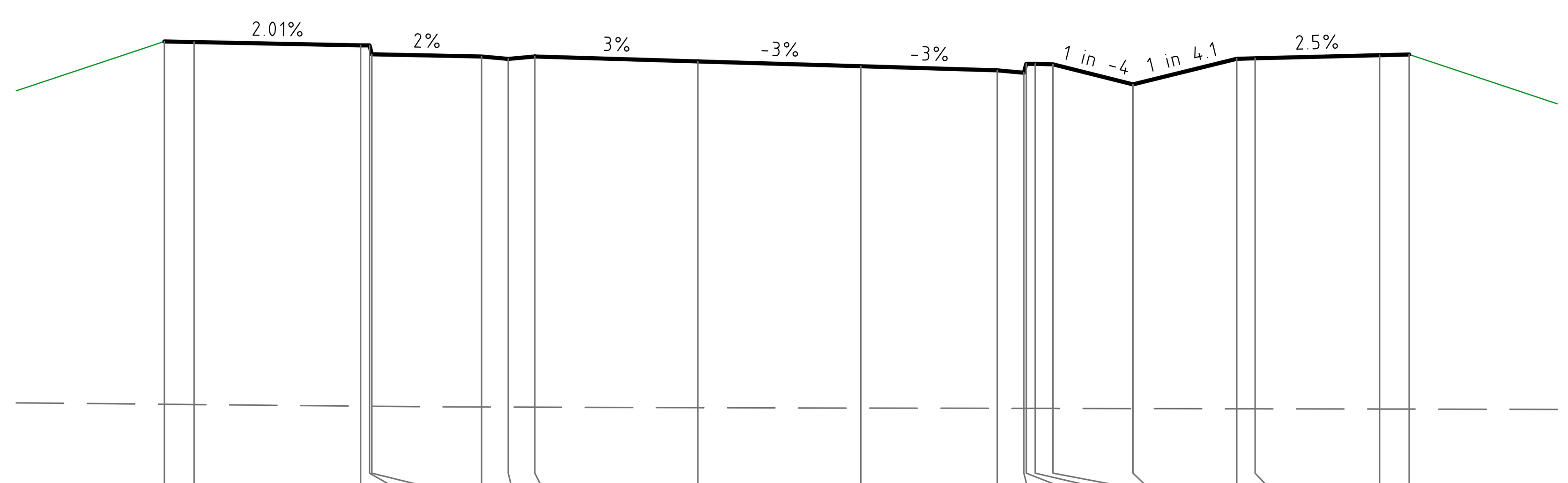



Centreline Data
X = 321192.010
Y = 6257115.645
Z = 28.534

DATUM RL 20.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -9.000 | 28.870 | 21.327 |
| -8.500 | 28.860 | 21.322 |
| -5.690 | 28.804 | 21.291 |
| -5.540 | 28.804 | 21.289 |
| -5.500 | 28.654 | 21.289 |
| -3.650 | 28.617 | 21.266 |
| -3.200 | 28.577 | 21.257 |
| -2.750 | 28.617 | 21.252 |
| 0.000 | 28.534 | 21.235 |
| 2.750 | 28.452 | 21.220 |
| 5.050 | 28.383 | 21.201 |
| 5.500 | 28.343 | 21.198 |
| 5.540 | 28.493 | 21.198 |
| 5.690 | 28.493 | 21.196 |
| 5.990 | 28.484 | 21.194 |
| 7.340 | 28.146 | 21.185 |
| 9.090 | 28.584 | 21.172 |
| 9.400 | 28.592 | 21.170 |
| 11.500 | 28.644 | 21.155 |
| 12.000 | 28.657 | 21.151 |

CHAINAGE 220.000




Centreline Data
X = 321124.998
Y = 6257095.413
Z = 30.153

DATUM RL 23.0

| OFFSET | FINISHED SURFACE | EXISTING SURFACE |
|---|---|---|
| -9.000 | 30.489 | 24.364 |
| -8.500 | 30.479 | 24.359 |
| -5.690 | 30.423 | 24.332 |
| -5.540 | 30.423 | 24.330 |
| -5.500 | 30.273 | 24.330 |
| -3.650 | 30.236 | 24.317 |
| -3.200 | 30.196 | 24.316 |
| -2.750 | 30.236 | 24.314 |
| 0.000 | 30.153 | 24.305 |
| 2.750 | 30.071 | 24.299 |
| 5.050 | 30.002 | 24.295 |
| 5.500 | 29.962 | 24.294 |
| 5.540 | 30.112 | 24.294 |
| 5.690 | 30.112 | 24.294 |
| 5.990 | 30.103 | 24.293 |
| 7.340 | 29.765 | 24.291 |
| 9.090 | 30.197 | 24.287 |
| 9.400 | 30.205 | 24.287 |
| 11.500 | 30.257 | 24.283 |
| 12.000 | 30.270 | 24.282 |

CHAINAGE 150.000

MC40

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

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SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

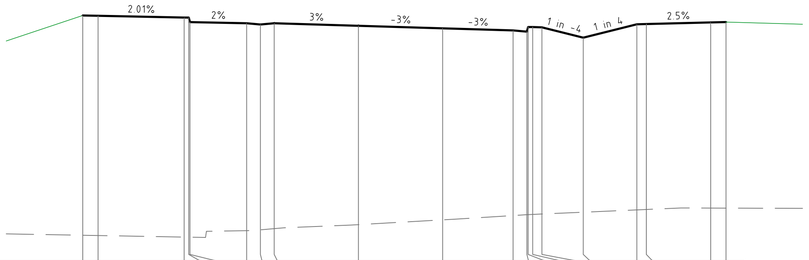
CROSS SECTIONS SHEET 35

JOB NUMBER: 150077-60

DRAWING NUMBER: C04.115 REVISION: 03

DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

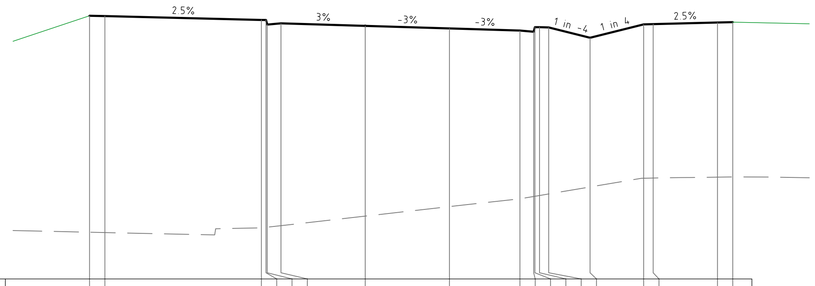



Centreline Data
X = 321230.303
Y = 6257127.206
Z = 26.663

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.999 | 26.989 | 26.932 | 26.932 | 26.782 | 26.745 | 26.705 | 26.745 | 26.663 | 26.580 | 26.511 | 26.471 | 26.621 | 26.621 | 26.612 | 26.275 | 26.712 | 26.720 | 26.772 | 26.785 |
| EXISTING SURFACE | 19.825 | 19.816 | 19.766 | 19.763 | 19.762 | 19.976 | 20.003 | 20.042 | 20.172 | 20.328 | 20.469 | 20.497 | 20.499 | 20.506 | 20.519 | 20.577 | 20.653 | 20.667 | 20.713 | 20.711 |
| OFFSET | -9.000 | -8.500 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 260.000

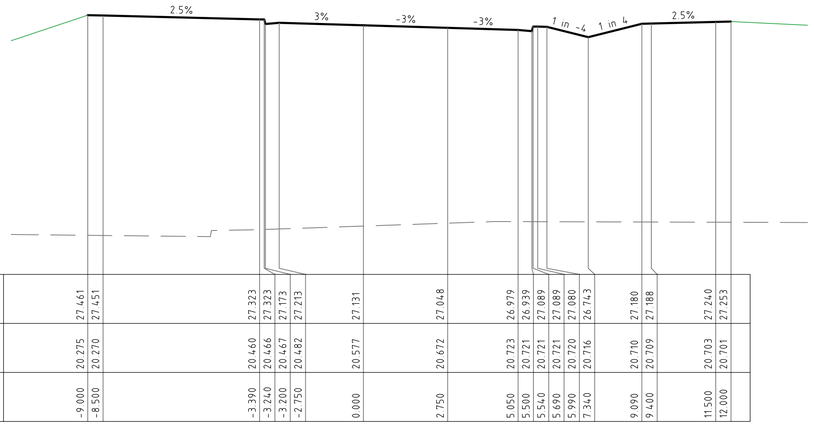



Centreline Data
X = 321259.023
Y = 6257135.877
Z = 25.259

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.589 | 25.579 | 25.451 | 25.451 | 25.341 | 25.259 | 25.176 | 25.107 | 25.047 | 25.217 | 25.217 | 25.208 | 24.871 | 25.308 | 25.316 | 25.369 | 25.381 |
| EXISTING SURFACE | 18.524 | 18.513 | 18.667 | 18.684 | 18.738 | 19.049 | 19.361 | 19.614 | 19.690 | 19.697 | 19.722 | 19.773 | 20.001 | 20.286 | 20.292 | 20.322 | 20.329 |
| OFFSET | -9.000 | -8.500 | -3.390 | -3.240 | -2.750 | 0.000 | 2.750 | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 290.000

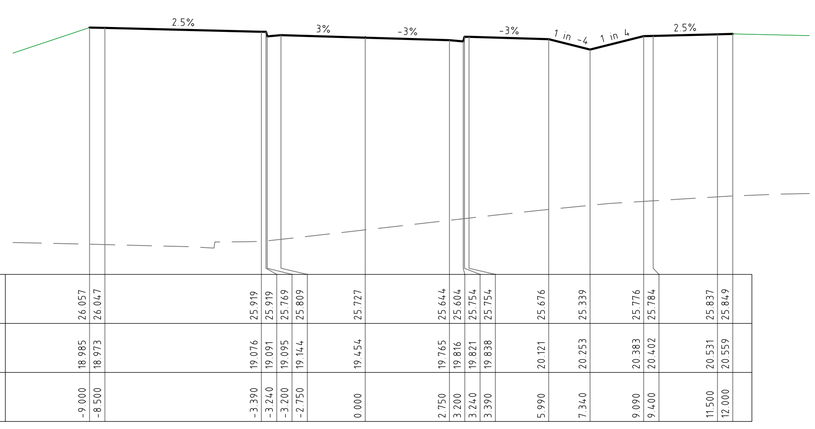



Centreline Data
X = 321220.730
Y = 6257124.316
Z = 27.131

DATUM RL 19.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.461 | 27.451 | 27.323 | 27.323 | 27.213 | 27.131 | 27.048 | 26.979 | 26.939 | 27.089 | 27.089 | 27.080 | 26.743 | 27.180 | 27.188 | 27.240 | 27.253 |
| EXISTING SURFACE | 20.275 | 20.270 | 20.460 | 20.466 | 20.467 | 20.482 | 20.577 | 20.672 | 20.723 | 20.721 | 20.721 | 20.720 | 20.716 | 20.710 | 20.709 | 20.703 | 20.701 |
| OFFSET | -9.000 | -8.500 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 250.000

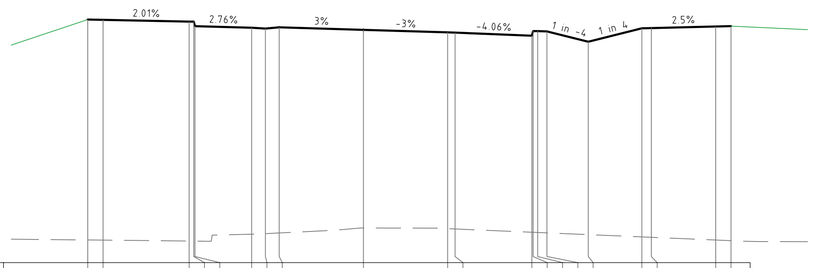



Centreline Data
X = 321249.450
Y = 6257132.987
Z = 25.727

DATUM RL 18.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.057 | 26.047 | 25.919 | 25.919 | 25.809 | 25.727 | 25.644 | 25.604 | 25.754 | 25.754 | 25.676 | 25.339 | 25.776 | 25.784 | 25.837 | 25.849 |
| EXISTING SURFACE | 18.985 | 18.973 | 19.076 | 19.091 | 19.144 | 19.454 | 19.765 | 19.816 | 19.821 | 19.838 | 20.121 | 20.253 | 20.383 | 20.402 | 20.531 | 20.559 |
| OFFSET | -9.000 | -8.500 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 3.200 | 3.240 | 3.390 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 280.000

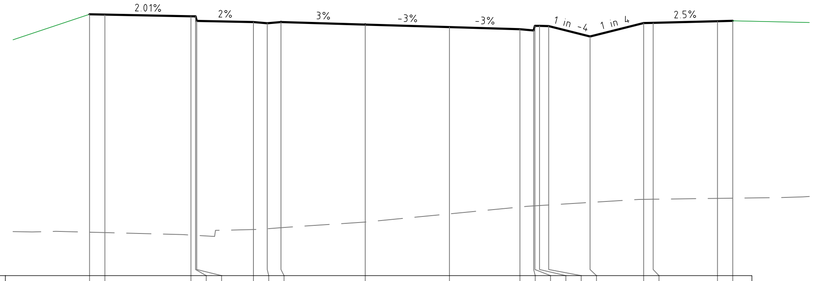



Centreline Data
X = 321211.157
Y = 6257121.425
Z = 27.598

DATUM RL 20.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 27.935 | 27.925 | 27.868 | 27.868 | 27.718 | 27.667 | 27.641 | 27.681 | 27.598 | 27.516 | 27.509 | 27.407 | 27.557 | 27.557 | 27.548 | 27.210 | 27.648 | 27.656 | 27.708 | 27.721 |
| EXISTING SURFACE | 20.740 | 20.735 | 20.705 | 20.703 | 20.703 | 20.928 | 20.946 | 20.968 | 21.130 | 21.109 | 21.099 | 20.993 | 20.991 | 20.985 | 20.972 | 20.915 | 20.840 | 20.827 | 20.738 | 20.717 |
| OFFSET | -9.000 | -8.500 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 2.992 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 240.000




Centreline Data
X = 321239.876
Y = 6257138.096
Z = 26.195

DATUM RL 18.0

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 26.531 | 26.521 | 26.464 | 26.464 | 26.314 | 26.277 | 26.237 | 26.277 | 26.195 | 26.112 | 26.043 | 26.003 | 26.153 | 26.153 | 26.144 | 25.807 | 26.244 | 26.252 | 26.305 | 26.317 |
| EXISTING SURFACE | 19.418 | 19.405 | 19.324 | 19.315 | 19.313 | 19.506 | 19.531 | 19.565 | 19.749 | 20.016 | 20.240 | 20.276 | 20.279 | 20.288 | 20.306 | 20.389 | 20.490 | 20.494 | 20.522 | 20.528 |
| OFFSET | -9.000 | -8.500 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 270.000

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

MC40

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT
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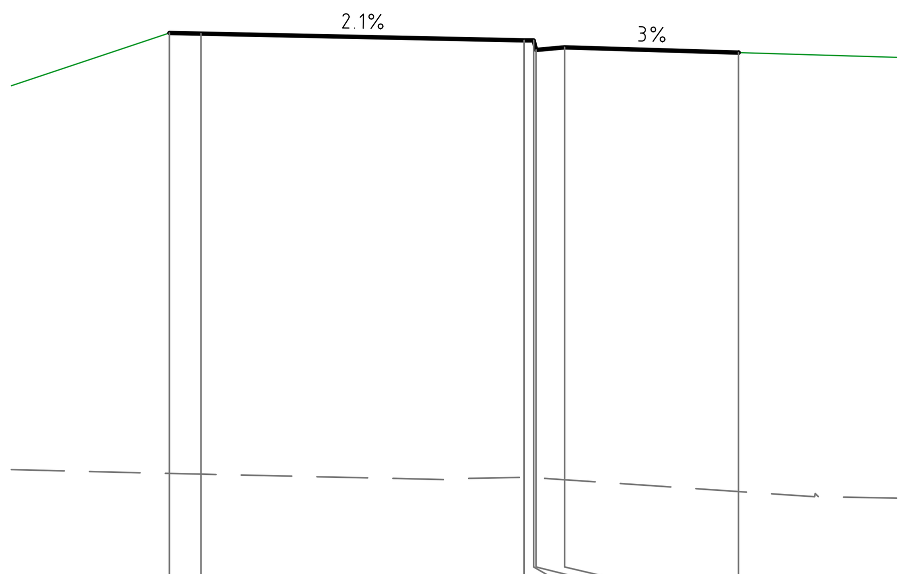
SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 36

JOB NUMBER 150077-60
DRAWING NUMBER C04.116
REVISION 03
DRAWING SHEET SIZE = A1

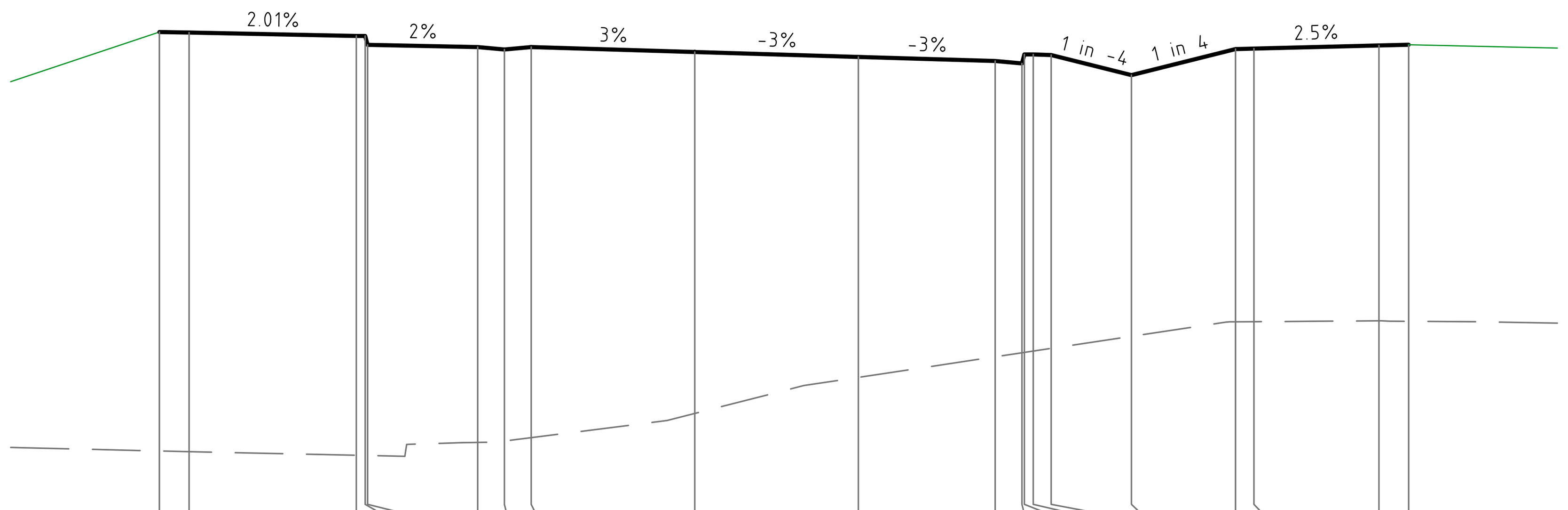



Centreline Data
X = 321278.169
Y = 6257141.658
Z = 24.323

DATUM RL 16.0

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.633 | 24.623 | 24.516 | 24.516 | 24.366 | 24.406 | 24.323 |
| EXISTING SURFACE | 17.677 | 17.666 | 17.615 | 17.611 | 17.608 | 17.577 | 17.391 |
| OFFSET | -9.000 | -8.500 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 |

## CHAINAGE 310.000

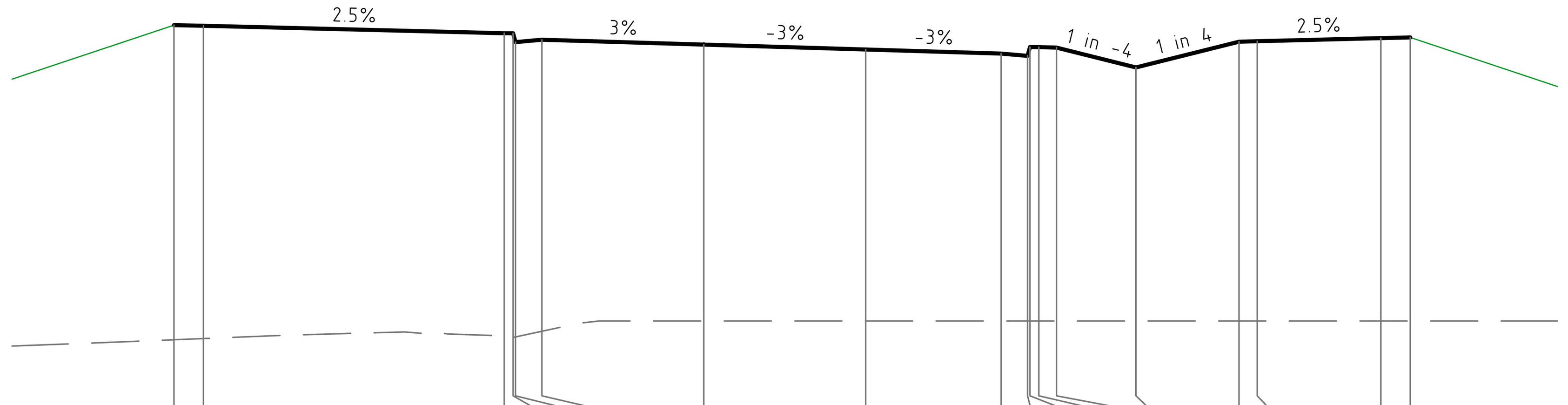



Centreline Data
X = 321268.596
Y = 6257138.767
Z = 24.791

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.127 | 25.117 | 25.061 | 25.061 | 24.911 | 24.874 | 24.834 | 24.874 | 24.791 | 24.709 | 24.640 | 24.600 | 24.750 | 24.750 | 24.741 | 24.403 | 24.841 | 24.848 | 24.901 | 24.913 |
| EXISTING SURFACE | 18.096 | 18.084 | 18.024 | 18.020 | 18.020 | 18.239 | 18.262 | 18.319 | 18.725 | 19.331 | 19.676 | 19.743 | 19.749 | 19.772 | 19.817 | 20.019 | 20.263 | 20.265 | 20.280 | 20.271 |
| OFFSET | -9.000 | -8.500 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

## CHAINAGE 300.000

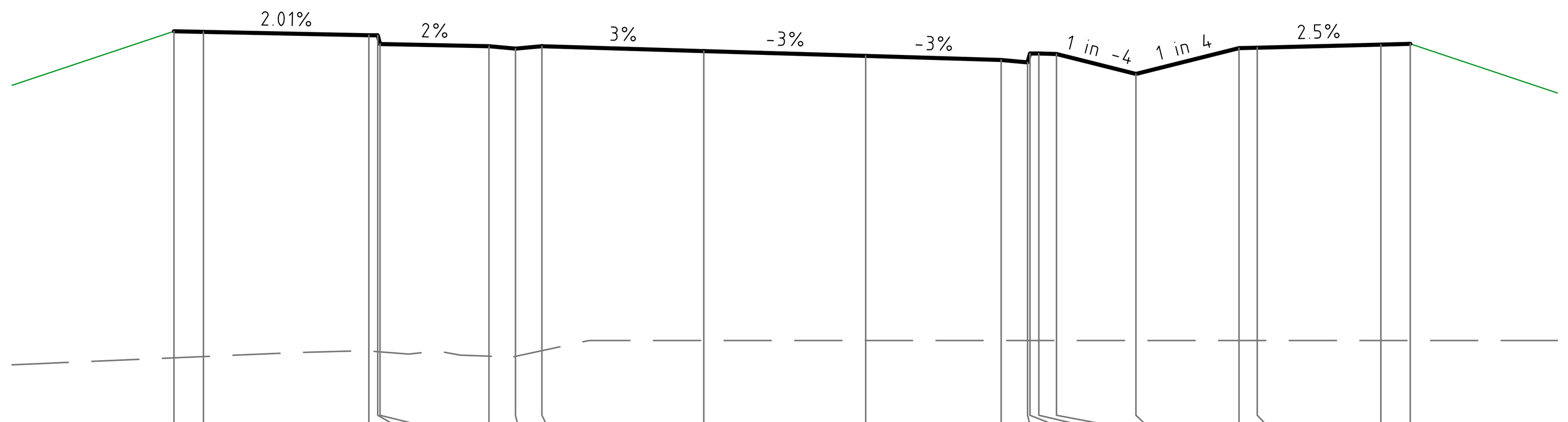



Centreline Data
X = 321354.755
Y = 6257164.780
Z = 22.162

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.492 | 22.482 | 22.354 | 22.354 | 22.204 | 22.244 | 22.162 | 22.079 | 22.010 | 21.970 | 22.120 | 22.120 | 22.111 | 21.774 | 22.211 | 22.219 | 22.272 | 22.284 |
| EXISTING SURFACE | 17.151 | 17.172 | 17.164 | 17.190 | 17.199 | 17.296 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 |
| OFFSET | -9.000 | -8.500 | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | 2.750 | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

## CHAINAGE 390.000

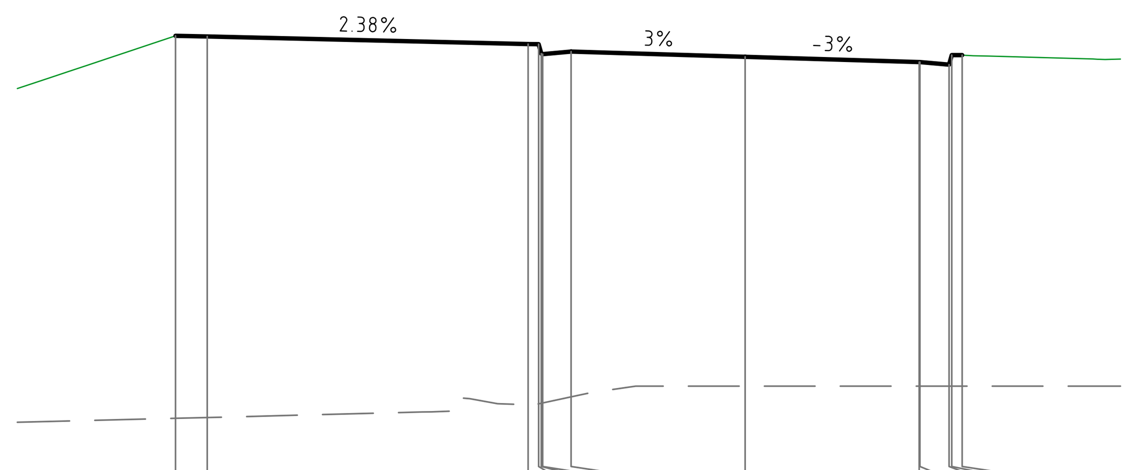



Centreline Data
X = 321345.182
Y = 6257161.890
Z = 22.387

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.723 | 22.713 | 22.656 | 22.656 | 22.506 | 22.469 | 22.429 | 22.469 | 22.387 | 22.304 | 22.235 | 22.195 | 22.345 | 22.345 | 22.336 | 21.999 | 22.436 | 22.444 | 22.496 | 22.509 |
| EXISTING SURFACE | 17.176 | 17.198 | 17.293 | 17.281 | 17.278 | 17.204 | 17.201 | 17.298 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 |
| OFFSET | -9.000 | -8.500 | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | 2.750 | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

## CHAINAGE 380.000




Centreline Data
X = 321335.608
Y = 6257159.000
Z = 22.675

DATUM RL 16.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.007 | 22.997 | 22.876 | 22.876 | 22.726 | 22.717 | 22.757 | 22.675 | 22.592 | 22.592 | 22.552 | 22.702 | 22.702 |
| EXISTING SURFACE | 16.961 | 16.974 | 17.154 | 17.190 | 17.199 | 17.203 | 17.301 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 |
| OFFSET | -9.000 | -8.500 | -3.429 | -3.263 | -3.221 | -3.200 | -2.750 | 0.000 | 2.750 | 2.760 | 3.221 | 3.263 | 3.429 |

## CHAINAGE 370.000

# MC40

# NOT FOR CONSTRUCTION

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

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SCALE 1:100 @ A1 (0 1 2 3 4 5m)
SCALE 1:100 @ A1 (0 1 2 3 4 5m)

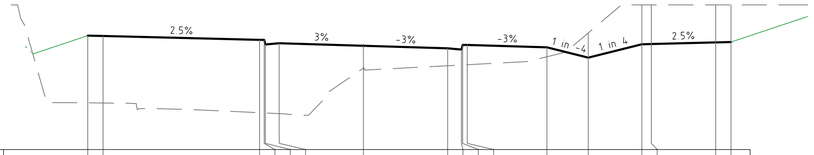
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 37

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.117
REVISION: 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

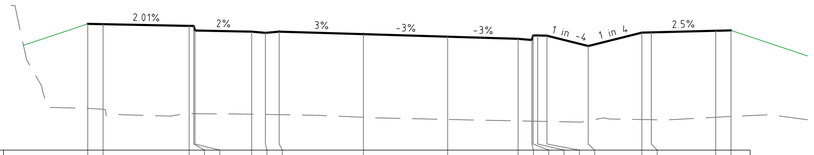



Centreline Data
X = 321440.914
Y = 6257190.793
Z = 19.386

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.716 | 19.706 | | | | | 19.578 | 19.578 | 19.428 | 19.468 | 19.386 | | | | 19.303 | 19.263 | 19.413 | 19.413 | 19.335 | 18.998 | 19.435 | 19.443 | 19.495 | 19.508 |
| EXISTING SURFACE | 17.523 | 17.518 | | | | | 17.201 | 17.194 | 17.193 | 17.172 | 18.659 | | | | 18.734 | 18.758 | 18.760 | 18.768 | 19.027 | 19.805 | 20.720 | 20.720 | 20.720 | 20.720 |
| OFFSET | -9.000 | -8.500 | | | | | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | | | | 2.750 | 3.200 | 3.240 | 3.390 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 480.000

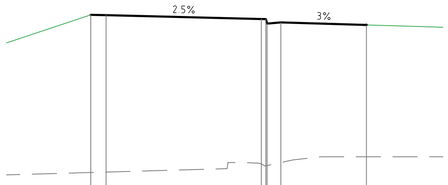



Centreline Data
X = 321431.340
Y = 6257187.903
Z = 19.786

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.122 | 20.112 | | | | | 20.055 | 20.055 | 19.905 | 19.868 | 19.828 | 19.868 | 19.786 | | | 19.703 | | | 19.634 | 19.594 | 19.744 | 19.744 | 19.735 | 19.398 | 19.835 | 19.843 | 19.895 | 19.908 |
| EXISTING SURFACE | 17.363 | 17.334 | | | | | 17.190 | 17.189 | 17.189 | 17.172 | 17.165 | 17.158 | 17.073 | | | 17.002 | | | 16.954 | 16.945 | 16.945 | 16.942 | 16.936 | 16.958 | 16.998 | 16.993 | 17.072 | 17.099 |
| OFFSET | -9.000 | -8.500 | | | | | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | | | 2.750 | | | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 470.000



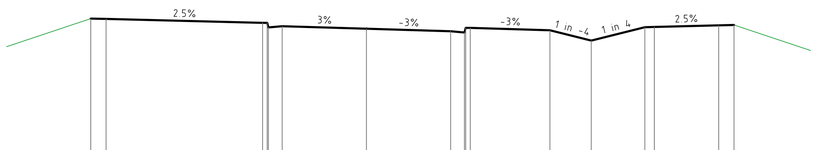

Centreline Data
X = 321373.901
Y = 6257170.561
Z = 21.773

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.103 | 22.093 | | | | | | | | | | | | | | | | | | | | | |
| EXISTING SURFACE | 16.956 | 16.971 | | | | | | | | | | | | | | | | | | | | | |
| OFFSET | -9.000 | -8.500 | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | 21.966 | 21.966 | 21.816 | 21.856 | 21.773 | | | | | | | | | | | | |
| EXISTING SURFACE | | | | | | | 17.241 | 17.176 | 17.185 | 17.282 | 17.470 | | | | | | | | | | | | |
| OFFSET | | | | | | | -3.433 | -3.283 | -3.243 | -2.793 | 0.000 | | | | | | | | | | | | |

CHAINAGE 410.000




Centreline Data
X = 321364.328
Y = 6257167.670
Z = 21.970

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 22.301 | 22.291 | | | | | 22.163 | 22.163 | 22.013 | 22.053 | 21.970 | | | | 21.888 | 21.848 | 21.998 | 21.998 | 21.920 | 21.582 | 22.020 | 22.028 | 22.080 | 22.093 |
| EXISTING SURFACE | 16.964 | 16.976 | | | | | 17.189 | 17.188 | 17.196 | 17.294 | 17.470 | | | | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 |
| OFFSET | -9.000 | -8.500 | | | | | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | | | | 2.750 | 3.200 | 3.240 | 3.390 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 |

CHAINAGE 400.000

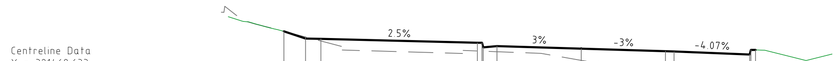
Centreline Data
X = 321479.206
Y = 6257202.354
Z = 17.785

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| EXISTING SURFACE | | | | | | | | | | | | | | | | | | | | | | | |
| OFFSET | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.116 | 18.106 | | | | | 17.978 | 17.978 | 17.828 | 17.868 | 17.785 | | | | | | | | | | | | |
| EXISTING SURFACE | 19.174 | 19.135 | | | | | 18.895 | 18.865 | 18.858 | 18.769 | 18.330 | | | | | | | | | | | | |
| OFFSET | -9.000 | -8.500 | | | | | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | | | | | | | | | | | | |

CHAINAGE 520.000

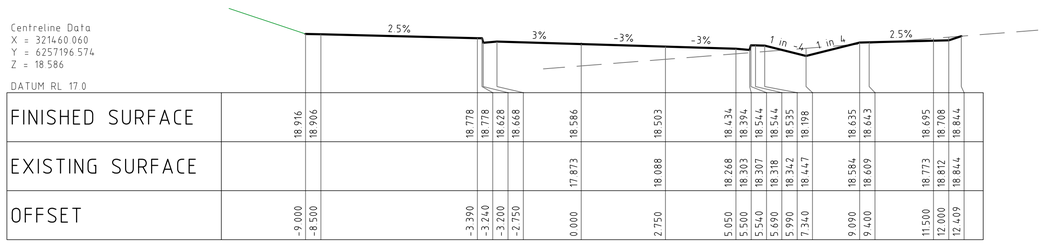



Centreline Data
X = 321469.633
Y = 6257199.464
Z = 18.185

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.751 | 18.516 | | | | | 18.378 | 18.378 | 18.228 | 18.268 | 18.185 | | | | | 18.103 | 18.095 | | | 17.994 | 18.144 | 18.144 | |
| EXISTING SURFACE | 18.751 | 18.566 | 18.435 | | | | 18.110 | 18.105 | 18.103 | 18.086 | 17.803 | | | | | 17.583 | 17.575 | | | 17.499 | 17.498 | 17.493 | |
| OFFSET | -9.706 | -9.000 | -8.500 | | | | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | | | | | 2.750 | 3.030 | | | 5.500 | 5.540 | 5.690 | |

CHAINAGE 510.000

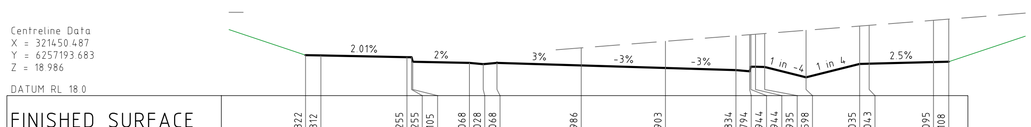



Centreline Data
X = 321460.060
Y = 6257196.574
Z = 18.586

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.916 | 18.906 | | | | | 18.778 | 18.778 | 18.628 | 18.668 | 18.586 | | | | | 18.503 | | | 18.434 | 18.394 | 18.544 | 18.535 | 18.198 | 18.635 | 18.643 | 18.695 | 18.708 | 18.844 |
| EXISTING SURFACE | | | | | | | | | | | 17.873 | | | | | 18.088 | | | 18.268 | 18.303 | 18.307 | 18.318 | 18.342 | 18.447 | 18.584 | 18.609 | 18.773 | 18.812 | 18.844 |
| OFFSET | -9.000 | -8.500 | | | | | -3.390 | -3.240 | -3.200 | -2.750 | 0.000 | | | | | 2.750 | | | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 | 12.409 |

CHAINAGE 500.000




Centreline Data
X = 321450.487
Y = 6257193.683
Z = 18.986

DATUM RL 18.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.322 | 19.312 | | | | | 19.255 | 19.255 | 19.105 | 19.068 | 19.028 | 19.068 | 18.986 | | | 18.903 | | | 18.834 | 18.794 | 18.944 | 18.935 | 18.598 | 19.035 | 19.043 | 19.095 | 19.108 | |
| EXISTING SURFACE | | | | | | | | | | | | | 19.559 | | | 19.774 | | | 19.954 | 19.989 | 19.992 | 20.004 | 20.028 | 20.133 | 20.270 | 20.294 | 20.459 | 20.498 | |
| OFFSET | -9.000 | -8.500 | | | | | -5.690 | -5.540 | -5.500 | -3.650 | -3.200 | -2.750 | 0.000 | | | 2.750 | | | 5.050 | 5.500 | 5.540 | 5.690 | 5.990 | 7.340 | 9.090 | 9.400 | 11.500 | 12.000 | |

CHAINAGE 490.000

MC40

**NOT FOR CONSTRUCTION**

DESIGNED: A.RIVETT
DRAWN: B.MAZZA
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
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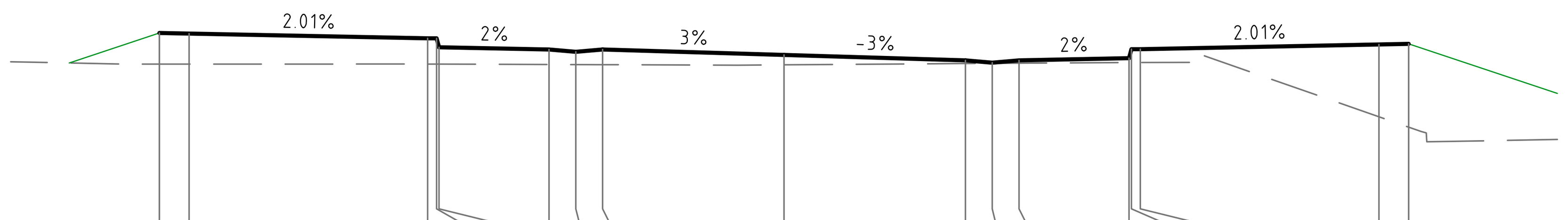
SCALE 1:100 @ A1 0 1 2 3 4 5m
SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 38

JOB NUMBER 150077-60
DRAWING NUMBER C04.118
REVISION 03
DRAWING SHEET SIZE = A1

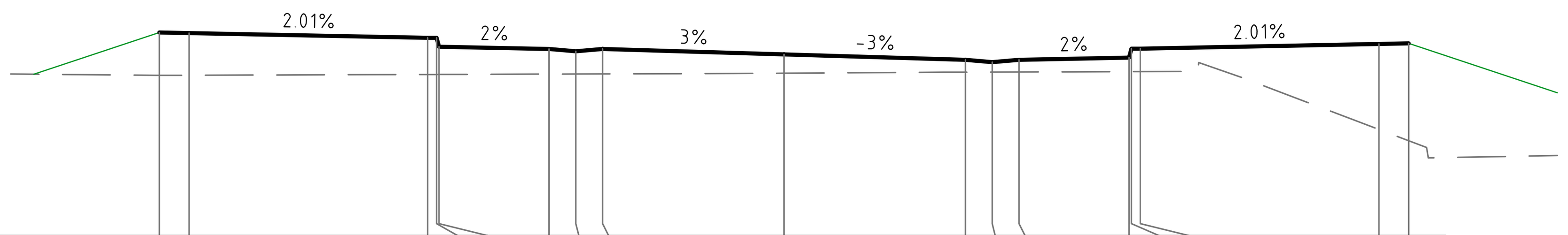



Centreline Data
X = 321146.241
Y = 6256941.900
Z = 24.788

DATUM RL 22.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.157 | 25.147 | 25.066 | 25.066 | 24.916 | 24.879 | 24.839 | 24.879 | 24.788 | 24.696 | 24.656 | 24.696 | 24.733 | 24.883 | 24.883 | 24.964 | 24.974 |
| EXISTING SURFACE | 24.633 | 24.633 | 24.634 | 24.633 | 24.633 | 24.626 | 24.625 | 24.623 | 24.621 | 24.643 | 24.646 | 24.649 | 24.659 | 24.659 | 24.659 | 23.748 | 23.573 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 40.000

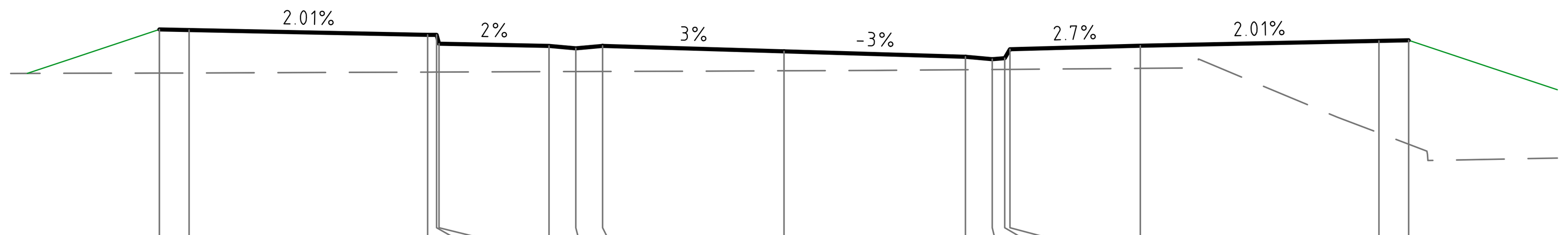



Centreline Data
X = 321136.668
Y = 6256939.010
Z = 25.052

DATUM RL 22.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.421 | 25.411 | 25.330 | 25.330 | 25.180 | 25.143 | 25.103 | 25.143 | 25.052 | 24.960 | 24.920 | 24.960 | 24.997 | 25.147 | 25.147 | 25.228 | 25.238 |
| EXISTING SURFACE | 24.699 | 24.700 | 24.713 | 24.714 | 24.714 | 24.720 | 24.721 | 24.722 | 24.735 | 24.752 | 24.754 | 24.755 | 24.761 | 24.761 | 24.762 | 23.787 | 23.597 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 30.000

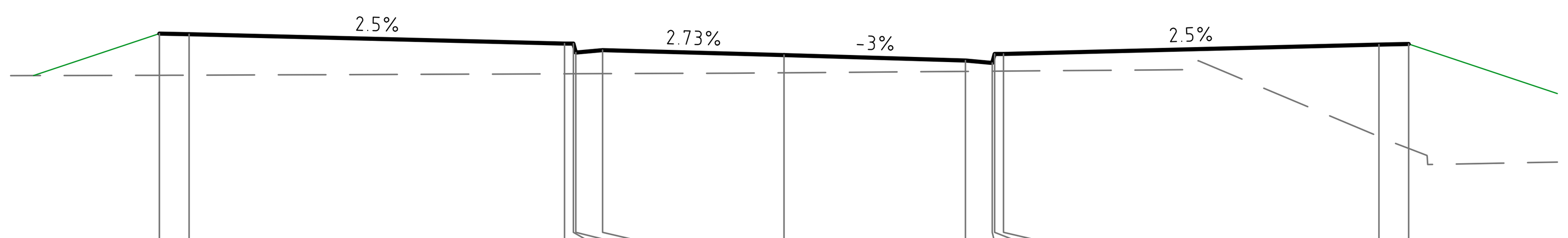



Centreline Data
X = 321127.094
Y = 6256936.120
Z = 25.171

DATUM RL 22.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.540 | 25.530 | 25.449 | 25.449 | 25.299 | 25.262 | 25.222 | 25.262 | 25.171 | 25.079 | 25.039 | 25.056 | 25.207 | 25.266 | 25.347 | 25.357 |
| EXISTING SURFACE | 24.805 | 24.807 | 24.822 | 24.822 | 24.822 | 24.829 | 24.831 | 24.832 | 24.845 | 24.861 | 24.865 | 24.867 | 24.867 | 24.884 | 23.797 | 23.607 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.710 | 3.797 | 5.990 | 10.000 | 10.500 |

CHAINAGE 20.000

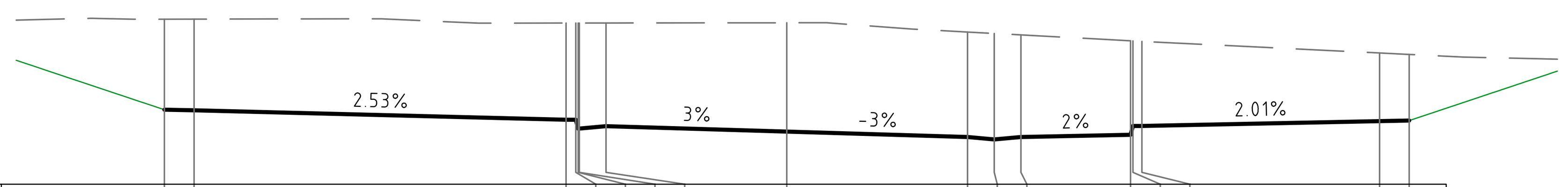



Centreline Data
X = 321124.046
Y = 6256935.199
Z = 25.178

DATUM RL 22.0

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 25.539 | 25.529 | 25.371 | 25.371 | 25.221 | 25.261 | 25.178 | 25.087 | 25.047 | 25.197 | 25.197 | 25.355 | 25.365 |
| EXISTING SURFACE | 24.839 | 24.840 | 24.864 | 24.864 | 24.865 | 24.866 | 24.880 | 24.904 | 24.908 | 24.908 | 24.909 | 23.810 | 23.610 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 16.816

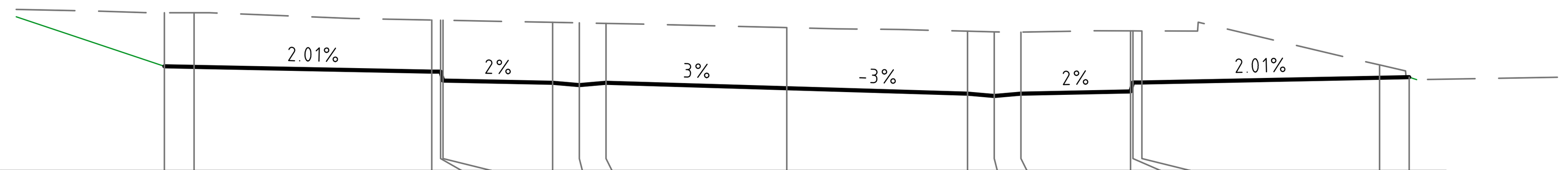



Centreline Data
X = 321184.534
Y = 6256953.462
Z = 22.887

DATUM RL 22.0

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.256 | 23.246 | 23.087 | 23.088 | 22.937 | 22.939 | 22.979 | 22.887 | 22.796 | 22.756 | 22.796 | 22.833 | 22.983 | 22.983 | 23.063 | 23.073 |
| EXISTING SURFACE | 24.783 | 24.784 | 24.718 | 24.718 | 24.718 | 24.718 | 24.718 | 24.722 | 24.566 | 24.542 | 24.518 | 24.419 | 24.416 | 24.408 | 24.213 | 24.188 |
| OFFSET | -10.500 | -10.000 | -3.723 | -3.560 | -3.518 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 80.000

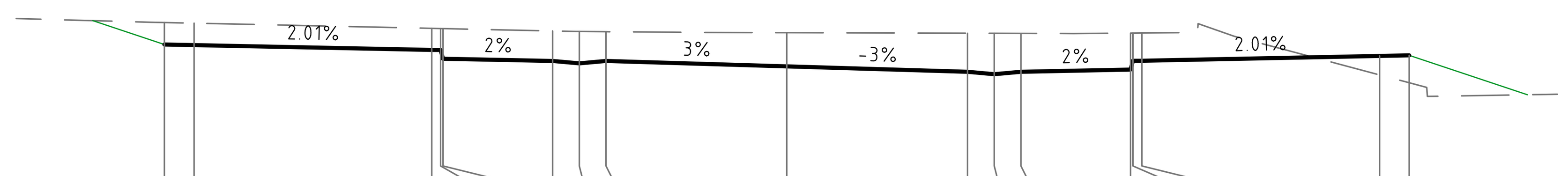



Centreline Data
X = 321174.960
Y = 6256950.571
Z = 23.384

DATUM RL 22.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 23.754 | 23.744 | 23.663 | 23.663 | 23.513 | 23.476 | 23.436 | 23.476 | 23.384 | 23.293 | 23.253 | 23.293 | 23.330 | 23.480 | 23.480 | 23.561 | 23.571 |
| EXISTING SURFACE | 24.653 | 24.654 | 24.532 | 24.529 | 24.528 | 24.493 | 24.484 | 24.475 | 24.404 | 24.343 | 24.332 | 24.328 | 24.349 | 24.349 | 24.348 | 23.776 | 23.527 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 70.000

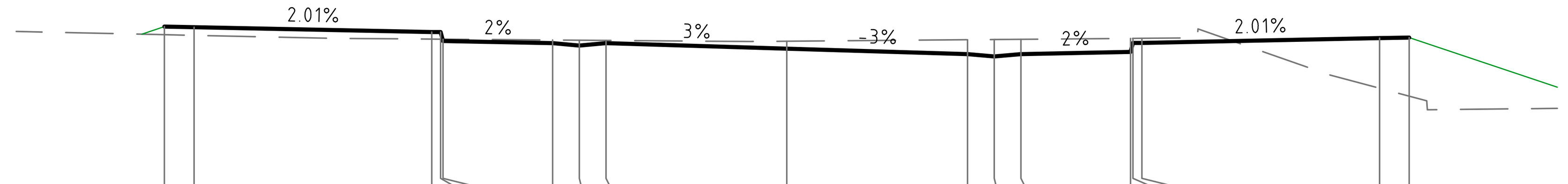



Centreline Data
X = 321165.387
Y = 6256947.681
Z = 23.882

DATUM RL 22.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.251 | 24.241 | 24.160 | 24.160 | 24.010 | 23.973 | 23.933 | 23.973 | 23.882 | 23.790 | 23.750 | 23.790 | 23.827 | 23.977 | 23.977 | 24.058 | 24.068 |
| EXISTING SURFACE | 24.622 | 24.611 | 24.524 | 24.521 | 24.520 | 24.480 | 24.471 | 24.467 | 24.451 | 24.441 | 24.440 | 24.439 | 24.444 | 24.444 | 24.445 | 23.738 | 23.605 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 60.000




Centreline Data
X = 321155.814
Y = 6256944.791
Z = 24.378

DATUM RL 22.0

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 24.748 | 24.738 | 24.657 | 24.657 | 24.507 | 24.470 | 24.430 | 24.470 | 24.378 | 24.287 | 24.247 | 24.287 | 24.324 | 24.474 | 24.474 | 24.555 | 24.565 |
| EXISTING SURFACE | 24.612 | 24.602 | 24.539 | 24.538 | 24.537 | 24.523 | 24.520 | 24.516 | 24.503 | 24.528 | 24.531 | 24.535 | 24.550 | 24.550 | 24.551 | 23.714 | 23.581 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 50.000

MC50

NOT FOR CONSTRUCTION

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE

DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

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SCALE 1:100 @ A1
SCALE 1:100 @ A1
0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

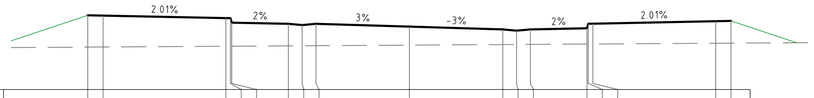
DRAWING TITLE: CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 39

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.119
REVISION: 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

Centreline Data
X = 321406.009
Y = 6257020.329
Z = 17.055

DATUM RL 15.0

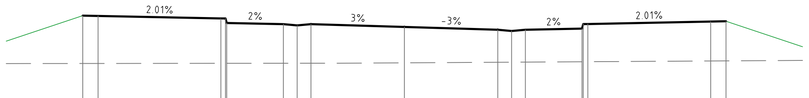



| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.424 | 17.414 | | | | 17.333 | 17.333 | 17.183 | 17.146 | 17.106 | 17.146 | | | 17.055 | | | 16.963 | 16.923 | 16.963 | 17.000 | 17.150 | 17.150 | | | 17.231 | 17.241 |
| EXISTING SURFACE | 16.386 | 16.389 | | | | 16.414 | 16.415 | 16.415 | 16.426 | 16.429 | 16.432 | | | 16.450 | | | 16.469 | 16.472 | 16.475 | 16.486 | 16.486 | 16.487 | | | 16.512 | 16.515 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 60.000

Centreline Data
X = 321396.436
Y = 6257017.439
Z = 17.600

DATUM RL 15.0

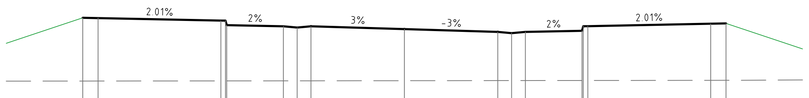



| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.970 | 17.960 | | | | 17.879 | 17.879 | 17.729 | 17.692 | 17.652 | 17.692 | | | 17.600 | | | 17.509 | 17.469 | 17.509 | 17.546 | 17.696 | 17.696 | | | 17.777 | 17.787 |
| EXISTING SURFACE | 16.408 | 16.409 | | | | 16.414 | 16.414 | 16.414 | 16.416 | 16.416 | 16.417 | | | 16.429 | | | 16.448 | 16.451 | 16.454 | 16.465 | 16.465 | 16.466 | | | 16.491 | 16.494 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 50.000

Centreline Data
X = 321386.863
Y = 6257014.549
Z = 18.146

DATUM RL 15.0

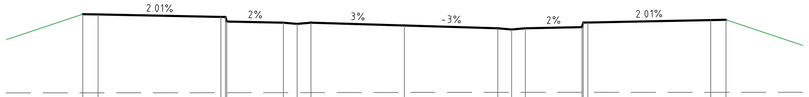



| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 18.516 | 18.506 | | | | 18.425 | 18.425 | 18.275 | 18.238 | 18.198 | 18.238 | | | 18.146 | | | 18.055 | 18.015 | 18.055 | 18.092 | 18.242 | 18.242 | | | 18.323 | 18.333 |
| EXISTING SURFACE | 16.451 | 16.451 | | | | 16.456 | 16.456 | 16.456 | 16.458 | 16.459 | 16.459 | | | 16.463 | | | 16.466 | 16.467 | 16.467 | 16.470 | 16.470 | 16.470 | | | 16.474 | 16.475 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 40.000

Centreline Data
X = 321377.290
Y = 6257011.658
Z = 18.692

DATUM RL 15.0

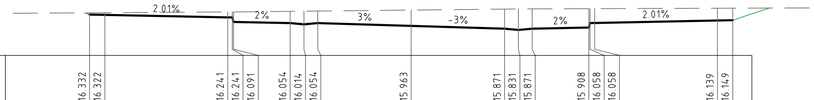



| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.061 | 19.051 | | | | 18.971 | 18.971 | 18.821 | 18.784 | 18.744 | 18.784 | | | 18.692 | | | 18.601 | 18.561 | 18.601 | 18.638 | 18.788 | 18.788 | | | 18.868 | 18.878 |
| EXISTING SURFACE | 16.493 | 16.494 | | | | 16.498 | 16.499 | 16.499 | 16.501 | 16.501 | 16.502 | | | 16.505 | | | 16.509 | 16.509 | 16.510 | 16.510 | 16.510 | 16.510 | | | 16.509 | 16.510 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 30.000

Centreline Data
X = 321425.156
Y = 6257026.110
Z = 15.963

DATUM RL 15.0

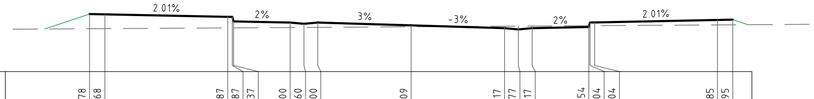



| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.332 | 16.322 | | | | 16.241 | 16.241 | 16.091 | 16.054 | 16.014 | 16.054 | | | 15.963 | | | 15.871 | 15.831 | 15.871 | 15.908 | 16.058 | 16.058 | | | 16.139 | 16.149 |
| EXISTING SURFACE | 16.390 | 16.394 | | | | 16.418 | 16.419 | 16.419 | 16.438 | 16.443 | 16.447 | | | 16.479 | | | 16.511 | 16.516 | 16.519 | 16.525 | 16.525 | 16.526 | | | 16.539 | 16.541 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 80.000

Centreline Data
X = 321414.583
Y = 6257023.219
Z = 16.509

DATUM RL 15.0




| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.878 | 16.868 | | | | 16.787 | 16.787 | 16.637 | 16.600 | 16.560 | 16.600 | | | 16.509 | | | 16.417 | 16.377 | 16.417 | 16.454 | 16.604 | 16.604 | | | 16.685 | 16.695 |
| EXISTING SURFACE | 16.398 | 16.401 | | | | 16.426 | 16.427 | 16.427 | 16.438 | 16.441 | 16.444 | | | 16.462 | | | 16.481 | 16.484 | 16.486 | 16.498 | 16.498 | 16.499 | | | 16.523 | 16.526 |
| OFFSET | -10.500 | -10.000 | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 70.000

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

MC51

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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SCALE 1:100 @ A1 0 1 2 3 4 5m

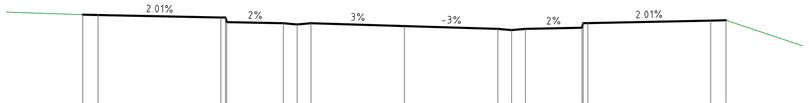
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

CROSS SECTIONS SHEET 40

JOB NUMBER 150077-60
DRAWING NUMBER C04.120
REVISION 03
DRAWING SHEET SIZE = A1

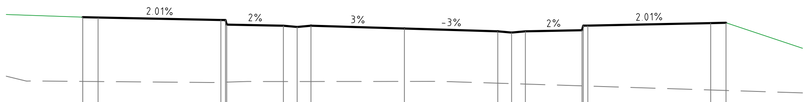



Centreline Data
X = 321282.609
Y = 6256903.684
Z = 20.507

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.879 | 20.866 | | | | | 20.786 | 20.786 | 20.636 | 20.599 | 20.599 | 20.559 | 20.507 | | | 20.416 | 20.376 | 20.416 | 20.453 | 20.603 | 20.603 | 20.683 | 20.696 |
| EXISTING SURFACE | 17.678 | 17.682 | | | | | 17.711 | 17.715 | 17.716 | 17.770 | 17.783 | 17.796 | 17.884 | | | 17.965 | 17.964 | 17.962 | 17.957 | 17.957 | 17.957 | 17.950 | 17.951 |
| OFFSET | -10.500 | -10.000 | | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 60.000

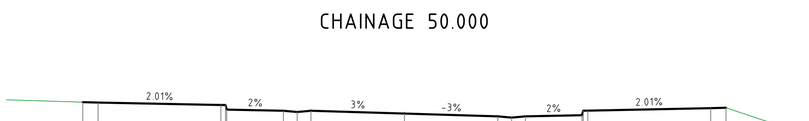



Centreline Data
X = 321273.036
Y = 6256900.794
Z = 20.408

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.780 | 20.768 | | | | | 20.687 | 20.687 | 20.537 | 20.500 | 20.460 | 20.500 | 20.408 | | | 20.317 | 20.277 | 20.317 | 20.354 | 20.504 | 20.504 | 20.585 | 20.597 |
| EXISTING SURFACE | 18.682 | 18.678 | | | | | 18.655 | 18.659 | 18.661 | 18.678 | 18.679 | 18.679 | 18.682 | | | 18.625 | 18.610 | 18.596 | 18.537 | 18.536 | 18.531 | 18.403 | 18.387 |
| OFFSET | -10.500 | -10.000 | | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 50.000

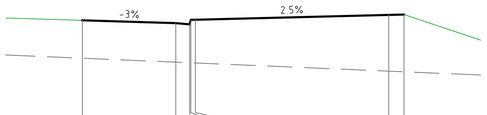



Centreline Data
X = 321263.463
Y = 6256897.903
Z = 20.308

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.680 | 20.668 | | | | | 20.587 | 20.587 | 20.437 | 20.400 | 20.360 | 20.400 | 20.308 | | | 20.217 | 20.177 | 20.217 | 20.254 | 20.404 | 20.404 | 20.485 | 20.497 |
| EXISTING SURFACE | 19.175 | 19.189 | | | | | 19.176 | 19.170 | 19.168 | 19.090 | 19.071 | 19.052 | 18.924 | | | 18.800 | 18.782 | 18.764 | 18.691 | 18.689 | 18.683 | 18.523 | 18.503 |
| OFFSET | -10.500 | -10.000 | | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 40.000

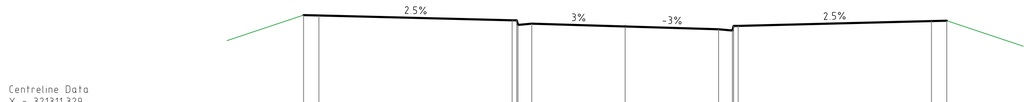



Centreline Data
X = 321253.890
Y = 6256895.013
Z = 20.208

DATUM RL 17.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | | | | | | | | | | | | | 20.208 | | | 20.117 | 20.077 | 20.227 | 20.227 | | | 20.385 | 20.397 |
| EXISTING SURFACE | | | | | | | | | | | | | 18.972 | | | 18.844 | 18.825 | 18.823 | 18.817 | | | 18.550 | 18.529 |
| OFFSET | | | | | | | | | | | | | 0.000 | | | 3.050 | 3.500 | 3.540 | 3.690 | | | 10.000 | 10.500 |

CHAINAGE 30.000

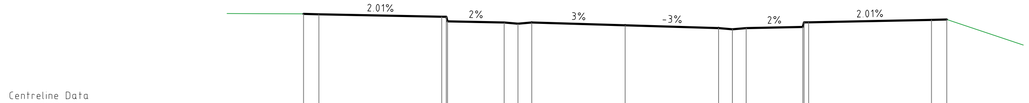



Centreline Data
X = 321311.329
Y = 6256912.355
Z = 20.170

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.542 | 20.530 | | | | | | | | 20.372 | 20.372 | 20.222 | 20.262 | | | 20.170 | | | 20.079 | 20.039 | 20.189 | 20.189 | | | 20.347 | 20.359 |
| EXISTING SURFACE | 16.737 | 16.735 | | | | | | | | 16.711 | 16.710 | 16.710 | 16.708 | | | 16.696 | | | 16.684 | 16.684 | 16.684 | 16.681 | | | 16.676 | 16.676 |
| OFFSET | -10.500 | -10.000 | | | | | | | | -3.690 | -3.540 | -3.500 | -3.050 | | | 0.000 | | | 3.050 | 3.500 | 3.540 | 3.690 | | | 10.000 | 10.500 |

CHAINAGE 90.000

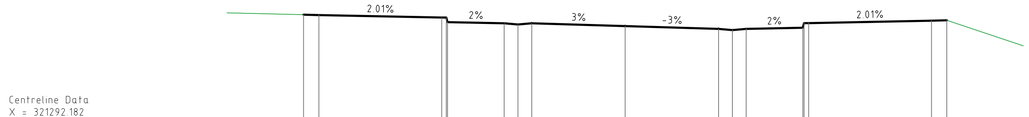



Centreline Data
X = 321301.756
Y = 6256909.465
Z = 20.413

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.784 | 20.772 | | | | | 20.691 | 20.691 | 20.541 | 20.504 | 20.464 | 20.504 | | | | 20.413 | | | 20.321 | 20.281 | 20.321 | 20.358 | 20.508 | 20.508 | | | 20.589 | 20.601 |
| EXISTING SURFACE | 16.577 | 16.568 | | | | | 16.510 | 16.511 | 16.511 | 16.514 | 16.515 | 16.516 | | | | 16.520 | | | 16.518 | 16.510 | 16.501 | 16.501 | 16.501 | 16.501 | | | 16.528 | 16.522 |
| OFFSET | -10.500 | -10.000 | | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 80.000

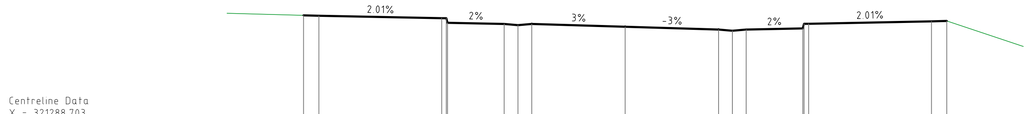



Centreline Data
X = 321292.182
Y = 6256906.574
Z = 20.525

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.897 | 20.884 | | | | | 20.803 | 20.803 | 20.653 | 20.616 | 20.576 | 20.616 | | | | 20.525 | | | 20.433 | 20.393 | 20.433 | 20.470 | 20.620 | 20.620 | | | 20.701 | 20.714 |
| EXISTING SURFACE | 16.837 | 16.829 | | | | | 16.804 | 16.813 | 16.816 | 16.931 | 16.959 | 16.987 | | | | 17.098 | | | 17.115 | 17.114 | 17.114 | 17.111 | 17.111 | 17.113 | | | 17.229 | 17.243 |
| OFFSET | -10.500 | -10.000 | | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 70.000




Centreline Data
X = 321288.703
Y = 6256905.524
Z = 20.534

DATUM RL 16.0

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.905 | 20.893 | | | | | 20.812 | 20.812 | 20.662 | 20.625 | 20.585 | 20.625 | | | | 20.534 | | | 20.442 | 20.402 | 20.442 | 20.479 | 20.629 | 20.629 | | | 20.710 | 20.722 |
| EXISTING SURFACE | 17.109 | 17.109 | | | | | 17.137 | 17.146 | 17.148 | 17.263 | 17.291 | 17.301 | | | | 17.310 | | | 17.371 | 17.384 | 17.397 | 17.450 | 17.452 | 17.456 | | | 17.505 | 17.503 |
| OFFSET | -10.500 | -10.000 | | | | | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | | | | 0.000 | | | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | | | 10.000 | 10.500 |

CHAINAGE 66.365

MC60

**NOT FOR CONSTRUCTION**

DESIGNED: A.RIVETT
DRAWN: B.MAZZA
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT: SEKISUI HOUSE
DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFICATION SIGNATURE HAS BEEN ADDED

ARCHITECT

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SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

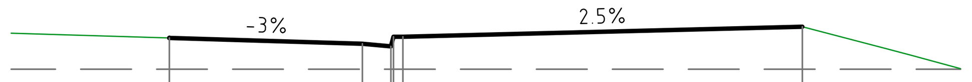
PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 41

JOB NUMBER: 150077-60
DRAWING NUMBER: C04.121
REVISION: 03
DRAWING SHEET SIZE = A1

Centreline Data
X = 321397.488
Y = 6256938.368
Z = 17.211

DATUM RL 16.0

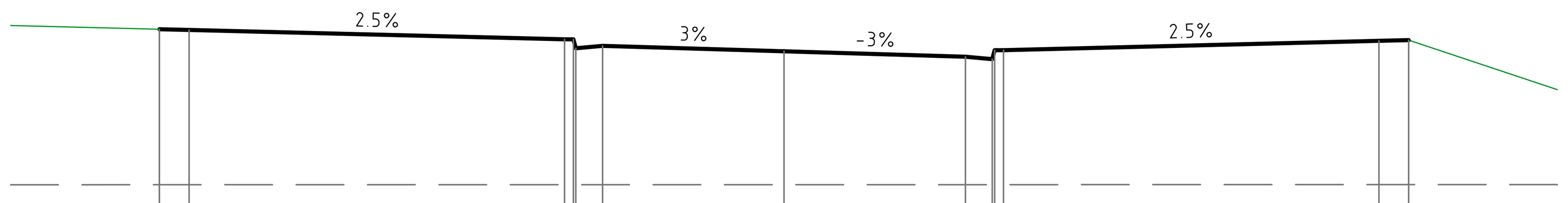



| | | | | | | |
|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.211 | 17.119 | 17.079 | 17.229 | 17.229 | 17.387 |
| EXISTING SURFACE | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 |
| OFFSET | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 |

CHAINAGE 180.000

Centreline Data
X = 321340.048
Y = 6256921.026
Z = 18.959

DATUM RL 16.0

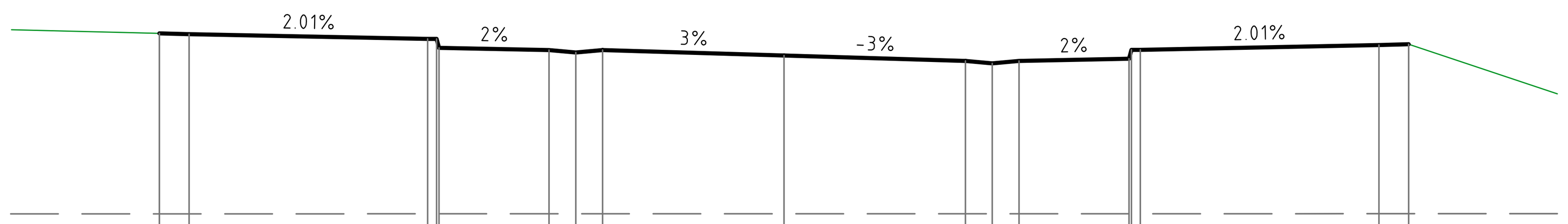



| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.331 | 19.319 | 19.161 | 19.161 | 19.011 | 19.051 | 18.959 | 18.868 | 18.828 | 18.978 | 18.978 | 19.136 | 19.148 |
| EXISTING SURFACE | 16.715 | 16.715 | 16.716 | 16.716 | 16.716 | 16.716 | 16.717 | 16.717 | 16.717 | 16.717 | 16.717 | 16.718 | 16.718 |
| OFFSET | -10.500 | -10.000 | -3.690 | -3.540 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.540 | 3.690 | 10.000 | 10.500 |

CHAINAGE 120.000

Centreline Data
X = 321330.475
Y = 6256918.136
Z = 19.379

DATUM RL 16.0

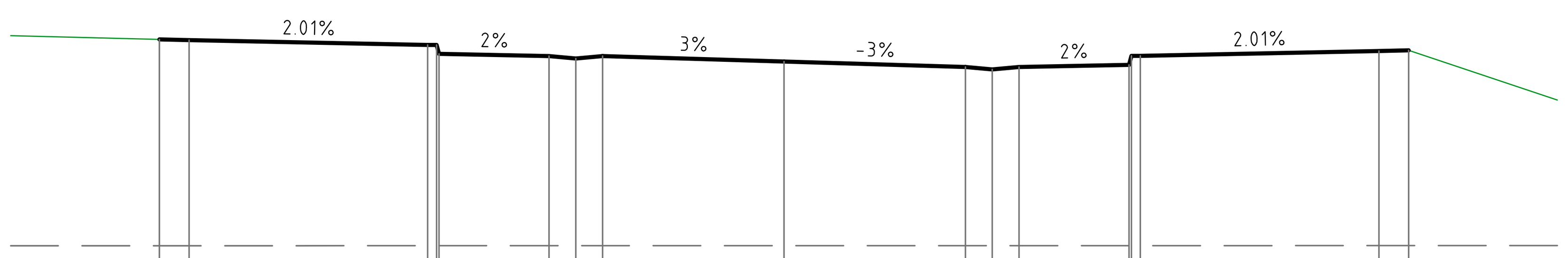



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 19.751 | 19.739 | 19.658 | 19.658 | 19.508 | 19.471 | 19.431 | 19.471 | 19.379 | 19.288 | 19.248 | 19.288 | 19.325 | 19.475 | 19.475 | 19.556 | 19.568 |
| EXISTING SURFACE | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.716 | 16.717 | 16.717 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 110.000

