

An aerial photograph showing a large, cleared land area. The ground is mostly brown and uneven, with numerous mounds of dirt and tracks from heavy machinery. To the left, there are several industrial buildings with white roofs and a parking lot. A road runs along the bottom of the image, with a few vehicles visible. The background shows a mix of green fields and some distant structures.

ATTACHMENT 4

ENGINEERING DRAWINGS

DOCUMENT TRANSMITTAL SCHEDULE

To: **City of Gold Coast Council**

Address : **PO Box 5042**
GCMC 9726

Attention: **Development Assessment**

g a s s m a n **development perspectives**

planning | environment | landscape | engineering | survey

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76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

PROJECT:

OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL M38 INDUSTRIAL PARK YATALA

Job No:

5941

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5941 ENG BE1 003	GENERAL NOTES SHEET 2 OF 2	A	B														
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5941 ENG BE1 023	SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 6	A	B														
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5941 ENG BE1 025	SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 6	A	B														
5941 ENG BE1 026	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT	A	B														
5941 ENG BE1 027	CONSTRUCTION PHASE SEDIMENT BASIN 1 SECTIONS	A	B														
5941 ENG BE1 028	CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT	A	B														
5941 ENG BE1 029	CONSTRUCTION PHASE SEDIMENT BASIN 2 SECTIONS	A	B														
5941 ENG BE1 030	SEDIMENT AND EROSION TYPICAL DETAILS	A	B														
5941 ENG BE1 050	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 1 OF 6	A	B														
5941 ENG BE1 051	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 2 OF 6	A	B														
5941 ENG BE1 052	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 3 OF 6	A	B														
5941 ENG BE1 053	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 4 OF 6	A	B														
5941 ENG BE1 054	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 5 OF 6	A	B														
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5941 ENG BE1 056	BULK EARTHWORKS LAYOUT PLAN	A	B														
5941 ENG BE1 100	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 1 OF 6	A	B														
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5941 ENG BE1 104	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 5 OF 6	A	B														
5941 ENG BE1 105	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 6 OF 6	A	B														
5941 ENG BE1 150	FINISHED EARTHWORKS CROSS SECTIONS SHEET 1 OF 11	A	B														
5941 ENG BE1 151	FINISHED EARTHWORKS CROSS SECTIONS SHEET 2 OF 11	A	B														
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5941 ENG BE1 155	FINISHED EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	B														
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5941 ENG BE1 157	FINISHED EARTHWORKS CROSS SECTIONS SHEET 8 OF 11	A	B														
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5941 ENG BE1 159	FINISHED EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	B														
5941 ENG BE1 160	FINISHED EARTHWORKS CROSS SECTIONS SHEET 11 OF 11	A	B														
5941 ENG BE1 161	BULK EARTHWORKS ROAD TYPICAL SECTIONS	A	B														

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5941 ENG BE1 163	BULK EARTHWORKS DETAILED SECTIONS SHEET 1 OF 2	-	A								
5941 ENG BE1 400	CONTROL LINE LAYOUT PLAN SHEET 1 OF 2	A	B								
5941 ENG BE1 401	CONTROL LINE LAYOUT PLAN SHEET 2 OF 2	A	B								
5941 ENG BE1 402	ROAD CONTROL LINE SETOUT TABLES SHEET 1 OF 3	A	B								
5941 ENG BE1 403	ROAD CONTROL LINE SETOUT TABLES SHEET 2 OF 3	A	B								
5941 ENG BE1 404	ROAD CONTROL LINE SETOUT TABLES SHEET 3 OF 3	A	B								
5941 ENG BE1 405	SWALE DRAIN CONTROL LINE SETOUT TABLES	A	B								
5941 ENG BE1 410	ROAD 01 LONGITUDINAL SECTION SHEET 1 OF 3	A	B								
5941 ENG BE1 411	ROAD 01 LONGITUDINAL SECTION SHEET 2 OF 3	A	B								
5941 ENG BE1 412	ROAD 01 LONGITUDINAL SECTION SHEET 3 OF 3	A	B								
5941 ENG BE1 413	ROAD 02 LONGITUDINAL SECTION SHEET 1 OF 2	A	B								
5941 ENG BE1 414	ROAD 02 LONGITUDINAL SECTION SHEET 2 OF 2	A	B								
5941 ENG BE1 415	ROAD 03 (1) LONGITUDINAL SECTION	A	B								
5941 ENG BE1 416	ROAD 03 (2) LONGITUDINAL SECTION	A	B								
5941 ENG BE1 417	EMERI STREET EXT. LONGITUDINAL SECTION	A	B								
5941 ENG BE1 418	SWALE DRAIN A LONGITUDINAL SECTION SHEET 1 OF 2	A	B								
5941 ENG BE1 419	SWALE DRAIN A LONGITUDINAL SECTION SHEET 2 OF 2	A	B								
5941 ENG BE1 420	SWALE DRAIN B LONGITUDINAL SECTION	A	B								
5941 ENG BE1 421	BOULDER RETAINING WALL CONTROL LINE LAYOUT PLAN	A	B								
5941 ENG BE1 422	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 1 OF 6	A	B								
5941 ENG BE1 423	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 2 OF 6	A	B								
5941 ENG BE1 424	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 3 OF 6	A	B								
5941 ENG BE1 425	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 4 OF 6	A	B								
5941 ENG BE1 426	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 5 OF 6	A	B								
5941 ENG BE1 427	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 6 OF 6	A	B								
5941 ENG BE1 428	BOULDER RETAINING WALL SETOUT TABLES SHEET 1 OF 2	A	B								
5941 ENG BE1 429	BOULDER RETAINING WALL SETOUT TABLES SHEET 2 OF 2	A	B								
5941 ENG BE1 430	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11	A	B								
5941 ENG BE1 431	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11	A	B								
5941 ENG BE1 432	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11	A	B								
5941 ENG BE1 433	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11	A	B								
5941 ENG BE1 434	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11	A	B								
5941 ENG BE1 435	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	B								
5941 ENG BE1 436	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11	A	B								
5941 ENG BE1 437	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11	A	B								
5941 ENG BE1 438	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11	A	B								
5941 ENG BE1 439	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11	A	B								
5941 ENG BE1 440	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11	A	B								
5941 ENG BE1 441	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 6	A	B								
5941 ENG BE1 442	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 6	A	B								
5941 ENG BE1 443	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 6	A	B								

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5941 ENG BE1 444	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 6	A	B								
5941 ENG BE1 445	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 6	A	B								
5941 ENG BE1 446	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 6	A	B								
5941 ENG BE1 447	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3	A	B								
5941 ENG BE1 448	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3	A	B								
5941 ENG BE1 449	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3	A	B								
5941 ENG BE1 450	ROAD 03 (2) BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2	A	B								
5941 ENG BE1 451	ROAD 03 (2) BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2	A	B								
5941 ENG BE1 452	EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2	A	B								
5941 ENG BE1 453	EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2	A	B								
5941 ENG BE1 454	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11	A	B								
5941 ENG BE1 455	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11	A	B								
5941 ENG BE1 456	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11	A	B								
5941 ENG BE1 457	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11	A	B								
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5941 ENG BE1 465	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3	A	B								
5941 ENG BE1 466	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3	A	B								
5941 ENG BE1 467	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3	A	B								
5941 ENG BE1 470	PRE DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT	A	B								
5941 ENG BE1 471	POST DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT	A	B								
5941 ENG BE1 570	OPERATIONAL PHASE BIORETENTION BASIN SHEET 1 OF 2	A	B								
5941 ENG BE1 571	OPERATIONAL PHASE BIORETENTION BASIN SHEET 2 OF 2	A	B								

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Project Manager: mitchell@gassman.com.au

Sent by: mitchell@gassman.com.au

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5941 ENG BE1 416	ROAD 03 (2) LONGITUDINAL SECTION	A	B								
5941 ENG BE1 417	EMERI STREET EXT. LONGITUDINAL SECTION	A	B								
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5941 ENG BE1 419	SWALE DRAIN A LONGITUDINAL SECTION SHEET 2 OF 2	A	B								
5941 ENG BE1 420	SWALE DRAIN B LONGITUDINAL SECTION	A	B								
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5941 ENG BE1 423	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 2 OF 6	A	B								
5941 ENG BE1 424	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 3 OF 6	A	B								
5941 ENG BE1 425	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 4 OF 6	A	B								
5941 ENG BE1 426	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 5 OF 6	A	B								
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5941 ENG BE1 429	BOULDER RETAINING WALL SETOUT TABLES SHEET 2 OF 2	A	B								
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5941 ENG BE1 435	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	B								
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5941 ENG BE1 438	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11	A	B								
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5941 ENG BE1 443	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 6	A	B								

DOCUMENT TRANSMITTAL SCHEDULE

To: **City of Gold Coast Council**

Address : **PO Box 5042**
GCMC 9726

Attention: **Development Assessment**

PROJECT:

OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL M38 INDUSTRIAL PARK YATALA

Job No: 5941

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Drg/Doc No.	Title	Revision Issued									
5941 ENG BE1 444	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 6	A	B								
5941 ENG BE1 445	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 6	A	B								
5941 ENG BE1 446	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 6	A	B								
5941 ENG BE1 447	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3	A	B								
5941 ENG BE1 448	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3	A	B								
5941 ENG BE1 449	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3	A	B								
5941 ENG BE1 450	ROAD 03 (2) BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2	A	B								
5941 ENG BE1 451	ROAD 03 (2) BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2	A	B								
5941 ENG BE1 452	EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2	A	B								
5941 ENG BE1 453	EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2	A	B								
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5941 ENG BE1 459	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11	A	B								
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5941 ENG BE1 461	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11	A	B								
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5941 ENG BE1 471	POST DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT	A	B								
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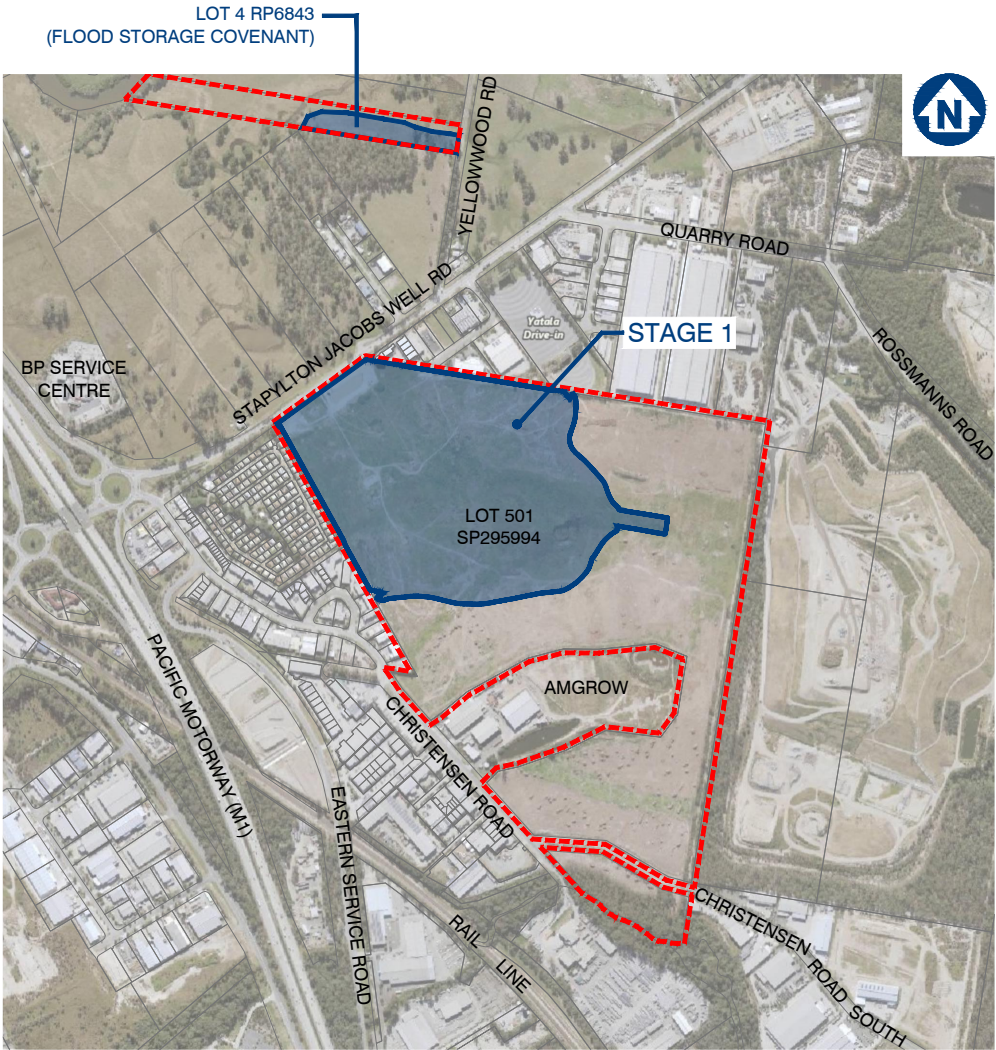
Project Manager: mitchell@gassman.com.au

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OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL M38 INDUSTRIAL PARK YATALA

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LOCALITY PLAN
SCALE 1: 8000 (A1)

CLIENT



FRASERS

PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

SITE ADDRESS

LOT 501 on SP295994
60 STAPYLTON JACOBS WELL ROAD
STAPYLTON QLD 4207 and

LOT 4 on RP6843
31 YELLOWWOOD ROAD
STAPYLTON QLD 4207

GENERAL NOTES

1. **CONTRACT DOCUMENTATION**
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATION AND CoGC STANDARD DRAWINGS AND SPECIFICATIONS.
2. **DATUM**
LEVELS SHOWN ON THE PLANS ARE A.H.D.
3. **SURVEY SETOUT**
THE SURVEY SET OUT INFORMATION TO ALLOW THE CONTRACTOR TO ACCURATELY SET OUT THE WORKS HAS BEEN ESTABLISHED ON SITE BY THE PRINCIPAL'S SURVEYOR. THE CONTRACTOR IS NOT TO SCALE FROM THESE PLANS AS A MEANS OF OBTAINING SETOUT INFORMATION.
4. **EXISTING SURVEY CONTROL STATIONS**
IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EXISTING SURVEY CONTROL STATIONS ARE NOT DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES. SHOULD THE CONTRACTOR IDENTIFY ANY CONFLICT BETWEEN EXISTING SURVEY CONTROL AND THE REQUIRED CONSTRUCTION ACTIVITIES THE SUPERINTENDENT IS TO BE NOTIFIED IMMEDIATELY.
5. **EXISTING SERVICES**
THE LOCATION OF EXISTING SERVICES WHERE SHOWN ON THE PLANS ARE INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE EXISTING SERVICES.
6. **SITE ACCESS**
THE CONTRACTOR SHALL ONLY GAIN ACCESS TO THE SITE VIA ACCESS LOCATIONS APPROVED BY THE SUPERINTENDENT. FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE SHALL BE MAINTAINED AT ALL TIMES.
7. **PROVISION FOR TRAFFIC**
PROVISION FOR TRAFFIC ON LOCAL ROADS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND CoGC COUNCIL REQUIREMENTS.
8. **WORK EXTENT**
THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORKS AREAS UNDER THE CONTRACT. AT NO TIME IS THE CONTRACTOR TO ENTER ADJOINING PROPERTIES OR CONTRACT AREAS WITHOUT THE WRITTEN AUTHORISATION OF THE SUPERINTENDENT.
9. **TESTING**
ALL TESTING IS TO BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND REQUIREMENTS OF CoGC COUNCIL.
10. **"AS CONSTRUCTED" SURVEY**
"AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE PRINCIPAL'S SURVEYOR AS WORK PROCEEDS. THE CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE TO THE PRINCIPAL'S SURVEYOR ON WHEN THIS IS REQUIRED TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF CoGC COUNCIL.
11. **MAINTENANCE OF SITE CONDITION**
AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND CoGC.

EARTHWORKS

1. **PRECEDENCE**
EARTHWORKS SPECIFICATION PREPARED BY PROJECT GEOTECHNICAL ENGINEER TO TAKE PRECEDENCE OVER STANDARD COUNCIL EARTHWORKS NOTES.
2. **TOPSOIL STRIPPING**
TOPSOIL SHALL BE STRIPPED ACROSS THE ENTIRE LIMIT OF THE EARTHWORKS CUT AND FILL AREAS AND SHALL BE STOCKPILED IN A LOCATION APPROVED BY THE SUPERINTENDENT. THE EXISTING STRATA IS TO BE TREATED IN ACCORDANCE WITH THE SPECIFICATION PRIOR TO PLACING ANY FILL.
3. **EARTHWORKS LEVELS**
EARTHWORKS LEVELS SHOWN ON THE DRAWING ARE TO FINISHED SURFACE LEVELS AND INCLUDE 100mm OF TOPSOIL. THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE COMMENCEMENT OF CONSTRUCTION.
4. **UNDESIRABLE MATERIAL**
THE ENTIRE SITE/WORK AREAS SHALL BE CLEARED OF ALL UNDESIRABLE MATTER. THIS SHALL INCLUDE DEAD TIMBER, GRASS, OLD FOUNDATIONS, CONCRETE, MASONRY REMAINS, GARBAGE, DEBRIS AND ALL OTHER OBSTRUCTIONS TO THE WORKS UNLESS NOTED OTHERWISE. HOLES LEFT BY THE REMOVAL OF ANY OF THE ABOVE SHALL BE FILLED WITH APPROVED COMPACTED MATERIAL WITH PROPERTIES AT LEAST SIMILAR TO INSITU SOILS.
5. **COMPACTION STANDARD**
FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING STANDARD, WHERE DRY DENSITY RATIO IS DETERMINED IN ACCORDANCE WITH AS 1289 USING STANDARD COMPACTION METHODS.

a. 100% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 80% IN COHESIONLESS MATERIAL FOR ROAD SUBGRADE.

b. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 65% IN COHESIONLESS MATERIAL FOR ALL AREAS OTHER THAN THE ROADWAY AND BUILDING PADS.

c. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 70% IN COHESIONLESS MATERIAL FOR BUILDING PADS.
5. **PAVEMENT DEPTHS**
EARTHWORKS VOLUMES DO NOT INCLUDE DESIGN PAVEMENT DEPTHS AS INDICATED ON THE TYPICAL BULK EARTHWORKS ROAD SECTION.
6. **TESTING**
ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3798 UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY.
7. **ROCK**
THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR EARTHWORKS RATES UNLESS SCHEDULED OTHERWISE WITHIN THE CONTRACT DOCUMENT.

8. **DAMS AND PONDS**
WHERE POSSIBLE, WATER FROM DAMS AND PONDS SHALL BE MAINTAINED AND UTILISED FOR CONSTRUCTION PURPOSES AND DUST SUPPRESSION. DAMS AND PONDS NOT TO BE RETAINED SHALL BE DEWATERED, CLEARED OF ANY FOREIGN MATTER AND ORGANIC MATERIAL WITH THIS MATERIAL TO BE REMOVED OFF SITE.
9. **RETAINING STRUCTURES**
THE DESIGN AND STRUCTURAL CERTIFICATION OF RETAINING STRUCTURES SHALL BE UNDERTAKEN BY THE CONTRACTOR'S STRUCTURAL ENGINEER (RPEQ) IN CONSULTATION WITH THE PROJECT'S CIVIL ENGINEER AND LANDSCAPE CONSULTANT. THE CONTRACTOR IS RESPONSIBLE FOR THE SUBMISSION AND APPROVAL COORDINATION OF THE ASSOCIATED DRAWINGS AND CERTIFICATION TO GCCC. A COPY OF THIS SUBMISSION IS TO BE PROVIDED TO THE SUPERINTENDENT.
10. **TOPSOIL REPLACEMENT**
ALL BATTERS AND ALLOTMENT CUT & FILL AREAS SHALL BE TOP SOILED FROM ONSITE STOCKPILES. IF DIRECTED BY THE SUPERINTENDENT THE TOPSOIL SHALL BE SCREENED PRIOR TO PLACING. THE CONTRACTOR SHALL ALLOW IN THEIR RATE FOR SCREENING AND THE DISPOSAL OF REJECT MATERIAL TO TIP OFFSITE INCLUDING ALL FEES. THE CONTRACTOR MUST ENSURE THAT THE STRIPPING SHALL BE UNDERTAKEN IN SUCH A MANNER AS TO AVOID CONTAMINATION BY OVER CUTTING. IF TOPSOIL IS CONTAMINATED BY OVER CUTTING AND DETERMINED NOT SUITABLE FOR REUSE BY THE SUPERINTENDENT, THE CONTRACTOR SHALL BEAR THE COST OF REMOVAL FROM SITE OF ALL CONTAMINATED TOPSOIL AND THE COST TO SUPPLY AND IMPORT SUITABLE TOPSOIL FOR RE-SPREADING.
11. **GRASSING / SEEDING**
ALL CUT & FILL AREAS AND DISTURBED AREAS SHALL BE GRASSED OR SEEDED TO THE SATISFACTION OF THE SUPERINTENDENT.
12. **STOCKPILES**
ALL MATERIAL/SPOIL ARISING FROM WORKS ON SITE SHALL BE COMPACTED TO AN APPROPRIATE STANDARD WITHIN THE FILL AREAS OF FUTURE STAGES AS NOMINATED BY THE SUPERINTENDENT. THE CONTRACTOR IS NOT TO CREATE STOCKPILES OF SURPLUS MATERIALS UNLESS WRITTEN AUTHORIZATION IS RECEIVED FROM THE SUPERINTENDENT.

SEDIMENT AND EROSION

1. THE OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL PROGRAM ARE:

a. ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AT NON-EROSIVE FLOW VELOCITIES.

b. MINIMISE SOIL EROSION FROM WATER AND WIND

c. MINIMISE ADVERSE EFFECTS OF SEDIMENT RUNOFF.

d. MINIMISE OR PREVENT ENVIRONMENTAL HARM ASSOCIATED WITH DISCHARGE FROM THE CONSTRUCTED SITE.

e. ENSURE THAT THE VALUE AND USE OF RESIDENTIAL AND INDUSTRIAL PROPERTIES ADJACENT TO THE DEVELOPMENT ARE NOT DIMINISHED AS A RESULT OF THE MIGRATION OF SEDIMENT FROM THE DEVELOPMENT.
2. THE EROSION AND SEDIMENT CONTROL PROGRAM SHALL COMPLY WITH THE ENVIRONMENTAL BEST ENGINEERING GUIDELINES FOR QUEENSLAND CONSTRUCTION SITES. THE CURRENT INSTITUTION OF ENGINEERS AUSTRALIA AND LOCAL AUTHORITY GUIDELINES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTIONS INCLUDING THE MAINTENANCE PERIOD. NOTWITHSTANDING THE FINISHED EARTHWORK DESIGN SHOWN ON THE DRAWINGS THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT ADDITIONAL SEDIMENT CONTROL MEASURES AND DEVICES USING BEST PRACTICES AS NECESSARY TO MINIMISE THE QUANTITY LEAVING THE SITE DURING CONSTRUCTION AND UPON COMPLETION OF EARTHWORKS.
3. THE CONTRACTOR IS TO FOLLOW CONSTRUCTION PHASE AS OUTLINED IN THE CONSTRUCTION SEQUENCE/SILT MANAGEMENT PROGRAM. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPLACED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%. ALL PERIMETER BANK/SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION AND GULLY INLETS. INLETS TO HAVE SILT PROTECTION IN ACCORDANCE WITH KERB INLET PROTECTION DETAIL AT LOCATIONS SHOWN OR AS INDICATED BY THE ENGINEER.
4. PRIOR TO THE COMMENCEMENT OF EARTHWORKS, THE CONTRACTOR IS TO CARRY OUT SOIL TESTING (IF REQUIRED BY SUPERINTENDENT) TO DETERMINE THE DISPERSIVE CHARACTERISTICS OF THE SOIL AND RESULTS TO BE GIVEN TO THE ENGINEERS SO THE FINALIZATION OF THE EROSION AND SEDIMENT CONTROL PLAN CAN BE COMPLETE.
5. TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN LOCATIONS AGREED WITH THE SUPERINTENDENT. CLEARING OF SITE AND STOCKPILE AREAS TO BE AS DIRECTED BY THE SUPERVISING ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST AT ALL TIMES INCLUDING WEEKENDS AND PUBLIC HOLIDAYS.
6. SUITABLE ACCESS SHALL BE PROVIDED TO ALLOW MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES (IT IS TO BE NOTED THAT CLEARING SHALL ONLY OCCUR IN AREAS WHERE THERE IS NO OTHER ALTERNATIVE TO GAIN ACCESS TO THE LOCATION OF THE SEDIMENT CONTROL DEVICES). APPROVAL FOR REMOVAL OF PROTECTED SIZE VEGETATION MUST BE OBTAINED PRIOR TO CLEARING.
7. ROCK BUNDS TO BE PLACED AROUND ALL HEADWALLS DURING CONSTRUCTION.
8. 0.8m TURF IS TO BE PLACED BEHIND ON ALL BATTERS WITHIN PRIVATE OPEN SPACE STEEPER THAN 1:4 UNLESS OTHERWISE NOTED. THE EXTENT OF GRASSING SHALL BE DETERMINED BY THE ENGINEER AND SHALL BE SEEDED, AS SPECIFIED, WITHIN 7 DAYS OF FINAL TRIMMING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT GRASS STRIKE RATES ARE ACHIEVED AT ON AND OFF MAINTENANCE INSPECTION IN ACCORDANCE WITH COUNCIL REQUIREMENTS.
9. TURF IS TO BE PLACED FROM BACK OF KERB TO ROAD RESERVE BOUNDARY ON ALL ROADS AFTER EARTHWORKS ARE COMPLETE.
10. GEO-FABRIC LINING OF CHANNELS AND CHECK DAMS MAY BE REQUIRED SUBJECT TO THE SITE CONDITIONS.
11. FILLING AND OR MAINTENANCE OF EXISTING AND OR SEDIMENT BASINS MAY REQUIRE FLOCCULATION.
12. BATTERS WITHIN PUBLIC OPEN SPACE TO BE VEGETATED IN ACCORDANCE WITH THE APPROVED OPEN SPACE MANAGEMENT PLAN (OSMP).
13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OUT GPT'S, SEDIMENT FOREBAYS AND ALL OTHER SEDIMENT CONTROL DEVICES DURING CONSTRUCTION AND PRIOR BOTH ON AND OFF MAINTENANCE INSPECTIONS WITH CoGC. THE CONTRACTOR SHALL ALLOW FOR THE COST OF THESE WORKS WITHIN THEIR SUBMITTED TENDER PRICE.

CONSTRUCTION SEQUENCE/SILT MANAGEMENT PROGRAM

1. **PRE START**

a. ERECT SITE SIGNAGE, CONSTRUCT ENTRY AND EXIT POINT AS INDICATED CONSTRUCT VEHICLE WASH-DOWN AREA AND ASSOCIATED SILT MANAGEMENT DEVICES.

b. CONSTRUCT SITE OFFICE AND STORAGE COMPOUND AREA

c. ERECT SILT FENCE AT LOW POINTS OF THE SITE AS DEMONSTRATED

d. ERECT TEMPORARY TREE PROTECTION FENCING FOR VEGETATION TO BE RETAINED IN ACCORDANCE WITH AN OPW (TREE CLEARING) APPROVAL OR IN ACCORDANCE WITH AS4970 PROTECTION OF TREES ON DEVELOPMENT SITE.

e. CONSTRUCT ROCK CHECK DAMS AND SILT FENCE DOWN STREAM OF BASIN.

f. CONSTRUCT BASIN TO FULL DEPTH.

g. CONSTRUCT BALANCE OF BASIN IN CONJUNCTION WITH CLEARING AND BULK EARTHWORKS OPERATIONS.

h. BASIN TO BE UTILISED AS A TEMPORARY SEDIMENT BASIN. DO NOT FILL IN FILTRATION MATERIAL UNTIL CONSTRUCTION OF DEVELOPMENT IS COMPLETE.
2. **CLEARING AND BULK EARTHWORKS**
THERE SHALL BE NO CLEARING OF PROTECTED SITE VEGETATION WITHOUT AN APPROVED TREE CLEARING PLAN WHICH SHALL BE IN ACCORDANCE WITH AS4970. SILT FENCE, SAND BAGS AND EARTH RILLS WITHIN ROADS TO BE ERECTED AS INDICATED OR REQUIRED DURING CLEARING & EARTHWORKS. SUPERINTENDENT TO CONFIRM THE EXTENT OF CLEARING PRIOR TO COMMENCEMENT OF WORKS.
3. **CONSTRUCTION OF SEWER/ROOFWATER / STORMWATER /SERVICES**
EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE OF TRENCH AND TO PROTECT PIPE WORK AND DIRECT SURFACE MATERIAL AWAY FROM EXCAVATIONS. TOPSOIL AND GRASS SEED AREAS IN ALLOTMENTS IMMEDIATELY AFTER COMPLETING THE SEWER AND ROOFWATER DRAINAGE CONSTRUCTION. DEPRESS GROUND AROUND TEMPORARY FIELD INLETS TO CREATE SILT POND.
4. **CONSTRUCTION – SEDIMENT BASINS**
SEDIMENT BASIN TO BE CONSTRUCTED TO THE EARTHWORK PROFILES SHOWN. STORMWATER OUTLET PIPES TO BE TEMPORARY BLOCKED OFF UNTIL DECOMMISSIONING OF SEDIMENT BASIN (SUBSEQUENT TO CONSTRUCTION OF ALL STAGES). PLACE SPOIL FROM SEDIMENT BASIN INTO ALLOCATED AREAS AS ENGINEERED FILL IN ACCORDANCE WITH THE STAGING ORDER. SEDIMENT BASIN SHALL ONLY BE REMOVED AFTER APPROVAL BY SUPERINTENDENT AND COUNCIL.
5. **CONSTRUCTION – STOCKPILING**
TEMPORARY SILT FENCE TO BE ERECTED 5m FROM TOE OF BATTER ON LOW SIDE OF STOCKPILING. STOCKPILE SITE TO BE CLEARED OF ADJACENT PROPERTY BOUNDARIES SO AS NOT TO CAUSE NUISANCE TO ADJOINING PROPERTIES. NO STOCKPILES ARE TO BE LOCATED WITHIN THE DRIP ZONE OR STRUCTURAL ROOT ZONE OF ANY RETAINED VEGETATION.
6. **CONSTRUCTION – ROADWORKS**
SILT FENCES TO ALLOTMENTS TO BE ERECTED. KERB INLET PROTECTION TO BE PROVIDED TO ALL GULLIES.
7. **CONSTRUCTION – ALLOTMENTS**
TOPSOIL AND SEED ALLOTMENTS. SILT FENCES TO ALLOTMENTS TO BE RE-ERECTED. COVERS TO GULLY GRATES TO BE REMOVED IF THE SUPERINTENDENT INDICATE THE GRASS STRIKE IS SUFFICIENT (80% WITHIN 30 CALENDAR DAYS OF FINAL ALLOTMENT RIMMING).
8. **POST CONSTRUCTION – ALLOTMENTS**
TOPSOIL AND GRASS SEED ALL ALLOTMENTS. COVERS TO GULLY GRATES TO BE REMOVED IF THE SUPERINTENDENT INDICATES THE GRASS STRIKE IS SUFFICIENT (80% WITHIN 30 CALENDAR DAYS OF FINAL ALLOTMENT TRIMMING).
9. **POST CONSTRUCTION – BASIN**
BASIN TO CONTINUE ACTING AS SEDIMENT BASIN UNTIL COMPLETION OF ALL STAGES.
10. **POST CONSTRUCTION – ROAD RESERVES**
TOPSOIL AND TURFING IS TO BE PROVIDED BEHIND KERB.
11. **MAINTENANCE (PRE TO POST CONSTRUCTION)**
THE SILT FENCES ARE TO BE INSPECTED WEEKLY. ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY. SILT AFTER RAIN IS TO BE CLEANED FROM STREETS AND ALLOTMENTS IMMEDIATELY AND CORRECTIVE ACTION TAKEN TO AVOID A RE-OCCURRENCE OF THE FAILURE.
12. **BASIN CONSTRUCTION**
PRIOR TO COMMENCING CONSTRUCTION OF THE DETENTION BASIN THE DIVERSION OF SURFACE WATER FROM THE PROPOSED WORK AREAS, USING MEASURES SUCH AS OPEN DRAINS/SUMPS, ARE REQUIRED TO AID IN SITE DE-WATERING. BASIN TO CONTINUE ACTING AS SEDIMENT BASIN UNTIL 85% OF CATCHMENT CONSTRUCTION IS COMPLETE. THE CLAY FILLING FOR THE BASIN WALLS SHALL BE PLACED IN HORIZONTAL LAYERS OF 200mm THICKNESS AND COMPACTED TO DENSITY RATIO WITHIN THE RANGE 98%–102% STANDARD COMPACTION (AS 1289.5.1.1). PLACEMENT MOISTURE CONTENT SHOULD BE WITHIN THE RANGE OMC –1% TO OMC –2% (WHERE OMC = OPTIMUM MOISTURE CONTENT FOR STANDARD COMPACTION). CONTRACTOR TO PROVIDE SAFETY FENCING TO BASIN DURING CONSTRUCTION AND APPROPRIATE SIGNAGE (PERMANENT OR TEMPORARY).



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T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

M38 INDUSTRIAL
PARK YATALA

Site Address:

60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

GENERAL NOTES
SHEET 1 OF 2

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
ISSU	Date	Description	DRN	CHK

NOT APPLICABLE

Scale at A1:

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Designed:

IG

Drafted:

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Approved:

MG

RPEQ:

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Signed:

Date:

20-02-2020

Drawing No:

5941 ENG BE1 002

Rev. No:

B

HES BASIN GENERAL NOTES

AUTO DOSER

1. PROVIDED AS EITHER 'FLOC BOX' OR 'FOD-RAIN' DOSING UNIT OR APPROVED EQUIVALENT TO MANUFACTURERS SPECIFICATION.
2. DOSER AND SUPPLY OF FLOCCULANT TO BE PROVIDED ON LEVEL PAD 4mX4m WITHIN 10m OF DOSING POINT.
3. ALL-WEATHER ACCESS TRACK TO BE PROVIDED TO DOSER.
4. FLOCCULANT PROVIDED AS TURBICLEAR (ACH) OR APPROVED EQUIVALENT. IF ALTERNATIVE FLOCCULANT USED THEN THE BASIN SIZE IS TO BE INCREASED ACCORDING TO JAR SETTLEMENT TEST (REFER TO TABLE BELOW).

