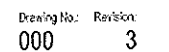
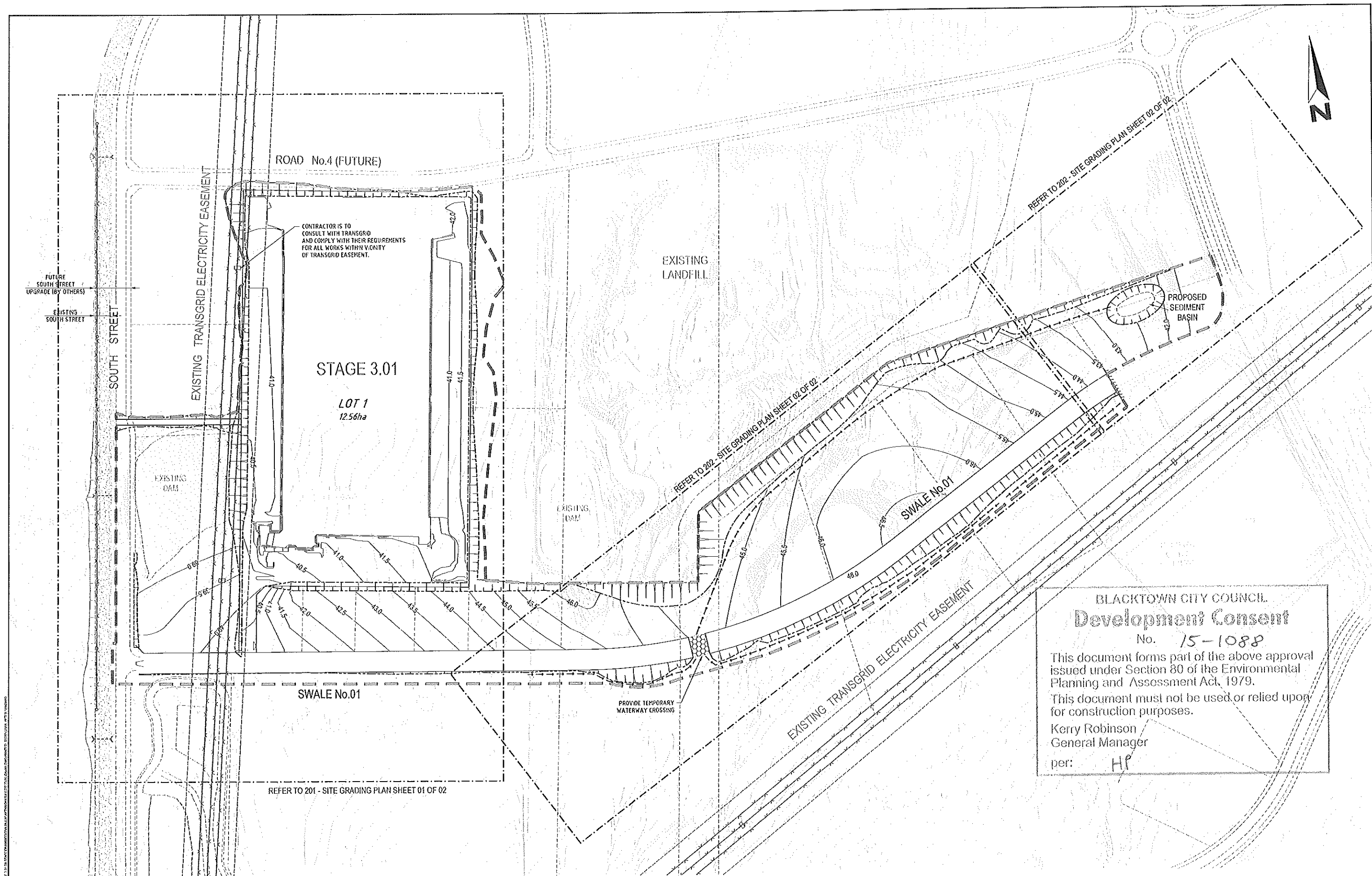


302 SWALE No.01 LONGITUDINAL SECTION SHEET 2 OF 2





BLACKTOWN CITY COUNCIL
Development Consent
 No. 15-1088

This document forms part of the above approval issued under Section 80 of the Environmental Planning and Assessment Act, 1979.

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Kerry Robinson
 General Manager

per: HP

FOR DEVELOPMENT APPLICATION

Rev	Issued	Drawn	Design	Check	Appd.	Date	Revision Details
1	LH	MP	PD	SAG	11/06/2015		ISSUED FOR DEVELOPMENT APPLICATION
2	LH	MP	PD	SAG	23/06/2015		ISSUE TO SUIT COUNCIL COMMENTS
3	LH	MP	PD		16/07/2015		ISSUE TO SUIT COUNCIL COMMENTS



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Authorised for Issue:
 BY: STUART GREEN
 FEAust. CPEng. Manager - Urban
 Development
 SIGN: *[Signature]*
 DATE: 17.7.15

Client:

 Project:
**MARSDEN PARK INDUSTRIAL
 STAGE 3.01 BULK EARTHWORKS DESIGN**

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Drawing Title: GENERAL LAYOUT PLAN				
Project No:	Stage:	Milestone:	Dwg No:	Revision
X11227.23	3.01	DA	001	3