Centreline Data
X = 321320.902
Y = 6256915.245
Z = 19.799

DATUM RL 16.0

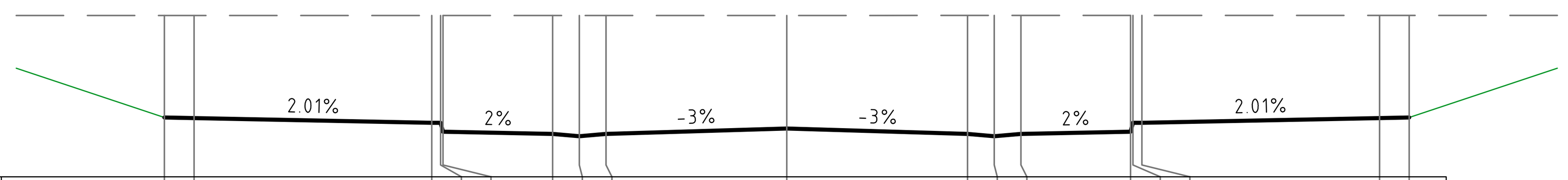



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 20.171 | 20.159 | 20.078 | 20.078 | 19.928 | 19.891 | 19.851 | 19.891 | 19.799 | 19.708 | 19.668 | 19.708 | 19.745 | 19.895 | 19.895 | 19.976 | 19.988 |
| EXISTING SURFACE | 16.714 | 16.714 | 16.714 | 16.714 | 16.714 | 16.714 | 16.714 | 16.714 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.715 | 16.716 | 16.716 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 100.000

Centreline Data
X = 321445.354
Y = 6256952.820
Z = 14.816

DATUM RL 14.0

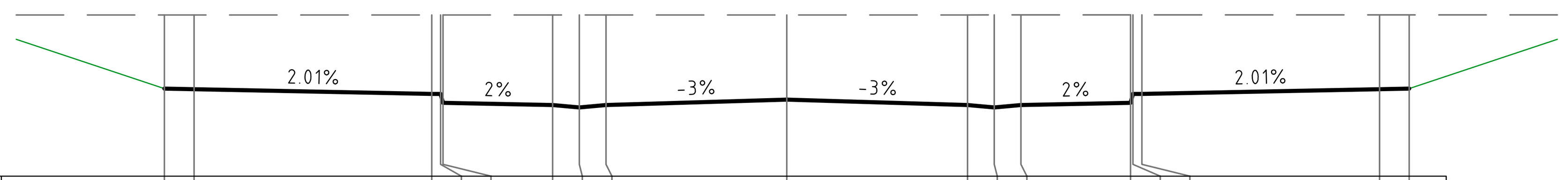



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.003 | 14.993 | 14.912 | 14.912 | 14.762 | 14.725 | 14.685 | 14.725 | 14.816 | 14.725 | 14.685 | 14.725 | 14.762 | 14.912 | 14.912 | 14.993 | 15.003 |
| EXISTING SURFACE | 16.726 | 16.726 | 16.726 | 16.726 | 16.726 | 16.726 | 16.726 | 16.726 | 16.727 | 16.727 | 16.727 | 16.727 | 16.727 | 16.727 | 16.727 | 16.728 | 16.728 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 230.000

Centreline Data
X = 321435.780
Y = 6256949.929
Z = 15.294

DATUM RL 14.0

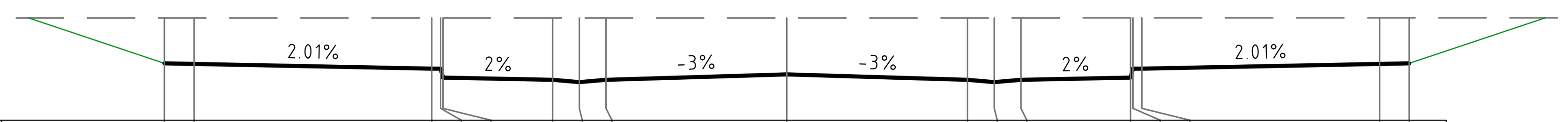



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.480 | 15.470 | 15.390 | 15.390 | 15.240 | 15.203 | 15.163 | 15.203 | 15.294 | 15.203 | 15.163 | 15.203 | 15.240 | 15.390 | 15.390 | 15.470 | 15.480 |
| EXISTING SURFACE | 16.724 | 16.725 | 16.725 | 16.725 | 16.725 | 16.725 | 16.725 | 16.725 | 16.725 | 16.726 | 16.726 | 16.726 | 16.726 | 16.726 | 16.726 | 16.726 | 16.726 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 220.000

Centreline Data
X = 321426.207
Y = 6256947.039
Z = 15.773

DATUM RL 15.0

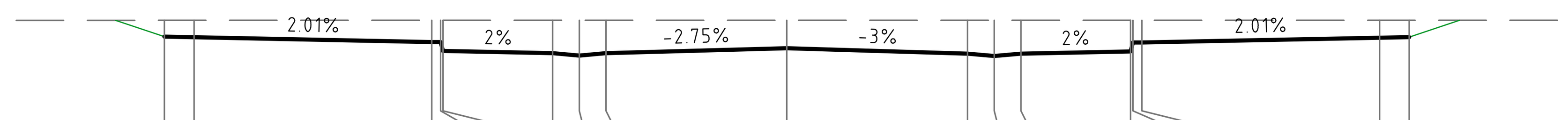



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 15.960 | 15.950 | 15.869 | 15.869 | 15.719 | 15.682 | 15.642 | 15.682 | 15.773 | 15.682 | 15.642 | 15.682 | 15.719 | 15.869 | 15.869 | 15.950 | 15.960 |
| EXISTING SURFACE | 16.723 | 16.723 | 16.723 | 16.723 | 16.723 | 16.723 | 16.723 | 16.723 | 16.723 | 16.724 | 16.724 | 16.724 | 16.724 | 16.724 | 16.724 | 16.724 | 16.724 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 210.000

Centreline Data
X = 321416.634
Y = 6256944.149
Z = 16.253

DATUM RL 15.0

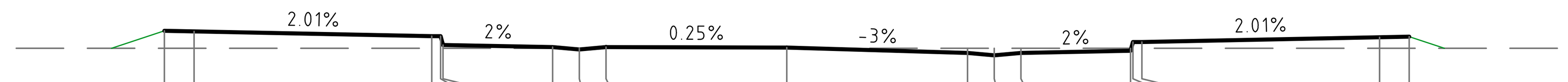



| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 16.446 | 16.436 | 16.356 | 16.356 | 16.206 | 16.169 | 16.129 | 16.169 | 16.253 | 16.161 | 16.121 | 16.161 | 16.198 | 16.348 | 16.348 | 16.429 | 16.439 |
| EXISTING SURFACE | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.721 | 16.721 | 16.721 | 16.721 | 16.721 | 16.721 | 16.721 | 16.721 | 16.721 | 16.721 | 16.721 | 16.721 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 200.000

Centreline Data
X = 321407.061
Y = 6256941.258
Z = 16.732

DATUM RL 16.0




| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FINISHED SURFACE | 17.017 | 17.007 | 16.926 | 16.926 | 16.776 | 16.739 | 16.699 | 16.739 | 16.732 | 16.640 | 16.600 | 16.640 | 16.677 | 16.827 | 16.827 | 16.908 | 16.918 |
| EXISTING SURFACE | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 | 16.720 |
| OFFSET | -10.500 | -10.000 | -5.990 | -5.840 | -5.800 | -3.950 | -3.500 | -3.050 | 0.000 | 3.050 | 3.500 | 3.950 | 5.800 | 5.840 | 5.990 | 10.000 | 10.500 |

CHAINAGE 190.000

MC60

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 03 | REISSUED FOR DA | BM | | AR | 06.10.23 |

CLIENT
SEKISUI HOUSE
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ARCHITECT

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SCALE 1:100 @ A1 0 1 2 3 4 5m

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CROSS SECTIONS SHEET 42

JOB NUMBER 150077-60
DRAWING NUMBER C04.122
REVISION 03
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C04.81.dwg

## PIT SCHEDULE

| PIT Name | PIT Type |
|---|---|
| A01-01 | G.G.P. 1.8m E.K.I. |
| A01-02 | G.G.P. 1.8m E.K.I. |
| A01-03 | G.G.P. 1.8m E.K.I. |
| A01-04 | G.G.P. 2.4m E.K.I. |
| A01-05 | WELDLOK 900x600 DCG96D |
| A01-06 | WELDLOK 900x600 DCG96D |
| A01-07 | WELDLOK 900x600 DCG96D |
| A01-08 | G.G.P. 2.4m E.K.I. |
| A01-09 | WELDLOK 900x600 DCG96D |
| A01-10 | WELDLOK 900x600 DCG96D |
| A01-11 | WELDLOK 900x600 DCG96D |
| A01-12 | G.G.P. 1.8m E.K.I. |
| A01-13 | WELDLOK 900x600 DCG96D |
| A01-14 | WELDLOK 900x600 DCG96D |
| A01-15 | WELDLOK 900x600 DCG96D |
| A01-16 | WELDLOK 900x600 DCG96D |
| A01-17 | G.G.P. 1.8m E.K.I. |
| A01-18 | G.G.P. 1.8m E.K.I. |
| A01-19 | G.G.P. 2.4m E.K.I. SAG |
| A01-20 | G.G.P. 1.8m E.K.I. |
| A02-01 | G.G.P. 2.4m E.K.I. |
| A02-02 | G.G.P. 1.8m E.K.I. |
| A02-03 | G.G.P. 1.8m E.K.I. |
| A02-04 | G.G.P. 1.8m E.K.I. |
| A02-05 | 900x900 R.S.I.P. SAG |
| A03-01 | WELDLOK 900x600 DCG96D |
| A04-01 | 900x900 G.S.I.P. SAG |
| A04-02 | G.G.P. 1.8m E.K.I. |
| A04-03 | G.G.P. 2.4m E.K.I. |
| A05-01 | G.G.P. 2.4m E.K.I. |
| A06-01 | S.J. |
| A06-02 | WELDLOK 900x600 DCG96D SAG |
| A07-01 | WELDLOK 900x600 DCG96D |
| A08-01 | G.G.P. 1.8m E.K.I. |
| A09-01 | G.G.P. 1.8m E.K.I. |
| A10-01 | G.G.P. 2.4m E.K.I. |
| A11-01 | G.G.P. 1.8m E.K.I. |
| A12-01 | WELDLOK 900x600 DCG96D |
| A13-01 | S.J. |
| A13-02 | G.P.T. |
| A13-03 | END |
| A16-01 | WELDLOK 900x600 DCG96D |
| A17-01 | WELDLOK 900x600 DCG96D |
| A18-01 | WELDLOK 900x600 DCG96D |
| A20-01 | S.J. |
| A23-01 | G.G.P. 1.8m E.K.I. |
| A23-02 | G.G.P. 1.8m E.K.I. |
| A23-03 | WELDLOK 900x600 DCG96D |
| A23-04 | G.G.P. 1.8m E.K.I. |
| A23-05 | G.G.P. 1.8m E.K.I. |
| A24-01 | WELDLOK 900x600 DCG96D |
| A25-01 | WELDLOK 900x600 DCG96D |
| A27-01 | G.G.P. 1.8m E.K.I. |
| B01-01 | G.G.P. 2.4m E.K.I. |
| B01-02 | G.G.P. 1.8m E.K.I. |
| B01-03 | G.G.P. 1.8m E.K.I. |
| B01-04 | G.G.P. 2.4m E.K.I. |
| B01-05 | G.G.P. 1.8m E.K.I. |
| B01-06 | WELDLOK 900x600 DCG96D |
| B01-07 | WELDLOK 900x600 DCG96D |
| B01-08 | G.G.P. 1.8m E.K.I. |
| B01-09 | G.G.P. 1.8m E.K.I. |
| B01-10 | G.G.P. 900x450 (NO LINTEL) |
| B01-11 | WELDLOK 900x600 DCG96D |
| B01-12 | G.G.P. 2.4m E.K.I. |
| B01-13 | WELDLOK 900x600 DCG96D |
| B01-14 | WELDLOK 900x600 DCG96D |
| B01-15 | WELDLOK 900x600 DCG96D |
| B02-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| B02-02 | G.G.P. 1.8m E.K.I. |
| B02-03 | G.G.P. 1.8m E.K.I. |
| B02-04 | 900x900 J.P. |
| B02-05 | 900x900 J.P. |
| B02-06 | 900x900 J.P. |
| B02-07 | G.G.P. 1.8m E.K.I. |
| B03-01 | G.G.P. 1.8m E.K.I. |
| B03-02 | G.G.P. 1.8m E.K.I. |
| B03-03 | WELDLOK 900x600 DCG96D |
| B03-04 | G.G.P. 1.8m E.K.I. |
| B03-05 | G.G.P. 1.8m E.K.I. |
| B03-06 | G.G.P. 1.8m E.K.I. |
| B03-07 | G.G.P. 1.8m E.K.I. |
| B03-08 | 900x900 J.P. |
| B03-09 | 900x900 J.P. |
| B03-10 | G.G.P. 1.8m E.K.I. |
| B03-11 | WELDLOK 900x600 DCG96D |
| B03-12 | G.G.P. 2.4m E.K.I. |
| B03-13 | G.G.P. 1.8m E.K.I. |
| B03-14 | 1200x1200 R.S.I.P. SAG |
| B03-15 | 1200x1200 R.S.I.P. SAG |
| B04-01 | WELDLOK 900x600 DCG96D |
| B04-02 | WELDLOK 900x600 DCG96D |
| B04-03 | G.G.P. 2.4m E.K.I. |
| B04-04 | WELDLOK 900x600 DCG96D |
| B04-05 | G.G.P. 2.4m E.K.I. |
| B04-06 | G.G.P. 1.8m E.K.I. |
| B04-07 | G.G.P. 1.8m E.K.I. |
| B04-08 | G.G.P. 1.8m E.K.I. |
| B04-09 | G.G.P. 1.8m E.K.I. |
| B04-10 | WELDLOK 900x600 DCG96D |
| B04-11 | WELDLOK 900x600 DCG96D |
| B05-01 | G.G.P. 1.8m E.K.I. |
| B05-02 | G.G.P. 1.8m E.K.I. |
| B05-03 | 900x900 J.P. |
| B05-04 | G.G.P. 1.8m E.K.I. |
| B05-05 | G.G.P. 1.8m E.K.I. |
| B05-06 | G.G.P. 3.6m E.K.I. SAG |
| B05-07 | G.G.P. 2.4m E.K.I. SAG |
| B05-08 | DUAL WELDLOK 900x600 DCG96D |
| B06-01 | G.G.P. 1.8m E.K.I. |
| B06-02 | G.G.P. 2.4m E.K.I. |
| B06-03 | WELDLOK 900x600 DCG96D |
| B06-04 | G.G.P. 1.2m E.K.I. |
| B06-05 | WELDLOK 900x600 DCG96D |
| B06-06 | WELDLOK 900x600 DCG96D |
| B06-07 | G.G.P. 1.8m E.K.I. |
| B07-01 | S.J. |
| B07-02 | G.G.P. 1.8m E.K.I. |
| B07-03 | G.G.P. 2.4m E.K.I. |
| B08-01 | S.J. |
| B08-02 | G.G.P. 1.8m E.K.I. |
| B08-03 | G.G.P. 1.8m E.K.I. |
| B08-04 | G.G.P. 1.8m E.K.I. |
| B09-01 | WELDLOK 900x600 DCG96D |
| B10-01 | G.G.P. 1.2m E.K.I. |
| B11-01 | G.G.P. 1.8m E.K.I. |
| B12-01 | G.G.P. 1.8m E.K.I. |
| B13-01 | G.G.P. 1.8m E.K.I. |
| B14-01 | WELDLOK 900x600 DCG96D |
| B16-01 | WELDLOK 900x600 DCG96D |
| B17-01 | S.J. |
| B17-02 | WELDLOK 900x600 DCG96D |
| B18-01 | WELDLOK 900x600 DCG96D |
| B19-01 | S.J. |
| B19-02 | G.G.P. 1.8m E.K.I. |
| B20-01 | WELDLOK 900x600 DCG96D |
| B20-02 | WELDLOK 900x600 DCG96D |
| B20-03 | G.G.P. 1.8m E.K.I. |
| B20-04 | G.G.P. 1.8m E.K.I. |
| B20-05 | G.G.P. 1.8m E.K.I. |
| B23-01 | S.J. |
| B23-02 | G.G.P. 1.8m E.K.I. |
| B25-01 | G.G.P. 1.8m E.K.I. |
| B26-01 | S.J. |
| B26-02 | G.G.P. 2.4m E.K.I. SAG |
| B27-01 | G.G.P. 1.8m E.K.I. |
| B28-01 | S.J. |
| B28-02 | G.P.T. |
| B28-03 | END |
| B30-01 | G.G.P. 1.8m E.K.I. |
| B31-01 | WELDLOK 900x600 DCG96D |
| B32-01 | WELDLOK 900x600 DCG96D |
| B33-01 | G.G.P. 1.8m E.K.I. |
| B33-02 | G.G.P. 1.8m E.K.I. |
| B33-03 | G.G.P. 1.8m E.K.I. |
| B34-01 | WELDLOK 900x600 DCG96D |
| B34-02 | WELDLOK 900x600 DCG96D |
| B35-01 | WELDLOK 900x600 DCG96D |
| B36-01 | WELDLOK 900x600 DCG96D |
| B37-01 | G.G.P. 1.8m E.K.I. |
| B38-01 | S.J. |
| B39-01 | G.G.P. 1.8m E.K.I. |
| B40-01 | WELDLOK 900x600 DCG96D |
| B41-01 | WELDLOK 900x600 DCG96D |
| B42-01 | S.J. |
| B42-02 | WELDLOK 900x600 DCG96D |
| B43-01 | WELDLOK 900x600 DCG96D |
| B43-02 | WELDLOK 900x600 DCG96D |
| B45-01 | G.G.P. 1.8m E.K.I. |
| B46-01 | WELDLOK 900x600 DCG96D |
| B47-01 | G.G.P. 2.4m E.K.I. SAG |
| B47-02 | G.G.P. 2.4m E.K.I. SAG |
| B47-03 | G.G.P. 2.4m E.K.I. SAG |
| B47-04 | G.G.P. 2.4m E.K.I. SAG |
| B47-05 | G.G.P. 2.4m E.K.I. SAG |
| B49-01 | S.J. |
| B49-02 | 900x900 G.S.I.P. IAD |
| B49-03 | 900x900 G.S.I.P. IAD |
| B49-04 | 900x900 G.S.I.P. IAD |
| B49-05 | 900x900 G.S.I.P. IAD |
| B49-06 | G.G.P. 1.8m E.K.I. |
| B50-01 | WELDLOK 900x600 DCG96D |
| B50-02 | WELDLOK 900x600 DCG96D |
| B54-01 | G.G.P. 1.8m E.K.I. |
| B54-02 | G.G.P. 1.8m E.K.I. |
| B54-03 | G.G.P. 1.8m E.K.I. |
| B54-04 | G.G.P. 1.8m E.K.I. |
| B54-05 | WELDLOK 900x600 DCG96D |
| B54-06 | WELDLOK 900x600 DCG96D |
| B54-07 | WELDLOK 900x600 DCG96D |
| B54-08 | G.G.P. 2.4m E.K.I. SAG |
| B54-09 | G.G.P. 2.4m E.K.I. |
| B54-10 | WELDLOK 900x600 DCG96D |
| B55-01 | G.G.P. 1.8m E.K.I. |
| B56-01 | G.G.P. 2.4m E.K.I. |
| B57-01 | G.G.P. 1.8m E.K.I. |
| B58-01 | G.G.P. 1.8m E.K.I. |
| B59-01 | WELDLOK 900x600 DCG96D |
| B60-01 | WELDLOK 900x600 DCG96D |
| B60-02 | WELDLOK 900x600 DCG96D |
| B61-01 | S.J. |
| B61-02 | G.G.P. 1.8m E.K.I. |
| B61-03 | G.G.P. 1.8m E.K.I. |
| B62-01 | S.J. |
| B62-02 | G.G.P. 1.8m E.K.I. |
| B63-01 | G.G.P. 1.8m E.K.I. |
| B65-01 | G.G.P. 1.8m E.K.I. |
| B66-01 | S.J. |
| B68-01 | G.G.P. 1.8m E.K.I. |
| B69-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| B70-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| B71-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| B72-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| B73-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| B74-01 | WELDLOK 900x600 DCG96D |
| B74-02 | G.G.P. 1.8m E.K.I. |
| B74-03 | G.G.P. 1.8m E.K.I. |
| B74-04 | WELDLOK 900x600 DCG96D |
| B74-05 | WELDLOK 900x600 DCG96D |
| B74-06 | G.G.P. 2.4m E.K.I. SAG |
| B74-07 | 900x900 J.P. |
| B74-08 | 1500x1500 R.S.I.P. SAG |
| C01-01 | WELDLOK 900x600 DCG96D |
| C01-02 | WELDLOK 900x600 DCG96D |
| C01-03 | G.G.P. 900x450 (NO LINTEL) |
| C01-04 | WELDLOK 900x600 DCG96D |
| C01-05 | G.G.P. 2.4m E.K.I. SAG |
| C01-06 | G.P.T. |
| C01-07 | G.G.P. 1.8m E.K.I. |
| C01-08 | G.G.P. 1.8m E.K.I. |
| C02-01 | S.J. |
| C02-02 | G.G.P. 2.4m E.K.I. SAG |
| C03-01 | G.G.P. 900x450 (NO LINTEL) |
| C04-01 | WELDLOK 900x600 DCG96D |
| C04-02 | WELDLOK 900x600 DCG96D |
| C04-03 | G.G.P. 1.8m E.K.I. |
| C04-04 | WELDLOK 900x600 DCG96D |
| C04-05 | WELDLOK 900x600 DCG96D |
| C04-06 | G.G.P. 1.8m E.K.I. |
| C04-07 | WELDLOK 900x530 RFK95SYD |
| C04-08 | G.G.P. 1.8m E.K.I. |
| C05-01 | WELDLOK 900x600 DCG96D |
| C06-01 | G.G.P. 1.8m E.K.I. |
| C07-01 | G.G.P. 1.8m E.K.I. |
| C08-01 | WELDLOK 900x600 DCG96D |
| C09-01 | S.J. |
| C10-01 | WELDLOK 900x600 DCG96D |
| C11-01 | G.G.P. 1.8m E.K.I. |
| C12-01 | 1200x1200 R.S.I.P. SAG |
| C13-01 | G.G.P. 1.2m E.K.I. |
| C13-02 | G.G.P. 1.2m E.K.I. |
| D01-01 | WELDLOK 900x600 DCG96D |
| D01-02 | WELDLOK 900x600 DCG96D |
| D01-03 | G.G.P. 2.4m E.K.I. SAG |
| D02-01 | S.J. |
| D07-01 | G.G.P. 1.8m E.K.I. |
| D07-02 | G.G.P. 1.8m E.K.I. |
| E01-01 | G.G.P. 1.8m E.K.I. |
| E01-02 | G.G.P. 1.8m E.K.I. |
| E01-03 | 900x900 J.P. |
| E01-04 | 900x900 J.P. |
| E01-05 | G.G.P. 1.8m E.K.I. |
| E02-01 | G.G.P. 1.8m E.K.I. |
| E02-02 | G.G.P. 2.4m E.K.I. SAG |
| E03-01 | S.J. |
| E04-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| E05-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| E06-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| F01-01 | S.J. |
| G01-01 | 900x900 G.S.I.P. SAG |
| G01-02 | 900x900 J.P. |
| G01-03 | 900x900 J.P. |
| H01-01 | G.G.P. 1.8m E.K.I. |
| H01-02 | G.G.P. 1.8m E.K.I. |
| H01-03 | WELDLOK 900x600 DCG96D |
| H01-04 | WELDLOK 900x600 DCG96D |
| H01-05 | WELDLOK 900x600 DCG96D |
| H01-06 | WELDLOK 900x600 DCG96D |
| H01-07 | WELDLOK 900x600 DCG96D |
| H01-08 | WELDLOK 900x600 DCG96D |
| H01-09 | G.G.P. 1.8m E.K.I. |
| H01-10 | WELDLOK 900x600 DCG96D |
| H01-11 | G.G.P. 0.9m E.K.I. |
| H01-12 | 1800x1800 J.P. |
| H01-13 | 1800x1800 J.P. |
| H01-14 | 1200x1200 R.S.I.P. SAG |
| W01-01 | G.G.P. 1.8m E.K.I. |
| W01-02 | G.G.P. 1.8m E.K.I. |
| W01-03 | G.G.P. 1.8m E.K.I. |
| W01-04 | G.G.P. 1.8m E.K.I. |
| W01-05 | G.G.P. 1.8m E.K.I. |
| W01-06 | G.G.P. 1.8m E.K.I. |
| W01-07 | G.G.P. 1.8m E.K.I. |
| W01-08 | G.G.P. 1.8m E.K.I. |
| W01-09 | G.G.P. 1.8m E.K.I. |
| W01-10 | G.G.P. 1.8m E.K.I. |
| W01-11 | G.G.P. 1.8m E.K.I. |
| W01-12 | G.G.P. 1.8m E.K.I. |
| W01-13 | G.G.P. 1.8m E.K.I. |
| W01-14 | G.G.P. 2.4m E.K.I. |
| W01-15 | G.G.P. 3.6m E.K.I. SAG |
| W01-16 | G.G.P. 3.6m E.K.I. SAG |
| W01-17 | 900x900 J.P. |
| W03-01 | G.S.I.P. 900x900 1m GRASS SWALE |
| W03-02 | G.S.I.P. 900x900 1m GRASS SWALE |
| W07-01 | G.G.P. 2.4m E.K.I. |
| W07-02 | G.G.P. 2.4m E.K.I. |
| W07-03 | G.G.P. 2.4m E.K.I. |
| W07-04 | G.G.P. 2.4m E.K.I. |

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 16.02.23 |
| 08 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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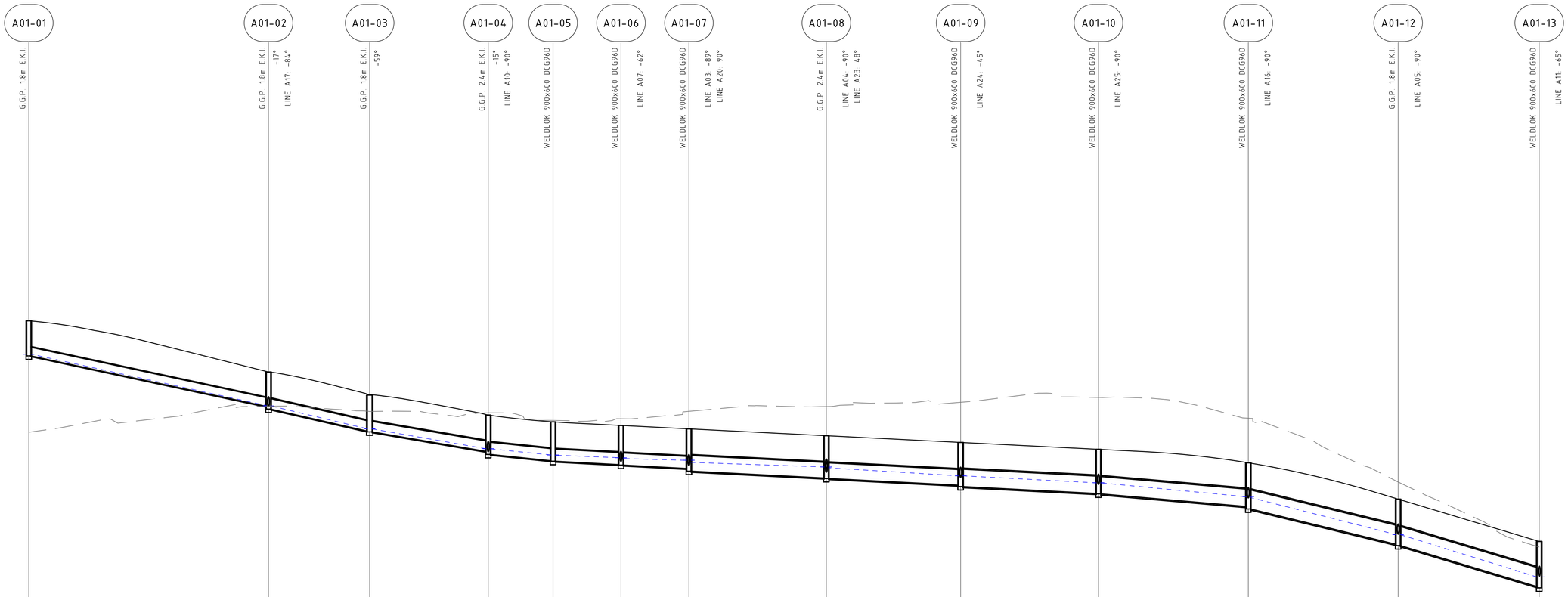
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER PIT SCHEDULE

JOB NUMBER 150077-60
DRAWING NUMBER C05.01
REVISION 08
DRAWING SHEET SIZE = A1

Plotted: 7/02/2024 8:00:37 PM - Melrose Park Infrastructure DA - 150077-60 Drawings\Civil\150077-60 C05.01.dwg




| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | | 4.2% | 4.4% | 3.3% | 2.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% | 1.7% | 4.7% | 5.8% | |
| PIPE SIZE (mm) | | 375 | 450 | 450 | 525 | 525 | 525 | 675 | 675 | 750 | 750 | 825 | 825 | |
| MINIMUM COVER (m) | | 1.10 | 1.10 | 1.10 | 1.10 | 1.12 | 1.14 | 1.10 | 1.12 | 1.10 | 1.10 | 1.10 | 1.10 | |
| Vf - FULL PIPE VELOCITY (m/s) | | Vf=1.26 | Vf=1.36 | Vf=1.46 | Vf=0.91 | Vf=1.02 | Vf=1.19 | Vf=1.75 | Vf=2.36 | Vf=2.13 | Vf=2.49 | Vf=2.49 | Vf=2.72 | |
| Q - PIPE FLOW (L/s) | | Q=8 | Q=35 | Q=46 | Q=90 | Q=111 | Q=142 | Q=360 | Q=531 | Q=603 | Q=638 | Q=681 | Q=734 | |
| DATUM RL | | 13.0 | | | | | | | | | | | | |
| H.G.L. (5%AEP) | 31.990<br>31.994 | 29.778<br>29.760 | 29.761 | 28.767<br>28.770 | 28.767 | 27.907<br>27.910 | 27.907 | 27.638<br>27.640 | 27.630 | 27.520<br>27.530 | 27.483 | 27.407<br>27.410 | 27.318 | 27.123<br>27.120 |
| | 27.083 | 26.739<br>26.740 | 26.739 | 26.435<br>26.440 | 26.435 | 25.835<br>25.840 | 25.802 | 24.200<br>24.200 | 24.200 | 22.368<br>22.370 | | | | |
| FINISHED SURFACE | 33.435 | 31.224 | | 30.226 | | 29.362 | | 29.069 | | 28.914 | | 28.767 | | 28.471 |
| | 28.181 | 27.883 | | 27.301 | | 25.731 | | 23.904 | | | | | | |
| NATURAL SURFACE | 28.622 | 29.745 | | 29.518 | | 29.461 | | 29.129 | | 29.203 | | 29.525 | | 29.730 |
| | 29.915 | 30.122 | | 29.226 | | 26.470 | | 23.660 | | | | | | |
| PIPE INVERT LEVEL | 31.917 | 29.737 | | 28.668 | | 27.793 | | 27.388 | | 27.221 | | 27.054 | | 26.643 |
| | 26.333 | 25.977 | | 25.414 | | 23.779 | | 21.952 | | | | | | |
| DEPTH TO INVERT | 1.518 | 1.488 | | 1.558 | | 1.569 | | 1.681 | | 1.693 | | 1.713 | | 1.828 |
| | 1.848 | 1.907 | | 1.887 | | 1.952 | | 1.952 | | | | | | |
| CO-ORDINATED SETOUT | E321110.286<br>N6257184.148 | E321060.740<br>N6257169.189 | | E321042.561<br>N6257157.089 | | E321043.558<br>N6257131.500 | | E321047.603<br>N6257118.103 | | E321051.843<br>N6257104.057 | | E321056.082<br>N6257090.017 | | E321064.660<br>N6257061.608 |
| | E321073.039<br>N6257033.855 | E321081.642<br>N6257005.359 | | E321090.994<br>N6256974.385 | | E321100.345<br>N6256943.411 | | E321109.148<br>N6256914.255 | | | | | | |
| CHAINAGE | 0.000 | 51.756 | | 73.593 | | 99.201 | | 113.195 | | 127.868 | | 142.534 | | 172.209 |
| | 201.199 | 230.966 | | 263.321 | | 295.676 | | 326.132 | | | | | | |

LINE A01

PROJECT: P.SUTTON | DESIGNED: A.RIVETT | DRAWN: B.MAZZA | VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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0 5 10 15 20 25m

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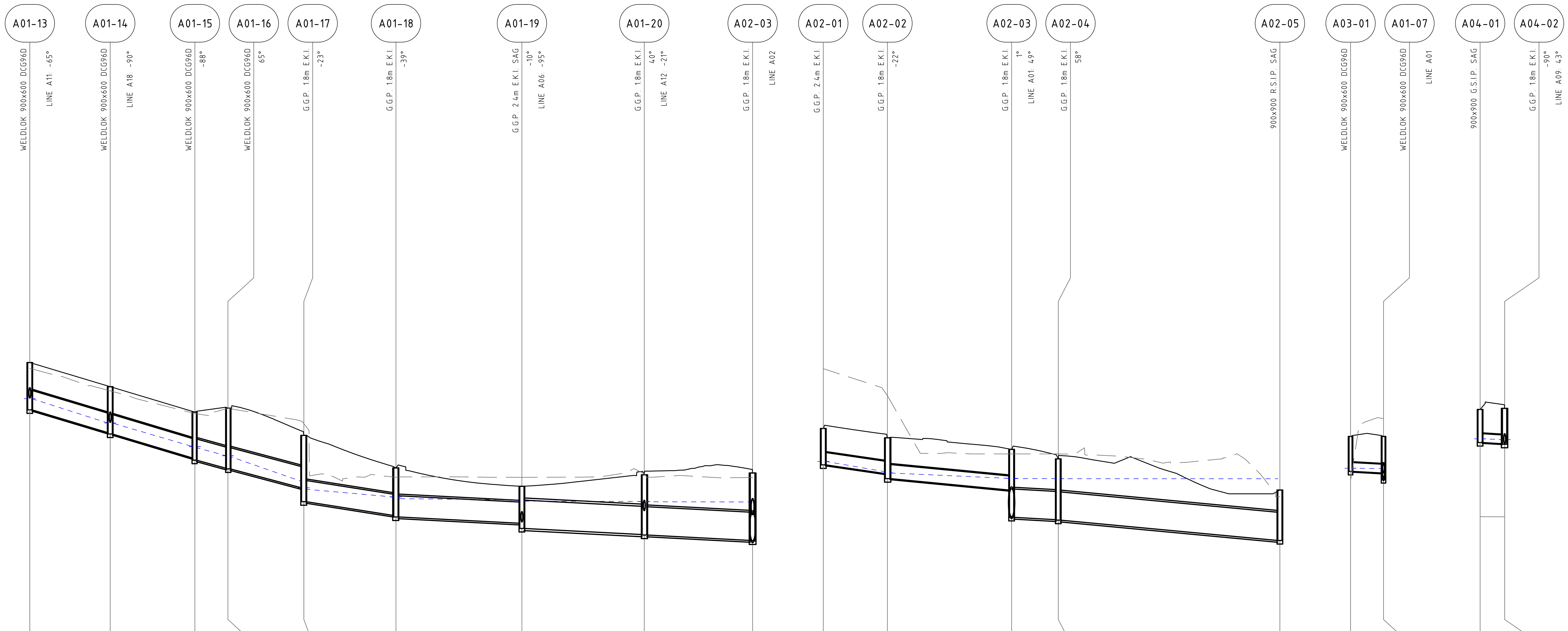
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 01

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.11
REVISION: 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 9:00:17 AM | Melrose Park Infrastructure DA - 2021\3-Drawings\C-Civil\150077-60 CAD\STORMWATER\150077-60_C05.11.dwg




## LINE A01

| Pipe | PIPE CLASS | PIPE GRADE (%) | PIPE SIZE (mm) | MINIMUM COVER (m) | Vf - FULL PIPE VELOCITY (m/s) | Q - PIPE FLOW (L/s) |
|---|---|---|---|---|---|---|
| A01-13 – A01-14 | RRJ2 | 5.7% | 825 | 1.10 | Vf=2.89 | Q=764 |
| A01-14 – A01-15 | RRJ2 | 5.7% | 825 | 1.10 | Vf=2.54 | Q=786 |
| A01-15 – A01-16 | RRJ2 | 5.0% | 900 | 1.10 | Vf=2.08 | Q=800 |
| A01-16 – A01-17 | RRJ2 | 5.0% | 900 | 1.45 | Vf=5.04 | Q=804 |
| A01-17 – A01-18 | RRJ2 | 3.0% | 900 | 1.10 | Vf=2.09 | Q=810 |
| A01-18 – A01-19 | RRJ4 | 1.0% | 900 | 0.60 | Vf=1.42 | Q=831 |
| A01-19 – A01-20 | RRJ4 | 1.0% | 1200 | 0.50 | Vf=0.84 | Q=943 |
| A01-20 – A02-03 | RRJ2 | 1.0% | 1200 | 1.43 | Vf=0.87 | Q=989 |

DATUM RL 5.0

| Pit | H.G.L. (5%AEP) | FINISHED SURFACE | NATURAL SURFACE | PIPE INVERT LEVEL | DEPTH TO INVERT | CO-ORDINATED SETOUT | CHAINAGE |
|---|---|---|---|---|---|---|---|
| A01-13 | 22.368 22.370 / 22.368 | 23.904 | 23.660 | 21.952 / 21.898 | 1.952 / 2.006 | E321109.148 N6256914.255 | 326.132 |
| A01-14 | 21.337 21.340 / 21.337 | 22.880 | 22.703 | 20.928 / 20.874 | 1.952 / 2.006 | E321114.082 N6256897.914 | 343.201 |
| A01-15 | 20.337 20.340 / 20.288 | 21.802 | 21.741 | 19.850 / 19.764 | 1.952 / 2.038 | E321119.276 N6256880.710 | 361.172 |
| A01-16 | 19.953 19.950 / 19.919 | 21.967 | 21.953 | 19.413 / 19.393 | 2.554 / 2.574 | E321126.065 N6256882.459 | 368.183 |
| A01-17 | 18.856 18.590 / 18.528 | 20.814 | 21.311 | 18.587 / 18.000 | 2.227 / 2.814 | E321136.313 N6256870.018 | 384.301 |
| A01-18 | 18.199 18.200 / 18.129 | 19.433 | 19.037 | 17.414 / 17.353 | 2.019 / 2.080 | E321153.723 N6256861.115 | 403.855 |
| A01-19 | 18.076 18.080 / 18.022 | 18.654 | 19.035 | 17.085 / 16.865 | 1.569 / 1.789 | E321179.883 N6256866.611 | 430.586 |
| A01-20 | 18.011 18.010 / 17.996 | 19.140 | 19.186 | 16.605 / 16.585 | 2.535 / 2.555 | E321204.004 N6256876.234 | 456.556 |
| A02-03 | 17.989 / 17.980 | 19.219 | 19.026 | 16.355 / 16.335 | 2.863 / 2.883 | E321225.794 N6256868.877 | 479.555 |

## LINE A02

| Pipe | PIPE CLASS | PIPE GRADE (%) | PIPE SIZE (mm) | MINIMUM COVER (m) | Vf - FULL PIPE VELOCITY (m/s) | Q - PIPE FLOW (L/s) |
|---|---|---|---|---|---|---|
| A02-01 – A02-02 | RRJ2 | 2.7% | 525 | 1.10 | Vf=1.77 | Q=35 |
| A02-02 – A02-03 | RRJ2 | 1.9% | 600 | 1.10 | Vf=0.66 | Q=70 |
| A02-03 – A02-04 | RRJ2 | 1.0% | 1200 | 1.48 | Vf=0.95 | Q=1079 |
| A02-04 – A02-05 | RRJ2 | 1.8% | 1200 | 0.51 | Vf=1.03 | Q=1163 |

DATUM RL 4.0

| Pit | H.G.L. (5%AEP) | FINISHED SURFACE | NATURAL SURFACE | PIPE INVERT LEVEL | DEPTH TO INVERT | CO-ORDINATED SETOUT | CHAINAGE |
|---|---|---|---|---|---|---|---|
| A02-01 | 18.710 / 18.711 | 20.107 | 22.643 | 18.563 | 1.543 | E321215.034 N6256906.670 | 0.000 |
| A02-02 | 18.270 18.220 / 18.220 | 19.709 | 21.497 | 18.192 / 17.979 | 1.517 / 1.729 | E321215.307 N6256893.054 | 13.619 |
| A02-03 | 17.989 17.990 / 17.980 | 19.219 | 19.026 | 17.492 / 16.335 | 1.727 / 2.883 | E321225.794 N6256868.877 | 39.973 |
| A02-04 | 17.979 17.980 / 17.976 | 18.817 | 19.034 | 16.236 / 16.216 | 2.581 / 2.601 | E321229.554 N6256859.705 | 49.886 |
| A02-05 | 17.975 / 17.975 | 17.496 | 17.213 | 15.353 / 15.353 | 2.144 / 2.144 | E321201.840 N6256821.704 | 96.918 |

## LINE A03

| Pipe | PIPE CLASS | PIPE GRADE (%) | PIPE SIZE (mm) | MINIMUM COVER (m) | Vf - FULL PIPE VELOCITY (m/s) | Q - PIPE FLOW (L/s) |
|---|---|---|---|---|---|---|
| A03-01 – A01-07 | RRJ2 | 1.0% | 375 | 1.10 | Vf=0.27 | Q=9 |

DATUM RL 13.0

| Pit | H.G.L. (5%AEP) | FINISHED SURFACE | NATURAL SURFACE | PIPE INVERT LEVEL | DEPTH TO INVERT | CO-ORDINATED SETOUT | CHAINAGE |
|---|---|---|---|---|---|---|---|
| A03-01 | 27.420 / 27.419 | 28.768 | 26.901 | 27.287 | 1.481 | E321062.757 N6257092.129 | 0.000 |
| A01-07 | 27.407 / 27.318 | 28.767 | 29.525 | 27.217 / 26.940 | 1.550 / 1.828 | E321056.082 N6257090.017 | 7.001 |

## LINE A04

| Pipe | PIPE CLASS | PIPE GRADE (%) | PIPE SIZE (mm) | MINIMUM COVER (m) | Vf - FULL PIPE VELOCITY (m/s) | Q - PIPE FLOW (L/s) |
|---|---|---|---|---|---|---|
| A04-01 – A04-02 | RRJ2 | 1.0% | 375 | 1.10 | Vf=0.37 | Q=16 |

DATUM RL 12.0

| Pit | H.G.L. (5%AEP) | FINISHED SURFACE | NATURAL SURFACE | PIPE INVERT LEVEL | DEPTH TO INVERT | CO-ORDINATED SETOUT | CHAINAGE |
|---|---|---|---|---|---|---|---|
| A04-01 | 27.670 / 27.668 | 28.914 | 24.363 | 27.511 | 1.404 | E321081.902 N6257074.734 | 0.000 |
| A04-02 | 27.639 27.640 | 28.960 | 24.359 | 27.459 | 1.501 | E321077.136 N6257076.848 | 5.214 |

**NOT FOR CONSTRUCTION**

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
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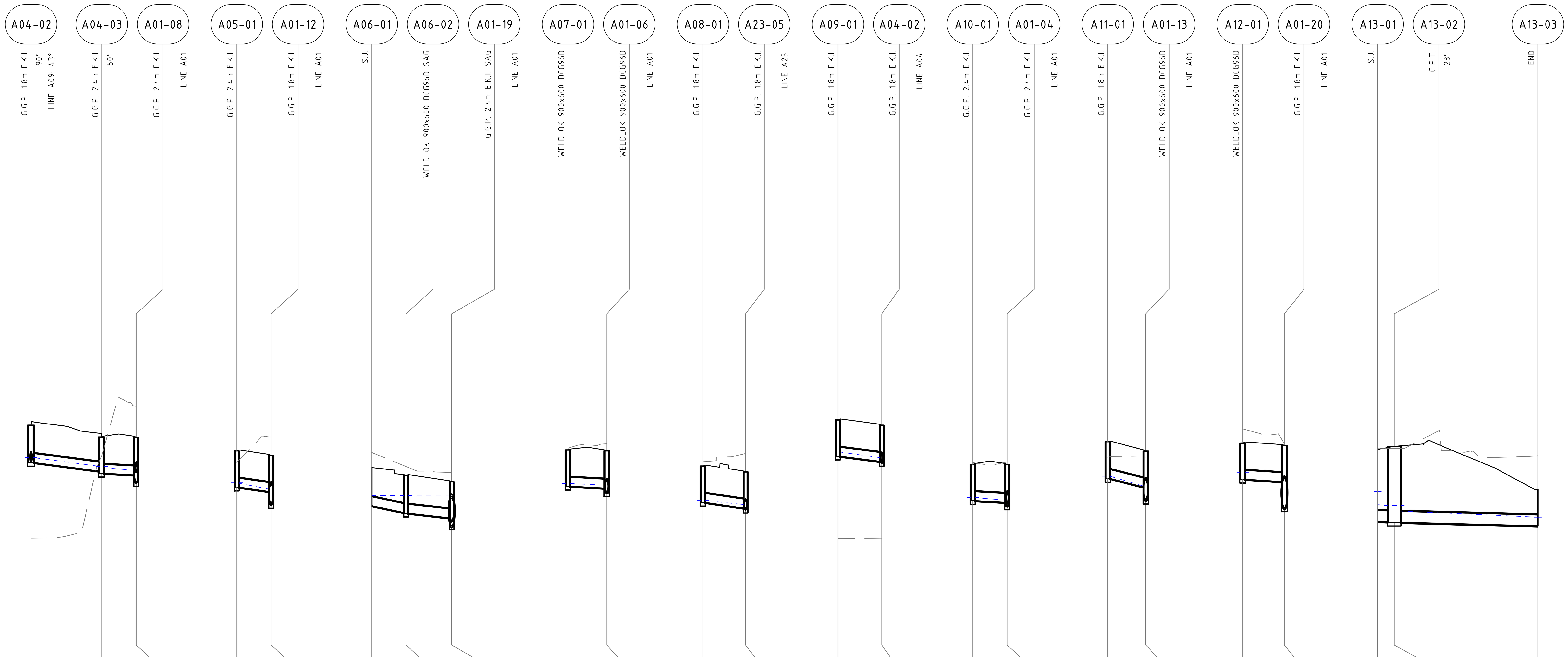
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — STORMWATER LONGITUDINAL SECTIONS SHEET 02

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.12
REVISION: 07
DRAWING SHEET SIZE = A1




## LINE A04

| | A04-02 → A04-03 | A04-03 → A01-08 |
|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 2.5% | 1.0% |
| PIPE SIZE (mm) | 375 | 375 |
| MINIMUM COVER (m) | 1.13 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.29 | Vf=1.65 |
| Q - PIPE FLOW (L/s) | Q=77 | Q=97 |

| DATUM RL 12.0 | A04-02 | A04-03 | A01-08 |
|---|---|---|---|
| H.G.L. (5%AEP) | 27.639 27.640 / 27.639 | 27.283 27.280 / 27.224 | 27.124 / 27.083 |
| FINISHED SURFACE | 28.960 | 28.477 | 28.471 |
| NATURAL SURFACE | 24.359 | 27.721 | 29.730 |
| PIPE INVERT LEVEL | 27.459 / 27.439 | 27.084 / 26.996 | 26.926 / 26.623 |
| DEPTH TO INVERT | 1.501 / 1.521 | 1.393 / 1.481 | 1.545 / 1.848 |
| CO-ORDINATED SETOUT | E321077.136 N6257076.848 | E321071.361 N6257063.631 | E321064.660 N6257061.608 |
| CHAINAGE | 5.214 | 19.638 | 26.638 |

## LINE A05

| | A05-01 → A01-12 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 2.6% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=2.02 |
| Q - PIPE FLOW (L/s) | Q=51 |

| DATUM RL 10.0 | A05-01 | A01-12 |
|---|---|---|
| H.G.L. (5%AEP) | 24.630 / 24.597 | 24.355 / 24.200 |
| FINISHED SURFACE | 25.914 | 25.731 |
| NATURAL SURFACE | 25.443 | 26.470 |
| PIPE INVERT LEVEL | 24.433 | 24.250 / 23.725 |
| DEPTH TO INVERT | 1.481 | 1.481 / 2.006 |
| CO-ORDINATED SETOUT | E321107.046 N6256945.435 | E321100.345 N6256943.411 |
| CHAINAGE | 0.000 | 7.000 |

## LINE A06

| | A06-01 → A06-02 | A06-02 → A01-19 |
|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 4.1% | 2.1% |
| PIPE SIZE (mm) | 375 | 375 |
| MINIMUM COVER (m) | 1.10 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.47 | Vf=0.48 |
| Q - PIPE FLOW (L/s) | Q=51 | Q=53 |

| DATUM RL 4.0 | A06-01 | A06-02 | A01-19 |
|---|---|---|---|
| H.G.L. (5%AEP) | 18.110 / 18.093 | 18.092 18.090 / 18.079 | 18.076 / 18.022 |
| FINISHED SURFACE | 19.231 | 18.906 | 18.654 |
| NATURAL SURFACE | 19.848 | 19.275 | 19.035 |
| PIPE INVERT LEVEL | 17.674 | 17.389 / 17.369 | 17.173 / 16.865 |
| DEPTH TO INVERT | 1.557 | 1.517 / 1.537 | 1.481 / 1.789 |
| CO-ORDINATED SETOUT | E321175.171 N6256882.215 | E321177.195 N6256875.514 | E321179.883 N6256866.611 |
| CHAINAGE | 0.000 | 7.000 | 16.300 |

## LINE A07

| | A07-01 → A01-06 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.46 |
| Q - PIPE FLOW (L/s) | Q=13 |

| DATUM RL 13.0 | A07-01 | A01-06 |
|---|---|---|
| H.G.L. (5%AEP) | 27.580 / 27.580 | 27.520 / 27.483 |
| FINISHED SURFACE | 28.951 | 28.914 |
| NATURAL SURFACE | 29.017 | 29.203 |
| PIPE INVERT LEVEL | 27.468 | 27.389 / 27.201 |
| DEPTH TO INVERT | 1.483 | 1.525 / 1.713 |
| CO-ORDINATED SETOUT | E321057.485 N6257109.590 | E321051.843 N6257104.057 |
| CHAINAGE | 0.000 | 7.902 |

## LINE A08

| | A08-01 → A23-05 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 2.7% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.42 |
| Q - PIPE FLOW (L/s) | Q=7 |

| DATUM RL 14.0 | A08-01 | A23-05 |
|---|---|---|
| H.G.L. (5%AEP) | 27.890 / 27.888 | 27.730 / 27.698 |
| FINISHED SURFACE | 29.295 | 29.056 |
| NATURAL SURFACE | 29.468 | 29.793 |
| PIPE INVERT LEVEL | 27.813 | 27.575 / 27.530 |
| DEPTH TO INVERT | 1.481 | 1.481 / 1.526 |
| CO-ORDINATED SETOUT | E321048.157 N6257076.597 | E321050.736 N6257068.294 |
| CHAINAGE | 0.000 | 8.695 |

## LINE A09

| | A09-01 → A04-02 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 2.4% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.07 |
| Q - PIPE FLOW (L/s) | Q=48 |

| DATUM RL 12.0 | A09-01 | A04-02 |
|---|---|---|
| H.G.L. (5%AEP) | 27.870 / 27.866 | 27.639 / 27.639 |
| FINISHED SURFACE | 29.174 | 28.960 |
| NATURAL SURFACE | 24.341 | 24.359 |
| PIPE INVERT LEVEL | 27.694 | 27.478 / 27.439 |
| DEPTH TO INVERT | 1.480 | 1.482 / 1.521 |
| CO-ORDINATED SETOUT | E321074.103 N6257085.263 | E321077.136 N6257076.848 |
| CHAINAGE | -21.730 | -12.785 |

## LINE A10

| | A10-01 → A01-04 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.93 |
| Q - PIPE FLOW (L/s) | Q=21 |

| DATUM RL 14.0 | A10-01 | A01-04 |
|---|---|---|
| H.G.L. (5%AEP) | 28.010 / 28.007 | 27.907 / 27.907 |
| FINISHED SURFACE | 29.362 | 29.362 |
| NATURAL SURFACE | 29.438 | 29.461 |
| PIPE INVERT LEVEL | 27.881 | 27.811 / 27.662 |
| DEPTH TO INVERT | 1.481 | 1.551 / 1.700 |
| CO-ORDINATED SETOUT | E321050.259 N6257133.523 | E321043.558 N6257131.500 |
| CHAINAGE | 0.000 | 7.000 |

## LINE A11

| | A11-01 → A01-13 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 4.6% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.60 |
| Q - PIPE FLOW (L/s) | Q=12 |

| DATUM RL 8.0 | A11-01 | A01-13 |
|---|---|---|
| H.G.L. (5%AEP) | 22.880 / 22.881 | 22.477 / 22.368 |
| FINISHED SURFACE | 24.285 | 23.904 |
| NATURAL SURFACE | 23.652 | 23.660 |
| PIPE INVERT LEVEL | 22.790 | 22.432 / 21.898 |
| DEPTH TO INVERT | 1.495 | 1.472 / 2.006 |
| CO-ORDINATED SETOUT | E321114.895 N6256919.440 | E321109.148 N6256914.255 |
| CHAINAGE | 0.000 | 7.740 |

## LINE A12

| | A12-01 → A01-20 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 1.2% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.53 |
| Q - PIPE FLOW (L/s) | Q=44 |

| DATUM RL 3.0 | A12-01 | A01-20 |
|---|---|---|
| H.G.L. (5%AEP) | 18.040 / 18.018 | 18.011 / 17.996 |
| FINISHED SURFACE | 19.229 | 19.140 |
| NATURAL SURFACE | 19.810 | 19.186 |
| PIPE INVERT LEVEL | 17.752 | 17.652 / 16.585 |
| DEPTH TO INVERT | 1.477 | 1.488 / 2.555 |
| CO-ORDINATED SETOUT | E321197.417 N6256881.619 | E321204.004 N6256876.234 |
| CHAINAGE | 0.000 | 8.508 |

## LINE A13

| | A13-01 → A13-02 | A13-02 → A13-03 |
|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 0.5% | 0.5% |
| PIPE SIZE (mm) | 450 | 450 |
| MINIMUM COVER (m) | 2.44 | 0.99 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.63 | Vf=1.92 |
| Q - PIPE FLOW (L/s) | Q=260 | Q=260 |

| DATUM RL 3.0 | A13-01 | A13-02 | A13-03 |
|---|---|---|---|
| H.G.L. (5%AEP) | 17.260 / 16.721 | 16.693 16.690 / 16.460 | 16.211 16.210 / 16.211 |
| FINISHED SURFACE | 18.973 | 19.098 | 17.335 |
| NATURAL SURFACE | 19.025 | 19.017 | 18.715 |
| PIPE INVERT LEVEL | 16.037 | 16.020 / 16.000 | 15.853 / 15.853 |
| DEPTH TO INVERT | 2.936 | 3.079 / 3.099 | 1.481 / 1.481 |
| CO-ORDINATED SETOUT | E321229.189 N6256859.625 | E321225.804 N6256859.488 | E321199.442 N6256846.780 |
| CHAINAGE | 0.000 | 3.388 | 32.653 |

**NOT FOR CONSTRUCTION**

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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CLIENT: SEKISUI HOUSE

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SCALE 1:500 @ A1 (0 5 10 15 20 25m)

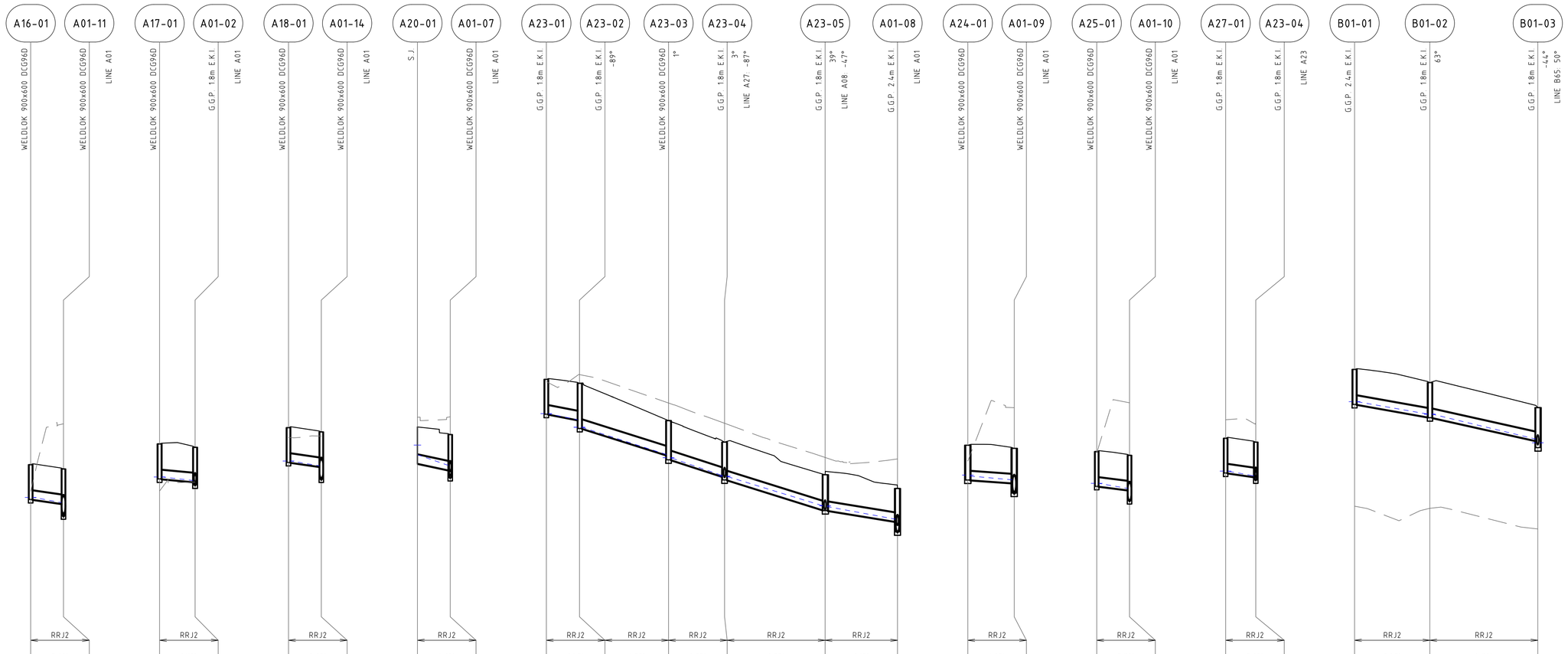
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — STORMWATER LONGITUDINAL SECTIONS SHEET 03

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.13
REVISION: 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C05.11.dwg




| | A16-01 | A01-11 | A17-01 | A01-02 | A18-01 | A01-14 | A20-01 | A01-07 | A23-01 | A23-02 | A23-03 | A23-04 | A23-05 | A01-08 | A24-01 | A01-09 | A25-01 | A01-10 | A27-01 | A23-04 | B01-01 | B01-02 | B01-03 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | | RRJ2 | | RRJ2 | | RRJ2 | | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | | RRJ2 | | RRJ2 | | RRJ2 | | RRJ2 | RRJ2 | |
| PIPE GRADE (%) | 2.6% | | 1.7% | | 2.6% | | 4.1% | | 3.5% | 6.0% | 6.0% | 6.0% | 3.1% | | 1.3% | | 2.3% | | 2.6% | | 3.4% | 4.3% | |
| PIPE SIZE (mm) | 375 | | 375 | | 375 | | 375 | | 375 | 375 | 375 | 375 | 375 | | 375 | | 375 | | 375 | | 375 | 375 | |
| MINIMUM COVER (m) | 1.10 | | 1.10 | | 1.10 | | 1.10 | | 1.10 | 1.10 | 1.10 | 1.10 | 1.13 | | 1.10 | | 1.10 | | 1.10 | | 1.10 | 1.10 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.38 | | Vf=1.10 | | Vf=0.97 | | Vf=3.41 | | Vf=0.74 | Vf=1.35 | Vf=1.81 | Vf=0.84 | Vf=2.14 | | Vf=1.53 | | Vf=1.50 | | Vf=1.21 | | Vf=0.55 | Vf=1.91 | |
| Q - PIPE FLOW (L/s) | Q=12 | | Q=12 | | Q=6 | | Q=212 | | Q=1 | Q=5 | Q=13 | Q=34 | Q=54 | | Q=55 | | Q=22 | | Q=10 | | Q=16 | Q=29 | |
| DATUM RL | 13.0 | | 16.0 | | 7.0 | | 13.0 | | 15.0 | | | | | | 13.0 | | 13.0 | | 15.0 | | 17.0 | | |
| H.G.L. (5%AEP) | 26.090 | 26.094 | 29.960 | 29.962 | 21.640 | 21.643 | 28.320 | 27.910 | 31.660 | 31.656 | 31.401<br>31.080 | 31.083 | 29.919<br>29.780 | 29.777 | 29.071<br>28.990 | 28.987 | 27.730<br>27.730 | 27.698 | 27.162 | 27.083 | 27.040 | 27.001 | 26.838 | 26.739 | 29.210 | 29.208 | 29.010 | 28.987 | 34.170 | 34.172 | 33.641<br>33.640 | 33.641 | 32.576<br>32.420 | |
| FINISHED SURFACE | 27.484 | | 31.370 | | 23.063 | | 29.093 | | 33.122 | | 32.953 | | 31.364 | | 30.445 | | 29.056 | | 28.771 | | 28.315 | | 28.181 | | 30.611 | | 30.445 | | 35.544 | | 34.982 | | 33.918 | |
| NATURAL SURFACE | 26.351 | | 29.362 | | 22.645 | | 29.508 | | 33.020 | | 33.324 | | 32.113 | | 31.250 | | 29.793 | | 28.730 | | 27.638 | | 29.915 | | 31.400 | | 31.250 | | 29.714 | | 29.626 | | 28.745 | |
| PIPE INVERT LEVEL | 26.003 | 25.820 | 29.878 | 29.750 | 21.582 | 21.399 | 27.535 | 27.250 | 31.636 | 31.389 | 31.031 | 29.891 | 29.693 | 28.976 | 28.837 | 27.550 | 27.530 | 27.058 | 26.623 | | 26.831 | 26.703 | 26.274 | | 29.129 | 28.963 | 28.837 | | 34.054 | | 33.509<br>33.489 | | 32.503 | |
| DEPTH TO INVERT | 1.481 | 1.481 | 1.492 | 1.474 | 1.481 | 1.481 | 1.557 | 1.517 | 1.486 | 1.564<br>1.922 | 1.472 | 1.671 | 1.469 | 1.608 | | 1.506 | 1.526 | 1.413 | 1.848 | | 1.484 | 1.478 | 1.907 | | 1.481 | 1.481 | 1.608 | | 1.490 | | 1.473<br>1.493 | | 1.415 | |
| CO-ORDINATED SETOUT | E321097.695<br>N6256976.408 | E321090.994<br>N6256974.385 | E321065.540<br>N6257163.326 | E321060.740<br>N6257169.189 | E321120.783<br>N6256899.937 | E321114.082<br>N6256897.914 | E321049.381<br>N6257087.993 | E321056.082<br>N6257090.017 | E320997.986<br>N6257061.115 | E321000.245<br>N6257054.413 | E321018.385<br>N6257060.063 | E321029.863<br>N6257063.391 | E321050.736<br>N6257068.294 | E321064.660<br>N6257061.608 | E321077.717<br>N6257047.580 | E321073.039<br>N6257033.855 | E321088.343<br>N6257007.382 | E321081.642<br>N6257005.359 | E321028.064<br>N6257069.563 | E321029.863<br>N6257063.391 | E321114.064<br>N6257232.083 | E321129.827<br>N6257229.024 | E321136.293<br>N6257206.921 | |
| CHAINAGE | 0.000 | 7.000 | 0.000 | 7.577 | 0.000 | 7.000 | 0.000 | 7.000 | -25.400 | -18.328 | 0.672 | 12.622 | 34.063 | 49.509 | 0.000 | 9.899 | 0.000 | 7.000 | 0.000 | 6.429 | 0.000 | 16.057 | 39.086 | |
| | LINE A16 | | LINE A17 | | LINE A18 | | LINE A20 | | LINE A23 | | | | | | LINE A24 | | LINE A25 | | LINE A27 | | LINE B01 | | |

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

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|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
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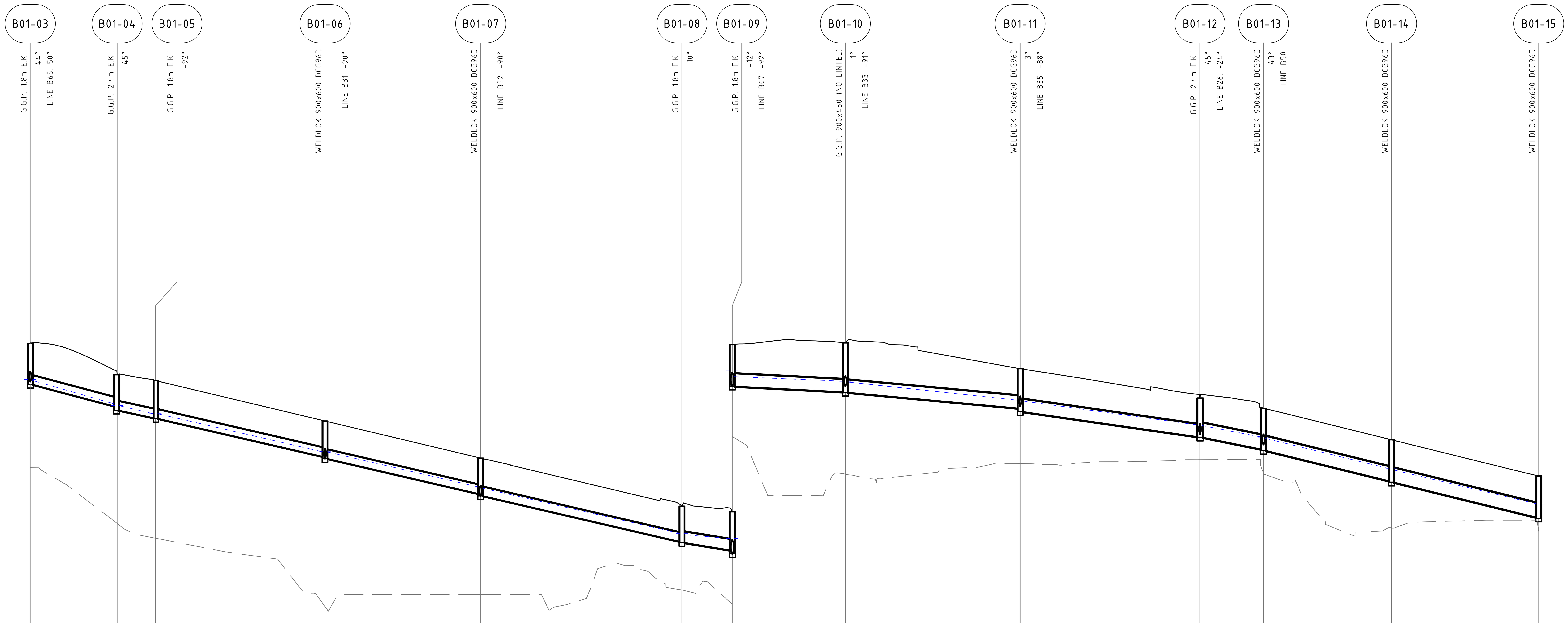
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 04

JOB NUMBER 150077-60
DRAWING NUMBER C05.14
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 8:00:07 AM | Melrose Park Infrastructure DA - 2021\10-Drawings\C-Civil\150077-60 CAD\STORM\150077_60_C05.14.dwg




| | B01-03 to B01-04 | B01-04 to B01-05 | B01-05 to B01-06 | B01-06 to B01-07 | B01-07 to B01-08 | B01-08 to B01-09 | B01-09 to B01-10 | B01-10 to B01-11 | B01-11 to B01-12 | B01-12 to B01-13 | B01-13 to B01-14 | B01-14 to B01-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 5.0% | 4.0% | 4.5% | 4.5% | 4.5% | 3.0% | 1.0% | 1.8% | 2.8% | 3.7% | 4.8% | 4.8% |
| PIPE SIZE (mm) | 375 | 375 | 375 | 375 | 375 | 450 | 525 | 525 | 525 | 600 | 600 | 600 |
| MINIMUM COVER (m) | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.19 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=2.69 | Vf=1.31 | Vf=1.40 | Vf=1.65 | Vf=2.01 | Vf=1.76 | Vf=2.00 | Vf=2.93 | Vf=2.38 | Vf=2.28 | Vf=2.42 | Vf=2.54 |
| Q - PIPE FLOW (L/s) | Q=54 | Q=68 | Q=83 | Q=146 | Q=203 | Q=218 | Q=358 | Q=423 | Q=468 | Q=564 | Q=614 | Q=654 |

DATUM RL 14.0 (at B01-03); 7.0 (at B01-09)

| | B01-03 | B01-04 | B01-05 | B01-06 | B01-07 | B01-08 | B01-09 | B01-10 | B01-11 | B01-12 | B01-13 | B01-14 | B01-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 32.576 32.420 32.382 | 31.393 31.330 31.322 | 30.991 30.990 30.991 | 29.395 29.400 29.394 | 27.927 27.930 27.873 | 25.989 25.990 25.928 | 25.780 25.780 25.541 | 25.350 25.350 25.317 | 24.554 24.520 24.524 | 23.521 23.520 23.495 | 23.014 23.010 22.955 | 21.693 21.690 21.638 | 20.224 20.220 |
| FINISHED SURFACE | 33.918 | 32.619 | 32.375 | 30.686 | 29.135 | 27.127 | 26.890 | 26.952 | 25.871 | 24.649 | 24.216 | 22.900 | 21.390 |
| NATURAL SURFACE | 28.745 | 26.406 | 25.785 | 22.926 | 23.430 | 23.622 | 23.040 | 21.464 | 21.904 | 22.070 | 21.509 | 19.213 | 19.067 |
| PIPE INVERT LEVEL | 32.503 32.213 | 31.304 31.133 | 30.812 30.792 | 29.197 29.114 | 27.646 27.556 | 25.644 25.603 | 25.288 25.138 | 24.901 24.881 | 24.222 24.077 | 23.025 23.005 | 22.507 22.451 | 21.178 21.125 | 19.657 |
| DEPTH TO INVERT | 1.415 1.705 | 1.315 1.486 | 1.563 1.583 | 1.489 1.571 | 1.489 1.579 | 1.483 1.524 | 1.602 1.752 | 2.051 2.071 | 1.650 1.794 | 1.625 1.645 | 1.709 1.765 | 1.722 1.775 | 1.733 |
| CO-ORDINATED SETOUT | E321136.293 N6257206.921 | E321152.014 N6257197.794 | E321154.053 N6257190.050 | E321187.998 N6257200.298 | E321219.150 N6257209.703 | E321259.455 N6257221.842 | E321269.878 N6257223.138 | E321292.219 N6257230.926 | E321326.971 N6257242.257 | E321363.339 N6257251.802 | E321374.851 N6257245.143 | E321382.589 N6257219.515 | E321391.481 N6257190.064 |
| CHAINAGE | 39.086 | 57.263 | 65.272 | 100.731 | 133.271 | 175.365 | 185.868 | 209.527 | 246.080 | 283.680 | 296.980 | 323.750 | 354.514 |