JAR SETTLEMENT AFTER 15 MINS	MULTIPLICATION FACTOR TO SETTLING ZONE
(mm)	VOLUME
50	x3.0
75	x2.0
100	x1.5
150	x1.0

BASIN CONSTRUCTION

MATERIALS

5. EARTH FILL: CLEAN SOIL WITH EMERSON CLASS 2(I), 3, 4 OR 5 AND FREE OF ROOTS, WOODY VEGETATION, ROCKS AND OTHER UNSUITABLE MATERIAL. SOIL WITH EMERSON CLASS 4 AND 5 MAY NOT BE SUITABLE DEPENDING ON PARTICLE SIZE DISTRIBUTION AND DEGREE OF DISPERSION. CLASS 2 (I) SHOULD ONLY BE USED UPON RECOMMENDATION FROM GEOTECHNICAL SPECIALIST.
6. SPILLWAY ROCK: HARD, ANGULAR, DURABLE, WEATHER RESISTANT AND EVENLY GRADED ROCK WITH 50% BY WEIGHT LARGER THAN THE SPECIFIED NOMINAL (D50) ROCK SIZE. LARGE ROCK SHOULD DOMINATE, WITH SUFFICIENT SMALL ROCK TO FILL THE VOIDS BETWEEN LARGER ROCK. THE DIAMETER OF THE LARGEST ROCK SHOULD BE NO LARGER THAN 1.5 TIMES THE NOMINAL ROCK SIZE. THE SPECIFIC GRAVITY SHOULD BE AT LEAST 2.5.
7. GEOTEXTILE FABRIC: HEAVY DUTY, NEEDLE-PUNCHED, NON-WOVEN CLOTH, MINIMUM 'BIDIM' A24 OR EQUIVALENT.

CONSTRUCTION

8. NOTWITHSTANDING ANY DESCRIPTION CONTAINED WITH APPROVED PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR SATISFYING THEMSELVES AS TO THE NATURE AND EXTENT OF THE SPECIFIED WORKS AND THE PHYSICAL AND LEGAL CONDITIONS UNDER WHICH THE WORKS WILL BE CARRIED OUT. THIS SHALL INCLUDE MEANS OF ACCESS, EXTENT OF CLEARING, NATURE OF THE MATERIALS TO BE EXCAVATED, TYPE AND SIZE OF MECHANICAL PLANT REQUIRED, LOCATION AND SUITABILITY OF WATER SUPPLY FOR CONSTRUCTION AND TESTING PURPOSES, AND ANY OTHER LIKELY MATTERS AFFECTING THE CONSTRUCTION OF THE WORKS.
9. REFER TO APPROVED PLANS FOR LOCATION, DIMENSIONS, AND CONSTRUCTION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
10. BEFORE STARTING ANY CLEARING OR CONSTRUCTION, ENSURE ALL THE NECESSARY MATERIALS AND COMPONENTS ARE ON THE SITE TO AVOID DELAYS IN COMPLETING THE SEDIMENT BASIN ONCE WORKS BEGIN.
11. INSTALL REQUIRED SHORT TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE PROPOSED EARTHWORKS TO CONTROL SEDIMENT RUNOFF DURING CONSTRUCTION OF THE BASIN.
12. THE AREA TO BE COVERED BY THE EMBANKMENT, BORROW PITS AND INCIDENTAL WORKS, TOGETHER WITH AN AREA EXTENDING BEYOND THE LIMITS OF EACH FOR A DISTANCE NOT EXCEEDING FIVE (5) METRES ALL AROUND MUST BE CLEARED OF ALL TREES, SCRUB, STUMPS, ROOTS, DEAD TIMBER AND RUBBISH AND DISPOSED OF IN A SUITABLE MANNER, DELAY CLEARING THE MAIN BASIN AREA UNTIL THE EMBANKMENT IS COMPLETE.
13. ENSURE ALL HOLES MADE BY GRUBBING WITHIN THE EMBANKMENT FOOTPRINT ARE FILLED WITH SOUND MATERIAL, ADEQUATELY COMPACTED, AND FINISHED FLUSH WITH THE NATURAL SURFACE.

CUT-OFF TRENCH

14. BEFORE CONSTRUCTION OF THE CUT-OFF TRENCH OR ANY ANCILLARY WORKS WITHIN THE EMBANKMENT FOOTPRINT, ALL GRASS GROWTH AND TOPSOIL MUST BE REMOVED FROM THE AREA TO BE OCCUPIED BY THE EMBANKMENT AND MUST BE DEPOSITED CLEAR OF THIS AREA AND RESERVED FOR TOPDRESSING THE COMPLETED EMBANKMENT.

15. EXCAVATE A CUT-OFF TRENCH ALONG THE CENTRE LINE OF THE EARTH FILL EMBANKMENT. CUT THE TRENCH TO STABLE SOIL MATERIAL, BUT IN NO CASE MAKE IT LESS THAN 600mm DEEP. THE CUT-OFF TRENCH MUST EXTEND INTO BOTH ABUTMENTS TO AT LEAST THE ELEVATION OF THE OUTLET SPILLWAY CREST. MAKE THE MINIMUM BOTTOM WIDTH WIDE ENOUGH TO PERMIT OPERATION OF THE EXCAVATION AND COMPACTION EQUIPMENT, BUT IN NO CASE LESS THAN 600mm. MAKE THE SIDE SLOPES OF THE TRENCH NO STEEPER THAN 1:2 (H:V).
16. ENSURE ALL WATER, LOOSE SOIL, AND ROCK ARE REMOVED FROM THE TRENCH BEFORE BACKFILLING COMMENCES. THE CUT-OFF TRENCH MUST BE BACKFILLED WITH SELECT EARTH—FILL OF THE TYPE SPECIFIED FOR THE EMBANKMENT, AND THIS SOIL MUST HAVE A MOISTURE CONTENT AND DEGREE OF COMPACTION THE SAME AS SPECIFIED FOR THE CORE ZONE.
17. MATERIAL EXCAVATED FROM THE CUT-OFF TRENCH MAY BE USED IN THE CONSTRUCTION OF THE EMBANKMENT PROVIDED IT IS SUITABLE AND IT IS PLACED IN THE CORRECT ZONE ACCORDING TO ITS CLASSIFICATION.

EMBANKMENT

18. SCARIFY AREAS ON WHICH FILL IS TO BE PLACED BEFORE PLACING THE FILL.
19. ENSURE ALL FILL MATERIAL USED TO FORM THE EMBANKMENT MEETS THE SPECIFICATIONS CERTIFIED BY A SOIL SCIENTIST OF GEOTECHNICAL SPECIALIST.
20. THE FILL MATERIAL MUST CONTAIN SUFFICIENT MOISTURE SO IT CAN BE FORMED BY HAND INTO A BALL WITHOUT CRUMBLING. IF WATER CAN BE SQUEEZED OUT OF THE BALL, IT IS TOO WET FOR PROPER COMPACTION. PLACE FILL MATERIAL IN 150 TO 200mm CONTINUOUS LAYERS OVER THE ENTIRE LENGTH OF THE FILL AREA AND THEN COMPACT BEFORE PLACEMENT OF FURTHER FILL.
21. UNLESS SPECIFIED ON THE APPROVED PLANS, COMPACT THE SOIL AT ABOUT 1% TO 2% WET OPTIMUM AND TO 95% MODIFIED OR 100% STANDARD COMPACTION.
22. WHERE BOTH DISPERSIVE AND NON-DISPERSIVE CLASSIFIED EARTH-FILL MATERIALS ARE AVAILABLE, NON-DISPERSIVE EARTH-FILL MUST BE USED IN THE CORE ZONE. THE REMAINING CLASSIFIED EARTH-FILL MATERIALS MUST ONLY BE USED AS DIRECTED BY THE SITE SUPERINTENDENT.
23. WHERE SPECIFIED, CONSTRUCT THE EMBANKMENT TO AN ELEVATION 10% HIGHER THAN THE DESIGN HEIGHT TO ALLOW FOR SETTLING; OTHERWISE FINISHED DIMENSIONS OF THE EMBANKMENT AFTER SPREADING OF TOPSOIL MUST CONFORM TO THE DRAWING WITH A TOLERANCE OF 75mm FROM SPECIFIED DIMENSIONS.
24. ENSURE DEBRIS AND OTHER UNSUITABLE BUILDING WASTE IS NOT PLACED WITHIN THE EARTH EMBANKMENT.
25. AFTER COMPLETION OF THE EMBANKMENT ALL LOOSE UNCOMPACTED EARTH-FILL MATERIAL ON THE UPSTREAM AND DOWNSTREAM BATTER MUST BE REMOVED PRIOR TO SPREADING TOPSOIL.
26. TOPSOIL AND RE-VEGETATE/STABILISE ALL EXPOSED EARTH AS DIRECTED WITHIN THE APPROVED PLANS.

ESTABLISHING THE SETTLING POND

27. THE AREA TO BE COVERED BY THE STORED WATER OUTSIDE OF THE LIMITS OF THE BORROW PITS MUST BE CLEARED OF RUBBISH. TREES MUST BE CUT DOWN STUMP HIGH AND REMOVED FROM THE IMMEDIATE VICINITY OF THE WORK.
28. ESTABLISH ALL REQUIRED INFLOW CHUTES AND INLET BAFFLES IF SPECIFIED TO ENABLE WATER TO DISCHARGE INTO THE BASIN IN A MANNER THAT WILL NOT CAUSE SOIL EROSION OR THE RE-SUSPENSION OF SETTLED SEDIMENT.
29. INSTALL A SEDIMENT STORAGE LEVEL MARKER POST WITH A CROSS MEMBER SET JUST BELOW THE TOP OF THE SEDIMENT STORAGE ZONE (AS SPECIFIED ON THE APPROVED PLANS). USE AT LEAST A 75mm WIDE POST FIRMLY SET INTO THE BASIN FLOOR.
30. IF SPECIFIED, INSTALL INTERNAL SETTLING POND BAFFLES. ENSURE THE CREST OF THESE BAFFLES IS SET LEVEL WITH, OR JUST BELOW, THE ELEVATION OF THE EMERGENCY SPILLWAY.
31. INSTALL ALL APPROPRIATE MEASURES TO MINIMISE SAFETY RISK TO ON-SITE PERSONNEL AND THE PUBLIC CAUSED BY THE PRESENCE OF THE SETTLING POND. AVOID STEEP, SMOOTH INTERNAL SLOPES. APPROPRIATELY FENCE THE SETTLING POND AND POST WARNING SIGNS IF UNSUPERVISED PUBLIC ACCESS IS LIKELY OR THERE IS CONSIDERED TO BE AN UNACCEPTABLE RISK TO THE PUBLIC.

SPILLWAY CONSTRUCTION

32. THE SPILLWAY MUST BE EXCAVATED AS SHOWN ON THE PLANS, AND THE EXCAVATED MATERIAL IF CLASSIFIED AS SUITABLE, MUST BE USED IN THE EMBANKMENT, AND IF NOT SUITABLE IT MUST BE DISPOSED OF INTO SPOIL HEAPS.
33. ENSURE EXCAVATED DIMENSIONS ALLOW ADEQUATE BOXING-OUT SUCH THAT THE SPECIFIED ELEVATIONS, GRADES, CHUTE WIDTH, AND ENTRANCE AND EXIT SLOPES FOR THE EMERGENCY SPILLWAY WILL BE ACHIEVED AFTER PLACEMENT OF THE ROCK OR OTHER SCOUR PROTECTION MEASURES AS SPECIFIED IN THE PLANS.
34. PLACE SPECIFIED SCOUR PROTECTION MEASURES ON THE EMERGENCY SPILLWAY. ENSURE THE FINISHED GRADE BLENDS WITH THE SURROUNDING AREA TO ALLOW A SMOOTH FLOW TRANSITION FROM SPILLWAY TO DOWNSTREAM CHANNEL.
35. IF A SYNTHETIC FILTER FABRIC UNDERLAY IS SPECIFIED, PLACE THE FABRIC DIRECTLY ON THE PREPARED FOUNDATION. IF MORE THAN A SHEET OF FILTER FABRIC IS REQUIRED, OVERLAP THE EDGES BY AT LEAST 300mm AND PLACE ANCHOR PINS AT MINIMUM 1m SPACING ALONG THE OVERLAP. BURY THE UPSTREAM END OF THE FILTER FABRIC A MINIMUM 300mm BELOW GROUND AND WHERE NECESSARY, BURY THE LOWER END OF THE FABRIC OR OVERLAP A MINIMUM 300mm OVER THE NEXT DOWNSTREAM SECTION AS REQUIRED. ENSURE THE FILTER FABRIC EXTENDS AT LEAST 1000mm UPSTREAM OF THE SPILLWAY CREST.
36. TAKE CARE NOT TO DAMAGE THE FABRIC DURING OR AFTER PLACEMENT. IF DAMAGE OCCURS, REMOVE THE ROCK AND REPAIR THE SHEET BY ADDING ANOTHER LAYER OF FABRIC WITH A MINIMUM OVERLAP OF 300mm AROUND THE DAMAGED AREA. IF EXTENSIVE DAMAGE IS SUSPECTED, REMOVE AND REPLACE THE ENTIRE SHEET.
37. WHERE LARGE ROCK IS USED, OR MACHINE PLACEMENT IS DIFFICULT, A MINIMUM 100mm LAYER OF FINE GRAVEL, AGGREGATE, OR SAND MAY BE NEEDED TO PROTECT THE FABRIC.
38. PLACEMENT OF ROCK SHOULD FOLLOW IMMEDIATELY AFTER PLACEMENT OF THE FILTER FABRIC. PLACE ROCK SO THAT IT FORMS A DENSE, WELL GRADED MASS OF ROCK WITH A MINIMUM OF VOIDS. THE DESIRED DISTRIBUTION OF ROCK THROUGHOUT THE MASS MAY BE OBTAINED BY SELECTIVE LOADING AT THE QUARRY AND CONTROLLED DUMPING DURING FINAL PLACEMENT.
39. THE FINISHED SLOPE SHOULD BE FREE OF POCKETS OF SMALL ROCK OR CLUSTERS OF LARGE ROCKS. HAND PLACING MAY BE NECESSARY TO ACHIEVE THE PROPER DISTRIBUTION OF ROCK SIZES TO PRODUCE A RELATIVELY SMOOTH, UNIFORM SURFACE. THE FINISHED GRADE OF THE ROCK SHOULD BLEND WITH THE SURROUNDING AREA. NO OVER FALL OR PROTRUSION OF ROCK SHOULD BE APPARENT.
40. ENSURE THAT THE FINAL ARRANGEMENT OF THE SPILLWAY CREST WILL NOT PROMOTE EXCESSIVE FLOW THROUGH THE ROCK SUCH THAT THE WATER CAN BE RETAINED WITHIN THE SETTLING BASIN AT THE ELEVATION NO LESS THAN 50mm ABOVE OF BELOW THE NOMINATED SPILLWAY CREST ELEVATION.

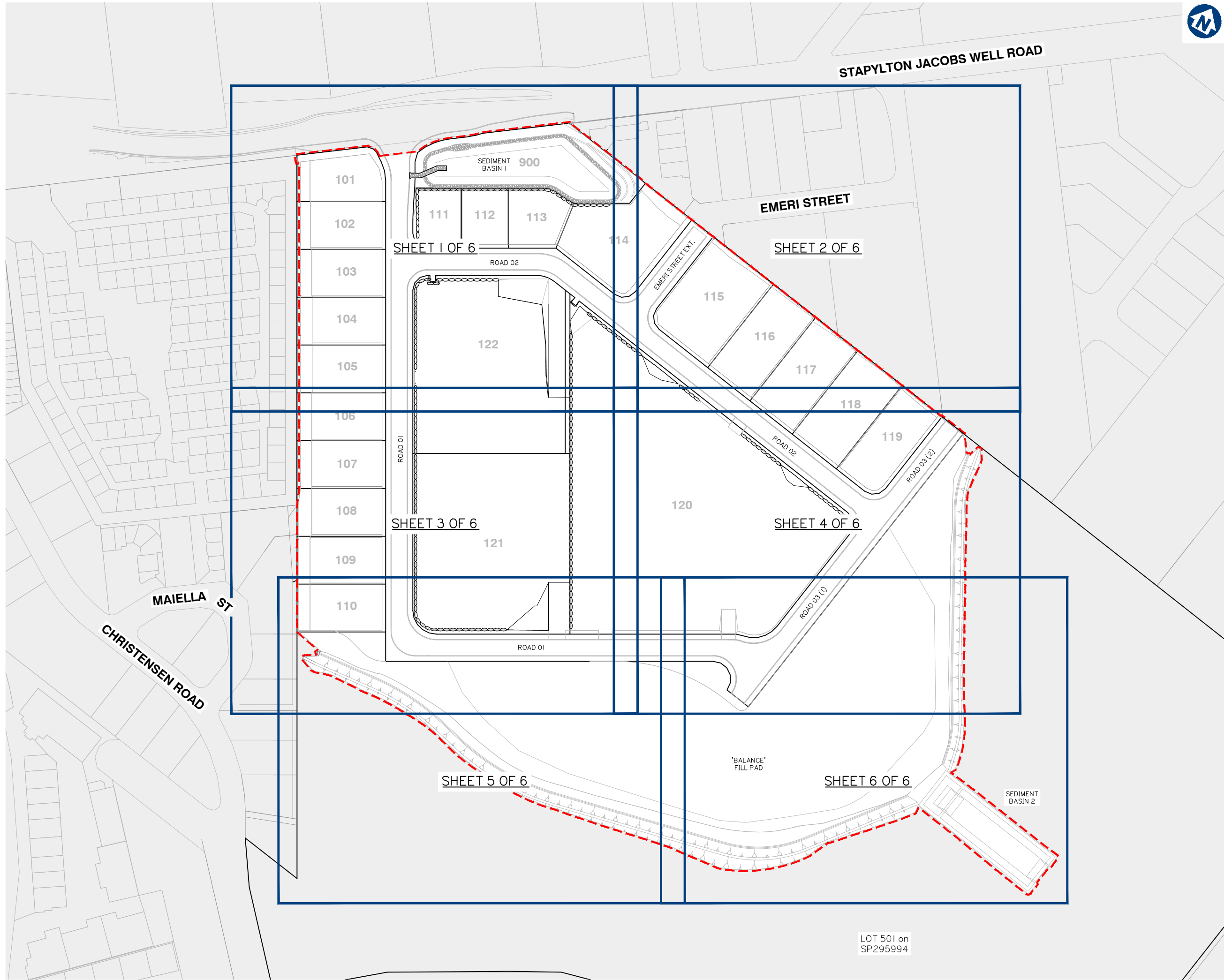
	OVERLAND FLOW PATH/SWALE
	CATCH DRAIN (NOT LINED)
	DIVERSION CHANNEL
	TABLE DRAIN
	STREAM INVERT
	CATCH DRAIN (CONCRETE LINED)
	SUBSOIL DRAINAGE
	SAWCUT
	SEDIMENT FENCE
	CHAINWIRE FENCE
	WOODEN FENCE
	BRIFEN WIRE SAFETY BARRIER
	GUARDRAIL (STANDARD)
	RETAINING WALL (PILED)
	RETAINING WALL (WITH FOOTINGS)
	RETAINING WALL
	ROCKBLOCK RETAINING WALL
	TOP OF BATTER / BERM
	NOISE WALL
	EDGE OF VEGETATION
	PROPERTY LINE
	PROPERTY LINE WITH FENCE
	PROPOSED KERB, FOOTPATH
	CONTROL LINE / CENTER OF ROAD
	RAILWAY (MAJOR)
	RAILWAY (MINOR)
	EXISTING PROPERTY LINE
	EXISTING PROPERTY LINE WITH FENCE
	EXISTING KERB, FOOTPATH
	EXISTING EDGE OF BITUMEN
	EXISTING RAILWAY (MAJOR)
	EXISTING RAILWAY (MINOR)
	LIMIT OF WORKS
	LIMIT OF SITE
	CATCHMENT BOUNDARY
	EXISTING CONTOURS
	DESIGN CONTOURS

RM	RM	RM		PROPOSED RISING MAIN
S	S	S	S	PROPOSED SEWER
				PROPOSED STORMWATER
SW	SW	SW	SW	PROPOSED ROOFWATER
RW	RW	RW		PROPOSED ROOFWATER
SS	SS	SS	SS	PROPOSED SUBSOIL
W	W	W	W	PROPOSED WATER
ROW	ROW	ROW		PROPOSED RECYCLED WATER
OIL	OIL	OIL	OIL	PROPOSED OIL
F	F	F	F	PROPOSED FUEL
G	G	G	G	PROPOSED GAS
P	P	P	P	PROPOSED PIPELINE
HV	HV	HV	HV	PROPOSED HIGH VOLTAGE ELECTRICITY
E	E	E	E	PROPOSED UNDERGROUND ELECTRICITY
E	E	E	E	PROPOSED OVERHEAD ELECTRICITY
L	L	L	L	PROPOSED LIGHTING
T	T	T	T	PROPOSED TELSTRA
C	C	C	C	PROPOSED COMMUNICATIONS
GE	GE	GE	GE	PROPOSED GAS, ELECT
GT	GT	GT	GT	PROPOSED GAS, TELSTRA
ET	ET	ET	ET	PROPOSED ELECT, TELSTRA
GET	GET	GET	GET	PROPOSED GAS, ELECTRICITY, TELSTRA
RM	RM	RM		EXISTING RISING MAIN
S	S	S	S	EXISTING SEWER
				EXISTING STORMWATER
SW	SW	SW	SW	EXISTING ROOFWATER
RW	RW	RW		EXISTING SUBSOIL
SS	SS	SS	SS	EXISTING SUBSOIL
W	W	W	W	EXISTING WATER
ROW	ROW	ROW		EXISTING RECYCLED WATER
OIL	OIL	OIL	OIL	EXISTING OIL
F	F	F	F	EXISTING FUEL
G	G	G	G	EXISTING GAS
P	P	P	P	EXISTING PIPELINE
HV	HV	HV	HV	EXISTING HIGH VOLTAGE ELECTRICITY
E	E	E	E	EXISTING UNDERGROUND ELECTRICITY
E	E	E	E	EXISTING OVERHEAD ELECTRICITY
L	L	L	L	EXISTING LIGHTING
T	T	T	T	EXISTING TELSTRA
C	C	C	C	EXISTING COMMUNICATIONS
GE	GE	GE	GE	EXISTING GAS, ELECT
GT	GT	GT	GT	EXISTING GAS, TELSTRA
ET	ET	ET	ET	EXISTING ELECT, TELSTRA
GET	GET	GET	GET	EXISTING GAS, ELECTRICITY, TELSTRA

RM	X	RM	X	RM	X	RM	X	DEMOLISH RISING MAIN
S	X	S	X	S	X	S	X	DEMOLISH SEWER
SW	X	SW	X	SW	X	SW	X	DEMOLISH STORMWATER
SS	X	SS	X	SS	X	SS	X	DEMOLISH SUBSOIL
W	X	W	X	W	X	W	X	DEMOLISH WATER
OIL	X	OIL	X	OIL	X	OIL	X	DEMOLISH OIL
F	X	F	X	F	X	F	X	DEMOLISH FUEL
HV	X	HV	X	HV	X	HV	X	DEMOLISH HIGH VOLTAGE ELECTRICITY
E	X	E	X	E	X	E	X	DEMOLISH UNDERGROUND ELECTRICITY
E	X	E	X	E	X	E	X	DEMOLISH OVERHEAD ELECTRICITY
L	X	L	X	L	X	L	X	DEMOLISH LIGHTING
G	X	G	X	G	X	G	X	DEMOLISH GAS
P	X	P	X	P	X	P	X	DEMOLISH PIPELINE
T	X	T	X	T	X	T	X	DEMOLISH TELSTRA
C	X	C	X	C	X	C	X	DEMOLISH COMMUNICATIONS

BK(A)	BARRIER KERB (A)
BK(B)	BARRIER KERB (B)
BK(G)	BARRIER KERB (G)
MK(D)	MOUNTABLE KERB (D)
SMK(C)	SEMI MOUNTABLE KERB (C)
ER(E)	EDGE RESTRAINT (E)
KER(F)	KERB EDGE RESTRAINT (F)
RK&C(H)	ROLL TOP KERB & CHANNEL (H)
BK&C(J)	BARRIER KERB & CHANNEL (J)
ERH	KERB EDGE RESTRAINT (HIGH)
ERL	KERB EDGE RESTRAINT (LOW)
CS(K/L)	CHANNEL SECTION (K/L)
PMB	PRECAST MOTOR BED
DD	DISH DRAIN
K&G	KERB AND GUTTER
K&T	KERB AND TOE
KO	KERB ONLY
MK	MOUNTABLE KERB
RK	ROLL KERB
EXISTING SIGN	EXISTING SIGN
PROPOSED SIGN	PROPOSED SIGN
PROPOSED ROAD EDGE GUIDE POST	PROPOSED ROAD EDGE GUIDE POST
EXISTING BIN	EXISTING BIN
POST BOX	POST BOX
TELEPHONE BOX	TELEPHONE BOX
TELSTRA PIT	TELSTRA PIT
TELSTRA MARKER POST	TELSTRA MARKER POST
WATER METER	WATER METER
WATER VALVE	WATER VALVE
FIRE HYDRANT	FIRE HYDRANT
WATER TAP	WATER TAP
WATER HYDRANT	WATER HYDRANT
WATER TEE	WATER TEE
WATER REDUCER	WATER REDUCER
WATER ENDCAP	WATER ENDCAP
WATER CONNECTION	WATER CONNECTION
WATER CROSSING	WATER CROSSING
WATER DICL	WATER DICL
SEWER MANHOLE	SEWER MANHOLE
SEWER RODDING END	SEWER RODDING END
SEWER BEND	SEWER BEND
SEWER MAINTENANCE SHAFT	SEWER MAINTENANCE SHAFT
SEWER 'T' END	SEWER 'T' END
SEWER SLUICE VALVE	SEWER SLUICE VALVE
SEWER PIT	SEWER PIT
SEWER PUMP STATION	SEWER PUMP STATION
TEMPORARY SEWER PUMP STATION	TEMPORARY SEWER PUMP STATION
SEWER / STORMWATER PIT NO/LINE	SEWER / STORMWATER PIT NO/LINE
SETOUT POINT	SETOUT POINT
OFFSET PIT WITH GRATE	OFFSET PIT WITH GRATE
IN LINE PIT WITH GRATE	IN LINE PIT WITH GRATE
JUNCTION PIT	JUNCTION PIT
LETTERBOX PIT	LETTERBOX PIT
GRATED INLET PIT	GRATED INLET PIT
MANHOLE	MANHOLE
GULLY PIT (LIP INLINE) BARRIER KERB	GULLY PIT (LIP INLINE) BARRIER KERB
GULLY PIT (LIP INLINE) BARRIER KERB	GULLY PIT (LIP INLINE) BARRIER KERB
GULLY PIT (LIP INLINE) ROLL TOP KERB	GULLY PIT (LIP INLINE) ROLL TOP KERB
GULLY PIT (LIP INLINE) ROLL TOP KERB	GULLY PIT (LIP INLINE) ROLL TOP KERB
GULLY PIT (KERB INLINE) – GRADE	GULLY PIT (KERB INLINE) – GRADE
GULLY PIT (KERB INLINE) – SAG	GULLY PIT (KERB INLINE) – SAG
INFILTRATION TRENCH	INFILTRATION TRENCH
HEADWALL	HEADWALL
GROSS POLLUTANT TRAP	GROSS POLLUTANT TRAP
STORMWATER CHAMBER	STORMWATER CHAMBER

● PP	POWER POLE
★ PP	POWER POLE WITH LIGHT
★ LP	LIGHT POLE
● SP	STAY POLE
—●—	LIGHT POLE WITH EXTENSION
E	ELECTRICAL INSPECTION BOX
○	ELECTRICAL POLE
⊠	ELECTRICAL TURRET
◇ TS	TRAFFIC SIGNAL
MRD	MAIN ROADS PIT
—○—	TANGENT POINT
(KRD)	KERB RETURN NO.
▵	PRAM RAMP
⌒	GRAVEL ROCK CHECK DAM
○ ○ ○	MESH & GRAVEL INLET FILTER
⊠	STORMWATER INLET FILTER
→	DIRECTION OF OVERLAND FLOW
	VEHICLE SHAKEDOWN
—○—	GATE
▒	NOT IN SCOPE OF WORKS
▒	DEMOLITION
▒	PROPOSED CONCRETE FOOTPATH
⊙	SCOUR PROTECTION
●	TREES
○	TADPOLE



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

KEY PLAN LAYOUT

Issue	Date	Description	IG	MG	JRG	CHK
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG		
A	20-12-2019	ORIGINAL ISSUE	JRG	MG		

SCALE IN METRES



1:1500 (FULL SIZE A1)
1:3000 (HALF SIZE A3)

Scale at A1: 1:1500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 005

Rev. No:
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Level Datum: AHD

Meridian:

Contour Interval:
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DRAWING TITLE

EXISTING SURFACE AND FEATURE PLAN

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MO
A		ORIGINAL ISSUE	JRG	MO
Issue	Date	Description	DRN	CH

SCALE IN METRES



1:1500 (FULL SIZE A1)
1:3000 (HALF SIZE A3)

Scale at A1: 1:1500

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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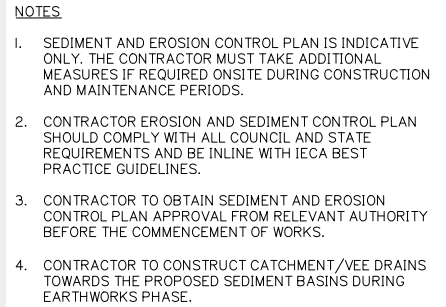
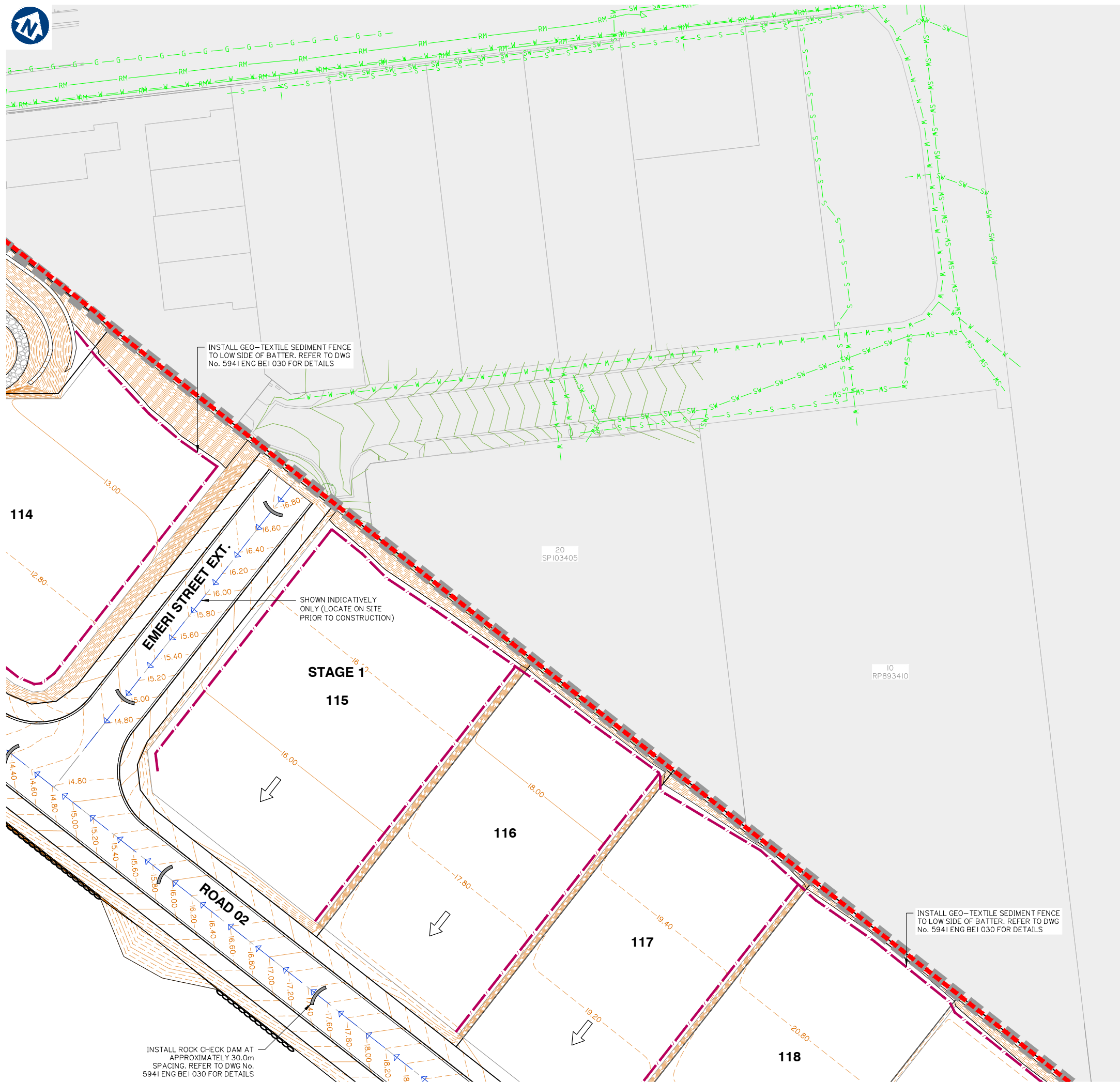
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Signed:

Date: 20-02-2020

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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 2 OF 6

[illegible]