GENERAL NOTES

GENERAL

- G1 ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH BLACKTOWN CITY COUNCIL'S ENGINEERING DESIGN, ENGINEERING CONSTRUCTION SPECIFICATION AND TO THE REQUIREMENTS OF THE PRINCIPAL CERTIFYING AUTHORITY/ROADS AUTHORITY.
- G2 INSPECTIONS BY PRINCIPAL CERTIFYING AUTHORITY SHALL BE REQUESTED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO THE CONTINUANCE OF ANY WORK:
- FOLLOWING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES
 - PRIOR TO BACKFILLING PIPELINES, SUBSOIL DRAINS AND DAMS.
 - PRIOR TO CASTING OF PITS AND OTHER CONCRETE STRUCTURES, INCLUDING KERB AND GUTTER BUT FOLLOWING THE PLACEMENT OF FOOTINGS, FORMWORK AND REINFORCEMENT.
 - PRIOR TO PLACEMENT OF SUBBASE AND ALL SUBSEQUENT PAVEMENT LAYERS, A PROOF ROLLER TEST OF EACH PAVEMENT LAYER IS REQUIRED.
 - FORMWORKS PRIOR TO POURING CONCRETE IN PARKING AREAS FOR FOOTPATH CROSSING AND OTHER ASSOCIATED WORK.
 - PRIOR TO BACKFILLING PUBLIC UTILITY CROSSINGS IN ROAD RESERVES.
 - FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND 'WORK AS EXECUTED' PLANS HAVE BEEN SUBMITTED TO COUNCIL.
- G3 MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS
- G4 NO WORK TO BE CARRIED OUT ON ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER.
- G5 VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION
- G6 ALL RUBBISH, BUILDINGS, SHEDS, AND FENCES ARE TO BE REMOVED TO THE SATISFACTION OF THE PRINCIPAL CERTIFYING AUTHORITY/ROADS AUTHORITY.

EARTHWORKS

- E1 EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE PRINCIPAL CERTIFYING AUTHORITY. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE, WITH THE SUPERINTENDENT, COMPACTION TESTING FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.
- E2 COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 98% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS 1289.5.1.1
- E3 THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'. WHERE IT IS PROPOSED TO USE TEST METHOD AS1289.5.8.2 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.
- E4 THE SUBDIVISIONAL GEOTECH ACCREDITED CERTIFIER, SHALL HAVE RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS' AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.
- E5 IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1:1V:4H, BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL.
- E6 ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST THE ADHESION OF TOP SOIL TO BATTER FACE.
- E7 PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL WITHIN FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 2 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.
- E8 THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PROVIDED BY LANDCOM.
- E9 A CONTINUOUS STRIP OF COUGH GRASS SHALL BE PLACED BEHIND THE BACK OF ALL KERBS AND OTHER CONCRETE STRUCTURES IMMEDIATELY AFTER THE COMPLETION OF THE FOOTPATH GRADING OR OTHER ELEMENTS AS APPLICABLE, MAINTAINED AND REPLACED AS A REQUIREMENT DURING THE CONSTRUCTION MAINTENANCE PERIOD.

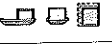
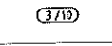
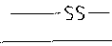
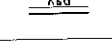
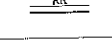
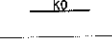
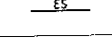
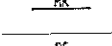
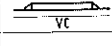
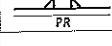
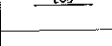
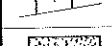
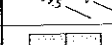
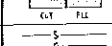
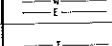
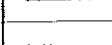
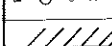
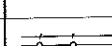
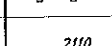
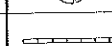
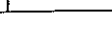
ROADWORKS

- R1 SUBGRADES AND SUBBASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.
- R2 SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE)
- R3 LIFELESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS WHERE REQUIRED BY COUNCIL.
- R4 SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING ENDEAVOUR ENERGY, TELSTRA, SYDNEY WATER AND JEMENA.
- R5 PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS TO NOT DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.
- R6 CONCRETE FOOTPATH CONSTRUCTION IS TO BE BONDED WITH COUNCIL PENDING COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.
- R7 ALL PERMANENT ROADS MUST BE SEALED WITH 50mm OF AC TO BE APPLIED IN TWO 25mm THICK LAYERS. THE FINAL AC IS TO BE BONDED WITH COUNCIL AND PLACED FOLLOWING APPROVAL FROM COUNCIL.
- R8 SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS 1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE'. RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1936 'RETRO-REFLECTIVE DEVICES AND MATERIALS FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING.
- R9 ALL LOT NUMBERS AND STREET NAMES TO BE STENOLED ON KERB FACE.
- R10 STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE OWNER/APPLICANT/SUPERINTENDENT, STREET NAMES MUST BE STENOLED ON KERB AT INTERSECTIONS.
- R11 ALL LIGHT POLES, STREET NAME POLES AND BUS SHELTERS IN THE SUBDIVISION WILL BE BLACK POWDER COATED TO THE SATISFACTION OF BLACKTOWN CITY COUNCIL.

DRAINAGE

- D1 ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED & CLASS 2 UNLESS OTHERWISE NOTED.
- D2 ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- D3 DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED AT ALL DOWNSTREAM PITS.
- D4 ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS. ALL KERB INLET PITS TO BE CAST-IN-SITU.
- D5 ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 12 METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.
- D6 CONCRETE IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 32MPa AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.
- D7 CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY PRINCIPAL CERTIFYING AUTHORITY/ROADS AUTHORITY.
- D8 ALL INTERALLOTMENT DRAINAGE LINES MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE PRINCIPAL CERTIFYING AUTHORITY/ROADS AUTHORITY.
- D9 ALL INTERALLOTMENT DRAINAGE LINES ARE TO BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS ARE TO BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.
- D10 INTERALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTERALLOTMENT DRAINAGE LINES.
- D11 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORK AS EXECUTED' DRAWINGS
- D12 ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.