LINE B01

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

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Level 11 345 George Street, Sydney NSW 2000
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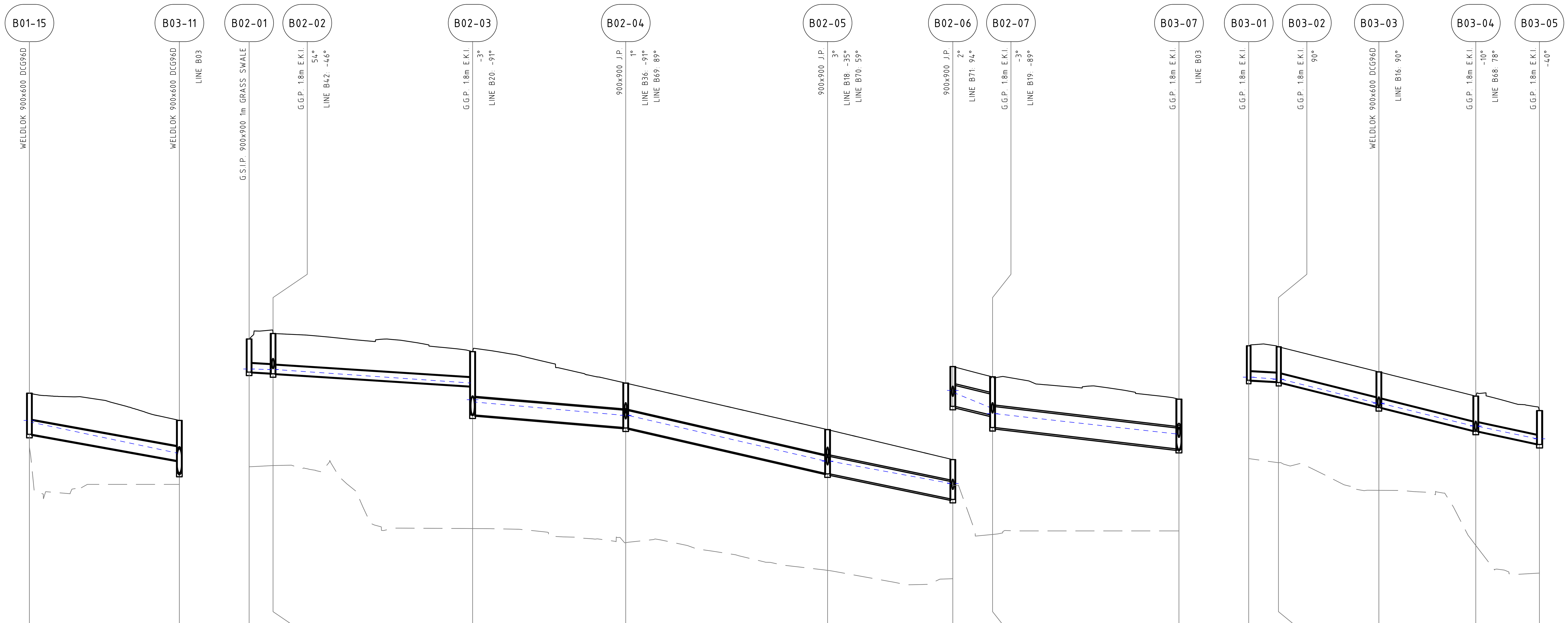
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 05

JOB NUMBER 150077-60
DRAWING NUMBER C05.15
REVISION 07
DRAWING SHEET SIZE = A1




## LINE B01

| | B01-15 → B03-11 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 3.5% |
| PIPE SIZE (mm) | 600 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=4.29 |
| Q - PIPE FLOW (L/s) | Q=671 |

DATUM RL 4.0

| | B01-15 | B03-11 |
|---|---|---|
| H.G.L. (5%AEP) | 20.224 / 20.220 / 20.139 | 18.816 / 18.741 |
| FINISHED SURFACE | 21.390 | 20.220 |
| NATURAL SURFACE | 19.067 | 17.470 |
| PIPE INVERT LEVEL | 19.657 / 19.622 | 18.491 / 17.947 |
| DEPTH TO INVERT | 1.733 / 1.768 | 1.728 / 2.273 |
| CO-ORDINATED SETOUT | E321391.481 N6257190.064 | E321400.798 N6257159.203 |
| CHAINAGE | 354.514 | 386.751 |

## LINE B02

| | B02-01 → B02-02 | B02-02 → B02-03 | B02-03 → B02-04 | B02-04 → B02-05 | B02-05 → B02-06 | B02-06 → B02-07 | B02-07 → B03-07 |
|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ4 | RRJ4 | RRJ2 |
| PIPE GRADE (%) | 1.0% | 1.3% | 1.6% | 4.5% | 4.0% | 4.3% | 2.3% |
| PIPE SIZE (mm) | 375 | 375 | 750 | 750 | 750 | 900 | 900 |
| MINIMUM COVER (m) | 1.10 | 1.10 | 1.13 | 1.10 | 0.90 | 0.65 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.32 | Vf=1.51 | Vf=2.48 | Vf=2.62 | Vf=2.68 | Vf=4.78 | Vf=2.31 |
| Q - PIPE FLOW (L/s) | Q=11 | Q=56 | Q=816 | Q=873 | Q=930 | Q=947 | Q=1034 |

DATUM RL 10.0 (B02-01); 6.0 (B02-06)

| | B02-01 | B02-02 | B02-03 | B02-04 | B02-05 | B02-06 | B02-07 | B03-07 |
|---|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 28.430 / 28.429 | 28.407 / 28.410 / 28.407 | 27.827 / 27.110 / 27.010 | 26.439 / 26.440 / 26.439 | 24.472 / 24.470 / 24.472 | 23.511 / 23.510 / 23.396 | 22.769 / 22.510 / 22.511 | 21.636 / 21.588 |
| FINISHED SURFACE | 29.720 | 29.954 | 29.176 | 27.824 | 25.824 | 24.535 | 24.094 | 23.132 |
| NATURAL SURFACE | 24.228 | 24.280 | 21.573 | 20.966 | 19.773 | 19.417 | 17.319 | 17.470 |
| PIPE INVERT LEVEL | 28.297 | 28.246 / 28.226 | 27.689 / 26.453 | 25.915 / 25.895 | 23.942 / 23.922 | 22.845 / 22.825 | 22.455 / 21.914 | 20.995 / 20.975 |
| DEPTH TO INVERT | 1.423 | 1.709 / 1.729 | 1.487 / 2.723 | 1.909 / 1.929 | 1.881 / 1.901 | 1.690 / 1.710 | 1.639 / 2.179 | 2.138 / 2.158 |
| CO-ORDINATED SETOUT | E321131.442 N6257089.691 | E321133.232 N6257094.513 | E321174.549 N6257106.098 | E321205.649 N6257116.890 | E321246.896 N6257130.376 | E321272.945 N6257137.208 | E321281.273 N6257139.123 | E321319.856 N6257149.947 |
| CHAINAGE | 0.000 | 5.143 | 48.054 | 80.973 | 124.369 | 151.299 | 159.845 | 199.917 |

## LINE B03

| | B03-01 → B03-02 | B03-02 → B03-03 | B03-03 → B03-04 | B03-04 → B03-05 |
|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 1.0% | 4.8% | 4.8% | 4.0% |
| PIPE SIZE (mm) | 375 | 375 | 375 | 375 |
| MINIMUM COVER (m) | 1.10 | 1.10 | 1.10 | 1.11 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.75 | Vf=0.95 | Vf=0.98 | Vf=1.31 |
| Q - PIPE FLOW (L/s) | Q=21 | Q=37 | Q=51 | Q=84 |

DATUM RL 7.0

| | B03-01 | B03-02 | B03-03 | B03-04 | B03-05 |
|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 25.080 / 25.080 | 24.995 / 24.990 / 24.995 | 23.961 / 23.960 / 23.953 | 22.977 / 22.980 / 22.967 | 22.429 / 22.430 |
| FINISHED SURFACE | 26.426 | 26.384 | 25.304 | 24.263 | 23.641 |
| NATURAL SURFACE | 21.578 | 21.401 | 20.215 | 17.847 | 16.659 |
| PIPE INVERT LEVEL | 24.945 | 24.881 / 24.851 | 23.817 / 23.772 | 22.775 / 22.755 | 22.207 |
| DEPTH TO INVERT | 1.481 | 1.503 / 1.533 | 1.488 / 1.533 | 1.488 / 1.508 | 1.434 |
| CO-ORDINATED SETOUT | E321281.325 N6257214.643 | E321287.452 N6257216.493 | E321293.691 N6257195.827 | E321299.714 N6257175.879 | E321305.787 N6257163.622 |
| CHAINAGE | 0.000 | 6.400 | 27.987 | 48.825 | 62.504 |

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DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 06

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.16
REVISION: 07
DRAWING SHEET SIZE = A1

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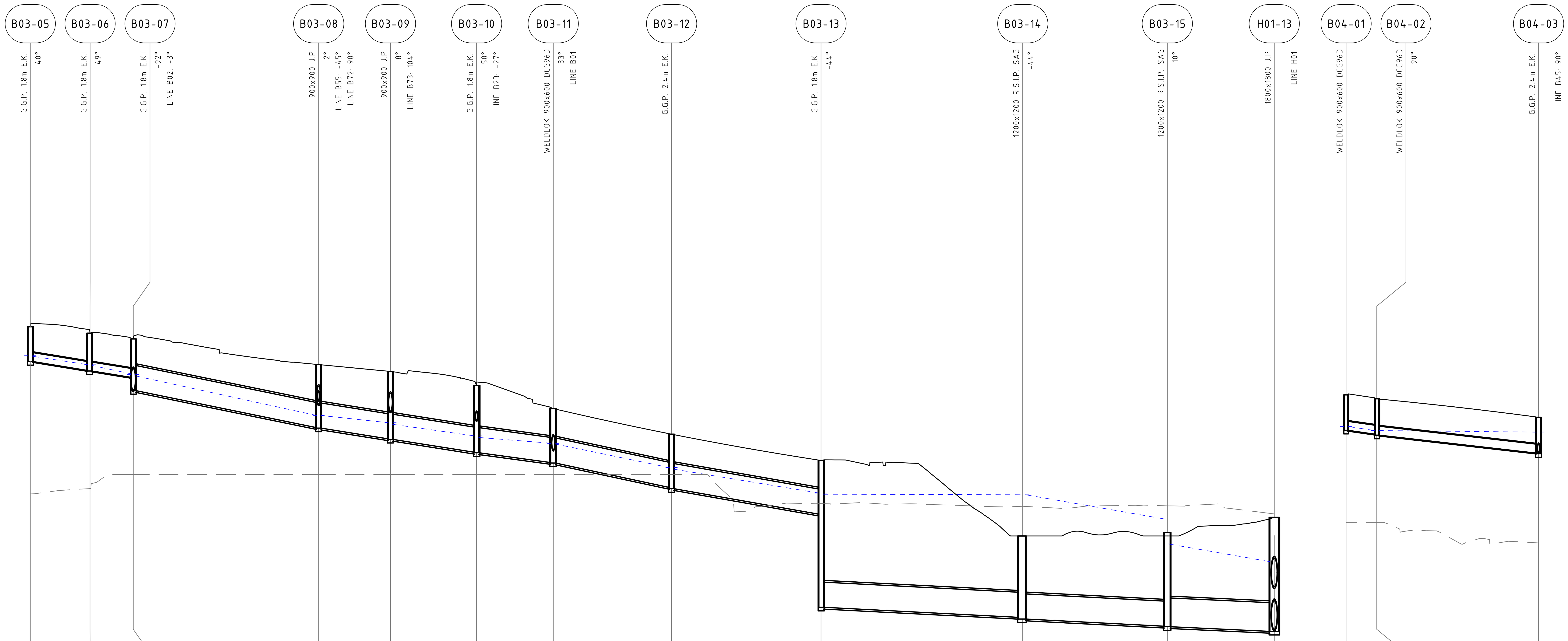


## LINE B03

| | B03-05 to B03-06 | B03-06 to B03-07 | B03-07 to B03-08 | B03-08 to B03-09 | B03-09 to B03-10 | B03-10 to B03-11 | B03-11 to B03-12 | B03-12 to B03-13 | B03-13 to B03-14 | B03-14 to B03-15 | B03-15 to H01-13 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 3.0% | 3.0% | 4.0% | 3.0% | 3.0% | 2.6% | 4.1% | 3.4% | 1.0% | 1.0% | 0.9% |
| PIPE SIZE (mm) | 375 | 375 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1200 |
| MINIMUM COVER (m) | 1.18 | 1.20 | 1.16 | 1.52 | 1.70 | 1.17 | 1.10 | 1.10 | 2.26 | 2.34 | 2.51 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.35 | Vf=2.44 | Vf=2.84 | Vf=2.73 | Vf=2.29 | Vf=2.32 | Vf=2.80 | Vf=2.86 | Vf=2.41 | Vf=2.25 | Vf=1.82 |
| Q - PIPE FLOW (L/s) | Q=92 | Q=100 | Q=1182 | Q=1191 | Q=1240 | Q=1284 | Q=1968 | Q=2065 | Q=2083 | Q=2024 | Q=2059 |

DATUM RL 3.0

| | B03-05 | B03-06 | B03-07 | B03-08 | B03-09 | B03-10 | B03-11 | B03-12 | B03-13 | B03-14 | B03-15 | H01-13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 22.429 22.430 / 22.408 | 22.054 22.050 / 22.022 | 21.671 21.640 / 21.588 | 19.935 19.940 / 19.935 | 19.631 19.630 / 19.564 | 19.082 19.080 / 19.015 | 18.774 18.770 / 18.741 | 17.756 17.760 / 17.691 | 16.694 16.690 / 16.644 | 16.623 16.620 / 16.623 | 15.610 | 13.796 |
| FINISHED SURFACE | 23.641 | 23.372 | 23.132 | 22.060 | 21.773 | 21.188 | 20.220 | 19.153 | 18.055 | 14.900 | 14.900 | 15.679 |
| NATURAL SURFACE | 16.659 | 16.880 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 17.470 | 16.251 | 16.141 | 16.158 | 15.821 |
| PIPE INVERT LEVEL | 22.207 / 22.187 | 21.812 / 21.792 | 21.522 / 20.975 | 19.426 / 19.406 | 18.956 / 18.936 | 18.396 / 18.376 | 17.967 / 17.947 | 16.926 / 16.877 | 15.810 / 11.921 | 11.500 / 11.431 | 11.129 / 11.109 | 10.915 10.915 / 10.998 |
| DEPTH TO INVERT | 1.434 / 1.454 | 1.560 / 1.580 | 1.611 / 2.158 | 2.635 / 2.655 | 2.817 / 2.837 | 2.792 / 2.812 | 2.253 / 2.273 | 2.227 / 2.276 | 2.244 / 6.134 | 3.400 / 3.469 | 3.771 / 3.791 | 4.764 / 4.681 |
| CO-ORDINATED SETOUT | E321305.787 N6257163.622 | E321317.194 N6257158.568 | E321319.856 N6257149.947 | E321356.507 N6257162.437 | E321370.867 N6257166.772 | E321388.617 N6257169.608 | E321400.798 N6257159.203 | E321407.938 N6257135.554 | E321416.959 N6257105.675 | E321453.568 N6257084.853 | E321482.879 N6257092.132 | E321505.161 N6257093.703 |
| CHAINAGE | 62.504 | 74.980 | 84.003 | 122.723 | 137.723 | 155.698 | 171.718 | 196.422 | 227.633 | 269.749 | 299.951 | 322.288 |

## LINE B04

| | B04-01 to B04-02 | B04-02 to B04-03 |
|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 2.6% | 2.2% |
| PIPE SIZE (mm) | 375 | 375 |
| MINIMUM COVER (m) | 1.10 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.77 | Vf=0.92 |
| Q - PIPE FLOW (L/s) | Q=33 | Q=53 |

DATUM RL 5.0

| | B04-01 | B04-02 | B04-03 |
|---|---|---|---|
| H.G.L. (5%AEP) | 21.470 / 21.471 | 21.305 21.310 / 21.304 | 21.239 21.240 |
| FINISHED SURFACE | 22.796 | 22.631 | 21.858 |
| NATURAL SURFACE | 17.470 | 17.470 | 16.609 |
| PIPE INVERT LEVEL | 21.315 | 21.150 / 21.112 | 20.360 |
| DEPTH TO INVERT | 1.481 | 1.481 / 1.519 | 1.498 |
| CO-ORDINATED SETOUT | E321313.136 N6257109.281 | E321319.263 N6257111.131 | E321329.028 N6257078.785 |
| CHAINAGE | 0.000 | 6.400 | 40.187 |

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 07

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.17
REVISION: 07
DRAWING SHEET SIZE = A1

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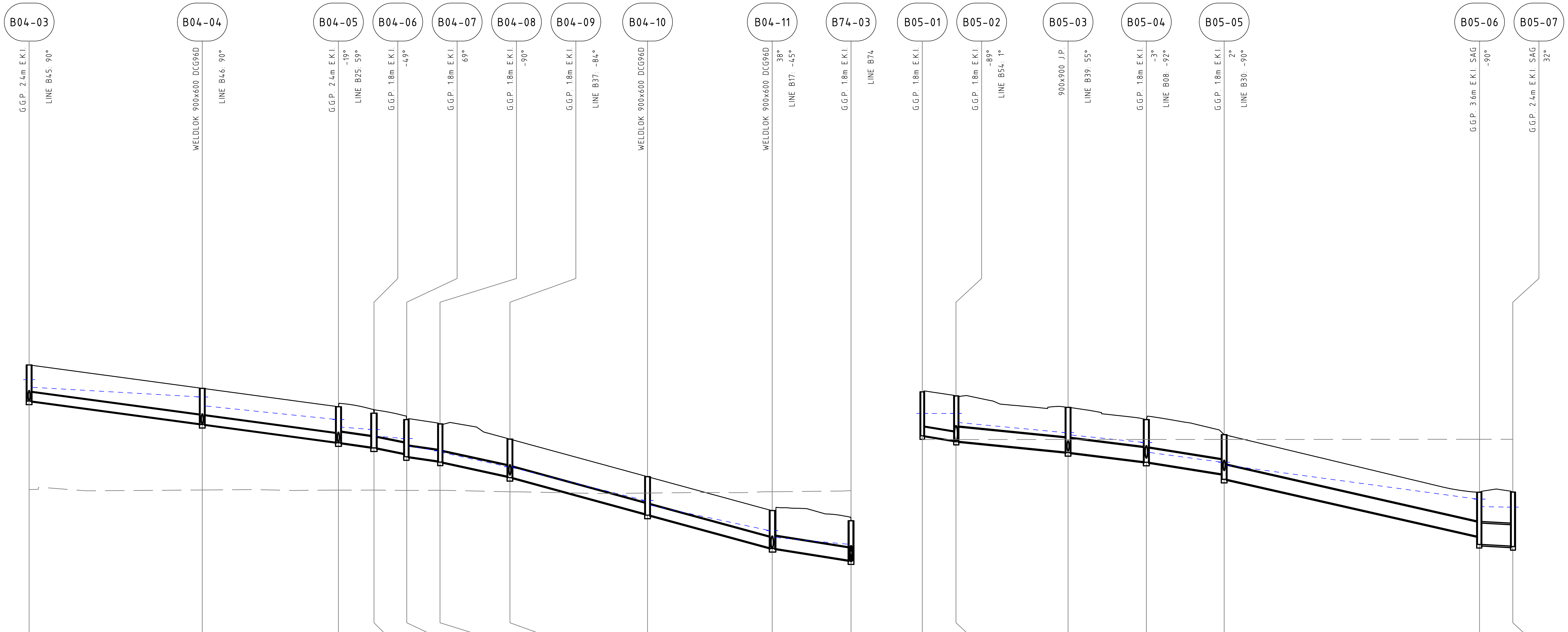


## LINE B04

| | B04-03 – B04-04 | B04-04 – B04-05 | B04-05 – B04-06 | B04-06 – B04-07 | B04-07 – B04-08 | B04-08 – B04-09 | B04-09 – B04-10 | B04-10 – B04-11 | B04-11 – B74-03 |
|---|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 2.6% | 2.6% | 2.5% | 3.5% | 2.6% | 4.1% | 5.3% | 5.3% | 3.0% |
| PIPE SIZE (mm) | 375 | 375 | 450 | 450 | 450 | 450 | 450 | 450 | 525 |
| MINIMUM COVER (m) | 1.10 | 1.10 | 1.11 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.03 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.68 | Vf=2.25 | Vf=2.15 | Vf=2.23 | Vf=2.32 | Vf=2.48 | Vf=2.83 | Vf=2.84 | Vf=2.67 |
| Q - PIPE FLOW (L/s) | Q=186 | Q=248 | Q=341 | Q=354 | Q=361 | Q=373 | Q=438 | Q=441 | Q=544 |

DATUM RL 3.0

| | B04-03 | B04-04 | B04-05 | B04-06 | B04-07 | B04-08 | B04-09 | B04-10 | B04-11 | B74-03 |
|---|---|---|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 21.239 21.240 / 20.919 | 20.512 20.510 / 20.135 | 19.562 19.560 / 19.243 | 19.138 19.140 / 18.862 | 18.756 18.760 / 18.442 | 18.236 18.240 / 18.171 | 17.569 17.570 / 17.539 | 16.146 16.150 / 15.955 | 14.878 14.880 / 14.596 | 14.304 / 14.127 |
| FINISHED SURFACE | 21.858 | 20.873 | 20.099 | 19.828 | 19.556 | 19.373 | 18.734 | 17.152 | 15.725 | 15.296 |
| NATURAL SURFACE | 16.609 | 16.592 | 16.588 | 16.588 | 16.573 | 16.580 | 16.517 | 16.463 | 16.517 | 16.564 |
| PIPE INVERT LEVEL | 20.360 / 20.336 | 19.375 / 19.351 | 18.601 / 18.581 | 18.394 / 18.365 | 18.125 / 17.993 | 17.810 / 17.768 | 17.166 / 17.117 | 15.584 / 15.532 | 14.152 / 14.128 | 13.630 / 13.610 |
| DEPTH TO INVERT | 1.498 / 1.522 | 1.498 / 1.522 | 1.498 / 1.518 | 1.434 / 1.463 | 1.431 / 1.563 | 1.563 / 1.606 | 1.567 / 1.617 | 1.567 / 1.619 | 1.573 / 1.597 | 1.666 / 1.686 |
| CO-ORDINATED SETOUT | E321329.028 N6257078.785 | E321339.567 N6257043.879 | E321347.854 N6257016.431 | E321352.261 N6257010.379 | E321359.142 N6257009.835 | E321361.165 N6257003.134 | E321375.269 N6257007.392 | E321403.012 N6257015.768 | E321428.140 N6257023.355 | E321443.625 N6257017.352 |
| CHAINAGE | 40.187 | 76.650 | 105.321 | 112.808 | 119.711 | 126.711 | 141.443 | 170.423 | 196.671 | 213.279 |

## LINE B05

| | B05-01 – B05-02 | B05-02 – B05-03 | B05-03 – B05-04 | B05-04 – B05-05 | B05-05 – B05-06 | B05-06 – B05-07 |
|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 3.0% | 1.9% | 2.4% | 3.0% | 4.5% | 1.0% |
| PIPE SIZE (mm) | 375 | 600 | 600 | 600 | 600 | 900 |
| MINIMUM COVER (m) | 1.47 | 1.10 | 1.15 | 1.10 | 1.10 | 1.26 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.11 | Vf=2.93 | Vf=3.01 | Vf=3.51 | Vf=3.63 | Vf=1.69 |
| Q - PIPE FLOW (L/s) | Q=12 | Q=827 | Q=850 | Q=992 | Q=1026 | Q=1075 |

DATUM RL 1.0

| | B05-01 | B05-02 | B05-03 | B05-04 | B05-05 | B05-06 | B05-07 |
|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 17.820 / 17.816 | 17.816 17.820 / 17.435 | 17.005 17.010 / 16.912 | 16.594 16.590 / 16.178 | 15.761 15.760 / 15.639 | 14.209 14.210 / 13.891 | 13.868 13.870 |
| FINISHED SURFACE | 18.725 | 18.555 | 18.071 | 17.557 | 16.923 | 14.498 | 14.503 |
| NATURAL SURFACE | 16.717 | 16.718 | 16.720 | 16.720 | 16.720 | 16.728 | 16.727 |
| PIPE INVERT LEVEL | 16.875 | 16.662 / 16.642 | 16.188 / 16.168 | 15.781 / 15.761 | 15.266 / 15.042 | 12.641 / 12.299 | 12.229 |
| DEPTH TO INVERT | 1.849 | 1.893 / 1.913 | 1.883 / 1.903 | 1.777 / 1.797 | 1.657 / 1.880 | 1.857 / 2.199 | 2.275 |
| CO-ORDINATED SETOUT | E321345.560 N6256926.346 | E321347.608 N6256919.551 | E321370.286 N6256926.104 | E321386.143 N6256930.620 | E321401.634 N6256935.964 | E321453.122 N6256951.509 | E321451.043 N6256958.193 |
| CHAINAGE | 0.000 | 7.097 | 30.703 | 47.191 | 63.578 | 117.360 | 124.361 |

VERIFIER: -
JOB MANAGER: P.SUTTON
DESIGNED: A.RIVETT
DRAWN: B.MAZZA

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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 08

JOB NUMBER 150077-60
DRAWING NUMBER C05.18
REVISION 07
DRAWING SHEET SIZE = A1

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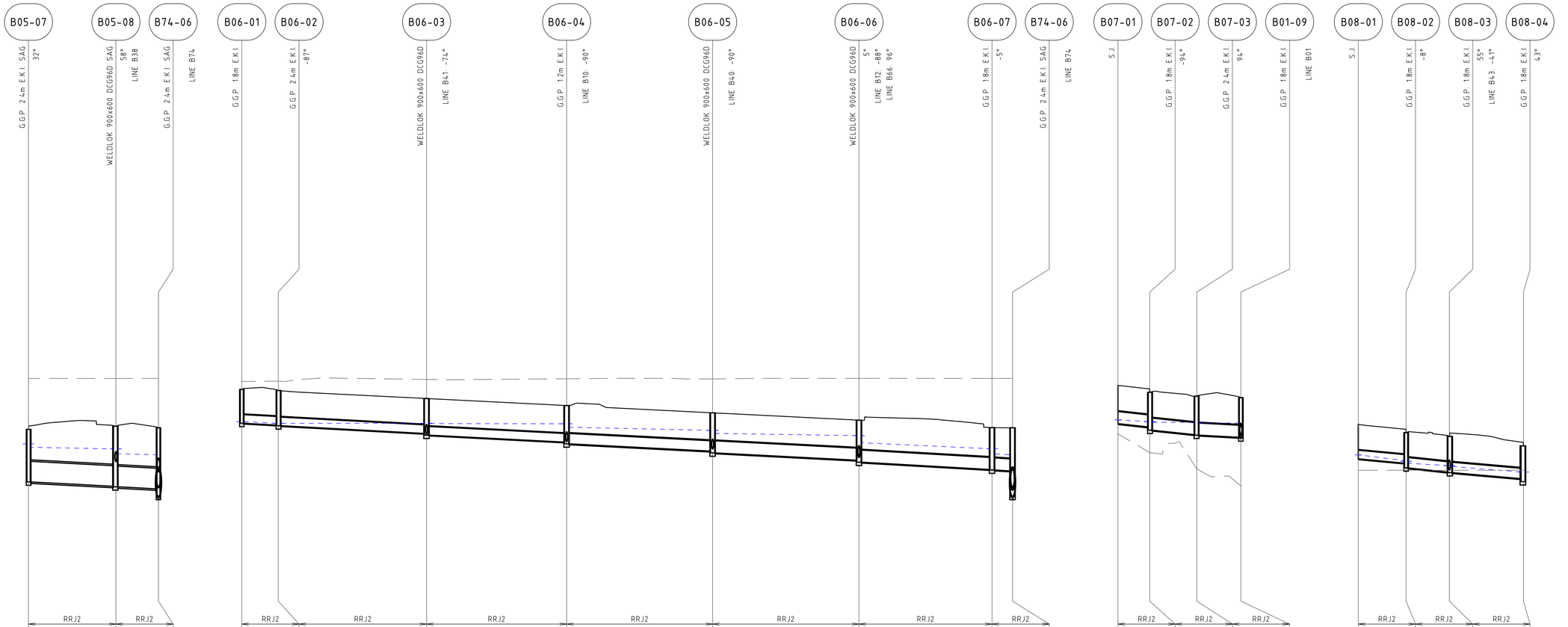


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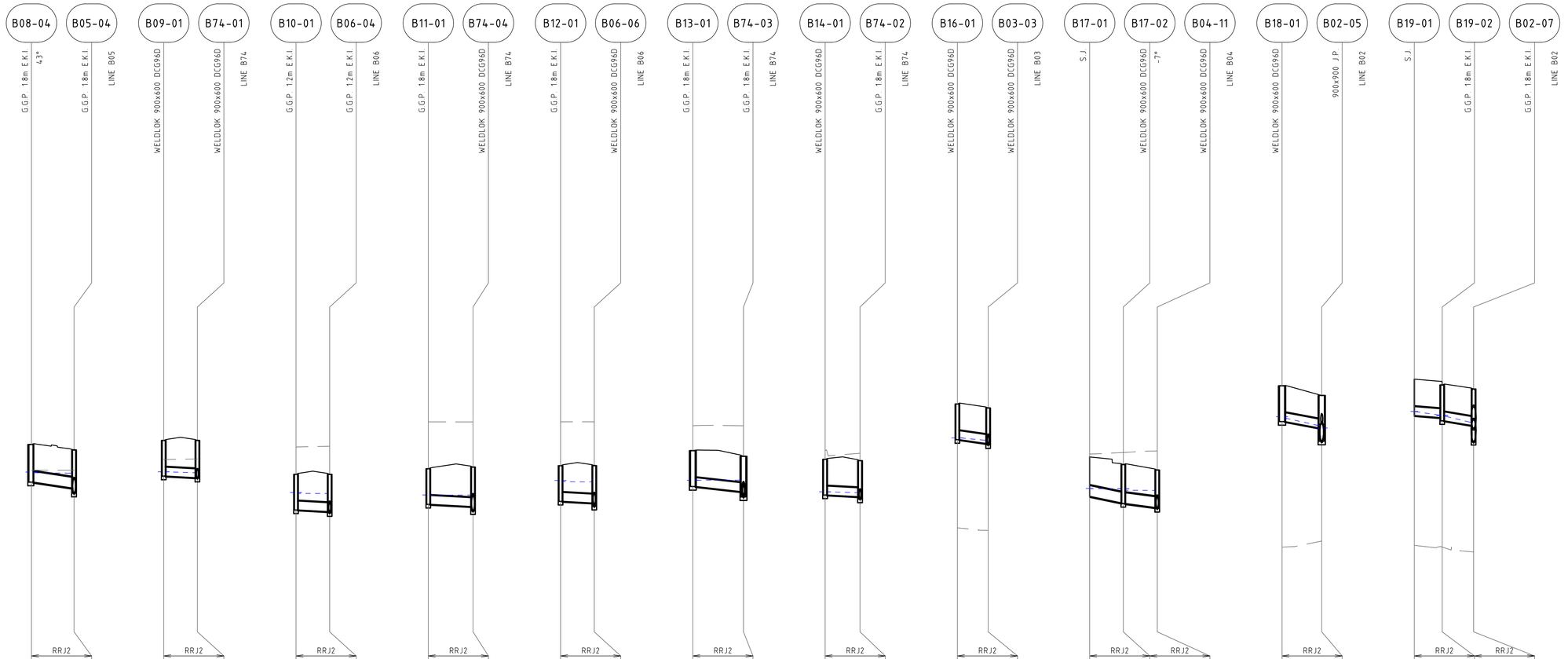
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 09

JOB NUMBER 150077-60
DRAWING NUMBER C05.19
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:00:17 AM - By: Andrew Rivett - Melrose Park Infrastructure DA - 150710-Drawings\Civil\150077-60 CAD\DA\DA150077-60_C05.19.dwg




LINE B08 LINE B09 LINE B10 LINE B11 LINE B12 LINE B13 LINE B14 LINE B16 LINE B17 LINE B18 LINE B19

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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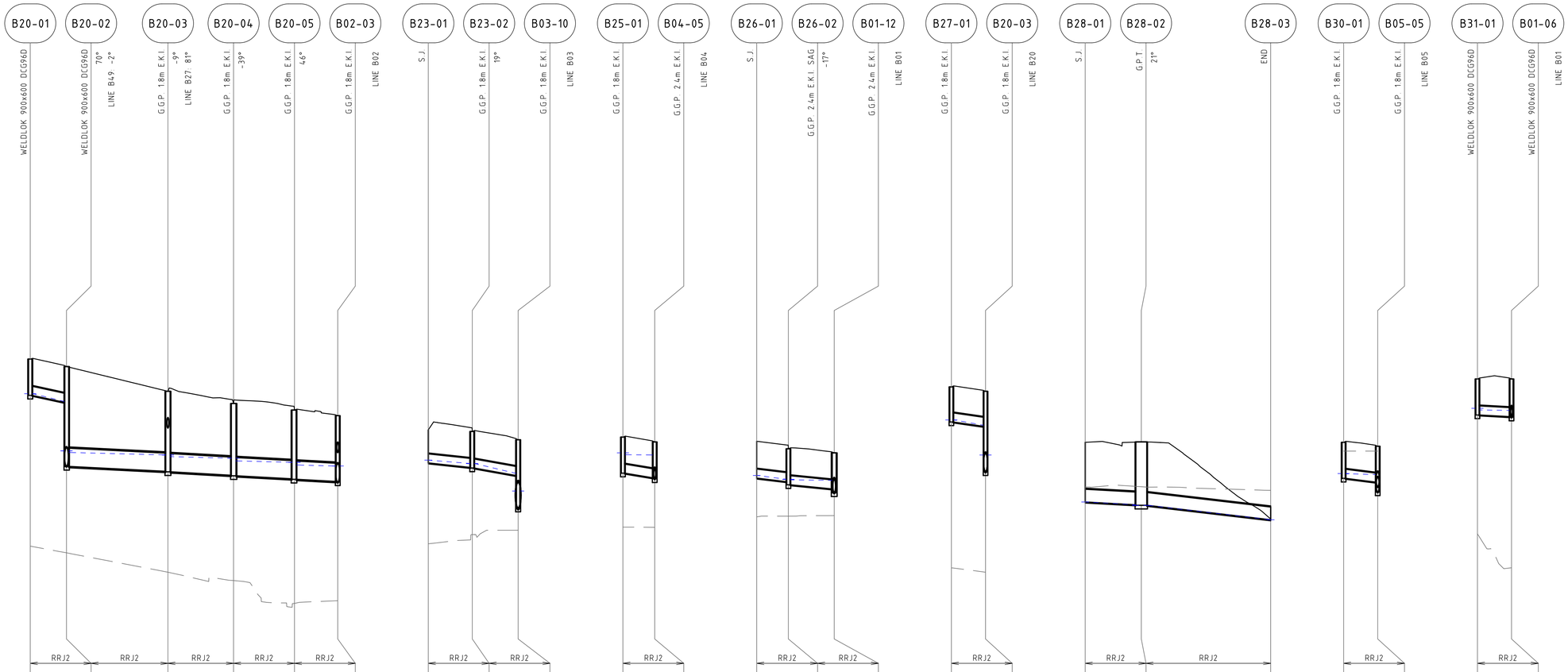
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 10

JOB NUMBER 150077-60
DRAWING NUMBER C05.20
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:08:07 AM - By: Andrew Rivett - Melrose Park Infrastructure DA - 150710-Drawings\Civil\150077-60 CAD\Plan\150077-60_C05.11.dwg

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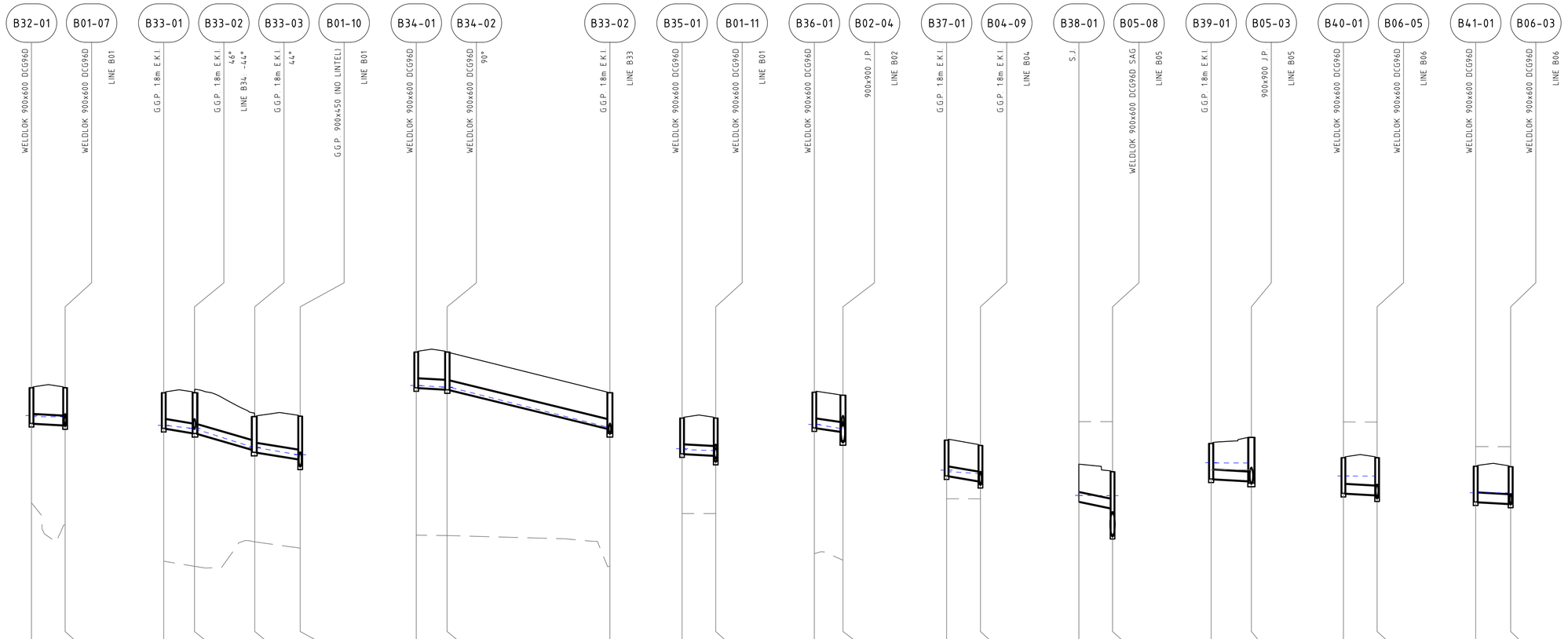
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 11

JOB NUMBER 150077-60
DRAWING NUMBER C05.21
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 9:00:17 AM | Melrose Park Infrastructure DA - 2021\10-Drawings\C-Civil\150077-60 CAD\STORM\150077_60_C05.21.dwg

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JOB MANAGER: P.SUTTON
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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 12

JOB NUMBER 150077-60
DRAWING NUMBER C05.22
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 7:50:37 AM | By: Belinda Park Infrastructure DA - 150770-Drawings\Civil\150077-60 CAD\Plan\150077-60_C05.11.dwg

## LINE B42

| | B42-01 → B42-02 | B42-02 → B02-02 |
|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 4.4% | 1.8% |
| PIPE SIZE (mm) | 375 | 375 |
| MINIMUM COVER (m) | 1.10 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.70 | Vf=1.61 |
| Q - PIPE FLOW (L/s) | Q=24 | Q=42 |

| DATUM RL 13.0 | B42-01 | B42-02 | B02-02 |
|---|---|---|---|
| H.G.L. (5%AEP) | 29.040 / 29.039 | 28.813 / 28.810 / 28.813 | 28.584 / 28.407 |
| FINISHED SURFACE | 30.472 | 30.179 | 29.954 |
| NATURAL SURFACE | 24.371 | 24.316 | 24.280 |
| PIPE INVERT LEVEL | 28.908 | 28.654 / 28.634 | 28.476 / 28.226 |
| DEPTH TO INVERT | 1.564 | 1.524 / 1.544 | 1.479 / 1.729 |
| CO-ORDINATED SETOUT | E321124.033 N6257104.522 | E321125.710 N6257098.970 | E321133.232 N6257094.513 |
| CHAINAGE | 0.000 | 5.800 | 14.543 |

## LINE B43

| | B43-01 → B43-02 | B43-02 → B08-03 |
|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 1.0% | 2.0% |
| PIPE SIZE (mm) | 375 | 375 |
| MINIMUM COVER (m) | 1.10 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.25 | Vf=0.94 |
| Q - PIPE FLOW (L/s) | Q=32 | Q=42 |

| DATUM RL 3.0 | B43-01 | B43-02 | B08-03 |
|---|---|---|---|
| H.G.L. (5%AEP) | 17.740 / 17.737 | 17.616 / 17.600 / 17.603 | 16.925 / 16.920 / 16.888 |
| FINISHED SURFACE | 19.219 | 19.054 | 18.199 |
| NATURAL SURFACE | 16.594 | 16.597 | 16.718 |
| PIPE INVERT LEVEL | 17.573 | 17.509 / 17.443 | 16.759 / 16.618 |
| DEPTH TO INVERT | 1.646 | 1.545 / 1.611 | 1.439 / 1.581 |
| CO-ORDINATED SETOUT | E321352.905 N6256977.557 | E321359.032 N6256979.407 | E321369.653 N6256947.322 |
| CHAINAGE | 0.000 | 6.400 | 40.197 |

## LINE B45

| | B45-01 → B04-03 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 2.6% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.61 |
| Q - PIPE FLOW (L/s) | Q=68 |

| DATUM RL 5.0 | B45-01 | B04-03 |
|---|---|---|
| H.G.L. (5%AEP) | 21.330 / 21.249 | 21.239 / 20.919 |
| FINISHED SURFACE | 22.023 | 21.858 |
| NATURAL SURFACE | 16.556 | 16.609 |
| PIPE INVERT LEVEL | 20.542 | 20.377 / 20.336 |
| DEPTH TO INVERT | 1.481 | 1.481 / 1.522 |
| CO-ORDINATED SETOUT | E321322.901 N6257076.935 | E321329.028 N6257078.785 |
| CHAINAGE | 0.000 | 6.400 |

## LINE B46

| | B46-01 → B04-04 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 2.6% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.32 |
| Q - PIPE FLOW (L/s) | Q=36 |

| DATUM RL 4.0 | B46-01 | B04-04 |
|---|---|---|
| H.G.L. (5%AEP) | 20.530 / 20.515 | 20.512 / 20.135 |
| FINISHED SURFACE | 21.038 | 20.873 |
| NATURAL SURFACE | 16.593 | 16.592 |
| PIPE INVERT LEVEL | 19.557 | 19.392 / 19.351 |
| DEPTH TO INVERT | 1.481 | 1.481 / 1.522 |
| CO-ORDINATED SETOUT | E321333.440 N6257042.029 | E321339.567 N6257043.879 |
| CHAINAGE | 0.000 | 6.400 |

## LINE B47

| | B47-01 → B47-02 | B47-02 → B47-03 | B47-03 → B47-04 | B47-04 → B47-05 | B47-05 → B74-07 |
|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ4 | RRJ4 | RRJ4 | RRJ2 |
| PIPE GRADE (%) | 1.0% | 1.0% | 1.0% | 1.0% | 1.0% |
| PIPE SIZE (mm) | 450 | 450 | 450 | 450 | 450 |
| MINIMUM COVER (m) | 0.70 | 0.89 | 1.08 | 1.26 | 1.48 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.35 | Vf=0.73 | Vf=1.16 | Vf=1.19 | Vf=1.33 |
| Q - PIPE FLOW (L/s) | Q=56 | Q=116 | Q=184 | Q=190 | Q=211 |

| DATUM RL -1.0 | B47-01 | B47-02 | B47-03 | B47-04 | B47-05 | B74-07 |
|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 13.940 / 13.909 | 13.903 / 13.900 / 13.801 | 13.779 / 13.780 / 13.683 | 13.627 / 13.630 / 13.364 | 13.303 / 12.992 | 12.858 / 12.626 |
| FINISHED SURFACE | 14.380 | 14.381 | 14.382 | 14.380 | 14.384 | 14.906 |
| NATURAL SURFACE | 16.729 | 16.723 | 16.462 | 16.594 | 15.129 | 13.357 |
| PIPE INVERT LEVEL | 13.189 | 13.024 / 13.004 | 12.834 / 12.814 | 12.650 / 12.630 | 12.468 / 12.448 | 12.150 / 10.581 |
| DEPTH TO INVERT | 1.191 | 1.357 / 1.377 | 1.548 / 1.568 | 1.730 / 1.750 | 1.915 / 1.935 | 2.756 / 4.325 |
| CO-ORDINATED SETOUT | E321471.911 N6256991.131 | E321487.707 N6256995.900 | E321503.982 N6257000.813 | E321519.658 N6257005.546 | E321535.131 N6257010.218 | E321525.794 N6257038.590 |
| CHAINAGE | -16.500 | 0.000 | 17.000 | 33.375 | 49.538 | 79.407 |

## LINE B49

| | B49-01 → B49-02 | B49-02 → B49-03 |
|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 5.0% | 5.0% |
| PIPE SIZE (mm) | 600 | 600 |
| MINIMUM COVER (m) | 0.60 | 0.62 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.89 | Vf=2.40 |
| Q - PIPE FLOW (L/s) | Q=354 | Q=331 |

| DATUM RL 16.0 | B49-01 | B49-02 | B49-03 |
|---|---|---|---|
| H.G.L. (5%AEP) | 32.100 / 32.097 | 30.787 / 30.790 / 30.763 | 29.716 / 29.720 |
| FINISHED SURFACE | 33.742 | 31.675 | 30.801 |
| NATURAL SURFACE | 33.742 | 31.675 | 30.805 |
| PIPE INVERT LEVEL | 31.717 | 30.409 / 30.389 | 29.422 |
| DEPTH TO INVERT | 2.024 | 1.266 / 1.286 | 1.379 |
| CO-ORDINATED SETOUT | E321039.750 N6257170.791 | E321064.905 N6257178.018 | E321083.411 N6257183.607 |
| CHAINAGE | -31.564 | -5.391 | 13.941 |

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| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — STORMWATER LONGITUDINAL SECTIONS SHEET 13

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.23
REVISION: 07
DRAWING SHEET SIZE = A1

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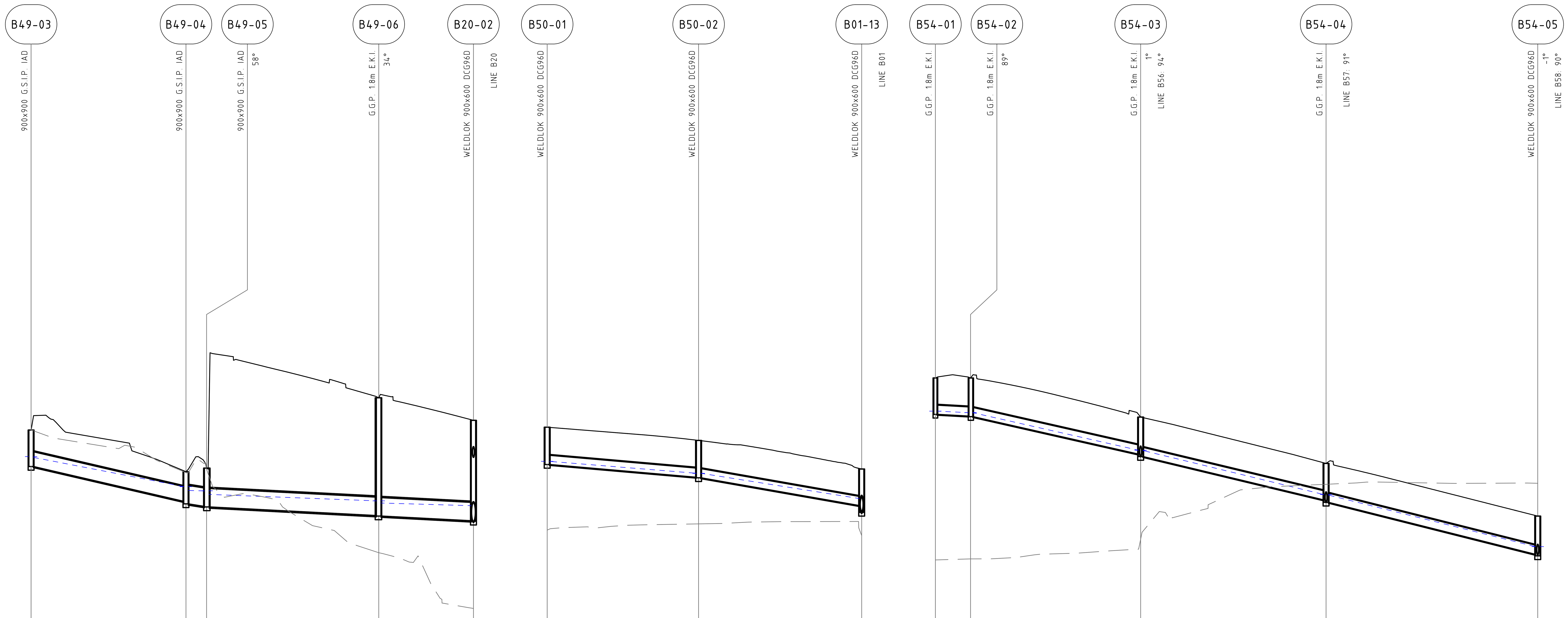


## LINE B49

| Pipe | PIPE CLASS | PIPE GRADE (%) | PIPE SIZE (mm) | MINIMUM COVER (m) | Vf - FULL PIPE VELOCITY (m/s) | Q - PIPE FLOW (L/s) |
|---|---|---|---|---|---|---|
| B49-03 to B49-04 | RRJ2 | 4.5% | 600 | 0.60 | Vf=1.78 | Q=328 |
| B49-04 to B49-05 | RRJ2 | 2.5% | 750 | 0.60 | Vf=1.85 | Q=636 |
| B49-05 to B49-06 | RRJ2 | 1.0% | 750 | 3.40 | Vf=2.15 | Q=690 |
| B49-06 to B20-02 | RRJ2 | 1.0% | 750 | 3.31 | Vf=2.08 | Q=695 |

DATUM RL 14.0

| | B49-03 | B49-04 | B49-05 | B49-06 | B20-02 |
|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 29.716 29.720 / 29.690 | 28.503 28.500 / 28.342 | 28.326 28.330 / 28.184 | 27.920 27.920 / 27.833 | 27.725 / 27.665 |
| FINISHED SURFACE | 30.801 | 29.107 | 29.254 | 32.114 | 31.196 |
| NATURAL SURFACE | 30.805 | 29.069 | 29.204 | 25.812 | 23.544 |
| PIPE INVERT LEVEL | 29.422 / 29.318 | 27.900 / 27.798 | 27.693 / 27.673 | 27.323 / 27.303 | 27.110 / 27.090 |
| DEPTH TO INVERT | 1.379 / 1.483 | 1.206 / 1.308 | 1.561 / 1.581 | 4.791 / 4.811 | 4.086 / 4.106 |
| CO-ORDINATED SETOUT | E321083.411 N6257183.607 | E321113.572 N6257192.713 | E321117.586 N6257193.933 | E321143.821 N6257170.728 | E321148.598 N6257152.062 |
| CHAINAGE | 13.941 | 45.446 | 49.641 | 84.667 | 103.935 |

## LINE B50

| Pipe | PIPE CLASS | PIPE GRADE (%) | PIPE SIZE (mm) | MINIMUM COVER (m) | Vf - FULL PIPE VELOCITY (m/s) | Q - PIPE FLOW (L/s) |
|---|---|---|---|---|---|---|
| B50-01 to B50-02 | RRJ2 | 1.7% | 375 | 1.10 | Vf=0.53 | Q=18 |
| B50-02 to B01-13 | RRJ2 | 3.4% | 375 | 1.10 | Vf=0.59 | Q=32 |

DATUM RL 9.0

| | B50-01 | B50-02 | B01-13 |
|---|---|---|---|
| H.G.L. (5%AEP) | 24.530 / 24.527 | 24.043 24.040 / 24.043 | 23.014 / 22.955 |
| FINISHED SURFACE | 25.916 | 25.379 | 24.216 |
| NATURAL SURFACE | 21.731 | 21.985 | 21.509 |
| PIPE INVERT LEVEL | 24.399 | 23.880 / 23.858 | 22.727 / 22.451 |
| DEPTH TO INVERT | 1.517 | 1.499 / 1.521 | 1.489 / 1.765 |
| CO-ORDINATED SETOUT | E321356.360 N6257306.389 | E321365.263 N6257276.902 | E321374.851 N6257245.143 |
| CHAINAGE | 0.000 | 30.801 | 63.977 |

## LINE B54

| Pipe | PIPE CLASS | PIPE GRADE (%) | PIPE SIZE (mm) | MINIMUM COVER (m) | Vf - FULL PIPE VELOCITY (m/s) | Q - PIPE FLOW (L/s) |
|---|---|---|---|---|---|---|
| B54-01 to B54-02 | RRJ2 | 1.0% | 375 | 1.10 | Vf=0.50 | Q=17 |
| B54-02 to B54-03 | RRJ2 | 4.4% | 375 | 1.13 | Vf=0.99 | Q=44 |
| B54-03 to B54-04 | RRJ2 | 4.7% | 375 | 1.10 | Vf=1.67 | Q=113 |
| B54-04 to B54-05 | RRJ2 | 4.9% | 375 | 1.16 | Vf=1.74 | Q=162 |

DATUM RL 10.0

| | B54-01 | B54-02 | B54-03 | B54-04 | B54-05 |
|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 27.570 / 27.570 | 27.507 27.510 / 27.507 | 25.980 25.980 / 25.969 | 24.177 24.180 / 24.158 | 22.059 22.060 |
| FINISHED SURFACE | 28.920 | 28.918 | 27.328 | 25.443 | 23.301 |
| NATURAL SURFACE | 21.517 | 21.560 | 22.360 | 24.595 | 24.635 |
| PIPE INVERT LEVEL | 27.438 | 27.367 / 27.347 | 25.821 / 25.723 | 23.957 / 23.862 | 21.743 |
| DEPTH TO INVERT | 1.481 | 1.551 / 1.571 | 1.507 / 1.605 | 1.486 / 1.581 | 1.558 |
| CO-ORDINATED SETOUT | E321162.581 N6257081.496 | E321169.440 N6257083.518 | E321179.722 N6257050.479 | E321190.574 N6257014.349 | E321202.655 N6256973.017 |
| CHAINAGE | 0.000 | 7.151 | 41.752 | 79.477 | 122.538 |

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| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — STORMWATER LONGITUDINAL SECTIONS SHEET 14

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.24
REVISION: 07
DRAWING SHEET SIZE = A1

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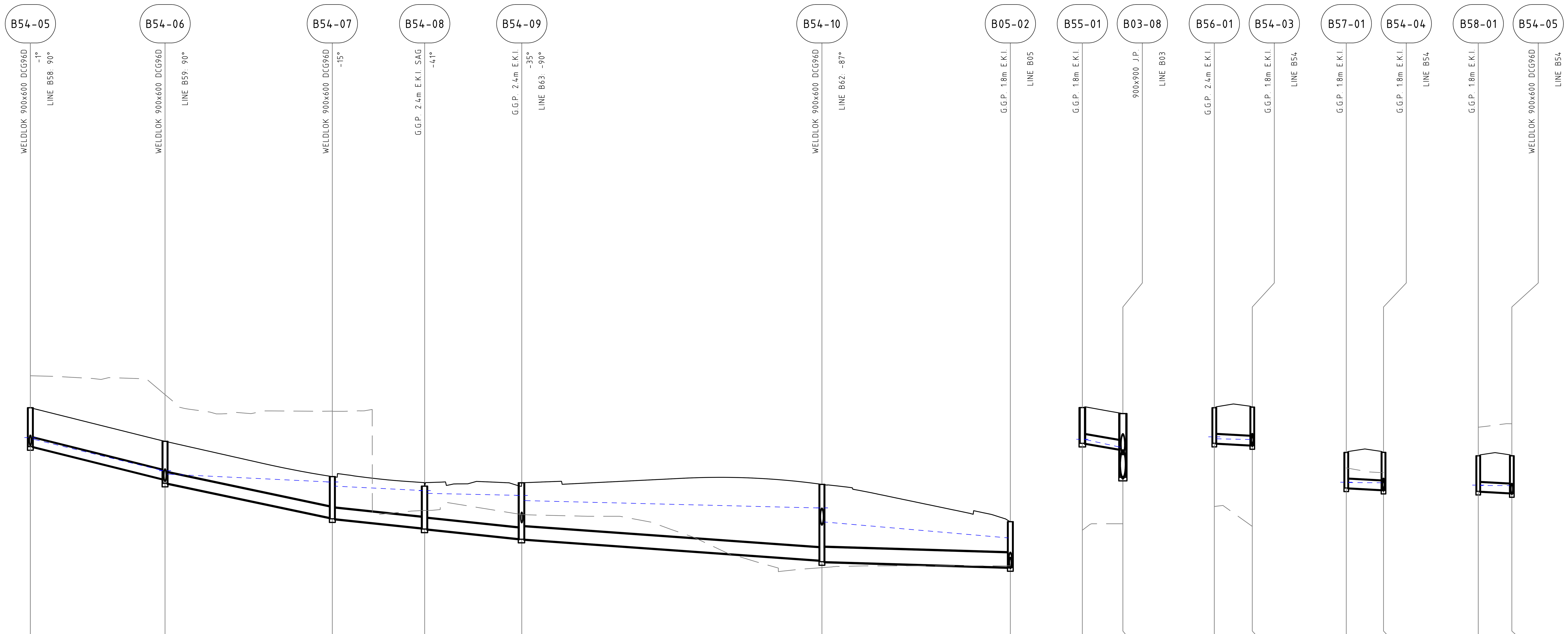


## LINE B54

| | B54-05 to B54-06 | B54-06 to B54-07 | B54-07 to B54-08 | B54-08 to B54-09 | B54-09 to B54-10 | B54-10 to B05-02 |
|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 4.8% | 4.1% | 2.0% | 2.0% | 1.4% | 0.6% |
| PIPE SIZE (mm) | 375 | 450 | 450 | 450 | 525 | 600 |
| MINIMUM COVER (m) | 1.10 | 1.10 | 1.15 | 1.29 | 1.67 | 1.29 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.95 | Vf=2.12 | Vf=1.94 | Vf=1.42 | Vf=1.56 | Vf=2.92 |
| Q - PIPE FLOW (L/s) | Q=194 | Q=304 | Q=308 | Q=308 | Q=338 | Q=825 |

DATUM RL 6.0

| | B54-05 | B54-06 | B54-07 | B54-08 | B54-09 | B54-10 | B05-02 |
|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 22.059 / 22.060 / 22.000 | 20.683 / 20.680 / 20.537 | 20.209 / 20.210 / 20.037 | 19.854 / 19.850 / 19.736 | 19.652 / 19.650 / 19.434 | 19.126 / 19.130 / 18.544 | 17.880 / 17.496 |
| FINISHED SURFACE | 23.301 | 21.904 | 20.434 | 20.037 | 20.177 | 20.110 | 18.555 |
| NATURAL SURFACE | 24.635 | 23.849 | 23.162 | 19.023 | 18.852 | 16.640 | 16.718 |
| PIPE INVERT LEVEL | 21.743 / 21.683 | 20.329 / 20.157 | 18.721 / 18.676 | 18.291 / 18.249 | 17.845 / 17.825 | 16.949 / 16.890 | 16.660 / 16.642 |
| DEPTH TO INVERT | 1.558 / 1.618 | 1.575 / 1.747 | 1.713 / 1.758 | 1.746 / 1.788 | 2.332 / 2.352 | 3.161 / 3.220 | 1.895 / 1.913 |
| CO-ORDINATED SETOUT | E321202.655 N6256973.017 | E321210.766 N6256946.150 | E321220.841 N6256912.781 | E321230.858 N6256896.349 | E321250.126 N6256890.179 | E321309.991 N6256908.295 | E321347.608 N6256919.551 |
| CHAINAGE | 122.538 | 150.603 | 185.459 | 204.704 | 224.936 | 287.483 | 326.747 |

## LINE B55

| | B55-01 to B03-08 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 3.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.75 |
| Q - PIPE FLOW (L/s) | Q=35 |

DATUM RL 5.0

| | B55-01 | B03-08 |
|---|---|---|
| H.G.L. (5%AEP) | 20.990 / 20.985 | 20.655 / 19.935 |
| FINISHED SURFACE | 22.309 | 22.060 |
| NATURAL SURFACE | 17.200 | 17.470 |
| PIPE INVERT LEVEL | 20.820 | 20.566 / 19.406 |
| DEPTH TO INVERT | 1.488 | 1.494 / 2.655 |
| CO-ORDINATED SETOUT | E321349.043 N6257166.398 | E321356.507 N6257162.437 |
| CHAINAGE | 0.000 | 8.450 |

## LINE B56

| | B56-01 to B54-03 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.03 |
| Q - PIPE FLOW (L/s) | Q=57 |

DATUM RL 10.0

| | B56-01 | B54-03 |
|---|---|---|
| H.G.L. (5%AEP) | 26.090 / 26.009 | 25.980 / 25.968 |
| FINISHED SURFACE | 27.302 | 27.328 |
| NATURAL SURFACE | 23.189 | 22.360 |
| PIPE INVERT LEVEL | 25.822 | 25.743 / 25.723 |
| DEPTH TO INVERT | 1.480 | 1.585 / 1.605 |
| CO-ORDINATED SETOUT | E321172.300 N6257047.726 | E321179.722 N6257050.479 |
| CHAINAGE | 0.000 | 7.916 |

## LINE B57

| | B57-01 to B54-04 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.36 |
| Q - PIPE FLOW (L/s) | Q=25 |

DATUM RL 10.0

| | B57-01 | B54-04 |
|---|---|---|
| H.G.L. (5%AEP) | 24.200 / 24.185 | 24.177 / 24.151 |
| FINISHED SURFACE | 25.441 | 25.443 |
| NATURAL SURFACE | 24.794 | 24.595 |
| PIPE INVERT LEVEL | 23.960 | 23.882 / 23.862 |
| DEPTH TO INVERT | 1.481 | 1.561 / 1.581 |
| CO-ORDINATED SETOUT | E321183.161 N6257012.057 | E321190.574 N6257014.349 |
| CHAINAGE | 0.000 | 7.758 |

## LINE B58

| | B58-01 to B54-05 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.32 |
| Q - PIPE FLOW (L/s) | Q=24 |

DATUM RL 8.0

| | B58-01 | B54-05 |
|---|---|---|
| H.G.L. (5%AEP) | 22.080 / 22.063 | 22.059 / 22.001 |
| FINISHED SURFACE | 23.301 | 23.301 |
| NATURAL SURFACE | 24.491 | 24.635 |
| PIPE INVERT LEVEL | 21.820 | 21.750 / 21.723 |
| DEPTH TO INVERT | 1.481 | 1.551 / 1.578 |
| CO-ORDINATED SETOUT | E321195.954 N6256970.994 | E321202.655 N6256973.017 |
| CHAINAGE | 0.000 | 7.000 |

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| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 15

JOB NUMBER 150077-60
DRAWING NUMBER C05.25
REVISION 07
DRAWING SHEET SIZE = A1

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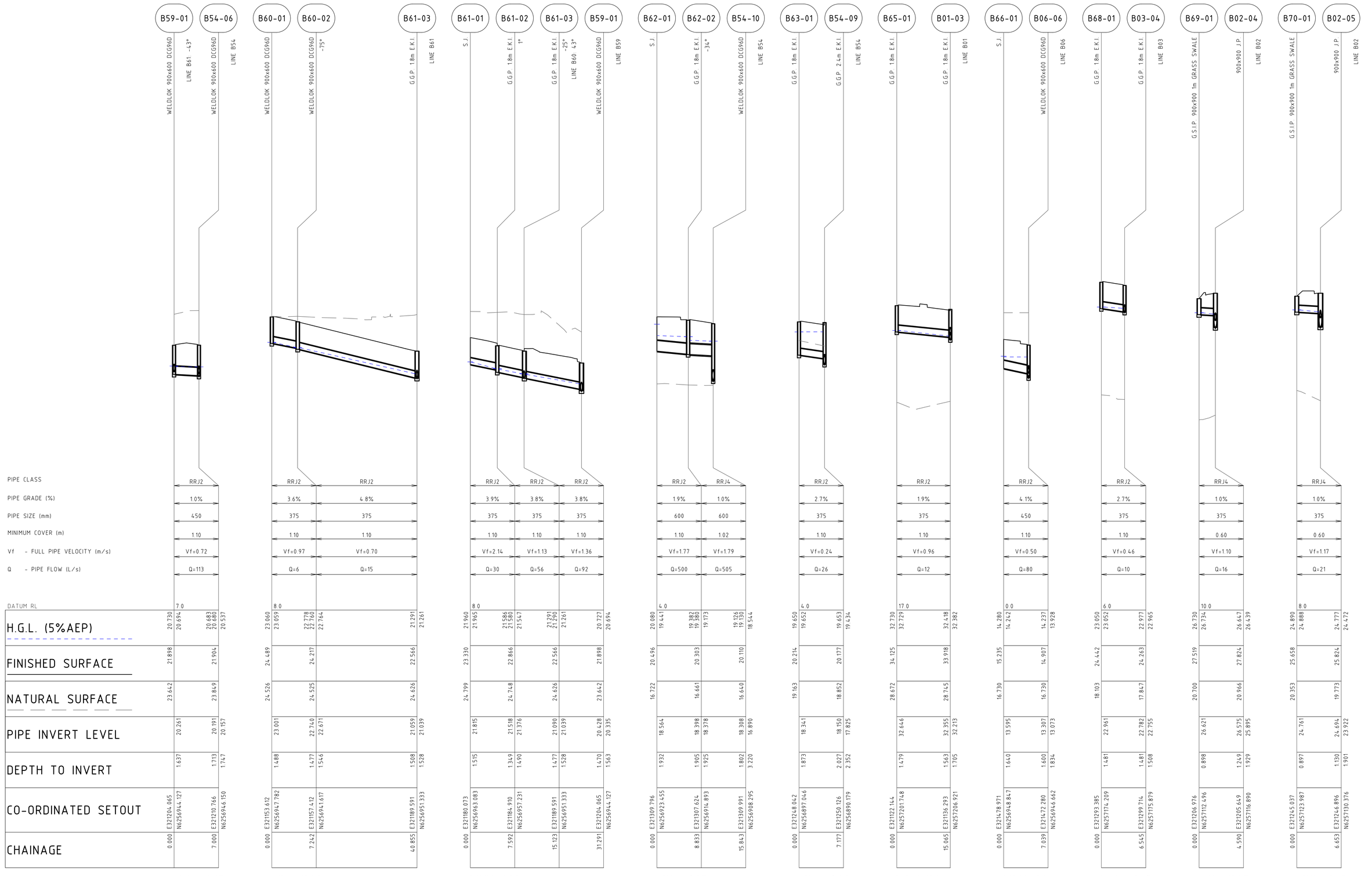


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|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
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| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:500 @ A1 0 5 10 15 20 25m

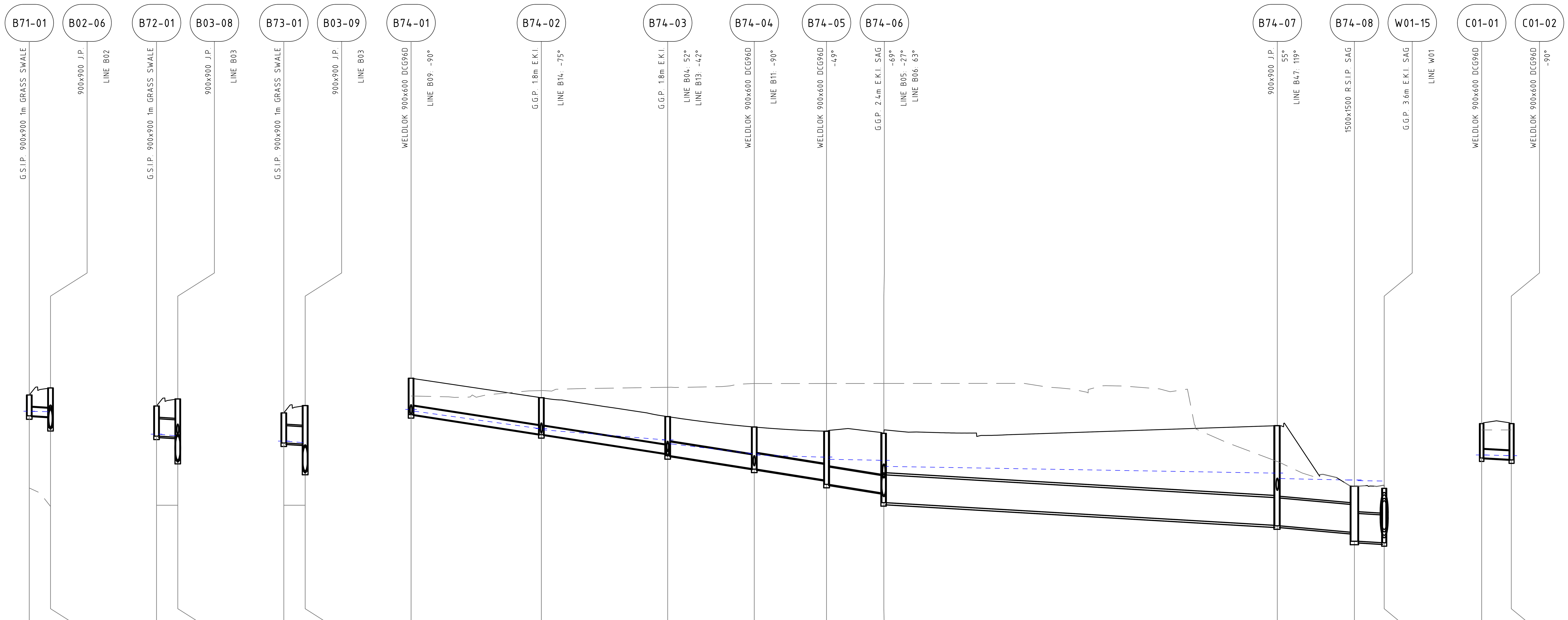
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 16

JOB NUMBER 150077-60
DRAWING NUMBER C05.26
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 9:20PM 6/10/2023 By: Bianca Mazza




## LINE B71

| | B71-01 → B02-06 |
|---|---|
| PIPE CLASS | RRJ4 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 0.60 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.39 |
| Q - PIPE FLOW (L/s) | Q=22 |

| DATUM RL 7.0 | B71-01 | B02-06 |
|---|---|---|
| H.G.L. (5%AEP) | 23.530, 23.523 | 23.511, 23.396 |
| FINISHED SURFACE | 24.229 | 24.535 |
| NATURAL SURFACE | 20.214 | 19.417 |
| PIPE INVERT LEVEL | 23.332 | 23.286, 22.825 |
| DEPTH TO INVERT | 0.898 | 1.249, 1.710 |
| CO-ORDINATED SETOUT | E321274.272 N6257132.814 | E321272.945 N6257137.208 |
| CHAINAGE | 0.000 | 4.590 |

## LINE B72

| | B72-01 → B03-08 |
|---|---|
| PIPE CLASS | RRJ4 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 750 |
| MINIMUM COVER (m) | 0.60 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.84 |
| Q - PIPE FLOW (L/s) | Q=14 |

| DATUM RL 5.0 | B72-01 | B03-08 |
|---|---|---|
| H.G.L. (5%AEP) | 20.540, 20.537 | 20.469, 19.935 |
| FINISHED SURFACE | 21.755 | 22.060 |
| NATURAL SURFACE | 17.470 | 17.470 |
| PIPE INVERT LEVEL | 20.453 | 20.407, 19.406 |
| DEPTH TO INVERT | 1.302 | 1.653, 2.655 |
| CO-ORDINATED SETOUT | E321357.834 N6257158.042 | E321356.507 N6257162.437 |
| CHAINAGE | 0.000 | 4.590 |

## LINE B73

| | B73-01 → B03-09 |
|---|---|
| PIPE CLASS | RRJ4 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 750 |
| MINIMUM COVER (m) | 0.60 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.85 |
| Q - PIPE FLOW (L/s) | Q=14 |

| DATUM RL 5.0 | B73-01 | B03-09 |
|---|---|---|
| H.G.L. (5%AEP) | 20.240, 20.239 | 20.170, 19.565 |
| FINISHED SURFACE | 21.458 | 21.773 |
| NATURAL SURFACE | 17.470 | 17.470 |
| PIPE INVERT LEVEL | 20.156 | 20.110, 18.936 |
| DEPTH TO INVERT | 1.301 | 1.662, 2.837 |
| CO-ORDINATED SETOUT | E321372.656 N6257162.518 | E321370.867 N6257166.772 |
| CHAINAGE | 0.000 | 4.615 |