SCALE IN METRES

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

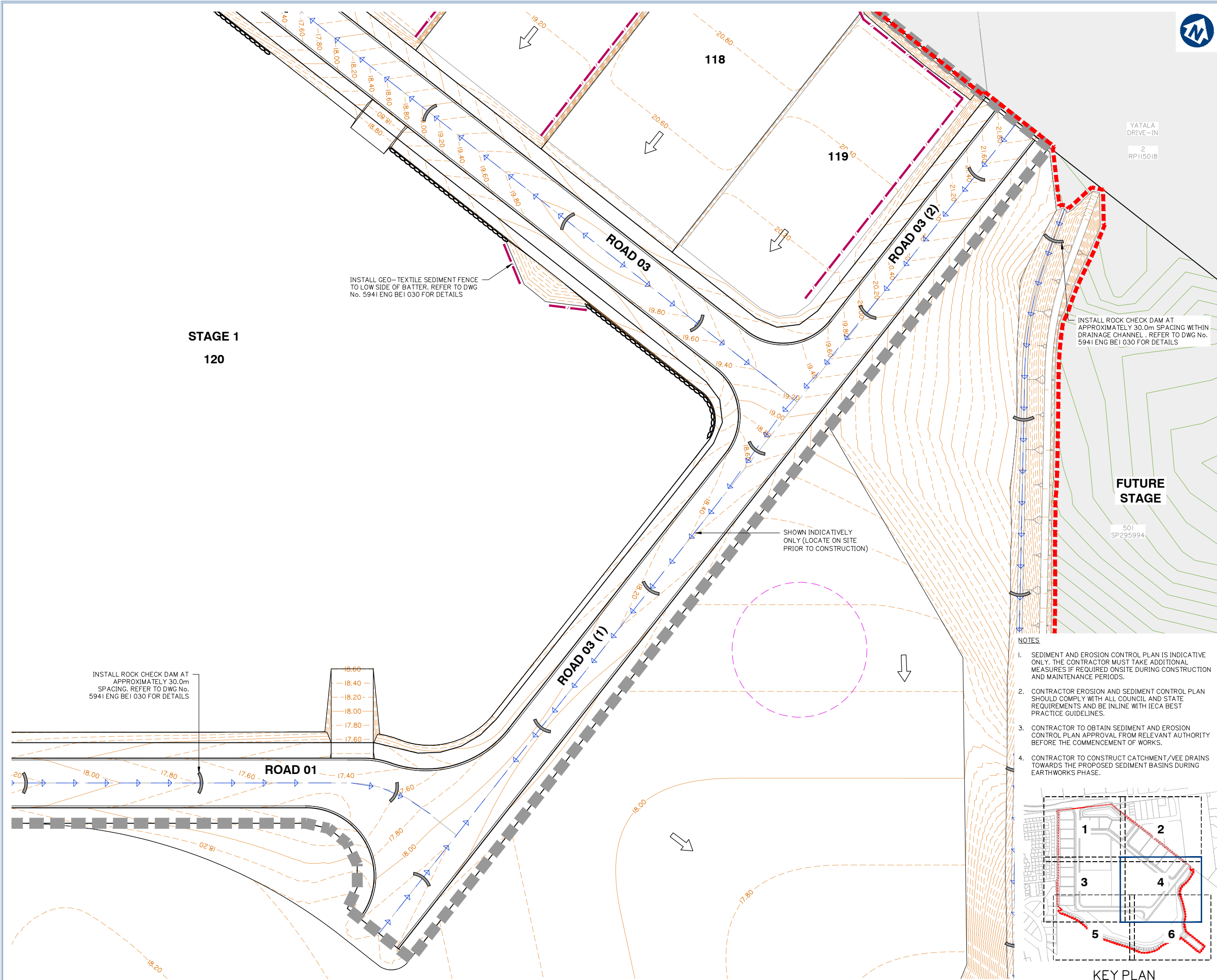
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PEQ:	16939
Signed:	
Date:	20-02-2020

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041 ENG BE1 021 B



Drawing No:	Rev. No:
5941 ENG BE1 022	B



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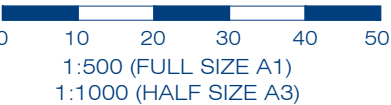
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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

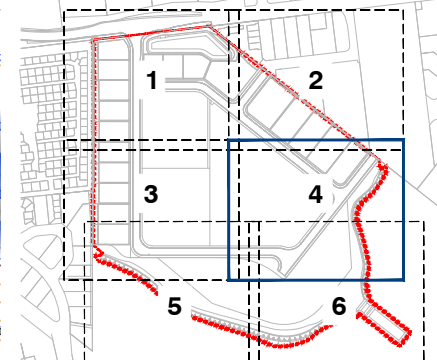


Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

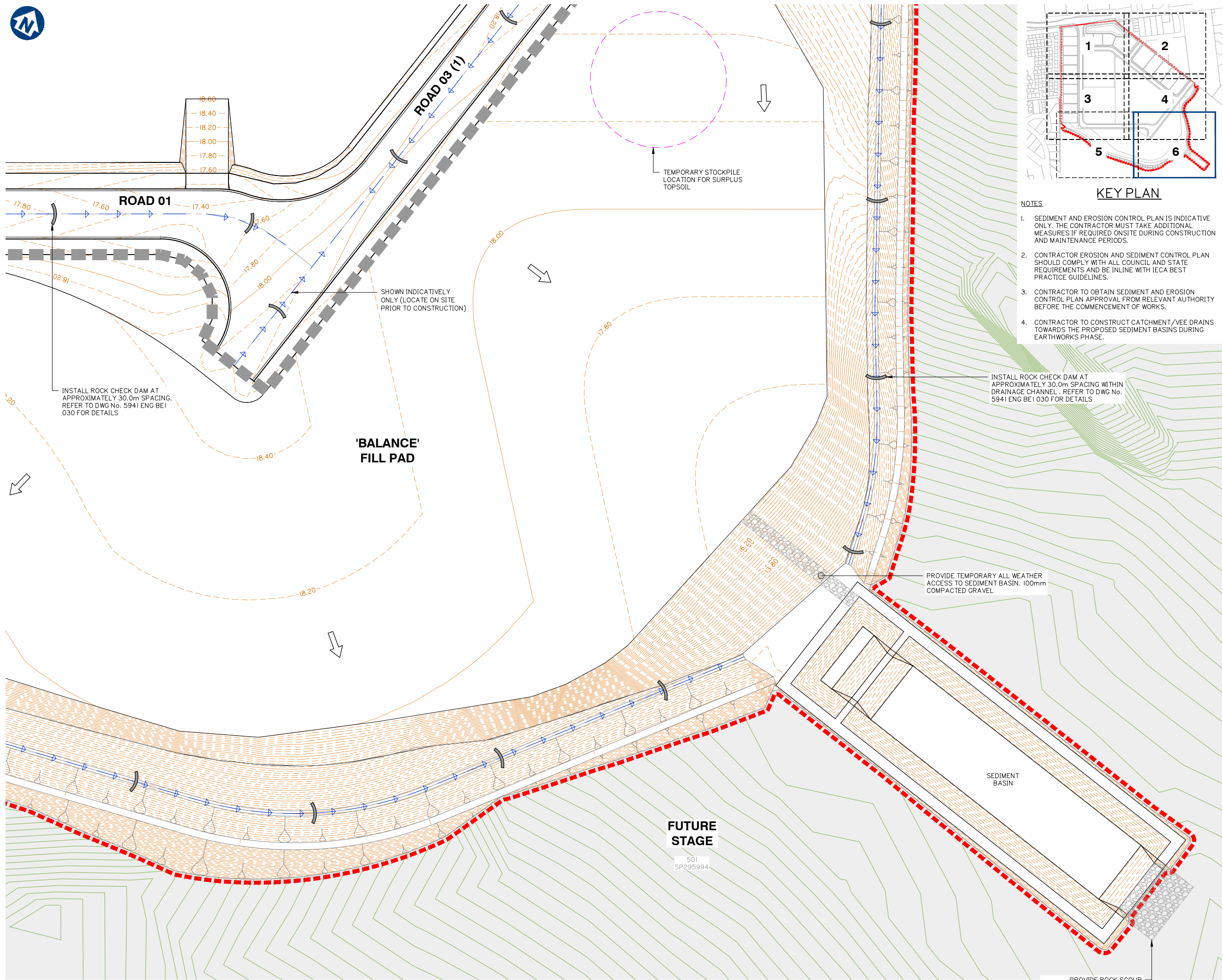
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KEY PLAN





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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 6 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	M
A	20-12-2019	ORIGINAL ISSUE	JRG	M
Issue	Date	Description	DRN	CH

SCALE IN METRES



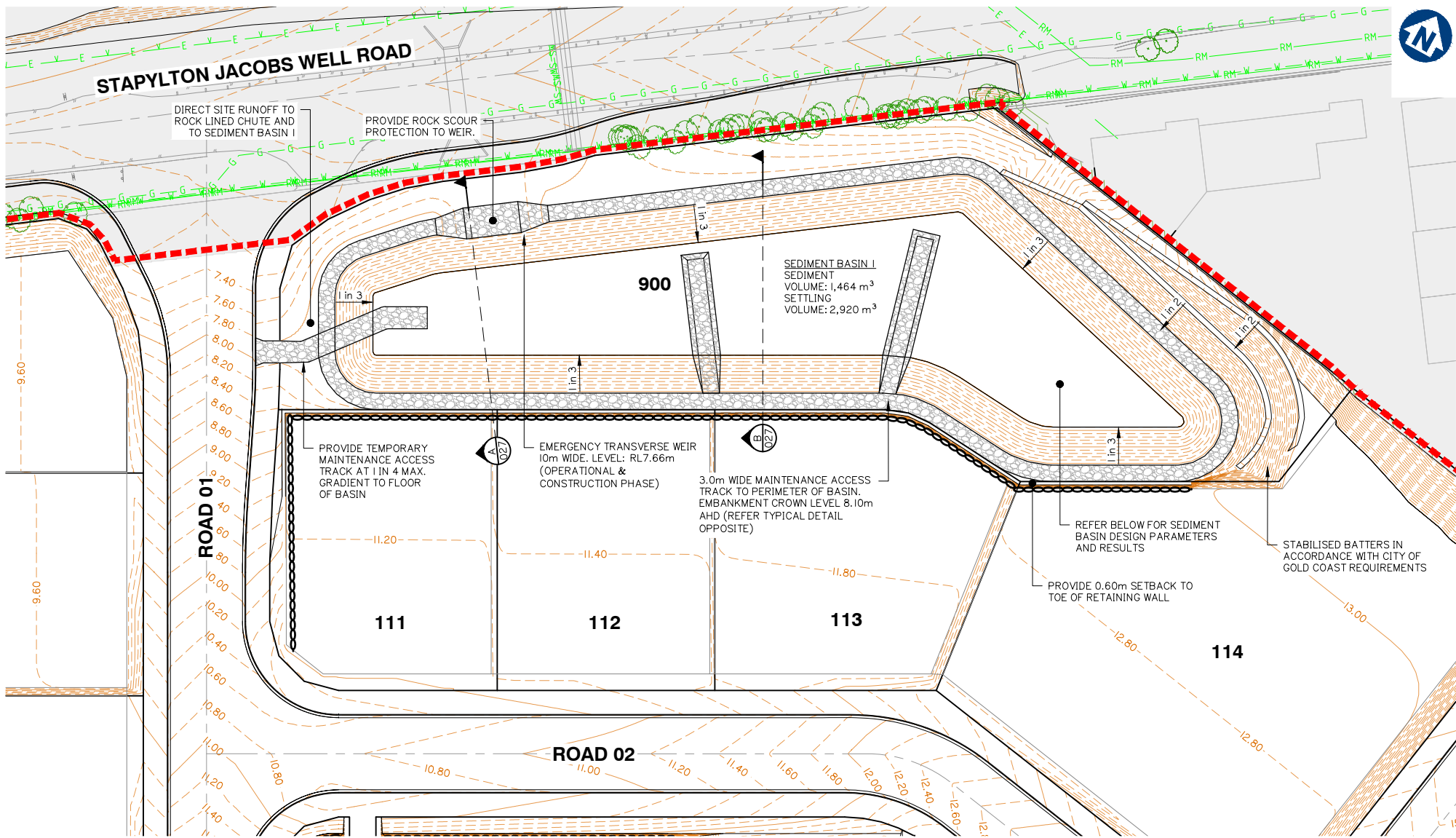
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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Approved:	MG
RPEQ:	16939
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Drawing No:
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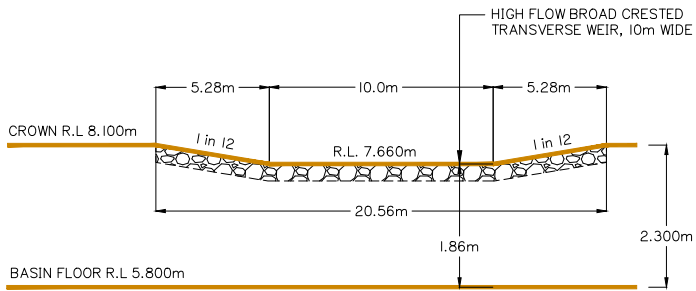
Rev. No:
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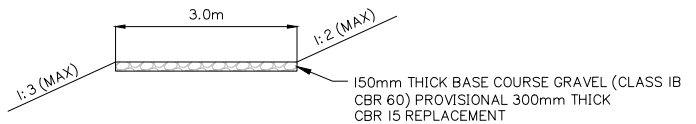
CONSTRUCTION PHASE SEDIMENT BASIN I LAYOUT
SCALE 1:500 (A1)

BASIN I – DESIGN PARAMETERS	
I (1 YEAR, 120hr)	1.46
K1	33.5
K2	14.2
R (Y%, 5–DAY)	63.11
Cv	0.29
A (Ha)	15.071
SETTLING ZONE VOLUME (V _s)	2758
SEDIMENT ZONE VOLUME (V _{sed})	1379

BASIN I – DESIGN RESULTS			
SEDIMENT ZONE		SETTLING ZONE	
I: 3 BATTER CALC		I: 3 BATTER CALC	
INPUT NOMINATED BASIN BASE AREA	2886	INPUT NOMINATED BASIN AREA	3351
INPUT NOMINATED SEDIMENT HEIGHT	0.47	INPUT NOMINATED SETTLING HEIGHT	0.78
INPUT OUTSIDE BOUNDARY LENGTH OF BASIN	326	INPUT OUTSIDE BOUNDARY LENGTH OF BASIN	335
SEDIMENT VOLUME CHECK, V _{sed}	1464	SETTLING VOLUME CHECK, V _s	2920



WEIR / SPILLWAY – TYPICAL ELEVATION
N.T.S.



MAINTENANCE ACCESS TRACK – TYPICAL SECTION
N.T.S.

- NOTES:
- ALL ALLOTMENTS TO GRADE TOWARDS THE ROAD AT MINIMUM I: 150 (0.67%) FALL, EXCEPT IF NOTED OTHERWISE.
 - SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ON SITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
 - CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL CITY OF GOLD COAST COUNCIL AND STATE REQUIREMENTS AND TO BE IN ACCORDANCE WITH INDUSTRY BEST PRACTICE GUIDELINES.
 - CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.

Client:



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



Scale at A1: 1:500

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Approved:	MG
RPEQ:	16939
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Date:	20-02-2020

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5941 ENG BE1 026

Rev. No:
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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
SECTIONS

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

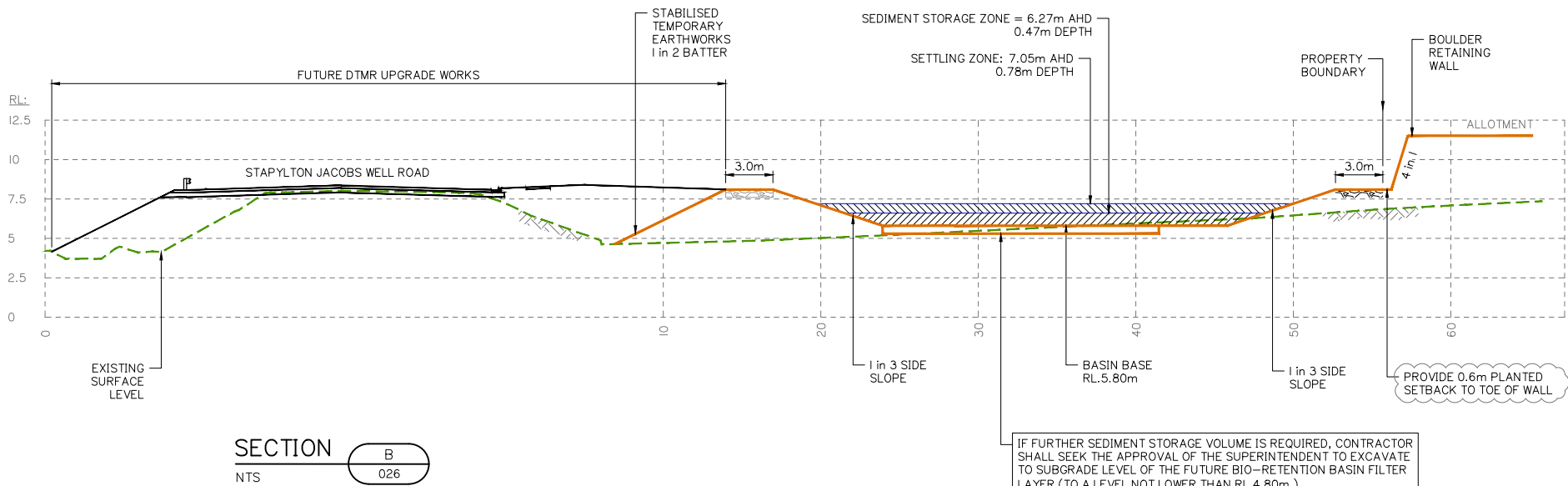
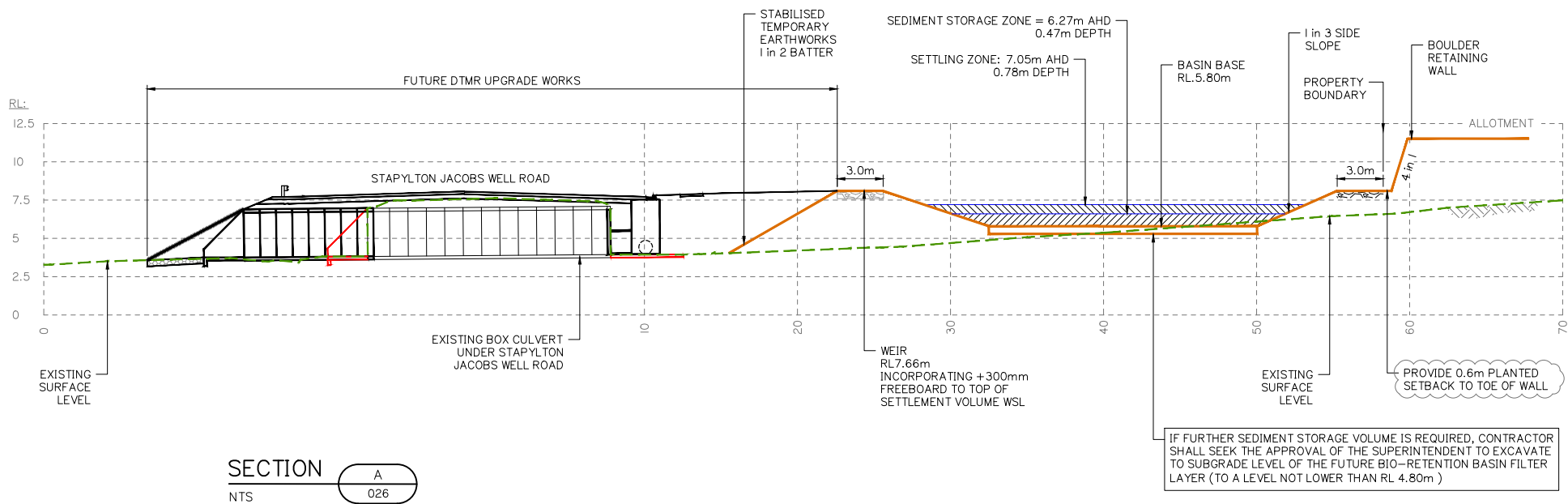
NOT TO SCALE

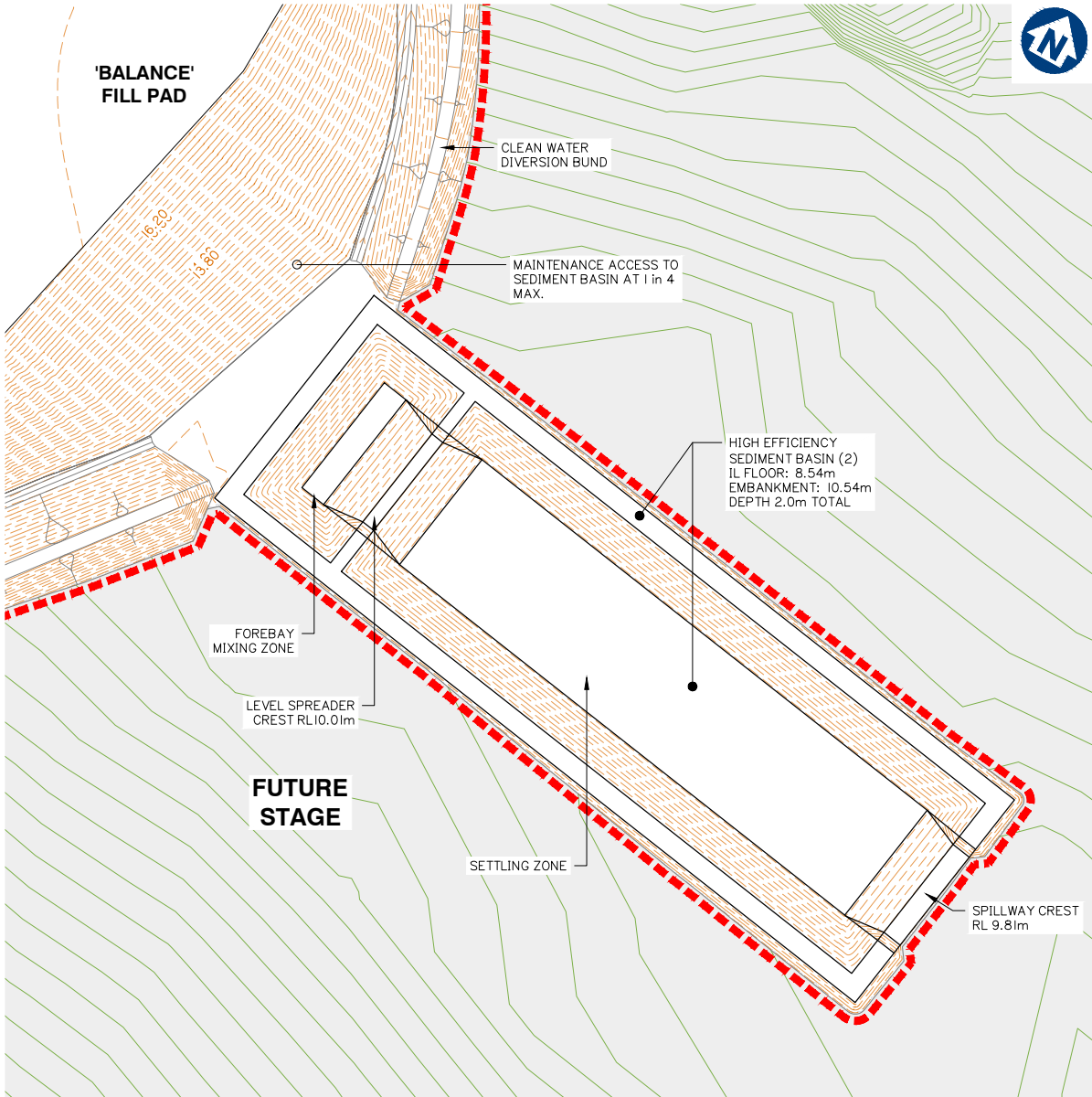
Scale at A1: NTS

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 027

Rev. No:
B





CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT
SCALE 1: 500 (A1)

DESIGN SEDIMENT BASIN PARAMETERS												
BASIN ID	SETTLING ZONE (incl. sediment storage)				FOREBAY				HYDRAULIC CONTROLS			
	VOLUME (m³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	SPILLWAY CREST LENGTH (m)	SPILLWAY CREST (RL)	EMBANKMENT (RL)	LEVEL SPREADER CREST (RL)
No.2	4113.1	94.0	31.3	2.00	589.57	9.4	31.3	2.00	19.1	9.81	10.54	10.01

BASIN ID	SELECT DURATION OF CATCHMENT DISTURBANCE	IS DEWATERING OF TRENCHES REQUIRED?	EQUIPMENT LEASE OR PURCHASE?	SELECT CATCHMENT SCALE	DO ALL FLOWS ENTER BASIN AT SINGLE POINT?	BASIN TYPE	DOSING EQUIPMENT	DEWATERING EQUIPMENT
No. 2	> 12 MONTHS	NO	LEASE	> 5Ha	NO	TYPE A	IFOD-RAIN	2.00

BASIN ID	CATCHMENT AREA	DESIGN EVENT	I_x yr. 24 hr	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W: L	OPTIMUM LOW-FLOW DECAN T RATE	SELECTED LOW-FLOW DECAN T RATE (Q_d)	MIN SETTling ZONE VOLUME (Min V_s)	MIN SETTling ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	
No. 2	11,955	1	4.53	20	11150	1.3	3	13	9	2938	1200	VOLUME

BASIN ID	SETTLING ZONE			FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETTling ZONE VOLUME (V_s)	ACTUAL SETTling ZONE AREA (A_s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
	(m³)	(m²)	(m/s)	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)
No. 2	2938	2260	0.007	0.22	294	881	0.48	3	31.3	94.0	2.00

	SPILLWAY										
BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C ₁₀	C	t _c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m ³ /s)	(m)	(m)	(m)	(m)
No. 2	> 12 MONTHS	1: 50	0.88	1.01	25.00	143.00	4.81	0.28	19.10	9.81	10.54

Client:



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 2
LAYOUT

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

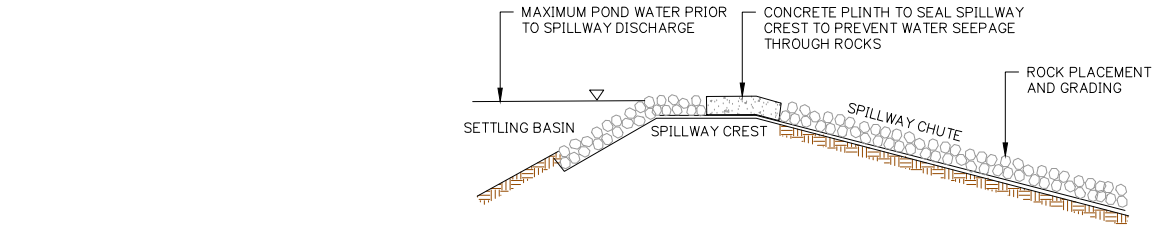


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1:1000 (HALF SIZE A3)

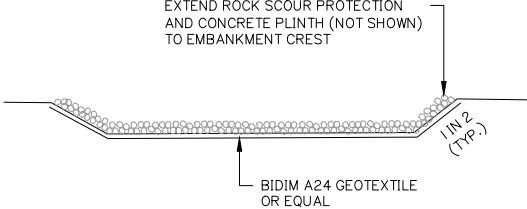
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

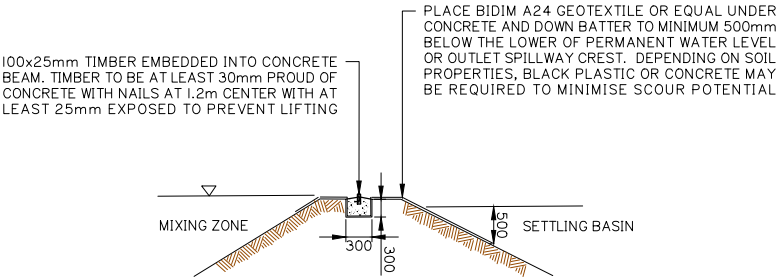
Drawing No: 5941 ENG BE1 028
Rev. No: B



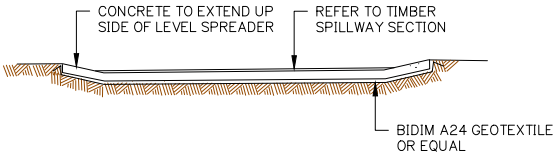
OUTLET SPILLWAY DETAILS
TYPICAL CROSS SECTION
NOT TO SCALE



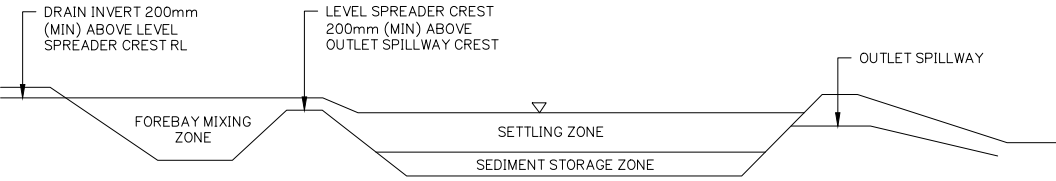
OUTLET SPILLWAY DETAILS
TYPICAL LONGITUDINAL SECTION
NOT TO SCALE



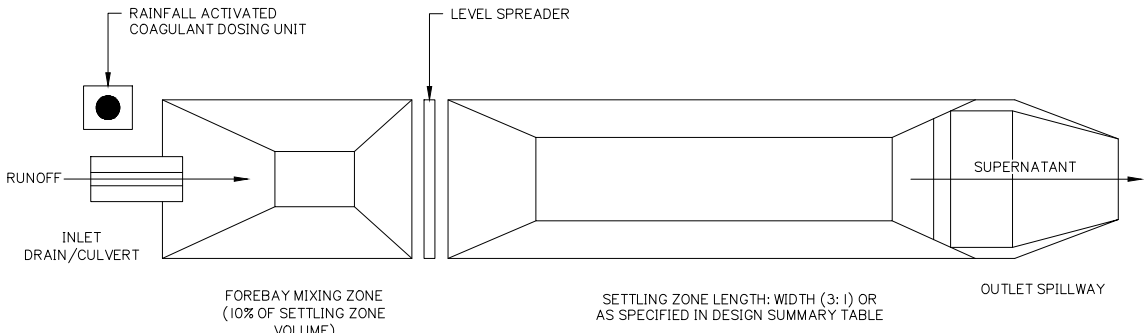
LEVEL SPREADER DETAILS
TYPICAL CROSS SECTION
NOT TO SCALE



LEVEL SPREADER DETAILS
TYPICAL LONG SECTION
NOT TO SCALE



TYPE A SEDIMENT BASIN LONGITUNDAL SECTION (TYP.)
NOT TO SCALE



TYPE A SEDIMENT BASIN PLAN VIEW (TYP.)
NOT TO SCALE

CONSTRUCTION PHASE SEDIMENT BASIN 2 SECTIONS



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Site Address:
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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 2
SECTIONS

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

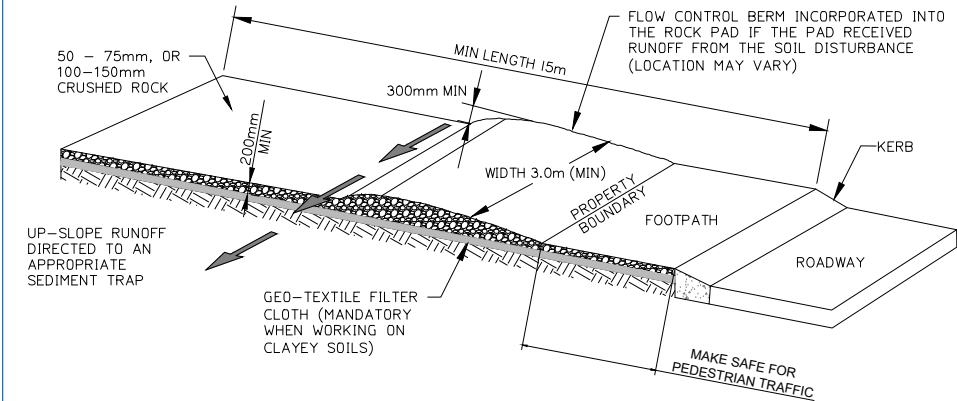


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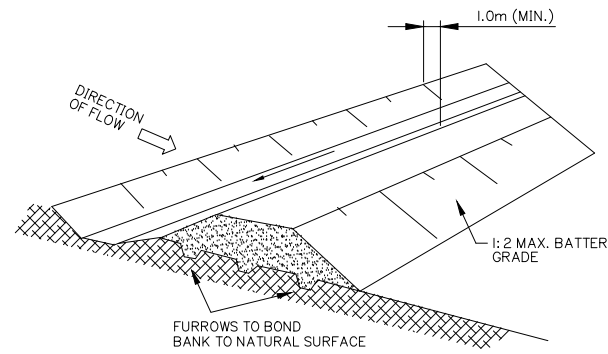
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

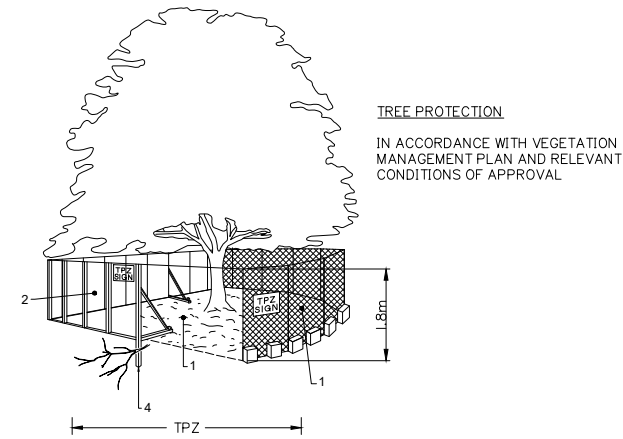
Drawing No: 5941 ENG BE1 029 Rev. No: B



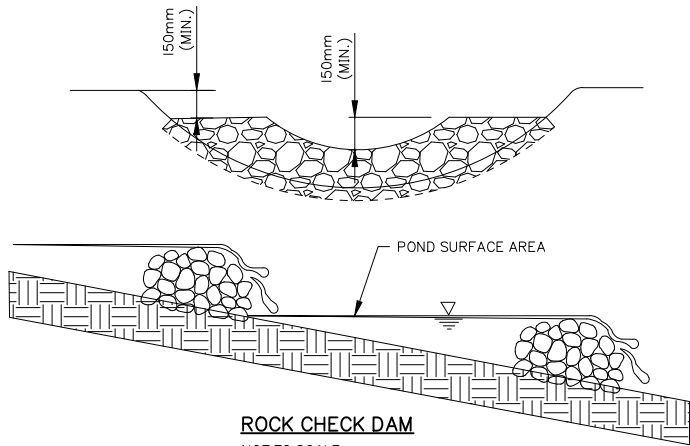
ENTRY/EXIT PAD FOR CONSTRUCTION SITE
NOT TO SCALE



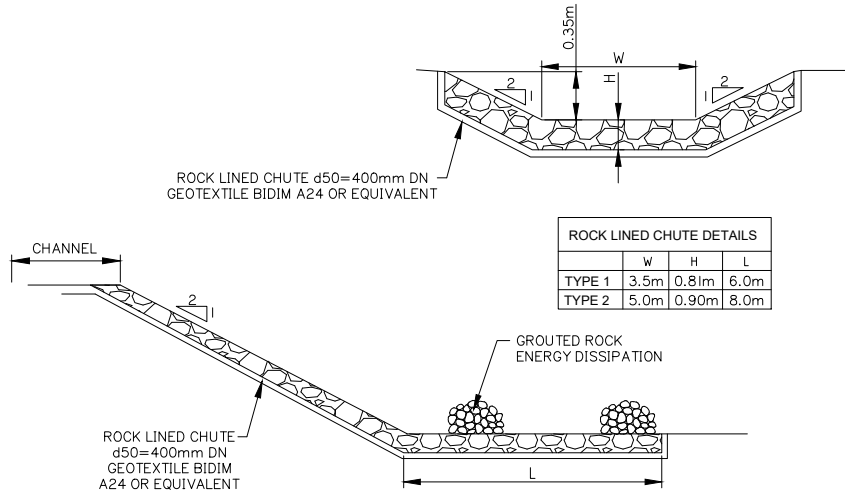
DIVERSION DRAIN
NOT TO SCALE



TREE PROTECTION
IN ACCORDANCE WITH VEGETATION
MANAGEMENT PLAN AND RELEVANT
CONDITIONS OF APPROVAL



ROCK CHECK DAM
NOT TO SCALE



ROCK LINED CHUTE
NOT TO SCALE

	W	H	L
TYPE 1	3.5m	0.81m	6.0m
TYPE 2	5.0m	0.90m	8.0m

FENCING AS PER AS: 4970

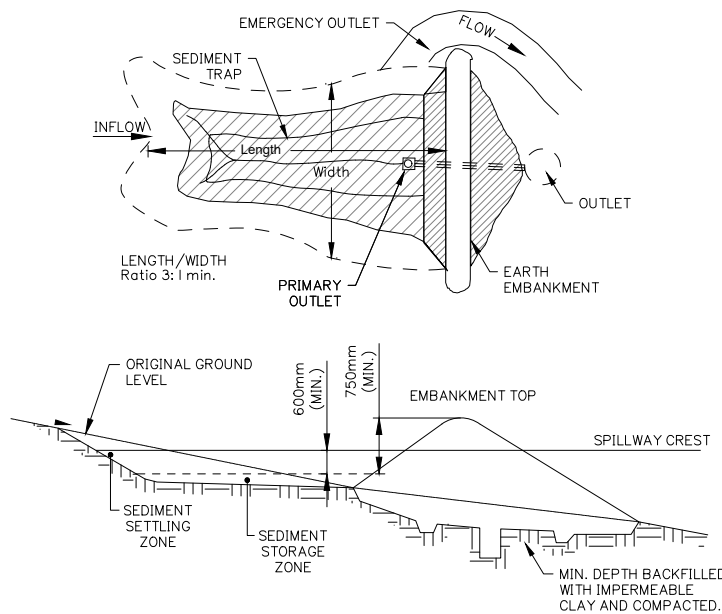
1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF THE PROJECT ARBORIST.) NO EXCAVATION, CONSTRUCTION ACTIVITY, GRADE CHANGES, SURFACE TREATMENT OR STORAGE OF MATERIALS OF ANY KIND IS PERMITTED WITHIN THE TPZ.
4. BRACING IS PERMITTED WITHIN THE TPZ. INSTALLATION OF SUPPORTS SHOULD AVOID DAMAGING ROOTS.
5. THE CONSTRUCTION CONTRACTOR IS NOT TO UNDERTAKE ANY PRUNING OF TREES. TREE MANAGEMENT IS TO BE UNDERTAKEN BY A SUITABLY QUALIFIED ARBORIST.
6. NO STOCKPILE/S ARE PERMITTED WITHIN THE ZONE OF ANY RETAINED VEGETATION WITHOUT SUPERVISION AND AUTHORIZATION OF THE SUPERVISING ARBORIST.
7. NO CLEARING OF PROTECTED SIZE VEGETATION IS TO OCCUR WITHOUT APPROVAL FROM LOGAN CITY COUNCIL.