LEGEND

DESCRIPTION	PROPOSED	EXISTING	FUTURE
STORMWATER PIPELINE			
STORMWATER DRAINAGE PITS			
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10			
CONCRETE HEADWALL			
SUBSOIL DRAIN			
STANDARD 150mm KERB AND GUTTER			
STANDARD ROLL KERB AND GUTTER			
STANDARD KERB ONLY			
STANDARD EDGE STRIP			
STANDARD MOUNTABLE KERB			
STANDARD DISH CROSSING			
VEHICULAR CROSSING			
PERAMBULATOR RAMP			
EDGE OF BITUMEN			
ROAD PAVEMENT			
BENCHMARK			
BATTERS			
CONCRETE PATHWAY			
CONTOURS			
SITE REGRADING AREA			
SERVICE LINES SEWER, GAS, WATER, ELECTRICITY			
COMMUNICATION LINES TELSTRA, OPTUS FIBER			
OVER HEAD LINES AND POLES			
SERVICE PITS TELECOM PIT, ACCESS CHAMBER, HYDRANT, STOP VALVE, AIR VALVE			
LIMIT OF CONSTRUCTION			
LIMIT OF STAGE			
FENCE POST AND RAIL FENCE SECURITY FENCE			
LOT NUMBERS			
TREES TO REMOVE			
TREES			
RETAINING WALL			
ROCK WALL			

BLACKTOWN CITY COUNCIL Development Consent No. 15-1088

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Garry Robinson
General Manager

HP

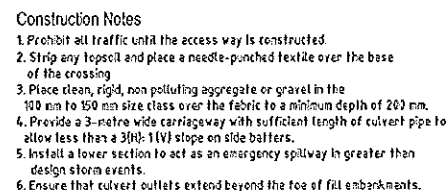
FOR DEVELOPMENT APPLICATION

1 LH MP PD SAG 11/06/2015 ISSUED FOR DEVELOPMENT APPLICATION 2 LH MP PD SAG 23/09/2015 ISSUE TO SUIT COUNCIL COMMENTS 3 LH MP PD SAG 16/07/2015 ISSUE TO SUIT COUNCIL COMMENTS									
First Issue	Drawn	Design	Check	Appd.	Date	Revision Details			
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						Authorised for Issue BY: STUART GREEN FIEAust. CPEng. Manager - Urban Development DATE: 17.7.15			
						Client:  Project: MARSDEN PARK INDUSTRIAL STAGE 3.01 BULK EARTHWORKS DESIGN			
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						Drawing Title: GENERAL NOTES & LEGEND Project No.: X11227.23 Stage: 3.01 Milestone: DA Day No.: 002 Revision: 3			

1 THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORKS BEING CARRIED OUT. ALL SOIL AND EROSION MEASURES SHALL BE MAINTAINED AND KEPT IN PLACE FOR THE FULL DURATION OF THE WORKS AND SHALL ONLY BE REMOVED AT FINAL STABILISATION OF THE WORKS, WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.

26. IN PARTICULAR, INSPECT:
- LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE
 - ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, ENSURING THEY ARE OPERATING CORRECTLY
 - AREAS THAT MIGHT SHOW WHETHER SEDIMENT OR OTHER POLLUTANTS ARE LEAVING THE SITE OR HAVE POTENTIAL TO DO SO
 - ALL DISCHARGE POINTS, TO ASSESS WHETHER THE EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO THE RECEIVING WATERS
27. A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE, AND IMMEDIATELY FOLLOWING RAINFALL EVENTS GREATER THAN 5mm IN 24 HOURS.
28. COUNCIL TO INSPECT TREES PRIOR TO CONSTRUCTION WORKS COMMENCE.

per: HP



Construction Notes

1. Place stoepiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
2. Construct on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stoepiles shall be less than 2 metres in height.
4. Where they are to be in place for more than 10 days, stabilise following the approved EROPS or SWAP to reduce the C-factor to less than 0.12.
5. Select hardy grasses (Standard Drawing 5-5) on the upslope side to divert water around stoepiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

Construction Notes

1. Install a 400 mm minimum wide roll of turf on the footpath next to the kerb and at the same level as the top of the kerb.
2. Lay 14 metre long turf strips normal to the kerb every 10 metres.
3. Rehabilitate disturbed soil behind the turf strip following the ESCP/SWMP.

Construction Notes

1. Remove all vegetation and topsoil from under the dam wall and from within the storage area.
2. Excavate a trench 500 mm deep and 1200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
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 following the SWMP that is free of roots, wood, rock, large stone or foreign matter.
5. Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate.
6. Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
7. Construct the emergency spillway.
8. Rehabilitate the structure following the SWMP.

The drawing consists of two parts: a 'SECTION DETAIL' and a 'PLAN'.

SECTION DETAIL: This cross-sectional view shows the fence structure. It features a 'Self-supporting post-and-rail' system. The 'Direction of Flow' is indicated by an arrow pointing to the right. The structure is built with '15 mm dia. galv. plates at max. 25 m centres' for the rails and '500 mm x 65 mm' for the posts. The base is 'On soil, 105 mm x 105 mm travertine masonry capped with 100 mm concrete, 300 mm surface concrete'. Dimensions of '500 mm x 65 mm' and '600 mm x 65 mm' are shown for the post and rail sections respectively.

PLAN: This top-down view shows the fence layout. It includes a 'Disturbed area' and an 'Undisturbed area'. The fence is composed of '15 mm dia. galv. plates at max. 25 m centres'. A '12 mm dia. galv. plate chain as per IS 3021:1959' is used for the top rail. The 'Flow' direction is indicated by an arrow. A 'Step gabion at entrance' is shown at the bottom. A dimension of '10 m' is given for a section of the fence.

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 a 10-year event.
2. Cut a 150-mm-deep trench along the upslope line of the fence for the bottom of the fabric to be entrenched.
3. Drive 15 metre long star pickets into ground at 25 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
4. Lay out the geotextile in sections to the upslope edge of the pickets ensuring it goes to the base of the trench. Tie 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 150-mm overlap.
6. Seal the front edge of the fabric and connect it thoroughly over the geotextile.