## LINE B74

| | B74-01 → B74-02 | B74-02 → B74-03 | B74-03 → B74-04 | B74-04 → B74-05 | B74-05 → B74-06 | B74-06 → B74-07 | B74-07 → B74-08 | B74-08 → W01-15 |
|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ4 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 3.0% | 3.0% | 3.0% | 3.0% | 3.0% | 1.2% | 1.7% | 1.0% |
| PIPE SIZE (mm) | 375 | 375 | 600 | 675 | 750 | 1200 | 1200 | 1200 |
| MINIMUM COVER (m) | 1.15 | 1.17 | 1.03 | 1.09 | 1.52 | 1.80 | 0.73 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.07 | Vf=1.29 | Vf=2.59 | Vf=2.10 | Vf=1.64 | Vf=2.06 | Vf=2.24 | Vf=2.14 |
| Q - PIPE FLOW (L/s) | Q=47 | Q=80 | Q=672 | Q=711 | Q=724 | Q=2325 | Q=2528 | Q=2423 |

| DATUM RL -1.0 | B74-01 | B74-02 | B74-03 | B74-04 | B74-05 | B74-06 | B74-07 | B74-08 | W01-15 |
|---|---|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 15.610, 15.539 | 14.781, 14.780, 14.725 | 14.290, 14.290, 14.126 | 13.699, 13.700, 13.633 | 13.545, 13.550, 13.454 | 13.410, 13.410, 13.147 | 12.856, 12.860, 12.622 | 12.556, 12.560, 12.530 | 12.516, 11.924 |
| FINISHED SURFACE | 16.954 | 16.112 | 15.296 | 14.847 | 14.666 | 14.572 | 14.906 | 12.291 | 12.285 |
| NATURAL SURFACE | 16.186 | 16.421 | 16.564 | 16.725 | 16.727 | 16.728 | 13.357 | 12.291 | 12.285 |
| PIPE INVERT LEVEL | 15.382 | 14.538, 14.518 | 13.699, 13.610 | 13.048, 13.028 | 12.560, 12.372 | 12.000, 11.580 | 10.600, 10.581 | 10.303, 9.914 | 9.850, 9.850, 10.166 |
| DEPTH TO INVERT | 1.571 | 1.574, 1.594 | 1.597, 1.686 | 1.799, 1.819 | 2.106, 2.294 | 2.572, 2.992 | 4.306, 4.325 | 1.988, 2.377 | 2.436, 2.120 |
| CO-ORDINATED SETOUT | E321427.598 N6257070.439 | E321435.736 N6257043.482 | E321443.625 N6257017.352 | E321449.033 N6256999.441 | E321453.545 N6256984.495 | E321464.815 N6256979.347 | E321525.794 N6257038.590 | E321542.149 N6257035.395 | E321548.467 N6257034.160 |
| CHAINAGE | 0.000 | 28.159 | 55.453 | 74.163 | 89.775 | 102.165 | 187.184 | 203.849 | 210.286 |

## LINE C01

| | C01-01 → C01-02 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.37 |
| Q - PIPE FLOW (L/s) | Q=12 |

| DATUM RL 1.0 | C01-01 | C01-02 |
|---|---|---|
| H.G.L. (5%AEP) | 15.640, 15.639 | 15.612, 15.610 |
| FINISHED SURFACE | 16.993 | 16.993 |
| NATURAL SURFACE | 16.720 | 16.720 |
| PIPE INVERT LEVEL | 15.511 | 15.447 |
| DEPTH TO INVERT | 1.481 | 1.545 |
| CO-ORDINATED SETOUT | E321383.969 N6256896.814 | E321377.842 N6256894.964 |
| CHAINAGE | 0.000 | 6.400 |

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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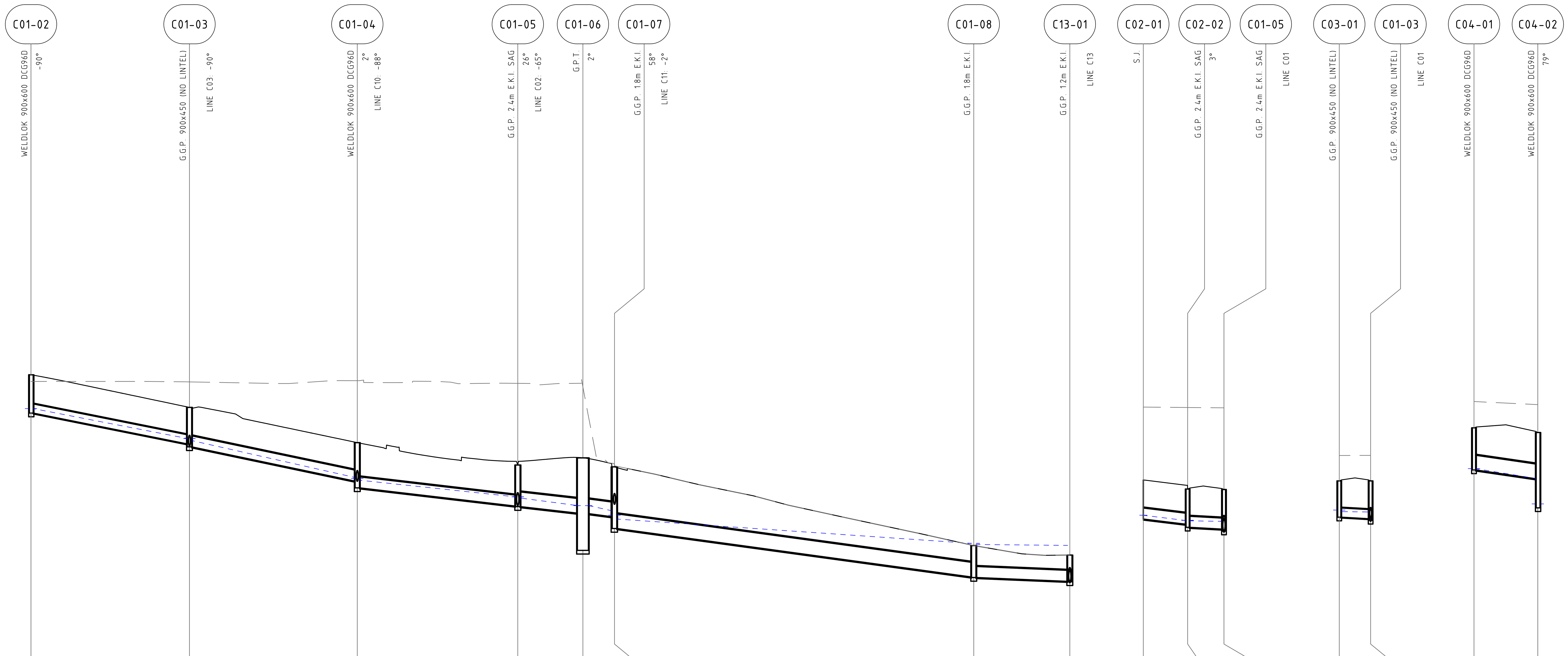
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — STORMWATER LONGITUDINAL SECTIONS SHEET 17

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.27
REVISION: 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C05.11.dwg




## LINE C01

| | C01-02 to C01-03 | C01-03 to C01-04 | C01-04 to C01-05 | C01-05 to C01-06 | C01-06 to C01-07 | C01-07 to C01-08 | C01-08 to C13-01 |
|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 3.9% | 4.1% | 2.3% | 2.0% | 2.0% | 2.7% | 0.8% |
| PIPE SIZE (mm) | 375 | 450 | 450 | 600 | 600 | 600 | (2x)450 |
| MINIMUM COVER (m) | 1.10 | 1.10 | 1.10 | 1.21 | 1.38 | 0.66 | 0.56 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.99 | Vf=2.99 | Vf=1.70 | Vf=2.02 | Vf=2.76 | Vf=1.86 | Vf=0.80 |
| Q - PIPE FLOW (L/s) | Q=54 | Q=137 | Q=201 | Q=297 | Q=296 | Q=362 | Q=254 |

DATUM RL -2.0

| | C01-02 | C01-03 | C01-04 | C01-05 | C01-06 | C01-07 | C01-08 | C13-01 |
|---|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 15.612 15.610 / 15.612 | 14.392 14.390 / 14.308 | 12.798 12.760 / 12.689 | 12.010 12.010 / 11.963 | 11.654 11.650 / 11.654 | 11.438 11.260 / 11.104 | 10.110 10.110 / 10.065 | 10.027 / 9.475 |
| FINISHED SURFACE | 16.993 | 15.661 | 14.222 | 13.310 | 13.600 | 13.233 | 10.021 | 9.633 |
| NATURAL SURFACE | 16.720 | 16.701 | 16.751 | 16.642 | 16.495 | 13.277 | 10.021 | 9.633 |
| PIPE INVERT LEVEL | 15.447 / 15.427 | 14.169 / 14.050 | 12.649 / 12.375 | 11.630 / 11.610 | 11.344 9.824 / 11.324 | 11.195 / 10.713 | 8.733 / 8.713 | 8.560 / 8.540 |
| DEPTH TO INVERT | 1.545 / 1.565 | 1.491 / 1.611 | 1.573 / 1.846 | 1.679 / 1.699 | 2.256 / 2.276 | 2.037 / 2.516 | 1.284 / 1.304 | 1.073 / 1.093 |
| CO-ORDINATED SETOUT | E321377.842 N6256894.964 | E321387.192 N6256863.994 | E321397.093 N6256831.201 | E321405.596 N6256799.567 | E321402.956 N6256786.539 | E321401.502 N6256780.252 | E321332.352 N6256755.863 | E321313.837 N6256749.394 |
| CHAINAGE | 6.400 | 38.751 | 73.006 | 105.762 | 119.055 | 125.508 | 198.834 | 218.446 |

## LINE C02

| | C02-01 to C02-02 | C02-02 to C01-05 |
|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 2.3% | 1.0% |
| PIPE SIZE (mm) | 450 | 450 |
| MINIMUM COVER (m) | 1.10 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.68 | Vf=0.70 |
| Q - PIPE FLOW (L/s) | Q=33 | Q=68 |

DATUM RL -1.0

| | C02-01 | C02-02 | C01-05 |
|---|---|---|---|
| H.G.L. (5%AEP) | 12.260 / 12.257 | 12.045 12.050 / 12.030 | 12.010 / 11.963 |
| FINISHED SURFACE | 13.698 | 13.329 | 13.310 |
| NATURAL SURFACE | 16.673 | 16.656 | 16.642 |
| PIPE INVERT LEVEL | 12.103 | 11.891 / 11.766 | 11.692 / 11.610 |
| DEPTH TO INVERT | 1.595 | 1.439 / 1.563 | 1.618 / 1.699 |
| CO-ORDINATED SETOUT | E321421.453 N6256803.969 | E321412.790 N6256801.354 | E321405.596 N6256799.567 |
| CHAINAGE | 0.000 | 9.050 | 16.463 |

## LINE C03

| | C03-01 to C01-03 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 1.0% |
| PIPE SIZE (mm) | 375 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.75 |
| Q - PIPE FLOW (L/s) | Q=52 |

DATUM RL 1.0

| | C03-01 | C01-03 |
|---|---|---|
| H.G.L. (5%AEP) | 14.470 / 14.406 | 14.392 / 14.308 |
| FINISHED SURFACE | 15.661 | 15.661 |
| NATURAL SURFACE | 16.697 | 16.701 |
| PIPE INVERT LEVEL | 14.179 | 14.115 / 14.050 |
| DEPTH TO INVERT | 1.481 | 1.545 / 1.611 |
| CO-ORDINATED SETOUT | E321393.319 N6256865.843 | E321387.192 N6256863.994 |
| CHAINAGE | 0.000 | 6.400 |

## LINE C04

| | C04-01 to C04-02 |
|---|---|
| PIPE CLASS | RRJ2 |
| PIPE GRADE (%) | 2.8% |
| PIPE SIZE (mm) | 600 |
| MINIMUM COVER (m) | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=2.02 |
| Q - PIPE FLOW (L/s) | Q=5 |

DATUM RL 1.0

| | C04-01 | C04-02 |
|---|---|---|
| H.G.L. (5%AEP) | 16.160 / 16.156 | 15.763 14.720 |
| FINISHED SURFACE | 17.827 | 17.635 |
| NATURAL SURFACE | 18.899 | 18.774 |
| PIPE INVERT LEVEL | 16.107 | 15.746 |
| DEPTH TO INVERT | 1.720 | 1.890 |
| CO-ORDINATED SETOUT | E321230.761 N6256845.674 | E321243.709 N6256847.073 |
| CHAINAGE | 0.000 | 13.024 |

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 16.02.23 |
| 08 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:500 @ A1 (0 5 10 15 20 25m)

NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 18

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.28
REVISION: 08
DRAWING SHEET SIZE = A1

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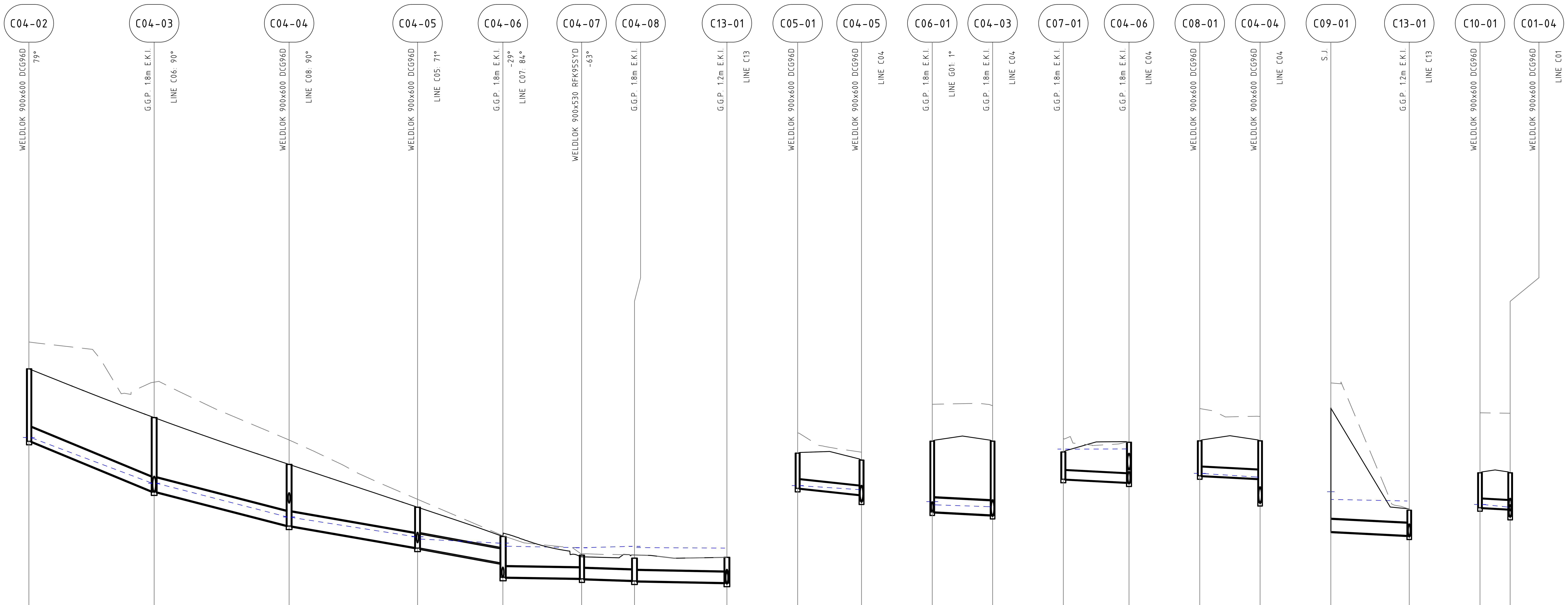


## LINE C04

| | C04-02 → C04-03 | C04-03 → C04-04 | C04-04 → C04-05 | C04-05 → C04-06 | C04-06 → C04-07 | C04-07 → C04-08 | C04-08 → C13-01 |
|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ4 | RRJ4 | RRJ4 | RRJ4 |
| PIPE GRADE (%) | 8.0% | 5.0% | 3.4% | 3.5% | 0.3% | 0.6% | 0.4% |
| PIPE SIZE (mm) | 600 | 600 | 600 | 600 | (2x)450 | (2x)450 | (2x)450 |
| MINIMUM COVER (m) | 2.39 | 1.98 | 1.10 | 0.50 | 0.44 | 0.44 | 0.49 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.57 | Vf=1.75 | Vf=1.76 | Vf=1.83 | Vf=1.11 | Vf=0.45 | Vf=0.03 |
| Q - PIPE FLOW (L/s) | Q=33 | Q=314 | Q=318 | Q=352 | Q=354 | Q=144 | Q=9 |

DATUM RL -1.0

| | C04-02 | C04-03 | C04-04 | C04-05 | C04-06 | C04-07 | C04-08 | C13-01 |
|---|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 15.763 / 14.720 / 14.716 | 12.782 / 12.780 / 12.778 | 11.352 / 11.350 / 11.330 | 10.509 / 10.510 / 10.413 | 10.236 / 10.240 / 10.108 | 10.045 / 10.040 / 10.045 | 10.103 / 10.100 / 10.049 | 10.027 / 9.475 |
| FINISHED SURFACE | 17.635 | 15.565 | 13.578 | 11.761 | 10.519 | 9.657 | 9.734 | 9.633 |
| NATURAL SURFACE | 18.774 | 17.069 | 14.615 | 12.098 | 10.551 | 9.793 | 9.734 | 9.633 |
| PIPE INVERT LEVEL | 15.746 / 14.560 | 12.434 / 12.414 | 10.984 / 10.964 | 10.047 / 10.027 | 9.396 / 8.791 | 8.740 / 8.720 | 8.652 / 8.628 | 8.560 / 8.540 |
| DEPTH TO INVERT | 1.890 / 3.075 | 3.131 / 3.151 | 2.594 / 2.614 | 1.714 / 1.734 | 1.123 / 1.729 | 0.917 / 0.937 | 1.082 / 1.102 | 1.073 / 1.093 |
| CO-ORDINATED SETOUT | E321243.709 N6256847.073 | E321251.389 N6256821.634 | E321259.660 N6256794.240 | E321267.532 N6256768.168 | E321272.762 N6256750.845 | E321284.756 N6256739.224 | E321295.337 N6256742.931 | E321313.837 N6256749.394 |
| CHAINAGE | 13.024 | 39.597 | 68.213 | 95.447 | 113.541 | 130.242 | 141.454 | 161.050 |

## LINE C05

| | C05-01 | C04-05 |
|---|---|---|
| PIPE CLASS | RRJ2 | |
| PIPE GRADE (%) | 2.0% | |
| PIPE SIZE (mm) | 375 | |
| MINIMUM COVER (m) | 1.10 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.51 | |
| Q - PIPE FLOW (L/s) | Q=14 | |
| DATUM RL | -3.0 | |
| H.G.L. (5%AEP) | 10.680 / 10.676 | 10.509 / 10.413 |
| FINISHED SURFACE | 12.056 | 11.761 |
| NATURAL SURFACE | 12.919 | 12.098 |
| PIPE INVERT LEVEL | 10.563 | 10.287 / 10.027 |
| DEPTH TO INVERT | 1.493 | 1.474 / 1.734 |
| CO-ORDINATED SETOUT | E321254.000 N6256768.703 | E321267.532 N6256768.168 |
| CHAINAGE | 0.000 | 13.543 |

## LINE C06

| | C06-01 | C04-03 |
|---|---|---|
| PIPE CLASS | RRJ2 | |
| PIPE GRADE (%) | 1.0% | |
| PIPE SIZE (mm) | 600 | |
| MINIMUM COVER (m) | 2.39 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.53 | |
| Q - PIPE FLOW (L/s) | Q=218 | |
| DATUM RL | 0.0 | |
| H.G.L. (5%AEP) | 13.000 / 12.864 | 12.782 / 12.778 |
| FINISHED SURFACE | 15.565 | 15.565 |
| NATURAL SURFACE | 17.131 | 17.069 |
| PIPE INVERT LEVEL | 12.562 | 12.434 / 12.414 |
| DEPTH TO INVERT | 3.003 | 3.131 / 3.151 |
| CO-ORDINATED SETOUT | E321239.136 N6256817.935 | E321251.389 N6256821.634 |
| CHAINAGE | 0.000 | 12.800 |

## LINE C07

| | C07-01 | C04-06 |
|---|---|---|
| PIPE CLASS | RRJ4 | |
| PIPE GRADE (%) | 1.0% | |
| PIPE SIZE (mm) | 375 | |
| MINIMUM COVER (m) | 0.79 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.14 | |
| Q - PIPE FLOW (L/s) | Q=16 | |
| DATUM RL | -5.0 | |
| H.G.L. (5%AEP) | 10.230 / 10.226 | 10.236 / 10.108 |
| FINISHED SURFACE | 10.106 | 10.519 |
| NATURAL SURFACE | 10.687 | 10.551 |
| PIPE INVERT LEVEL | 8.950 | 8.811 / 8.791 |
| DEPTH TO INVERT | 1.156 | 1.709 / 1.729 |
| CO-ORDINATED SETOUT | E321262.093 N6256741.898 | E321272.762 N6256750.845 |
| CHAINAGE | 0.000 | 13.925 |

## LINE C08

| | C08-01 | C04-04 |
|---|---|---|
| PIPE CLASS | RRJ2 | |
| PIPE GRADE (%) | 1.0% | |
| PIPE SIZE (mm) | 375 | |
| MINIMUM COVER (m) | 1.10 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.10 | |
| Q - PIPE FLOW (L/s) | Q=16 | |
| DATUM RL | -2.0 | |
| H.G.L. (5%AEP) | 12.200 / 12.195 | 12.040 / 11.330 |
| FINISHED SURFACE | 13.578 | 13.578 |
| NATURAL SURFACE | 14.948 | 14.615 |
| PIPE INVERT LEVEL | 12.097 | 11.969 / 10.964 |
| DEPTH TO INVERT | 1.481 | 1.609 / 2.614 |
| CO-ORDINATED SETOUT | E321247.407 N6256790.540 | E321259.660 N6256794.240 |
| CHAINAGE | 0.000 | 12.800 |

## LINE C09

| | C09-01 | C13-01 |
|---|---|---|
| PIPE CLASS | RRJ2 | |
| PIPE GRADE (%) | 1.0% | |
| PIPE SIZE (mm) | 525 | |
| MINIMUM COVER (m) | 0.57 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.27 | |
| Q - PIPE FLOW (L/s) | Q=276 | |
| DATUM RL | -3.0 | |
| H.G.L. (5%AEP) | 10.420 / 10.093 | 10.027 / 9.475 |
| FINISHED SURFACE | 13.966 | 9.633 |
| NATURAL SURFACE | 15.036 | 9.633 |
| PIPE INVERT LEVEL | 8.726 | 8.560 / 8.540 |
| DEPTH TO INVERT | 5.240 | 1.073 / 1.093 |
| CO-ORDINATED SETOUT | E321308.337 N6256765.086 | E321313.837 N6256749.394 |
| CHAINAGE | 0.000 | 16.628 |

## LINE C10

| | C10-01 | C01-04 |
|---|---|---|
| PIPE CLASS | RRJ2 | |
| PIPE GRADE (%) | 1.0% | |
| PIPE SIZE (mm) | 375 | |
| MINIMUM COVER (m) | 1.10 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.21 | |
| Q - PIPE FLOW (L/s) | Q=25 | |
| DATUM RL | 0.0 | |
| H.G.L. (5%AEP) | 12.880 / 12.881 | 12.768 / 12.689 |
| FINISHED SURFACE | 14.222 | 14.222 |
| NATURAL SURFACE | 16.768 | 16.751 |
| PIPE INVERT LEVEL | 12.741 | 12.677 / 12.375 |
| DEPTH TO INVERT | 1.481 | 1.545 / 1.846 |
| CO-ORDINATED SETOUT | E321403.220 N6256833.050 | E321397.093 N6256831.201 |
| CHAINAGE | 0.000 | 6.400 |

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| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
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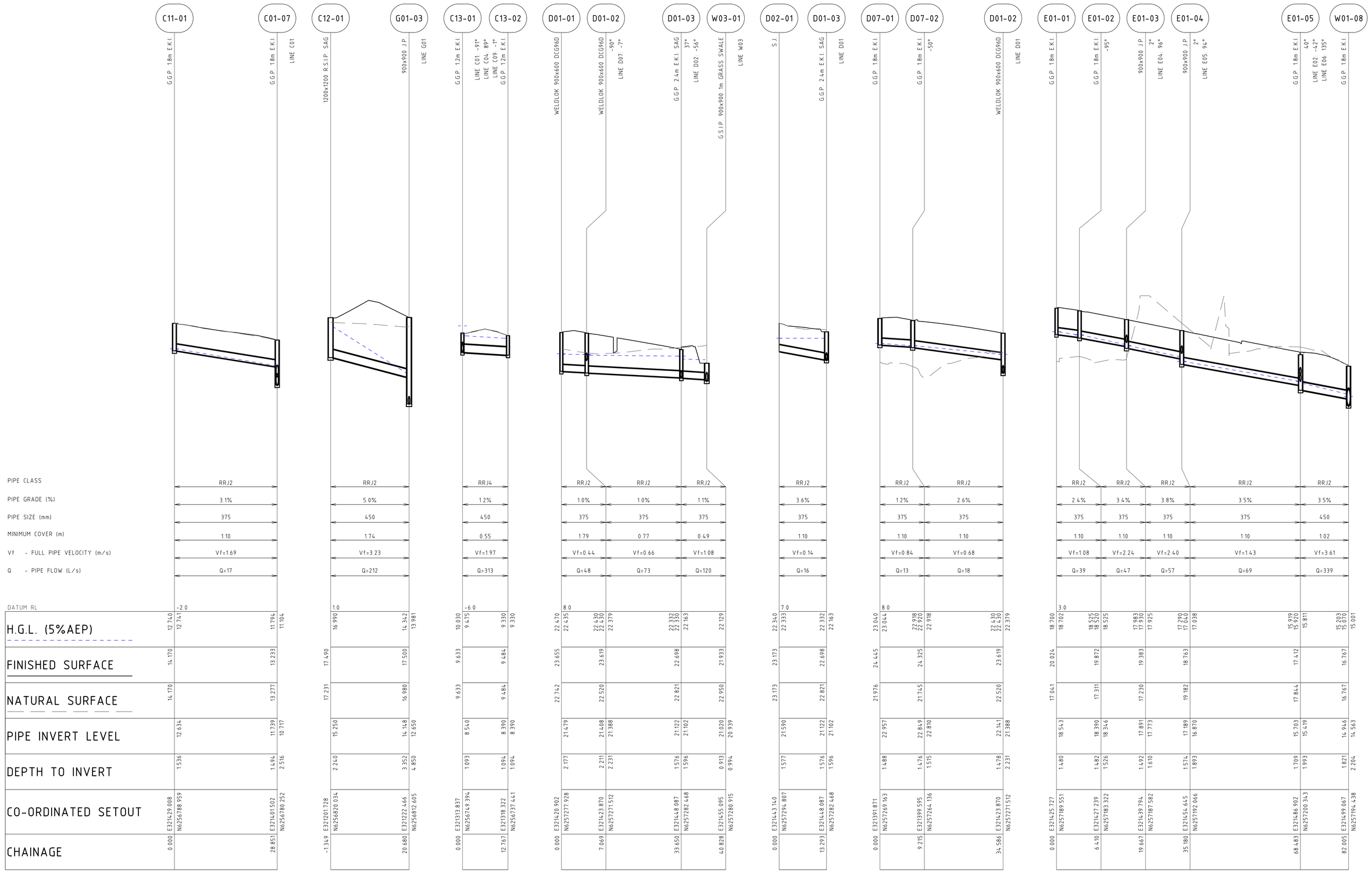
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — STORMWATER LONGITUDINAL SECTIONS SHEET 19

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.29
REVISION: 07
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C05.11.dwg

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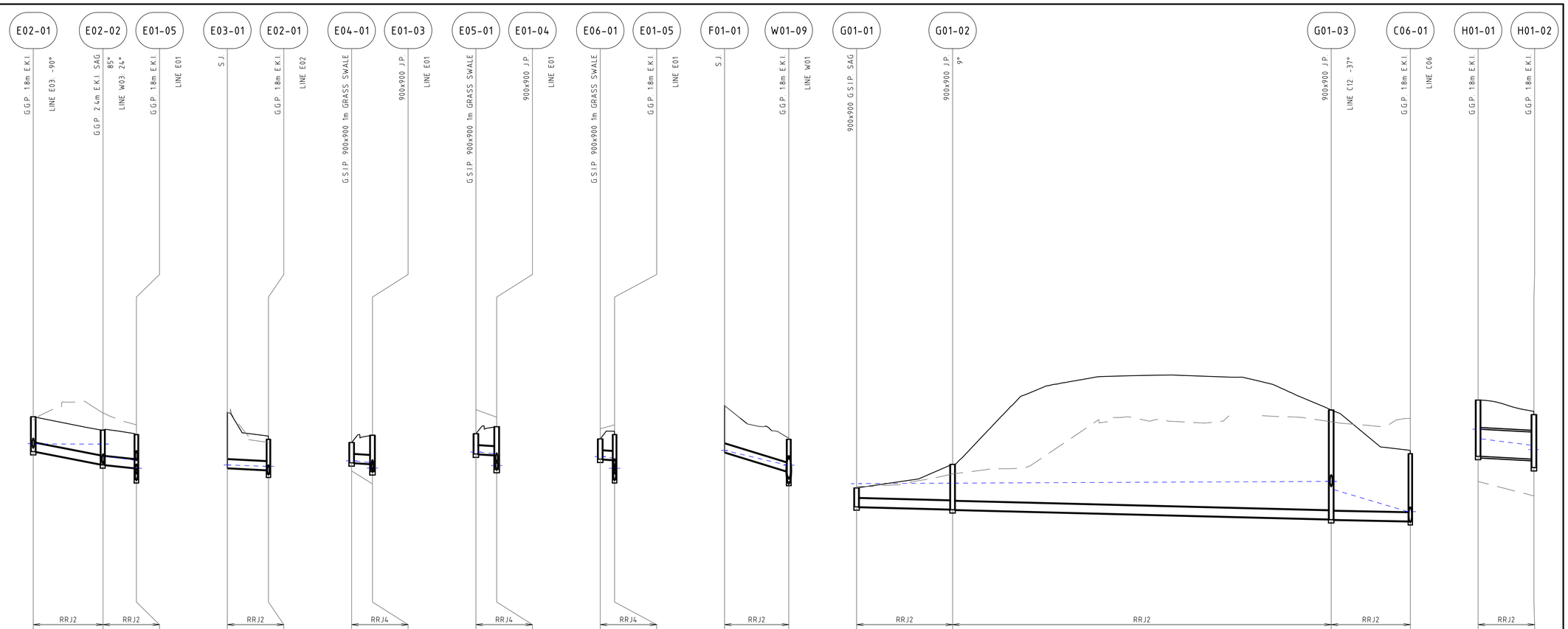
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 20

JOB NUMBER 150077-60
DRAWING NUMBER C05.30
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 19 Oct 2023 - 10:07:20 AM | Plotted by: Adam Rabbitt | Login Name: C:\Users\adam.rabbitt\Documents\Melrose Park Infrastructure DA - 2021\Drawings\C-Civil\150077-60 C05.30 STORMWATER LONGITUDINAL SECTIONS SHEET 20.dwg




| | LINE E02 | | | | | LINE E03 | | | LINE E04 | | | LINE E05 | | | LINE E06 | | | LINE F01 | | LINE G01 | | | | | LINE H01 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | | RRJ2 | | | RRJ2 | | | RRJ4 | | | RRJ4 | | | RRJ4 | | | RRJ2 | | RRJ2 | | RRJ2 | | | RRJ2 | |
| PIPE GRADE (%) | 3.7% | | 1.9% | | | 1.0% | | | 1.0% | | | 1.0% | | | 1.0% | | | 6.0% | | 0.5% | | 0.5% | | 0.4% | 1.0% | |
| PIPE SIZE (mm) | 375 | | 375 | | | 375 | | | 375 | | | 375 | | | 375 | | | 375 | | 375 | | 375 | | | 1200 | |
| MINIMUM COVER (m) | 1.10 | | 1.10 | | | 1.10 | | | 0.60 | | | 0.60 | | | 0.60 | | | 1.10 | | 0.44 | | 1.10 | | 2.73 | 0.85 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.42 | | Vf=2.44 | | | Vf=0.56 | | | Vf=1.00 | | | Vf=1.00 | | | Vf=1.10 | | | Vf=0.87 | | Vf=0.69 | | Vf=0.51 | | | Vf=3.51 | |
| Q - PIPE FLOW (L/s) | Q=44 | | Q=259 | | | Q=19 | | | Q=11 | | | Q=11 | | | Q=17 | | | Q=31 | | Q=76 | | Q=57 | | | Q=2039 | |
| DATUM RL | 2.0 | | | | | 3.0 | | | 4.0 | | | 3.0 | | | 2.0 | | | -1.0 | | 1.0 | | | | | 10.0 | |
| H.G.L. (5%AEP) | 17.010 | 16.999 | 16.990 | 16.990 | 16.451 | 16.279 | 15.920 | 15.811 | 17.070 | 17.066 | 17.009 | 17.010 | 16.999 | 18.250 | 18.253 | 18.175 | 17.930 | 17.925 | 17.640 | 17.644 | 17.566 | 17.040 | 17.038 | 16.440 | 16.445 | 16.369 | 15.920 | 15.811 | 13.710 | 13.715 | 13.065 | 13.060 | 13.006 | 14.240 | 14.244 | 14.263 | 14.260 | 14.263 | 14.340 | 14.340 | 13.980 | 13.000 | 13.000 | 12.864 | 25.650 | 25.230 | 24.939 | 24.750 |
| FINISHED SURFACE | 18.202 | | 17.609 | | 17.412 | | | | 19.392 | | 18.202 | | | 19.060 | | 19.383 | | | 18.651 | | 18.763 | | | 17.219 | | 17.412 | | | 15.696 | | 14.202 | | | 14.050 | | 15.094 | | | 17.500 | | 15.565 | | | 26.942 | | 26.296 | | |
| NATURAL SURFACE | 18.063 | | 18.372 | | 17.844 | | | | 19.392 | | 18.063 | | | 17.803 | | 17.230 | | | 19.515 | | 19.182 | | | 17.670 | | 17.844 | | | 15.696 | | 14.202 | | | 14.120 | | 14.670 | | | 16.980 | | 17.131 | | | 23.335 | | 22.698 | | |
| PIPE INVERT LEVEL | 16.663 | | 16.096 | | 16.076 | | | 15.934 | 15.419 | 16.936 | | 16.845 | 16.663 | 18.164 | | 18.117 | | 17.773 | 17.554 | | 17.508 | | 16.870 | 16.326 | | 16.295 | | 15.419 | 13.637 | | 12.784 | | 12.300 | 13.215 | | 13.109 | | 13.089 | 12.670 | | 12.650 | | 12.582 | 12.562 | 24.450 | | 24.327 | | |
| DEPTH TO INVERT | 1.539 | | 1.513 | | 1.533 | | | 1.478 | 1.993 | 2.456 | | 1.357 | 1.539 | 0.896 | | 1.266 | | 1.610 | 0.897 | | 1.255 | | 1.893 | 0.893 | | 1.118 | | 1.993 | 2.059 | | 1.418 | | 1.902 | 0.835 | | 1.985 | | 2.005 | 4.830 | | 4.850 | | 2.983 | 3.003 | 2.492 | | 1.969 | | |
| CO-ORDINATED SETOUT | E321469.334 N6257202.716 | | E321484.105 N6257207.176 | | | E321469.334 N6257202.716 | | | E321483.316 N6257187.582 | | | E321439.794 N6257187.582 | | | E321456.118 N6257187.716 | | | E321454.645 N6257192.066 | | E321487.962 N6257197.347 | | E321486.902 N6257200.343 | | | E321498.237 N6257153.208 | | E321512.340 N6257151.461 | | | E321123.639 N6256777.691 | | E321142.683 N6256787.097 | | | E321339.083 N6257334.589 | | E321349.876 N6257328.592 | | |
| CHAINAGE | -17.610 | | -2.179 | | | 5.204 | | | 0.000 | | 9.099 | | | 0.000 | | 4.611 | | | 0.000 | | 4.593 | | | 0.000 | | 3.778 | | | 0.000 | | 14.210 | | | 0.000 | | 21.239 | | | 105.002 | | 122.502 | | | 0.000 | | 12.347 | | |

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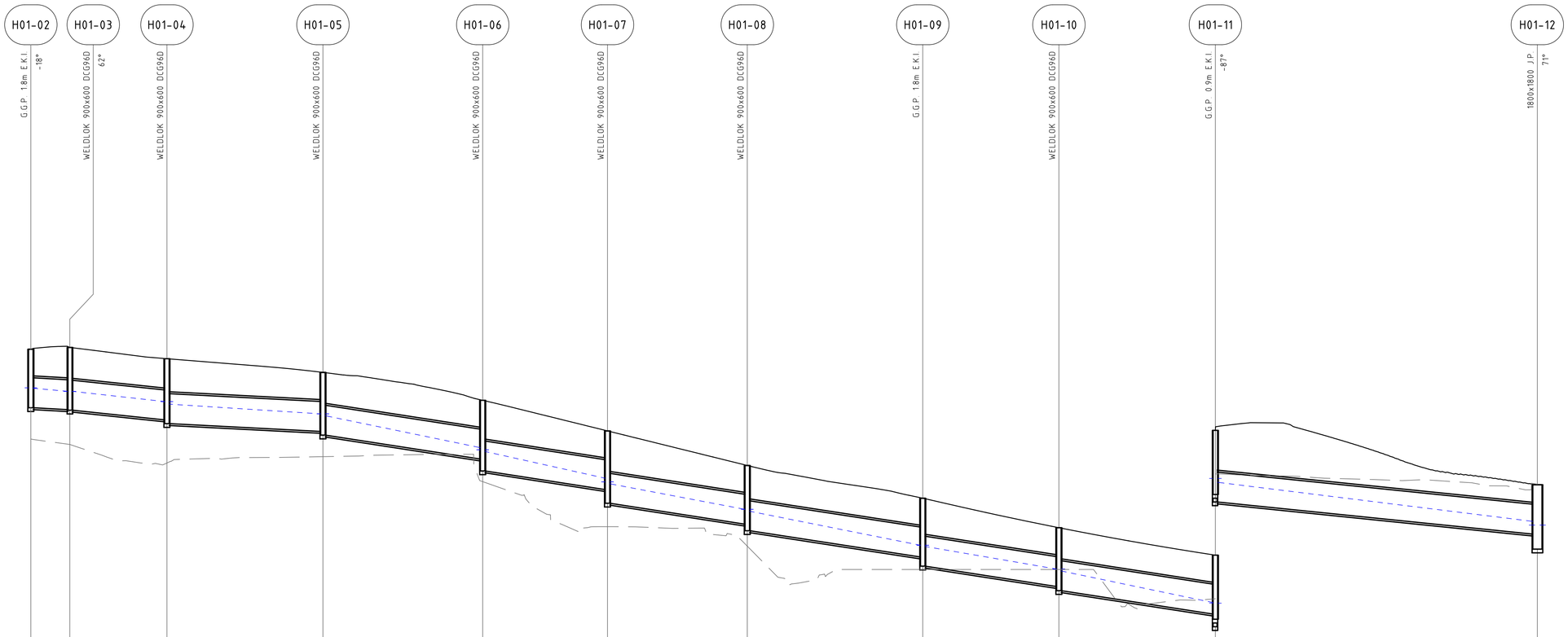
PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**STORMWATER LONGITUDINAL SECTIONS SHEET 21**

JOB NUMBER **150077-60**
DRAWING NUMBER **C05.31**
REVISION **04**
DRAWING SHEET SIZE = A1

Plotted: 19/10/2023 8:00:07 AM By: Melissa Park Infrastructure DA - 2023\10\Drawings\Civil\150077-60 C05.31 Longitudinal Sections Sheet 21.dwg




| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 1.0% | 2.0% | 1.0% | 3.0% | 3.0% | 3.0% | 3.0% | 3.0% | 3.0% | 2.0% | |
| PIPE SIZE (mm) | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | |
| MINIMUM COVER (m) | 1.10 | 1.17 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 0.72 | |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=2.80 | Vf=2.81 | Vf=2.96 | Vf=5.15 | Vf=5.15 | Vf=3.66 | Vf=4.99 | Vf=3.04 | Vf=5.19 | Vf=4.52 | |
| Q - PIPE FLOW (L/s) | Q=2042 | Q=2040 | Q=2043 | Q=2039 | Q=2039 | Q=2043 | Q=2046 | Q=2087 | Q=2086 | Q=2074 | |
| DATUM RL | 6.0 | | | | | | | | | 1.0 | |
| H.G.L. (5%AEP) | 24.939<br>24.750 | 24.733 | 24.611<br>24.610 | 24.611 | 24.200<br>24.200 | 24.097 | 23.707<br>23.710 | 23.634 | 22.351<br>22.270 | 22.200 | 21.127<br>20.980 | 20.966 | 19.879<br>19.880 | 19.866 | 18.440<br>18.440 | 18.394 | 17.487<br>17.490 | 17.412 | 16.144<br>16.120 | 15.904 | 14.398<br>14.250 |
| FINISHED SURFACE | 26.296 | | 26.370 | | 25.916 | | 25.368 | | 24.250 | | 23.024 | | 21.638 | | 20.326 | | 19.144 | | 18.044 | | 15.867 |
| NATURAL SURFACE | 22.698 | | 22.681 | | 21.738 | | 21.991 | | 20.991 | | 19.185 | | 18.406 | | 17.470 | | 17.470 | | 16.299 | | 15.891 |
| PIPE INVERT LEVEL | 24.327 | 23.952 | 23.874 | 23.854 | 23.465 | 23.316 | 23.003 | 22.854 | 21.894 | 21.420 | 20.670 | 20.125 | 19.285 | 19.024 | 17.970 | 17.604 | 16.786 | 16.622 | 15.682 | 15.177 | 13.887 |
| DEPTH TO INVERT | 1.969 | 2.344 | 2.495 | 2.515 | 2.451 | 2.601 | 2.365 | 2.514 | 2.356 | 2.830 | 2.354 | 2.899 | 2.354 | 2.614 | 2.356 | 2.722 | 2.358 | 2.522 | 2.362 | 2.868 | 1.980 |
| CO-ORDINATED SETOUT | E321349.876<br>N6257328.592 | | E321357.531<br>N6257327.068 | | E321363.061<br>N6257308.412 | | E321372.092<br>N6257278.501 | | E321381.341<br>N6257247.867 | | E321388.567<br>N6257223.934 | | E321396.690<br>N6257197.129 | | E321406.819<br>N6257163.480 | | E321414.700<br>N6257137.375 | | E321423.760<br>N6257107.368 | | E321486.411<br>N6257122.644 |
| CHAINAGE | 12.347 | 20.153 | | 39.611 | | | 70.856 | | 102.856 | | 127.856 | | 155.856 | | 191.005 | | 218.273 | | 249.618 | | 314.105 |

LINE H01

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DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 21

JOB NUMBER 150077-60
DRAWING NUMBER C05.31
REVISION 04
DRAWING SHEET SIZE = A1

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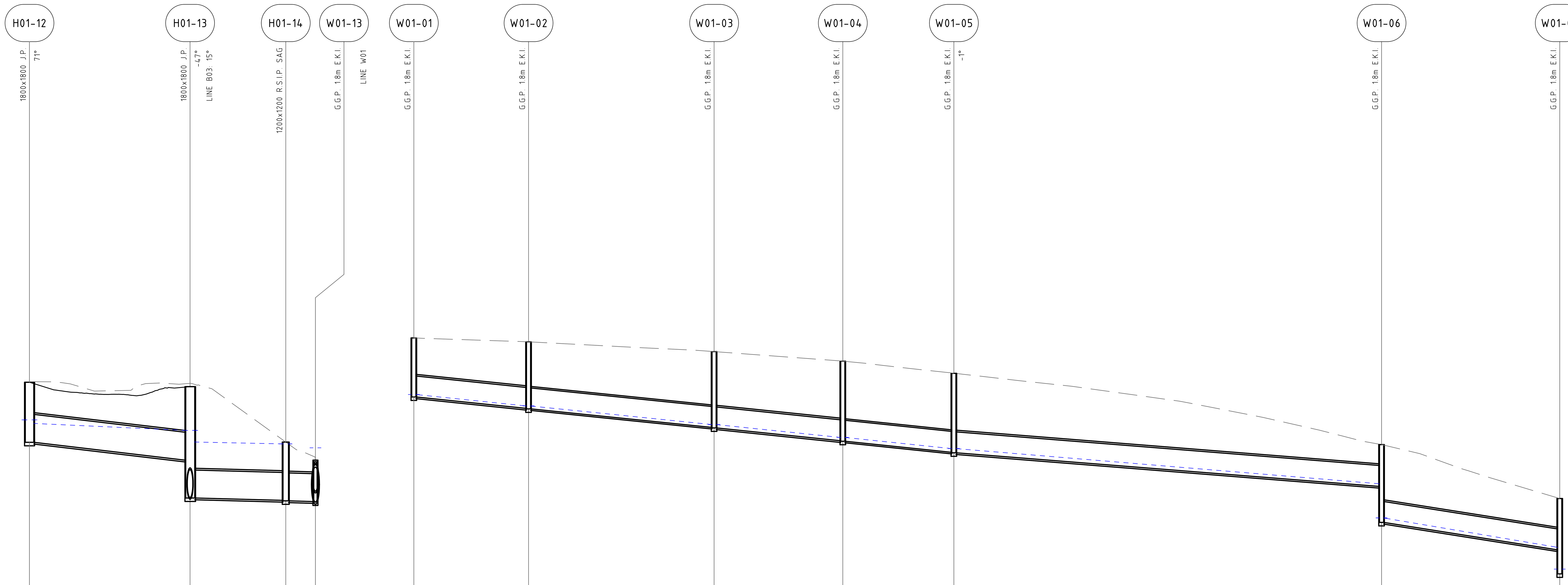


## LINE H01

| | H01-12 → H01-13 | H01-13 → H01-14 | H01-14 → W01-13 |
|---|---|---|---|
| PIPE CLASS | RRJ2 | RRJ2 | RRJ2 |
| PIPE GRADE (%) | 2.2% | 0.5% | 0.5% |
| PIPE SIZE (mm) | 1200 | 1200 | 1200 |
| MINIMUM COVER (m) | 1.10 | 1.32 | 1.10 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=2.70 | Vf=2.58 | |
| Q - PIPE FLOW (L/s) | Q=2199 | Q=2919 | Q=0 |

DATUM RL -2.0

| | H01-12 | H01-13 | H01-14 | W01-13 |
|---|---|---|---|---|
| H.G.L. (5%AEP) | 14.398 / 14.250 / 14.098 | 13.798 / 13.800 / 13.300 | 13.219 / 13.220 | 13.050 / 12.713 |
| FINISHED SURFACE | 15.867 | 15.679 | 13.298 | 12.522 |
| NATURAL SURFACE | 15.891 | 15.821 | 13.298 | 12.522 |
| PIPE INVERT LEVEL | 13.887 / 13.287 | 12.517 / 10.895 | 10.792 / 10.772 | 10.740 / 10.724 |
| DEPTH TO INVERT | 1.980 / 2.580 | 3.162 / 4.784 | 2.506 / 2.526 | 1.782 / 1.798 |
| CO-ORDINATED SETOUT | E321486.411 N6257122.644 | E321505.161 N6257093.703 | E321525.365 N6257089.944 | E321531.630 N6257088.778 |
| CHAINAGE | 314.105 | 348.589 | 369.140 | 375.512 |

## LINE W01

| | W01-01 → W01-02 | W01-02 → W01-03 | W01-03 → W01-04 | W01-04 → W01-05 | W01-05 → W01-06 | W01-06 → W01-07 |
|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ4 | RRJ2 | RRJ4 | RRJ2 | RRJ4 | RRJ4 |
| PIPE GRADE (%) | 2.0% | 2.0% | 2.0% | 2.0% | 1.6% | 3.1% |
| PIPE SIZE (mm) | 900 | 900 | 900 | 900 | 900 | 900 |
| MINIMUM COVER (m) | 1.56 | 1.91 | 2.30 | 2.45 | 0.84 | 1.26 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=0.69 | Vf=1.01 | Vf=1.10 | Vf=1.16 | Vf=1.82 | Vf=2.41 |
| Q - PIPE FLOW (L/s) | Q=28 | Q=53 | Q=71 | Q=89 | Q=84 | Q=104 |

DATUM RL 7.0

| | W01-01 | W01-02 | W01-03 | W01-04 | W01-05 | W01-06 | W01-07 |
|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 24.340 / 24.338 | 23.847 / 23.850 / 23.847 | 23.049 / 23.050 / 23.049 | 22.495 / 22.500 / 22.495 | 22.016 / 22.020 / 22.016 | 20.504 / 19.040 / 19.037 | 17.773 / 16.840 |
| FINISHED SURFACE | 26.771 | 26.603 | 26.184 | 25.774 | 25.250 | 22.189 | 19.872 |
| NATURAL SURFACE | 26.773 | 26.603 | 26.184 | 25.774 | 25.255 | 22.189 | 19.872 |
| PIPE INVERT LEVEL | 24.235 | 23.743 / 23.723 | 22.926 / 22.906 | 22.353 / 22.333 | 21.856 / 21.836 | 20.391 / 18.846 | 17.665 |
| DEPTH TO INVERT | 2.536 | 2.861 / 2.881 | 3.258 / 3.278 | 3.421 / 3.441 | 3.394 / 3.414 | 1.798 / 3.343 | 2.207 |
| CO-ORDINATED SETOUT | E321415.424 N6257471.670 | E321422.494 N6257448.074 | E321433.846 N6257409.880 | E321441.596 N6257383.355 | E321448.285 N6257360.461 | E321475.081 N6257272.623 | E321486.329 N6257236.051 |
| CHAINAGE | 0.000 | 24.633 | 64.478 | 92.113 | 115.963 | 207.798 | 246.060 |

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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SCALE 1:500 @ A1 (0 5 10 15 20 25m)

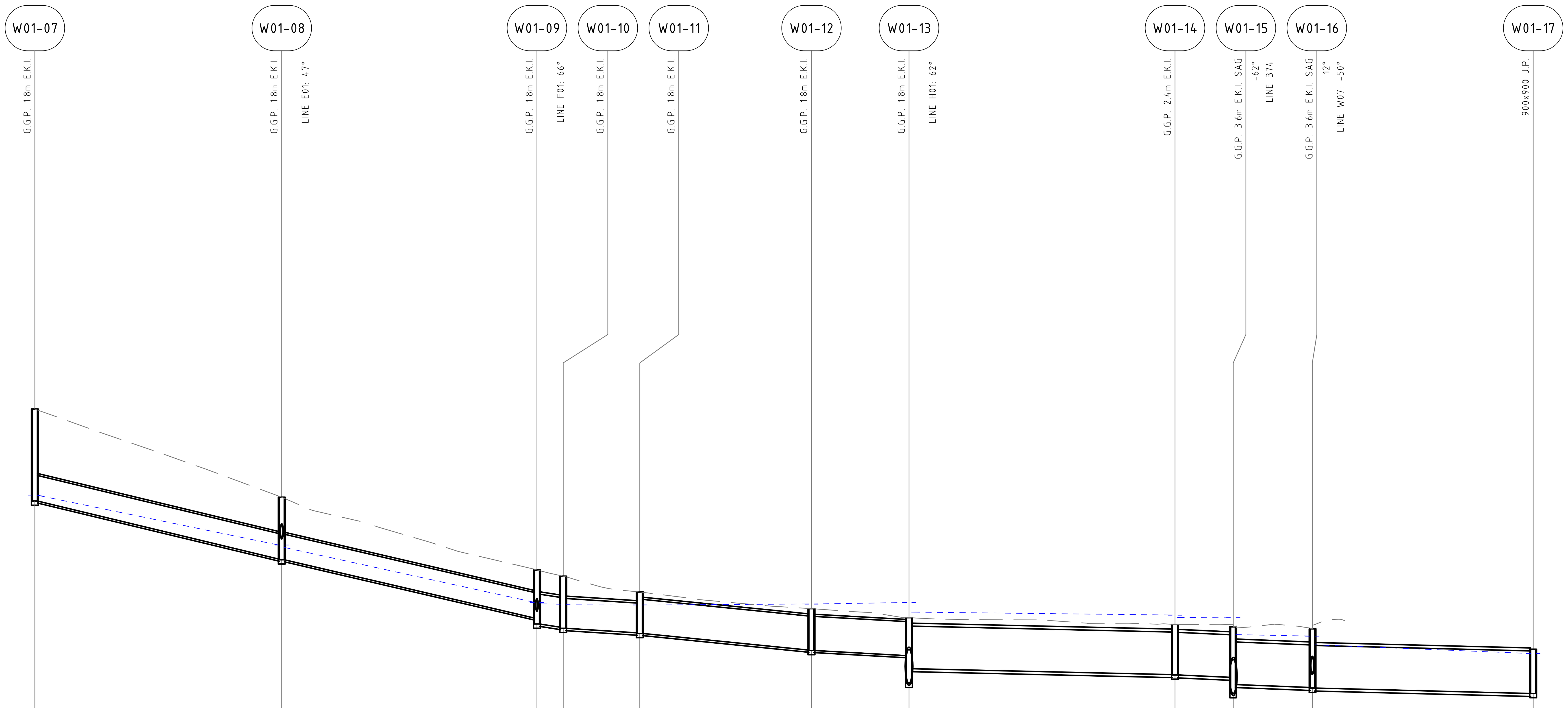
NORTHROP
Sydney
Level 11 345 George Street, Sydney NSW 2000
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 21

JOB NUMBER 150077-60
DRAWING NUMBER C05.31
REVISION 04
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C05.11.dwg




| | W01-07 to W01-08 | W01-08 to W01-09 | W01-09 to W01-10 | W01-10 to W01-11 | W01-11 to W01-12 | W01-12 to W01-13 | W01-13 to W01-14 | W01-14 to W01-15 | W01-15 to W01-16 | W01-16 to W01-17 |
|---|---|---|---|---|---|---|---|---|---|---|
| PIPE CLASS | RRJ4 | RRJ4 | RRJ4 | RRJ4 | RRJ3 | RRJ2 | RRJ4 | RRJ4 | RRJ4 | RRJ4 |
| PIPE GRADE (%) | 4.7% | 4.6% | 2.5% | 1.2% | 1.9% | 1.1% | 0.4% | 0.8% | 0.7% | 0.5% |
| PIPE SIZE (mm) | 900 | 900 | 1050 | 1050 | 1200 | 1200 | 1500 | 1500 | 2100x1500 | 2100x1500 |
| MINIMUM COVER (m) | 1.15 | 0.75 | 0.68 | 0.31 | -0.07 | 0.05 | 0.13 | 0.17 | 0.39 | 0.63 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.14 | Vf=1.82 | Vf=0.95 | Vf=0.87 | Vf=0.68 | Vf=0.62 | Vf=1.67 | Vf=1.64 | Vf=2.43 | Vf=2.93 |
| Q - PIPE FLOW (L/s) | Q=122 | Q=552 | Q=597 | Q=648 | Q=683 | Q=706 | Q=3047 | Q=2991 | Q=4428 | Q=5172 |

DATUM RL 0.0

| | W01-07 | W01-08 | W01-09 | W01-10 | W01-11 | W01-12 | W01-13 | W01-14 | W01-15 | W01-16 | W01-17 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| H.G.L. (5%AEP) | 17.773 16.840 / 16.836 | 15.077 15.080 / 14.997 | 13.064 13.060 / 13.006 | 13.000 13.000 / 12.975 | 12.967 12.970 / 12.967 | 13.004 13.000 / 13.004 | 13.056 13.060 / 12.719 | 12.615 12.610 / 12.527 | 12.516 12.520 / 11.924 | 11.874 11.870 / 11.565 | 11.260 11.260 / 11.260 |
| FINISHED SURFACE | 19.872 | 16.767 | 14.202 | 13.984 | 13.428 | 12.841 | 12.522 | 12.284 | 12.285 | 12.129 | 11.410 |
| NATURAL SURFACE | 19.872 | 16.767 | 14.202 | 13.984 | 13.428 | 12.841 | 12.522 | 12.284 | 12.285 | 12.129 | 11.410 |
| PIPE INVERT LEVEL | 17.665 / 16.634 | 14.583 / 14.563 | 12.509 / 12.300 | 12.184 / 12.148 | 11.987 / 11.967 | 11.379 / 11.366 | 11.185 10.209 / 10.724 | 10.515 / 10.504 | 10.419 9.850 / 10.166 | 10.061 / 10.041 | 9.850 / 9.850 |
| DEPTH TO INVERT | 2.207 / 3.238 | 2.184 / 2.204 | 1.693 / 1.902 | 1.800 / 1.836 | 1.441 / 1.461 | 1.462 / 1.475 | 1.337 / 1.798 | 1.769 / 1.780 | 1.866 / 2.120 | 2.068 / 2.088 | 1.560 / 1.560 |
| CO-ORDINATED SETOUT | E321486.329 N6257236.051 | E321499.067 N6257194.438 | E321512.340 N6257151.461 | E321513.689 N6257147.025 | E321517.635 N6257134.116 | E321526.558 N6257105.206 | E321531.630 N6257088.778 | E321545.464 N6257043.979 | E321548.467 N6257034.160 | E321562.150 N6257031.487 | E321597.935 N6257016.164 |
| CHAINAGE | 246.060 | 289.579 | 334.559 | 339.196 | 352.694 | 382.950 | 400.143 | 447.030 | 457.297 | 471.239 | 510.166 |

LINE W01

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | |

CLIENT: SEKISUI HOUSE

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ARCHITECT

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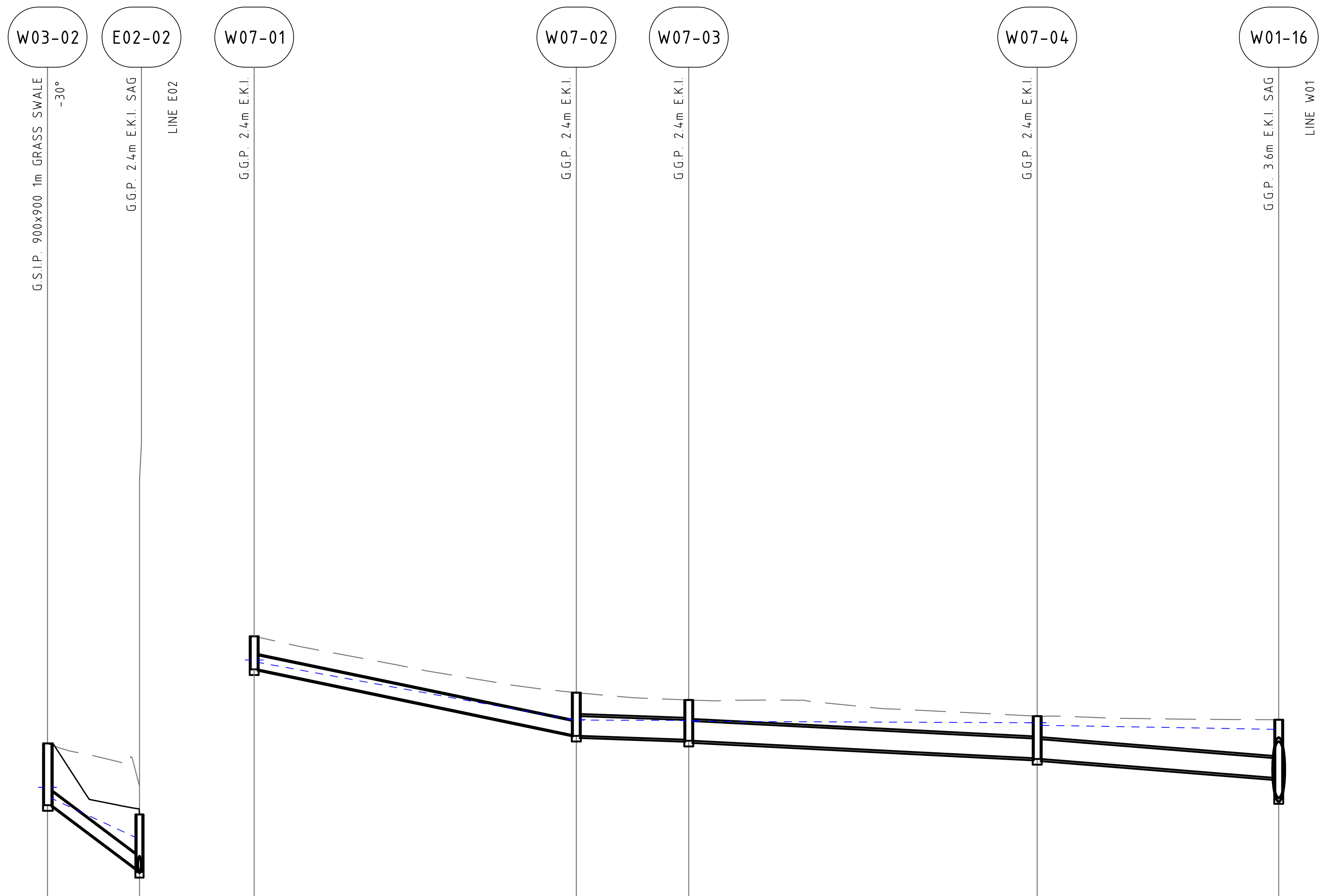
Ph (02) 9241 4188 Fax (02) 9241 4324
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE
STORMWATER LONGITUDINAL SECTIONS SHEET 21

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.31
REVISION: 04
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C05.11.dwg




| | W03-02 – E02-02 | W07-01 – W07-02 | W07-02 – W07-03 | W07-03 – W07-04 | W07-04 – W01-16 |
|---|---|---|---|---|---|
| PIPE CLASS | RRJ4 | RRJ4 | RRJ4 | RRJ4 | RRJ4 |
| PIPE GRADE (%) | 13.9% | 4.1% | 0.7% | 1.0% | 1.6% |
| PIPE SIZE (mm) | 375 | 375 | 525 | 525 | 525 |
| MINIMUM COVER (m) | 0.50 | 0.43 | 0.48 | 0.50 | 0.55 |
| Vf - FULL PIPE VELOCITY (m/s) | Vf=1.88 | Vf=1.21 | Vf=0.66 | Vf=0.75 | Vf=1.14 |
| Q - PIPE FLOW (L/s) | Q=186 | Q=67 | Q=123 | Q=161 | Q=247 |

| | W03-02 | E02-02 | W07-01 | W07-02 | W07-03 | W07-04 | W01-16 |
|---|---|---|---|---|---|---|---|
| DATUM RL | 5.0 | | -3.0 | | | | |
| H.G.L. (5%AEP) | 18.330 18.044 | 16.990 16.451 | 13.720 13.659 | 12.129 12.130 12.120 | 12.112 12.110 12.088 | 12.049 12.050 11.982 | 11.874 11.565 |
| FINISHED SURFACE | 19.499 | 17.609 | 14.351 | 12.851 | 12.654 | 12.224 | 12.129 |
| NATURAL SURFACE | 19.499 | 18.372 | 14.351 | 12.851 | 12.654 | 12.224 | 12.129 |
| PIPE INVERT LEVEL | 17.731 | 16.150 16.076 | 13.470 | 11.720 11.700 | 11.600 11.569 | 11.105 11.085 | 10.580 10.041 |
| DEPTH TO INVERT | 0.963 1.645 | 1.458 1.533 | 0.881 | 1.131 1.151 | 1.054 1.086 | 1.119 1.139 | 1.549 2.088 |
| CO-ORDINATED SETOUT | E321475.202 N6257215.571 | E321484.105 N6257207.176 | E321521.952 N6257161.773 | E321534.577 N6257120.804 | E321538.971 N6257106.499 | E321552.675 N6257062.204 | E321562.150 N6257031.487 |
| CHAINAGE | 68.368 | 80.605 | 0.000 | 42.870 | 57.835 | 104.201 | 136.347 |

LINE W03    LINE W07

DRAWN: B.MAZZA  DESIGNED: A.RIVETT  JOB MANAGER: P.SUTTON  VERIFIER: -

# NOT FOR CONSTRUCTION

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | |

CLIENT: SEKISUI HOUSE

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SCALE 1:500 @ A1 (0 5 10 15 20 25m)

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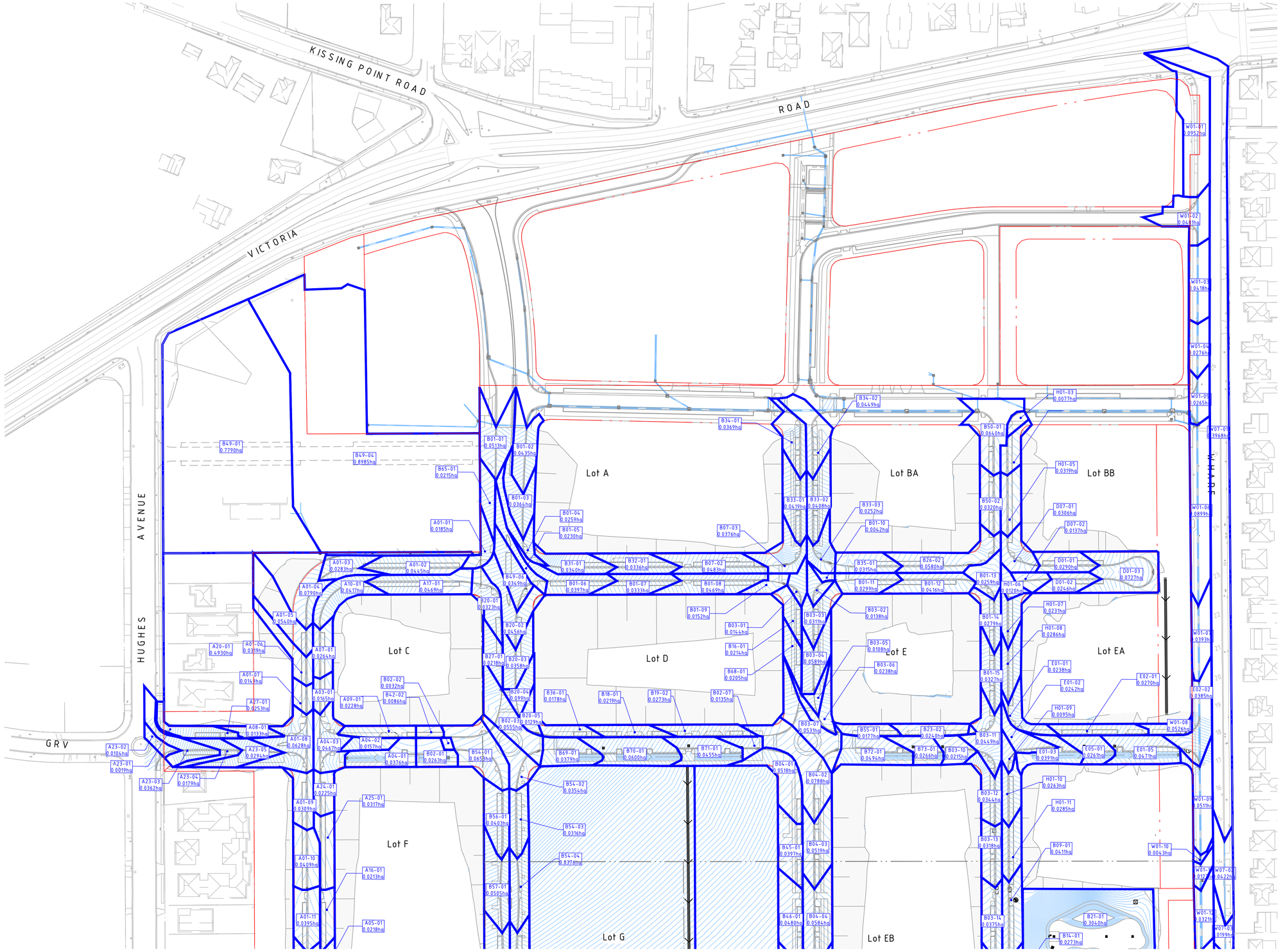
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE — STORMWATER LONGITUDINAL SECTIONS SHEET 21

JOB NUMBER: 150077-60
DRAWING NUMBER: C05.31
REVISION: 04
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C05.11.dwg




## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- PROPOSED CONTOURS (XX.XX)
- CATCHMENT BOUNDARY
- B02-06 0.0456ha — STORMWATER PIT TAG / CATCHMENT AREA (ha)
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- V-SHAPED CHANNEL

## NOTES

1. PEAK RUNOFF FROM FUTURE LOTS HAS BEEN DIRECTLY CALCULATED BASED ON LOT AREA AND A SITE REFERENCE DISCHARGE OF 150 L/s/ha

VERIFIER:
JOB MANAGER:
DESIGNED:
DRAWN:

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | REISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:1000 @ A1
0 10 20 30 40 50m

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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

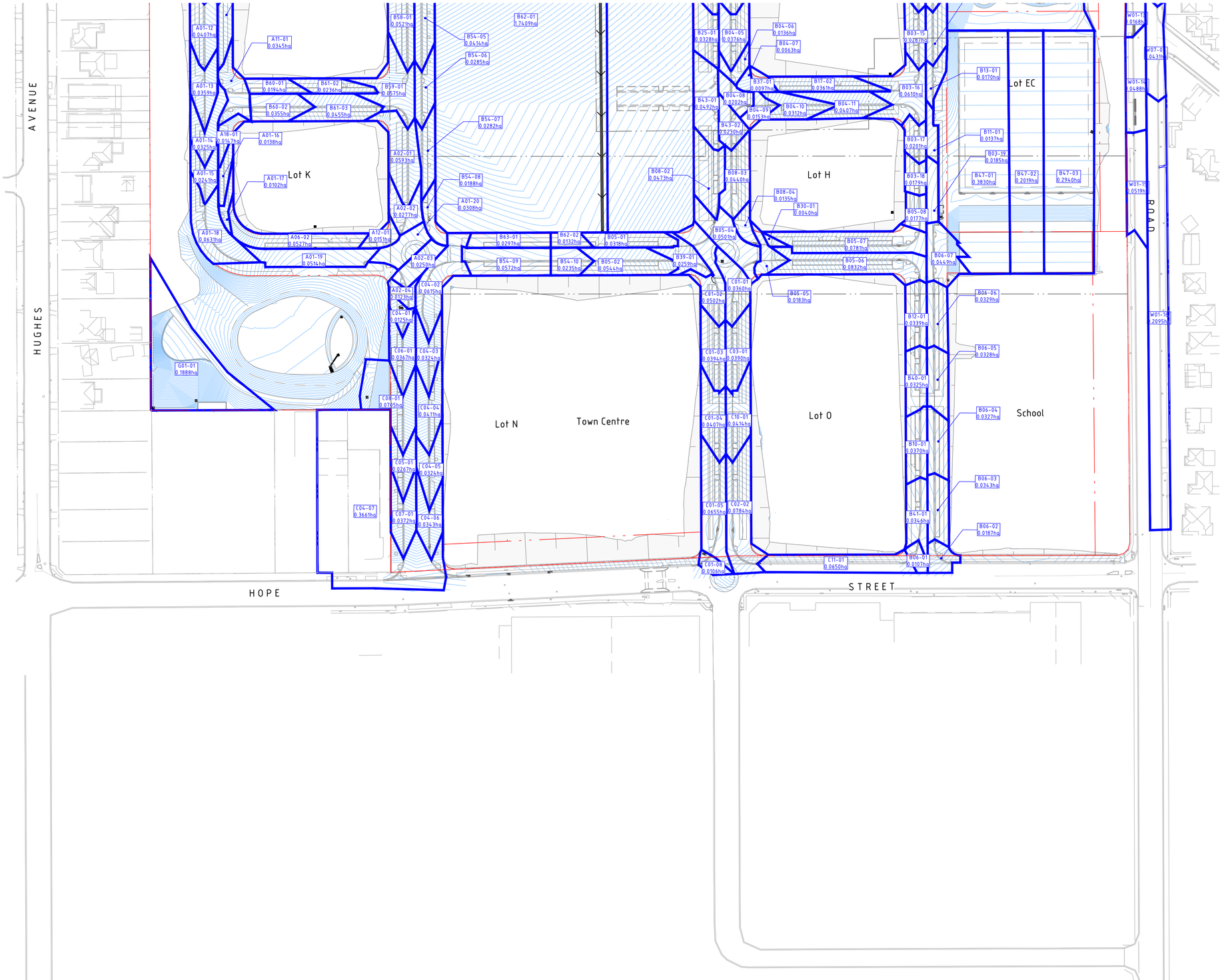
**CATCHMENT PLAN SHEET 01**

JOB NUMBER **150077-60**

DRAWING NUMBER **C05.51** REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:00:37 AM - Melrose Park Infrastructure DA - 150077-60\Drawings\Civil\150077-60 C-CAD\150077-60_C05.51.dwg




## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- PROPOSED CONTOURS
- CATCHMENT BOUNDARY
- B02-06 0.0455ha — STORMWATER PIT TAG / CATCHMENT AREA (ha)
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- V-SHAPED CHANNEL

## NOTES

1. PEAK RUNOFF FROM FUTURE LOTS HAS BEEN DIRECTLY CALCULATED BASED ON LOT AREA AND A SITE REFERENCE DISCHARGE OF 150 L/s/ha

VERIFIER:
JOB MANAGER:
DESIGNED:
DRAWN:

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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Sydney
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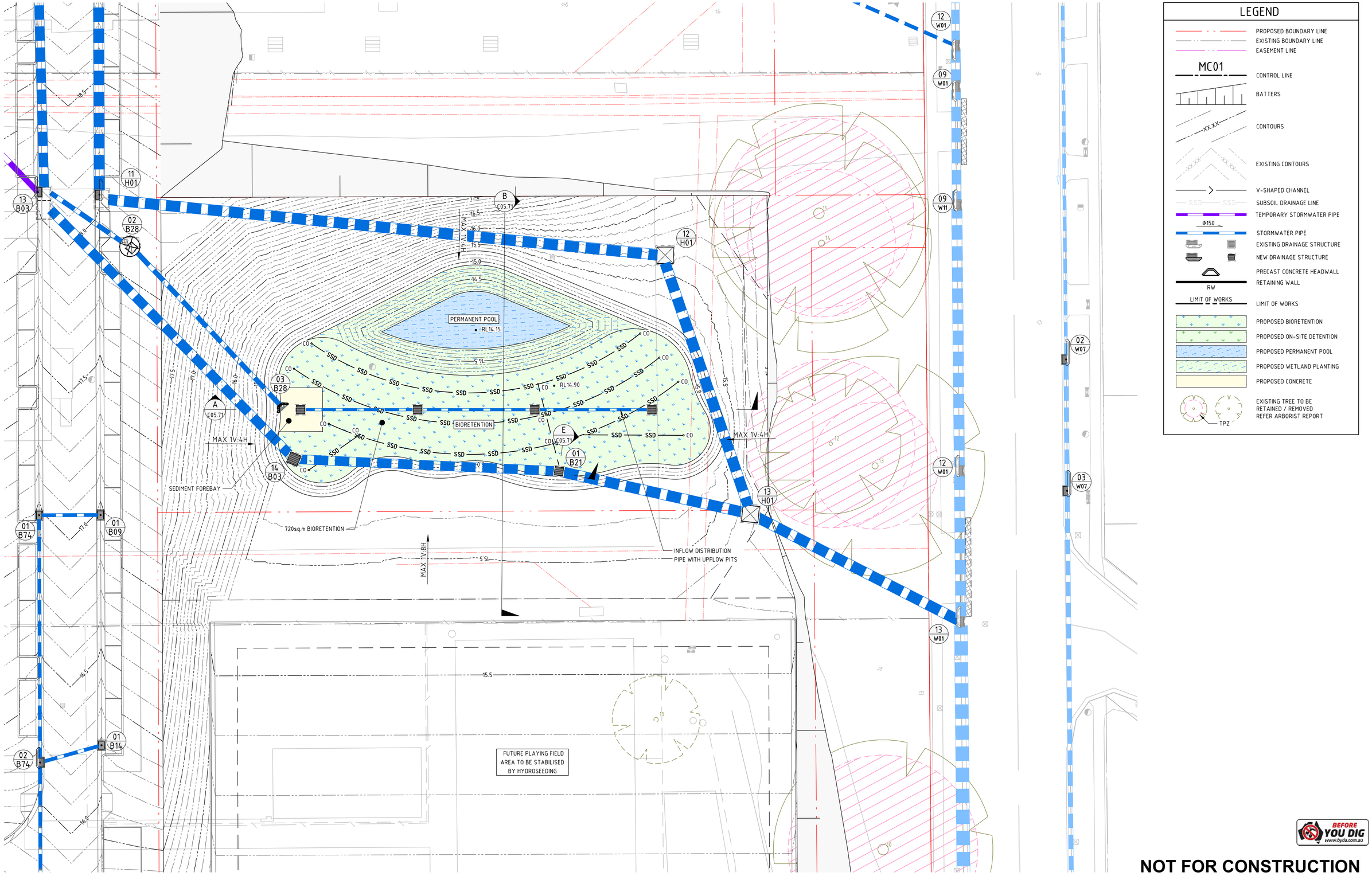
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
CATCHMENT PLAN SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C05.52
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: Fri,13 Oct 2023,08:07:49 - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\15XX\150077-60_C05.52.dwg




## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- MC01 — CONTROL LINE
- BATTERS
- XX.XX — CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- SSD — SUBSOIL DRAINAGE LINE
- TEMPORARY STORMWATER PIPE
- ϕ150 — STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- PRECAST CONCRETE HEADWALL
- RW — RETAINING WALL
- LIMIT OF WORKS — LIMIT OF WORKS
- PROPOSED BIORETENTION
- PROPOSED ON-SITE DETENTION
- PROPOSED PERMANENT POOL
- PROPOSED WETLAND PLANTING
- PROPOSED CONCRETE
- V / TPZ — EXISTING TREE TO BE RETAINED / REMOVED REFER ARBORIST REPORT

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | AP | | AR | 03.02.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:200@ A1 — 0 2 4 6 8 10m

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

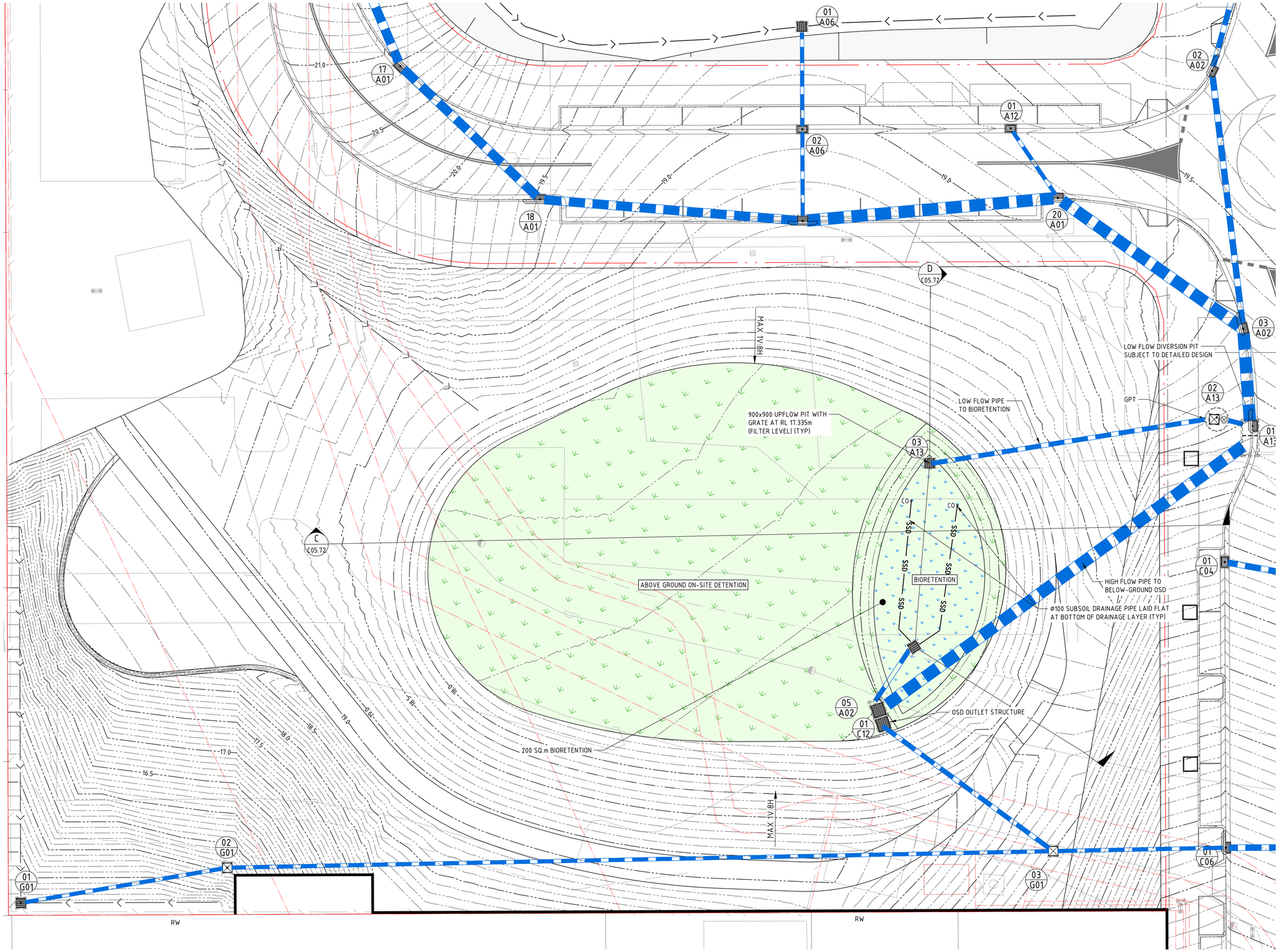
**BASIN LAYOUT PLAN SHEET 01**

JOB NUMBER **150077-60**

DRAWING NUMBER **C05.61** REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 10:08:07 AM By: Melrose Park Infrastructure DA - 2021/1/Drawing/Civil/150077-60 CAD/01 CIVIL/150077-60_C05.01.dwg




## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- EASEMENT LINE
- MC01 — CONTROL LINE
- BATTERS
- XX.XX — CONTOURS
- EXISTING CONTOURS
- V-SHAPED CHANNEL
- SSD — SUBSOIL DRAINAGE LINE
- TEMPORARY STORMWATER PIPE
- Φ150 — STORMWATER PIPE
- EXISTING DRAINAGE STRUCTURE
- NEW DRAINAGE STRUCTURE
- PRECAST CONCRETE HEADWALL
- RW — RETAINING WALL
- LIMIT OF WORKS — LIMIT OF WORKS
- PROPOSED BIORETENTION
- PROPOSED ON-SITE DETENTION
- PROPOSED PERMANENT POOL
- PROPOSED WETLAND PLANTING
- PROPOSED CONCRETE
- EXISTING TREE TO BE RETAINED / REMOVED REFER ARBORIST REPORT — TPZ

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 04 | REISSUED FOR DA | AP | | AR | 03.02.22 |
| 05 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 06 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 07 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 08 | REISSUED FOR DA | BM | | AR | 16.02.23 |
| 09 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

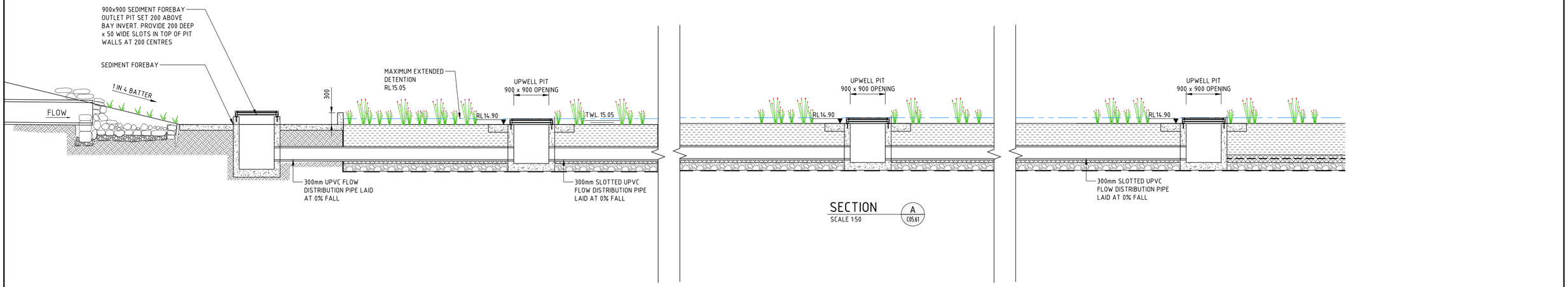
**BASIN LAYOUT PLAN SHEET 02**

JOB NUMBER **150077-60**

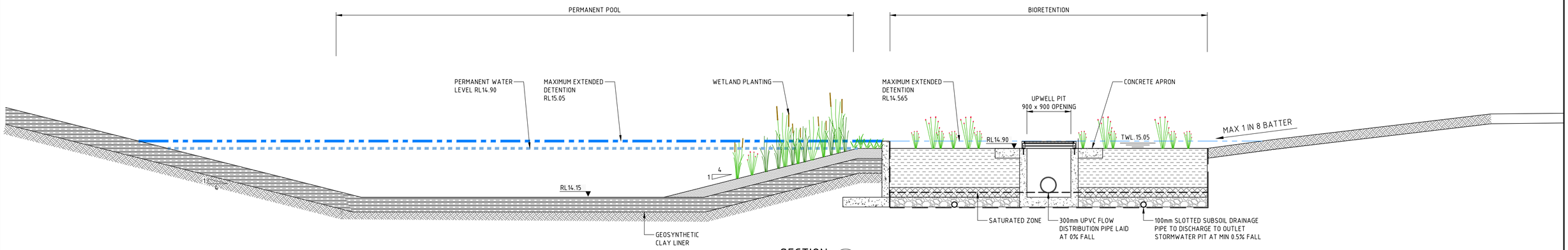
DRAWING NUMBER **C05.62** REVISION **09**

DRAWING SHEET SIZE = A1

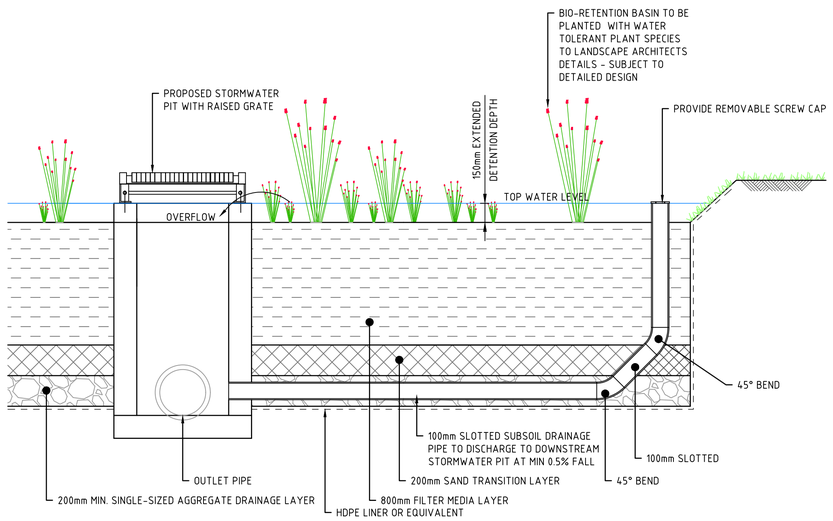
Plotted: 16/10/2023 7:40 - Melrose Park Infrastructure DA - 150077-60 Drawings\Civil\150077-60 - C05.62 Basin Layout Plan Sheet 02.dwg



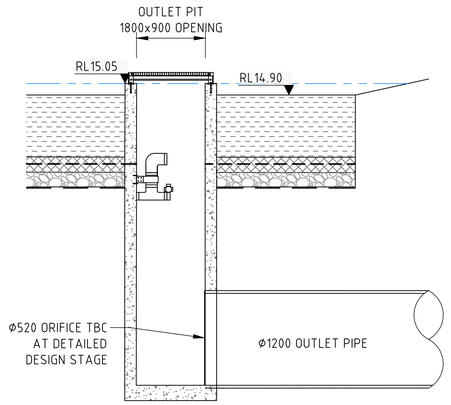

SECTION A (C05.61)
SCALE 1:50




SECTION B (C05.61)
SCALE 1:40




TYPICAL BIORETENTION BASIN DETAIL




SECTION E (C05.61)
SCALE 1:40

DESIGNED: A.RIVETT
DRAWN: B.MAZZA
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**BASIN SECTIONS SHEET 01**

JOB NUMBER **150077-60**
DRAWING NUMBER **C05.71**
REVISION **06**
DRAWING SHEET SIZE = A1

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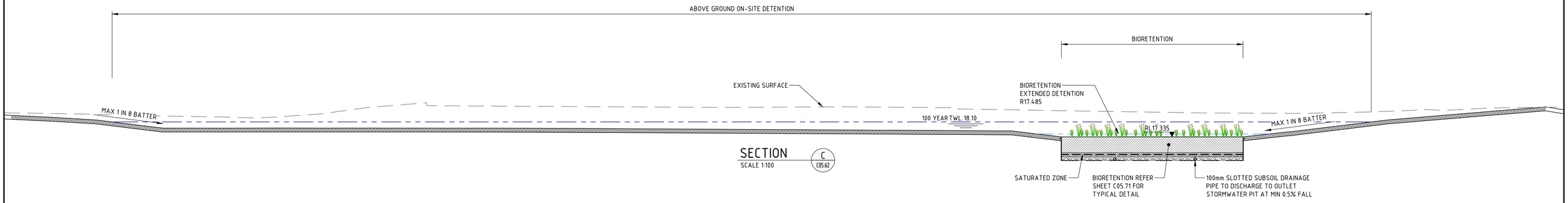
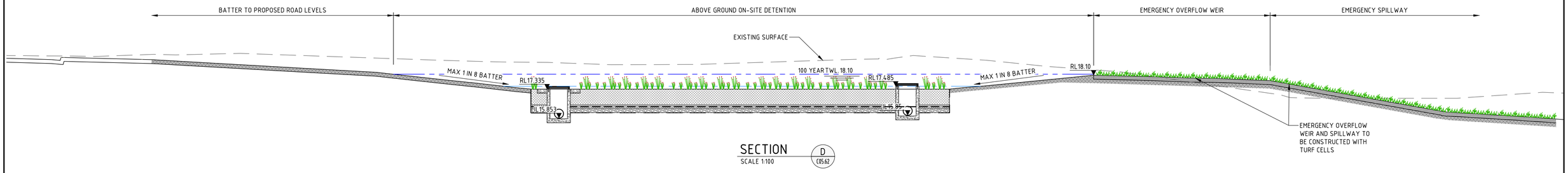



SECTION C
SCALE 1:100 C05.62




SECTION D
SCALE 1:100 C05.62

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 04 | REISSUED FOR DA | AP | | AR | 03.02.22 |
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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

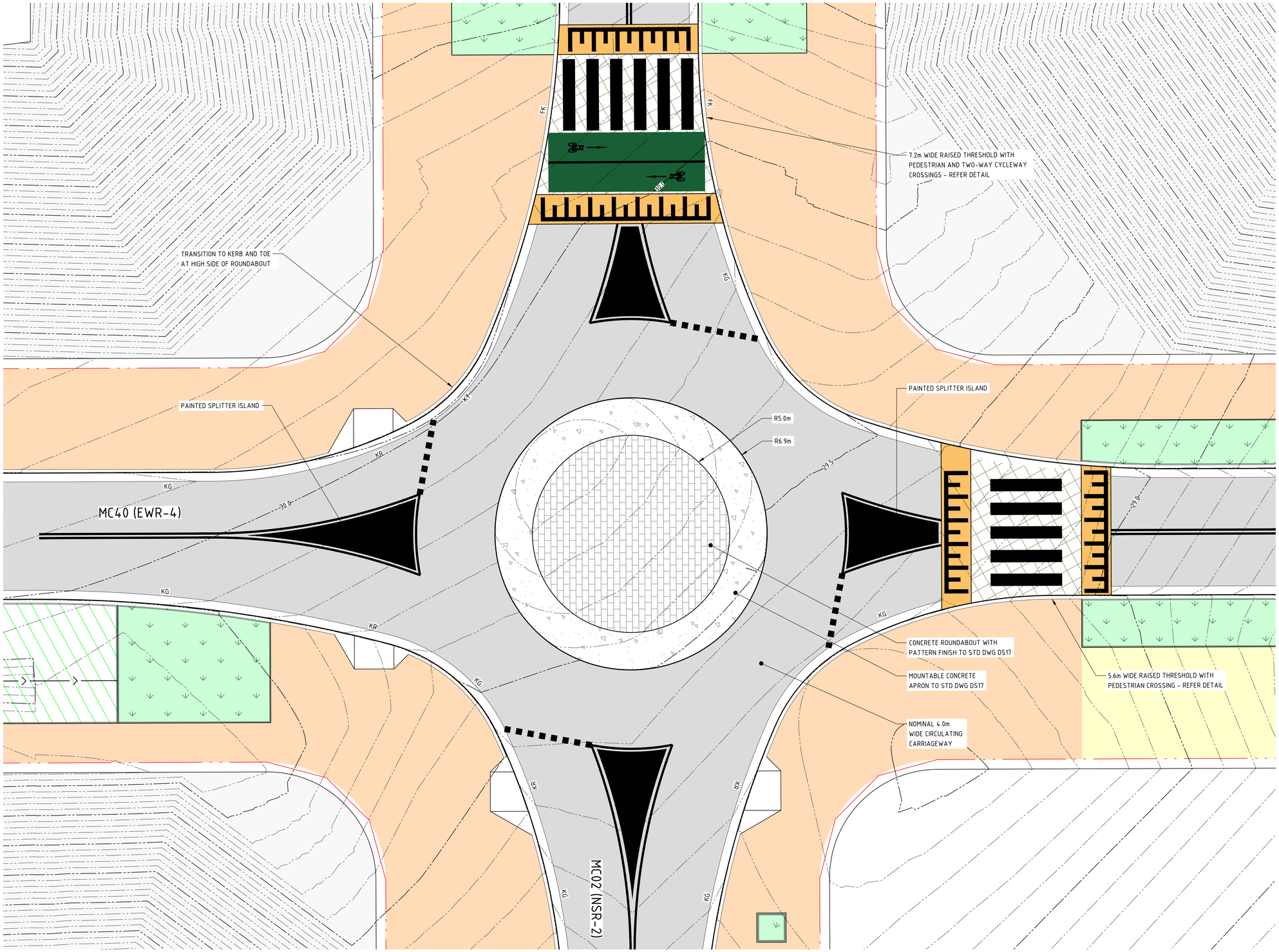
**BASIN SECTIONS SHEET 02**

JOB NUMBER **150077-60**

DRAWING NUMBER **C05.72** REVISION **08**

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:08:07 AM - By: Brian Mazza - File Name: J:\150077-60 Melrose Park Infrastructure DA - 2021\10-Drawings\Civil\150077-60 CAD\01 DA\150077-60_C05.71.dwg




## LEGEND

- PROPOSED BOUNDARY LINE
- PROPOSED KERB
- KG KERB AND GUTTER
- KT KERB AND TOE
- DD DISH DRAIN
- FK FLUSH KERB
- KR KERB RAMP
- XX.XX CONTOURS
- FLEXIBLE ROAD PAVEMENT
- GRANITE SETTS (PARKING LANE/SHARED ZONE)
- CONCRETE FOOTPATH
- CONCRETE PAVEMENT WITH HIGHLIGHTS AS DIRECTED BY COUNCIL
- ASPHALT CYCLEWAY TO MELROSE PARK PUBLIC DOMAIN GUIDELINES
- CONCRETE ROUNDABOUT TO STD DWG DS17 (ANNULUS)
- CONCRETE ROUNDABOUT WITH PATTERN FINISH TO STD DWG DS17
- CONCRETE THRESHOLD RAMP
- PAVED RAISED THRESHOLD/CROSSING
- LANDSCAPING - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- TREE PIT - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- LANDSCAPED SWALE

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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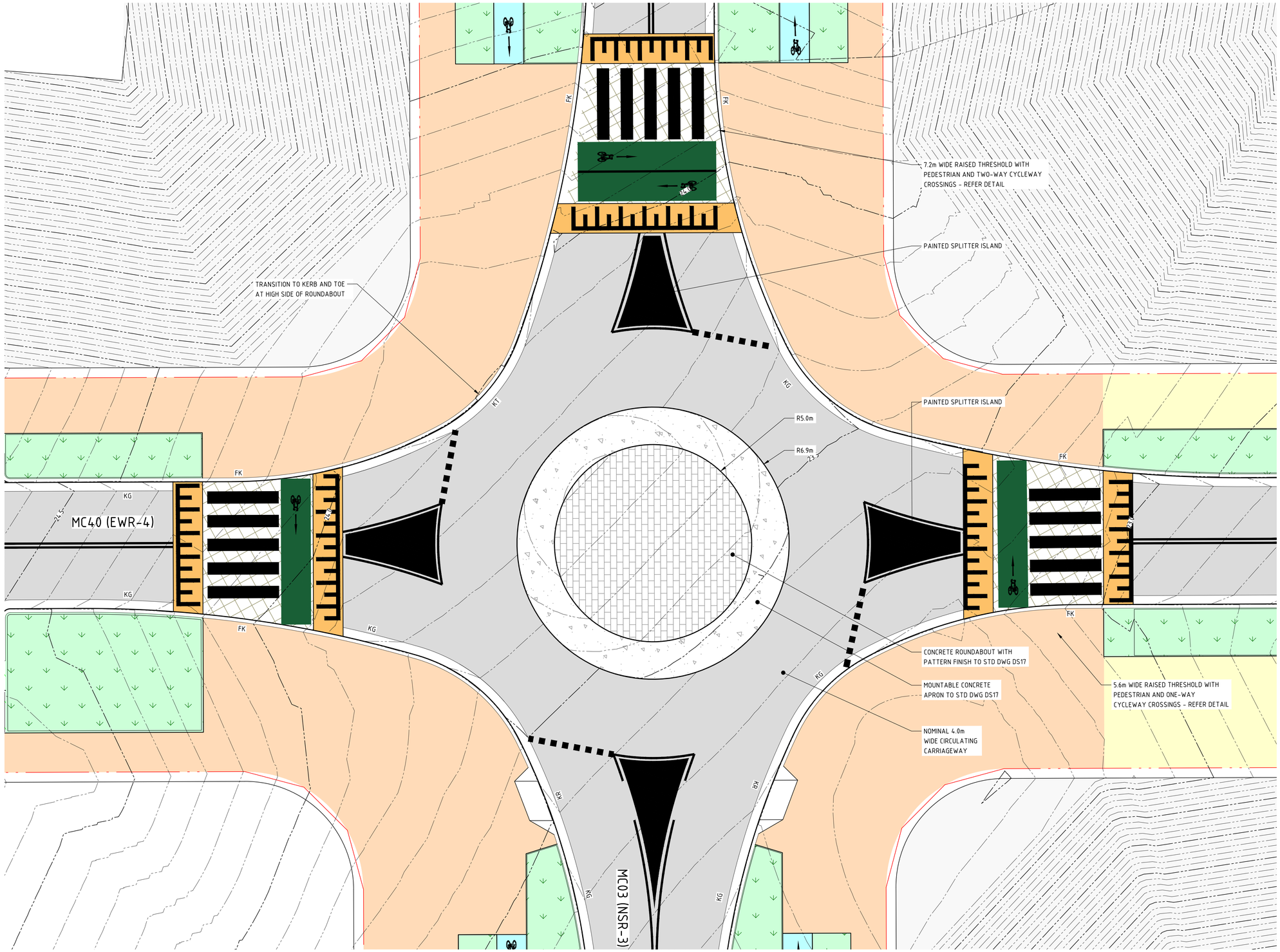
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

INTERSECTION LAYOUT PLAN - SHEET 01

JOB NUMBER 150077-60
DRAWING NUMBER C06.01
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 14/02/2023 10:00:17 AM - Melrose Park Infrastructure DA - 2021\DA Drawings\Civil\150077-60 CAD\DS17 DWG\150077-60_C06.01.dwg




## LEGEND

- PROPOSED BOUNDARY LINE
- PROPOSED KERB
- KG KERB AND GUTTER
- KT KERB AND TOE
- DD DISH DRAIN
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- TREE PIT - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- LANDSCAPED SWALE

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DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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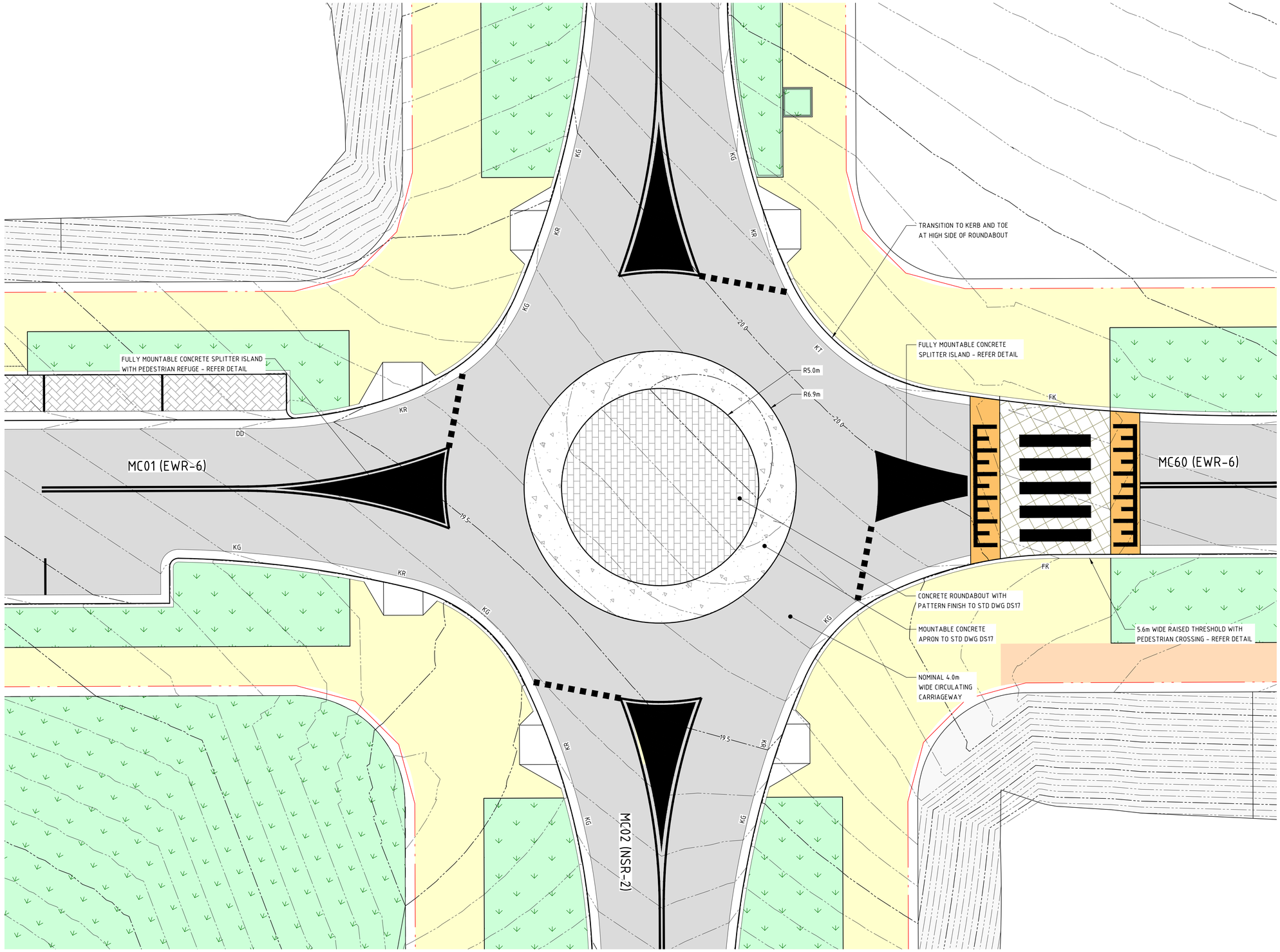
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
INTERSECTION LAYOUT PLAN - SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C06.02
REVISION 06
DRAWING SHEET SIZE = A1




## LEGEND

- PROPOSED BOUNDARY LINE
- PROPOSED KERB
- KG KERB AND GUTTER
- KT KERB AND TOE
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- TREE PIT - REFER LANDSCAPE ARCHITECT'S DRAWINGS FOR DETAILS
- LANDSCAPED SWALE

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT
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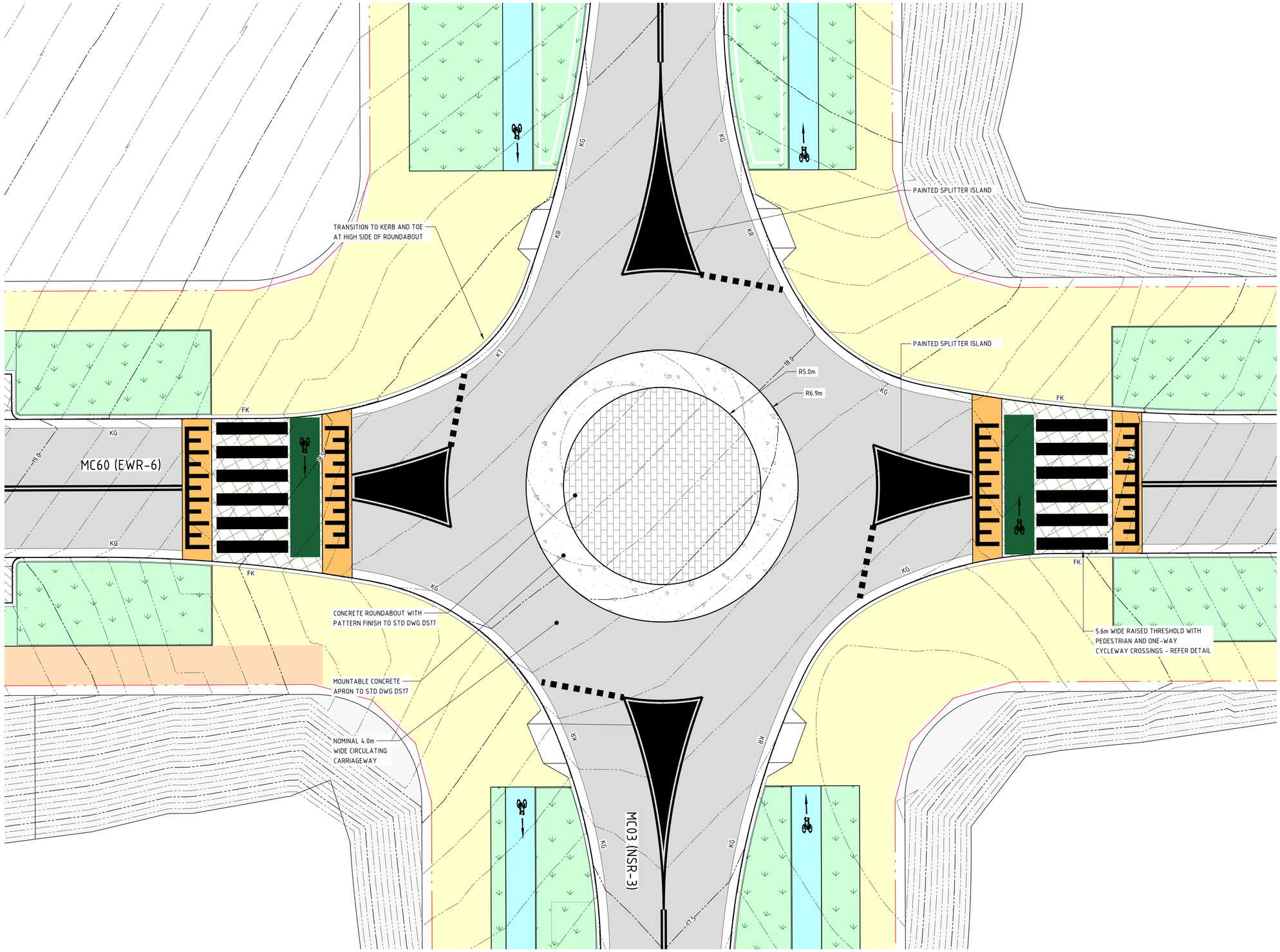
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
INTERSECTION LAYOUT PLAN - SHEET 03

JOB NUMBER 150077-60
DRAWING NUMBER C06.03
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 19 October 2023 8:00:27 AM - Melrose Park Infrastructure DA - 2021\150077\Design\Civil\150077-60-CAD-INTERSECTION-C06.03.dwg




## LEGEND

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- LANDSCAPED SWALE

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DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

INTERSECTION LAYOUT PLAN - SHEET 04

JOB NUMBER 150077-60
DRAWING NUMBER C06.04
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 7:39:07 AM | By: Andrew Rivett
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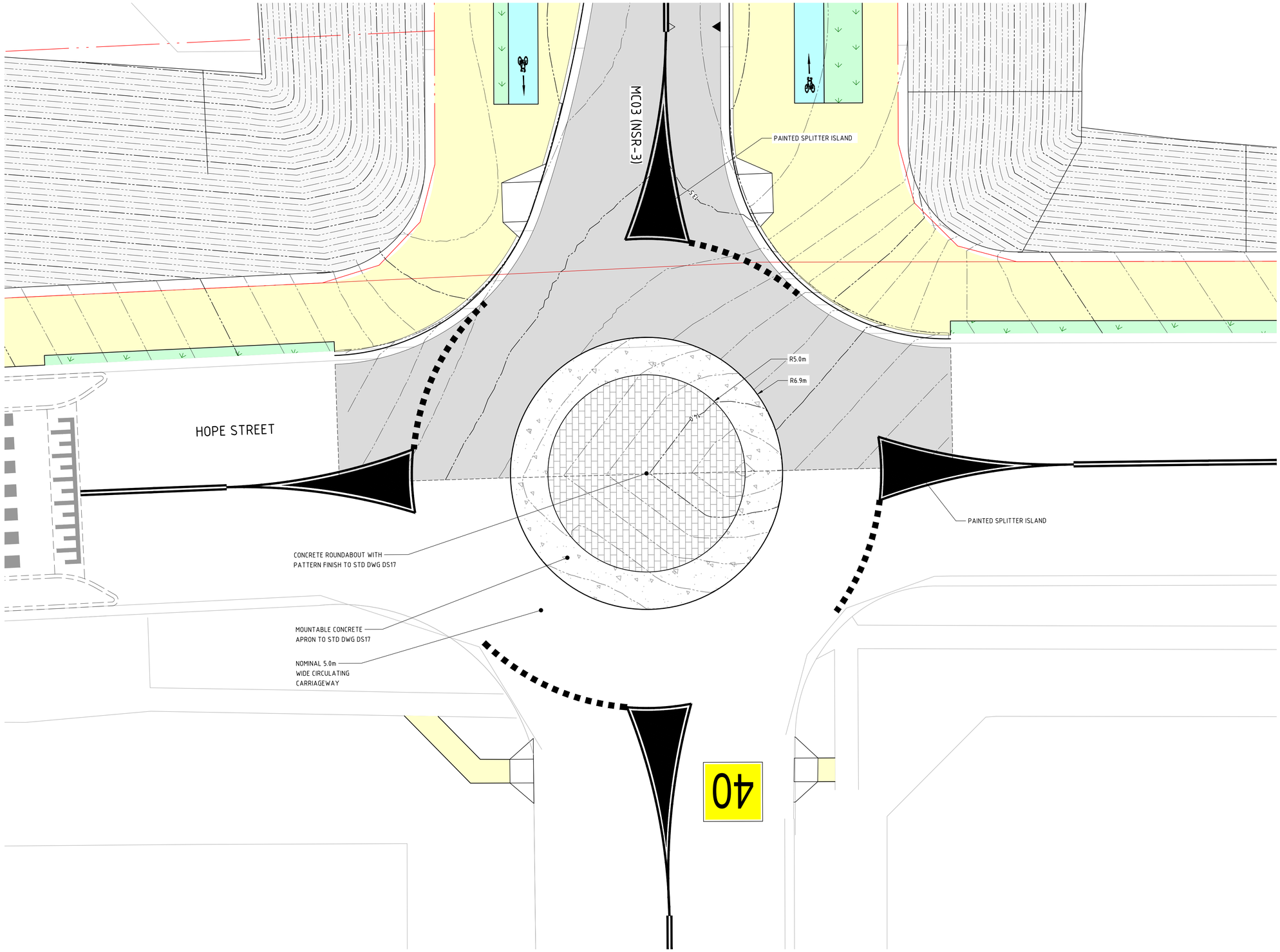


## LEGEND

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PROJECT: MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE: CIVIL ENGINEERING PACKAGE

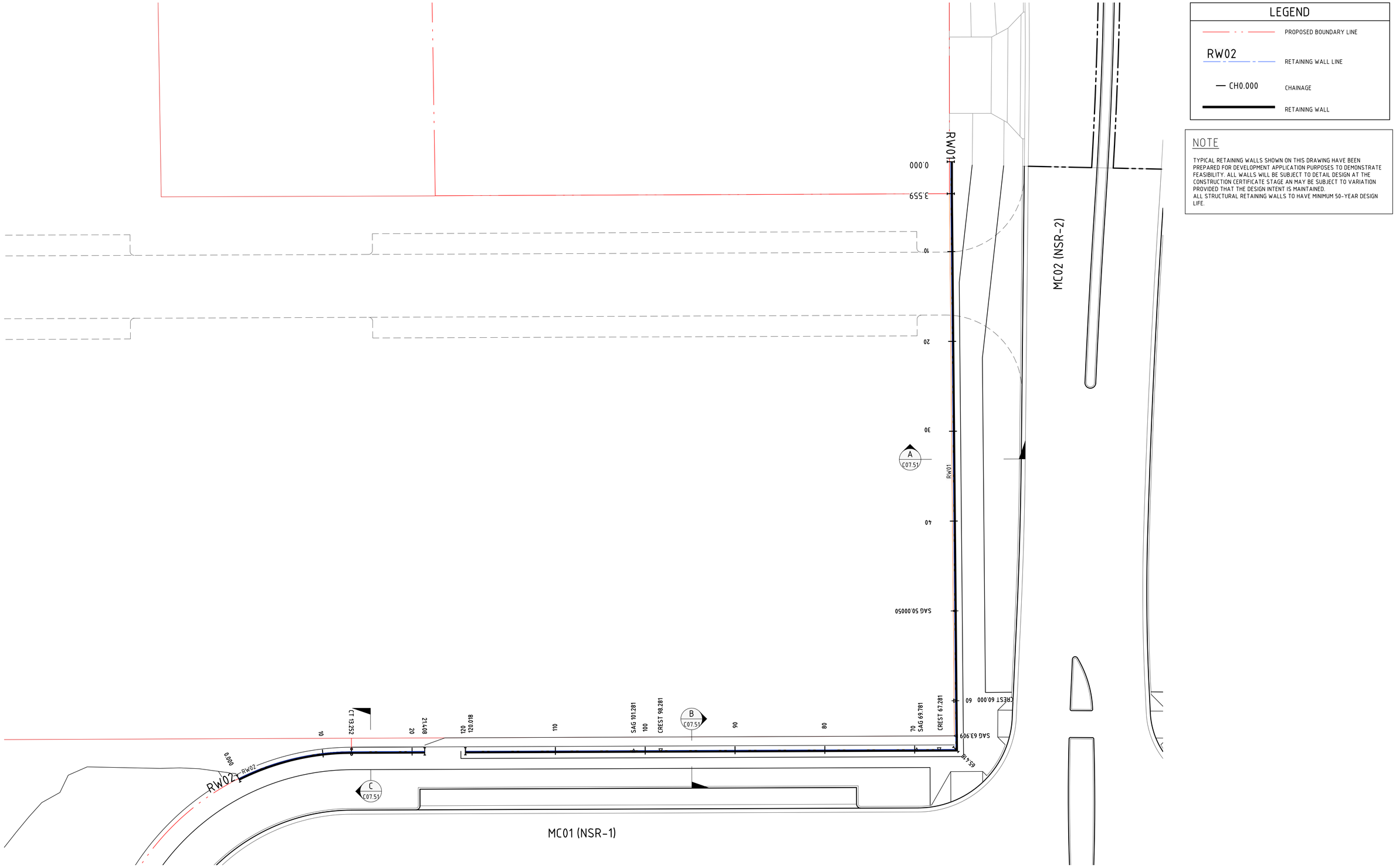
INTERSECTION LAYOUT PLAN - SHEET 05

JOB NUMBER: 150077-60

DRAWING NUMBER: C06.05 REVISION: 01

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 10:07:10 AM By: Brendan Mazza File Name: J:\150077-60 Melrose Park Infrastructure DA - 2021\10-Drawings\CC\civil\150077-60 CADD\150077-60_C06.01.dwg




JOB MANAGER: P.SUTTON VERIFIER: -

DESIGNED: A.RIVETT

DRAWN: B.MAZZA

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**RETAINING WALL ALIGNMENT CONTROL PLAN SHEET 01**

JOB NUMBER **150077-60**

DRAWING NUMBER **C07.01** REVISION **07**

DRAWING SHEET SIZE = A1

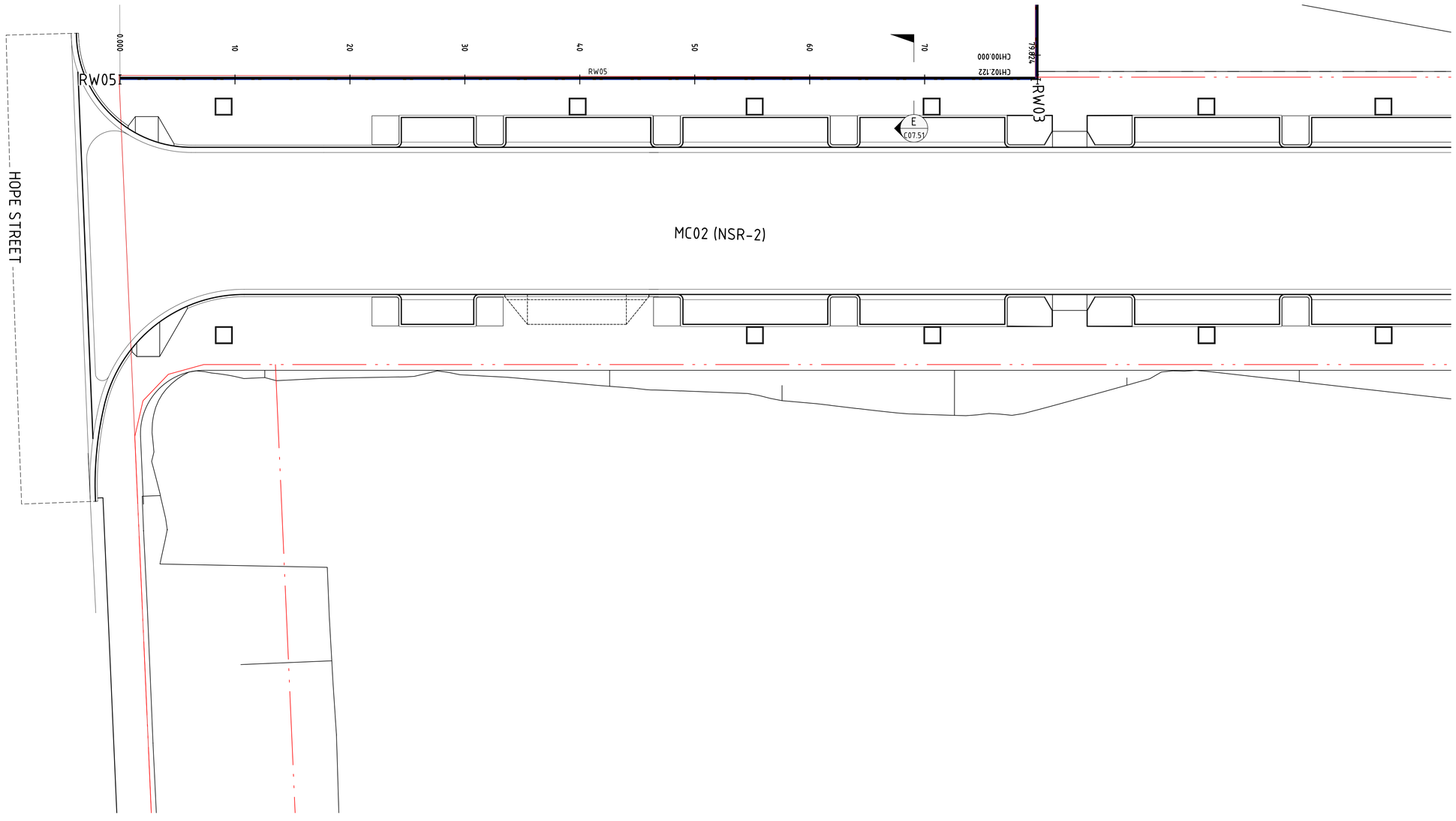
Plotted: 06 Oct 2023 08:07:07 AM - Melrose Park Infrastructure DA - 2021/1/drawings/civil/C07.01 - RETAINING WALL ALIGNMENT CONTROL PLAN SHEET 01.dwg

## LEGEND

- PROPOSED BOUNDARY LINE
- RW02 — RETAINING WALL LINE
- CH0.000 — CHAINAGE
- RETAINING WALL

## NOTE

TYPICAL RETAINING WALLS SHOWN ON THIS DRAWING HAVE BEEN PREPARED FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY. ALL WALLS WILL BE SUBJECT TO DETAIL DESIGN AT THE CONSTRUCTION CERTIFICATE STAGE AN MAY BE SUBJECT TO VARIATION PROVIDED THAT THE DESIGN INTENT IS MAINTAINED.
ALL STRUCTURAL RETAINING WALLS TO HAVE MINIMUM 50-YEAR DESIGN LIFE.




DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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SCALE 1:200@ A1 (0 2 4 6 8 10m)

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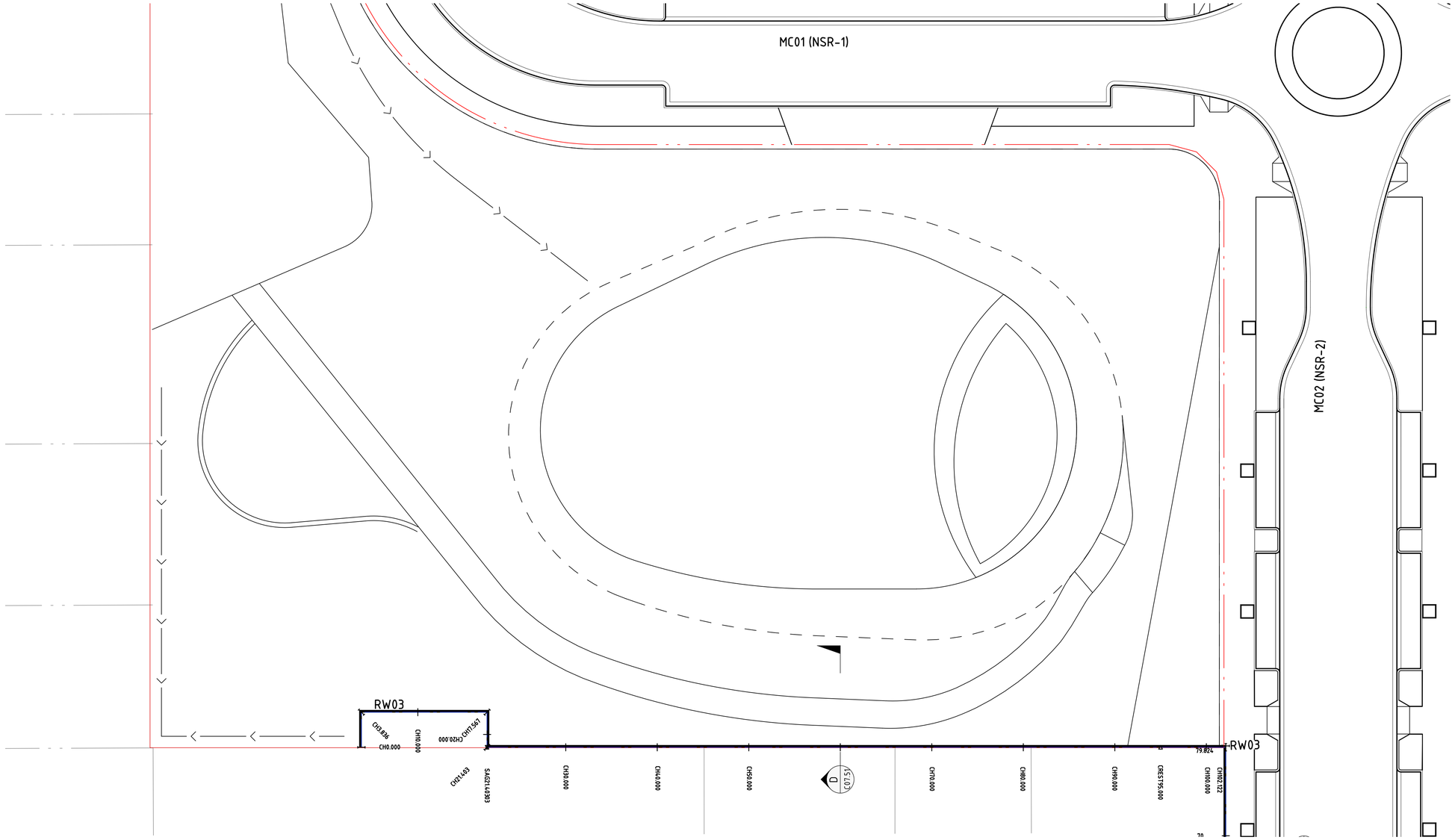
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
RETAINING WALL ALIGNMENT CONTROL PLAN SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C07.02
REVISION 08
DRAWING SHEET SIZE = A1

Plotted: 7th Oct 2023 at 10:07:07 AM - Melrose Park Infrastructure DA - 2021/0/drawings/civil/150077-60 CAD/01 DA/150077-60_C07.02.dwg




## LEGEND

- PROPOSED BOUNDARY LINE
- RW02 — RETAINING WALL LINE
- CH0.000 — CHAINAGE
- RETAINING WALL

## NOTE

TYPICAL RETAINING WALLS SHOWN ON THIS DRAWING HAVE BEEN PREPARED FOR DEVELOPMENT APPLICATION PURPOSES TO DEMONSTRATE FEASIBILITY. ALL WALLS WILL BE SUBJECT TO DETAIL DESIGN AT THE CONSTRUCTION CERTIFICATE STAGE AN MAY BE SUBJECT TO VARIATION PROVIDED THAT THE DESIGN INTENT IS MAINTAINED.
ALL STRUCTURAL RETAINING WALLS TO HAVE MINIMUM 50-YEAR DESIGN LIFE.

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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SCALE 1:250@ A1
0 2 4 6 8 10 12m

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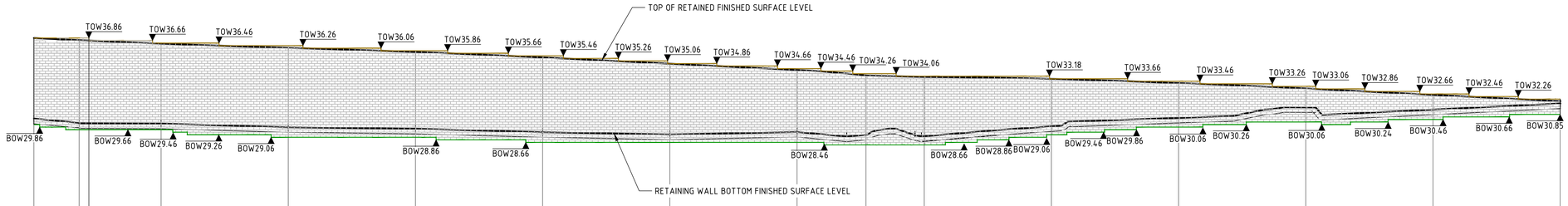
PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**RETAINING WALL ALIGNMENT CONTROL PLAN SHEET 03**

JOB NUMBER **150077-60**
DRAWING NUMBER **C07.03**
REVISION **08**
DRAWING SHEET SIZE = A1

Plotted: 7th Oct 2023 at 10:07:17 AM | Plotted By: Brandon Mazza
File Name: J:\150077-60 Melrose Park Infrastructure DA - 2023\03 Drawings\01 Civil\150077-60 C07.03 RETAINING WALL ALIGNMENT CONTROL PLAN SHEET 03.dwg

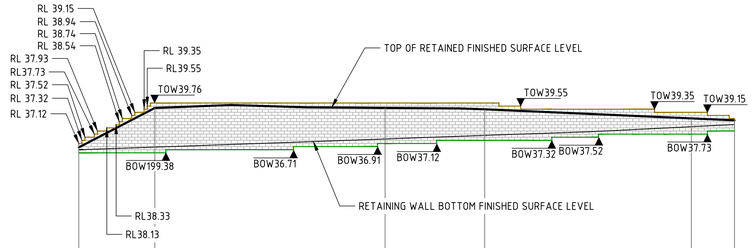



DATUM RL18

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HEIGHT (FSL-FSL) | 6.38 | 6.54 | 6.29 | 6.24 | 6.04 | 5.87 | 5.57 | 4.87 | 4.65 | 4.67 | 3.73 | 2.73 | 1.49 | 1.16 | 0.18 |
| RETAINING WALL TOP FSL | 36.86 | 36.69 | 36.42 | 36.09 | 35.76 | 35.33 | 34.84 | 34.35 | 33.91 | 33.81 | 33.65 | 33.31 | 32.89 | 32.39 | 31.89 |
| RETAINING WALL BOTTOM FSL | 30.48 | 30.15 | 30.13 | 29.85 | 29.73 | 29.46 | 29.27 | 29.48 | 29.25 | 29.14 | 29.92 | 30.58 | 31.41 | 31.23 | 31.71 |
| CHAINAGE | 0.00 | 3.56 | 10.00 | 20.00 | 30.00 | 40.00 | 50.00 | 60.00 | 65.42 | 70.00 | 80.00 | 90.00 | 100.00 | 110.00 | 120.00 |

## ELEVATION - RW01

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:200@A1




DATUM RL25

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| HEIGHT (FSL-FSL) | 0.08 | 1.28 | 1.01 | 0.85 | 0.27 | 0.14 | |
| RETAINING WALL TOP FSL | 30.93 | 32.22 | 32.22 | 32.17 | 31.88 | 31.81 | |
| RETAINING WALL BOTTOM FSL | 30.85 | 30.94 | 31.20 | 31.32 | 31.61 | 31.68 | |
| CHAINAGE | 0.00 | 2.48 | 10.00 | 13.25 | 20.00 | 21.41 | |

## ELEVATION - RW02

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:200@A1

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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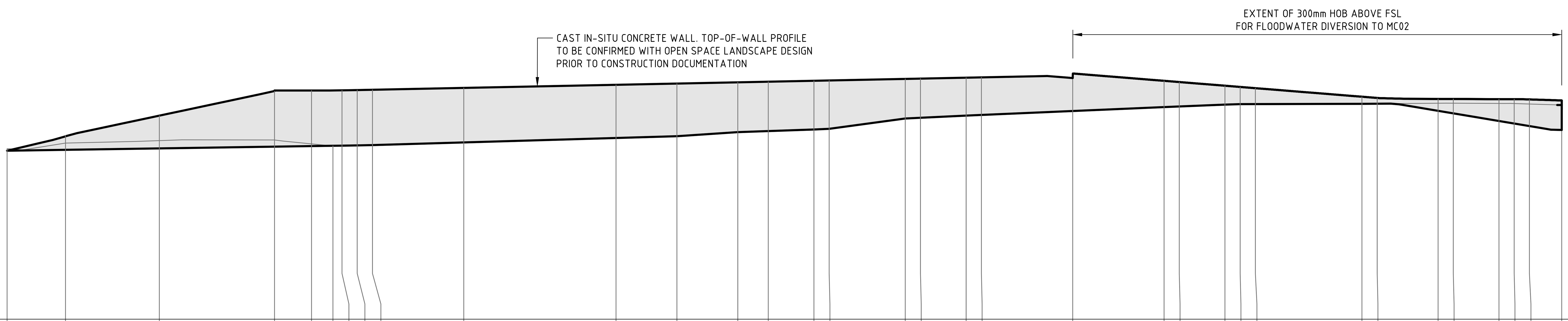
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
RETAINING WALL LONGITUDINAL SECTION SHEET 01

JOB NUMBER 150077-60
DRAWING NUMBER C07.21
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 2:08:57 PM By: Bill Mazza Path: N:\Jobs\150077-60 Melrose Park Infrastructure DA - 2021\10 Drawings\2D-Civil\150077-60 CADD FILES\150077-60_C07.21.dwg




DATUM RL3

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | 14.179 | 14.552 | 14.713 | 14.757 | 14.497 | 14.376 | 14.384 | 14.399 | 14.421 | 14.595 | 14.885 |
| HEIGHT (FSL-FSL) | -0.00 | 0.93 | 2.15 | 3.64 | 3.65 | | 3.62 | 3.63 | 3.63 | 3.58 | 3.49 |
| RETAINING WALL TOP FSL | 14.05 | 15.04 | 16.35 | 17.96 | 18.00 | | 18.01 | 18.03 | 18.05 | 18.17 | 18.37 |
| RETAINING WALL BOTTOM FSL | 14.05 | 14.11 | 14.20 | 14.32 | 14.35 | 14.38 | 14.38 | 14.40 | 14.42 | 14.59 | 14.89 |
| CHAINAGE | 0.00 | 3.84 | 10.00 | 17.57 | 20.00 | 21.40 | 22.00 | 23.00 | 24.00 | 30.00 | 40.00 |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | 15.002 | 15.27 | 15.339 | 15.442 | 15.486 | 16.166 | 16.213 | 16.354 | 16.397 | 16.655 | 16.912 |
| HEIGHT (FSL-FSL) | 3.45 | 3.27 | 3.24 | 3.20 | 3.17 | 2.60 | 2.57 | 2.49 | 2.47 | 2.46 | 1.72 |
| RETAINING WALL TOP FSL | 18.46 | 18.54 | 18.58 | 18.64 | 18.66 | 18.76 | 18.78 | 18.84 | 18.86 | 19.12 | 18.63 |
| RETAINING WALL BOTTOM FSL | 15.00 | 15.27 | 15.34 | 15.44 | 15.49 | 16.17 | 16.21 | 16.35 | 16.40 | 16.65 | 16.91 |
| CHAINAGE | 44.00 | 48.00 | 50.00 | 53.00 | 54.00 | 59.00 | 60.00 | 63.00 | 64.00 | 70.00 | 76.00 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXISTING SURFACE | 16.955 | 17.077 | 17.107 | 17.11 | 17.128 | 17.132 | 17.165 | 17.167 | 17.152 | 17.144 | 17.113 | 17.048 |
| HEIGHT (FSL-FSL) | 1.60 | 1.24 | 1.13 | 1.04 | 0.46 | 0.38 | 0.80 | 0.97 | 1.45 | 1.61 | 1.75 | 1.94 |
| RETAINING WALL TOP FSL | 18.55 | 18.31 | 18.23 | 18.15 | 17.59 | 17.51 | 17.47 | 17.47 | 17.45 | 1744 | 17.41 | 17.35 |
| RETAINING WALL BOTTOM FSL | 16.95 | 17.08 | 17.11 | 17.11 | 17.13 | 17.13 | 16.67 | 16.50 | 16.00 | 15.83 | 15.67 | 15.41 |
| CHAINAGE | 77.00 | 80.00 | 81.00 | 82.00 | 89.00 | 90.00 | 94.00 | 95.00 | 98.00 | 99.00 | 100.00 | 102.12 |

SCALE 1:200 HORIZ 1:200 VERT

## ELEVATION - RW03

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 16.02.23 |
| 08 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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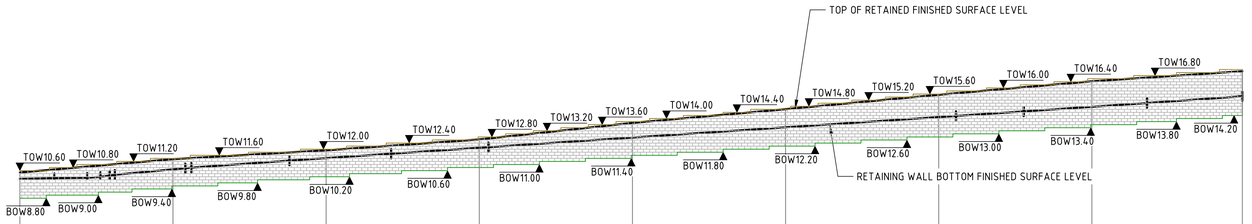
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
RETAINING WALL LONGITUDINAL SECTION SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C07.22
REVISION 08
DRAWING SHEET SIZE = A1

Found : R:\2015 Jobs\150077-60 - Melrose Park Infrastructure DA - 2021\D-Drawings\C-Civil\150077- 60 CAD\01-DA\150077-60_C07.21.dwg




DATUM RL-1

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| HEIGHT (FSL-FSL) | 0.42 | 0.67 | 0.51 | 0.54 | 0.95 | 1.18 | 1.46 | 1.66 | 1.63 |
| RETAINING WALL TOP FSL | 10.43 | 11.30 | 11.88 | 12.58 | 13.67 | 14.56 | 15.51 | 16.38 | 17.04 |
| RETAINING WALL BOTTOM FSL | 10.01 | 10.64 | 11.37 | 12.04 | 12.71 | 13.38 | 14.05 | 14.72 | 15.41 |
| CHAINAGE | 0.00 | 10.00 | 20.00 | 30.00 | 40.00 | 50.00 | 60.00 | 70.00 | 79.82 |

SCALE 1:200 HORIZ 1:200 VERT

# ELEVATION - RW05

HORIZONTAL SCALE 1:200@A1
VERTICAL SCALE 1:200@A1

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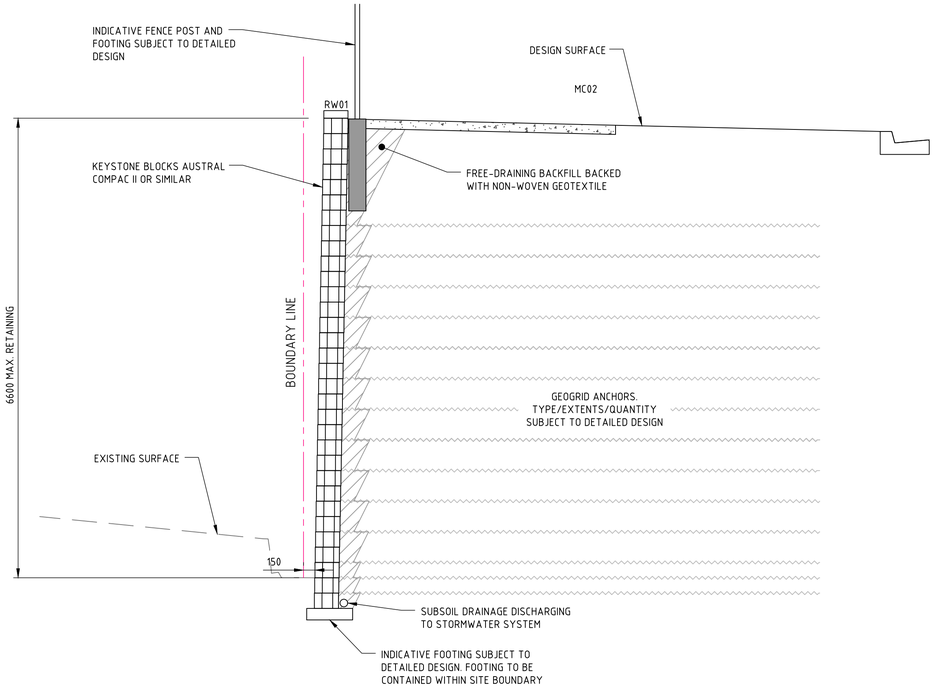
PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**RETAINING WALL LONGITUDINAL SECTION SHEET 03**

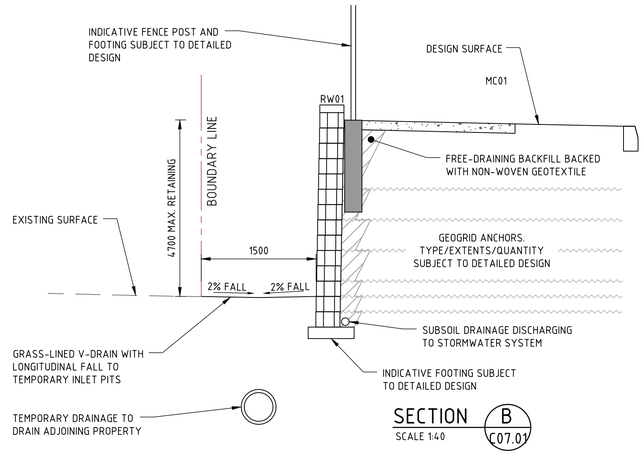
JOB NUMBER **150077-60**
DRAWING NUMBER **C07.23**
REVISION **06**
DRAWING SHEET SIZE = A1

Plotted: 6 Oct 2023 @ 08:07:40 - Melrose Park Infrastructure DA - 2021\0-Drawings\C-Civil\150077-60 CADD\15-DA\150077-60_C07.23.dwg



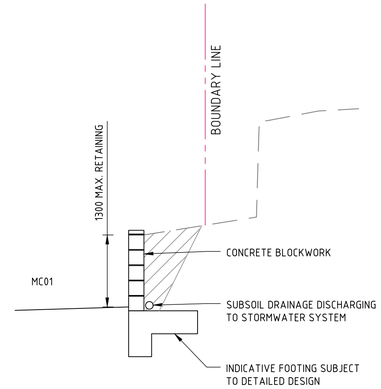

SECTION A
SCALE 1:40 C07.01

## RETAINING WALL RW01
KEYSTONE RETAINING WALL WITH GEOGRID ANCHORS



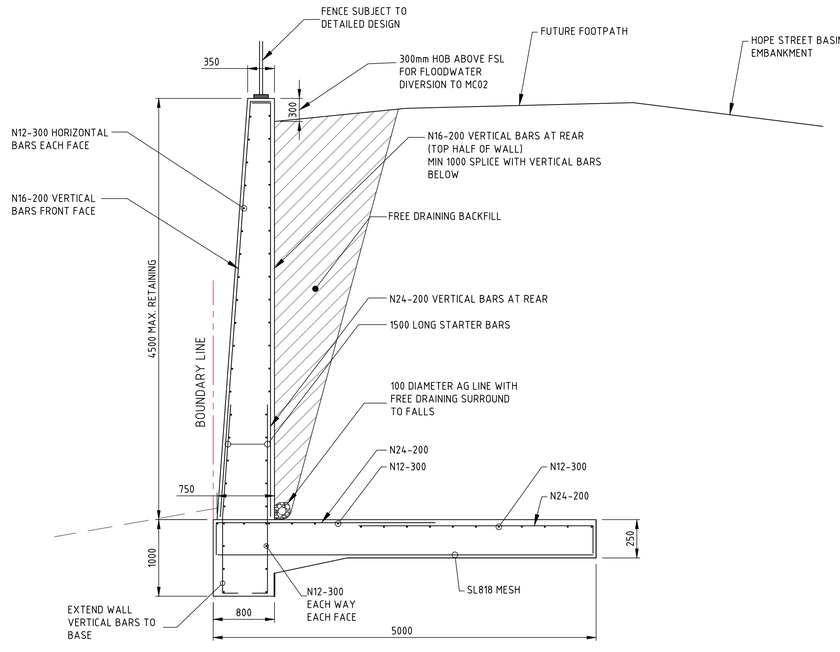

SECTION B
SCALE 1:40 C07.01

## RETAINING WALL RW01
KEYSTONE RETAINING WALL WITH GEOGRID ANCHORS



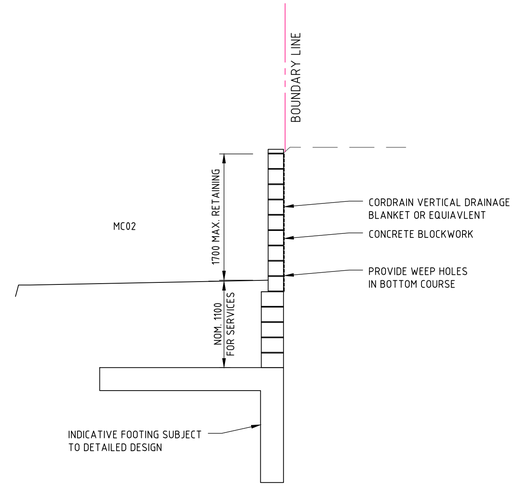

SECTION C
SCALE 1:40 C07.01

## RETAINING WALL RW02
CONCRETE BLOCKWORK RETAINING WALL




SECTION D
SCALE 1:40 C07.03

## RETAINING WALL RW03
CAST IN-SITU CONCRETE RETAINING WALL
DESIGN LIFE 50 YEARS




SECTION E
SCALE 1:40 C07.02

## RETAINING WALL RW05
CONCRETE BLOCKWORK RETAINING WALL

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ALL STRUCTURAL RETAINING WALLS TO HAVE MINIMUM 50-YEAR DESIGN LIFE.