DETERMINING THE TPZ

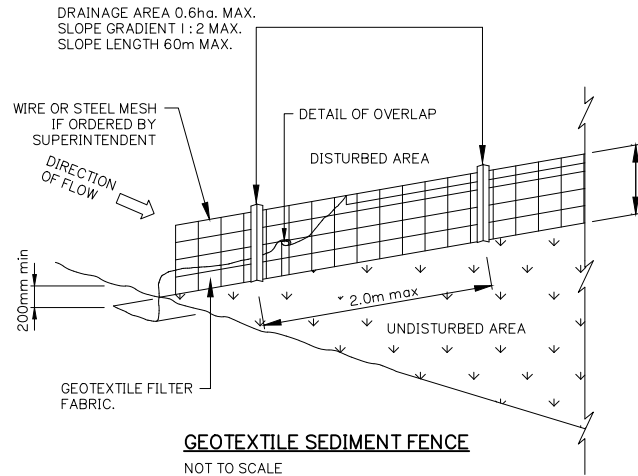
THE RADIUS OF THE TPZ IS CALCULATED FOR EACH TREE BY MULTIPLYING ITS DBH X 12 = TRUNK DIAMETER MEASURED AT 1.4M ABOVE GROUND. RADIUS IS MEASURED FROM THE CENTRE OF THE STEM AT GROUND LEVEL.

A TPZ SHOULD NOT BE LESS THAN 2M NOR GREATER THAN 15M (EXCEPT WHERE CROWN PROTECTION IS REQUIRED).
THE TPZ OF PALMS, OTHER MONOCOTS, CYCADS AND TREE FERNS SHOULD NOT BE LESS THAN 1M OUTSIDE THE CROWN PROJECTION.

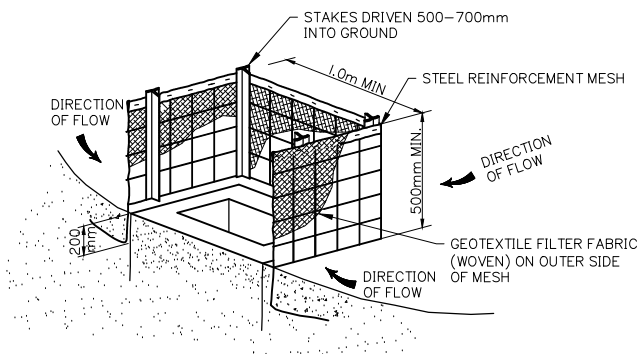
PROTECTIVE FENCING
NOT TO SCALE



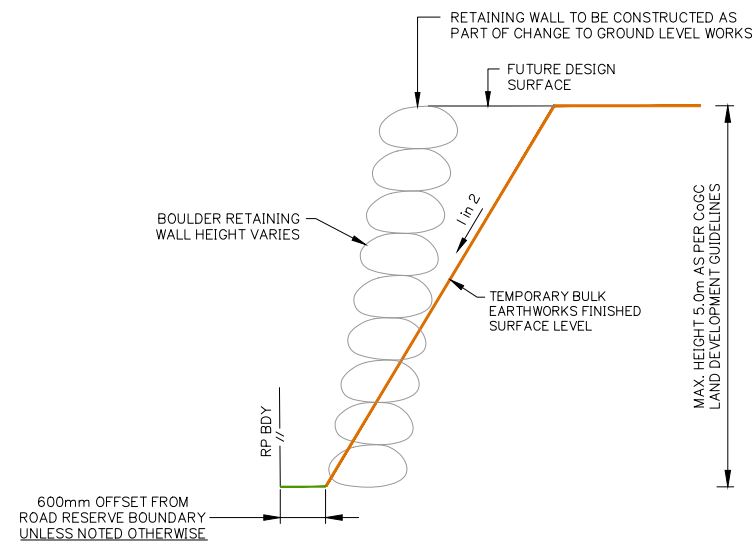
TYPICAL SEDIMENT BASIN
NOT TO SCALE



GEOTEXTILE SEDIMENT FENCE
NOT TO SCALE



STORMWATER INLET - SEDIMENT TRAP
NOTE:
FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY



TEMPORARY BATTER LOCATION
FOR RETAINING WALLS
NOT TO SCALE

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DRAWING TITLE

SEDIMENT AND EROSION
TYPICAL DETAILS

Rev	Date	Description	IG	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

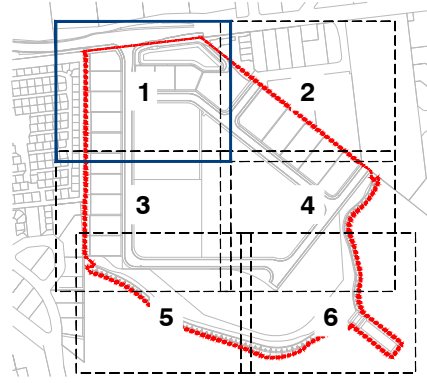
SCALE IN METRES

NOT APPLICABLE

Scale at A1: NOT APPLICABLE

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 030
Rev. No: B



KEY PLAN

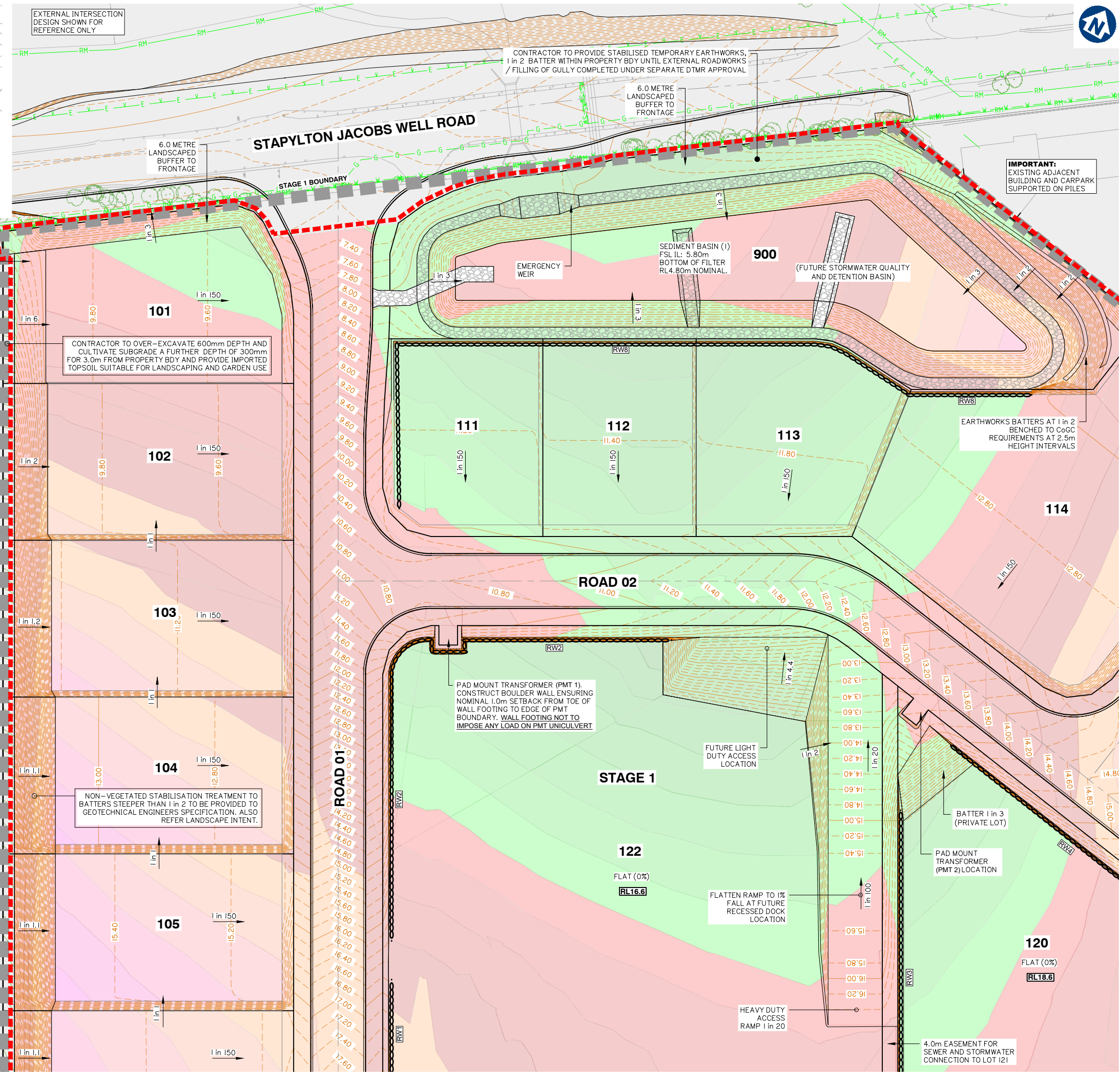
BULK EARTHWORKS DEPTH RANGE LEGEND

-50	to	-9 m	
-9	to	-8 m	
-8	to	-7 m	
-7	to	-6 m	
-6	to	-5 m	
-5	to	-4 m	
-4	to	-3 m	
-3	to	-2 m	
-2	to	-1 m	
-1	to	0 m	
0	to	1 m	
1	to	2 m	
2	to	3 m	
3	to	4 m	
4	to	5 m	
5	to	6 m	
6	to	7 m	
7	to	8 m	
8	to	9 m	
9	to	10 m	

BULK EARTHWORKS SUMMARY

CUT	432,048 m ³
FILL	430,254 m ³
TOTAL BALANCE	1,794 m ³
EXCESS OF CUT OVER FILL	1,794 m ³

- EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF BASIN FILTER MEDIA / DRAINAGE LAYERS (-1.0m FROM IL / FLOOR OF BASIN)
- EARTHWORKS VOLUMES ARE CALCULATED TO THE STRIPPED SURFACE (i.e. 0.100m OF TOPSOIL REMOVED OVER THE TOTAL FOOTPRINT OF EARTHWORKS EXTENT)
- EARTHWORKS VOLUMES ARE CALCULATED TO PAVEMENT SUBGRADE LEVEL ASSUMING -0.440m IN CUT AREAS AND -0.290m IN FILL AREAS.
- A 10% BULKING FACTOR HAS BEEN APPLIED TO THE ACCUMULATIVE EXCAVATION (CUT) VOLUME AT DEPTHS 5.0m OR GREATER. RETAINING WALLS DO NOT EXCEED 5.0m IN HEIGHT, AND ARE NOT BENCHED / TIERED



BULK EARTHWORK CUT & FILL LAYOUT PLAN SHEET 1 OF 6



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DRAWING TITLE
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
1 OF 6

SCALE IN METRES



1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed: IG

Drafted: JRG

Approved: MG

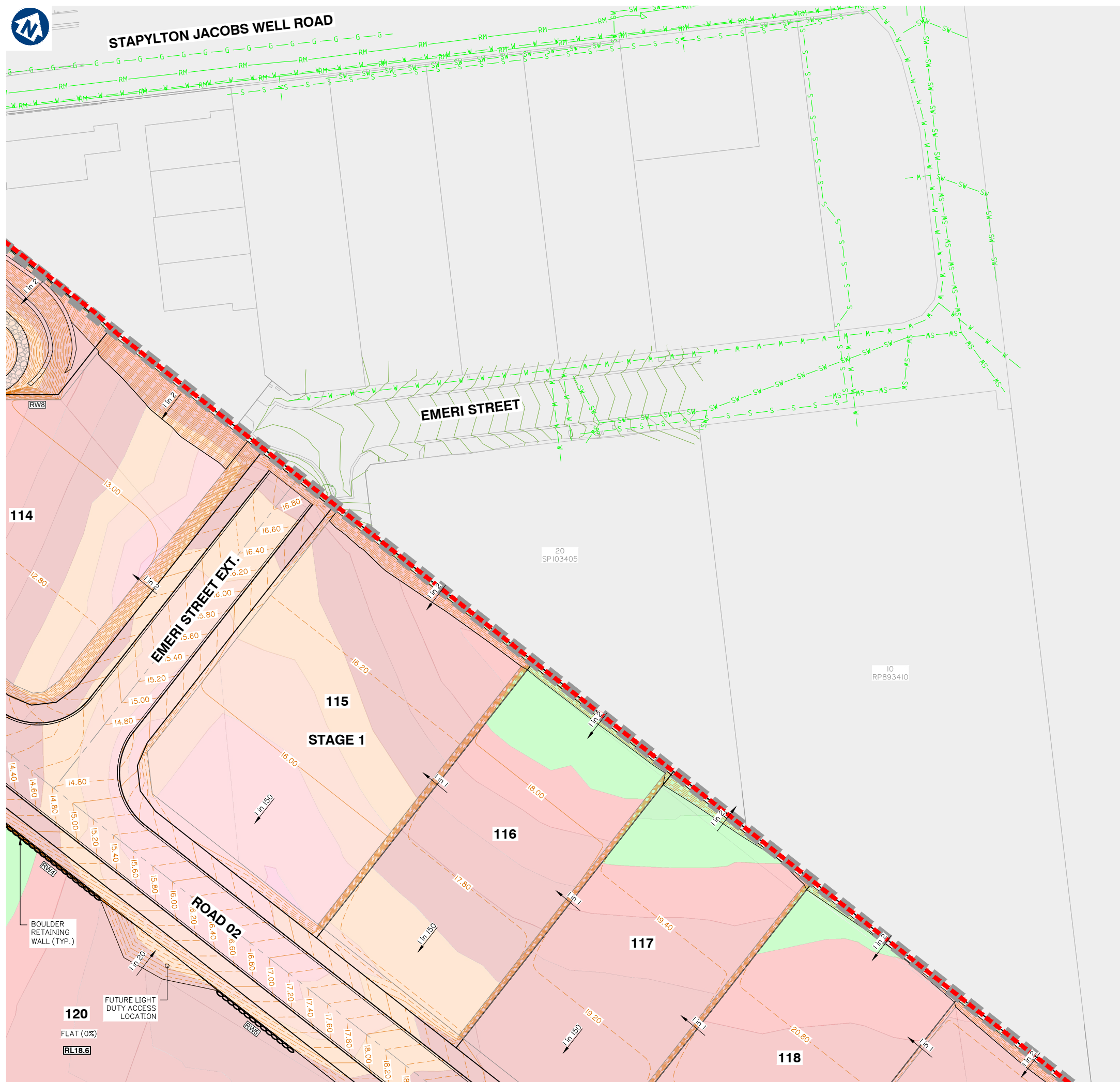
RPEQ: 16939

Signed:

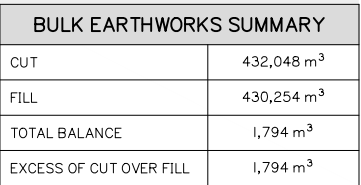
Date: 20-02-2020

Drawing No:
5941 ENG BE1 050

Rev. No:
B

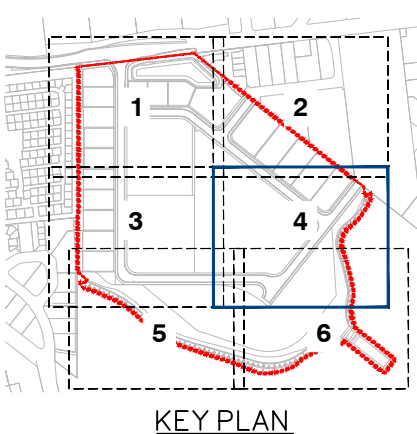






1. EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF BASIN FILTER MEDIA / DRAINAGE LAYERS (–1.0m FROM IL / FLOOR OF BASIN)
2. EARTHWORKS VOLUMES ARE CALCULATED TO THE STRIPPED SURFACE (i.e. 0.100m OF TOPSOIL REMOVED OVER THE TOTAL FOOTPRINT OF EARTHWORKS EXTENT)
3. EARTHWORKS VOLUMES ARE CALCULATED TO PAVEMENT SUBGRADE LEVEL ASSUMING –0.440m IN CUT AREAS AND –0.290m IN FILL AREAS.
4. A 10% BULKING FACTOR HAS BEEN APPLIED TO THE ACCUMULATIVE EXCAVATION (CUT) VOLUME AT DEPTHS 5.0m OR GREATER
5. RETAINING WALLS DO NOT EXCEED 5.0m IN HEIGHT, AND ARE NOT BENCHED / TIERED

BULK EARTHWORKS DEPTH RANGE LEGEND			
-50	to	-9 m	
-9	to	-8 m	
-8	to	-7 m	
-7	to	-6 m	
-6	to	-5 m	
-5	to	-4 m	
-4	to	-3 m	
-3	to	-2 m	
-2	to	-1 m	
-1	to	0 m	
0	to	1 m	
1	to	2 m	
2	to	3 m	
3	to	4 m	
4	to	5 m	
5	to	6 m	
6	to	7 m	
7	to	8 m	
8	to	9 m	
9	to	10 m	



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DRAWING TITLE

BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET

4 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE	JG	JG	MG
A	20-12-2019	ORIGINAL ISSUE	JRS	JRS	MJ
	Date	Description	DRN	DRN	CHK

SCALE IN METRES



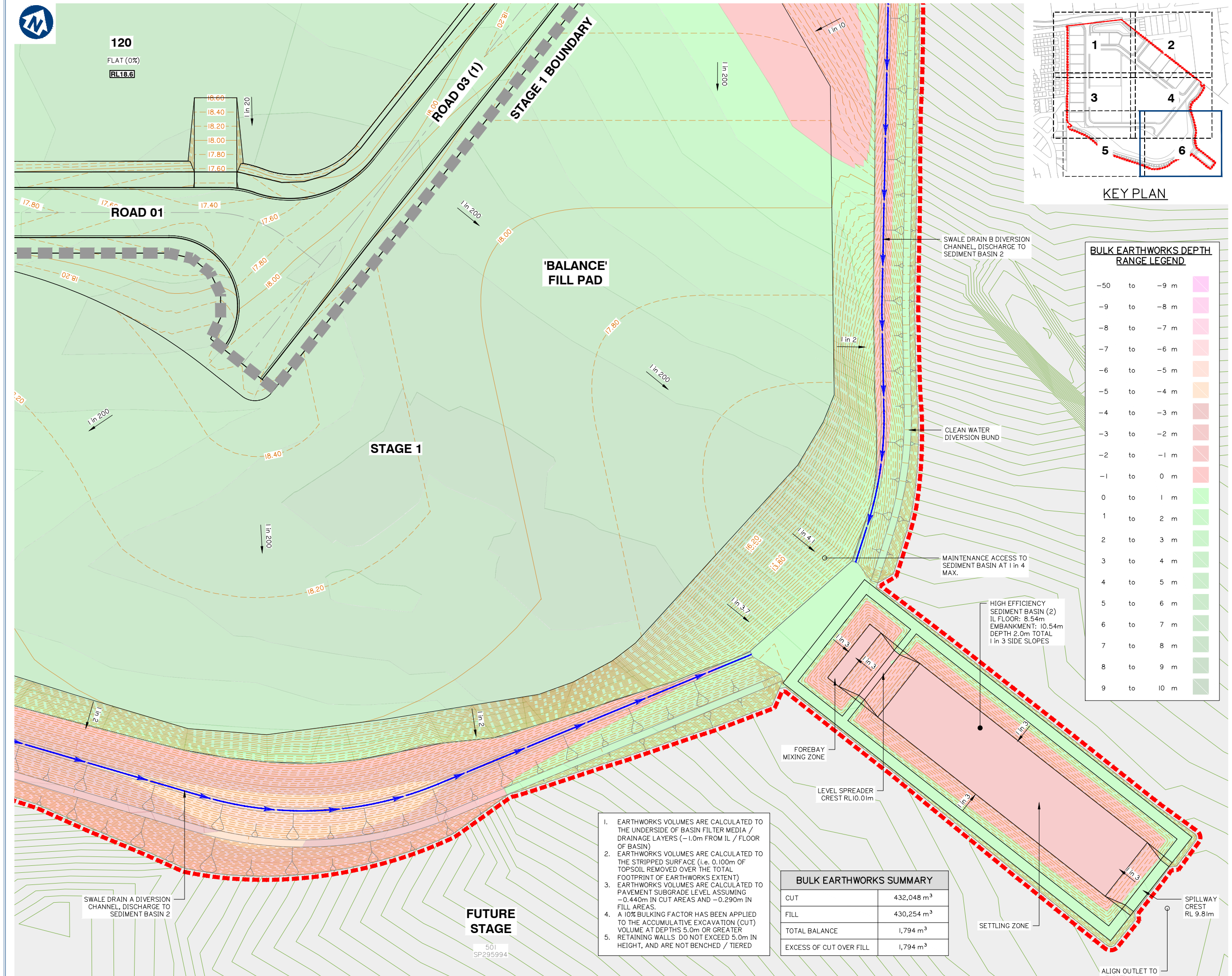
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1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 053	B





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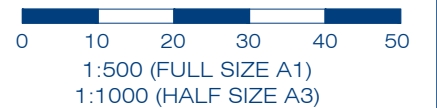
DRAWING TITLE

BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET

6 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

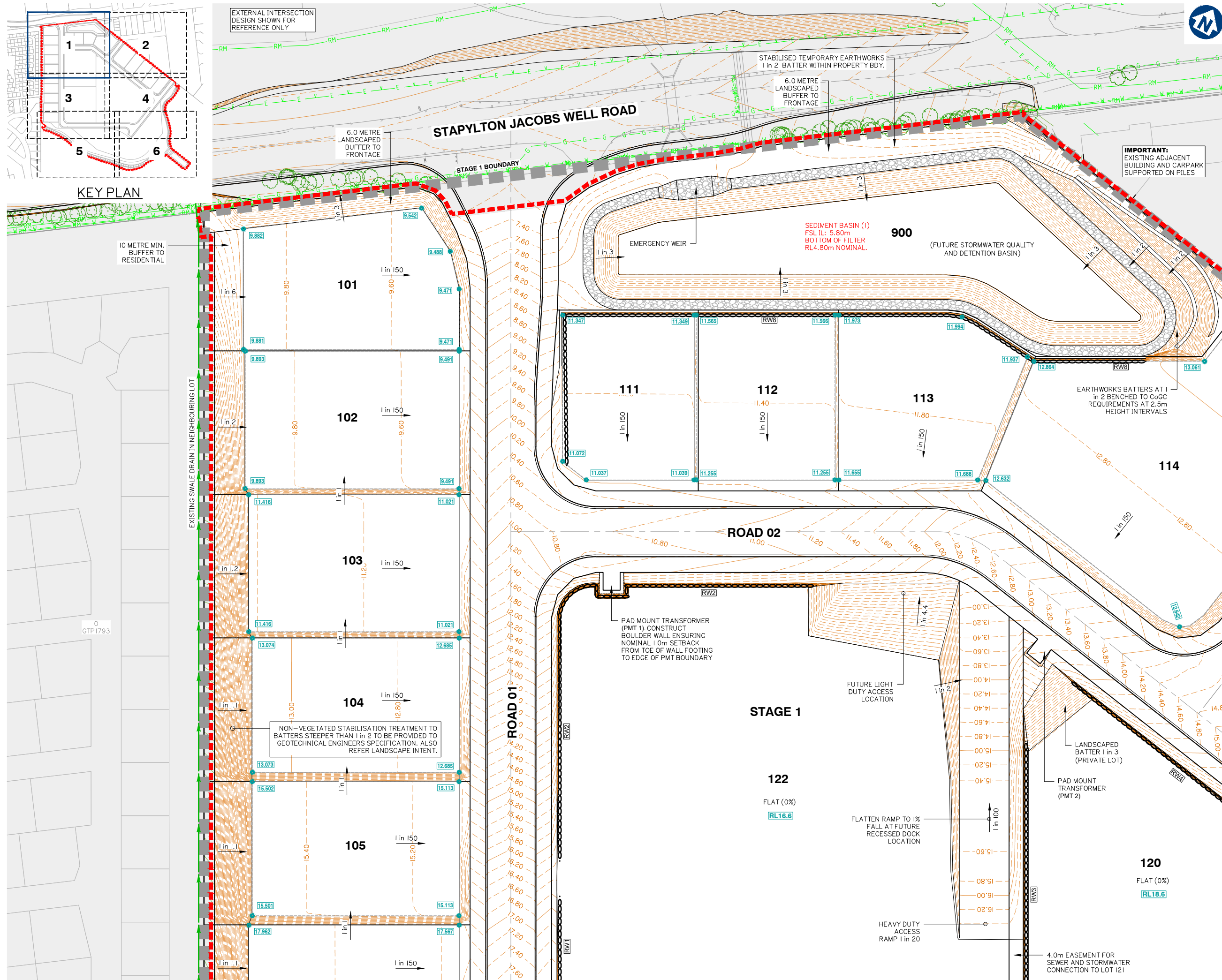
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
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Date:	20-02-2020

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DRAWING TITLE

FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 1 OF 6

Revisions		Information Request Response	
Rev	Date	Original Issue	Description
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG MG
A	20-12-2019	ORIGINAL ISSUE	JRG MG
Issue	Date	Description	DRN CHK

SCALE IN METRES



1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed: IG

Drafted: JRG

Approved: MG

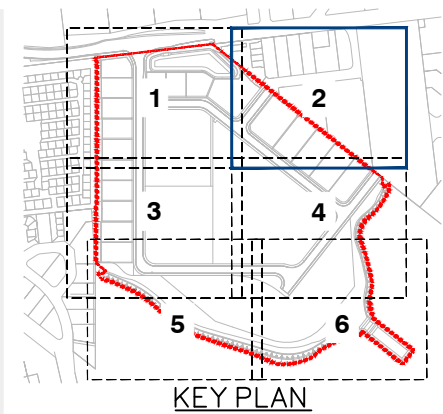
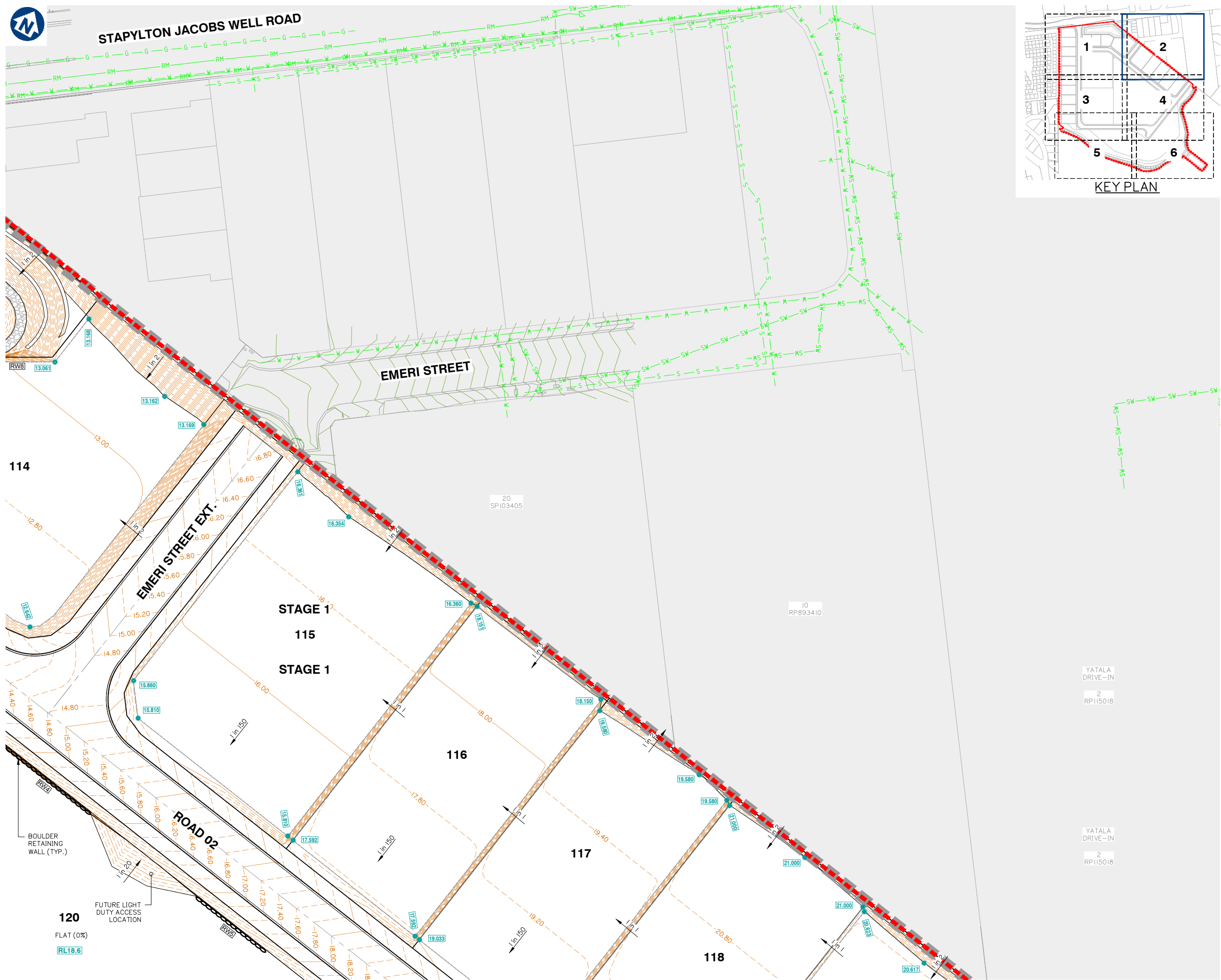
RPEQ: 16939

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DRAWING TITLE

FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 2 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE		IG	MG
A	20-12-2019	ORIGINAL ISSUE		JRG	MG
	Date	Description		DRN	CHK

SCALE IN METRES



1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 101

Rev. No:
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DRAWING TITLE

FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 3 OF 6

B	20-02-2020		INFORMATION REQUEST RESPONSE	IG	MC
A	20-12-2019		ORIGINAL ISSUE	JRG	MC
Issue	Date		Description	DRN	CH

SCALE IN METRES

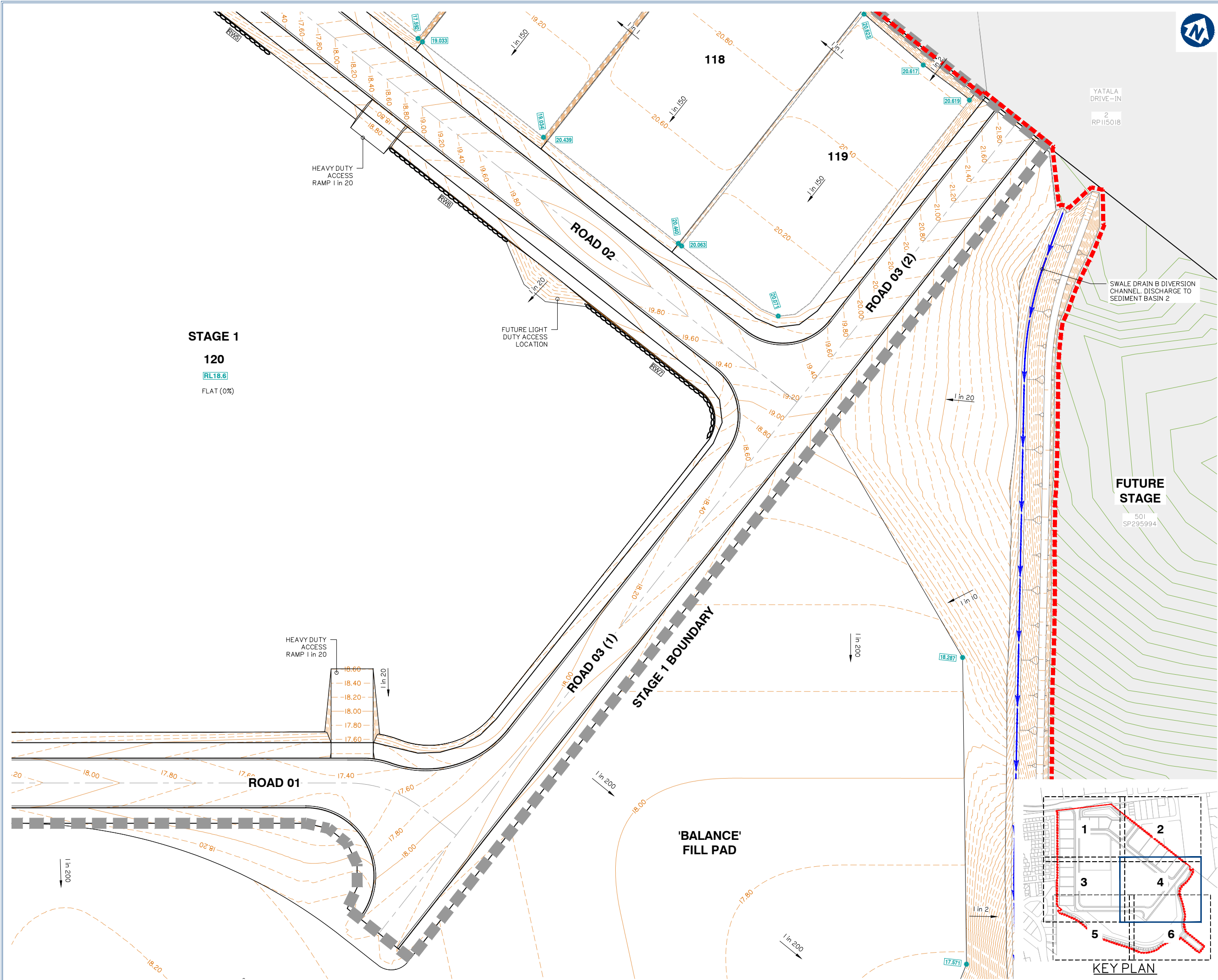


1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 102	B



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE
FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 4 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