Construction site

Min. width 3 metres

Min. length 15 metres

200 mm min.

300 mm min.

Properly bounded

Runoff directed to sediment trap/fence

DGB 20 roadbase or 30 mm aggregate

Existing roadway

Geotextile fabric designed to prevent intermixing of subgrade and base materials and to maintain good properties of the sub-base layers. Geotextile may be a woven or needle-punched product with a minimum CBR burst strength (AS3106.4-92) of 2500 N

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200 mm thick pad over the geotextile using road base or 32 mm aggregate.
4. Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence.

The diagram illustrates the construction of a drop pit for roof drainage. It shows a cross-section of a roof with a parapet wall. A drop pit is excavated into the roof slab, and a drain is installed. The drop pit is covered with a grate, and the surrounding area is finished with a sloped surface. Labels include: Parapet, Drop pit, Drain, Slope, Water, Excavation, Earthwork, and Roof drainage system.

Construction Notes

1. Fabricate a sediment barrier made from geotextile or straw bales.
2. Follow Standard Drawing 6-8 for installation procedures for 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.

Diagram illustrating the construction of a temporary earth bund. The bund is 2 metres wide at the base. The upstream side (left) has a 150 mm minimum height and a 1% to 5% gradient. The downstream side (right) has a 300 mm minimum height. The bund is constructed with a 1% to 5% gradient. The bund is constructed with a 1% to 5% gradient. The bund is constructed with a 1% to 5% gradient.

NOTE: Only to be used as temporary bank where maximum upslope length is 60 metres.

Construction Notes

1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.

Construction Notes

1. Build with gradients between 1 percent 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 catch water or flammable materials.
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.

[illegible]

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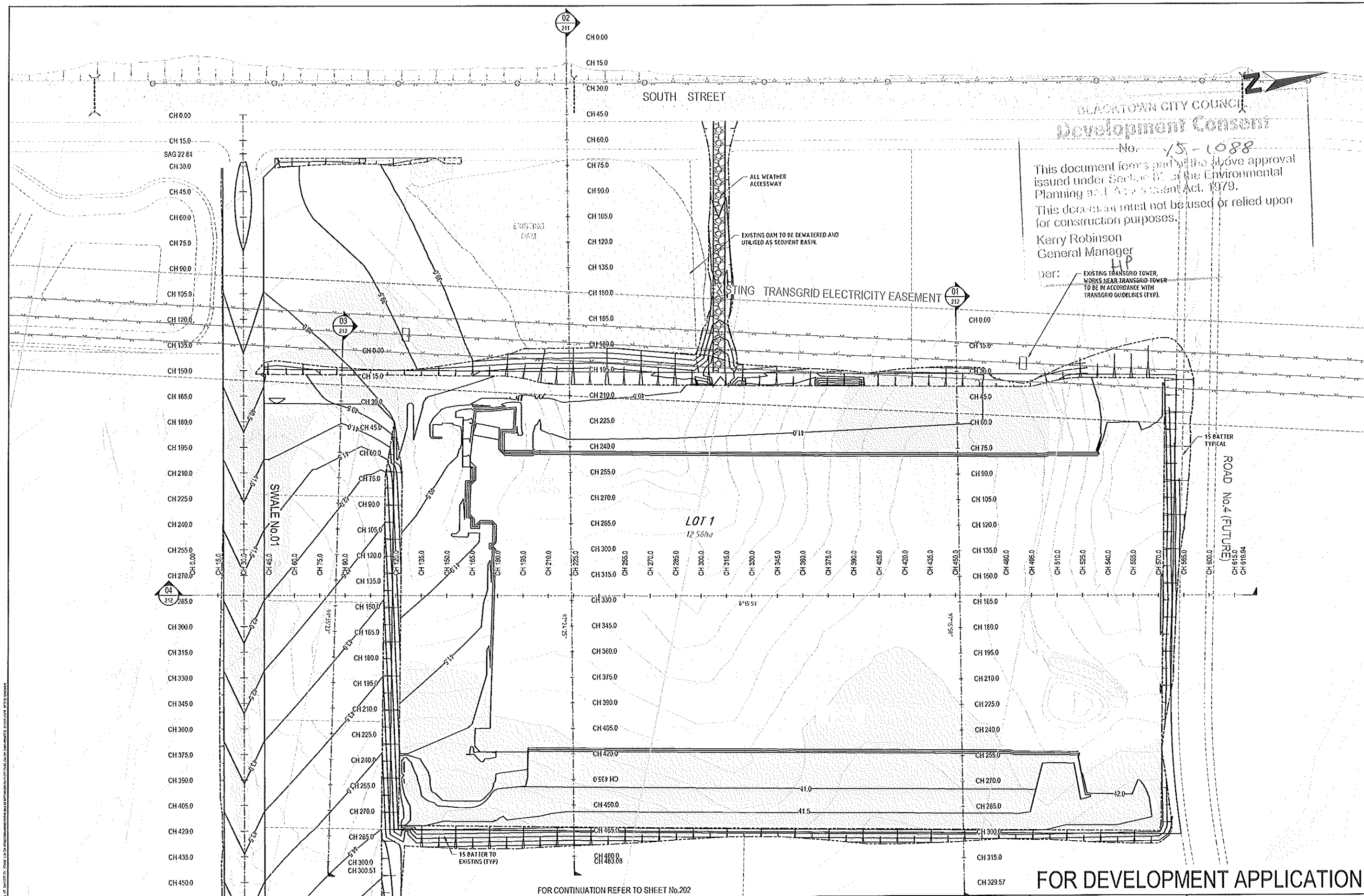