DRAWN: B.MAZZA DESIGNED: ARIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 05 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 06 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 07 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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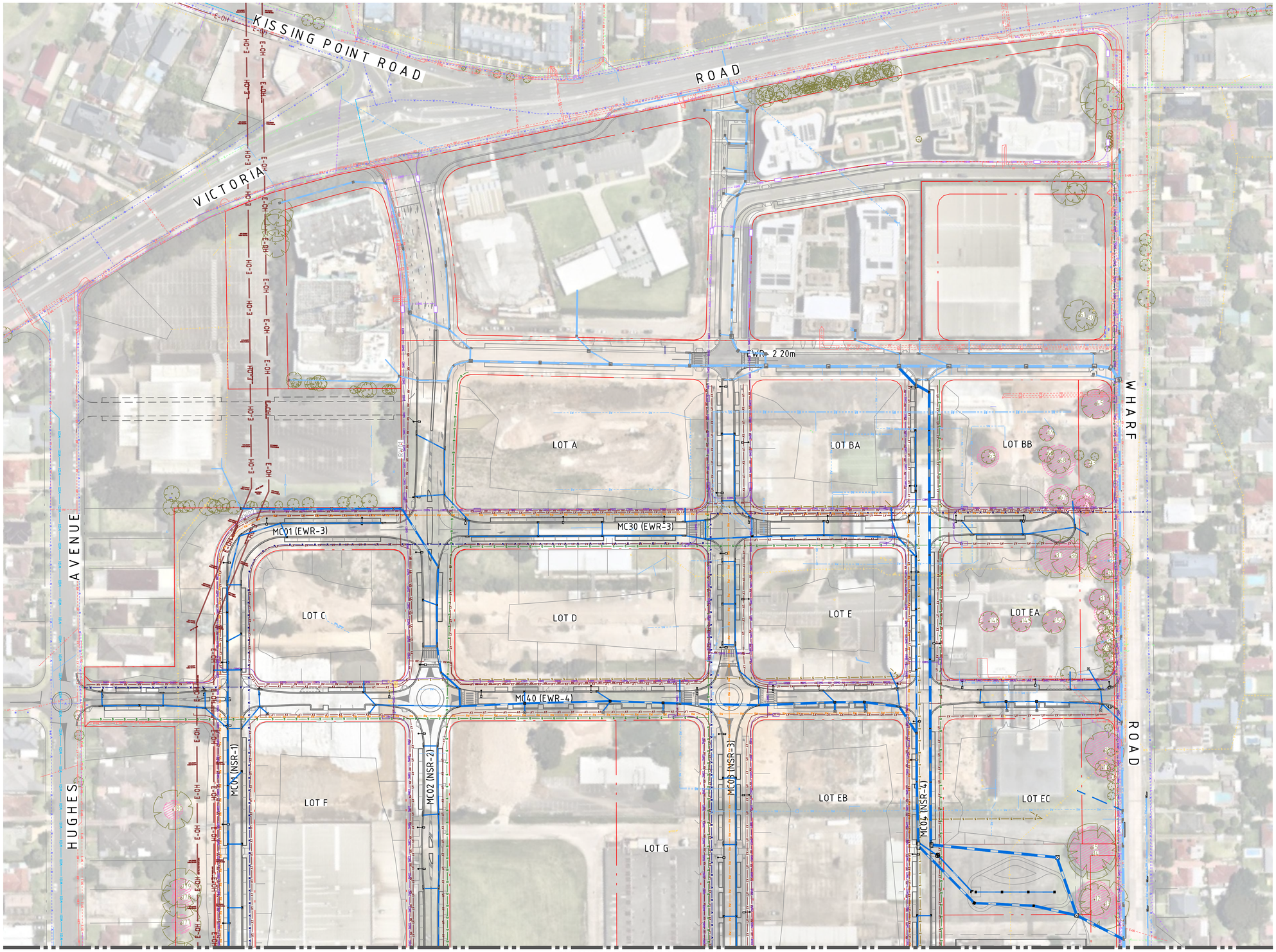
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
RETAINING WALL TYPICAL SECTIONS

JOB NUMBER 150077-60
DRAWING NUMBER C07.51
REVISION 08
DRAWING SHEET SIZE = A1

Plotted: 14/02/2023 10:08:07 AM By: Brianna Mazza File Name: C:\Users\bmazza\Northrop\Melrose Park Infrastructure DA - 150077\Drawings\Civil\150077-60 CAD\SHEETS\150077-60_C07.51.dwg




## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- G — EXISTING GAS
- T — EXISTING TELSTRA
- W — EXISTING WATER
- W(D) — EXISTING WATER (DISCONNECTED)
- SW — EXISTING STORMWATER
- E-UG — EXISTING ELECTRICITY (UNDERGROUND)
- E-OH — EXISTING ELECTRICITY (OVERHEAD)
- O — EXISTING OPTUS
- COMS — EXISTING TELECOMMUNICATIONS
- SW — EXISTING STORMWATER
- OIL — EXISTING OIL LINE
- G — PROPOSED GAS
- LV — PROPOSED ELECTRICITY (LOW VOLTAGE)
- HV — PROPOSED ELECTRICITY (HIGH VOLTAGE)
- S — PROPOSED SEWER
- RW — PROPOSED RECYCLED WATER
- PROPOSED LIGHTPOLES
- PROPOSED STORMWATER
- EXISTING STORMWATER

FOR CONTINUATION REFER TO SHEET 02

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

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| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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0 10 20 30 40 50m

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PROJECT
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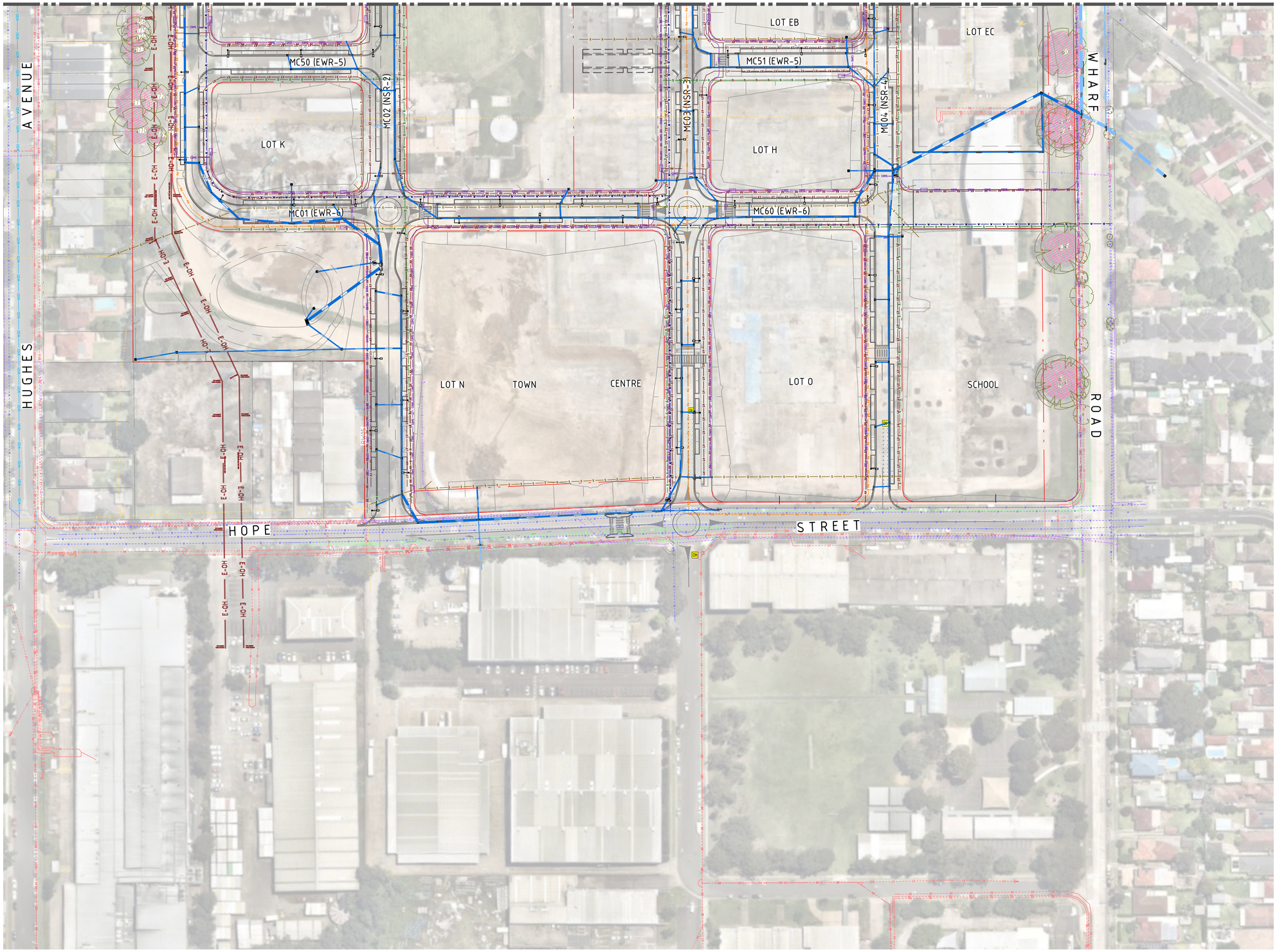
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SERVICES COORDINATION PLAN
SHEET 01

JOB NUMBER 150077-60
DRAWING NUMBER C08.01
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:08:07 AM | By: Andrew Rivett | File: R:\150077-60\Civil\Drawings\DA Drawings\150077-60 C08.01 Melrose Park Infrastructure DA - 20231010.dwg

FOR CONTINUATION REFER TO SHEET 01




## LEGEND

- PROPOSED BOUNDARY LINE
- EXISTING BOUNDARY LINE
- PROPOSED KERB
- EXISTING KERB
- FUTURE KERB
- G — EXISTING GAS
- T — EXISTING TELSTRA
- W — EXISTING WATER
- W(D) — EXISTING WATER (DISCONNECTED)
- SW — EXISTING STORMWATER
- E-UG — EXISTING ELECTRICITY (UNDERGROUND)
- E-OH — EXISTING ELECTRICITY (OVERHEAD)
- O — EXISTING OPTUS
- COMS — EXISTING TELECOMMUNICATIONS
- SW — EXISTING STORMWATER
- OIL — EXISTING OIL LINE
- G — PROPOSED GAS
- LV — PROPOSED ELECTRICITY (LOW VOLTAGE)
- HV — PROPOSED ELECTRICITY (HIGH VOLTAGE)
- S — PROPOSED SEWER
- RW — PROPOSED RECYCLED WATER
- PROPOSED LIGHTPOLES
- PROPOSED STORMWATER
- EXISTING STORMWATER

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR CLIENT REVIEW | BM | | AR | 26.11.21 |
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:1000 @ A1
0 10 20 30 40 50m

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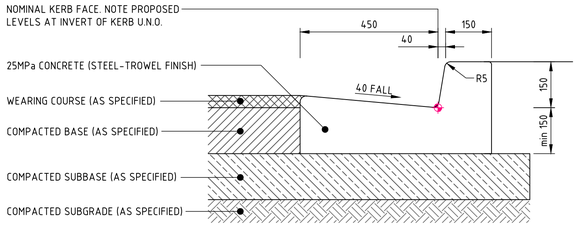
PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**SERVICES COORDINATION PLAN SHEET 02**

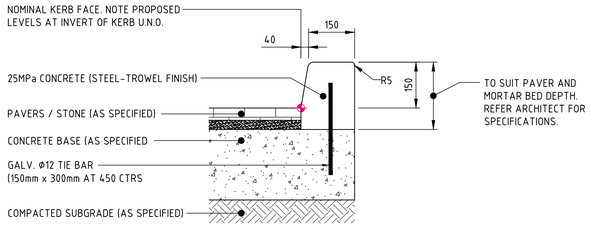
JOB NUMBER **150077-60**
DRAWING NUMBER **C08.02**
REVISION **07**
DRAWING SHEET SIZE = A1

Plotted: 14/12/2023 10:08:07 AM By: Brandon Mazza
File Name: J:\150077 Melrose Park, Wilsonton\DA - 2021\DA Drawings\Civil\150077-60 CAD\01 DWG\150077-60_C08.02.dwg



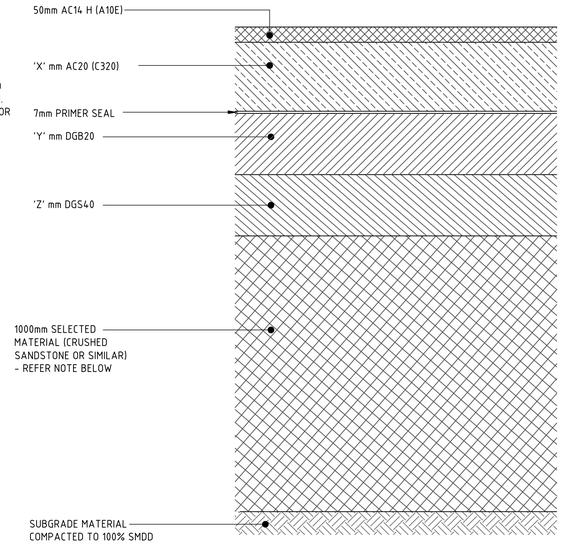

## KERB & GUTTER 'KG'

EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.




## KERB ONLY 'KO' (TIE IN)

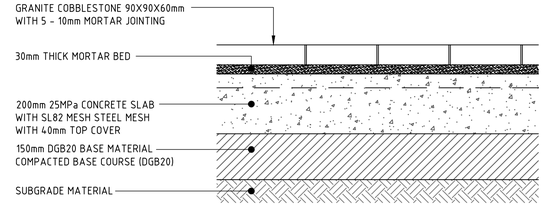
EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.




## FLEXIBLE ROAD PAVEMENT

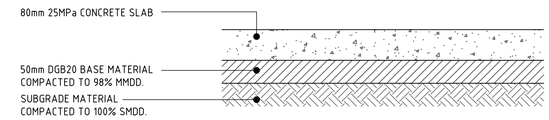
- MINIMUM CBR 1.5% (CONTRACTOR TO CONFIRM ONSITE)
- REFER PAVEMENT REPORT 34536PN2rpt BY JK GEOTECHNICS DATED 22 DECEMBER 2021 FOR FURTHER DETAILS OF PAVEMENT DESIGN AND SPECIFICATION
- DGB20 MAY BE SUBSTITUTED FOR DGS40 IN SUBBASE LAYER
- IF BEDROCK IS ENCOUNTERED WITHIN 1000mm OF THE UNDERSIDE OF DGS40 LAYER, THE DEPTH OF SELECTED MATERIAL MAY BE REDUCED TO MINIMUM 300mm
- REFER TABLE BELOW FOR PAVEMENT LAYER THICKNESSES

| ROAD NAMES | DIMENSION 'X' (mm) | DIMENSION 'y' (mm) | DIMENSION 'Z' (mm) |
|---|---|---|---|
| EWR-5 | 60 | 100 | 150 |
| NSR-1<br>EWR-3<br>EWR-4<br>EWR-6 | 70 | 100 | 140 |
| NSR-3<br>NSR-4 | 80 | 150 | 140 |
| NSR-2 | 90 | 160 | 190 |



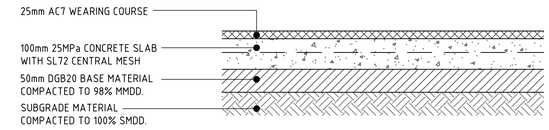

## GRANITE SETTS (PARKING LANE/SHARED ZONE)

MIN CBR 5% (CONTRACTOR TO CONFIRM ONSITE)
DESIGN LOADING = $5 \times 10^5$ ESA's



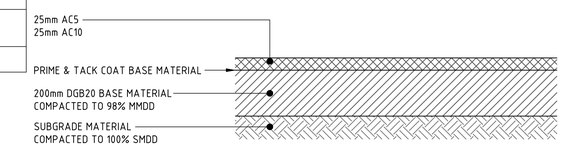

## CONCRETE FOOTPATH

MIN CBR 3% (CONTRACTOR TO CONFIRM ONSITE)



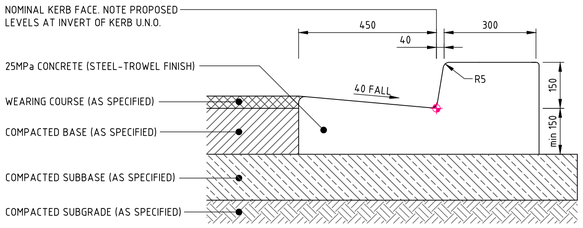

## ASPHALT CYCLEWAY TO MELROSE PARK PUBLIC DOMAIN GUIDELINES

MIN CBR 3% (CONTRACTOR TO CONFIRM ONSITE)



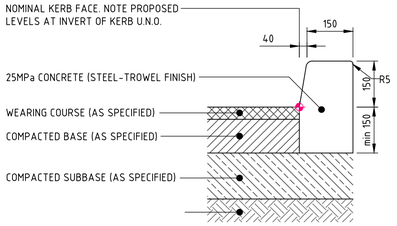

## FUTURE GAMES COURTS

MIN CBR 3% (CONTRACTOR TO CONFIRM ONSITE)



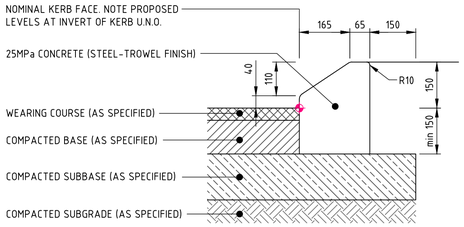

## KERB & GUTTER 'KG' WITH 300 WIDE TOP

- EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS ALL RADII TO BE 20mm U.N.O.
- KERB TO BE CASTELLATED ADJACENT SWALE - REFER TYPICAL CASTELLATED KERB DETAIL



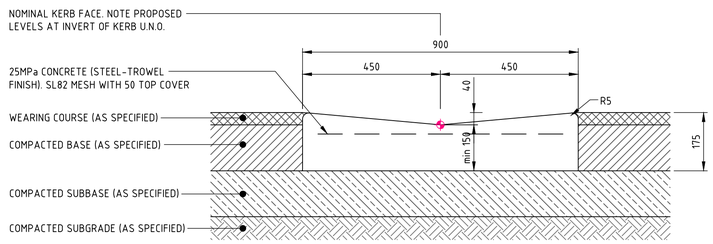

## KERB ONLY 'KO'

EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.



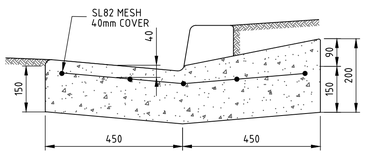

## MOUNTABLE KERB 'MK'

EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.

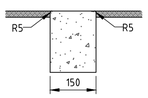



## DISH DRAIN - 900 WIDE 'DD'

EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.




## HEAVY DUTY LAYBACK




## EDGE STRIP

DESIGNED: A.RIVETT
DRAWN: B.MAZZA
JOB MANAGER: P.SUTTON
VERIFIER: -

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SCALE 1:10 @ A1
0.0 0.1 0.2 0.3 0.4 0.5m

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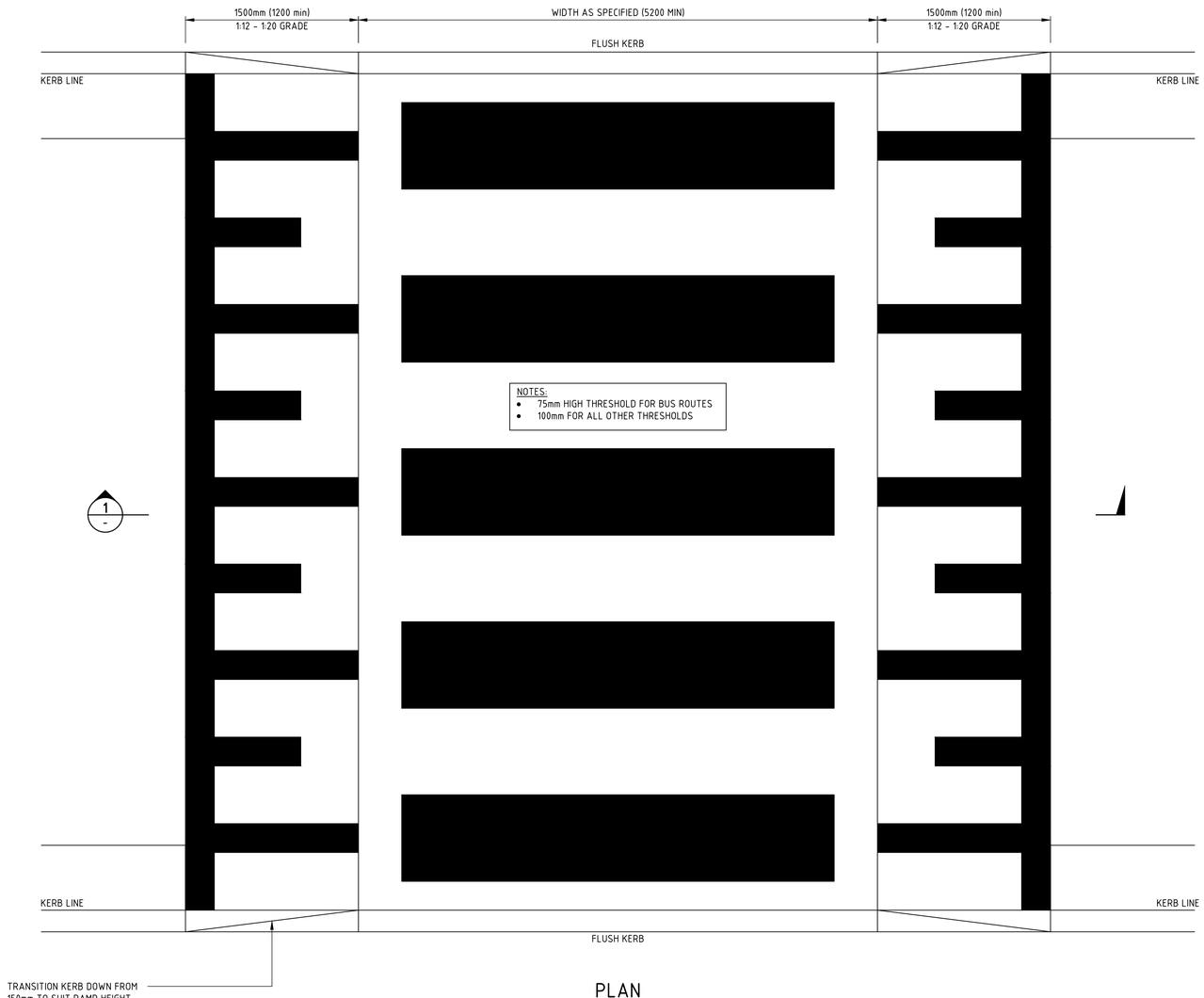
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**
**DETAILS SHEET 01**

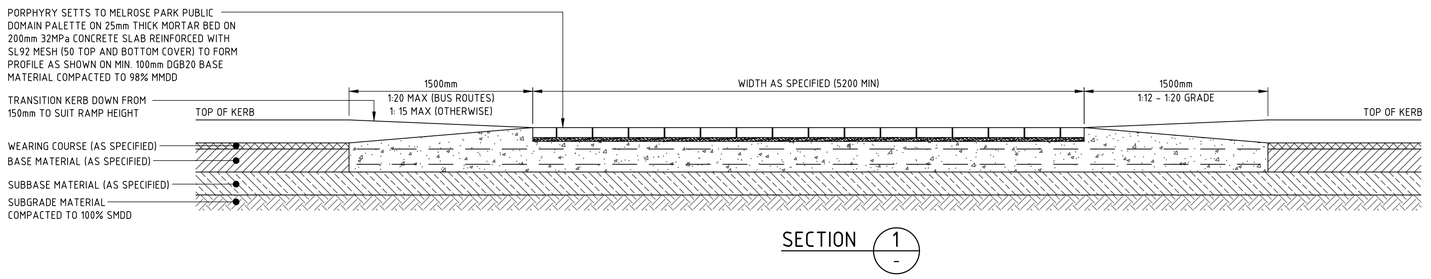
JOB NUMBER **150077-60**
DRAWING NUMBER **C09.01**
REVISION **06**
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:08:00 AM By: Brendan Mazza
File Name: P:\150077 Melrose Park Infrastructure DA - 2021\3 Drawings\Civil\150077-60 CAD\DA\150077-60_C09.01.dwg




## PLAN
## RAISED THRESHOLD / CROSSING

PROVIDE 'PIANO KEY' AND CROSSING MARKINGS AS
INDICATED ON PLAN IN ACCORDANCE WITH AS 1742




## SECTION 1 -

DESIGNED: A.RIVETT
DRAWN: B.MAZZA
JOB MANAGER: P.SUTTON
VERIFIER: -

**NOT FOR CONSTRUCTION**

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| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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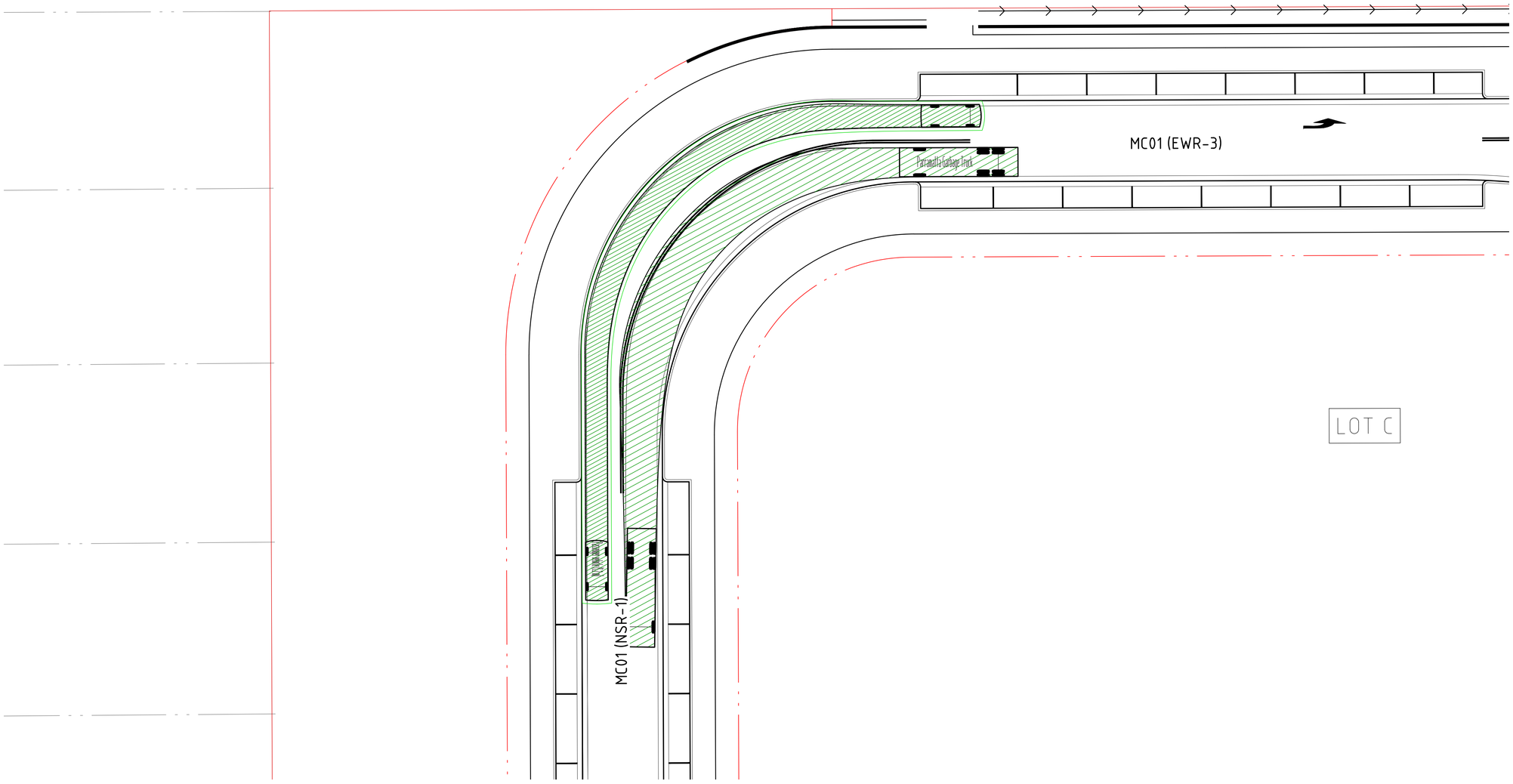
PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**DETAILS SHEET 02**

JOB NUMBER **150077-60**
DRAWING NUMBER **C09.02**
REVISION **06**
DRAWING SHEET SIZE = A1

Plotted: 7 Nov 2023 at 10:07:07 - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\STD\STD150077-60_C09.01.dwg




## VEHICLE MOVEMENTS

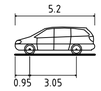
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

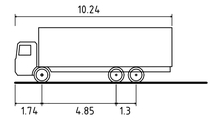
## VEHICLE PROFILE




PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




PARRAMATTA GARBAGE TRUCK (10.24 m)

| | |
|---|---|
| OVERALL LENGTH | 10.240m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.490m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

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| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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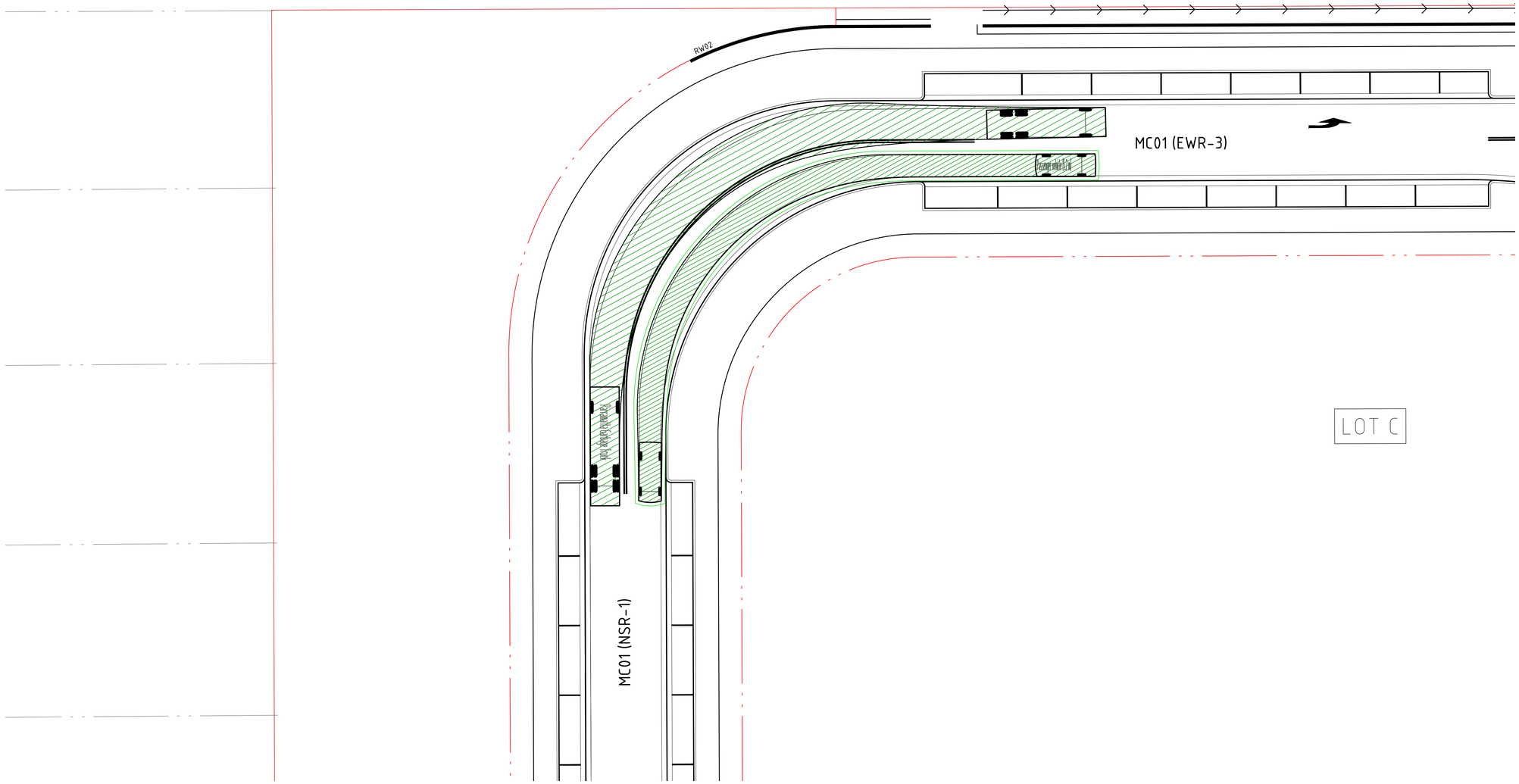
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 01

JOB NUMBER 150077-60
DRAWING NUMBER C10.01
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 7:50:37 AM - Melrose Park Infrastructure DA - 150770-Drawings\Civil\150077-60 CAD\01-CAD\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

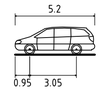
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

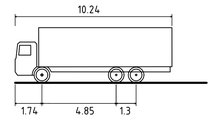
## VEHICLE PROFILE




PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




PARRAMATTA GARBAGE TRUCK (10.24 m)

| | |
|---|---|
| OVERALL LENGTH | 10.240m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.490m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

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PROJECT
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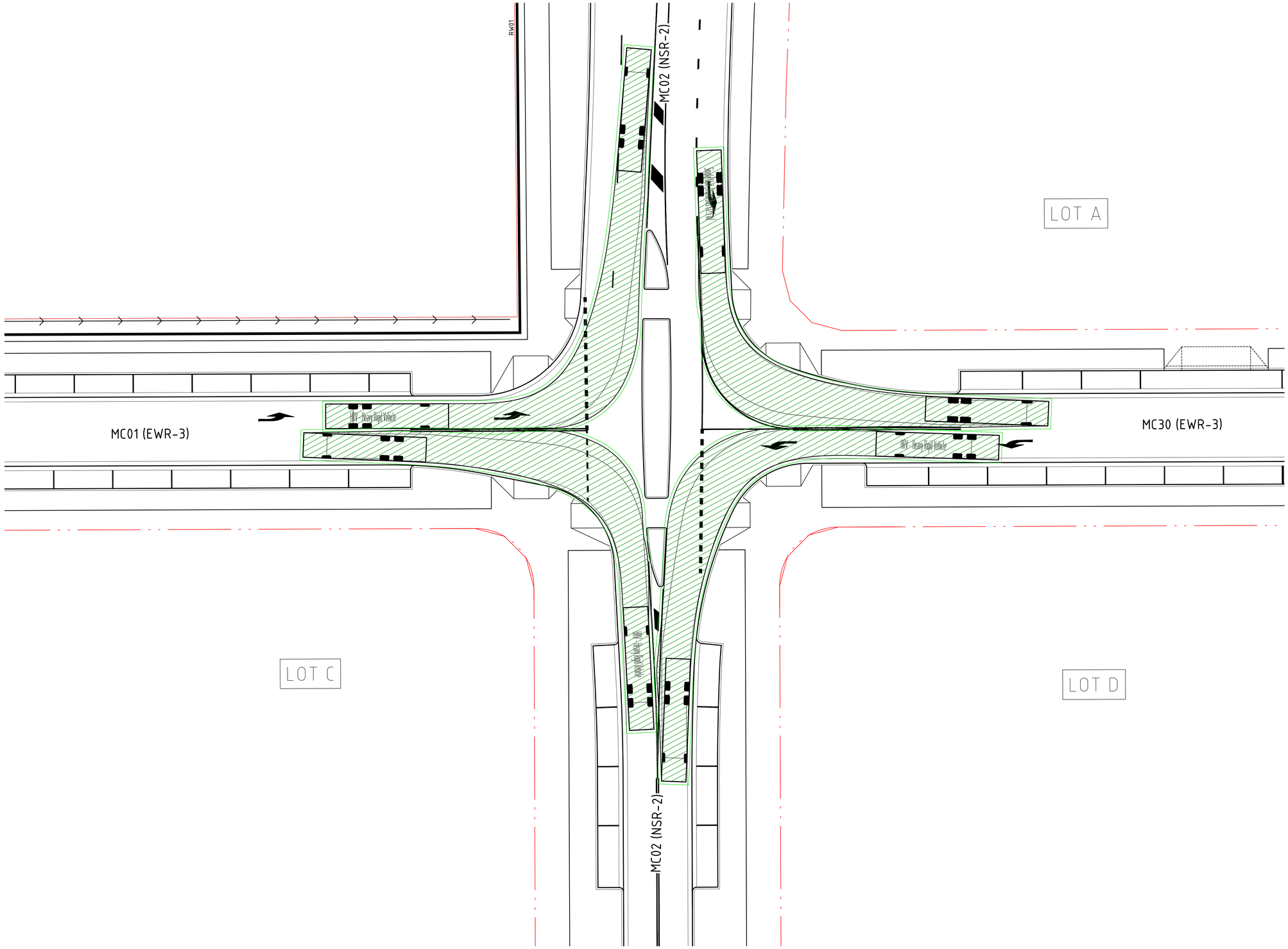
DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 02

JOB NUMBER 150077-60
DRAWING NUMBER C10.02
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: Fri,13 Oct 2023,15:07:49 - Melrose Park Infrastructure DA - 150150\drawings\civil\150077-60 CIVIL\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

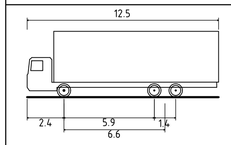
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
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| 04 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:200@ A1 (0 2 4 6 8 10m)

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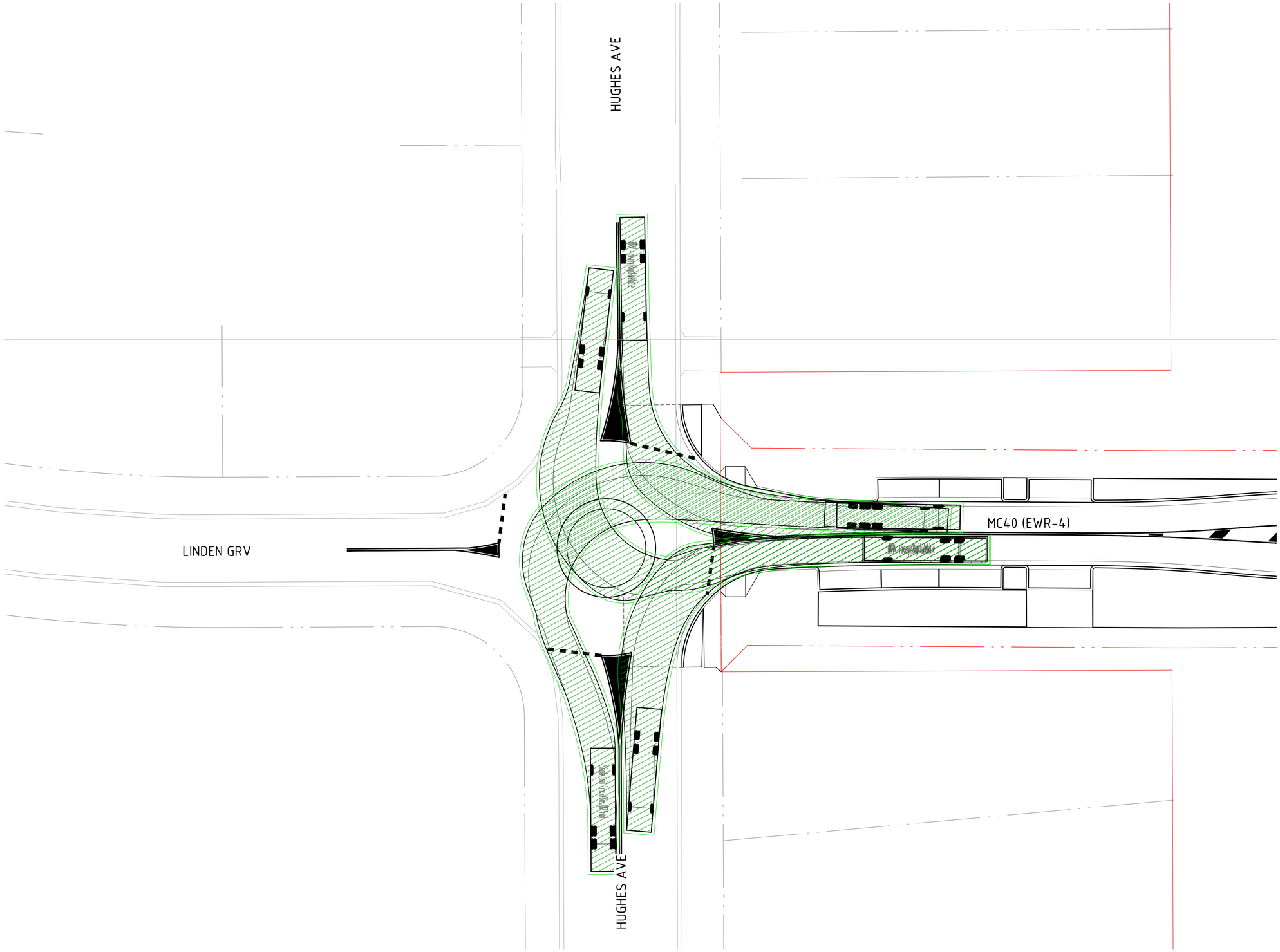
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 03

JOB NUMBER 150077-60
DRAWING NUMBER C10.03
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 14/02/2023 8:08:07 AM By: Matthew Parks Infrastructure DA - 2021\150-Drawings\2D-Civil\150077-60 CADD\Plan\150077-60_C10.03.dwg




## VEHICLE MOVEMENTS

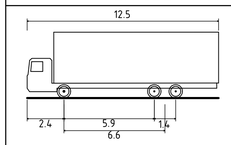
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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0 2 4 6 8 10m

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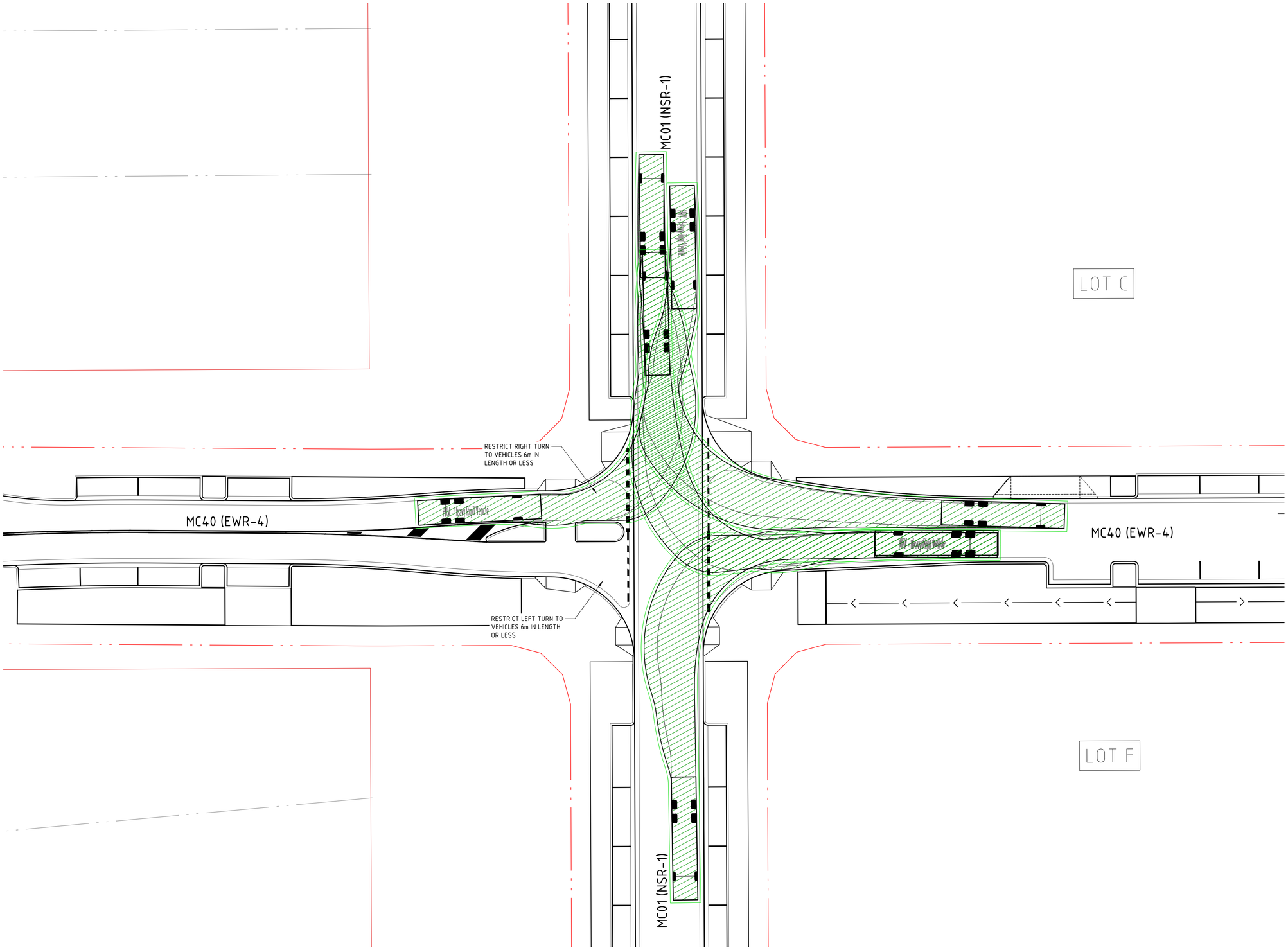
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 04

JOB NUMBER 150077-60
DRAWING NUMBER C10.04
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7 NOVEMBER 2023 10:07 AM | Melrose Park Infrastructure DA - 2021\1 Drawings\2 Civil\150077-60 CAD\STRATA\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

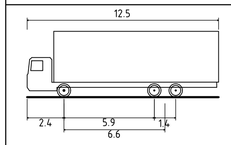
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

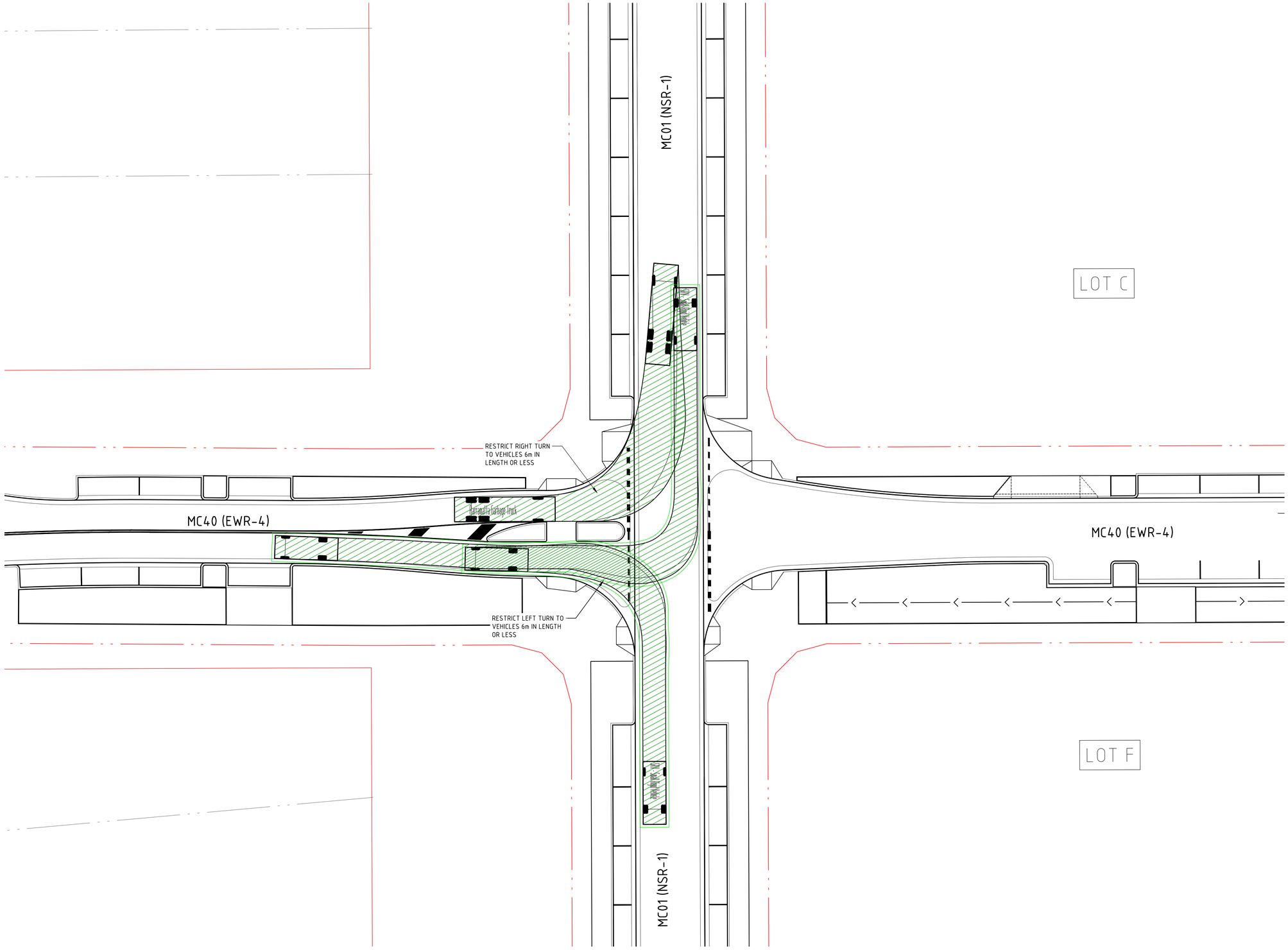
**SWEPT PATHS PLAN - SHEET 05**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.05** REVISION **07**

DRAWING SHEET SIZE = A1

Model: M:\Civil\150077-60 Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\Plotstyles\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

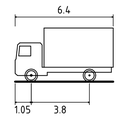
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

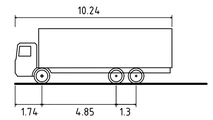
## VEHICLE PROFILE




SRV - SMALL RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 6.400m |
| OVERALL WIDTH | 2.330m |
| OVERALL BODY HEIGHT | 3.500m |
| MIN BODY GROUND CLEARANCE | 0.398m |
| TRACK WIDTH | 2.330m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 7.100m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




PARRAMATTA GARBAGE TRUCK (10.24 m)

| | |
|---|---|
| OVERALL LENGTH | 10.240m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.490m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

VERIFIER: -

JOB MANAGER: P.SUTTON

DESIGNED: ARIVETT

DRAWN: B.MAZZA

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:200@ A1

0 2 4 6 8 10m

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PROJECT

**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE

**CIVIL ENGINEERING PACKAGE**

**SWEPT PATHS PLAN - SHEET 06**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.06**

REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:00:07 AM By: Melrose Park Infrastructure DA - 2021/1/Drawings/Civil/C10.00-07 SWEPT PATHS PLAN - SHEET 06_C10.01.dwg

LOT C

LOT D

MC02 (NSR-2)

MC40 (EWR-4)

MC40 (EWR-4)

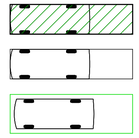
LOT F

LOT G

MC02 (NSR-2)

## VEHICLE MOVEMENTS

FORWARD MOVEMENT



VEHICLE BODY

VEHICLE WHEELS

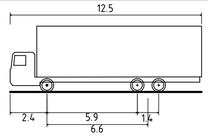
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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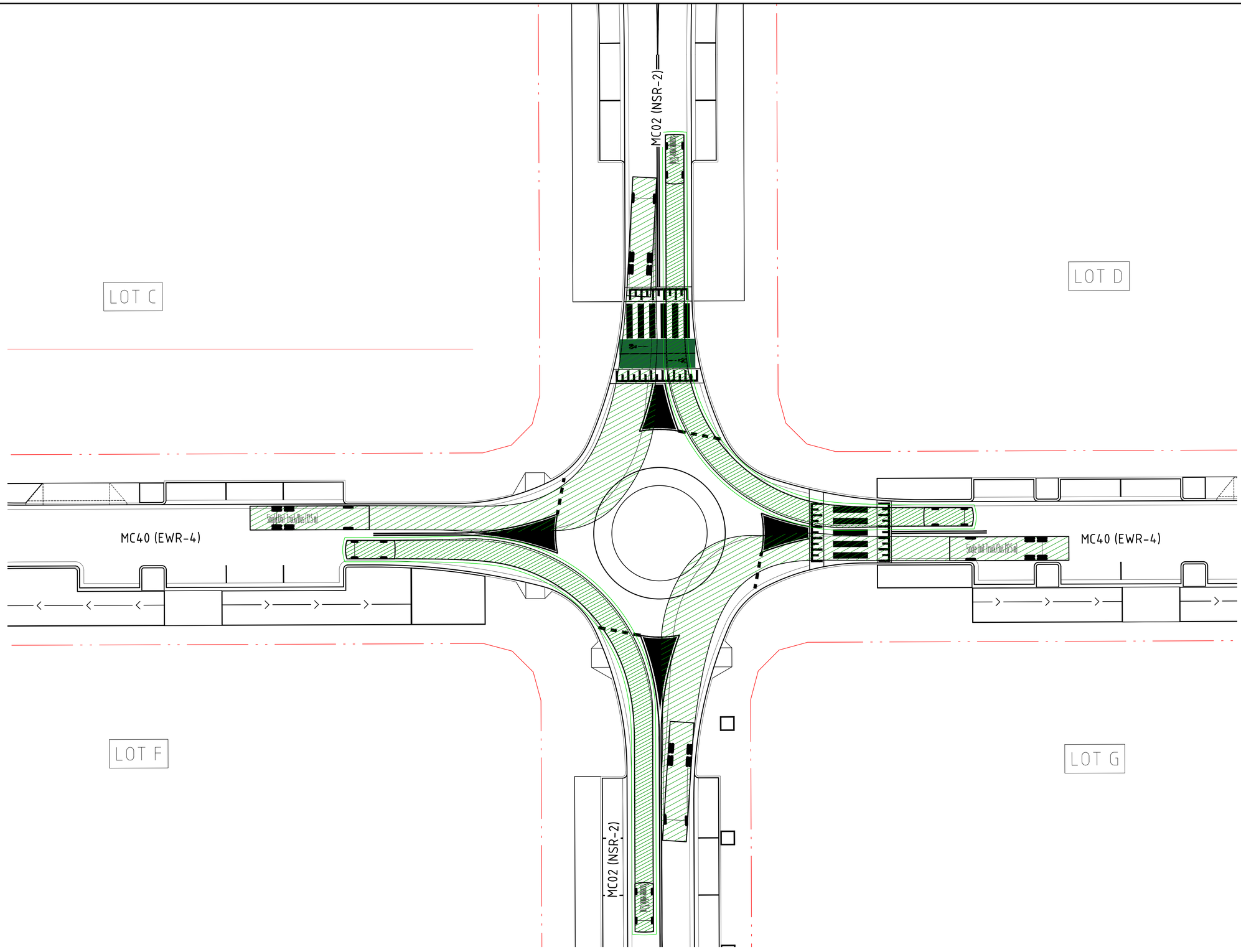
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 07

JOB NUMBER 150077-60
DRAWING NUMBER C10.07
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 7:10:02 AM By: Andrew Rivett Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\Plans\150077-60_C10.07.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

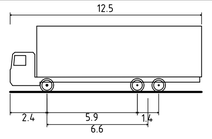
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 08

JOB NUMBER 150077-60
DRAWING NUMBER C10.08
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: Thursday, 14 December 2023 - 10:47:40 AM by Brandon Mazza
Melrose Park Infrastructure DA - 150077\Drawings\Civil\150077-60 CIVIL C10.01.dwg

LOT C

LOT D

MC02 (NSR-2)

MC40 (EWR-4)

MC40 (EWR-4)

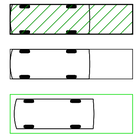
LOT F

LOT G

MC02 (NSR-2)

## VEHICLE MOVEMENTS

FORWARD MOVEMENT



VEHICLE BODY

VEHICLE WHEELS

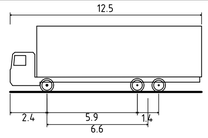
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 04 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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CLIENT

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SCALE 1:200@ A1

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PROJECT

**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE

**CIVIL ENGINEERING PACKAGE**

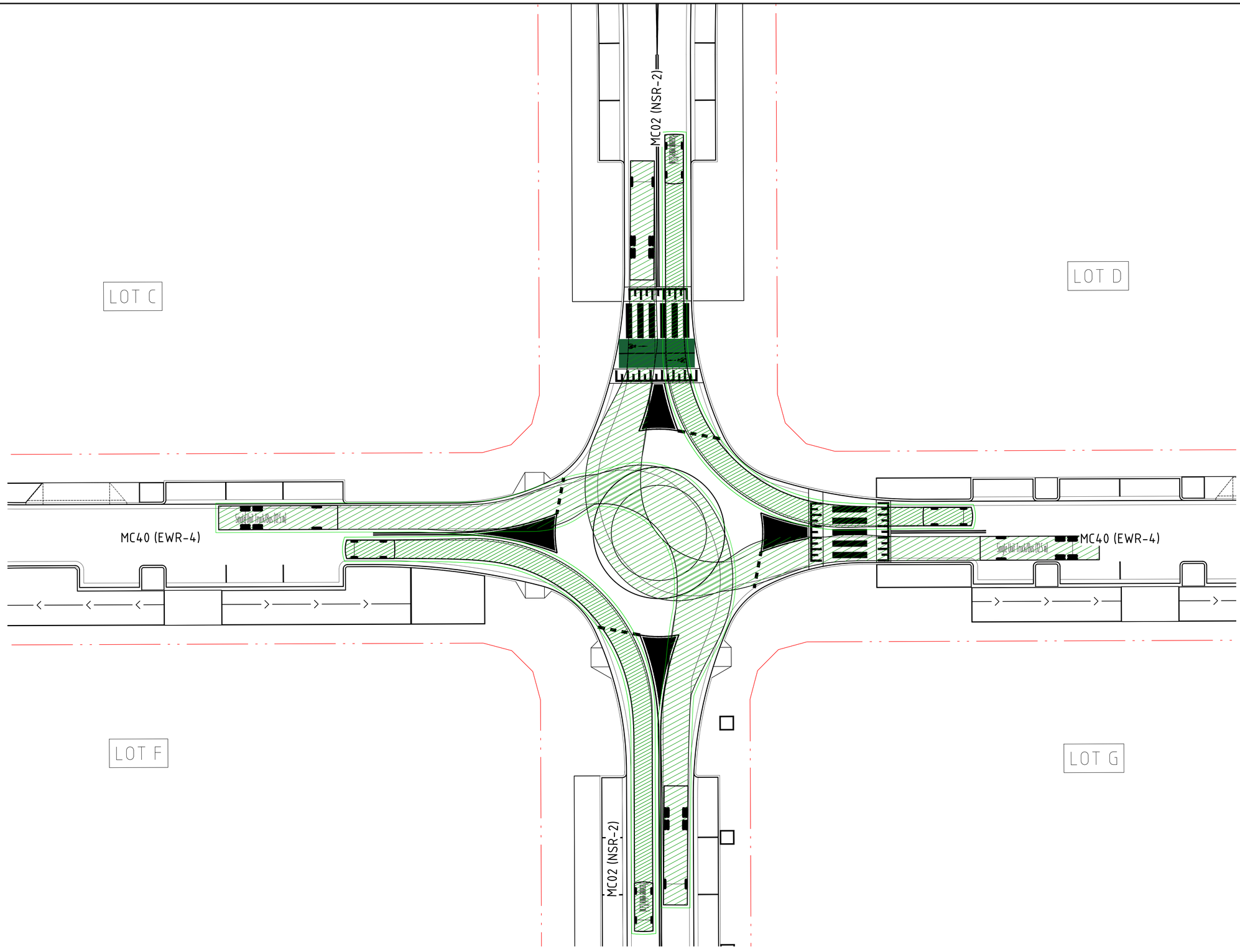
**SWEPT PATHS PLAN - SHEET 09**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.09** REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 7:10:00 AM - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\Plans\150077-60_C10.09.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

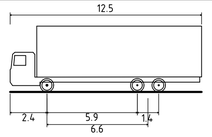
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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SCALE 1:200@ A1 0 2 4 6 8 10m

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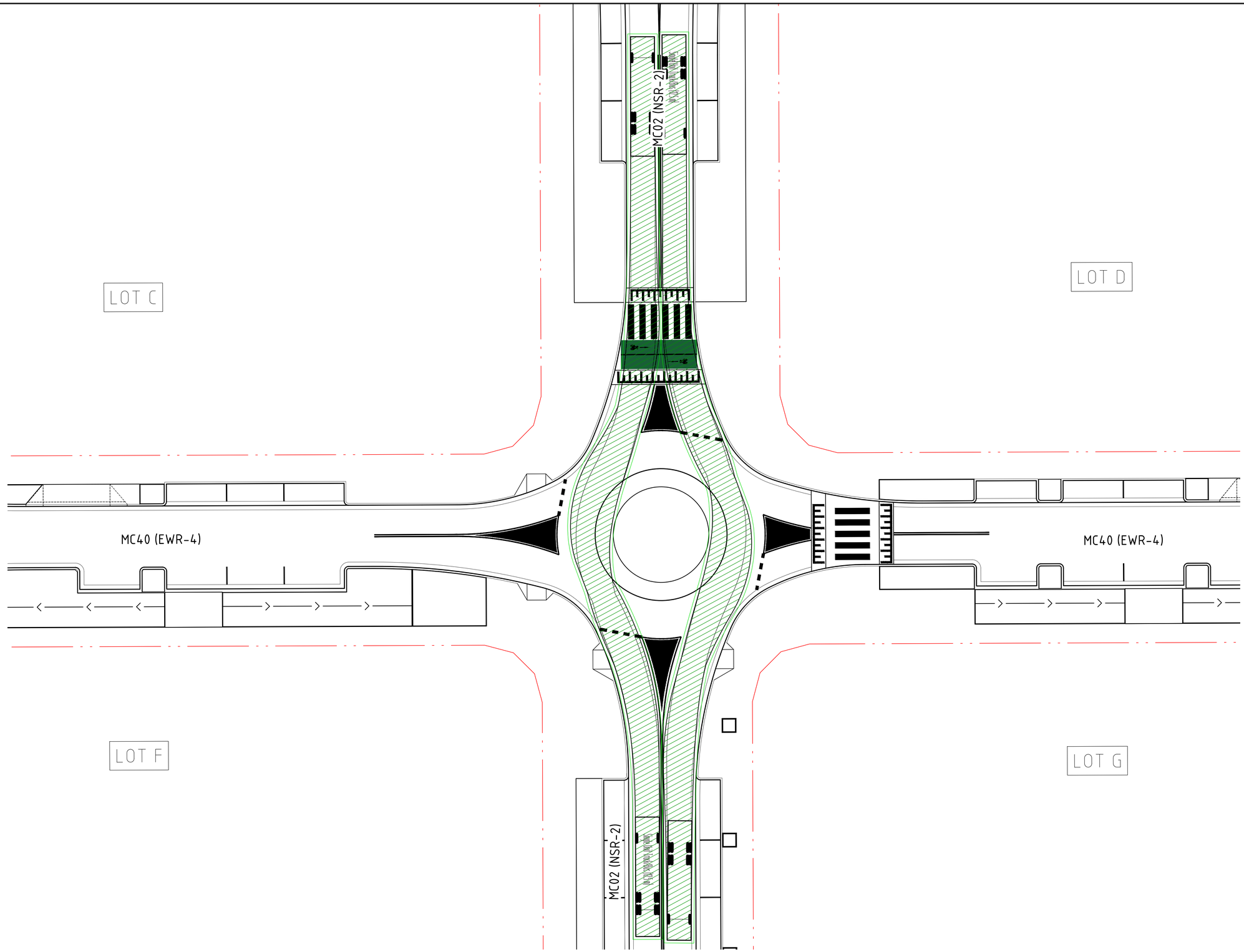
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 10

JOB NUMBER 150077-60
DRAWING NUMBER C10.10
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 8:08:07 AM By: Brianna Mazza Filename: Melrose Park Infrastructure DA - 150077-60\Drawings\Civil\150077-60 C10.01.dwg




## VEHICLE MOVEMENTS

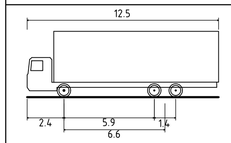
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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0 2 4 6 8 10m

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

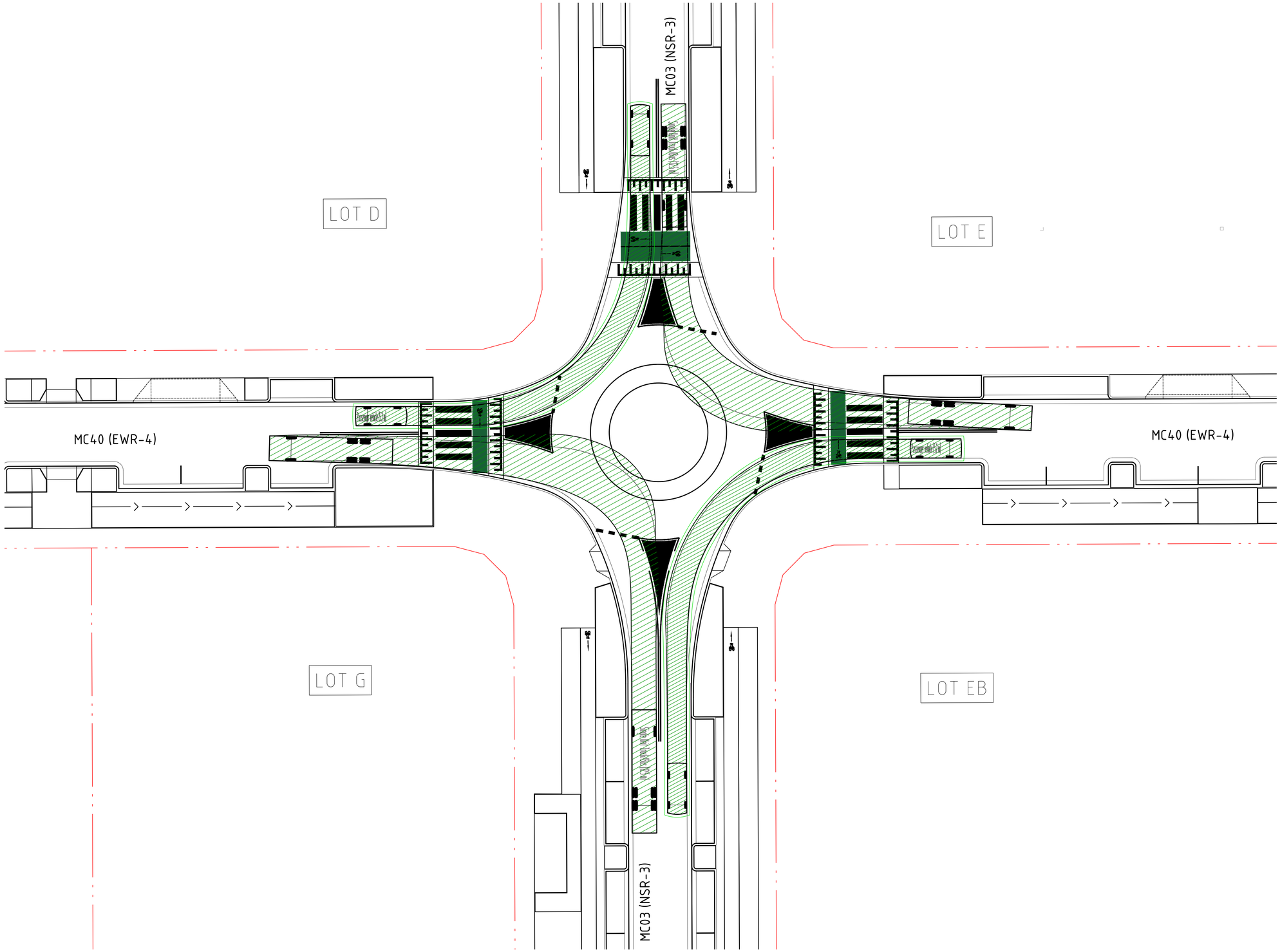
**SWEPT PATHS PLAN - SHEET 11**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.11** REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:00:57 AM By: Melrose Park Infrastructure DA - 2021\150077-60\Drawings\Civil\150077-60 CAD\150077-60_C10.11.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

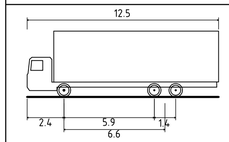
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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0 2 4 6 8 10m

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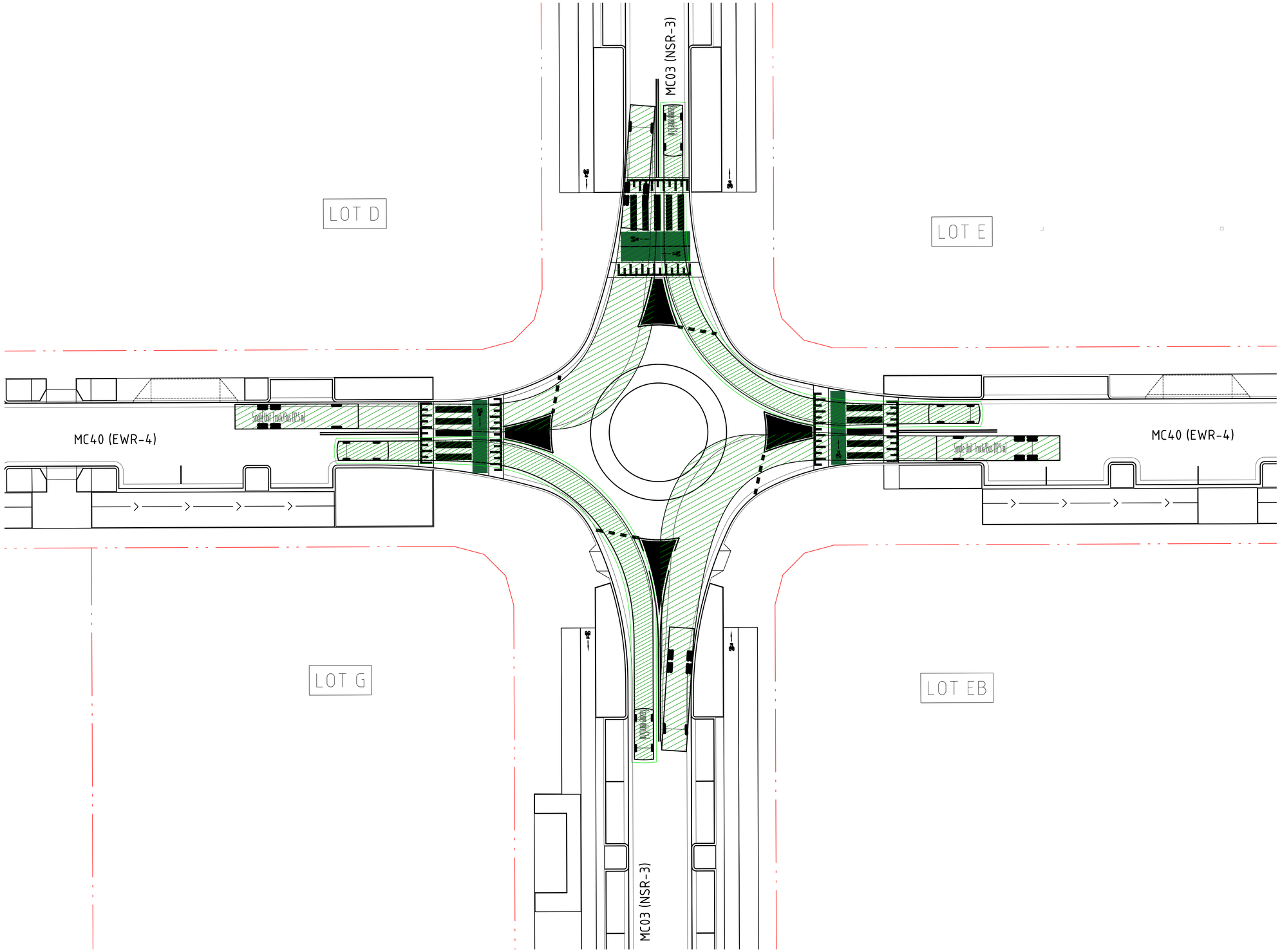
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 12