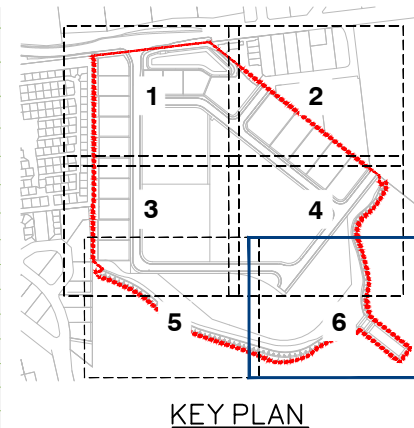
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 103

Rev. No:
B



Client:



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:	
Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
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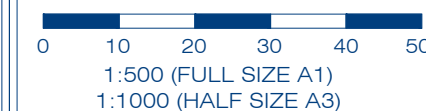
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DRAWING TITLE

FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 6 OF 6

[illegible]

SCALE IN METRES

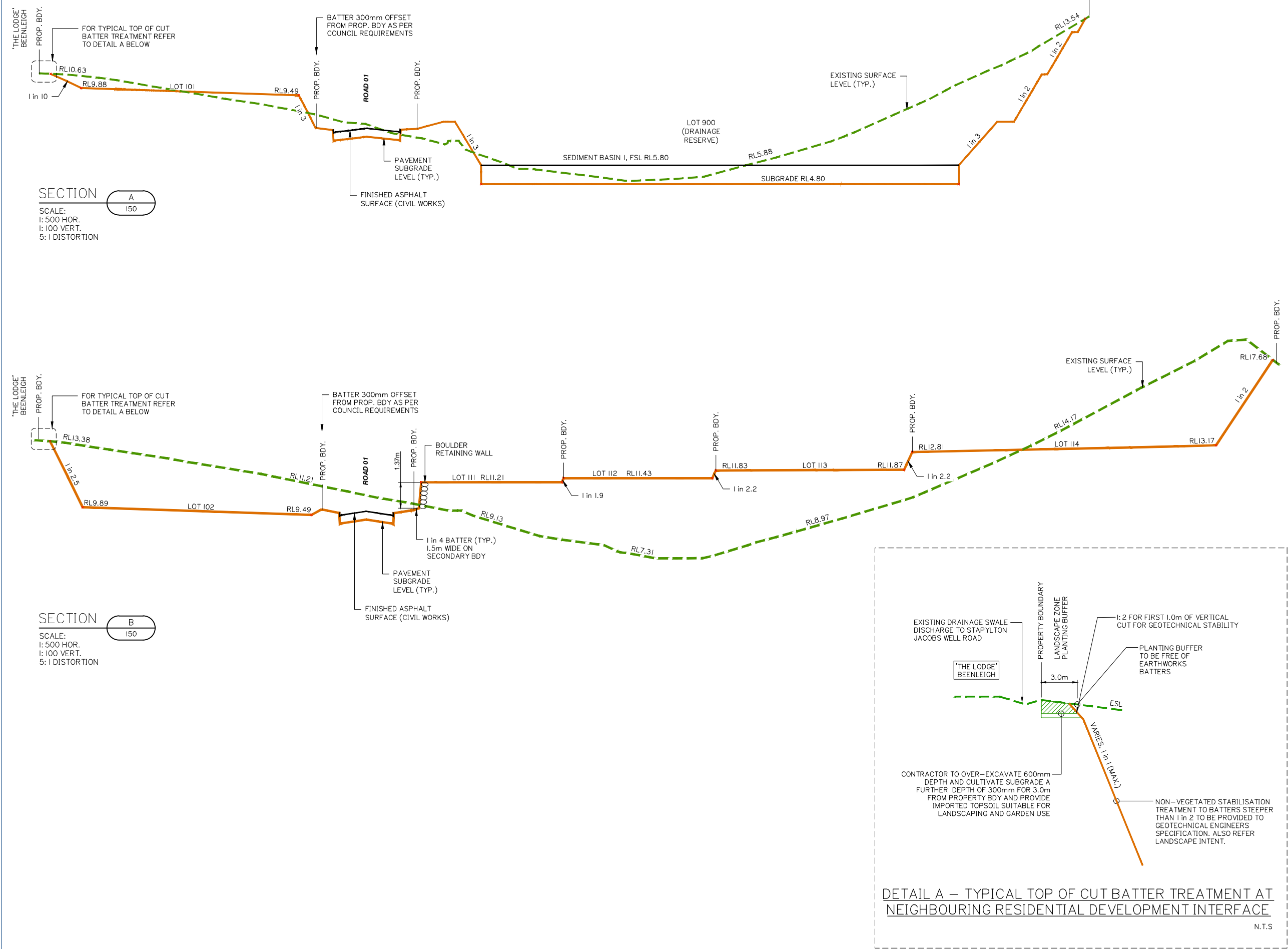


Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 105	B





Client:



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
2 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 151 Rev. No: B



FINISHED EARTHWORKS CROSS SECTIONS SHEET 3 OF 11

Client:

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PROPERTY**

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(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
3 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Lue	Date	Description	DRN	CH-K

SCALE IN METRES

HOZ: Scale 1:500 - Lengths are in Metres.



A horizontal scale bar with a black bar and white tick marks. The numbers 0, 5, 10, 15, 20, 25, 30, 35, and 40 are written below the bar.

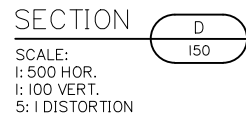
VERT: Scale 1:100 - Lengths are in Metres.



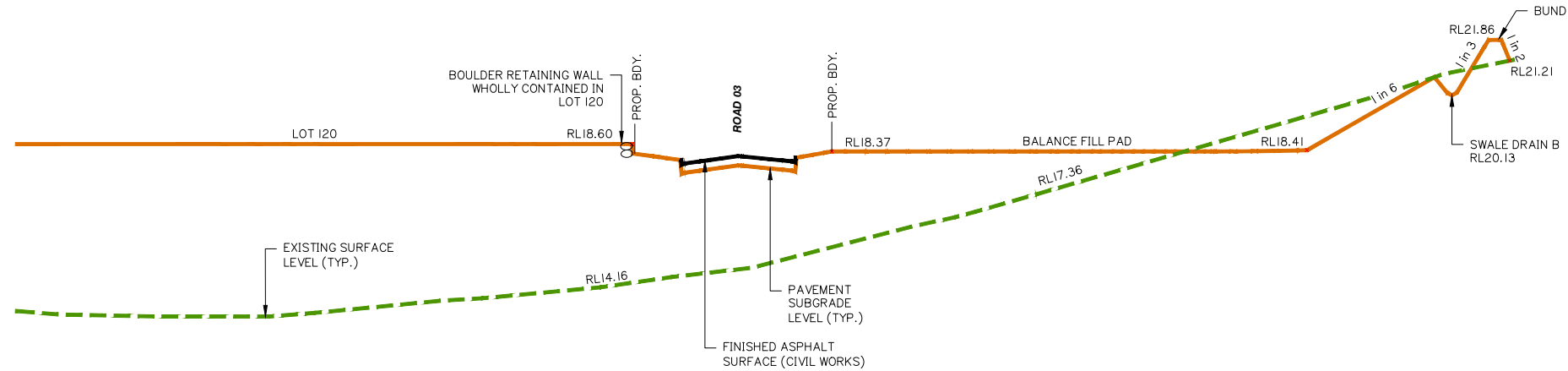
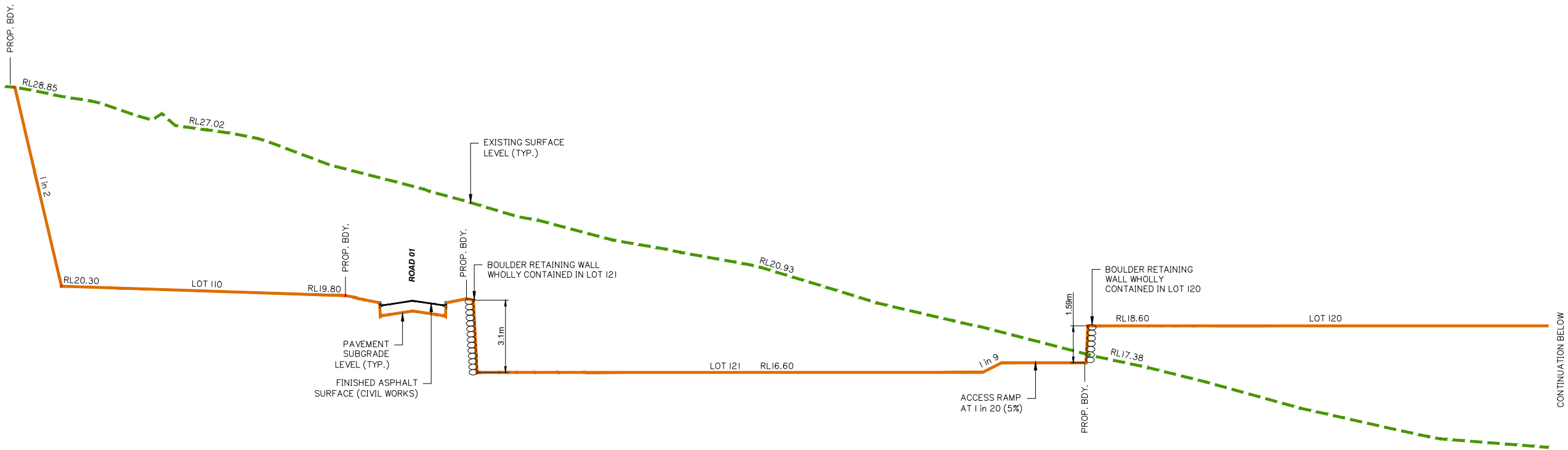
A vertical scale bar with a black bar and white tick marks. The numbers 0, 1, 2, 3, 4, 5, 6, 7, and 8 are written to the left of the bar.

Scale at A1:	AS SHOWN
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 152	B



Drawing No:	Rev. No:
5941 ENG BE1 153	B



SECTION E
SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION

Client:



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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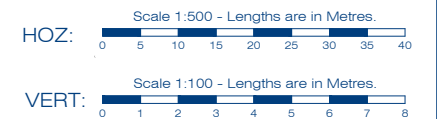
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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
5 OF 11

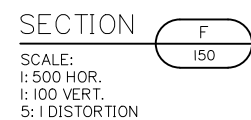
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

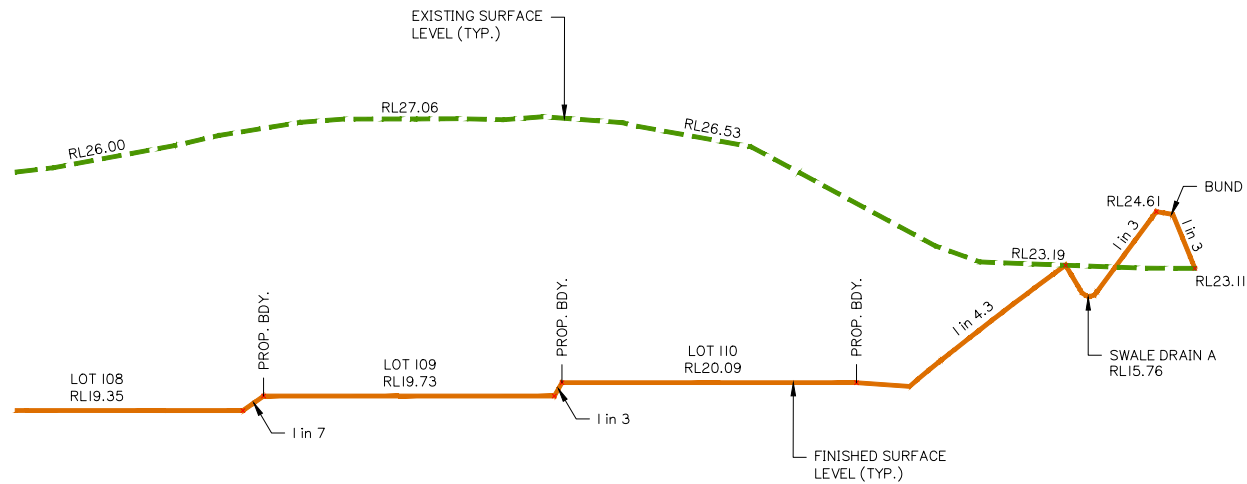
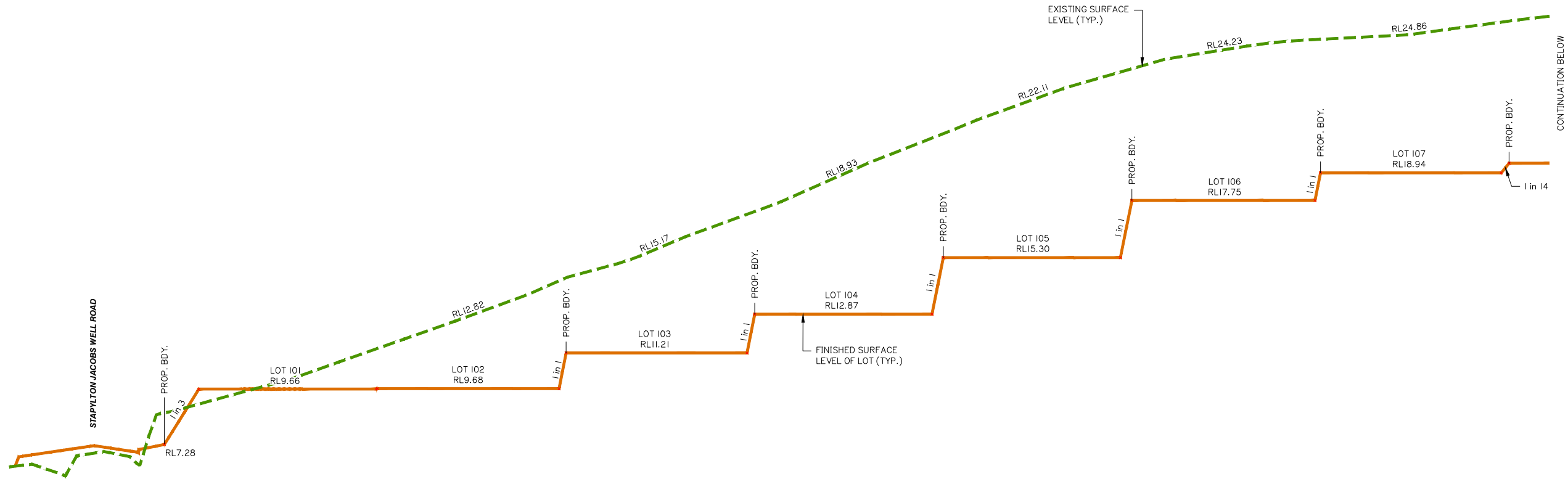
SCALE IN METRES



Scale at A1:	AS SHOWN
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 154
Rev. No: B





SECTION G
SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION



planning | environment | landscape | engineering | survey
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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FINISHED EARTHWORKS
CROSS SECTIONS SHEET
7 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

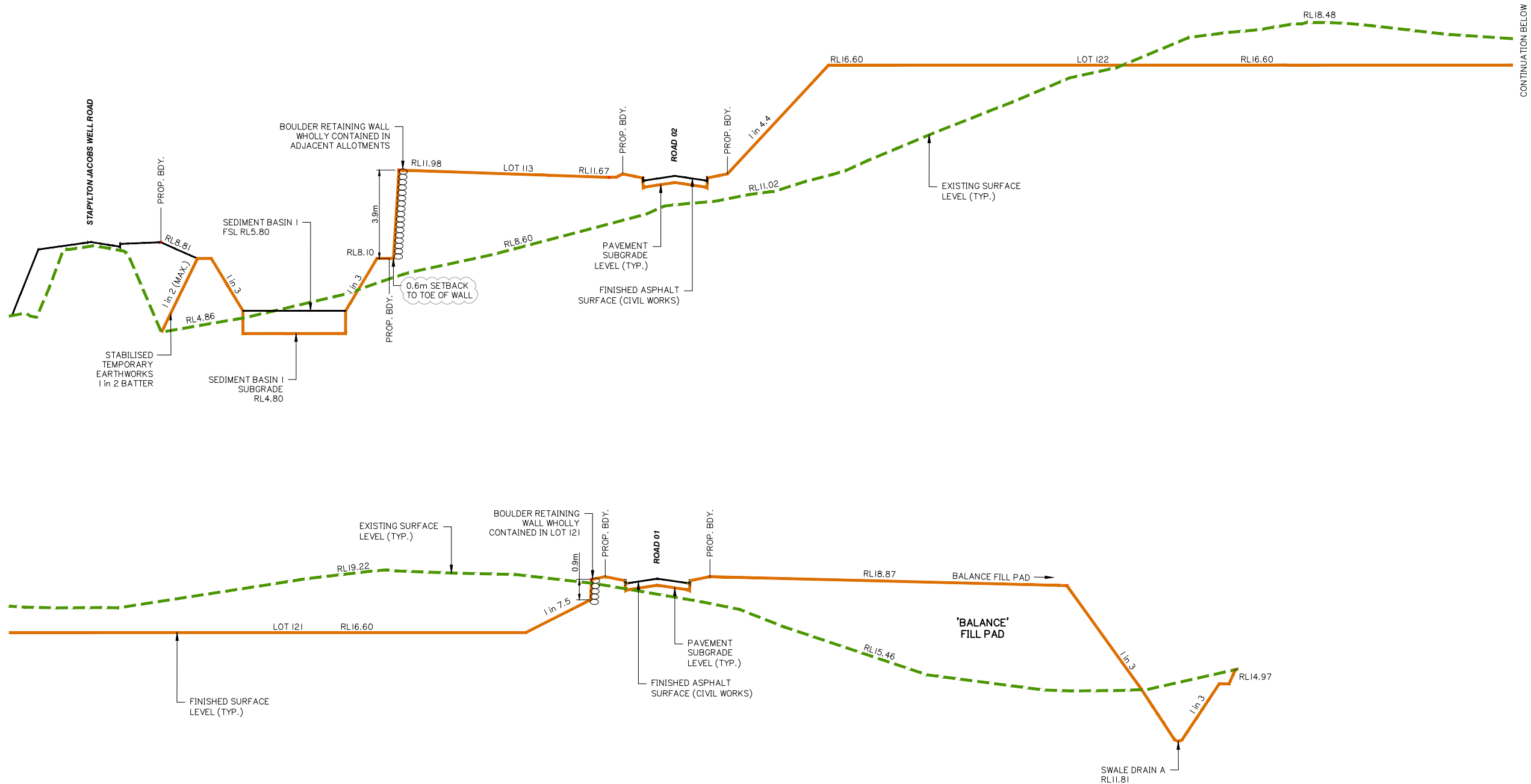
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 156 Rev. No: B



SECTION H
SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION

Client:



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(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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ROAD & 31 YELLOWWOOD
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RPD:

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Contour interval: -
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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
8 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

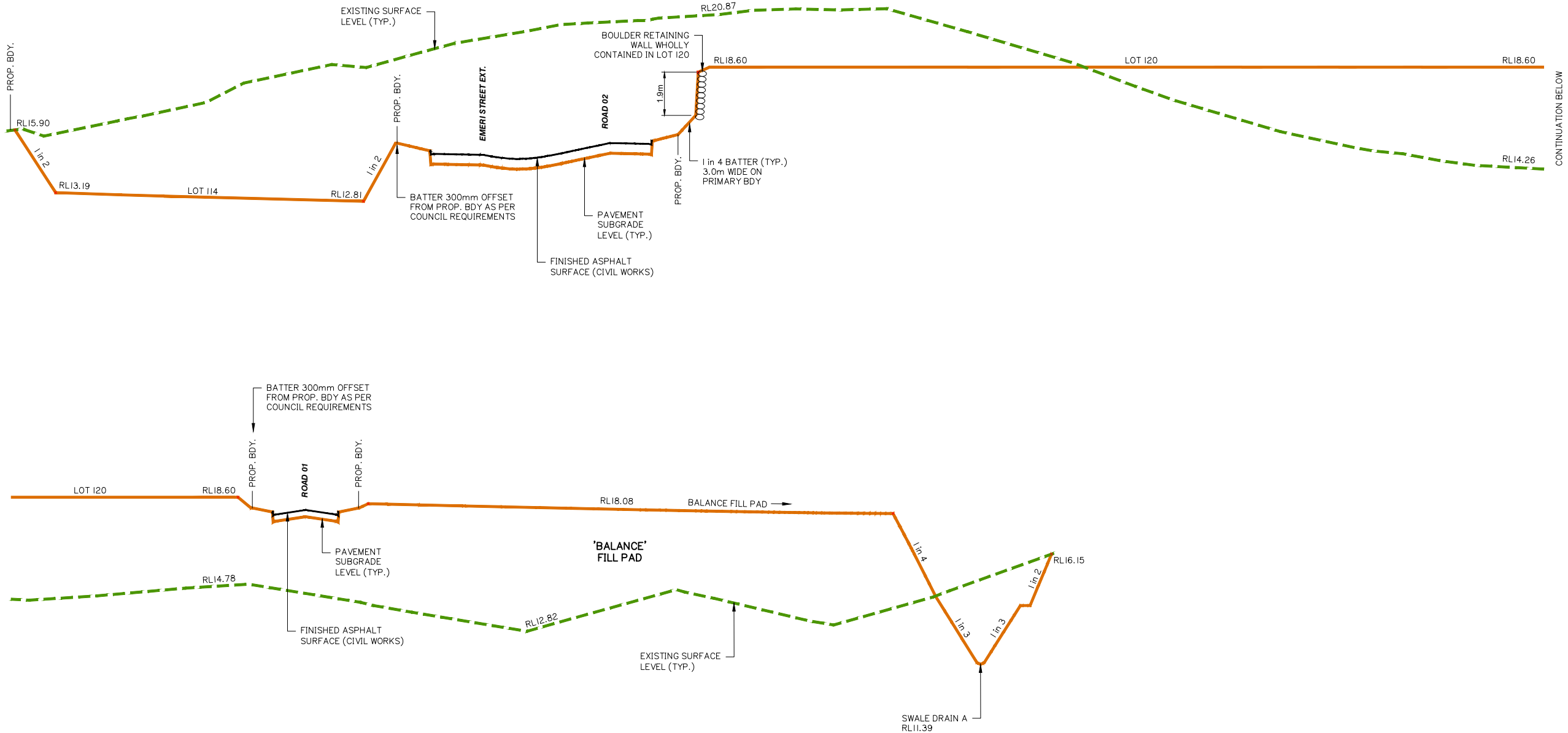
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 157 Rev. No: B



SECTION 1
SCALE:
1: 500 HOR.
1: 100 VERT.
5: 1 DISTORTION

Client:



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
9 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

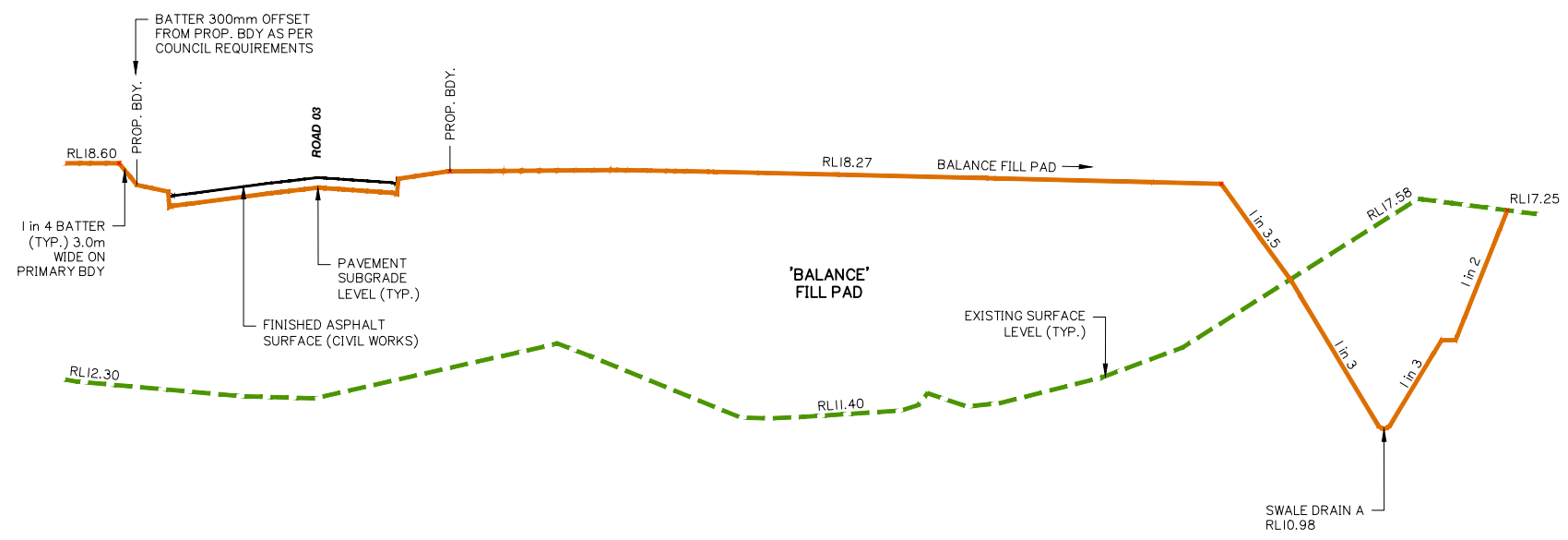
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

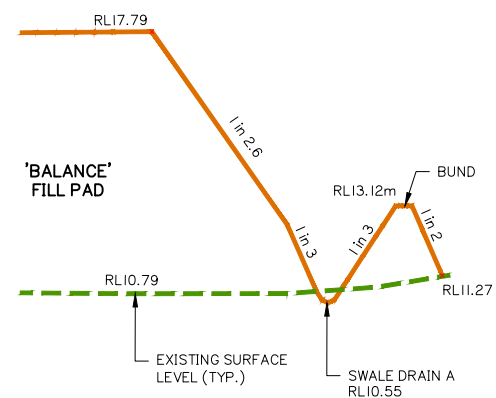
Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 158 Rev. No: B



FINISHED EARTHWORKS CROSS SECTIONS SHEET 10 OF 11



FINISHED EARTHWORKS CROSS SECTIONS SHEET 11 OF 11

Drawing No:	Rev. No:
5941 ENG BE1 160	B

ONLY THE BULK EARTHWORKS IS APPLICABLE.
A SEPARATE APPLICATION WILL BE SUBMITTED
FOR THE CIVIL ROADWORKS ASSOCIATED WITH
THE RECONFIGURATION OF LOTS.



Client:



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:	
Lot:	501, 4
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Local Authority:	CITY OF GOLD COAST COUNCIL
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Meridian:	-
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DRAWING TITLE

BULK EARTHWORKS ROAD TYPICAL SECTIONS

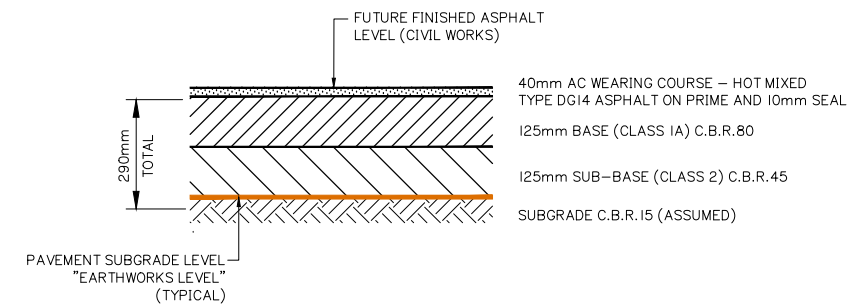
B	20-02-2020	INFORMATION REQUEST RESPONSE		IG	MG
A	20-12-2019	ORIGINAL ISSUE		JRG	MG
Issue	Date	Description		DRN	CHK

NOT APPLICABLE

Scale at A1:	NOT APPLICABLE
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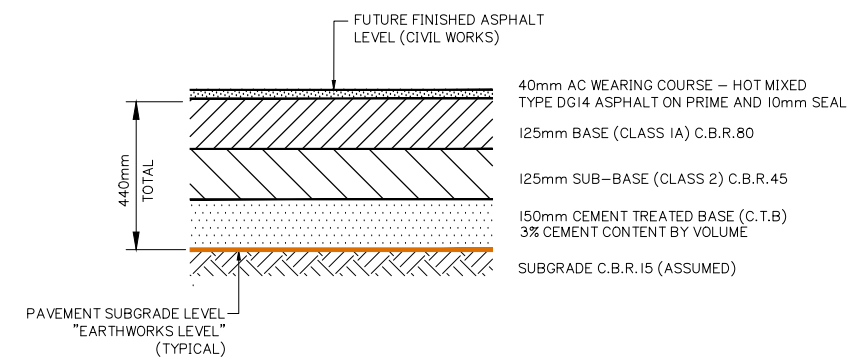
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 161	B



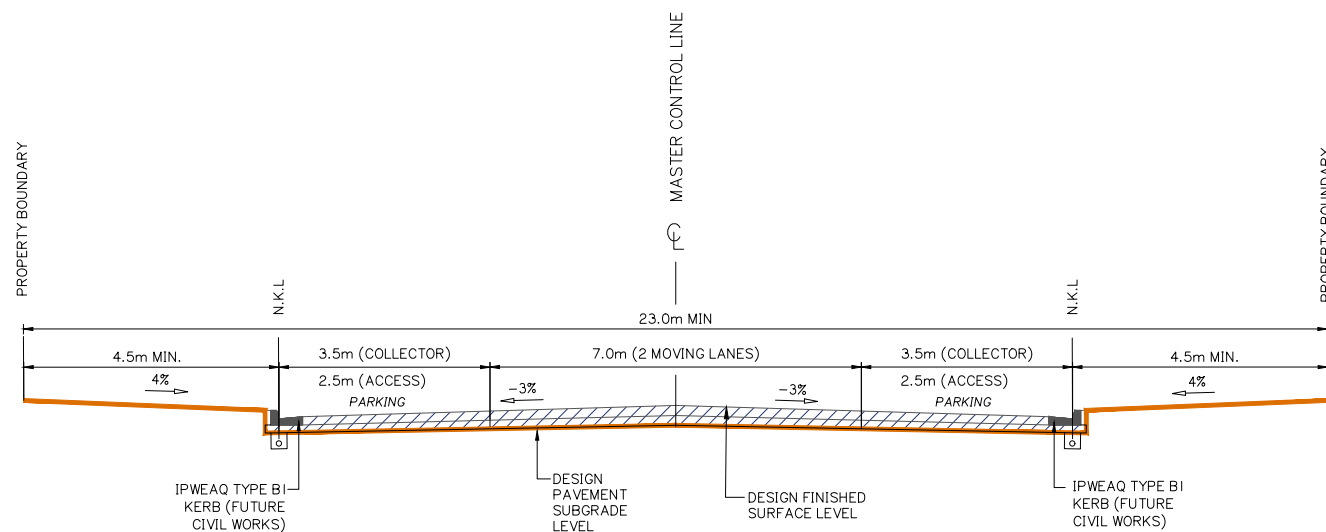
NOMINAL ROAD PAVEMENT DETAIL – IN FILL AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET

PAVEMENT DESIGN SUBJECT TO IN-SITU CBR TESTING AND
FURTHER COUNCIL APPROVAL.
N.T.S



NOMINAL ROAD PAVEMENT DETAIL – IN CUT AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET

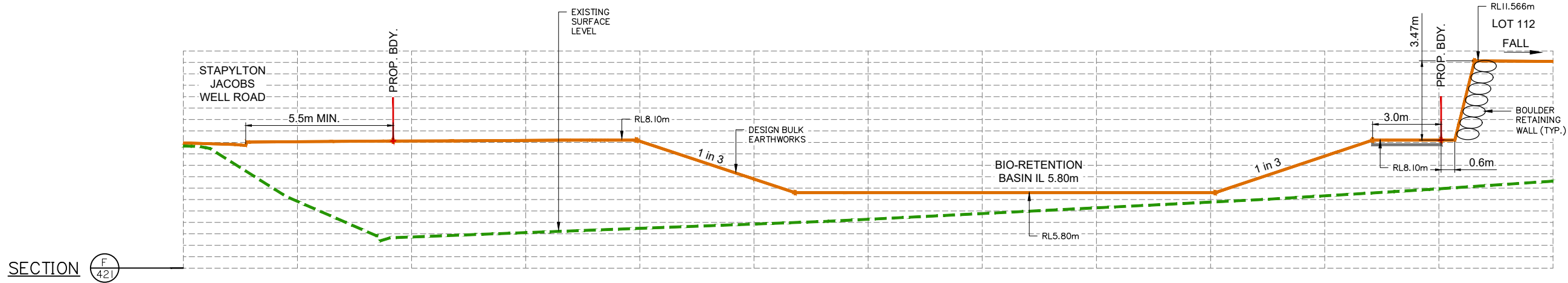
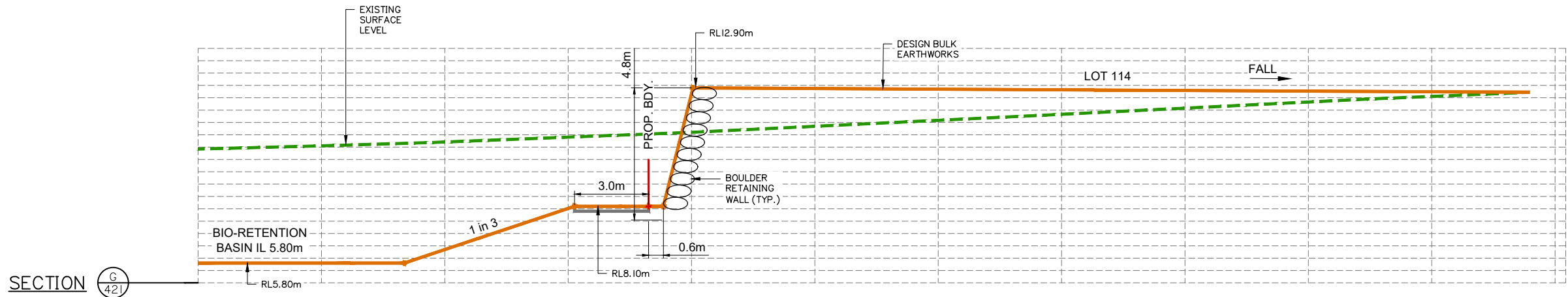
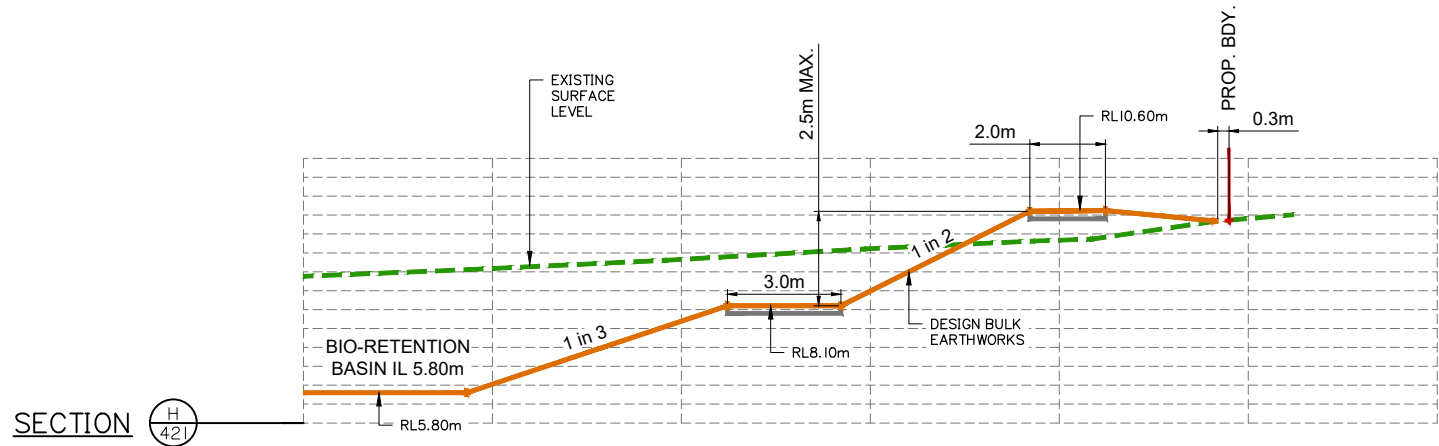
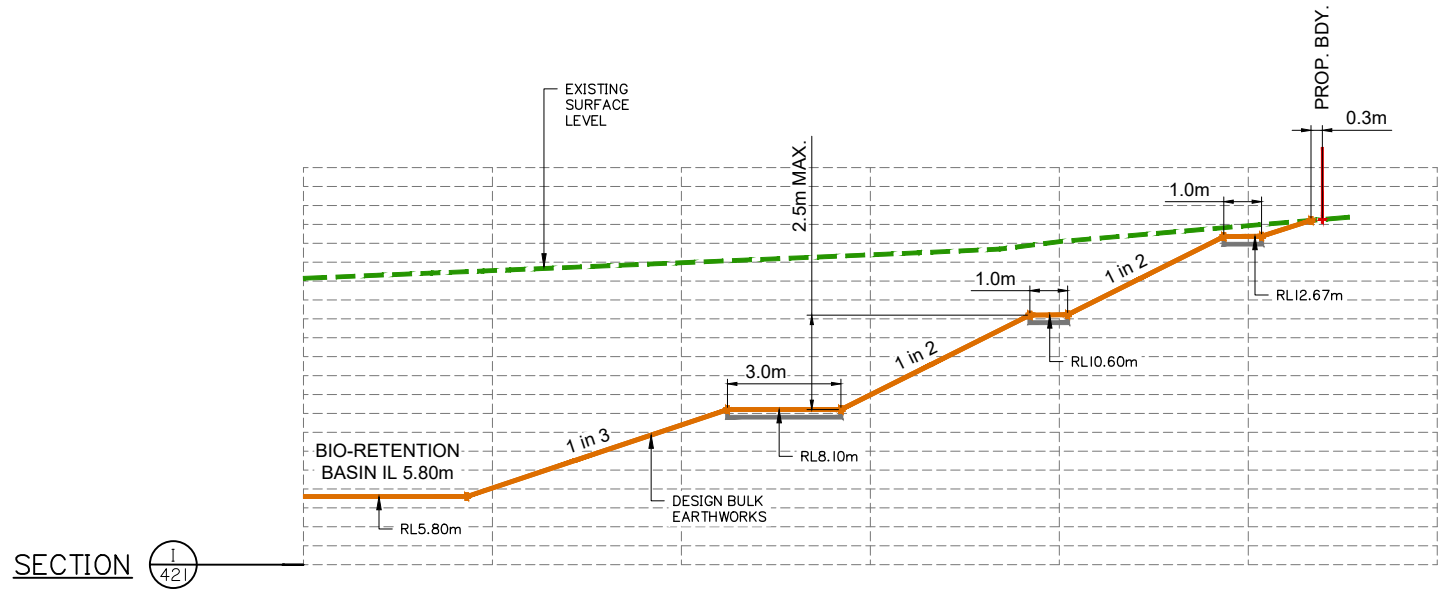
PAVEMENT DESIGN SUBJECT TO IN-SITU CBR TESTING AND
FURTHER COUNCIL APPROVAL.
N.T.S



TYPICAL CROSS SECTION – INDUSTRIAL / COMMERCIAL
COLLECTOR AND ACCESS STREETS (23.0m)

ROAD 01, ROAD 02, ROAD 03, EMERI STREET EXT.

REFER ALSO GCCC STD DWG 05-02-2004 FOR DETAILS



BULK EARTHWORKS DETAILED SECTIONS SHEET 2 OF 2

Client:



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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Level Datum: AHD
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PSM: -
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DRAWING TITLE
BULK EARTHWORKS
DETAILED SECTIONS
SHEET 2 OF 2

Issue	Date	Original Issue	Description	IG	MG
A	20-02-2020	ORIGINAL ISSUE		IG	MG

SCALE IN METRES



1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

Scale at A1: 1:100

Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 163
Rev. No: A

[illegible]

Client:



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Project: M38 INDUSTRIAL
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RPD:

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Contour Interval: -
PSM: -
RI: -

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DRAWING TITLE

CONTROL LINE LAYOUT PLAN SHEET 1 OF 2

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MO
A		ORIGINAL ISSUE	JRG	MO
Issue	Date	Description	DRN	CH

SCALE IN METRES



1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1: 1:1000

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 400

Rev. No:
B



clients



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
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THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
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DRAWING TITLE

CONTROL LINE LAYOUT PLAN SHEET 2 OF 2

A					
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	G-HK	

SCALE IN METRES



1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1: 1:1000

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 401	B

CONTROL LINE SETOUT TABLE – ROAD 03 (2)					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	2703.560	6940.779	19.160	9º13'15.46"
	10.000	2705.162	6950.650	19.442	9º13'15.46"
	20.000	2706.765	6960.521	19.724	9º13'15.46"
	30.000	2708.367	6970.392	20.006	9º13'15.46"
	40.000	2709.970	6980.262	20.288	9º13'15.46"
	50.000	2711.572	6990.133	20.571	9º13'15.46"
	60.000	2713.175	7000.004	20.853	9º13'15.46"
	70.000	2714.777	7009.875	21.135	9º13'15.46"
	80.000	2716.379	7019.746	21.417	9º13'15.46"
	90.000	2717.982	7029.616	21.699	9º13'15.46"
	100.000	2719.584	7039.487	21.981	9º13'15.46"
IP 2	101.500	2719.825	7040.968	22.024	9º13'15.46"

CONTROL LINE SETOUT TABLE – EMERI STREET EXT.								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD./SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2437.631	6983.950	14.818	9º13'15.46"			
	10.000	2439.234	6993.821	14.633	9º13'15.46"			
	20.000	2440.836	7003.692	14.775	9º13'15.46"			
	30.000	2442.438	7013.562	15.062	9º13'15.46"			
	40.000	2444.041	7023.433	15.349	9º13'15.46"			
	50.000	2445.643	7033.304	15.636	9º13'15.46"			
	60.000	2447.246	7043.175	15.923	9º13'15.46"			
	70.000	2448.848	7053.046	16.210	9º13'15.46"			
	80.000	2450.451	7062.916	16.498	9º13'15.46"			
	90.000	2452.053	7072.787	16.780	9º13'15.46"			
	100.000	2453.655	7082.658	16.954	9º13'15.46"			
TC	105.599	2454.553	7088.184	16.987	9º13'15.46"			
	110.000	2455.636	7092.444	16.980	19º18'29.06"			
IP 2	114.904	2456.117	7097.818	16.938		R = 25.000	18.611	42º39'09.42"
	120.000	2460.717	7100.980	16.861	42º13'34.99"			
IP 3	124.209	2463.794	7103.844	16.931	51º52'24.88"			



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PARK YATALA

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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:	
Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour interval:	-
PSM:	-
RL:	-

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DRAWING TITLE
ROAD CONTROL LINE
SETOUT TABLES SHEET
3 OF 3

B	20-02-2020	INFORMATION REQUEST RESPONSE		IG	MG
A	20-12-2019	ORIGINAL ISSUE		JRG	MG
Issue	Date	Description		DRN	CHK

SCALE IN METRES

NOT APPLICABLE

Scale at A1:		NOT APPLICABLE
Designed:	IG	
Drafted:	JRG	
Approved:	MG	
RPEQ:	16939	
Signed:		
Date:	20-02-2020	
Drawing No:		Rev. No:
5941 ENG BE1 404		B

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Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

ROAD 01 LONGITUDINAL
SECTION SHEET 3 OF 3

B	20-02-2020		INFORMATION REQUEST RESPONSE	JG	MG
A	20-12-2019		ORIGINAL ISSUE	JPG	MJG
Issue#	Date		Description	DRN	CHK

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

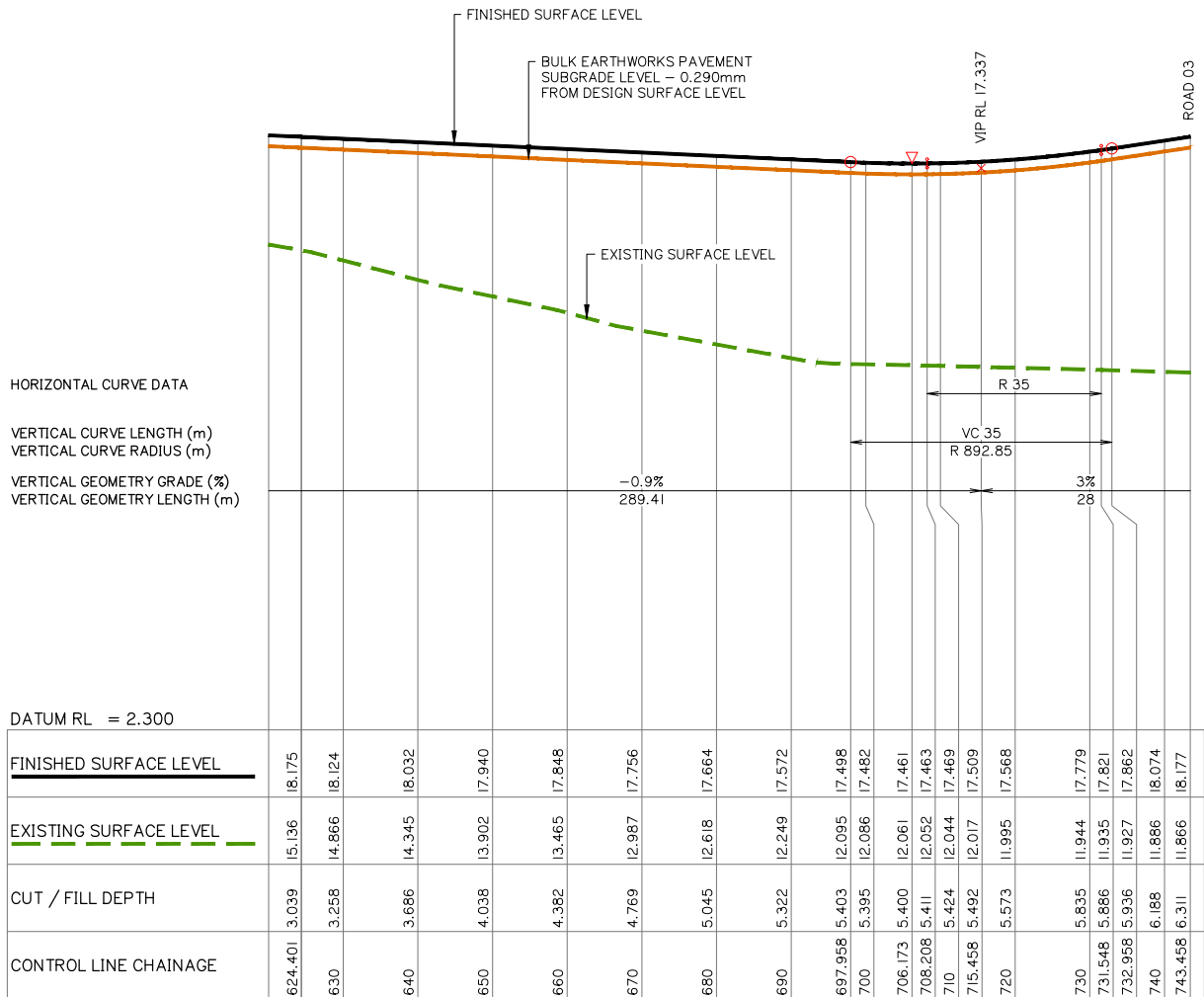
Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 412	B



ROAD 01 LONGITUDINAL SECTION SHEET 3 OF 3

AI HORZ SCALE I: 500
AI VERT SCALE I: 100

Client:



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PARK YATALA

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RPD:

Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE

ROAD 02 LONGITUDINAL
SECTION SHEET 2 OF 2

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

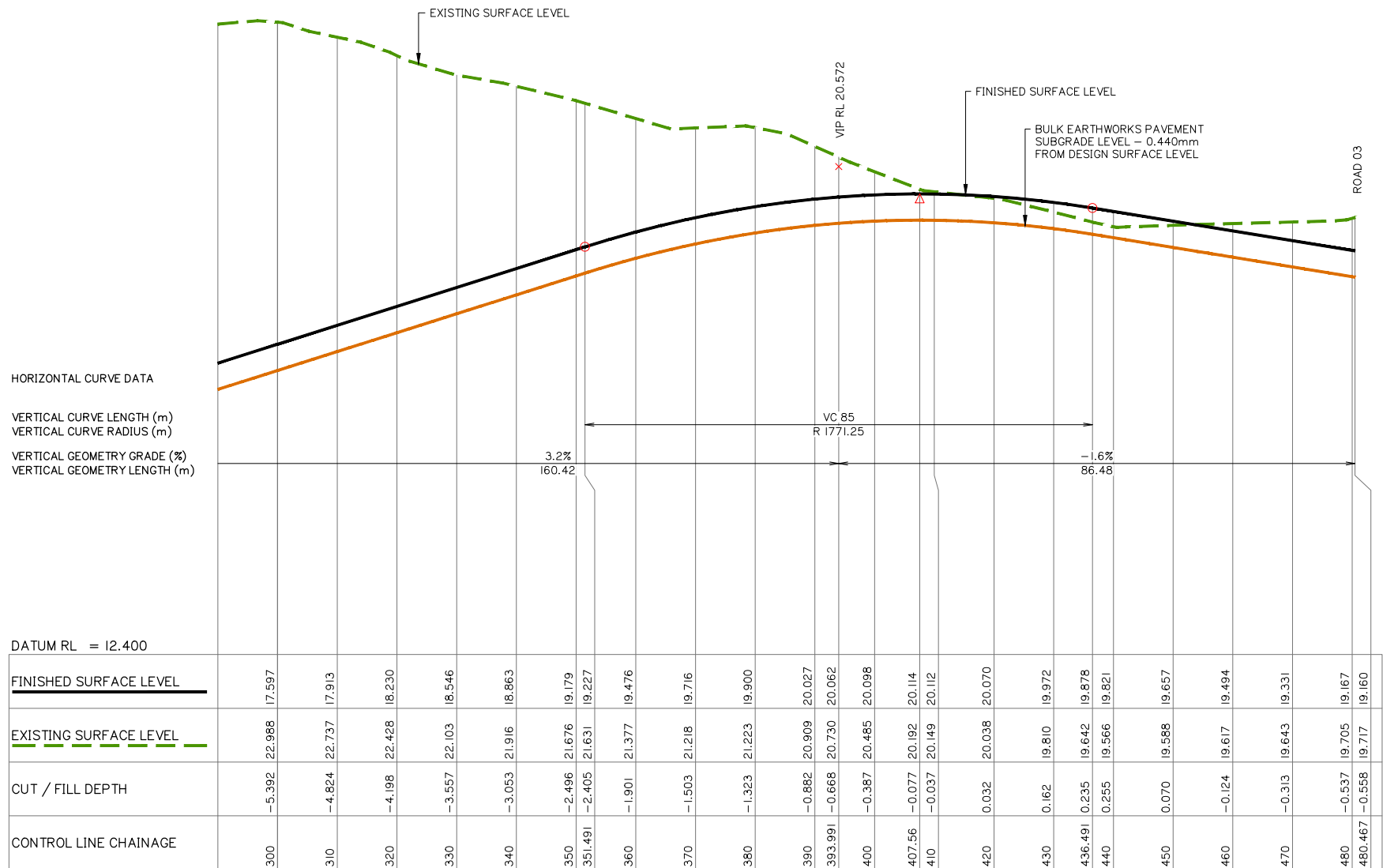
Scale 1:50 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 414	B



ROAD 02 LONGITUDINAL SECTION SHEET 2 OF 2

AI HORZ SCALE I: 500
AI VERT SCALE I: 50



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RPD:

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Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
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DRAWING TITLE

ROAD 03 (1) LONGITUDINAL SECTION

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	M
A	20-12-2019	ORIGINAL ISSUE	JRG	M
Issue	Date	Description	DRN	CH

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

Scale 1:50 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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RPEQ:	1693
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Signed:	
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Date:	20-02-2020
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Drawing No:	Rev. No:
5941 ENG BE1 415	B



AI HORZ SCALE 1: 500
AI VERT SCALE 1: 50



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DRAWING TITLE

ROAD 03 (2) LONGITUDINAL SECTION

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	M
A	20-12-2019	ORIGINAL ISSUE	JRG	M
Issue	Date	Description	DRN	CH

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

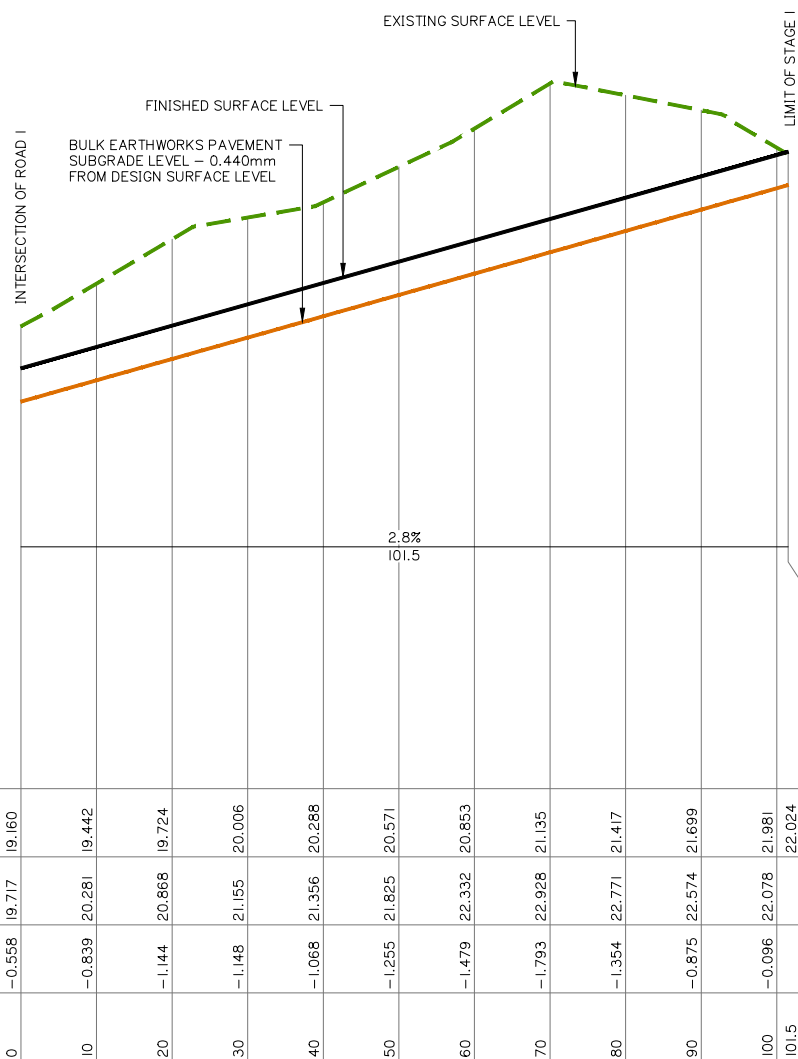
Scale 1:50 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 416	B



ROAD 03 (2) LONGITUDINAL SECTION

AI HORZ SCALE 1: 500
AI VERT SCALE 1: 50



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Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE

EMERI STREET EXT.
LONGITUDINAL SECTION

B	20-02-2020	INFORMATION REQUEST RESPONSE		IG	MG
A	20-12-2019	ORIGINAL ISSUE		JRG	MG
	Date	Description		DRN	CHK

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

Scale 1:50 - Lengths are in Metres.

VERT:

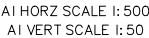
Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 417	B



AI HORZ SCALE 1: 500
AI VERT SCALE 1: 50





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RPD:

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Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
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DRAWING TITLE
SWALE DRAIN A
LONGITUDINAL SECTION
SHEET 2 OF 2

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MC
A	20-12-2019	ORIGINAL ISSUE	JRG	MC
Issue	Date	Description	DRN	CH

Scale 1:500 - Lengths are in Metres.

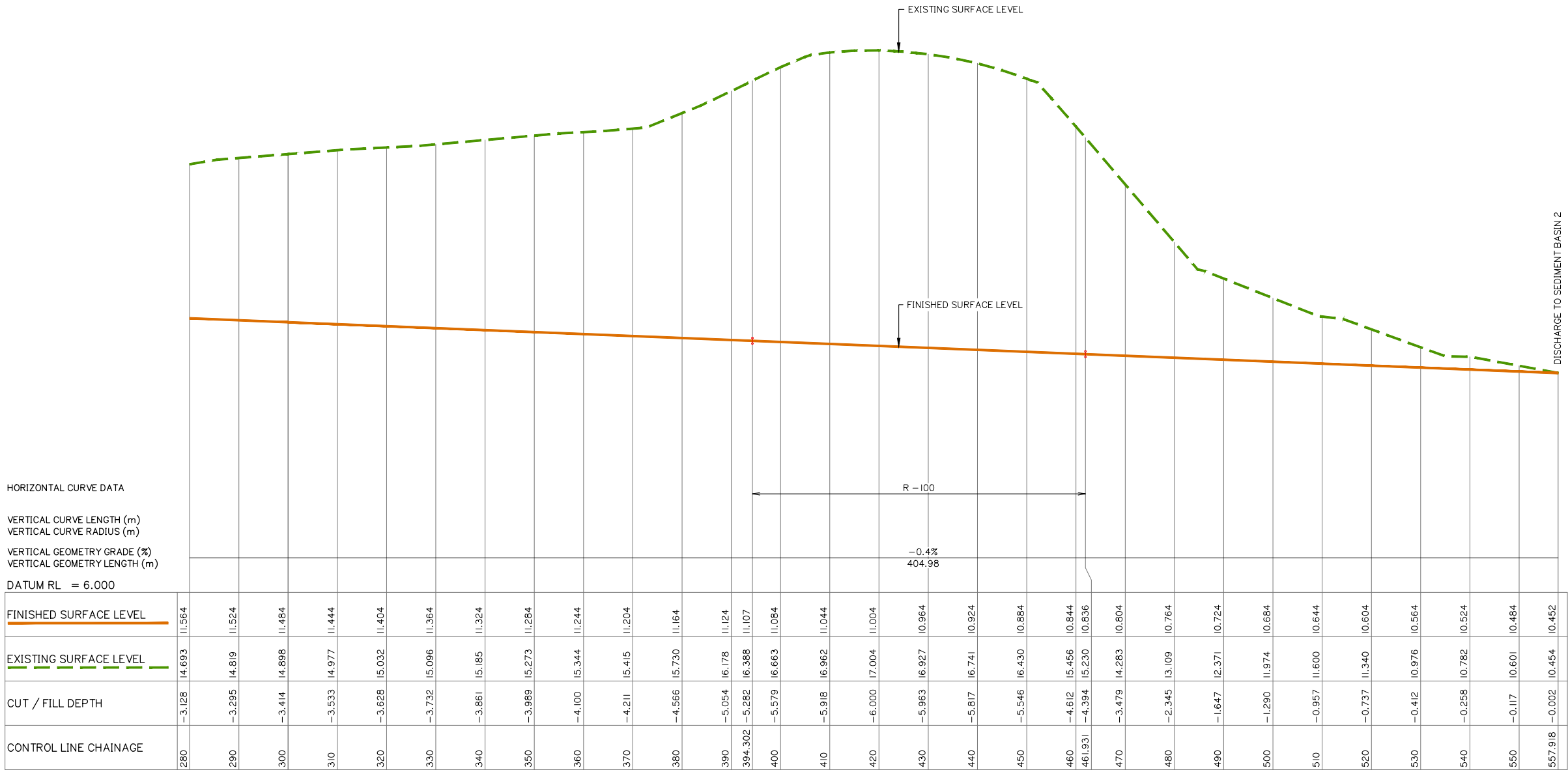
HOZ:

VERT:

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 419	B



SWALE DRAIN A LONGITUDINAL SECTION SHEET 2 OF 2

AI HORZ SCALE 1: 500
AI VERT SCALE 1: 50

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

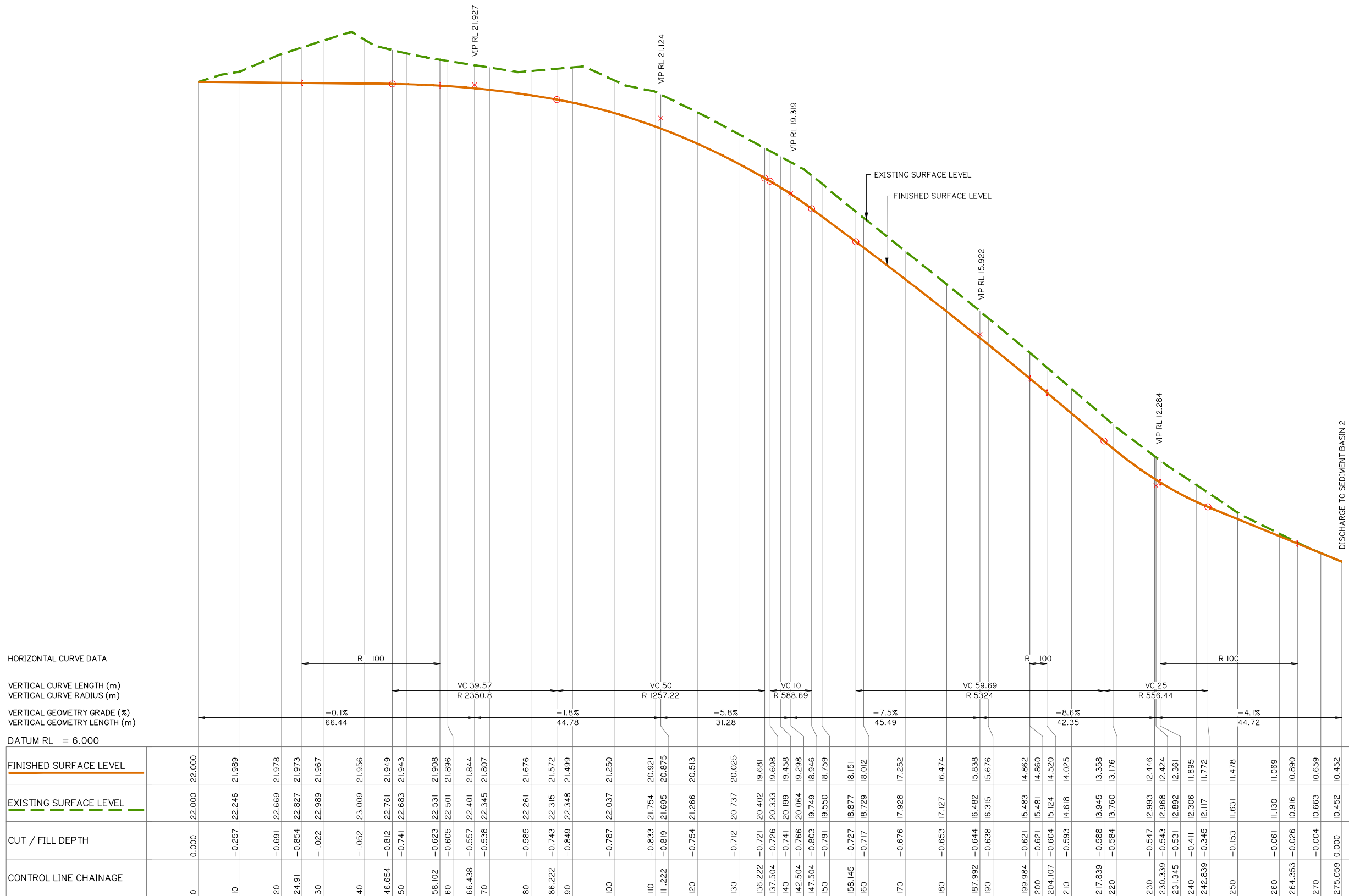
0 5 10 15 20 25 30 35 40

Scale 1:50 - Lengths are in Metres.