Authorised for Issue:
BY: **STUART GREEN**
FIEAust, CPEng, Manager - Urban
Development
SIGN: 
DATE: 17.7.15

Client	
Project	MARSDEN PARK INDUSTRIAL STAGE 3.01 BULK EARTHWORKS DESIGN


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Drawing Title				
SEDIMENT & EROSION CONTROL				
NOTES & DETAILS				
Project No.:	Staga:	MBestone:	Dwg No.:	Revision:
X11227.23	3.01	DA	102	3



BLACKTOWN CITY COUNCIL
Development Consent

No. **15-1088**
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Kerry Robinson
General Manager

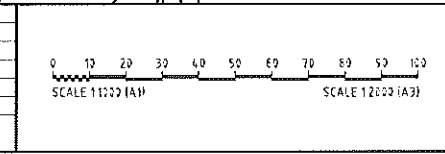
per: **HP**
EXISTING TRANSGRID TOWER WORKS NEAR TRANSGRID TOWER TO BE IN ACCORDANCE WITH TRANSGRID GUIDELINES (TYP).

LOT 1
12.56ha

FOR CONTINUATION REFER TO SHEET No.202

FOR DEVELOPMENT APPLICATION

Revision Details					
Rev	Issue	Drawn	Design	Check	Appd.
1	LH	MP	PD	SAG	11/05/2015
2	LH	MP	PD	SAG	23/05/2015
3	LH	MP	PD	SAG	16/07/2015
4	LH	MP	PD	SAG	16/07/2015



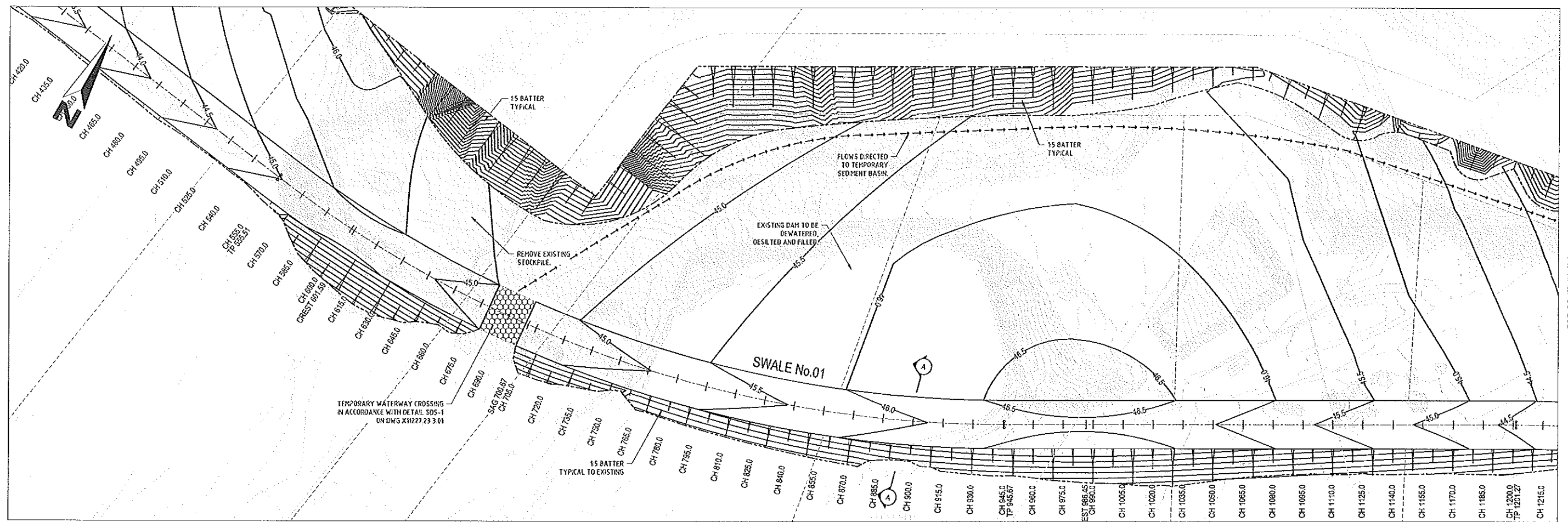
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SIGN: *[Signature]*
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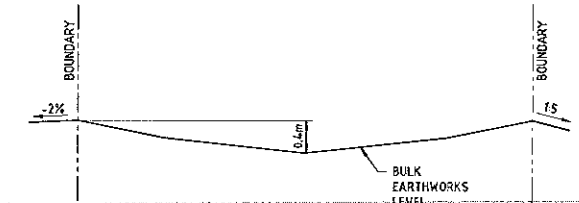
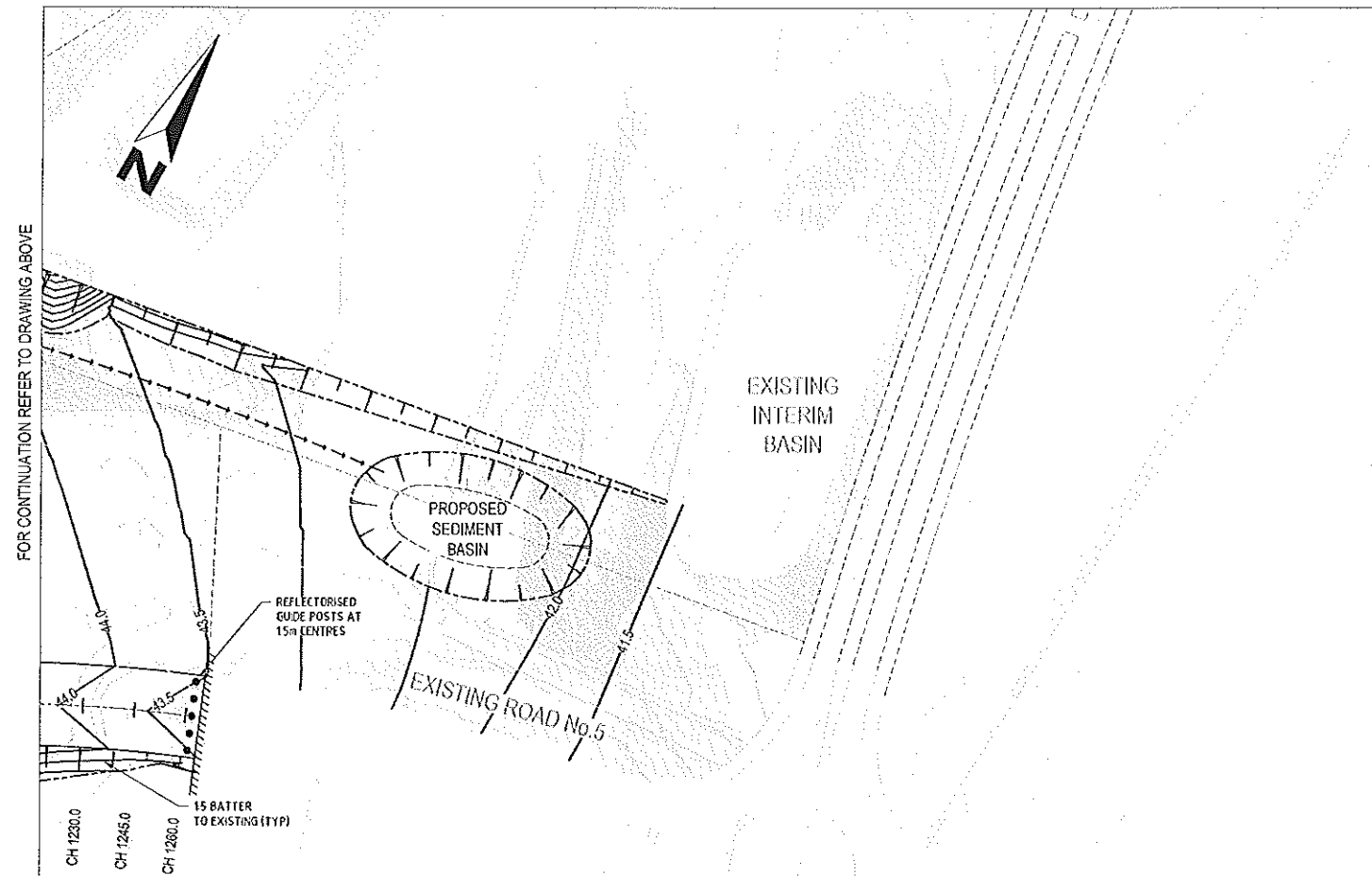
Client:
MARSDEN PARK INDUSTRIAL
Project:
STAGE 3.01 BULK EARTHWORKS DESIGN