JOB NUMBER 150077-60
DRAWING NUMBER C10.12
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:07:10 AM By: Brendan Mazza File: P:\Projects\150077-00 Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-00 CAD\150077-C10.12.dwg




## VEHICLE MOVEMENTS

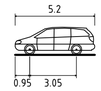
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

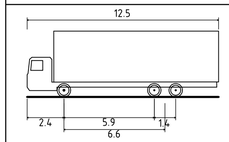
## VEHICLE PROFILE




PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

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0 2 4 6 8 10m

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SWEPT PATHS PLAN - SHEET 13

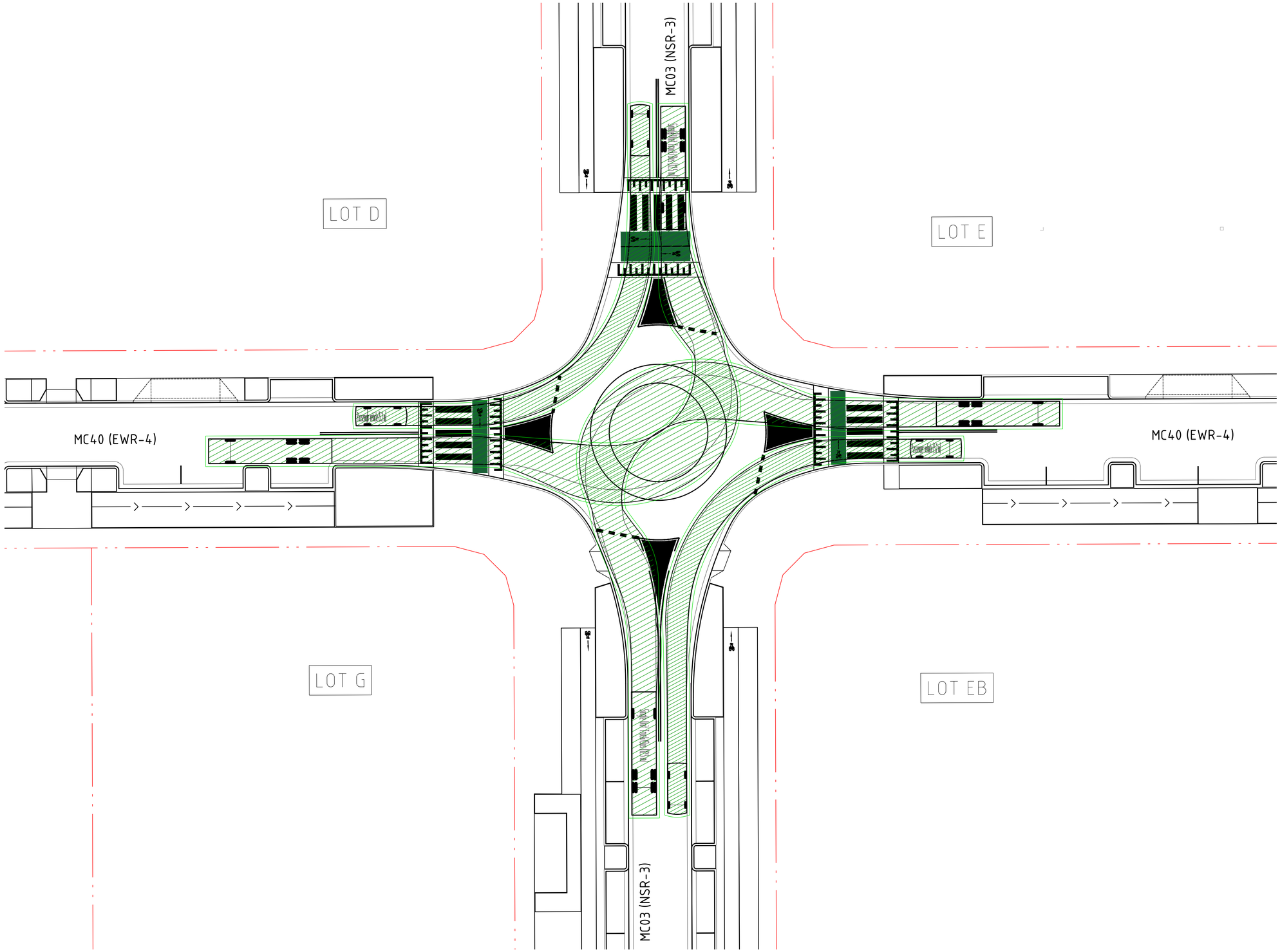
JOB NUMBER 150077-60

DRAWING NUMBER C10.13

REVISION 07

DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:07:55 AM By: Brendan Mazza Filename: J:\150077-00 MELROSE PARK Infrastructure DA - 2021\Drawings\Civil\150077-00 CAD\150077-00 C10.01.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

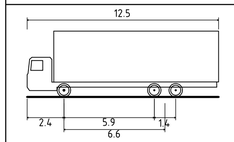
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
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| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SWEPT PATHS PLAN - SHEET 14

JOB NUMBER 150077-60
DRAWING NUMBER C10.14
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:07:55 AM By: Brendan Mazza
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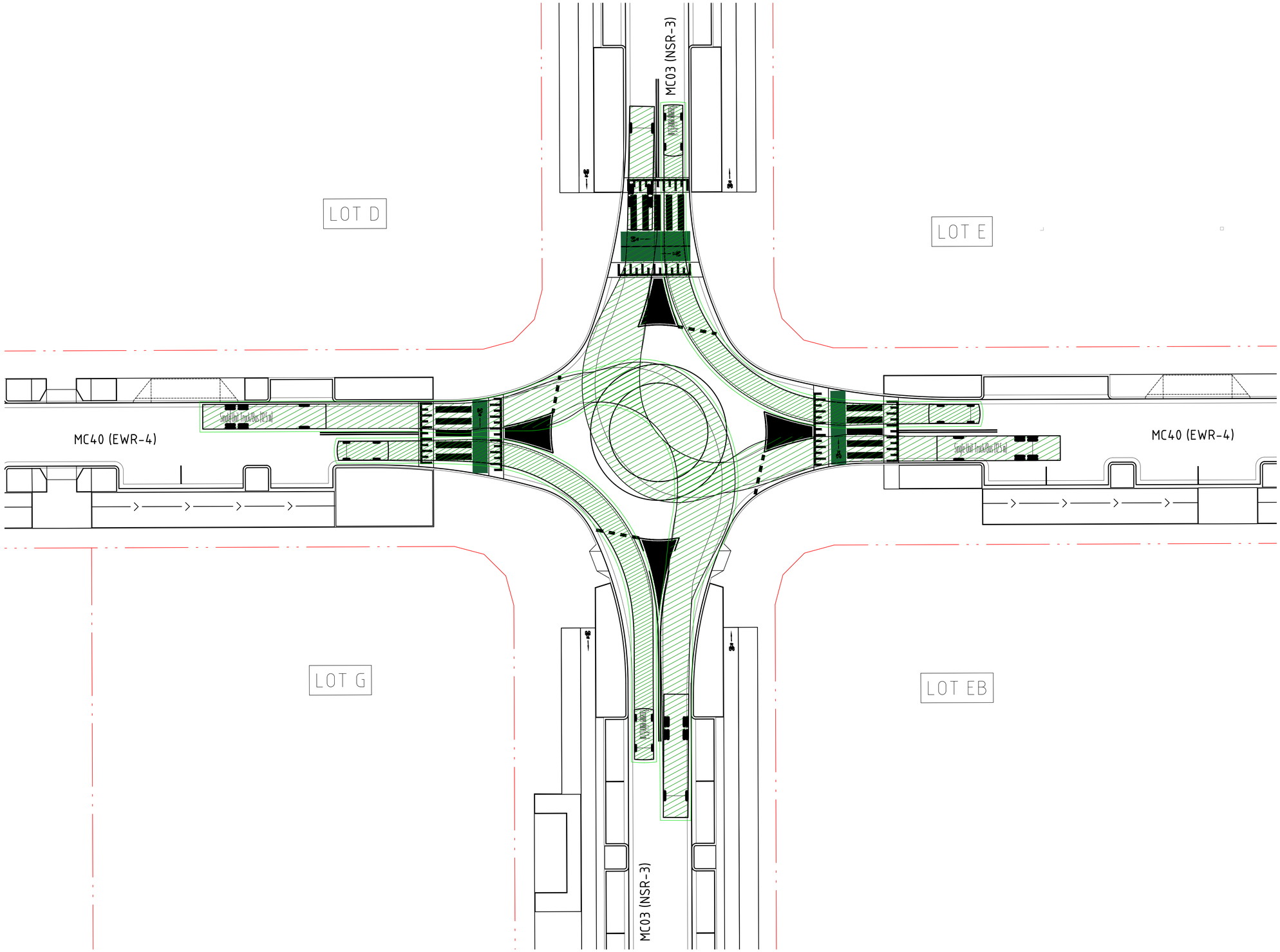



## VEHICLE MOVEMENTS

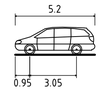
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

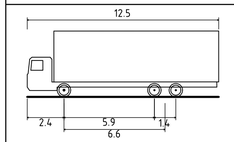
## VEHICLE PROFILE




PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

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|---|---|
| OVERALL LENGTH | 12.500m |
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| OVERALL BODY HEIGHT | 4.300m |
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| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

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Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

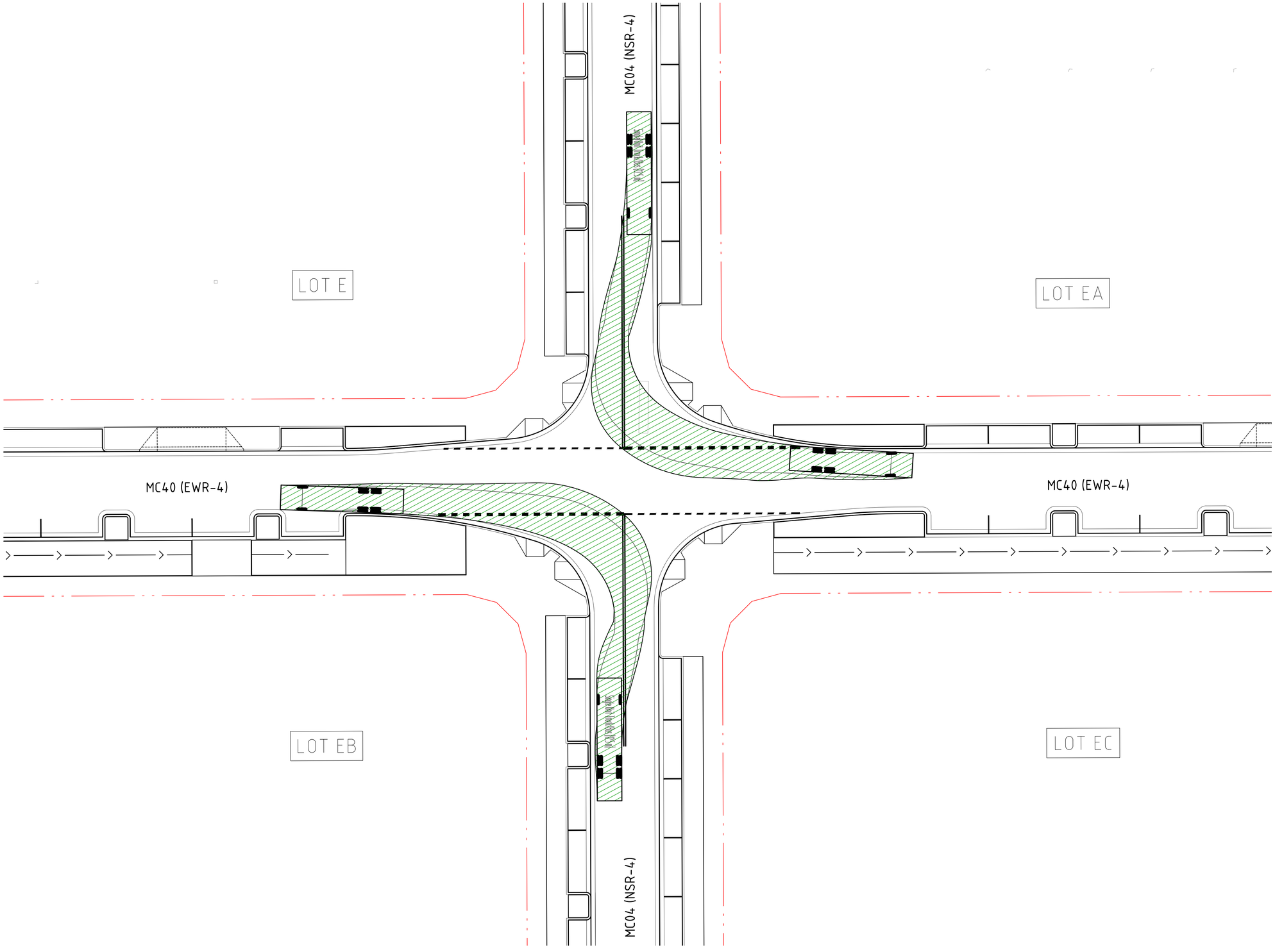
SWEPT PATHS PLAN - SHEET 15

JOB NUMBER 150077-60

DRAWING NUMBER C10.15 | REVISION 07

DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:07:10 AM | By: Brendan Mazza | File: G:\Projects\150077-00 Melrose Park Infrastructure DA - 2021\3-Drawings\3c-Civil\150077-00 CAD\01DA\150077-00_C10.01.dwg




## VEHICLE MOVEMENTS

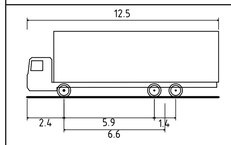
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 16

JOB NUMBER 150077-60
DRAWING NUMBER C10.16
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7 Nov 2023 at 10:07:17 AM by Brandon Mazza
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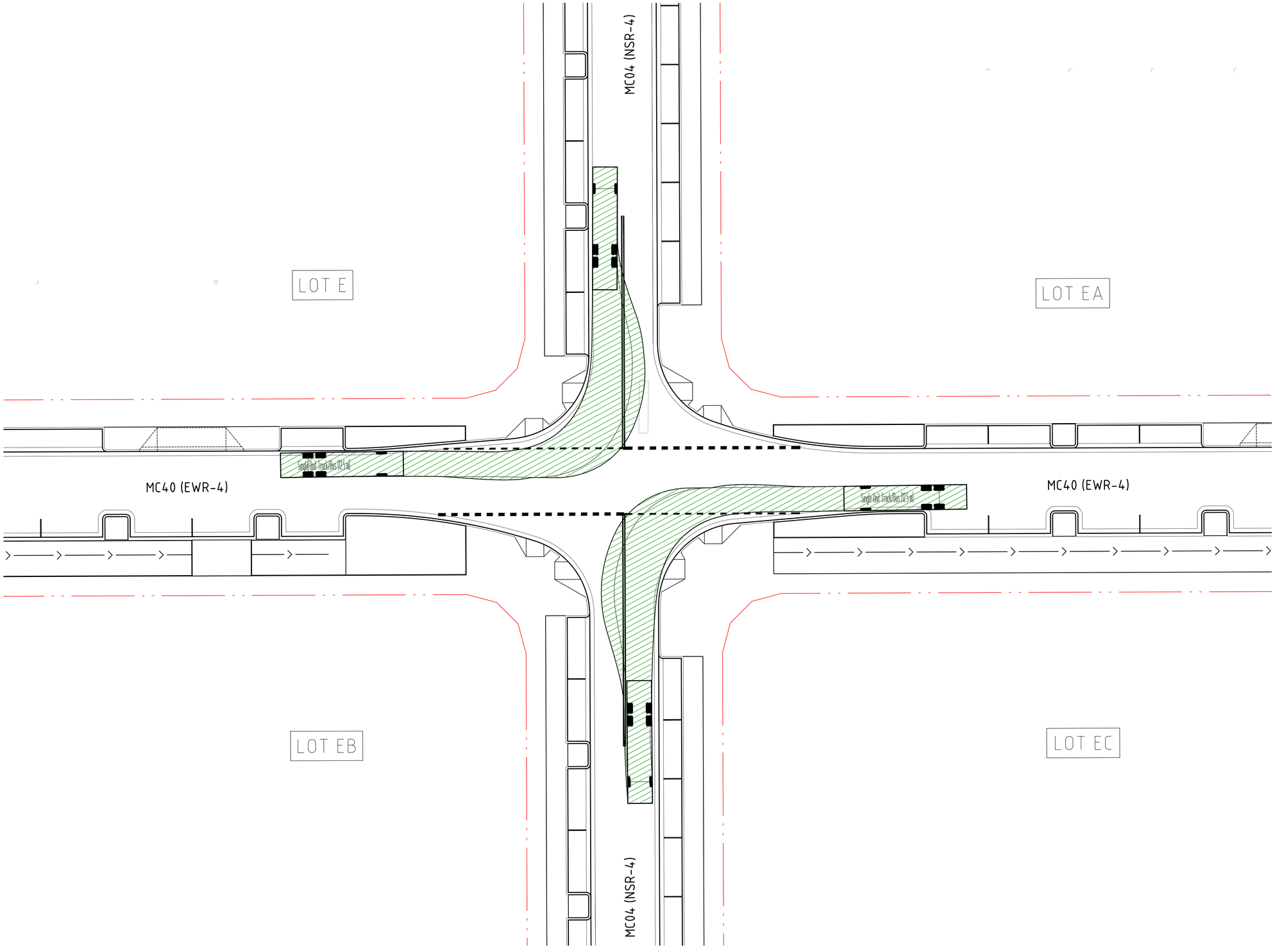



## VEHICLE MOVEMENTS

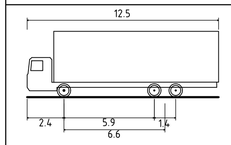
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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Ph (02) 9241 4188 Fax (02) 9241 4324
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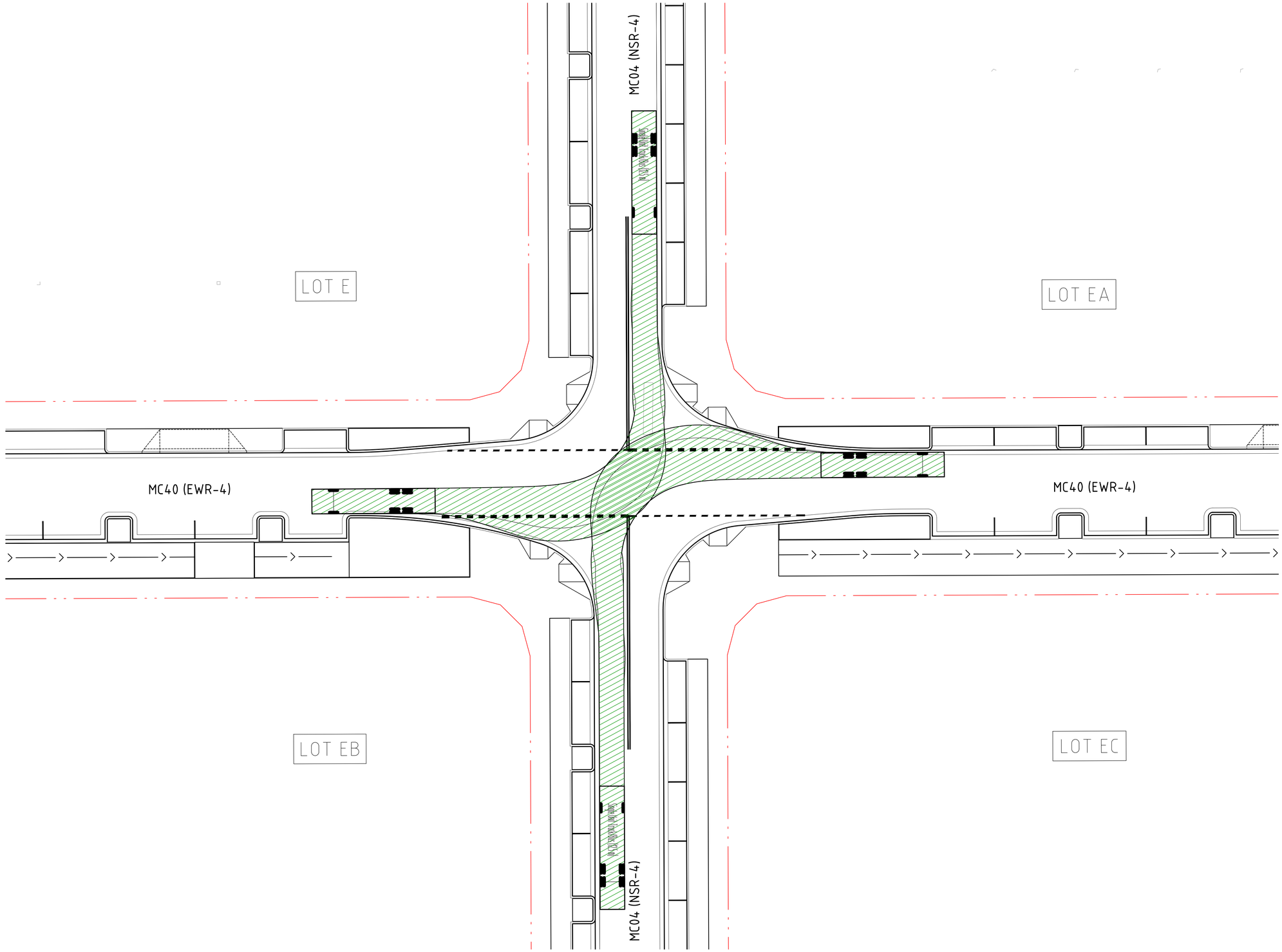
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 17

JOB NUMBER 150077-60
DRAWING NUMBER C10.17
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7 Nov 2023 at 10:07:47 - Melrose Park Infrastructure DA - 2021\10-Drawings\Civil\150077-60 Melrose Park Infrastructure DA - 2021\10-Drawings\Civil\150077-60_C10.17.dwg




## VEHICLE MOVEMENTS

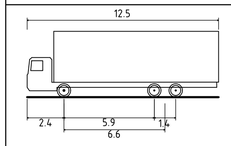
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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0 2 4 6 8 10m

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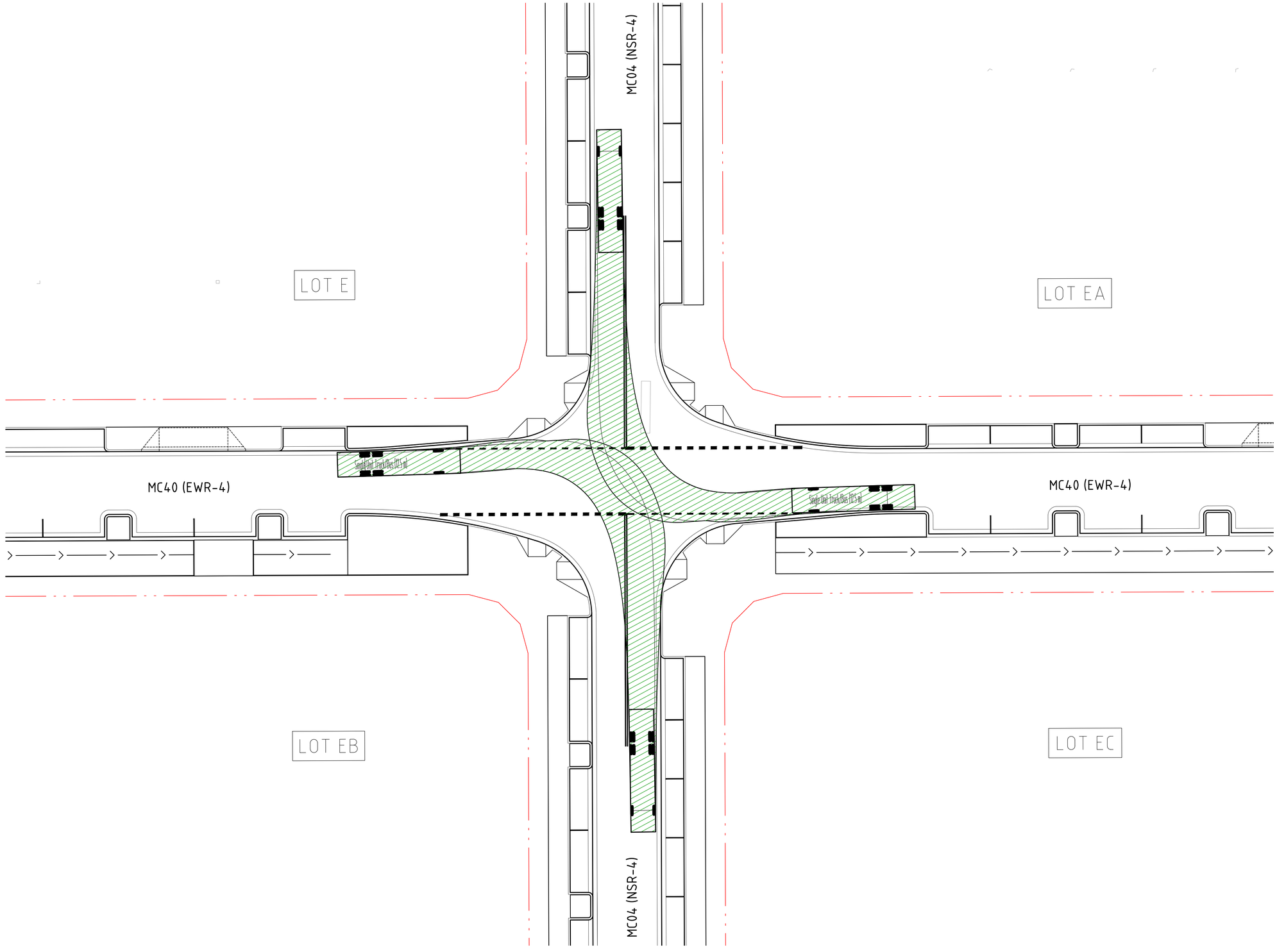
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 18

JOB NUMBER 150077-60
DRAWING NUMBER C10.18
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 8:08:57 AM | Melrose Park Infrastructure DA - 2021\10-Drawings\20-Civil\150077-60 CADD\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

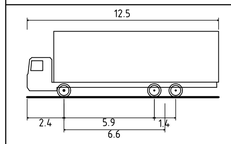
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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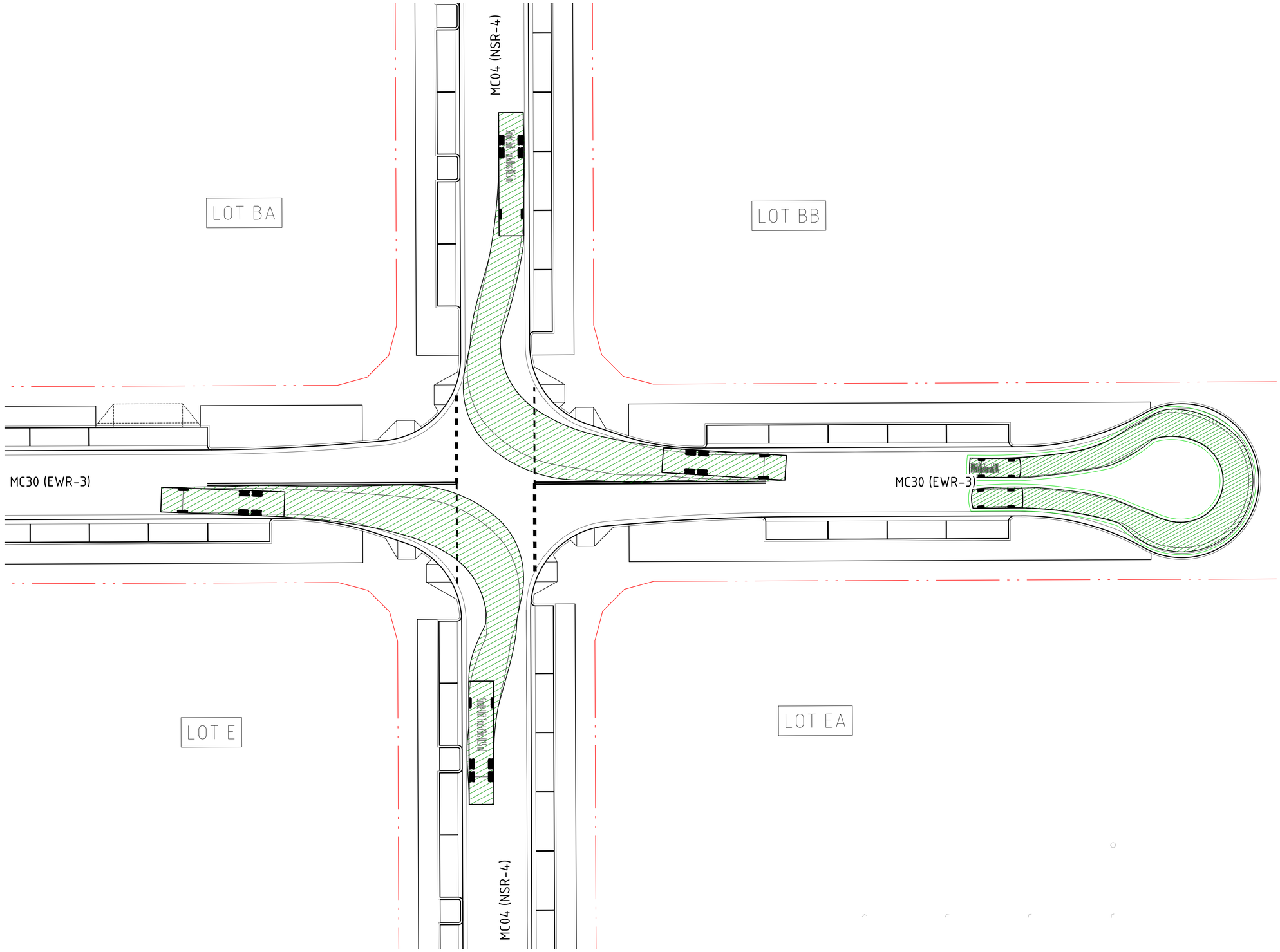
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 19

JOB NUMBER 150077-60
DRAWING NUMBER C10.19
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:08:07 AM By: Andrew Mazza Infrastructure DA - 150770\Drawings\Civil\150077-60 CAD\Plots\150077-60_C10.19.dwg




## VEHICLE MOVEMENTS

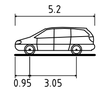
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

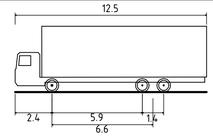
## VEHICLE PROFILE




PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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0 2 4 6 8 10m

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 20

JOB NUMBER 150077-60
DRAWING NUMBER C10.20
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 7:38:07 AM By: Brandon Mazza
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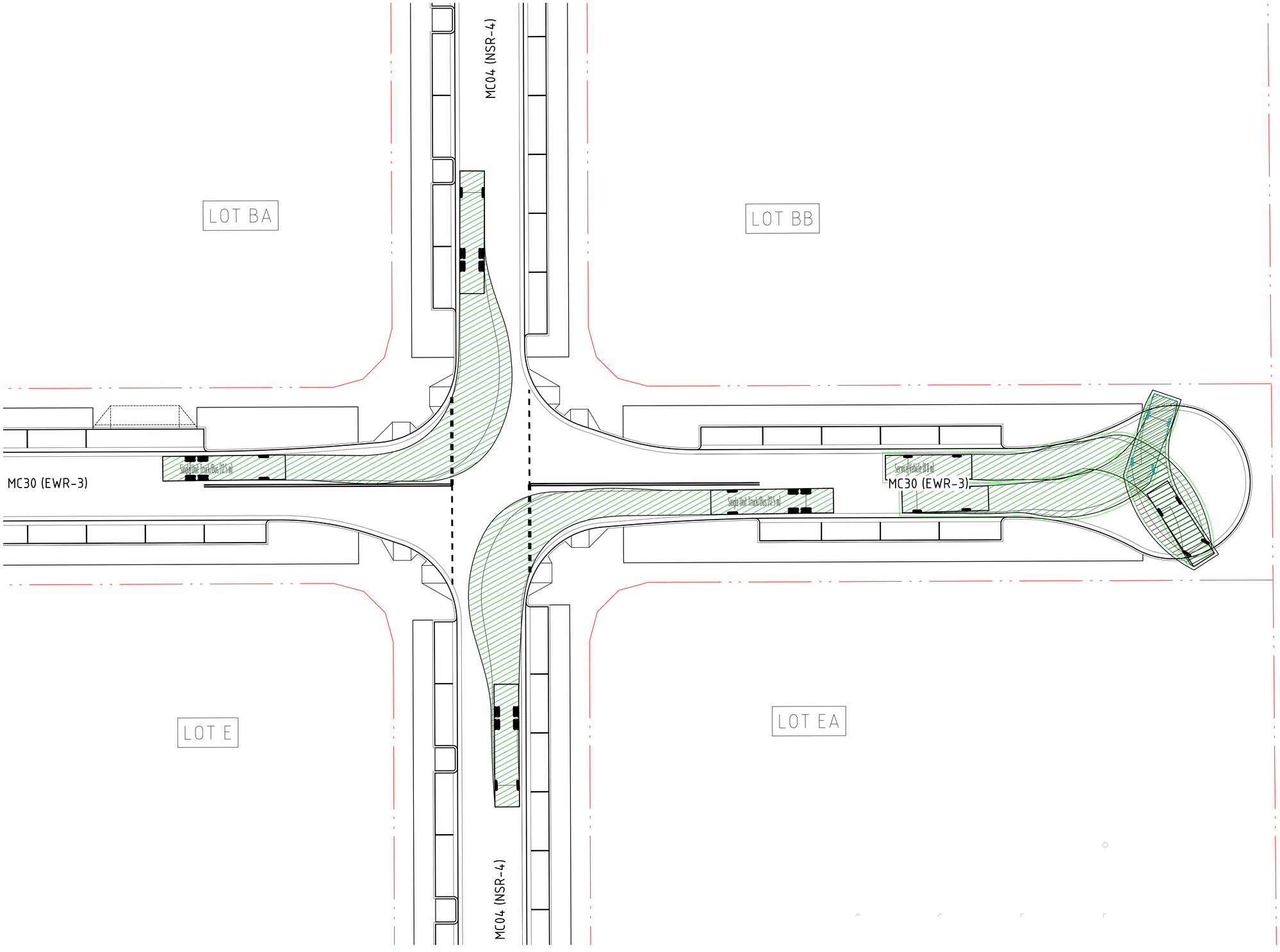



## VEHICLE MOVEMENTS

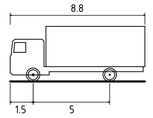
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

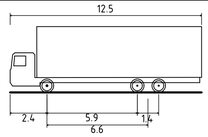
## VEHICLE PROFILE




SERVICE VEHICLE (8.8 m)

| | |
|---|---|
| OVERALL LENGTH | 8.800m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.427m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:200@ A1 0 2 4 6 8 10m

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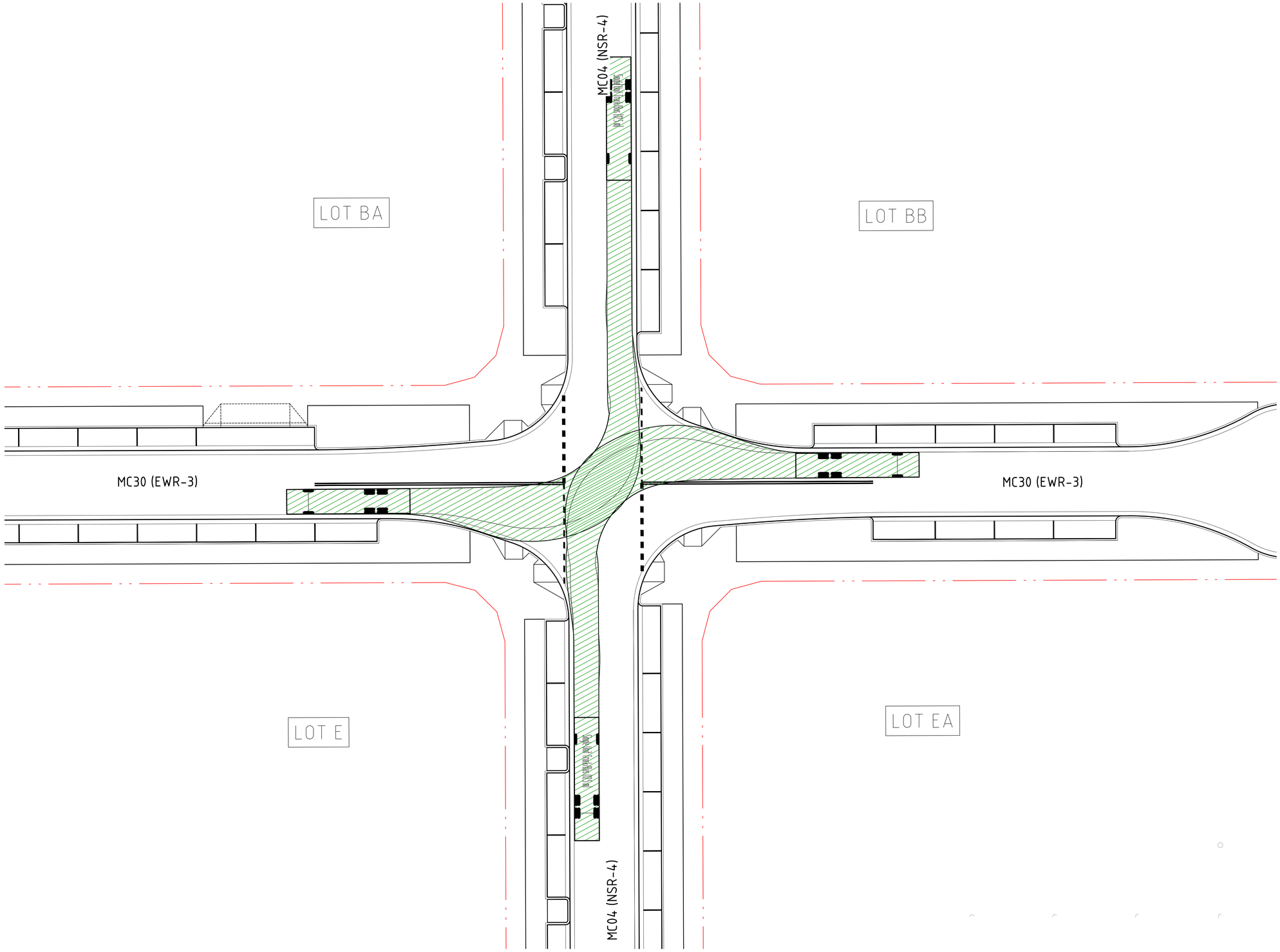
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 21

JOB NUMBER 150077-60
DRAWING NUMBER C10.21
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7th Oct 2023 at 08:07:40 AM - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\01 DA\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

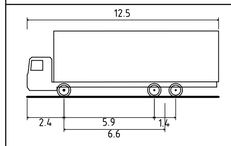
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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SCALE 1:200@ A1 (0 2 4 6 8 10m)

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

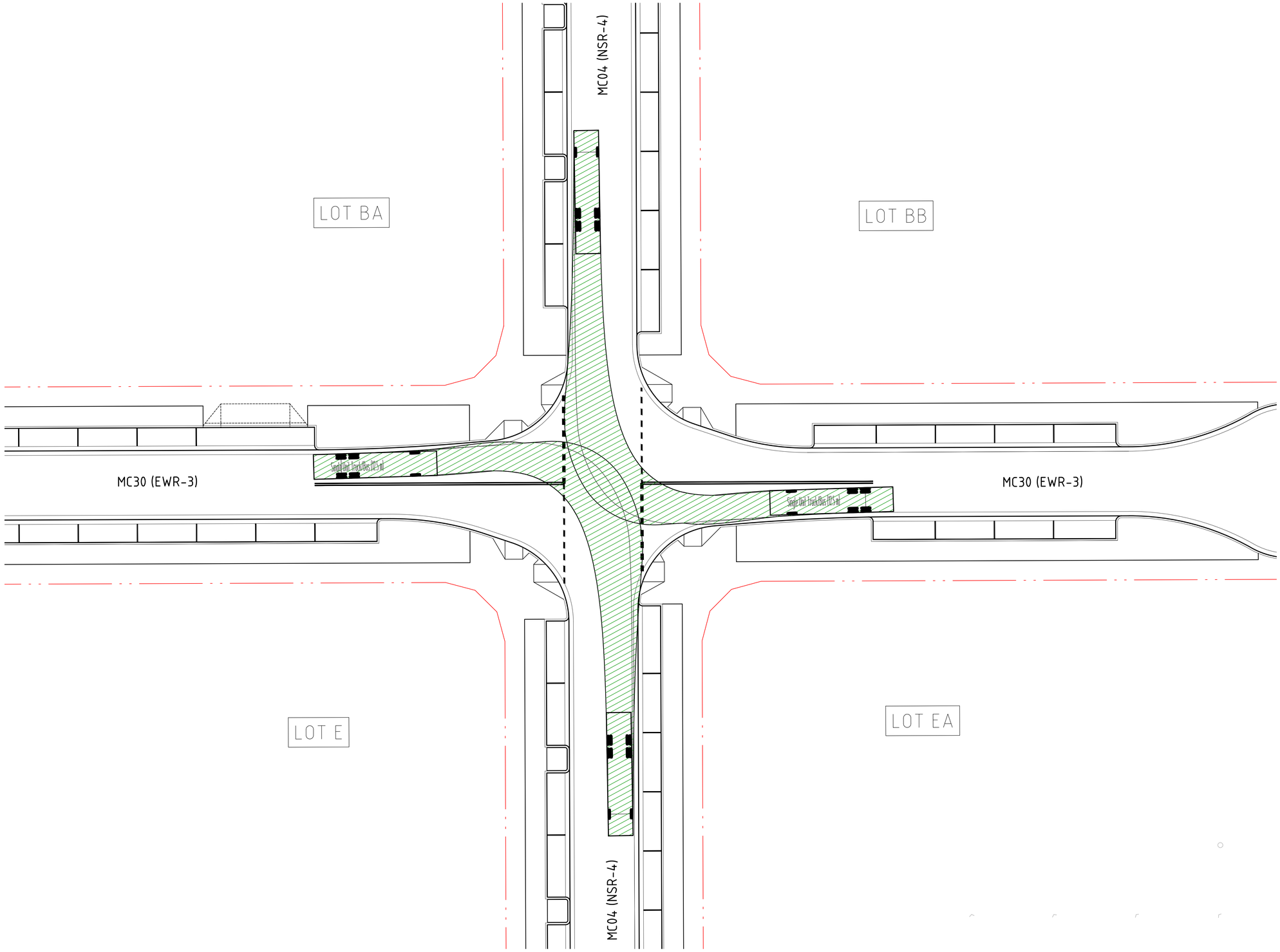
**SWEPT PATHS PLAN - SHEET 22**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.22** REVISION **07**

DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 8:00:07 AM By: Brendan Mazza File: I:\Projects\150077-60 Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CAD\01DA\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

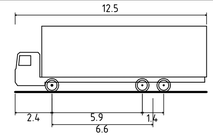
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

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|---|---|---|---|---|---|
| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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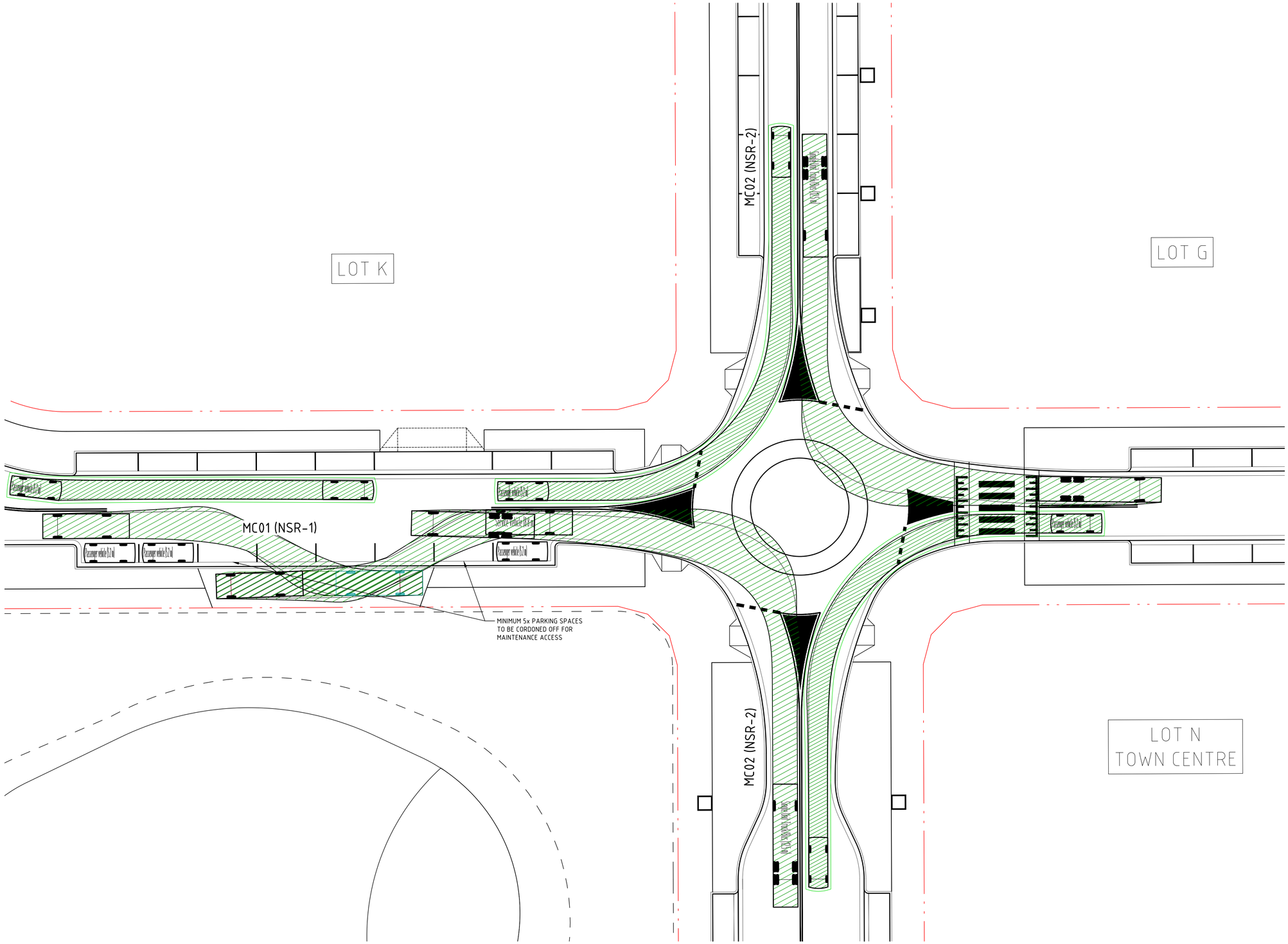
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 23

JOB NUMBER 150077-60
DRAWING NUMBER C10.23
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 10:07:39 AM - Melrose Park Infrastructure DA - 150710-Drawings\Civil\150077-60 CAD\01 DA\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

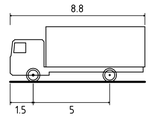
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

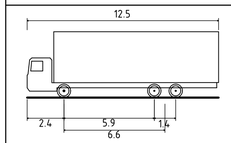
## VEHICLE PROFILE




SERVICE VEHICLE (8.8 m)

| | |
|---|---|
| OVERALL LENGTH | 8.800m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.427m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA
DESIGNED: A.RIVETT
JOB MANAGER: P.SUTTON
VERIFIER: -

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| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:200@ A1
0 2 4 6 8 10m

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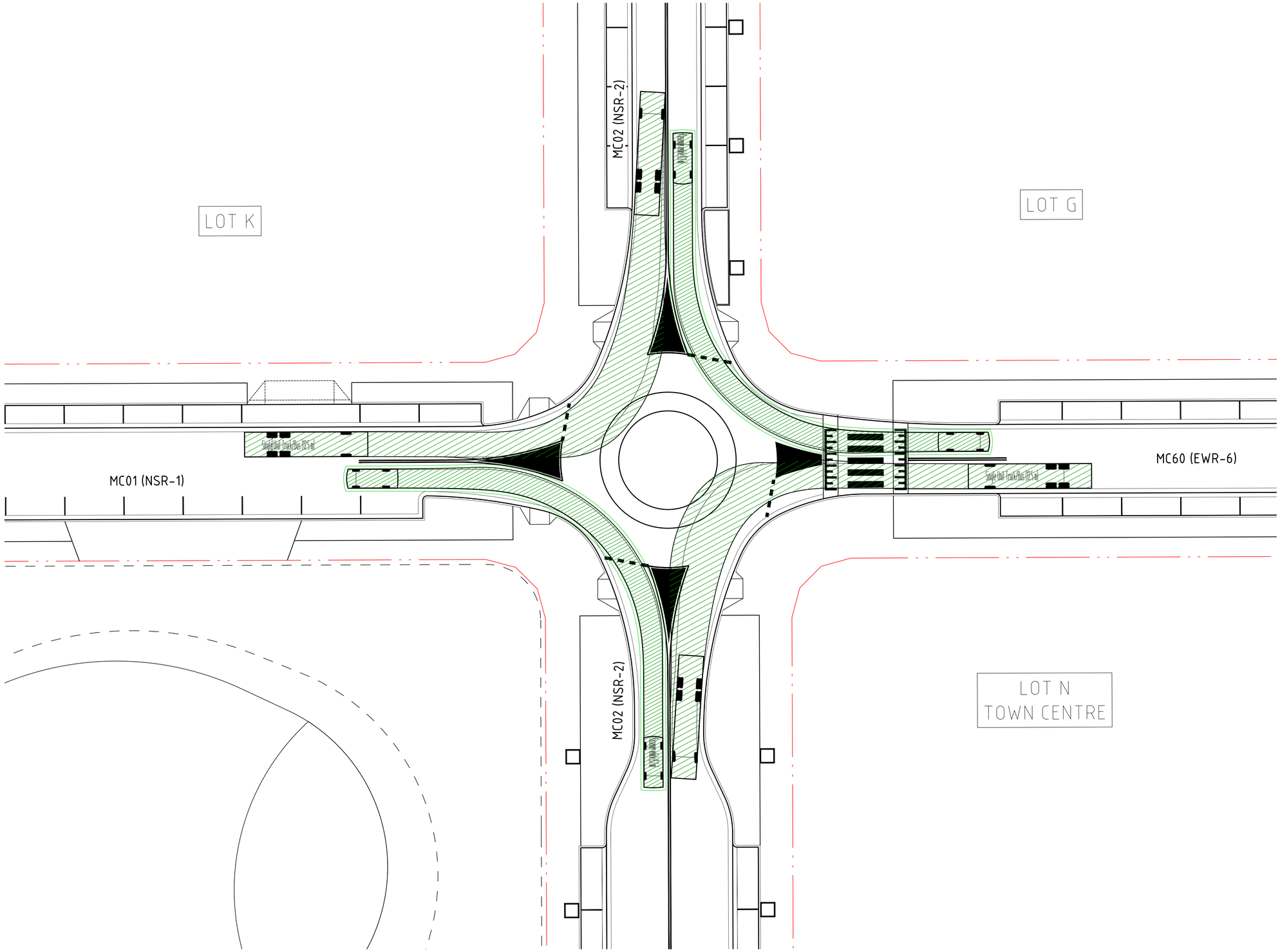
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 24

JOB NUMBER 150077-60
DRAWING NUMBER C10.24
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 8:00:37 AM Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-00 C10.24 SWEPT PATHS PLAN - SHEET 24.dwg




## VEHICLE MOVEMENTS

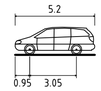
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

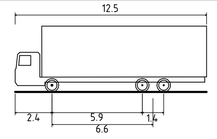
## VEHICLE PROFILE




PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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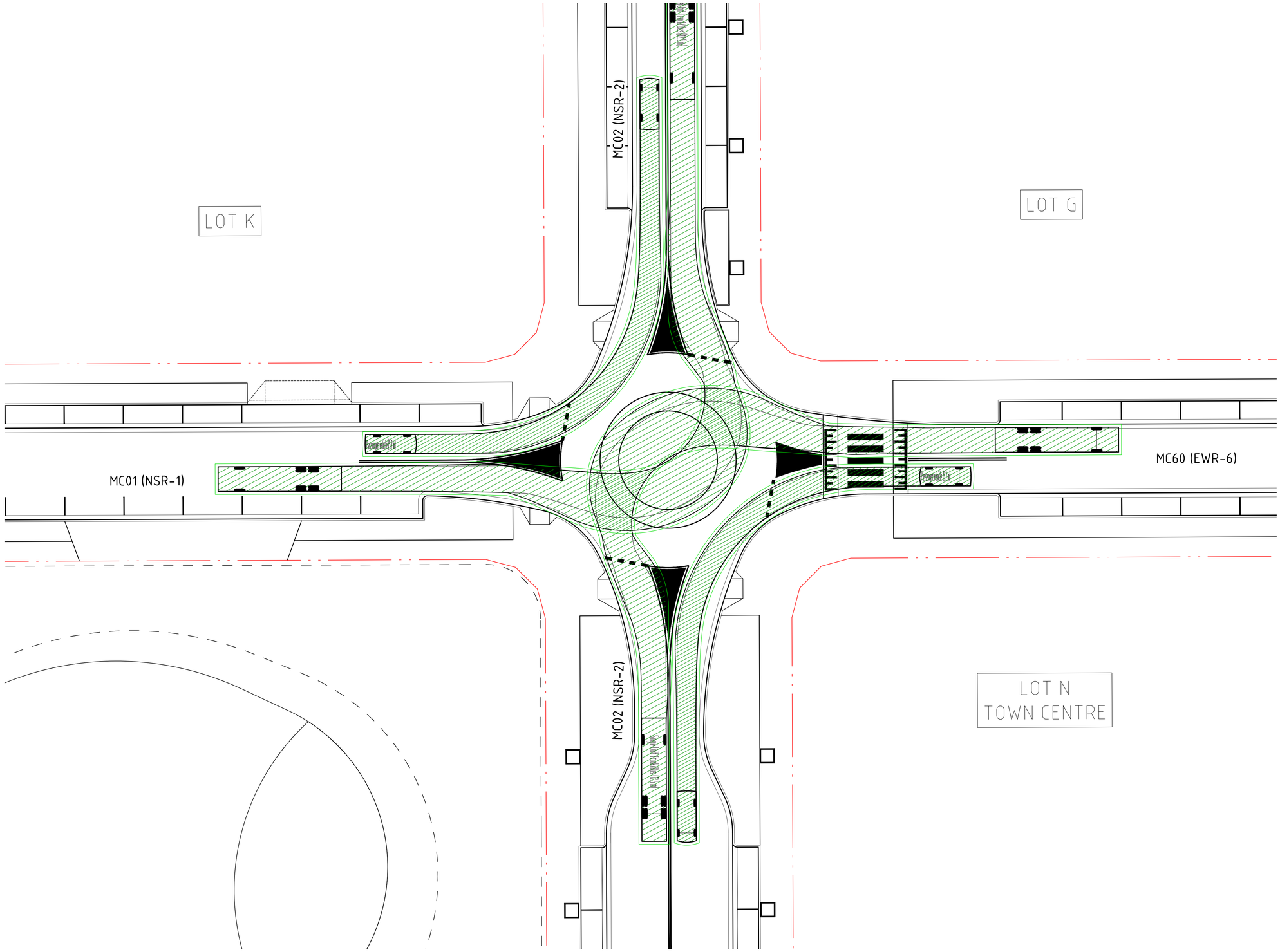
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SWEPT PATHS PLAN - SHEET 25

JOB NUMBER 150077-60
DRAWING NUMBER C10.25
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 19 OCT 2023 - 10:07:12 C:\Users\bmazza\Northrop Consulting Engineers\NORTHROP - Documents\150077 Melrose Park Infrastructure DA - 2021\CAD\Civil\150077_SP_C10.01.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

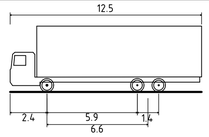
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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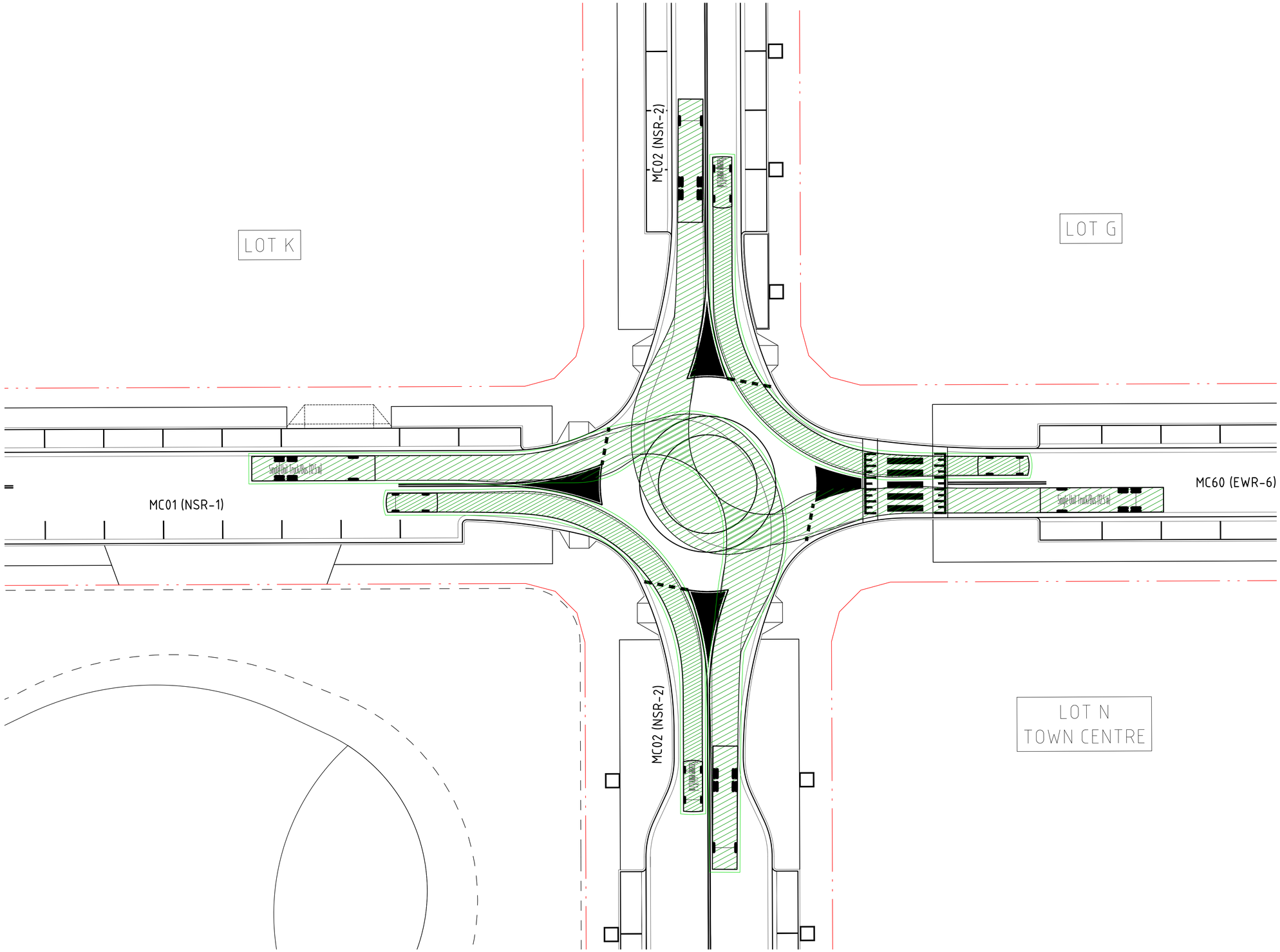
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SWEPT PATHS PLAN - SHEET 26

JOB NUMBER 150077-60
DRAWING NUMBER C10.26
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 14/12/2023 10:00:57 AM | Plotted By: Ben Mazza | File Name: J:\150077-Melrose Park Infrastructure DA - 2021\02-Drawings\02-Civil\150077-00 CAD\07-Civil\150077-00_C10.01.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

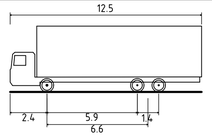
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:200@A1 0 2 4 6 8 10m

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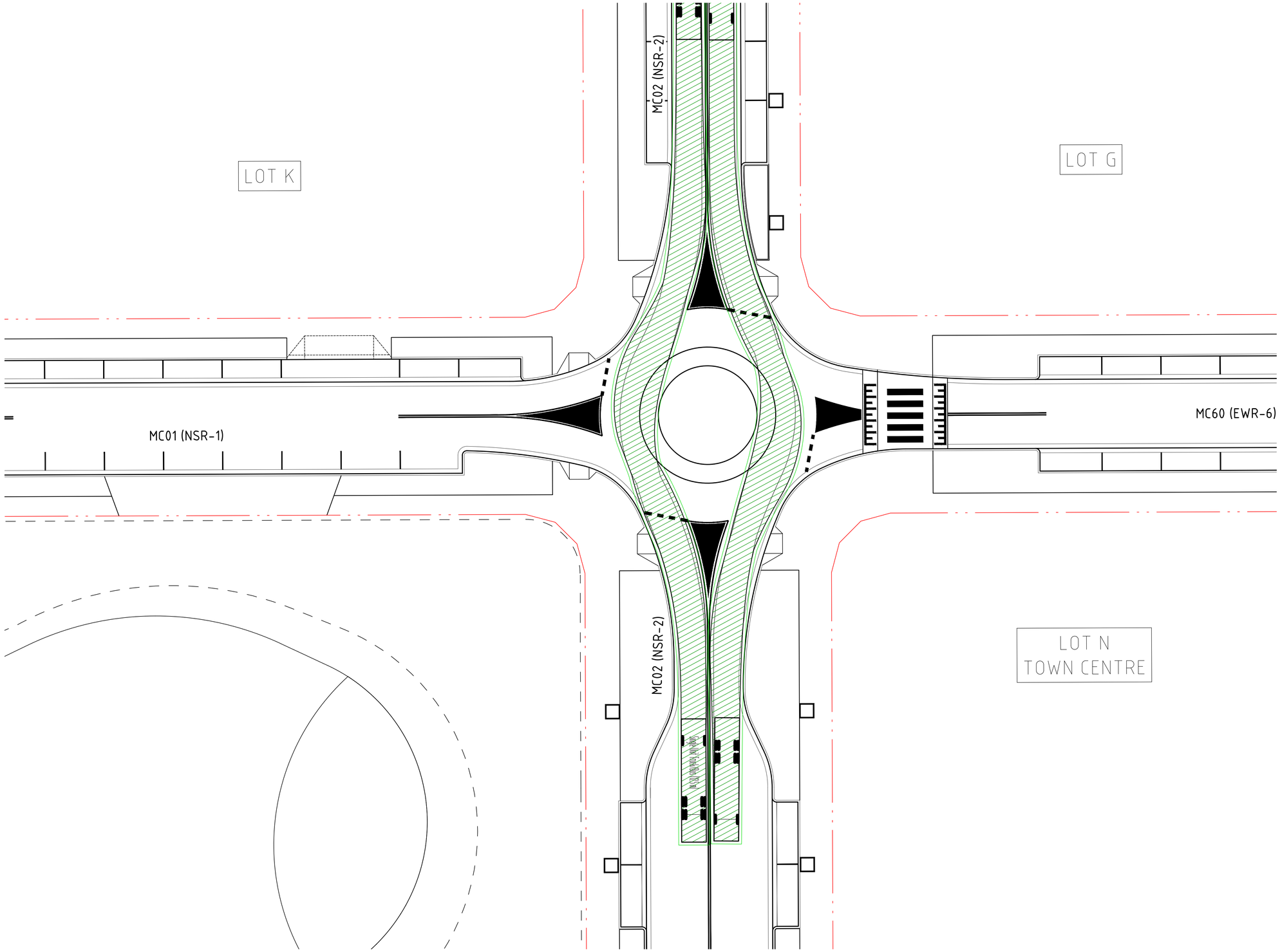
PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 27

JOB NUMBER 150077-60
DRAWING NUMBER C10.27
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 10:07:39 AM By: Brandon Mazza
File Name: R:\Projects\150077-60 Melrose Park Infrastructure DA - 2021\10-Drawings\Civil\150077-60 CAD\01 CAD\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

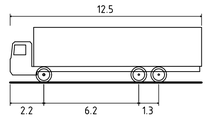
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




SINGLE UNIT TRUCK/BUS (12.5 m)

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.490m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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SCALE 1:200@ A1 (0 2 4 6 8 10m)

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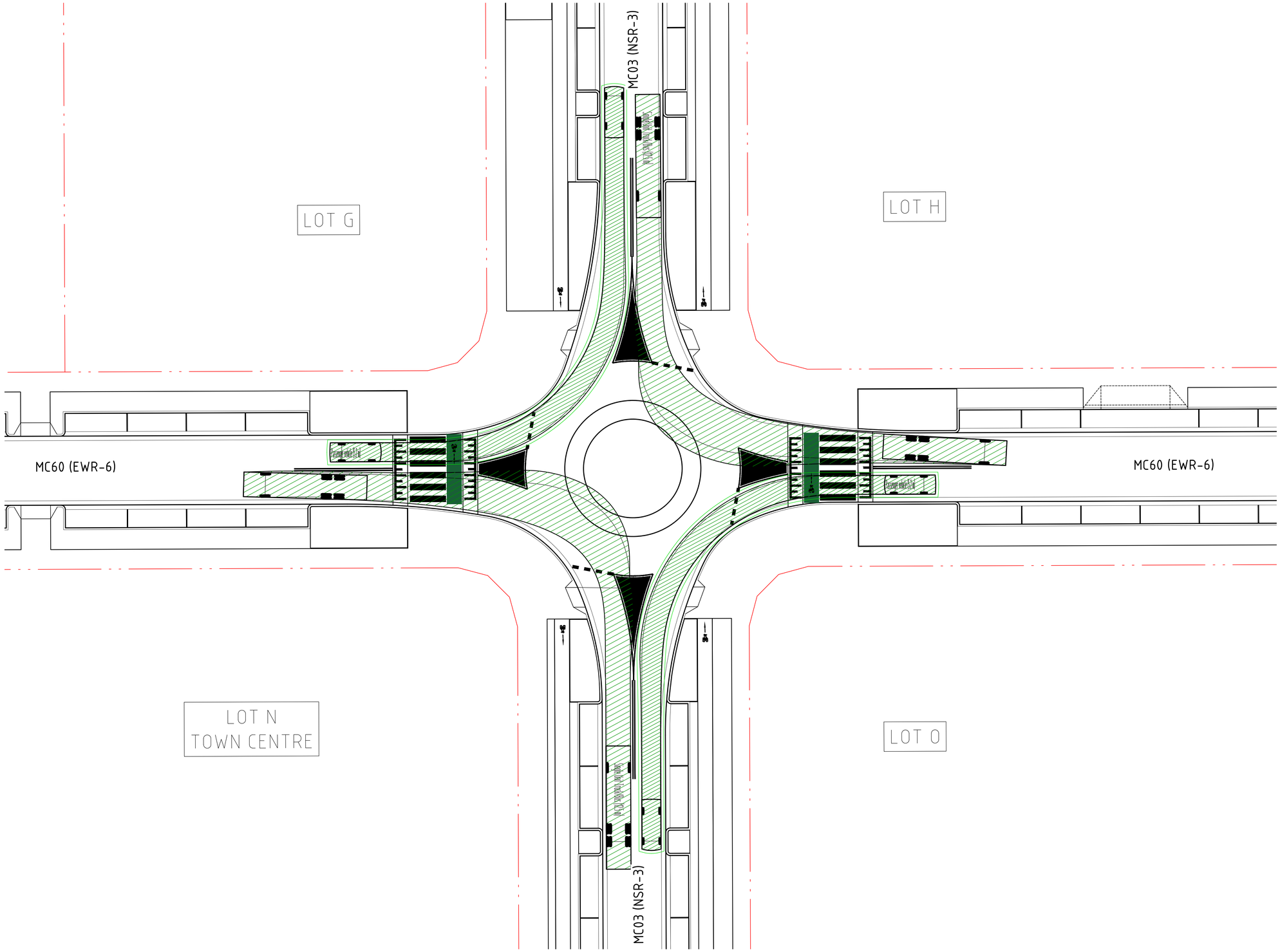
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 28

JOB NUMBER 150077-60
DRAWING NUMBER C10.28
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 8:00:07 AM - Melrose Park Infrastructure DA - 2021\10-Drawings\C-Civil\150077-60 Civil\150077-60 SWEPT PATHS_C10.01.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

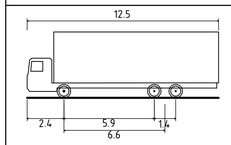
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 03 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 04 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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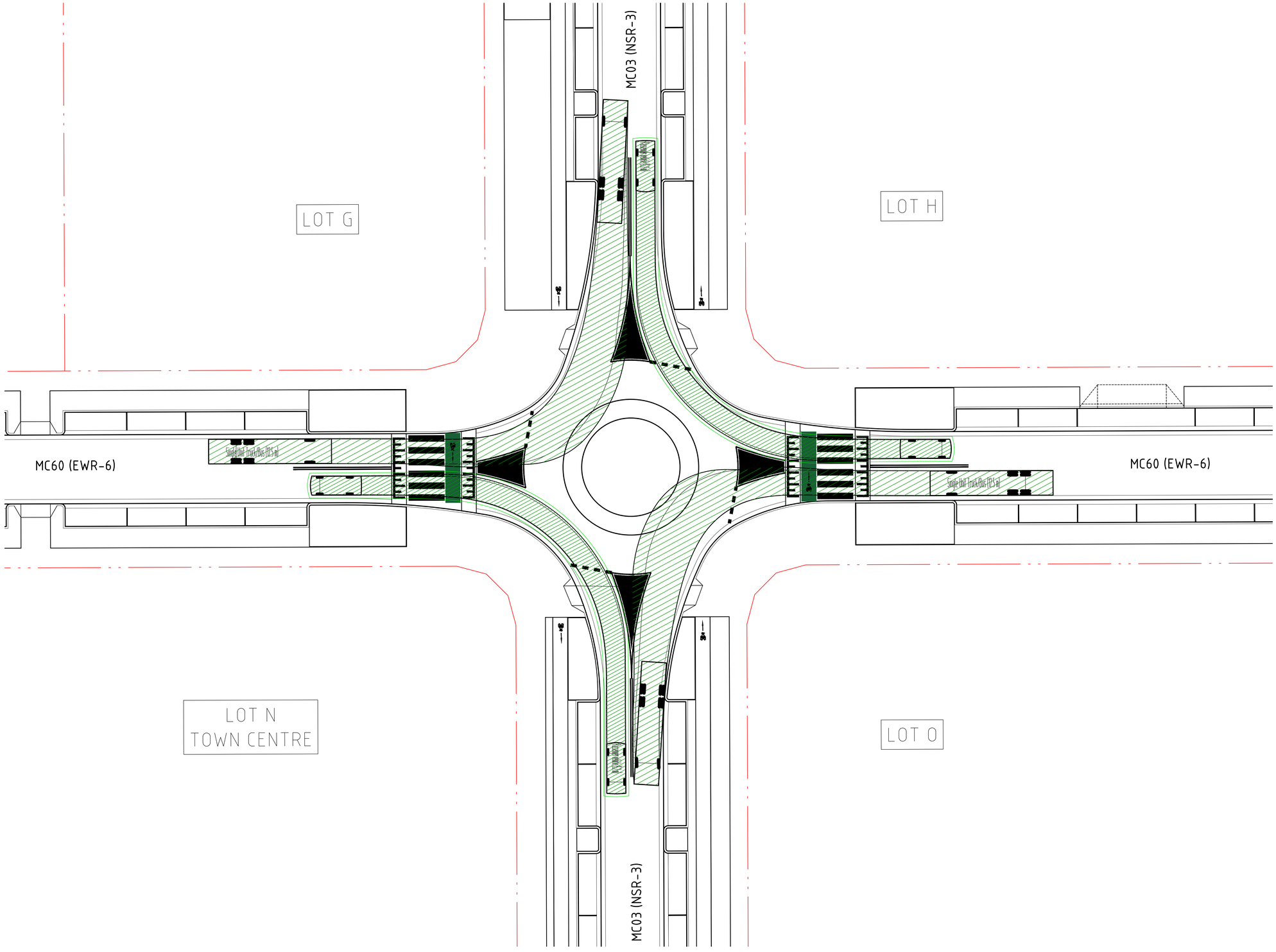
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 29