0 0.5 1 1.5 2 2.5 3 3.5 4

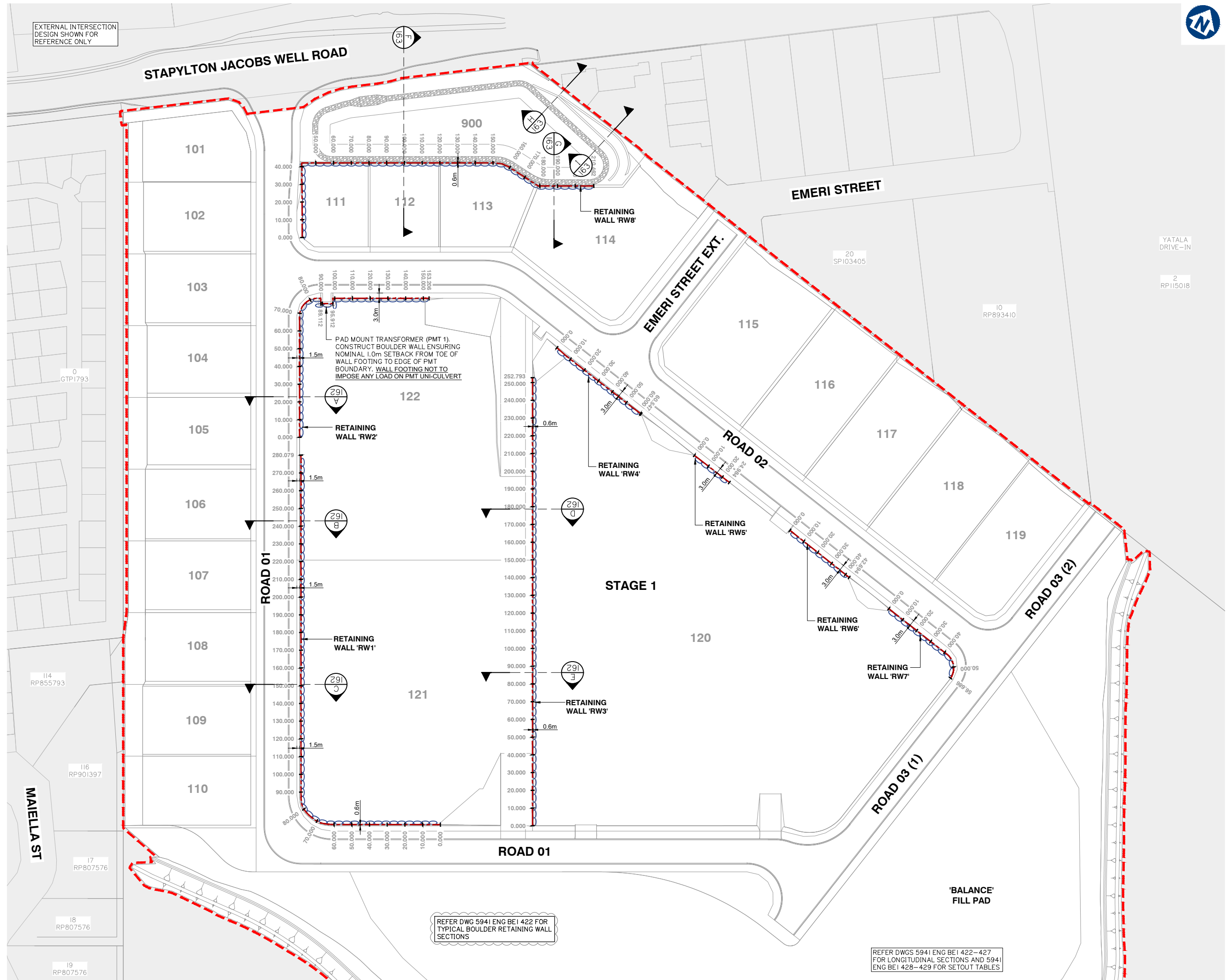
Scale at A1:	AS SHOWN
Designed:	IG
Drafted:	JRG
Approved:	MG
PEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: Rev. N
041 ENG BE1 420 B



SWALE DRAIN B LONGITUDINAL SECTION

AI HORZ SCALE 1: 500
AI VERT SCALE 1: 50



EXTERNAL INTERSECTION
DESIGN SHOWN FOR
REFERENCE ONLY



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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DRAWING TITLE
BOULDER RETAINING
WALL CONTROL LINE
LAYOUT PLAN

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1: 1:1000

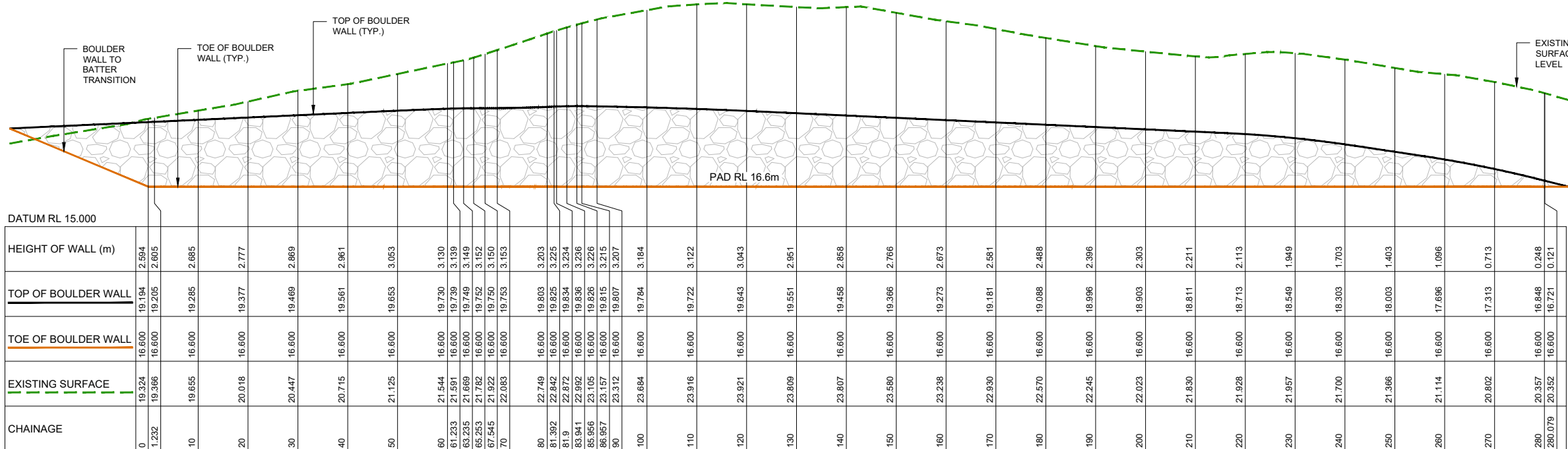
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 422

Rev. No:
B

REFER DWG 5941 ENG BE1 422 FOR
TYPICAL BOULDER RETAINING WALL
SECTIONS

REFER DWGS 5941 ENG BE1 422-427
FOR LONGITUDINAL SECTIONS AND 5941
ENG BE1 428-429 FOR SETOUT TABLES



A1 HORZ SCALE 1:500
A1 VERT SCALE 1:100

MAXIMUM HEIGHT OF WALL: 3.236 m

Drawing No:	Rev. No:
5941 ENG BE1 422	B



Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

RPD:
 lot: 501, 4
 Plan: SP295994, RP6843
 Local Authority: CITY OF GOLD COAST
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 Level Datum: AHD
 Meridian: -
 Contour Interval: -
 DSM: -
 L: -

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DRAWING TITLE
BOULDER RETAINING
WALL LONGITUDINAL
SECTION SHEET 2 OF 6

SCALE IN METRES

HOR. 1:250 (FULL SIZE A1)
VER. 1:50 (FULL SIZE A1)

Designed:	IG
Drafted:	JRG
Approved:	MG
PEQ:	16939
Signed:	
Date:	20-02-2020

The diagram illustrates a gravity retaining wall cross-section. The wall is represented by a vertical dashed line on the left. The soil behind the wall is shown as a stippled area. Reinforcement is provided by a series of boulders, represented by irregular polygons, arranged in a staggered pattern. The boulders are placed such that they interlock and provide resistance against soil movement. Labels with leader lines point to specific features:

- NOMINAL FACE OF WALL
- NOMINAL BACK FACE OF WALL
- RETAINED SOIL
- PROVIDE ADDITIONAL BOULDER TO REINFORCE CORNER

A cross-sectional diagram of a gravity retaining wall. The wall is represented by a vertical line on the left. The area to the right of the wall is labeled 'RETAINED SOIL' and is filled with a stippled pattern. Several large, irregularly shaped boulders are shown embedded in the soil. One boulder is specifically labeled 'PROVIDE ADDITIONAL BOULDER TO REINFORCE CORNER'. The wall's top surface is labeled 'NOMINAL FACE OF WALL' and its bottom surface is labeled 'NOMINAL BACK FACE OF WALL'. Dashed lines indicate the wall's profile and the soil's surface.

The diagram illustrates a cross-section of a road embankment. The existing surface level is shown as a dashed green line. The top of the boulder wall is marked as 'TOP OF BOULDER WALL (TYP.)'. The toe of the boulder wall is marked as 'TOE OF BOULDER WALL (TYP.)'. A proposed additional wall for a pad mount transformer is shown as a solid orange line. The wall is required to be constructed ensuring a nominal 1.0m setback from the toe of the wall footing to the edge of the PMT boundary. The wall footing is not to impose any load on the PMT uncultvert. The diagram also shows a boulder wall to the batter transition. The ground level is marked as 'PAD RL 16.6m'.

Stationing	Existing Surface Level (m)	Top of Boulder Wall (m)	Toe of Boulder Wall (m)	Additional Wall Required (m)	Pad Mount Transformer (PMT 1) (m)	Ground Level (m)
0	19.749	16.593	16.000	0.007		
10	18.930	16.023	16.600	0.578		
20	18.170	15.463	16.600	1.137		
30	17.372	14.863	16.600	1.737		
40	16.514	14.263	16.600	2.337		
50	15.727	13.663	16.600	2.937		
60	14.935	13.063	16.600	3.537		
68.931	14.250	12.534	16.600	4.066		
70	14.175	12.460	16.600	4.140		
80	13.415	11.653	16.600	4.948		
85.107	13.401	11.606	16.600	4.994		
86.113	13.402	10.893	16.600	5.707		
89.112	13.605	10.923	16.600	5.677		
90	13.606	10.932	16.600	5.668		
95.912	13.322	10.991	16.600	5.609		
98.911	13.117	10.951	16.600	5.650		
100	13.061	11.665	16.600	4.936		
110	12.543	11.735	16.600	4.866		
120	12.032	11.805	16.600	4.795		
130	11.530	11.875	16.600	4.725		
130.105	11.525	11.876	16.600	4.725		
134.105	11.325	11.904	16.600	4.696		
137.105	11.174	11.921	16.600	4.679		
140	11.029	11.946	16.600	4.654		
144.105	10.582	11.988	16.600	4.612		
147.105	10.207	12.029	16.600	4.572		
149.105	9.956	12.055	16.600	4.545		
150	9.844	12.066	16.600	4.534		
150.987	9.721	12.077	16.600	4.523		
153.206	9.616	12.110	15.631	3.521		

MAXIMUM HEIGHT OF WALL: 5.707 m

HORIZONTAL GEOMETRY - SETOUT TABLE - RETAINING WALL 'RW1'							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2474.937	6707.281	242°04'53.81"			
IP 2	1.232	2473.848	6706.704				
	10.000	2466.170	6702.471	241°07'59.89"			
	20.000	2457.412	6697.643	241°07'59.89"			
	30.000	2448.655	6692.816	241°07'59.89"			
	40.000	2439.897	6687.988	241°07'59.89"			
	50.000	2431.140	6683.160	241°07'59.89"			
	60.000	2422.382	6678.332	241°07'59.89"			
IP 3	61.233	2421.303	6677.737				
IP 4	63.235	2419.503	6676.859				
IP 5	65.253	2417.625	6676.121				
IP 6	67.545	2415.427	6675.469				
	70.000	2412.977	6675.352	270°21'59.31"			
IP 7	74.469	2408.318	6674.743		R = 22.696	13.847	34°57'19.79"
	80.000	2403.311	6677.581	295°36'39.67"			
IP 8	81.392	2402.075	6678.221				
IP 9	81.900	2401.726	6678.590				
IP 10	83.941	2400.400	6680.142				
IP 11	85.956	2399.218	6681.774				
IP 12	86.957	2398.698	6682.629				
	90.000	2397.223	6685.290	331°00'06.04"			
	100.000	2392.375	6694.037	331°00'06.04"			
	110.000	2387.527	6702.783	331°00'06.04"			
	120.000	2382.679	6711.529	331°00'06.04"			
	130.000	2377.831	6720.276	331°00'06.04"			
	140.000	2372.983	6729.022	331°00'06.04"			
	150.000	2368.136	6737.768	331°00'06.04"			
	160.000	2363.288	6746.515	331°00'06.04"			
	170.000	2358.440	6755.261	331°00'06.04"			
	180.000	2353.592	6764.007	331°00'06.04"			
	190.000	2348.744	6772.754	331°00'06.04"			
	200.000	2343.896	6781.500	331°00'06.04"			
	210.000	2339.049	6790.246	331°00'06.04"			
	220.000	2334.201	6798.993	331°00'06.04"			
	230.000	2329.353	6807.739	331°00'06.04"			
	240.000	2324.505	6816.485	331°00'06.04"			
	250.000	2319.657	6825.232	331°00'06.04"			
	260.000	2314.809	6833.978	331°00'06.04"			
	270.000	2309.962	6842.725	331°00'06.04"			
	280.000	2305.114	6851.471	331°00'06.04"			
IP 13	280.079	2305.076	6851.540	331°00'06.04"			

HORIZONTAL GEOMETRY - SETOUT TABLE - RETAINING WALL 'RW2'							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2299.530	6859.899	331°00'44.50"			
	10.000	2294.683	6868.646	331°00'44.50"			
	20.000	2289.837	6877.394	331°00'44.50"			
	30.000	2284.991	6886.141	331°00'44.50"			
	40.000	2280.145	6894.888	331°00'44.50"			
	50.000	2275.299	6903.635	331°00'44.50"			
	60.000	2270.452	6912.383	331°00'44.50"			
IP 2	68.931	2266.124	6920.195				
	70.000	2265.720	6921.184	340°46'58.55"			
IP 3	77.019	2261.713	6929.561		R = 10.203	16.176	90°50'23.33"
	80.000	2267.200	6930.674	36°56'26.63"			
IP 4	85.107	2271.143	6933.835				
IP 5	86.113	2272.023	6934.323				
IP 6	89.112	2273.476	6931.699				
	90.000	2274.253	6932.129	61°00'47.00"			
IP 7	95.912	2279.424	6934.994				
IP 8	98.911	2277.971	6937.618				
	100.000	2278.923	6938.146	61°00'38.60"			
	110.000	2287.670	6942.992	61°00'38.60"			
	120.000	2296.417	6947.839	61°00'38.60"			
	130.000	2305.164	6952.685	61°00'38.60"			
IP 9	130.105	2305.256	6952.736				
IP 10	134.105	2308.755	6954.675				
IP 11	137.105	2311.380	6956.128				
	140.000	2313.912	6957.530	61°00'43.89"			
IP 12	144.105	2317.503	6959.520				
IP 13	147.105	2320.127	6960.975				
IP 14	149.105	2321.876	6961.944				
	150.000	2322.659	6962.377	61°02'33.50"			
IP 15	150.987	2323.523	6962.855				
IP 16	153.206	2325.463	6963.930	61°00'43.89"			



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:
Lot: 501, 4
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Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
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DRAWING TITLE
BOULDER RETAINING
WALL SETOUT TABLES
SHEET 1 OF 1

B	20-02-2020	INFORMATION REQUEST RESPONSE		IG	MG
A	20-12-2019	ORIGINAL ISSUE		JRG	MG
Issue	Date	Description		DRN	CHK

NOT APPLICABLE

Scale at A1:		NOT APPLICABLE
Designed:	IG	
Drafted:	JRG	
Approved:	MG	
RPEQ:	16939	
Signed:		
Date:	20-02-2020	
Drawing No:		Rev. No:
5941 ENG BE1 428		B



AI HORIZ SCALE 1:100
AI VERT SCALE 1:100

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DRAWING TITLE
ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MC
A	20-12-2019	ORIGINAL ISSUE	JRG	MC
Issue	Date	Description	DRN	CH

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

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Drafted:	JRG
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RPEQ:	16939
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Date:	20-02-2020

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5941 ENG BE1 430

Rev. No:
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[illegible]



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DRAWING TITLE
ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	MC
A	20-12-2019	ORIGINAL ISSUE	JRG	MC
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

HOZ:

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
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RPEQ:	16939
Signed:	
Date:	20-02-2020

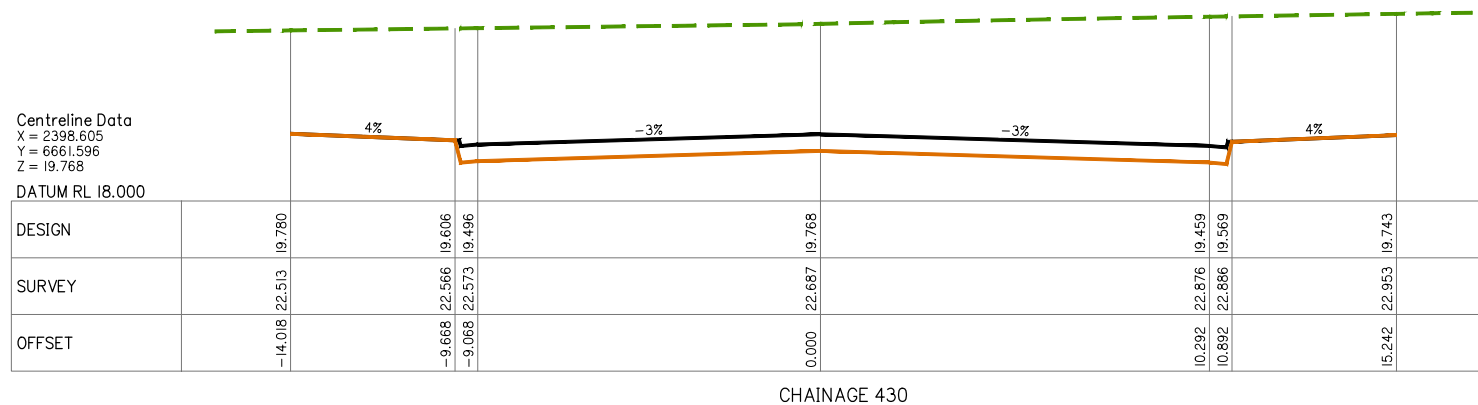
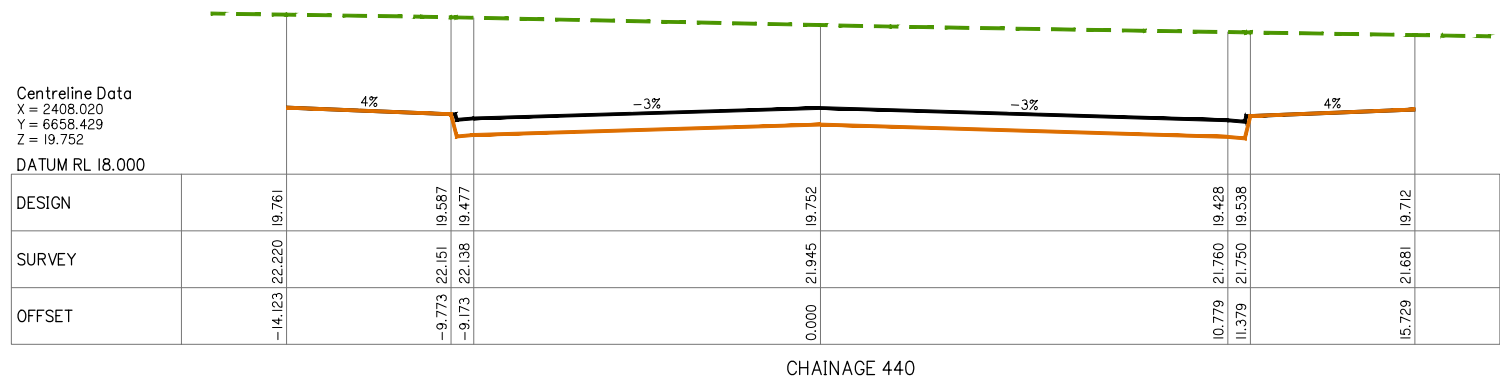
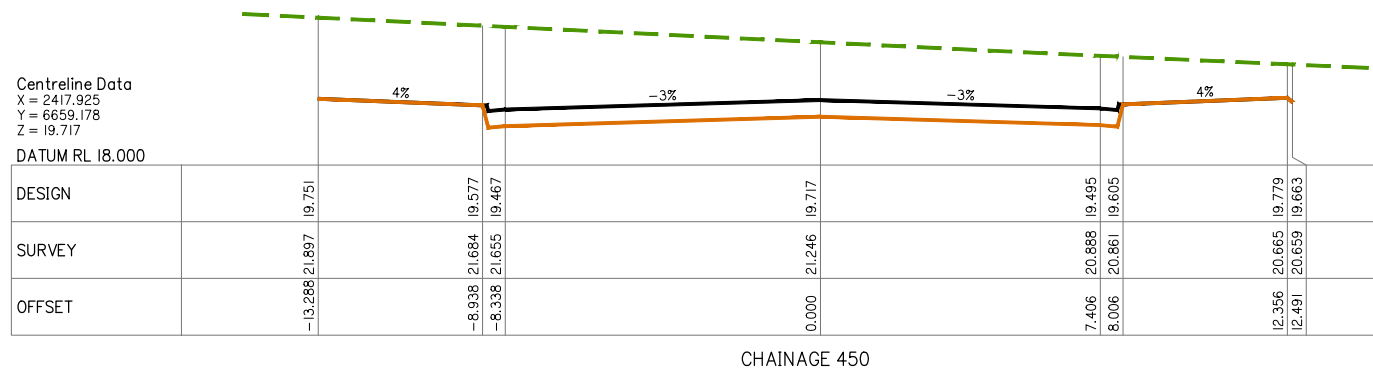
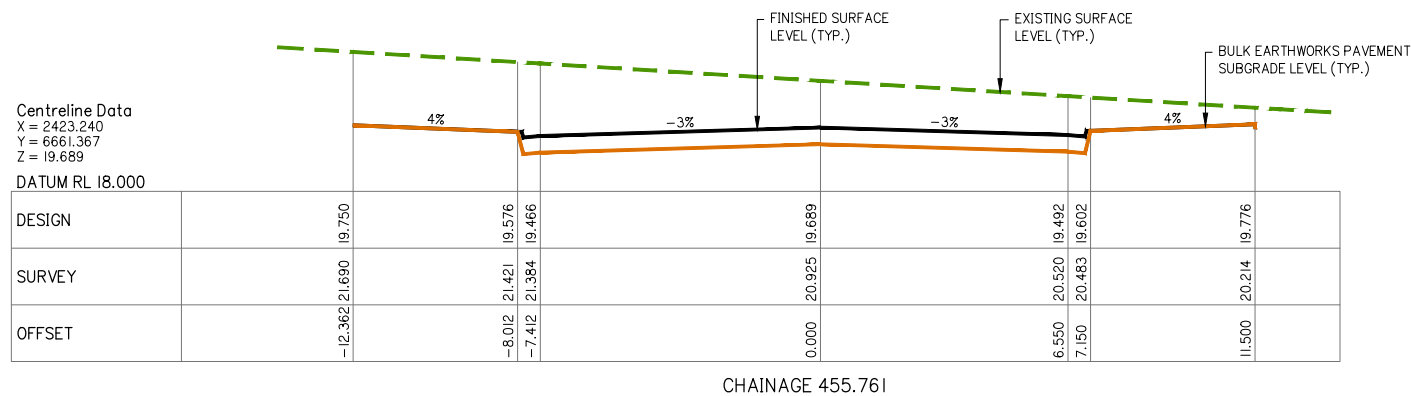
Drawing No:
5941 ENG BE1 435

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ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11

AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



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PARK YATALA

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ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 7 OF 11

B	20-09-2020	INFORMATION REQUEST RESPONSE	IG	MC	
A	20-12-2019	ORIGINAL ISSUE	JRG	MC	
Issue	Date	Description	DRN	CH	

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ:

VERT:

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5941 ENG BE1 436

Rev. No:
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CHAINAGE 590

CHAINAGE 580

CHAINAGE 570

CHAINAGE 560

CHAINAGE 550

CHAINAGE 630

CHAINAGE 620

CHAINAGE 610

CHAINAGE 600

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

Designed:	IG
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Approved:	MG
RPEQ:	16939
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ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 10 OF 1

[illegible]

SCALE IN METRES

HOZ:  Scale 1:100 - Lengths are in Metres.

VERT:  Scale 1:100 - Lengths are in Metres.

Scale at A1: AS SHOWN

Designed:	IG
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AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100

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ROAD 02 BULK
EARTHWORKS CROSS
SECTIONS SHEET 3 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed: IG

Drafted: JRG

Approved: MG

RPEQ: 16939

Signed:

Date: 20-02-2020

Drawing No:
5941 ENG BE1 443

Rev. No:
B

Centreline Data
X = 2456.229
Y = 6980.295
Z = 15.372

DATUM RL 14.000

DESIGN		15.175		15.390		15.194	15.304		15.478
SURVEY		21.378		20.791		20.300	20.282		20.129
OFFSET		-7.927		-0.628		5.922	6.522		10.872

CHAINAGE 230

Centreline Data
X = 2446.458
Y = 6982.517
Z = 15.087

DATUM RL 13.500

DESIGN		15.087		14.890		15.000		15.174
SURVEY		19.506		19.229	19.211	15.000		19.083
OFFSET		0.000		6.550	7.150	11.500		

CHAINAGE 220

Centreline Data
X = 2436.588
Y = 6984.120
Z = 14.787

DATUM RL 13.500

DESIGN		14.787		14.590		14.700		14.874
SURVEY		18.565		18.154	18.136	14.700		18.009
OFFSET		0.000		6.550	7.150	11.500		

CHAINAGE 210

Centreline Data
X = 2485.942
Y = 6976.107
Z = 16.330

DATUM RL 15.000

DESIGN		16.418		16.244		16.330		16.154	16.244		16.418
SURVEY		22.670		22.547		22.414		22.230	22.213		22.091
OFFSET		-11.500		-7.150		0.000		6.550	7.150		11.500

CHAINAGE 260

Centreline Data
X = 2476.071
Y = 6977.710
Z = 16.014

DATUM RL 14.500

DESIGN		16.101		15.927		16.014		15.817	15.927		16.101
SURVEY		22.504		22.313		21.878		21.732	21.718		21.596
OFFSET		-11.500		-7.150		0.000		6.550	7.150		11.500

CHAINAGE 250

Centreline Data
X = 2466.200
Y = 6979.312
Z = 15.699

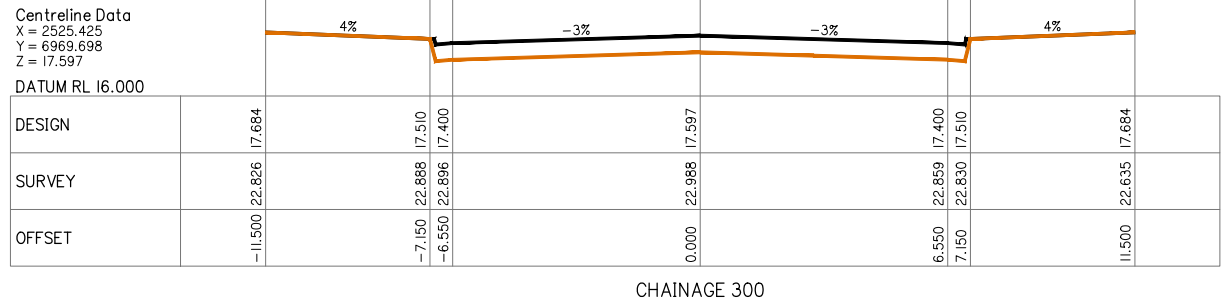
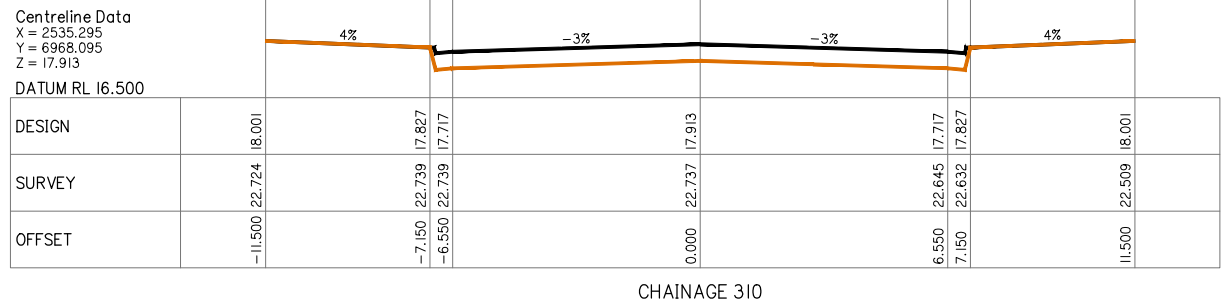
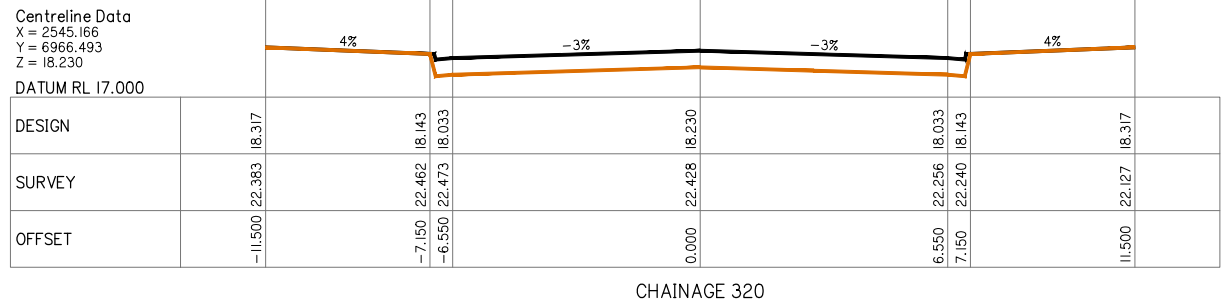
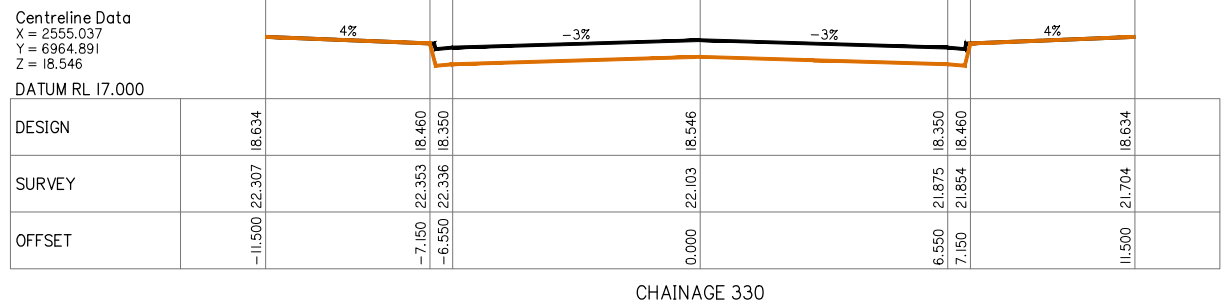
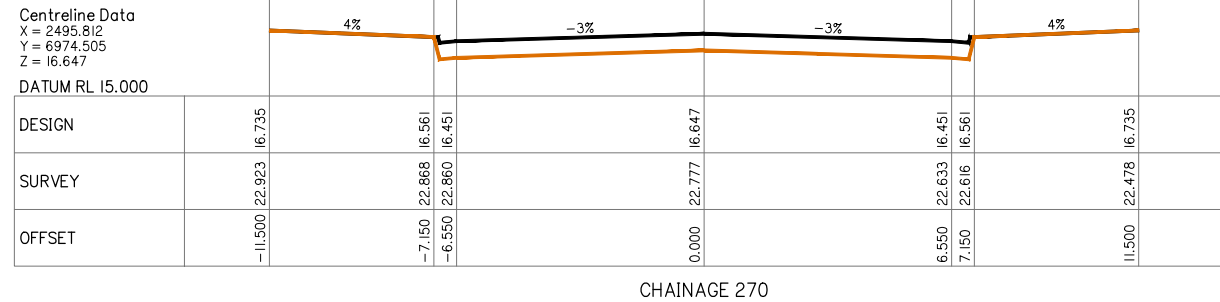
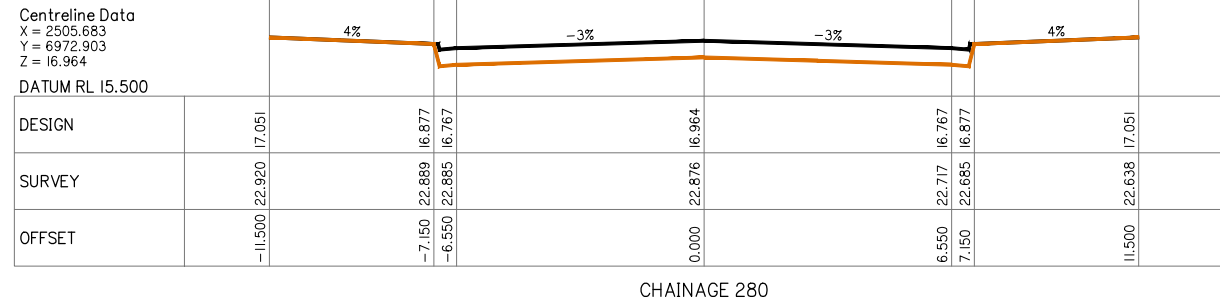
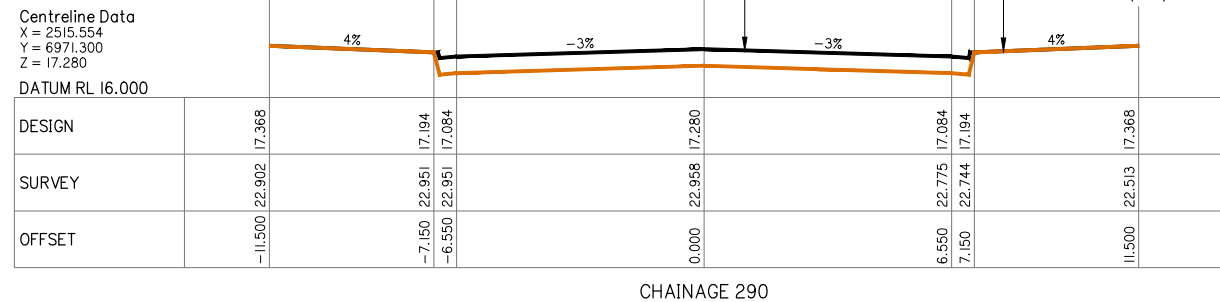
DATUM RL 14.500

DESIGN		15.787		15.613		15.699		15.503	15.613		15.787
SURVEY		22.156		21.951		21.470		21.123	21.109		20.985
OFFSET		-11.500		-7.150		0.000		6.550	7.150		11.500