Drawing Title				
SITE GRADING PLAN SHEET 01 OF 02				
Project No:	Stage:	Attachment:	Dwg No:	Revision:
X11227.23	3.01	DA	201	3



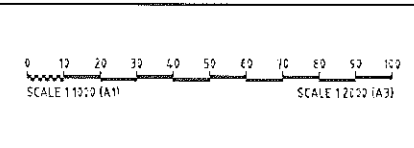
FOR CONTINUATION REFER TO DRAWING BELOW



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 Kerry Robinson
 General Manager
 HP

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Rev	Issue	Drawn	Design	Check	Appd.	Date	Revision Details
1	LH	MP	PD	SAG	11/05/2015		ISSUED FOR DEVELOPMENT APPLICATION
2	LH	MP	PD	SAG	23/05/2015		ISSUE TO SUIT COUNCIL COMMENTS
3	LH	MP	PD	SAG	16/07/2015		ISSUE TO SUIT COUNCIL COMMENTS



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 REA/Act. C/Eng. Manager - Urban Development
 SIGN: *[Signature]*
 DATE: 17.11.15

Client: **MARSDEN PARK INDUSTRIAL**
 Project: **STAGE 3.01 BULK EARTHWORKS DESIGN**

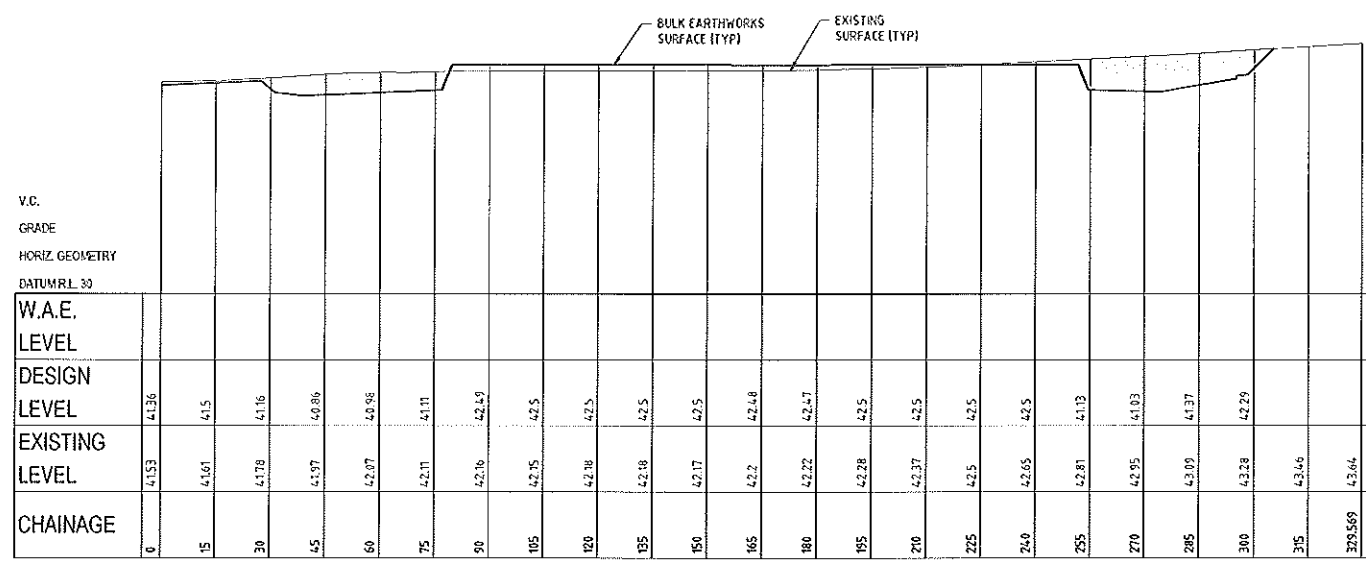
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Project No.	Stage	Altitude	Day No.	Revision
X11227.23	3.01	DA	202	3