JOB NUMBER 150077-60
DRAWING NUMBER C10.29
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:00:00 AM - Melrose Park Infrastructure DA - 150077-60\Drawings\C10\150077-60 C10 SWEPT PATHS PLAN - SHEET 29_C10.01.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

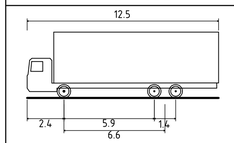
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

### PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




### HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 04 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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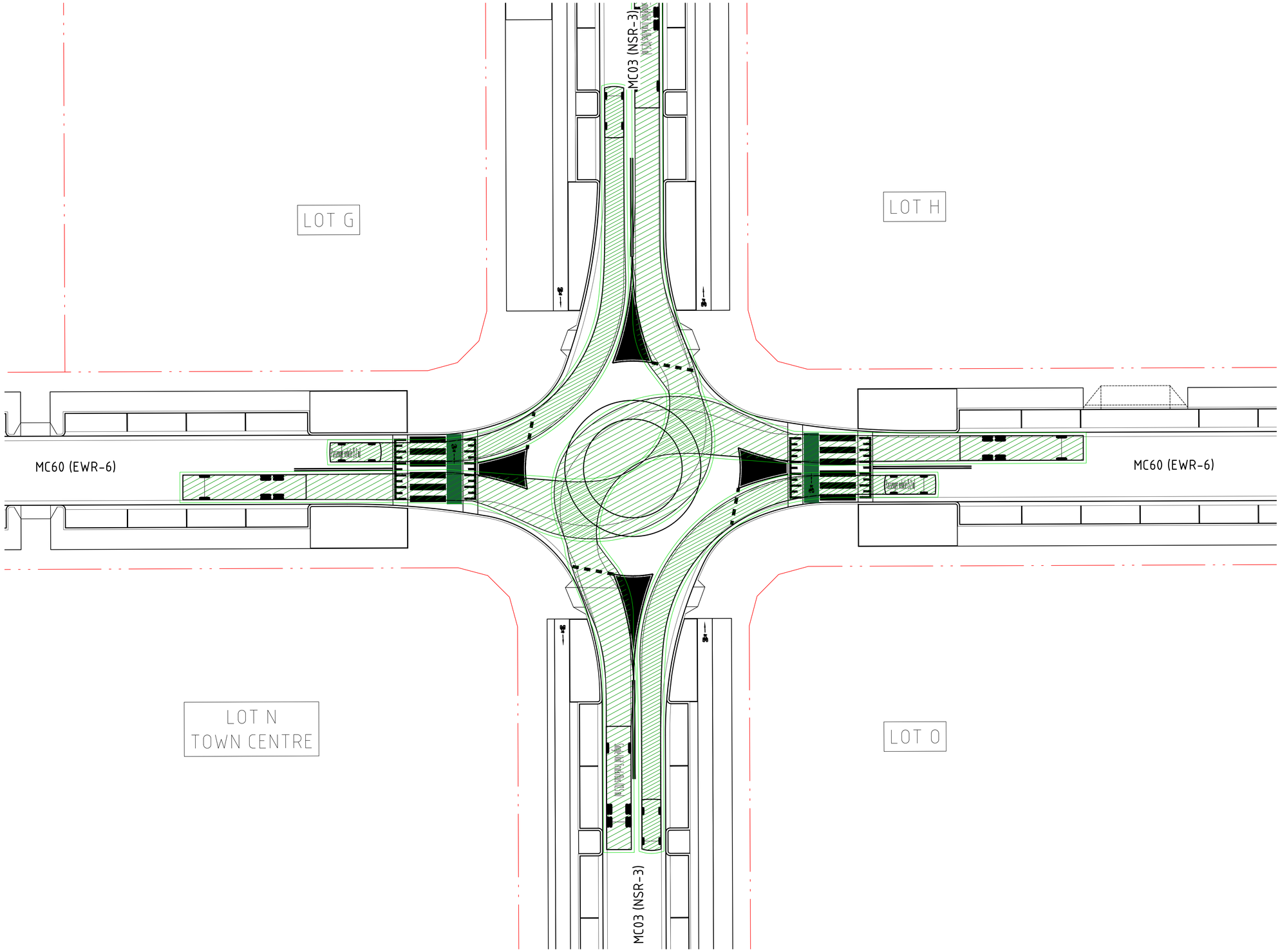
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 30

JOB NUMBER 150077-60
DRAWING NUMBER C10.30
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 8:08:07 AM By: Andrew Park Infrastructure DA - 2021\150077\Drawings\C-Civil\150077-REV07\CAD\STAGE\150077-REV07-SHEET 30_C10.30.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

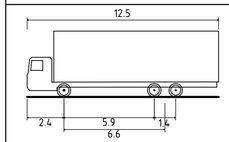
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

### PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




### HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

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| 05 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 06 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 07 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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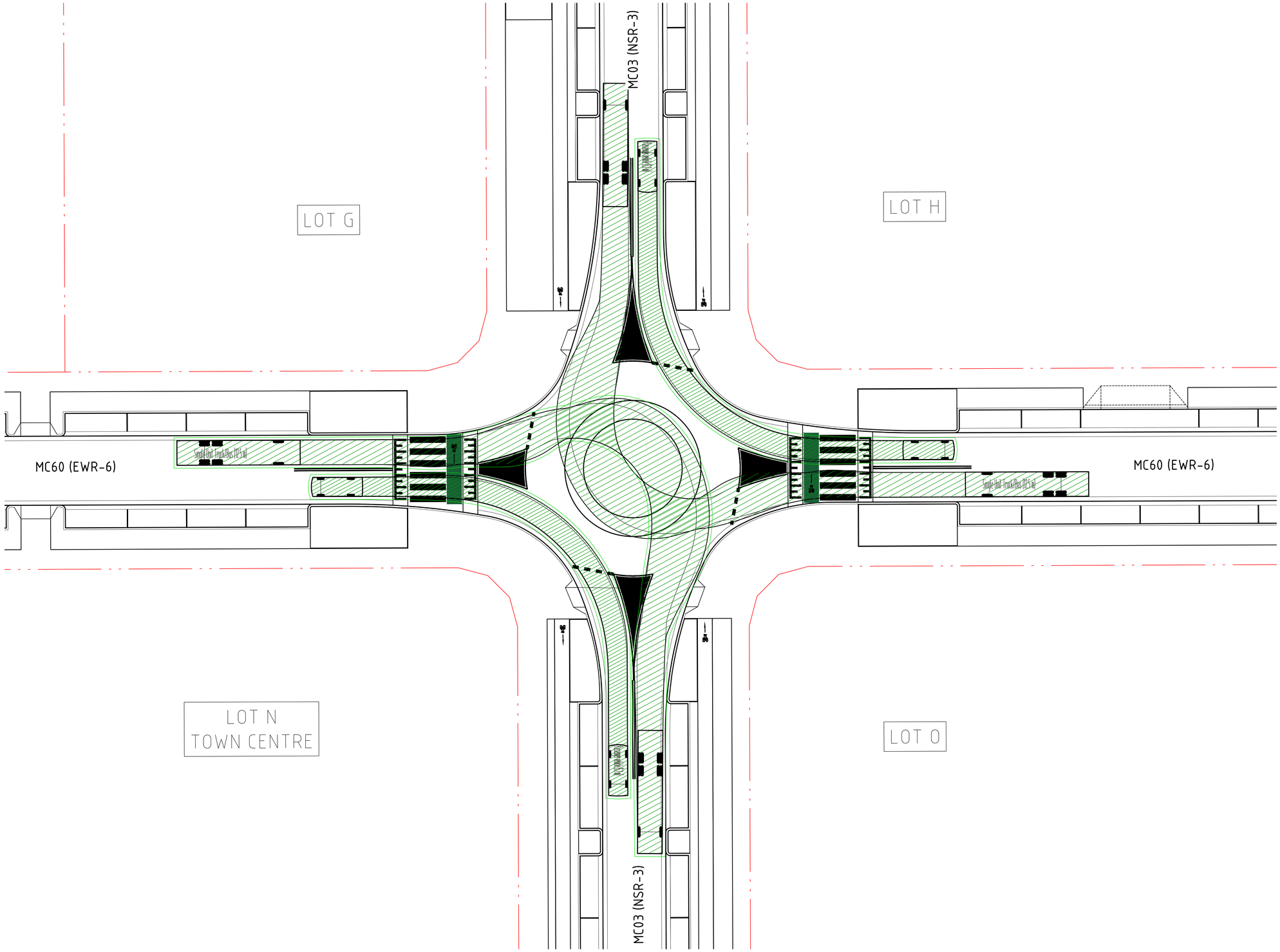
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 31

JOB NUMBER 150077-60
DRAWING NUMBER C10.31
REVISION 07
DRAWING SHEET SIZE = A1

Plotted: 7/10/2023 8:00:00 AM - Melrose Park Infrastructure DA - 2021\10-Drawings\C-Civil\150077-60 CAD\150077-60 C10.01.dwg




## VEHICLE MOVEMENTS

FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

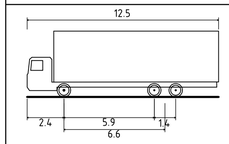
VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE

PASSENGER VEHICLE (5.2 m)

| | |
|---|---|
| OVERALL LENGTH | 5.200m |
| OVERALL WIDTH | 1.940m |
| OVERALL BODY HEIGHT | 1.804m |
| MIN BODY GROUND CLEARANCE | 0.295m |
| TRACK WIDTH | 1.840m |
| LOCK-TO-LOCK TIME | 4.00s |
| CURB TO CURB TURNING RADIUS | 6.300m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

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| 02 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 03 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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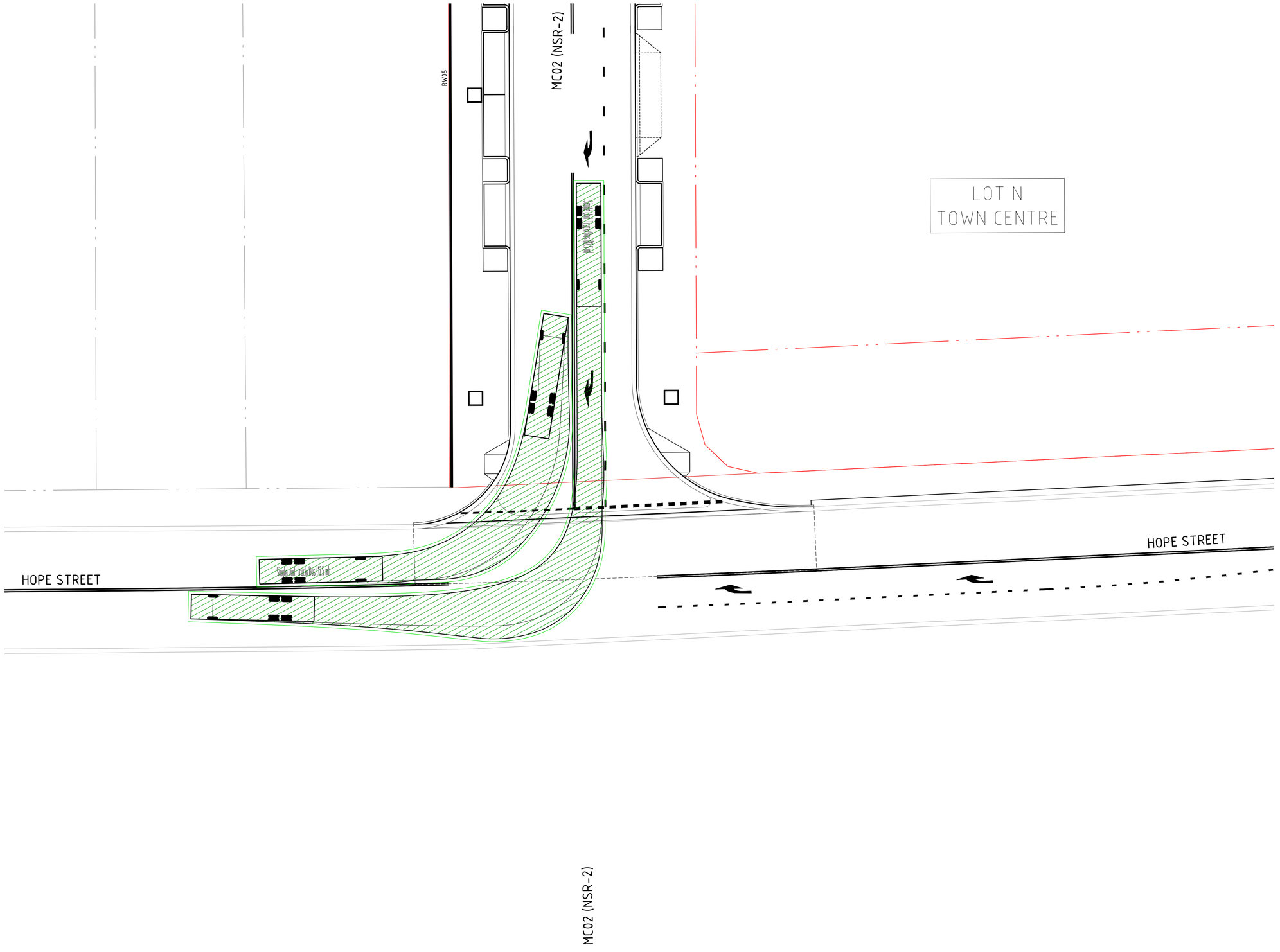
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 32

JOB NUMBER 150077-60
DRAWING NUMBER C10.32
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:08:07 AM - Melrose Park Infrastructure DA - 150077\Drawings\Civil\150077-60 CIVIL\150077-60 C10.32 swp




## VEHICLE MOVEMENTS

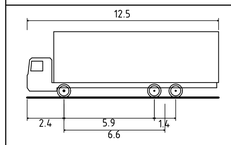
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

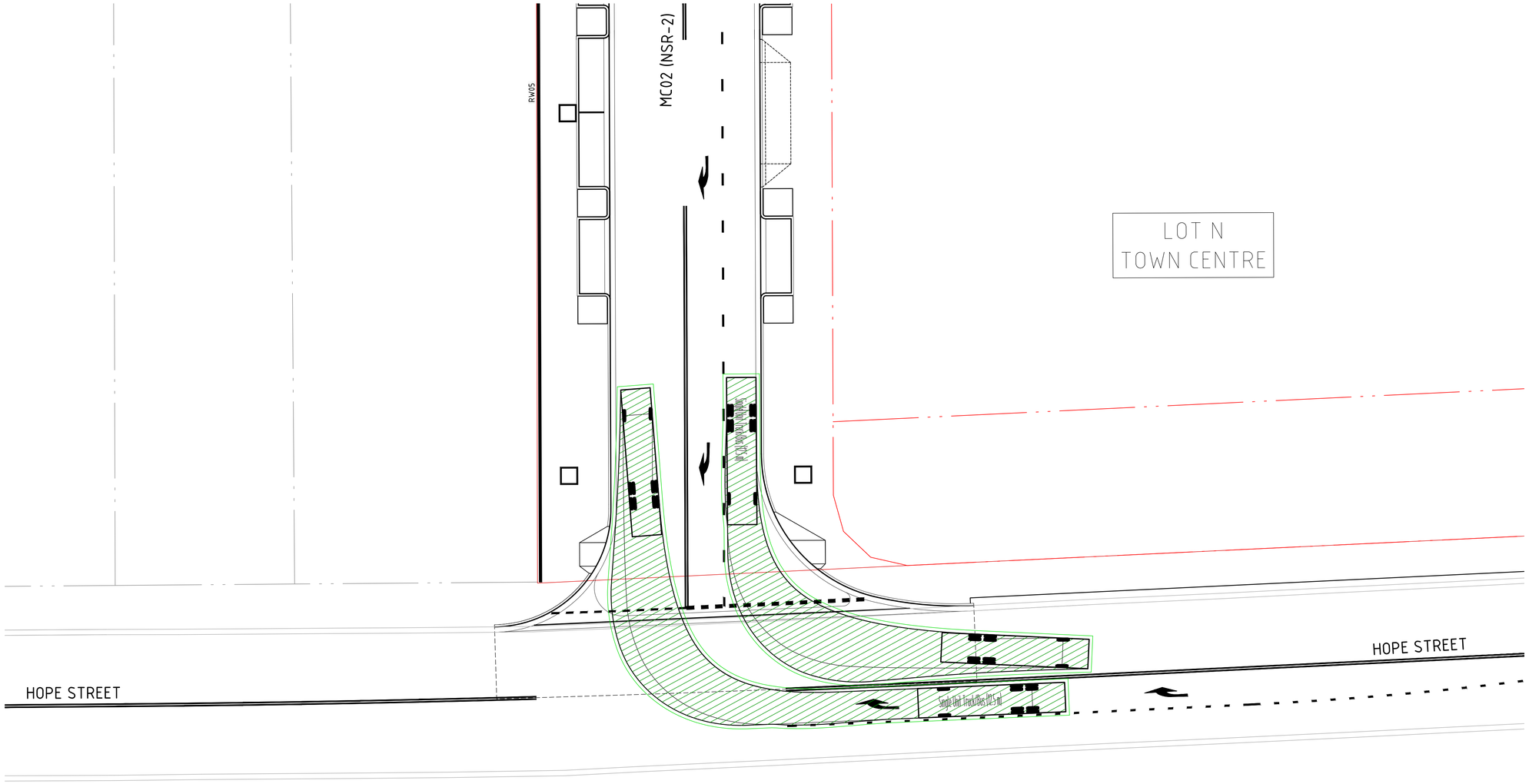
**SWEPT PATHS PLAN - SHEET 33**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.33** REVISION **06**

DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 10:07:07 AM - Melrose Park Infrastructure DA - 2021\Drawings\Civil\150077-60 CADD\Plan\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

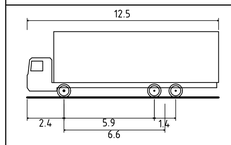
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 34

JOB NUMBER 150077-60
DRAWING NUMBER C10.34
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 8:39:37 AM By: Brandon Mazza
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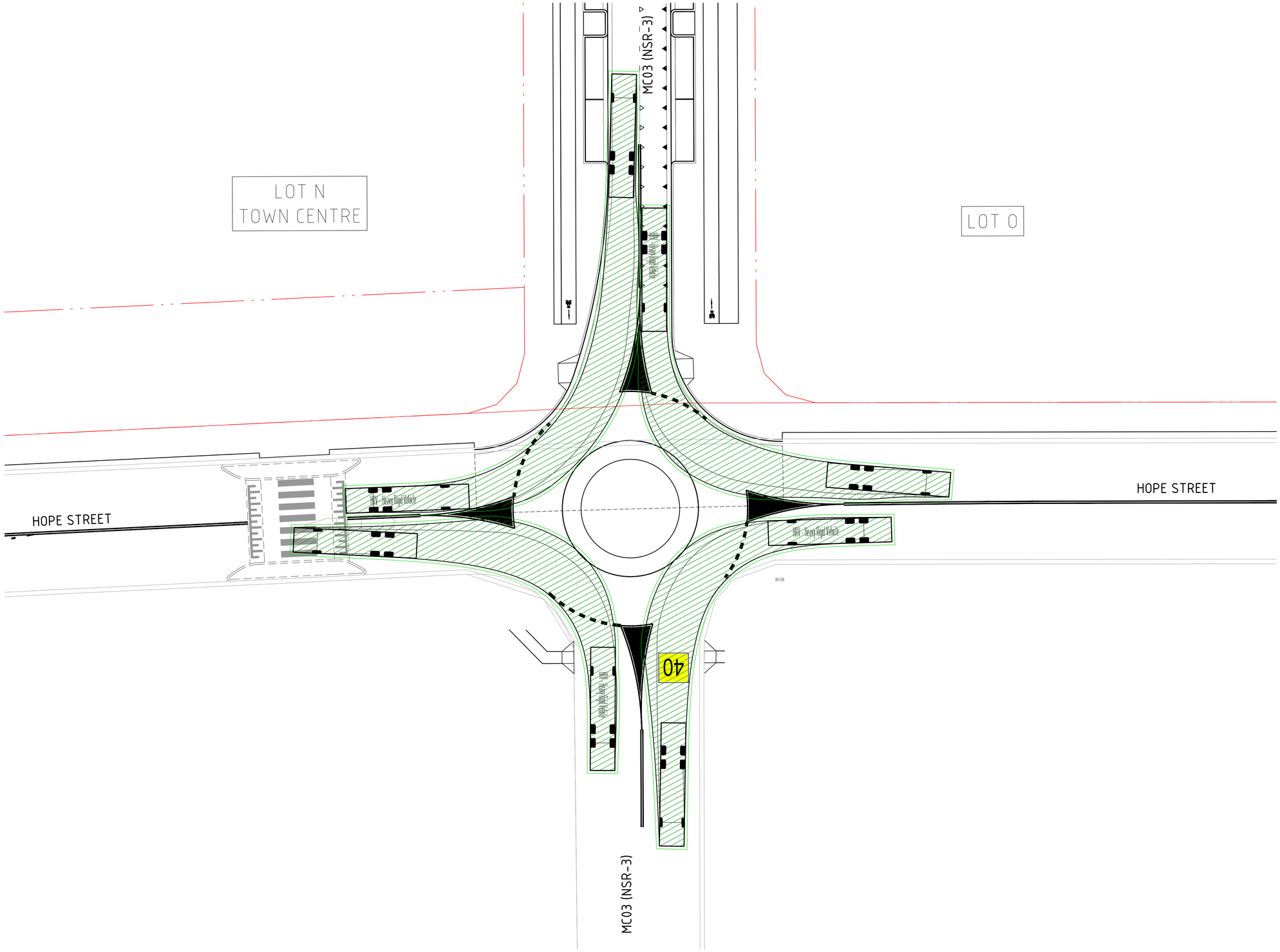



## VEHICLE MOVEMENTS

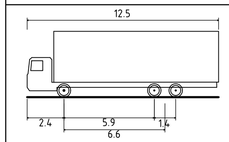
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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|---|---|---|---|---|---|
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SCALE 1:200@ A1 0 2 4 6 8 10m

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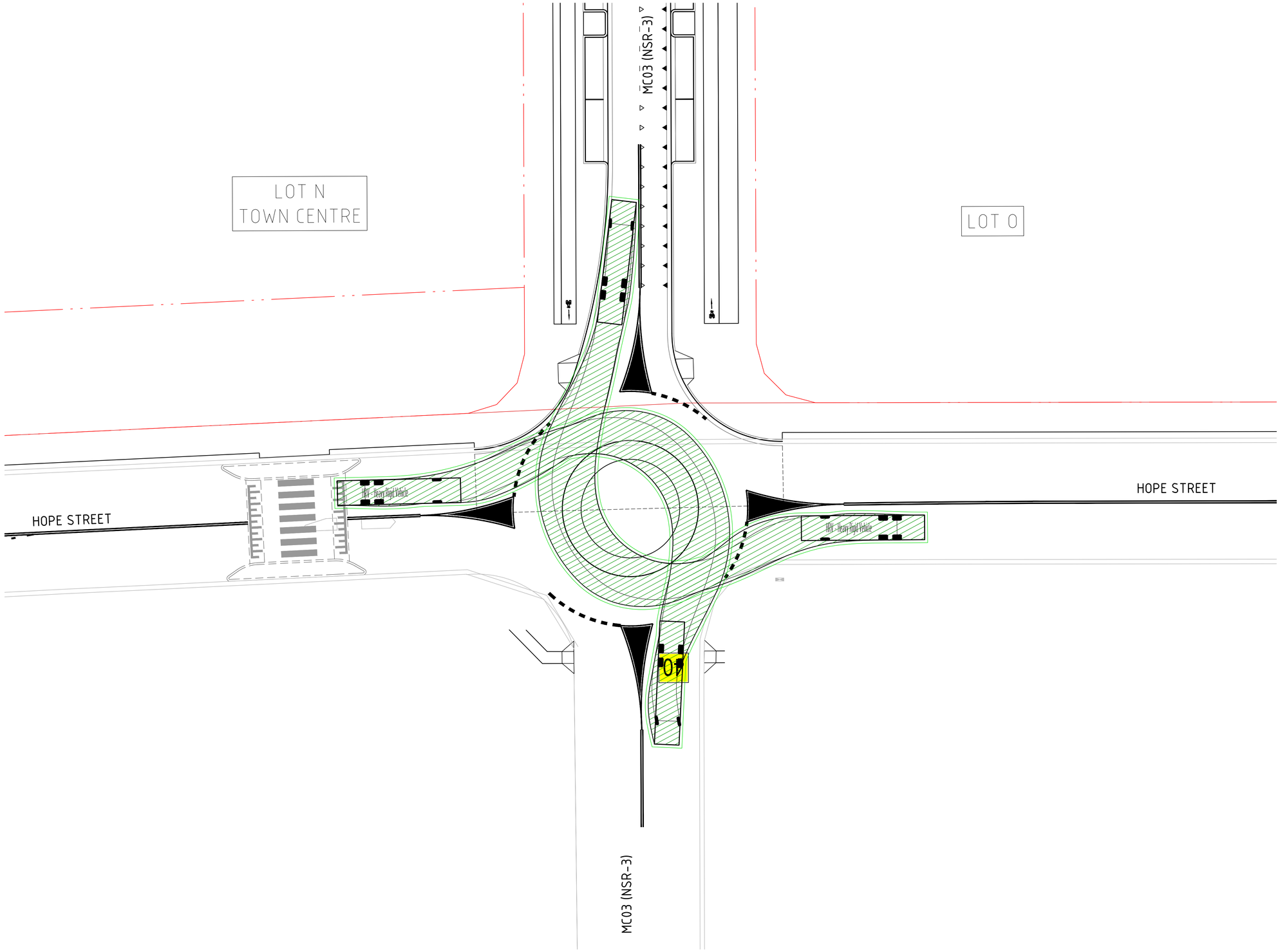
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 35

JOB NUMBER 150077-60
DRAWING NUMBER C10.35
REVISION 06
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 7:58:07 AM By: Andrew Rivett
File Name: R:\150077-Melrose Park Infrastructure DA - 2021\10-Drawings\CC\150077-60 CAD\10 Civil\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

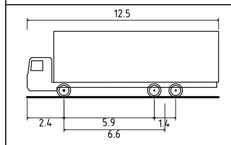
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | ISSUED FOR DA | BM | | AR | 29.11.21 |
| 02 | REISSUED FOR DA | BM | | AR | 24.01.22 |
| 03 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 04 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 05 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 06 | REISSUED FOR DA | BM | | AR | 06.10.23 |

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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

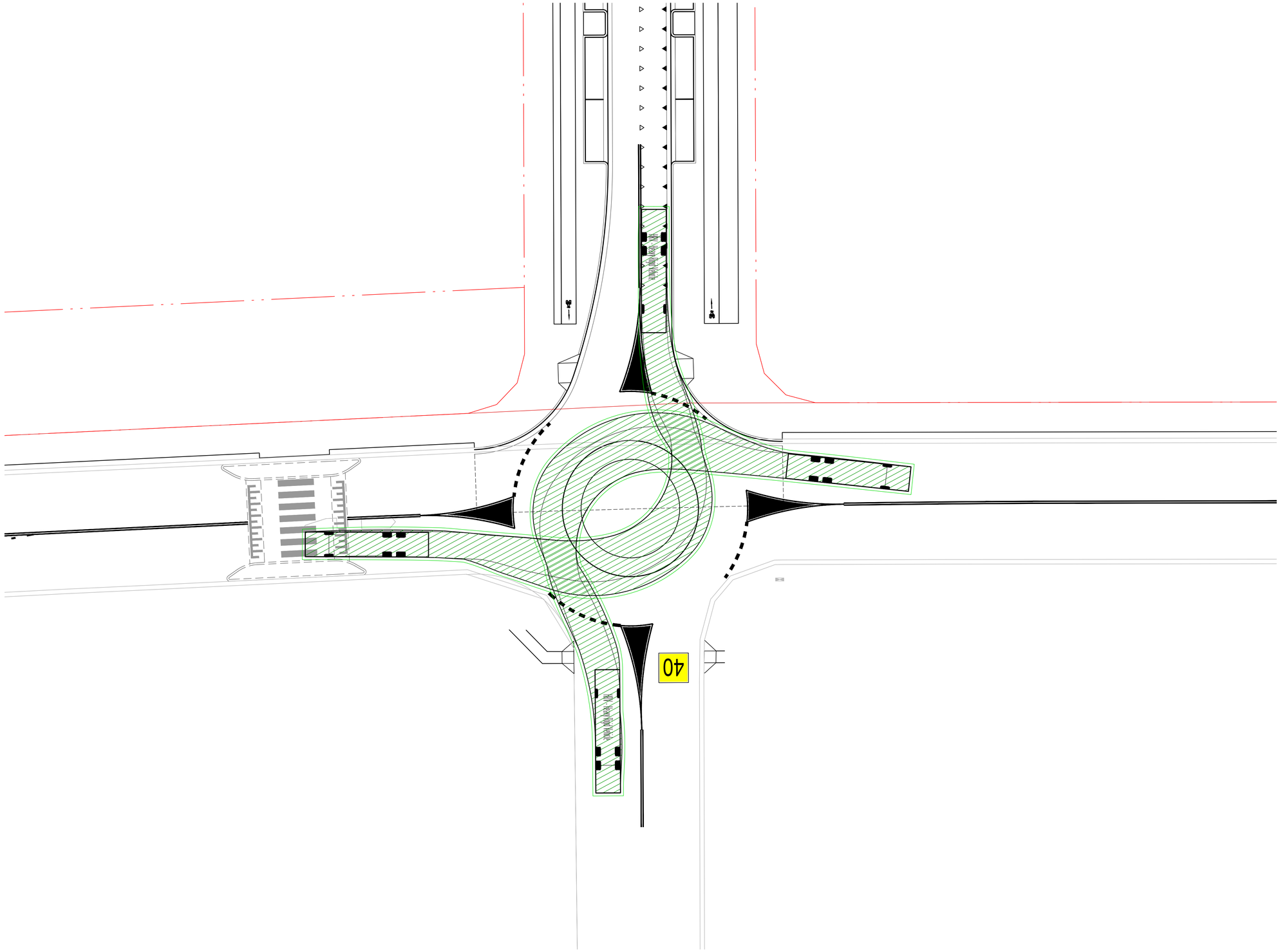
SWEPT PATHS PLAN - SHEET 36

JOB NUMBER 150077-60

DRAWING NUMBER C10.36 | REVISION 06

DRAWING SHEET SIZE = A1

Plotted: 7/12/2023 8:00:17 AM | By: Melissa Park Infrastructure DA - 2021\150077-60 CAD\150077-60 C10.01.dwg




## VEHICLE MOVEMENTS

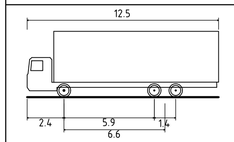
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE
(0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | REISSUED FOR DA | BM | | AR | 11.03.22 |
| 02 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 03 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 04 | REISSUED FOR DA | BM | | AR | 13.02.23 |
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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

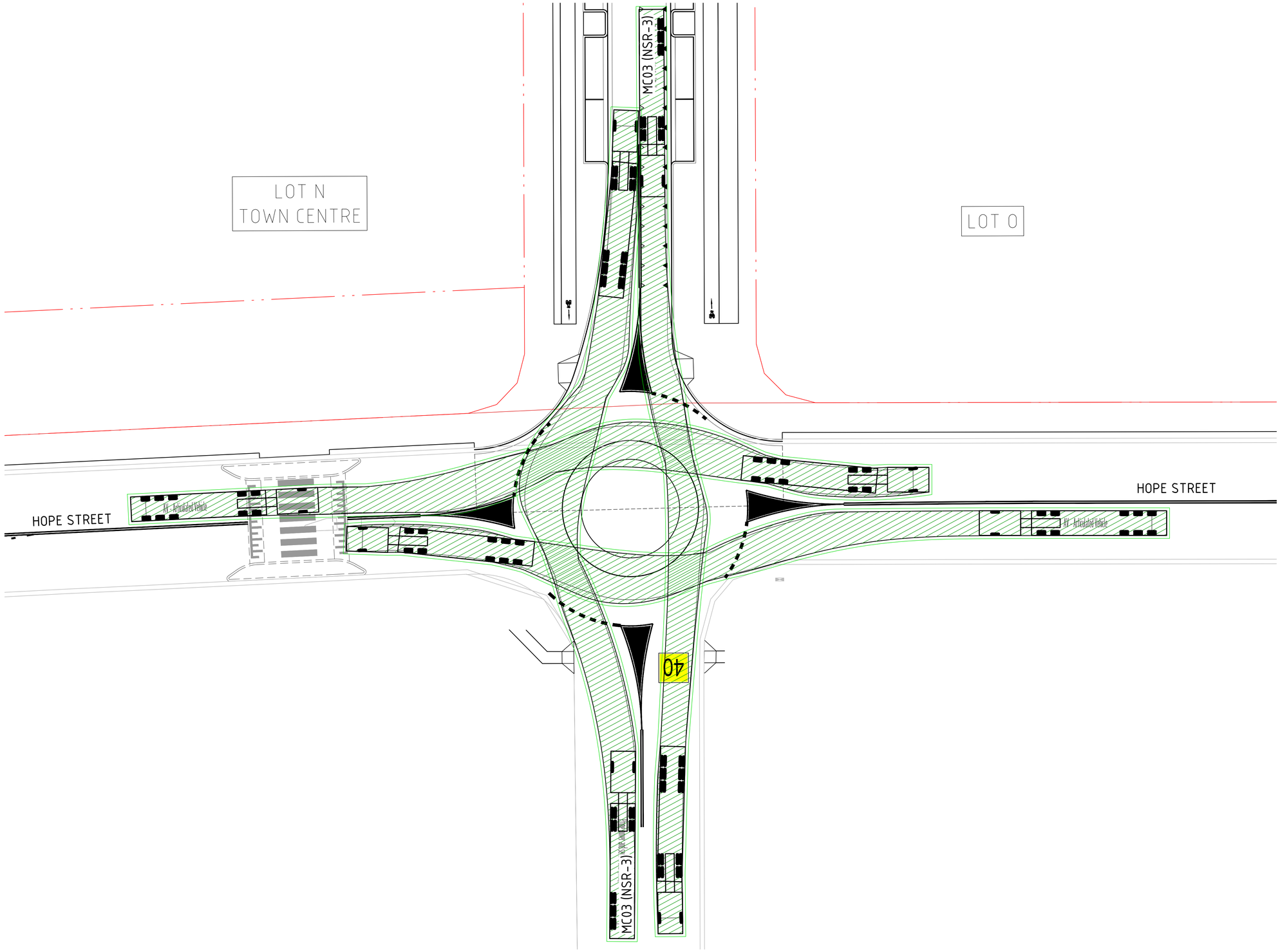
**SWEPT PATHS PLAN - SHEET 37**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.37** REVISION **04**

DRAWING SHEET SIZE = A1

Issued: 19 Dec 22 2:00:00 AM by: Melrose Park Infrastructure DA - 150770\drawings\civil\150077-60 CADINT\150077-60_C10.37.dwg




## VEHICLE MOVEMENTS

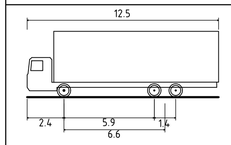
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

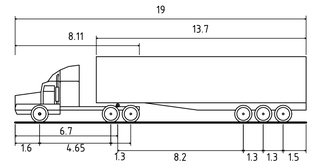
## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

## VEHICLE PROFILE




PRIME MOVER AND SEMI TRAILER (19m)

| | |
|---|---|
| OVERALL LENGTH | 19.000m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.540m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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|---|---|---|---|---|---|
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| 03 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
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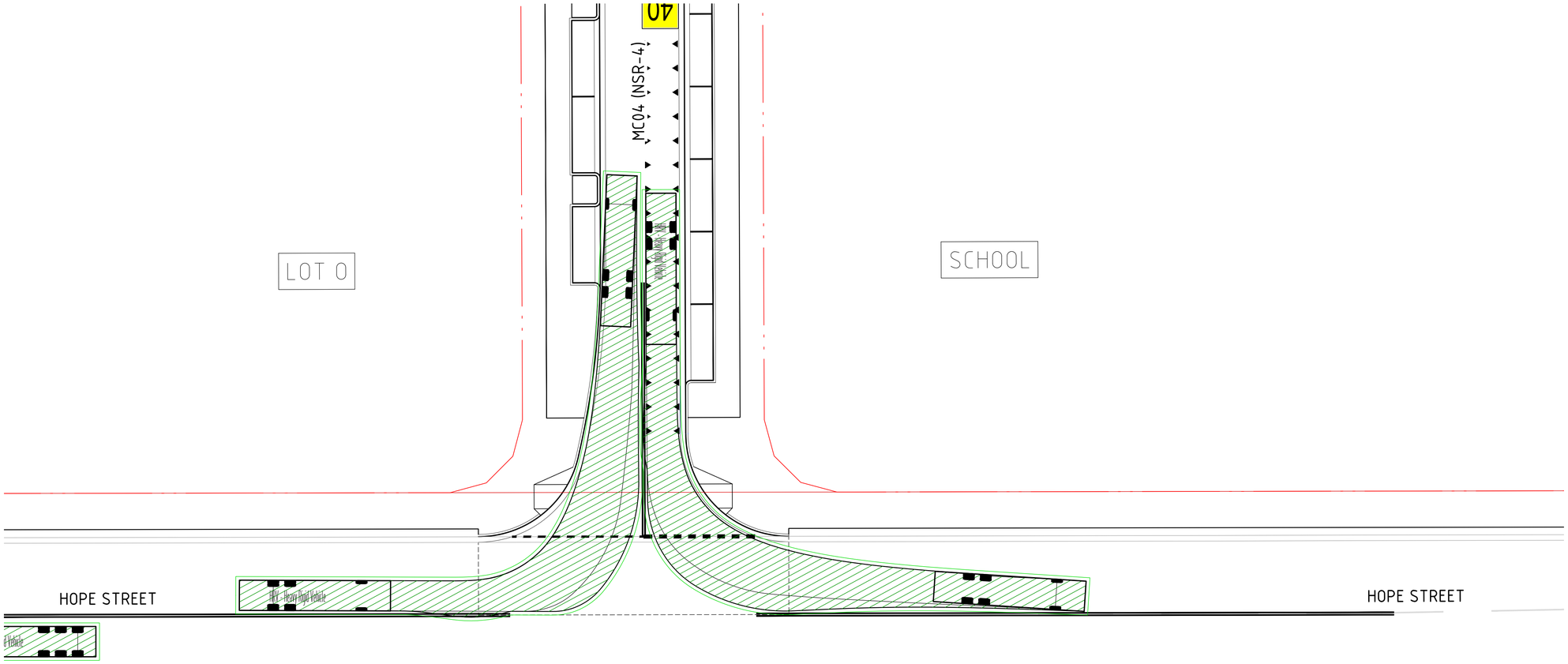
Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 38

JOB NUMBER 150077-60
DRAWING NUMBER C10.38
REVISION 04
DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 10:07:17 AM | By: Andrew Rivett | File: R:\150077-Melrose Park Infrastructure DA - 2021\10-Drawings\CC\150077-60-CC10-SWEPT PATHS 38_C10.01.dwg




## VEHICLE MOVEMENTS

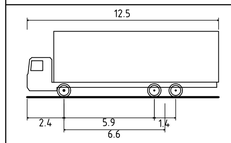
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 01 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 03 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
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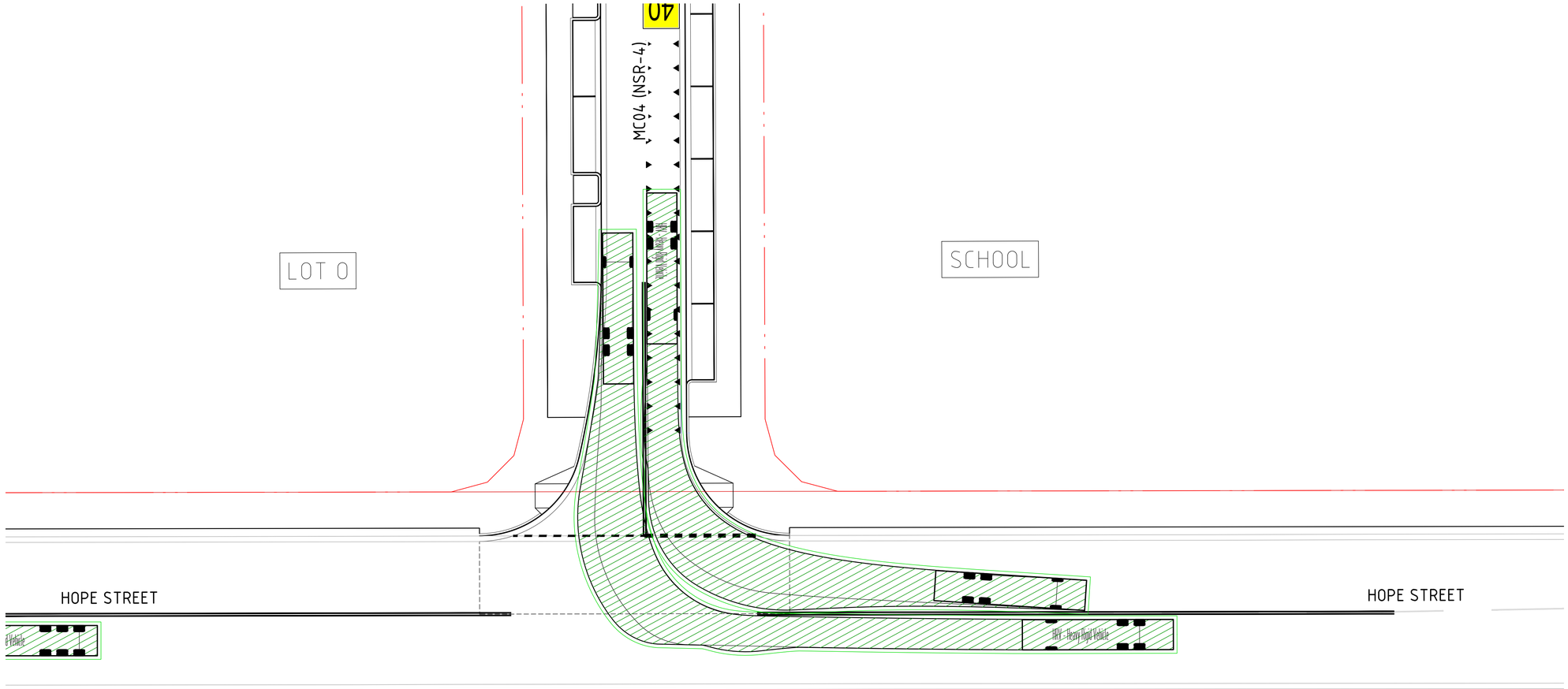
PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE
SWEPT PATHS PLAN - SHEET 39

JOB NUMBER 150077-60
DRAWING NUMBER C10.39
REVISION 04
DRAWING SHEET SIZE = A1

Plotted: 19 OCT 2023 - 10:07:10 C:\Users\bsmith\OneDrive - Northrop\Documents\Melrose Park Infrastructure DA - 150770\Drawings\Civil\150077-60 CAD\150077-DA-C10.39.dwg




## VEHICLE MOVEMENTS

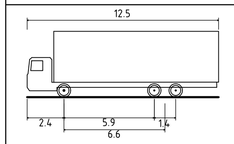
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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| 02 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 03 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

**SWEPT PATHS PLAN - SHEET 40**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.40**

REVISION **04**

DRAWING SHEET SIZE = A1

Plotted: 14 DEC 2023 @ 10:07:17 AM by Brian Mazza
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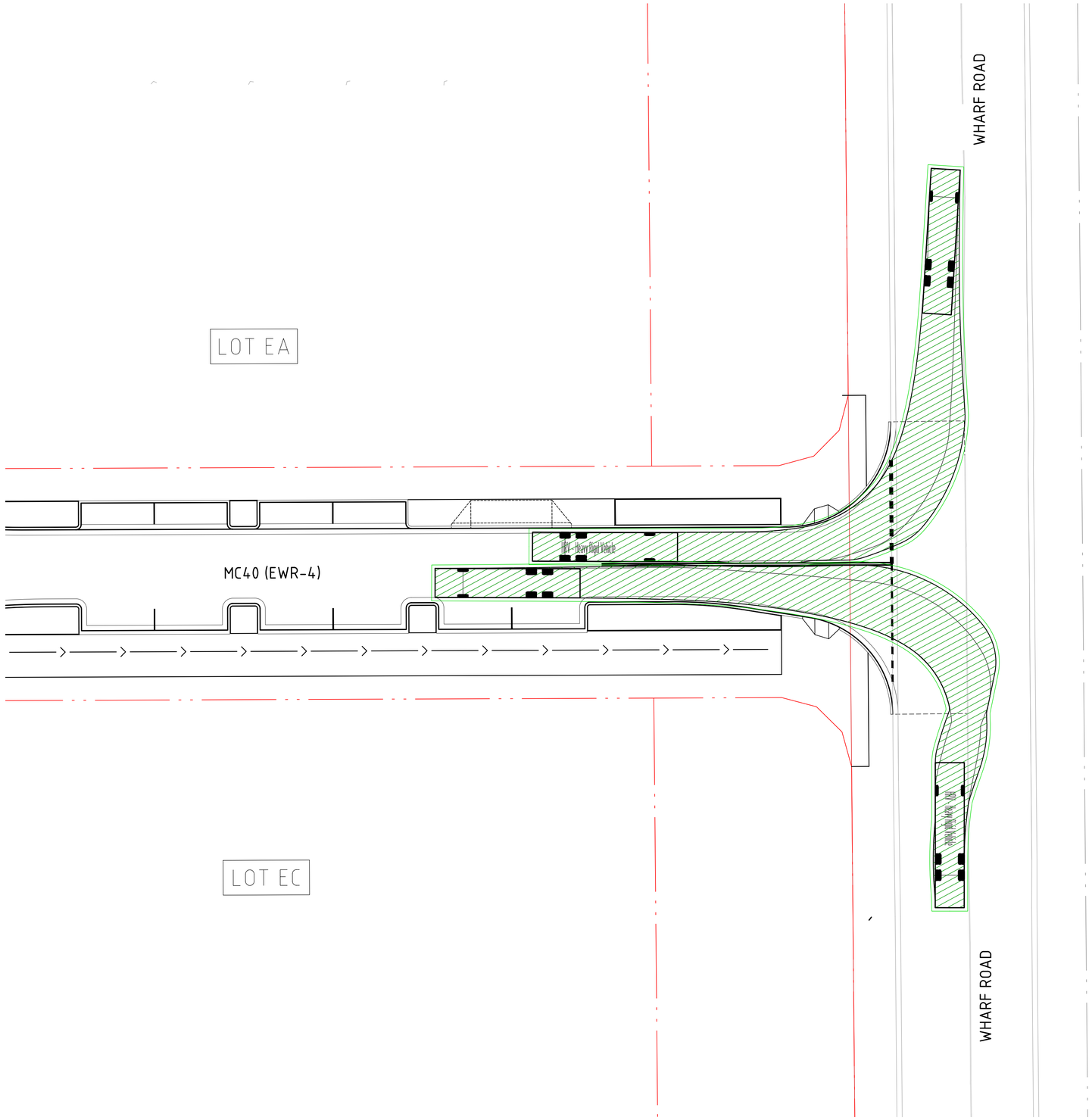



## VEHICLE MOVEMENTS

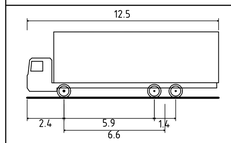
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
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| 01 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 03 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SWEPT PATHS PLAN - SHEET 41

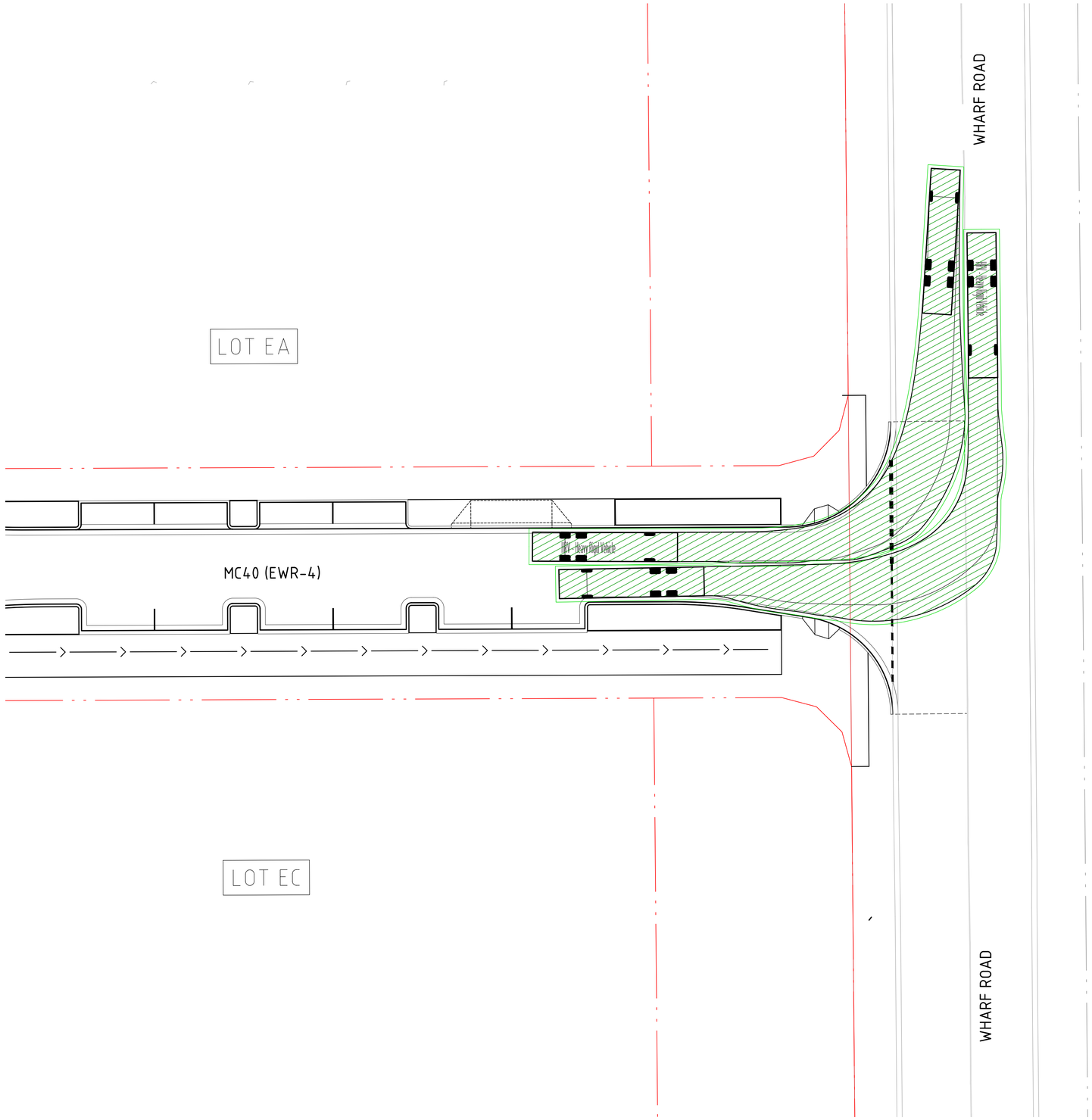
JOB NUMBER 150077-60

DRAWING NUMBER C10.41

REVISION 04

DRAWING SHEET SIZE = A1

Plotted: 6/10/2023 8:00:37 AM - By: Brandon Mazza - File Name: J:\150077 Melrose Park Infrastructure DA - 2021\10-Drawings\Civil\150077-60-CADD-DA\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

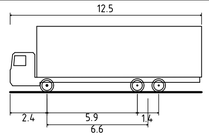
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 03 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
| | | | | | |
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PROJECT
MELROSE PARK
INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SWEPT PATHS PLAN - SHEET 42

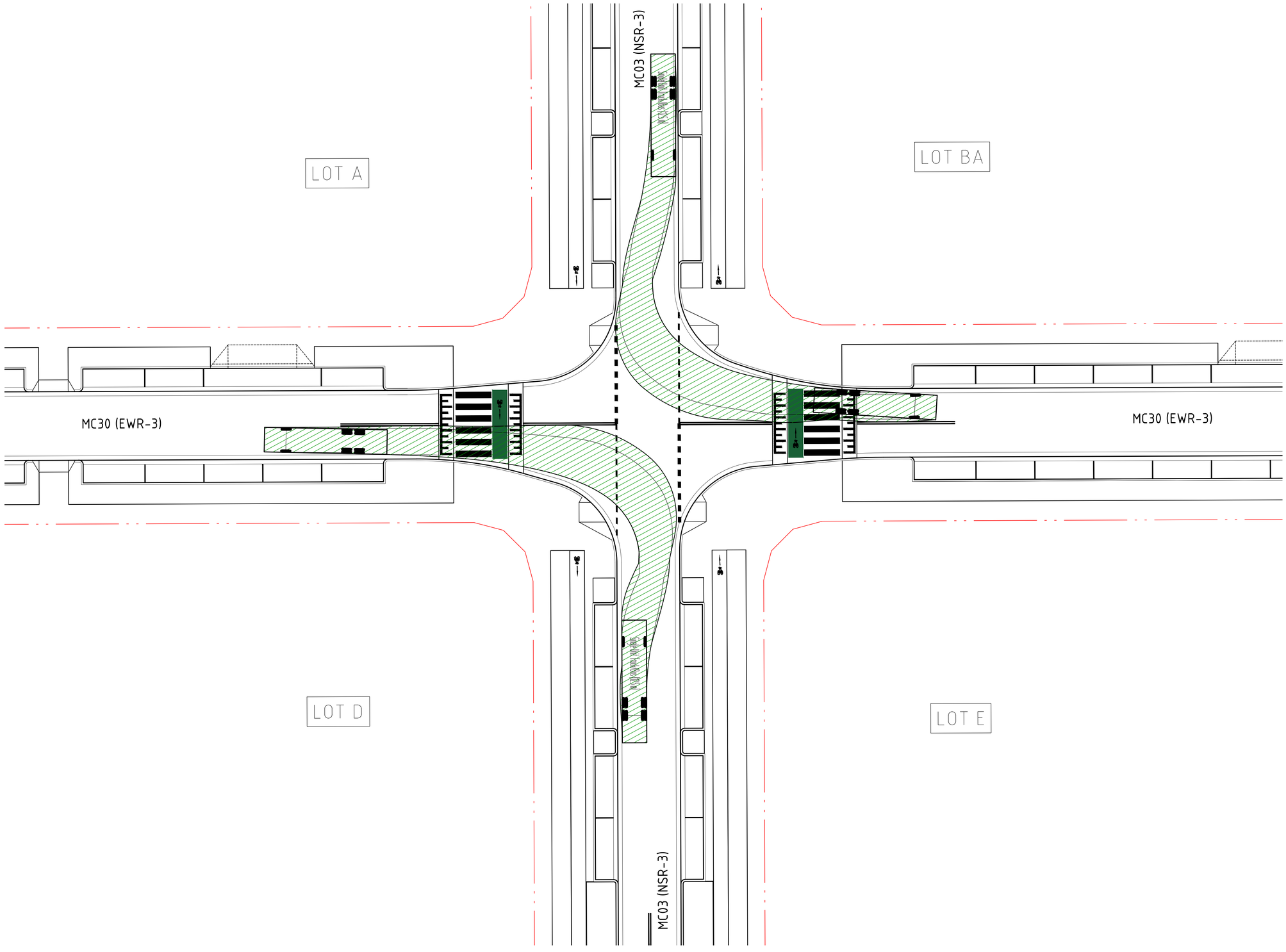
JOB NUMBER 150077-60

DRAWING NUMBER C10.42

REVISION 04

DRAWING SHEET SIZE = A1

Plotted: 7/02/2024 8:58:07 AM - Melrose Park Infrastructure DA - 2023\10 Drawings\C Civil\150077-60 CAD\150077-60 C10.01.dwg




## VEHICLE MOVEMENTS

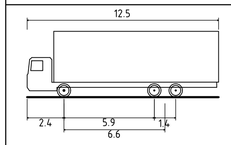
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

**NOT FOR CONSTRUCTION**

| REVISION | DESCRIPTION | ISSUED | VER'D | APP'D | DATE |
|---|---|---|---|---|---|
| 01 | DRAFT FOR INFORMATION | AS | | AR | 02.12.22 |
| 02 | REISSUED FOR DA | BM | | AR | 19.12.22 |
| 03 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

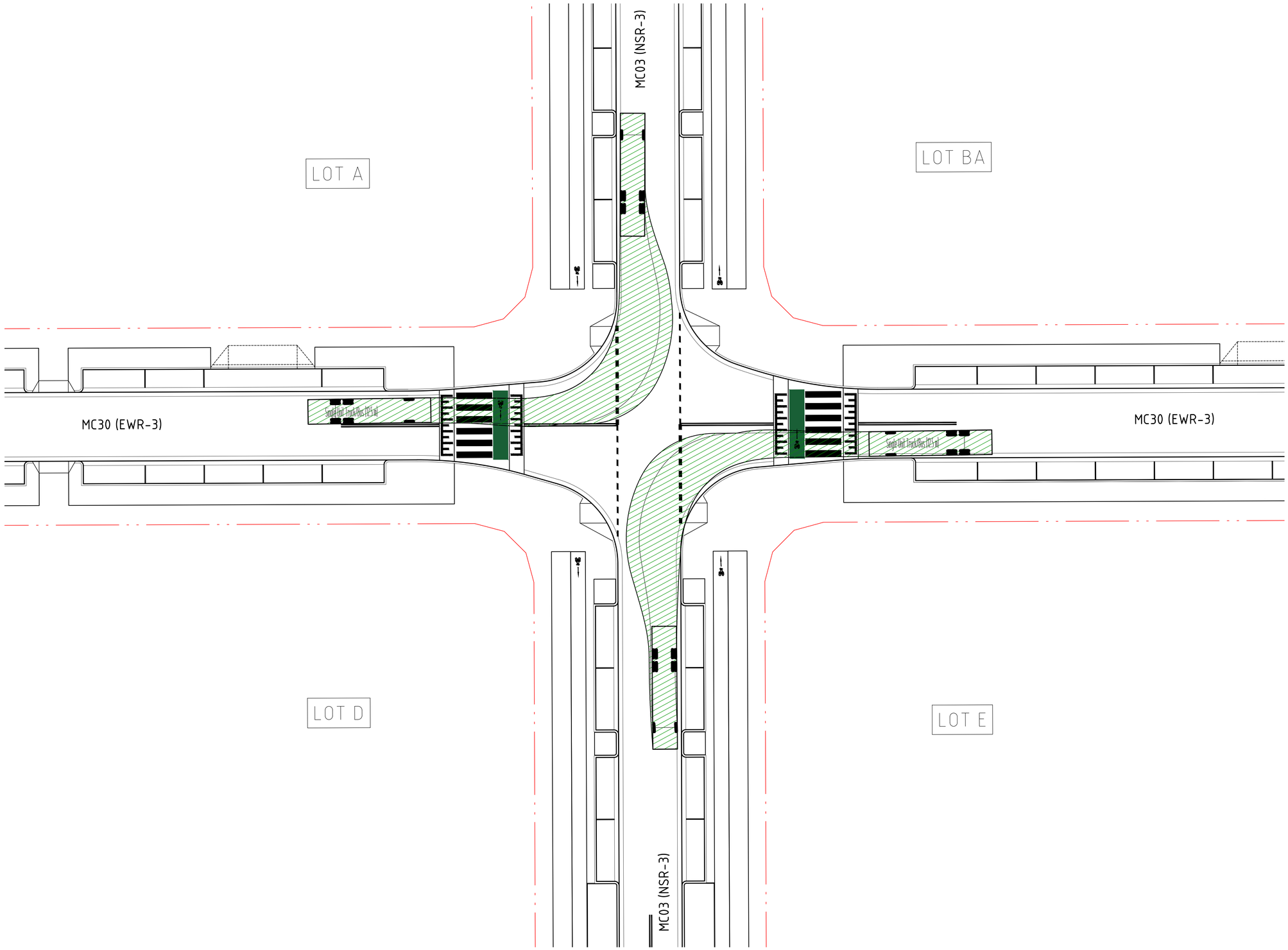
**SWEPT PATHS PLAN - SHEET 43**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.43** REVISION **04**

DRAWING SHEET SIZE = A1

Plotted: 7/02/2023 8:00:17 AM - Melrose Park Infrastructure DA - 2022 Drawings\Civil\150077-60 Melrose Park Infrastructure DA_C10.01.dwg




## VEHICLE MOVEMENTS

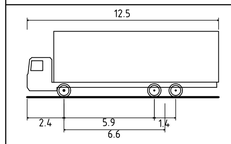
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

| | |
|---|---|
| OVERALL LENGTH | 12.500m |
| OVERALL WIDTH | 2.500m |
| OVERALL BODY HEIGHT | 4.300m |
| MIN BODY GROUND CLEARANCE | 0.417m |
| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 03 | REISSUED FOR DA | BM | | AR | 13.02.23 |
| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
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PROJECT
**MELROSE PARK INFRASTRUCTURE WORKS**

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE**

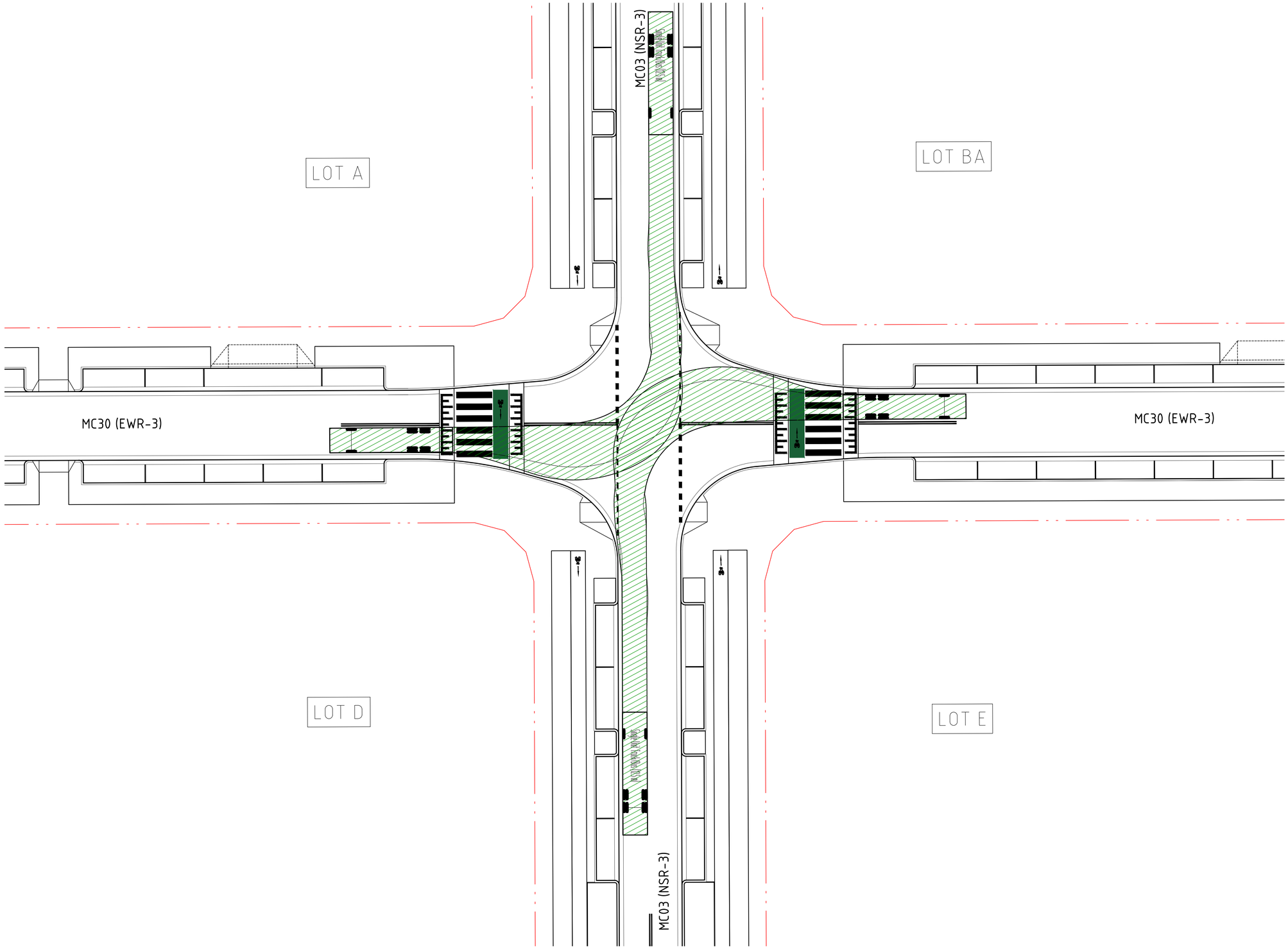
**SWEPT PATHS PLAN - SHEET 44**

JOB NUMBER **150077-60**

DRAWING NUMBER **C10.44** REVISION **04**

DRAWING SHEET SIZE = A1

Plotted: 14/12/2023 10:07:07 AM - Melrose Park Infrastructure DA - 150770\Drawings\Civil\150077-60 CADD\DA\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

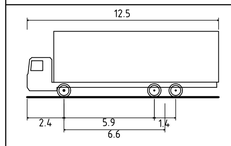
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

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|---|---|
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| TRACK WIDTH | 2.500m |
| LOCK-TO-LOCK TIME | 6.00s |
| CURB TO CURB TURNING RADIUS | 12.500m |
| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
| | | | | | |
| | | | | | |

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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SWEPT PATHS PLAN - SHEET 45

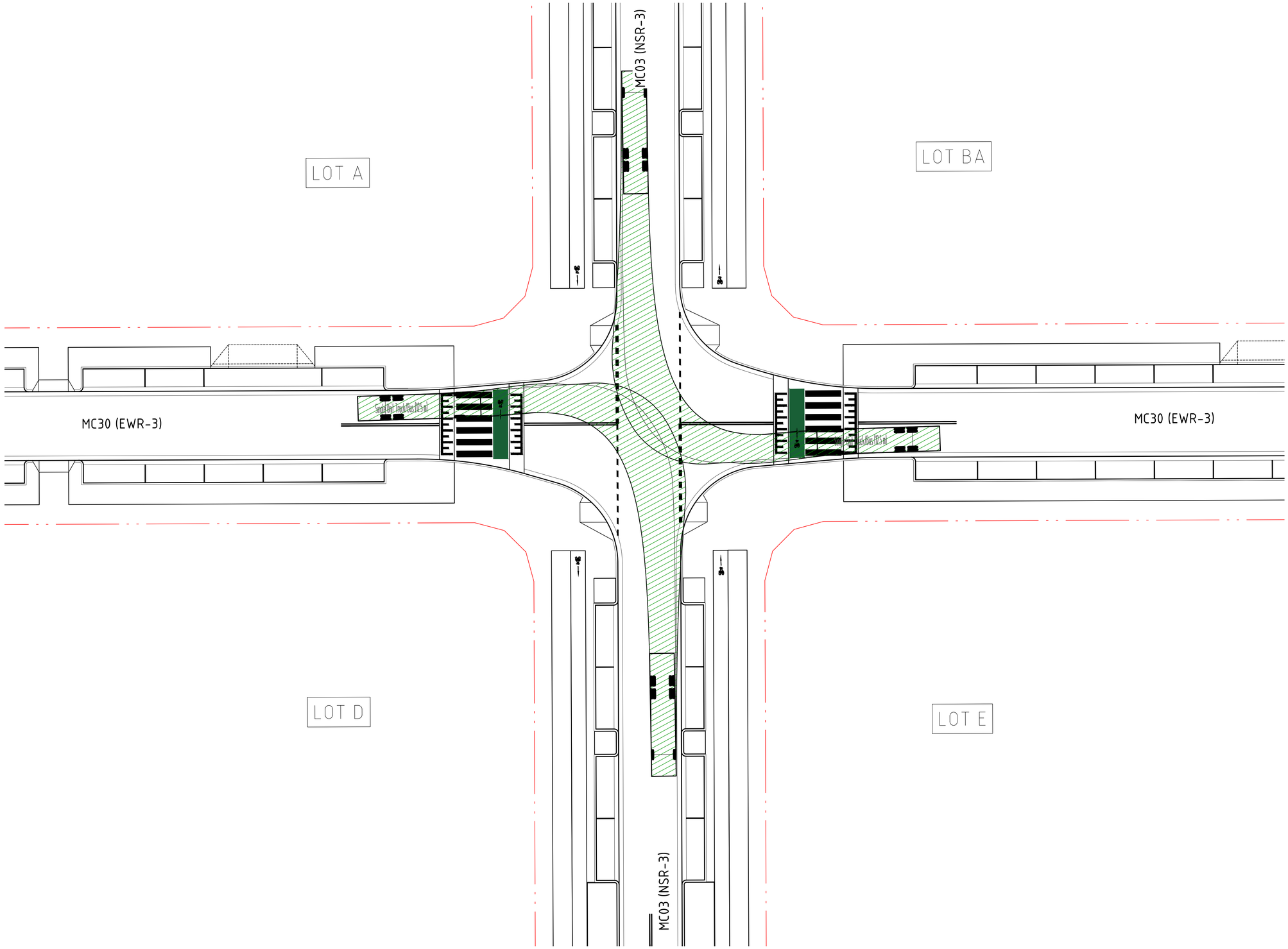
JOB NUMBER 150077-60

DRAWING NUMBER C10.45

REVISION 04

DRAWING SHEET SIZE = A1

Plotted: 19 DEC 2023 @ 09:07:40 | Melrose Park Infrastructure DA - 2021\10-Drawings\20-Civil\150077-60 CADD\150077-60_C10.01.dwg




## VEHICLE MOVEMENTS

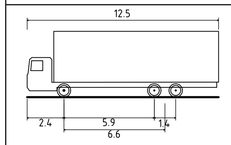
FORWARD MOVEMENT

VEHICLE BODY

VEHICLE WHEELS

VEHICLE VERTICAL CLEARANCE (0.3m FROM BODY)

## VEHICLE PROFILE




HRV - HEAVY RIGID VEHICLE

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|---|---|
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| OVERALL BODY HEIGHT | 4.300m |
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| LOCK-TO-LOCK TIME | 6.00s |
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| TRAVELLING SPEED | 10 km/h |

DRAWN: B.MAZZA DESIGNED: A.RIVETT JOB MANAGER: P.SUTTON VERIFIER: -

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| 04 | REISSUED FOR DA | BM | | AR | 06.10.23 |
| | | | | | |
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PROJECT
MELROSE PARK INFRASTRUCTURE WORKS

DRAWING TITLE
CIVIL ENGINEERING PACKAGE

SWEPT PATHS PLAN - SHEET 46

JOB NUMBER 150077-60

DRAWING NUMBER C10.46 | REVISION 04

DRAWING SHEET SIZE = A1

Plotted: 14 DEC 2023 10:09:17 AM | By: Adam Rivett | File: J:\150077\Civil\Drawings\DA Submission\150077-60 CAD\C10.DA\150077-60_C10.46.dwg