LEGEND

FILL AREA

CUT AREA



LONGITUDINAL SECTION CENTRELINE 1
SCALE: 1:1000 (H)
SCALE: 1:200 (V)

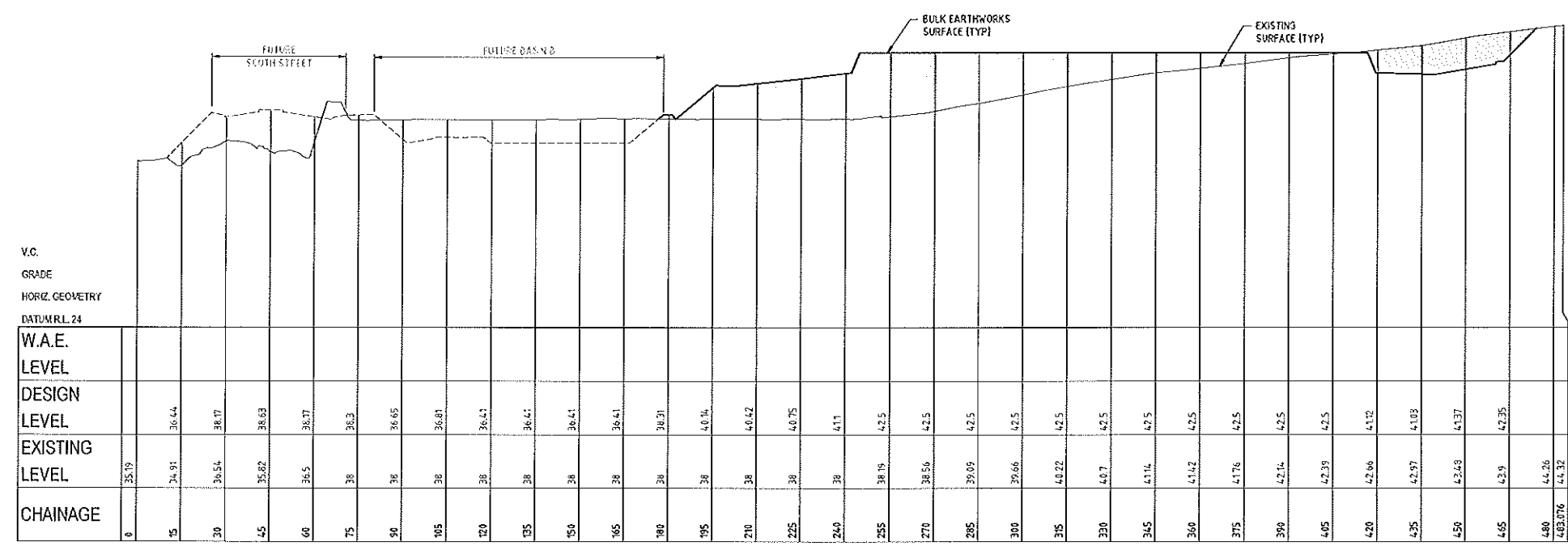
SUITC COUNCIL
Development Consent
No. 15-1088

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Kerry Robinson
General Manager

per: HP



LONGITUDINAL SECTION CENTRELINE 2
SCALE: 1:1000 (H)
SCALE: 1:200 (V)

FOR DEVELOPMENT APPLICATION

1 LH VP PD SAG 1/09/2015 ISSUED FOR DEVELOPMENT APPLICATION

2 LH VP PD SAG 23/09/2015 ISSUE TO SUIT COUNCIL COMMENTS

3 LH VP PD 16/07/2015 ISSUE TO SUIT COUNCIL COMMENTS

First Issue Drawn Design Check Appd Date

Revision Details

0 10 20 30 40 50 60 70 80 90 100

SCALE 1:1000 (H)

0 20 40 60 80 100 120 140 160 180 200

SCALE 1:200 (V)

0 20 40 60 80 100 120 140 160 180 200

SCALE 1:200 (H)

0 20 40 60 80 100 120 140 160 180 200

SCALE 1:400 (V)

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REASON: CPEng. Manager - Urban Development

SIGN: [Signature]

DATE: 17.7.15

Client:

Project:

MARSDEN PARK INDUSTRIAL

STAGE 3.01 BULK EARTHWORKS DESIGN

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Drawing Title:

SITE REGRADING LONGITUDINAL SECTIONS SHEET 1 OF 2

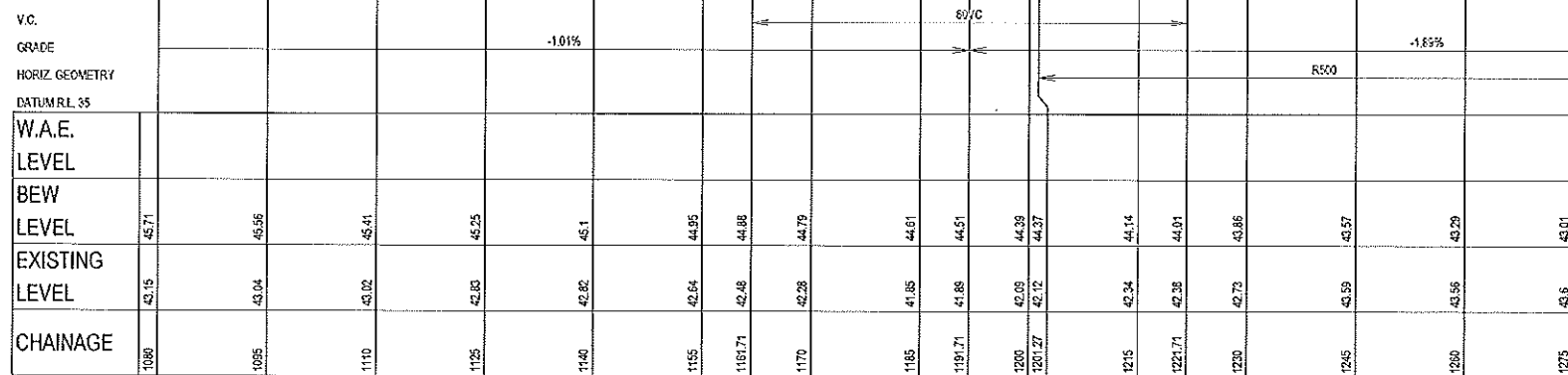
Project No: X11227.23

Stage: 3.01

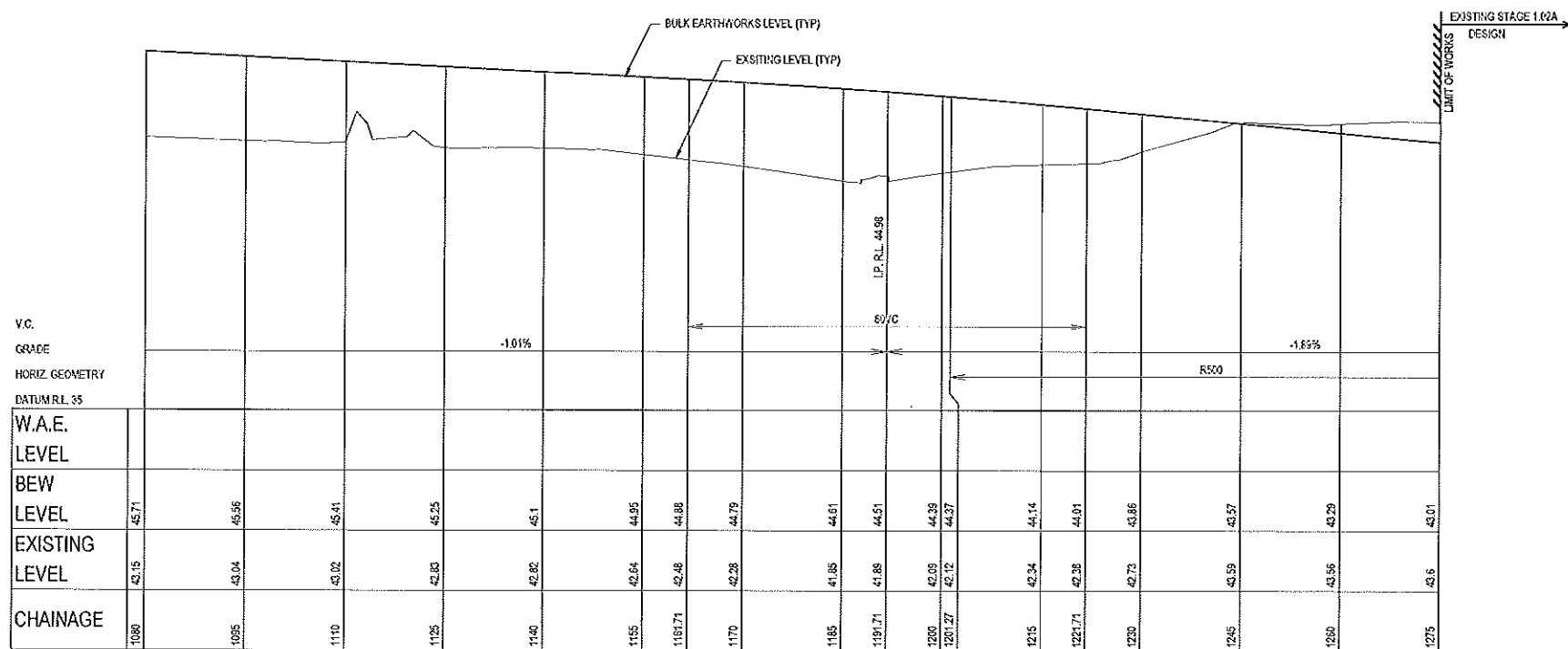
Milestone: DA

Dwg No: 211

Revision: 3



SCALE 1:500 (H)
SCALE 1:100 (V)



SCALE 1:500 (H)
SCALE 1:100 (V)

[illegible]

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DATE: 17.7.15

Client	
Project	MARSDEN PARK INDUSTRIAL STAGE 3.01 BULK EARTHWORKS DESIGN



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Drawing Title				
SWALE No.01 LONGITUDINAL SECTION SHEET 2 OF 2				
Project No.:	Stage:	Milestone:	Dwg No.:	Revision:
X11227.23	3.01	DA	302	3

FOR DEVELOPMENT APPLICATION