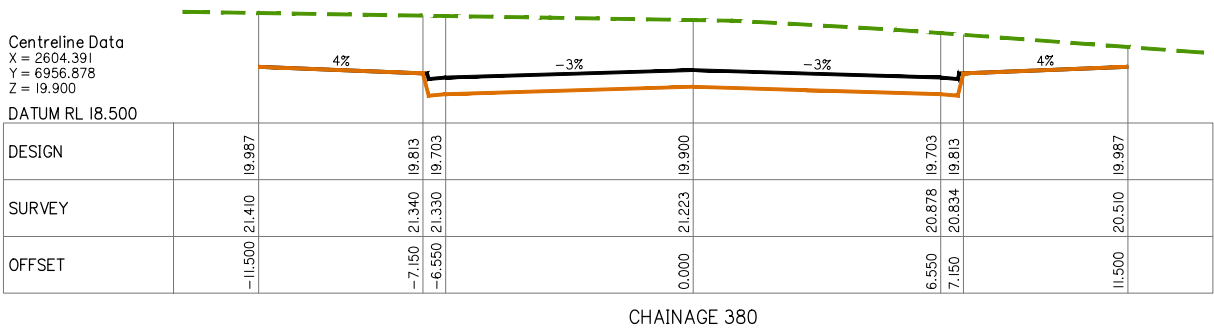
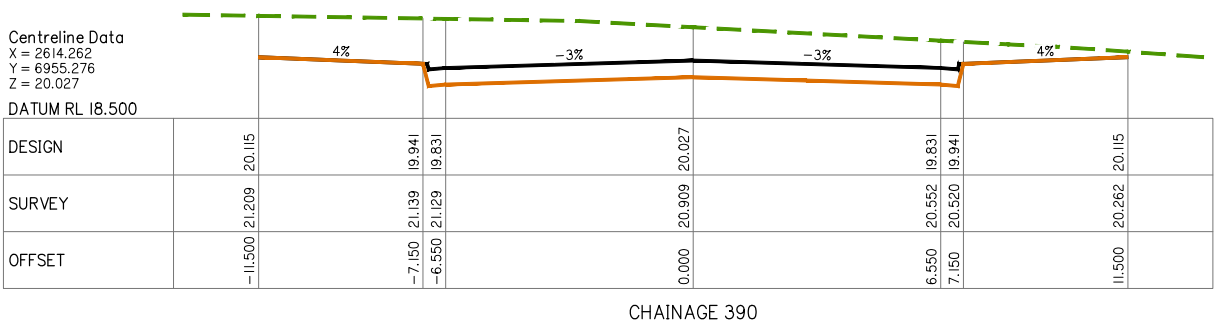
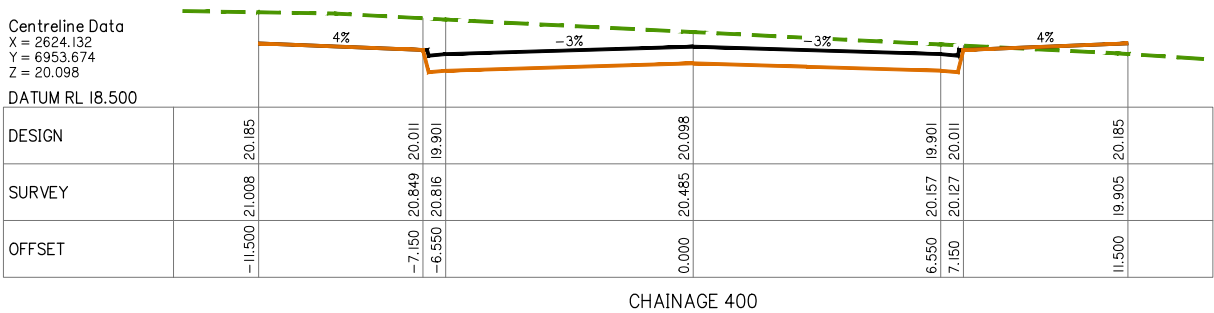
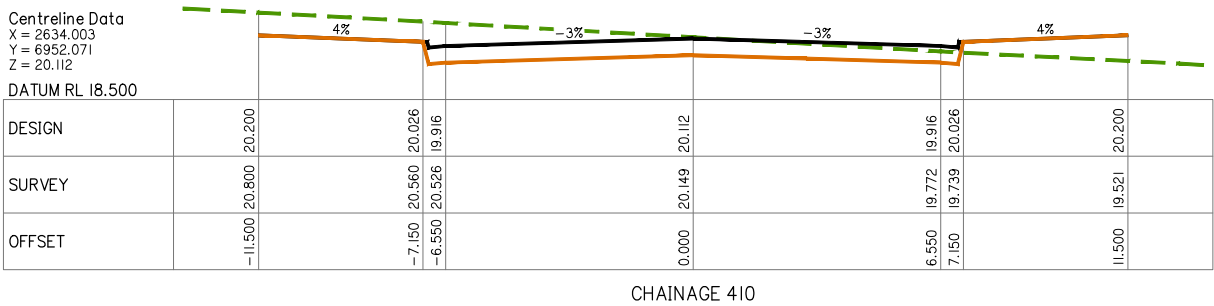
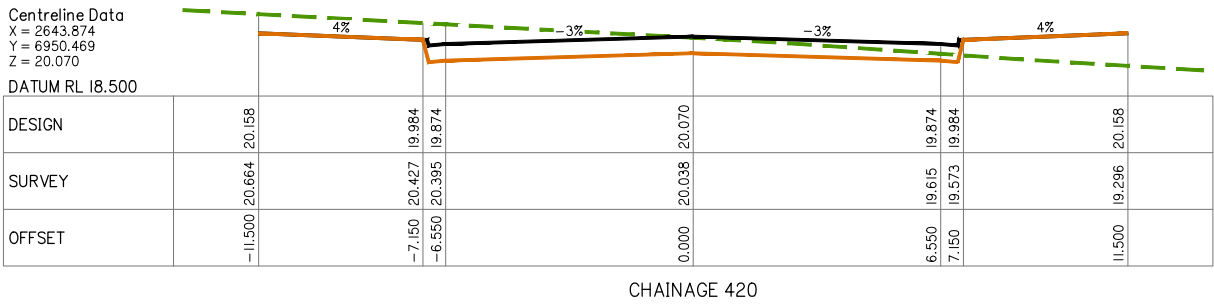
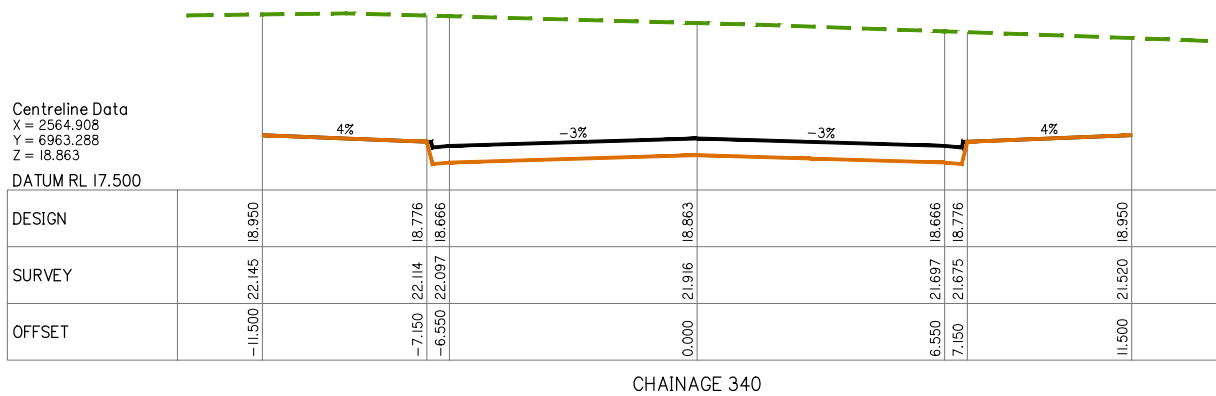
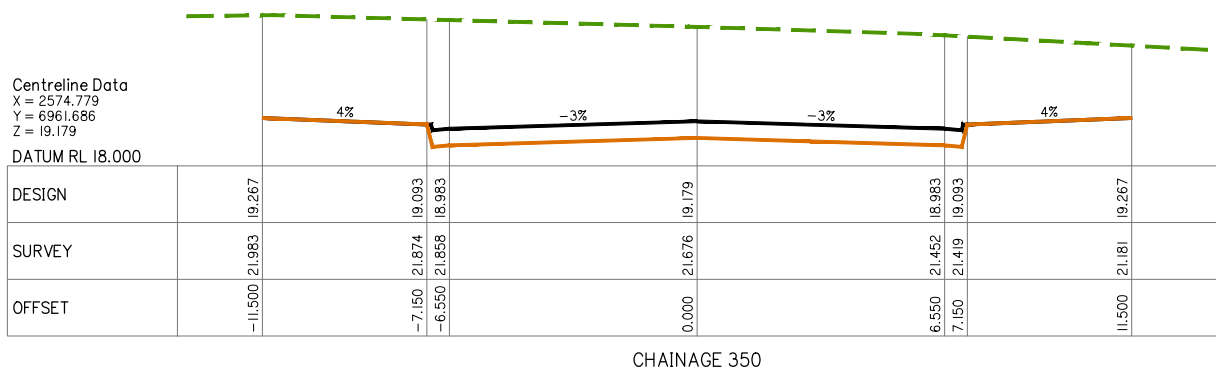
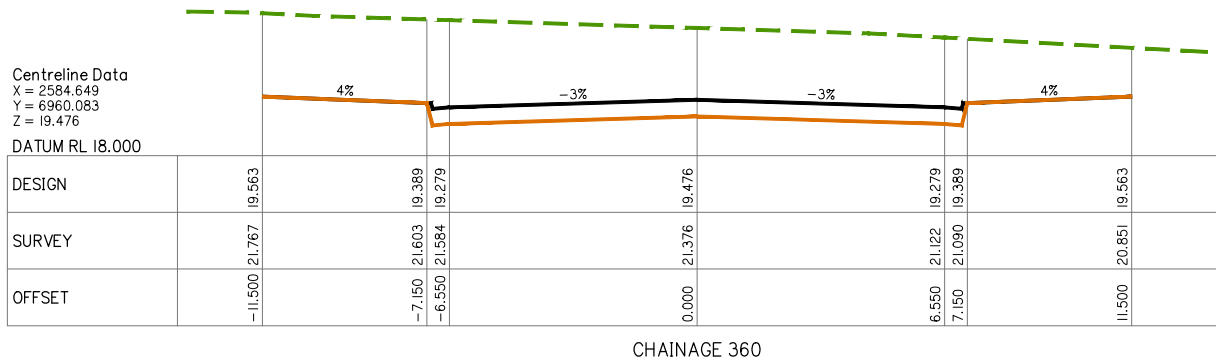
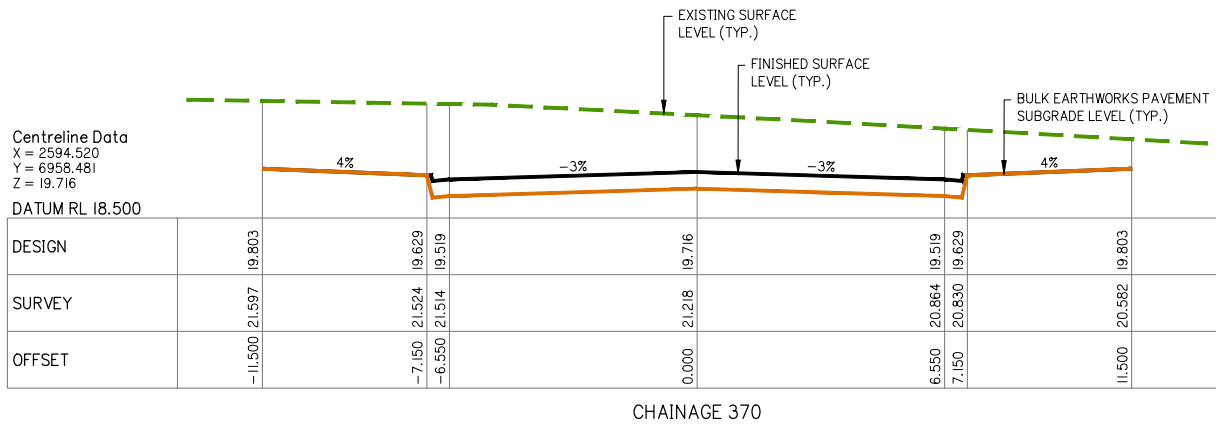
CHAINAGE 240

ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 6

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



B	20-09-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK



ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 6

A1 HORZ SCALE 1:100
A1 VERT SCALE 1:100



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SECTIONS SHEET 5 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

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Rev. No: B



Project: M38 INDUSTRIAL
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ROAD 02 BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 OF 6

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	MC
A	20-12-2019	ORIGINAL ISSUE	JRG	MC
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

HOZ:

VERT: 

Scale at A1: AS SHOWN

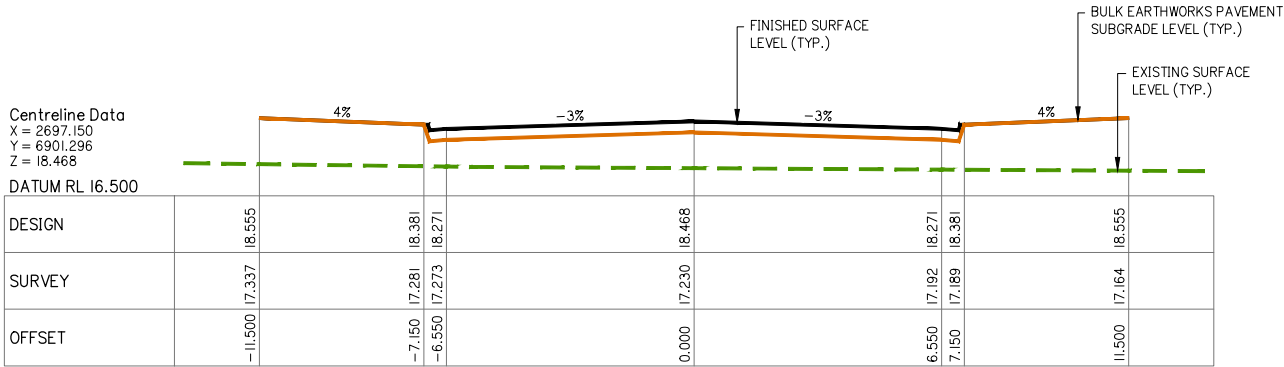
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Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

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5941 ENG BE1 446	B

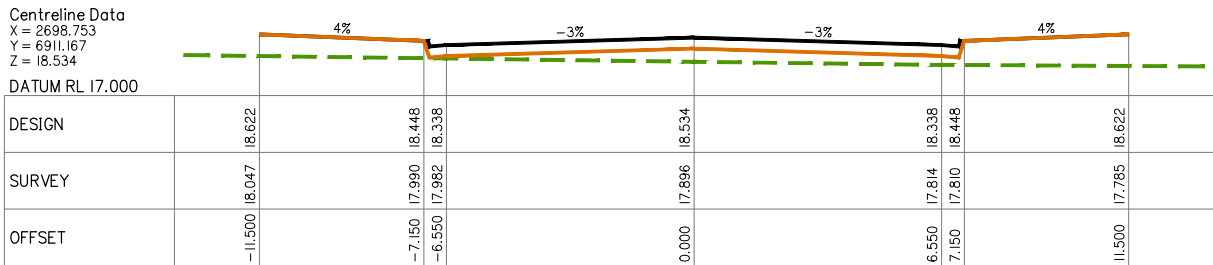


ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 6

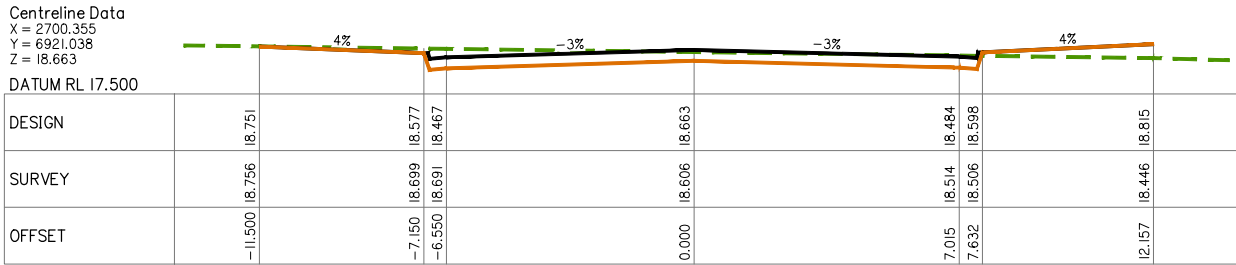
AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



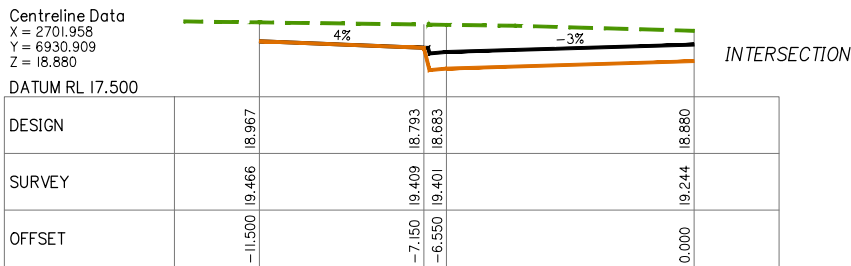
CHAINAGE 40



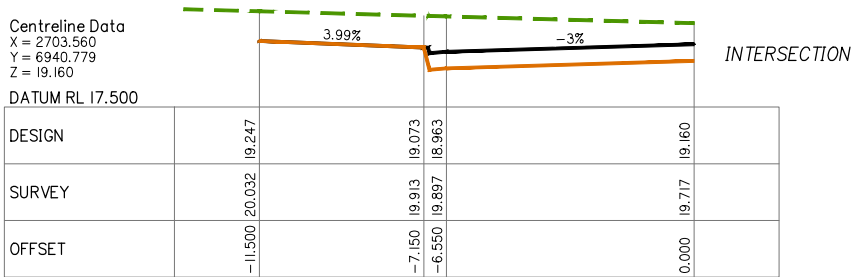
CHAINAGE 30



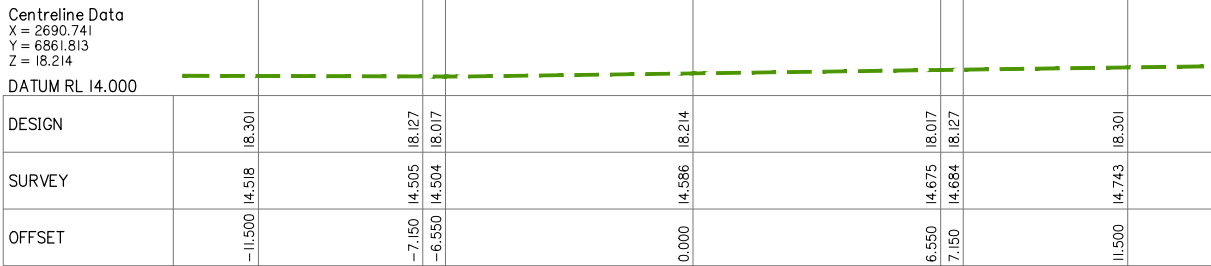
CHAINAGE 20



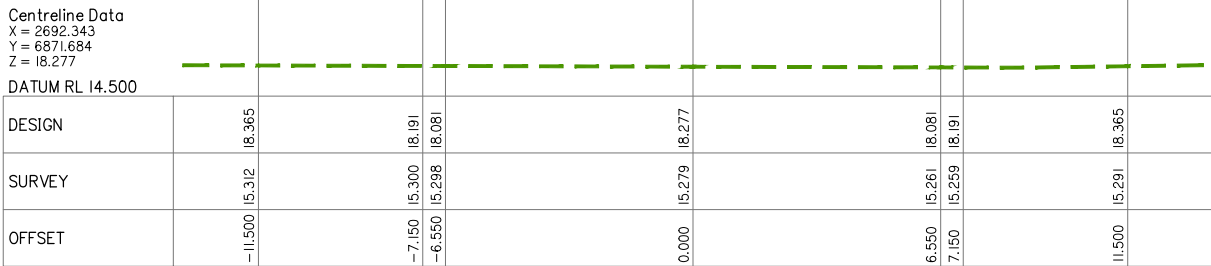
CHAINAGE 10



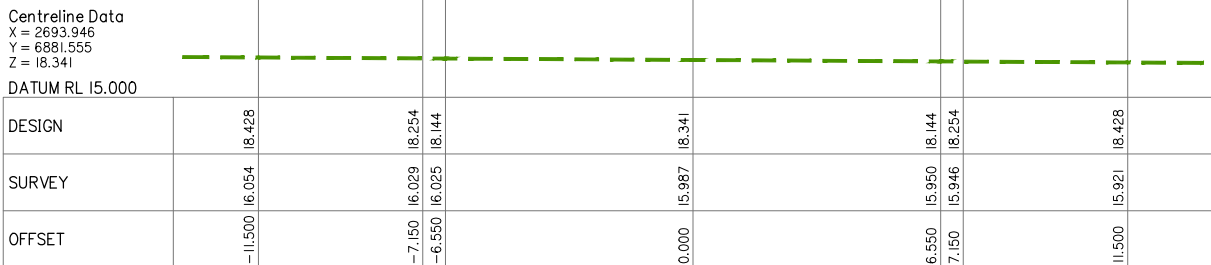
CHAINAGE 0



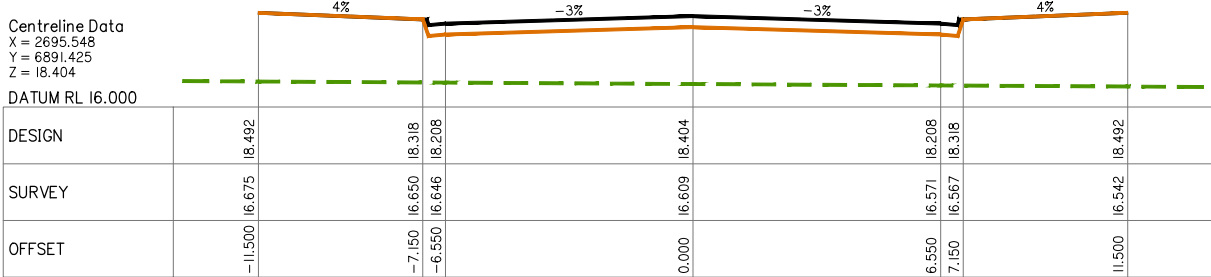
CHAINAGE 80



CHAINAGE 70



CHAINAGE 60



CHAINAGE 50

ROAD 03 (I) BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3

A1 HORZ SCALE 1:100
A1 VERT SCALE 1:100



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Project: M38 INDUSTRIAL
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Site Address:
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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
ROAD 03 (1) BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 3

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed: IG
Drafted: JRG
Approved: MG
RPEQ: 16939
Signed:
Date: 20-02-2020

Drawing No: 5941 ENG BE1 447
Rev. No: B

[illegible]

Scale 1:100 - Lengths are in Metres.

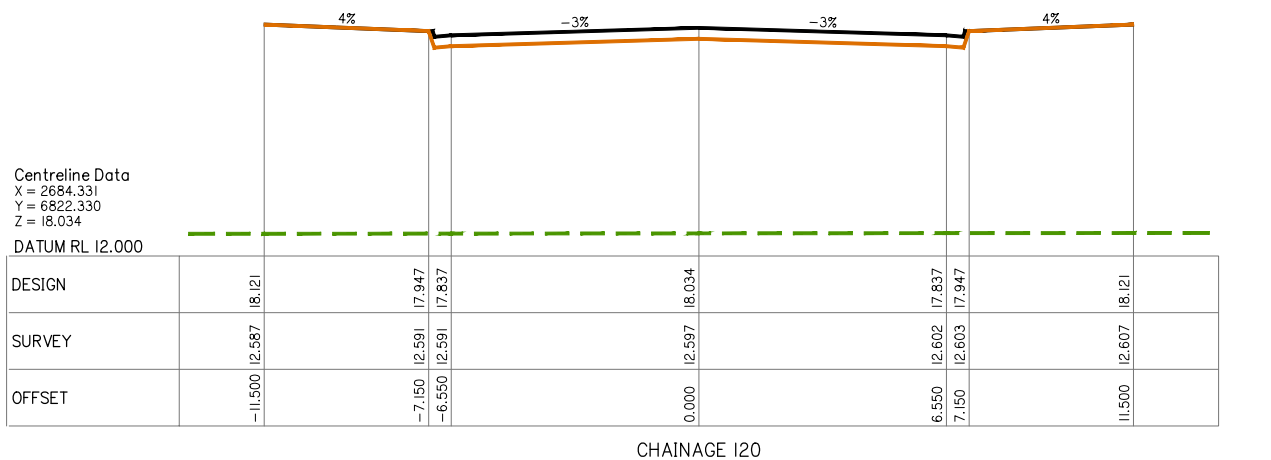
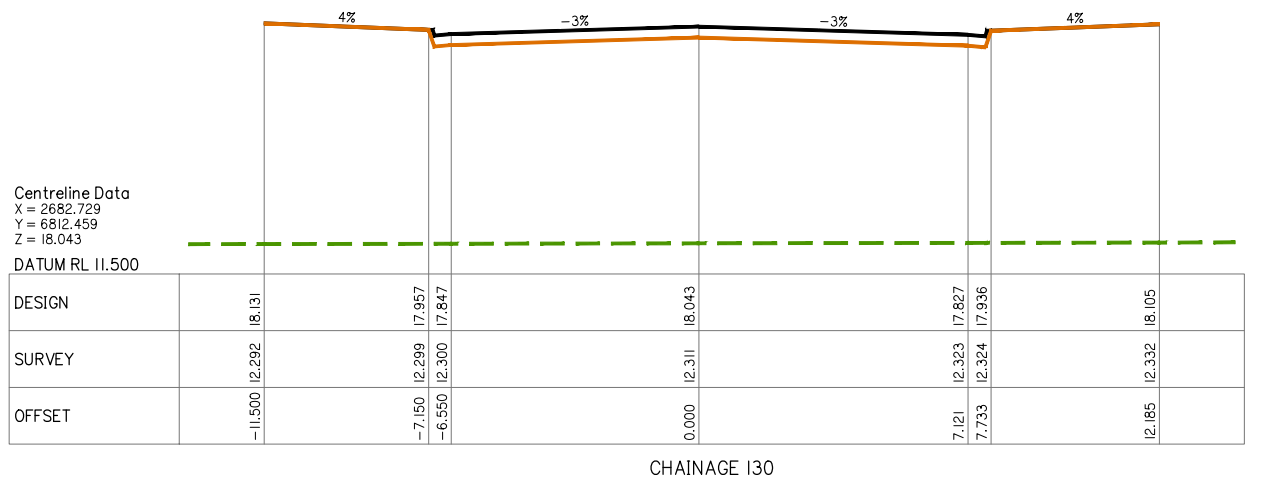
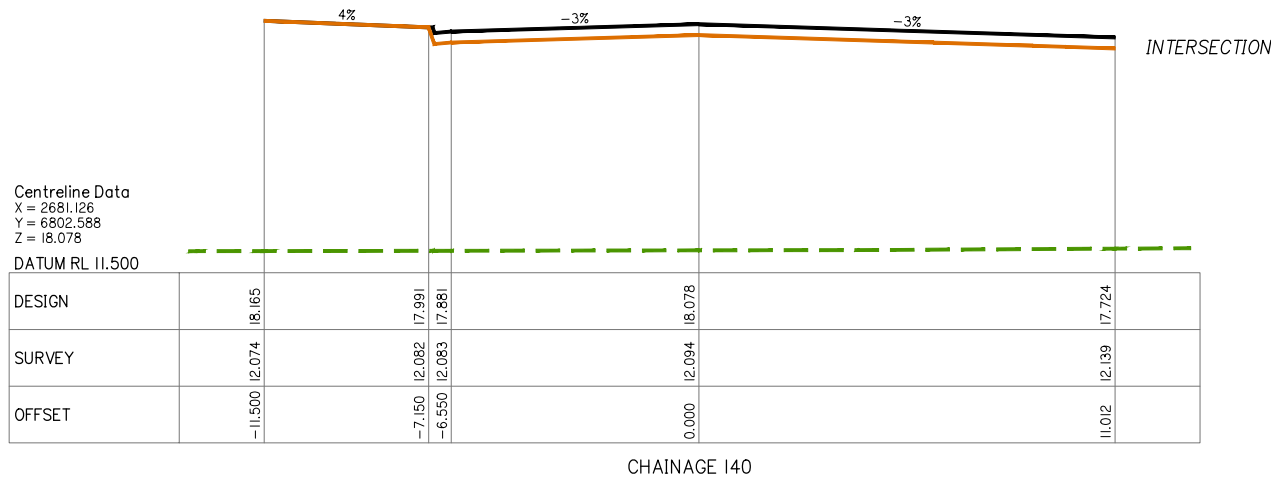
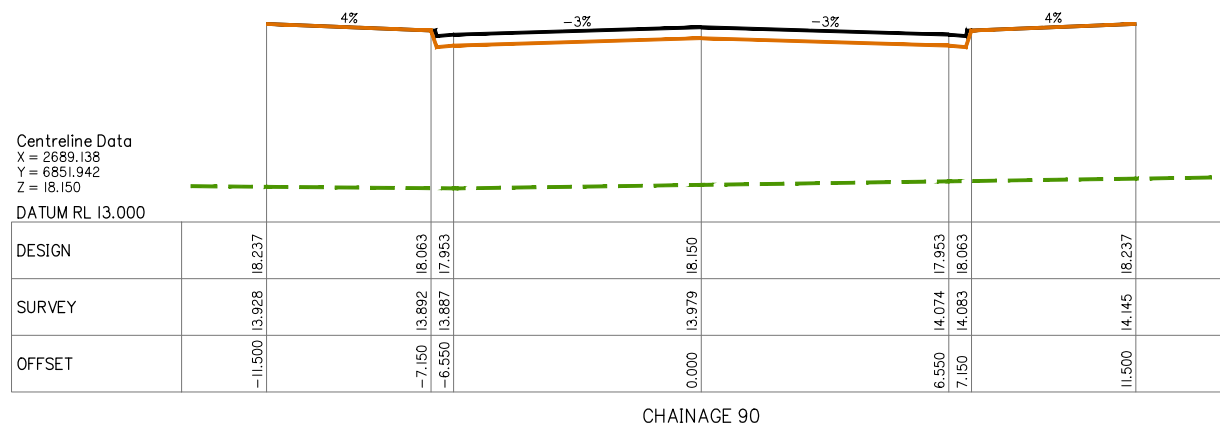
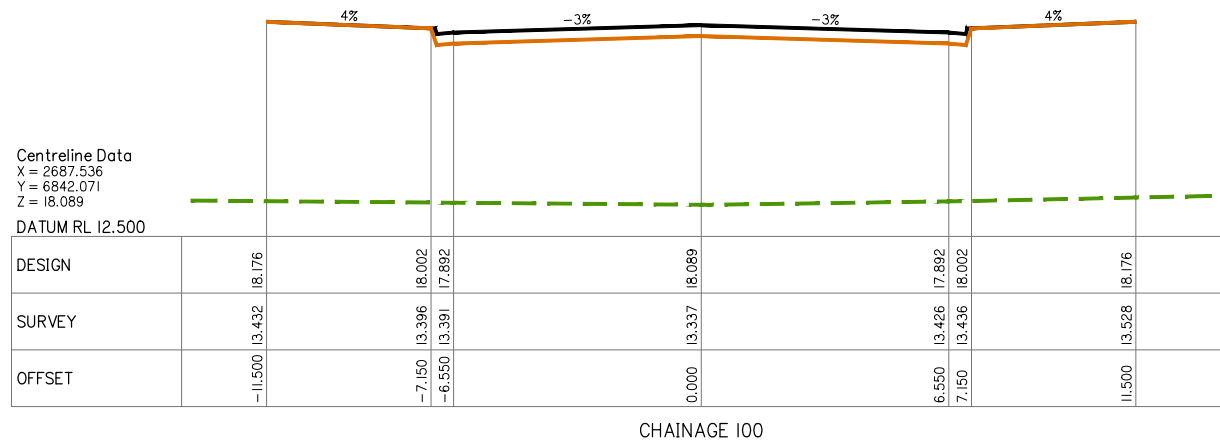
HOZ:

VERT:

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 448	B





Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020



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Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
Contour Interval: -
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DRAWING TITLE
ROAD 03 (2) BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 2

B	20-02-2020	INFORMATION REQUEST RESPONSE	JG	MJ		
A	20-12-2019	ORIGINAL ISSUE	JPG	MJ		
Issue	Date	Description	DRN	CHK		

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Drafted:	JRG
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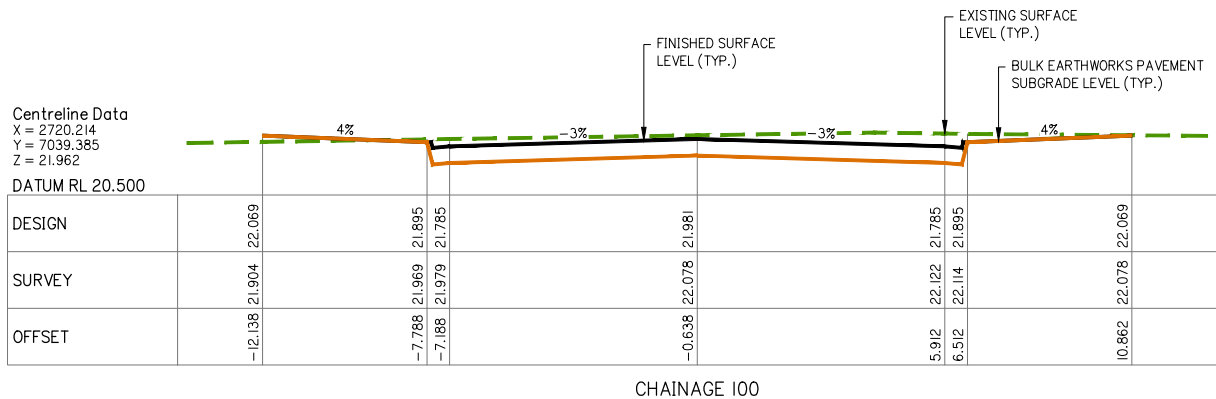
Approved:	MG
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RPEQ:	1693
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Signed:	
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Date:	20-02-2020
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Drawing No:	Rev. No:
5941 ENG BE1 451	B



ROAD 03 (2) BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2

AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



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Level Datum: AHD
Meridian: -
Contour Interval: -
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DRAWING TITLE
EMERI STREET EXT. BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 2

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	M
A	20-12-2019	ORIGINAL ISSUE	JRG	M
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
-----------	----

Drafted:	JRG
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Approved:	MG
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RPEQ:	16939
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Signed: 

Date: 20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 452	B



EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2

AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



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PARK YATALA

Site Address:
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Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
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DRAWING TITLE
EMERI STREET EXT. BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 2

[illegible]

Scale 1:100 - Lengths are in Metres.

HOZ: 

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 453

Rev. No:
B



EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2

AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



Project: M38 INDUSTRIAL
PARK YATALA

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Meridian:	-
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SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	Ch-K	

Scale 1:100 - Lengths are in Metres.

VERT: 

Date:	11/10/20
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Rev. No:
B



AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



Project: M38 INDUSTRIAL
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PSM: -
RL: -

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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 3 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

Scale 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT: 

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

CHAINAGE 200

CHAINAGE 190

CHAINAGE 180

CHAINAGE 170

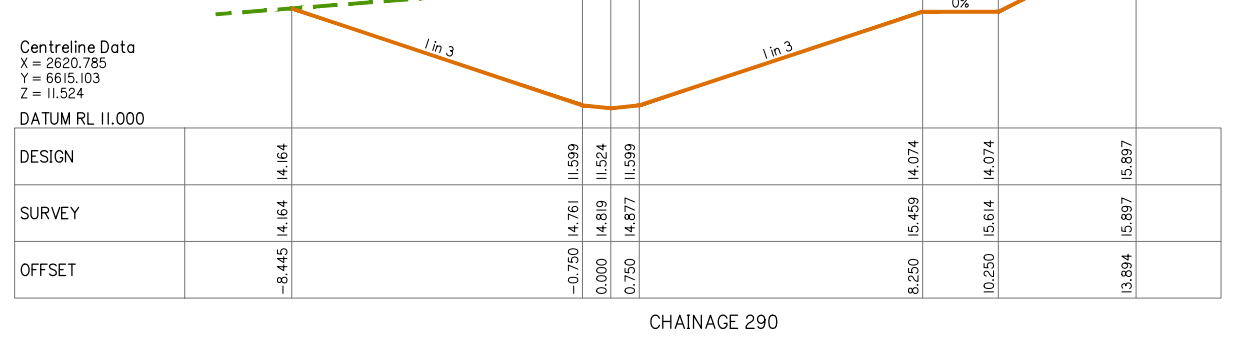
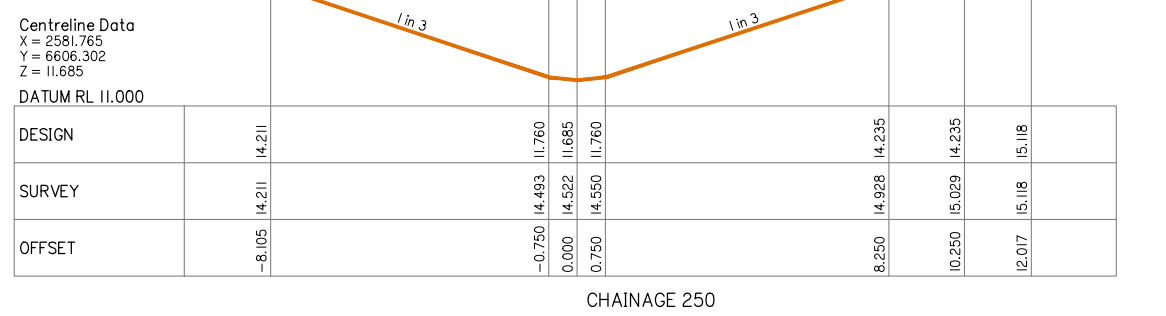
CHAINAGE 240

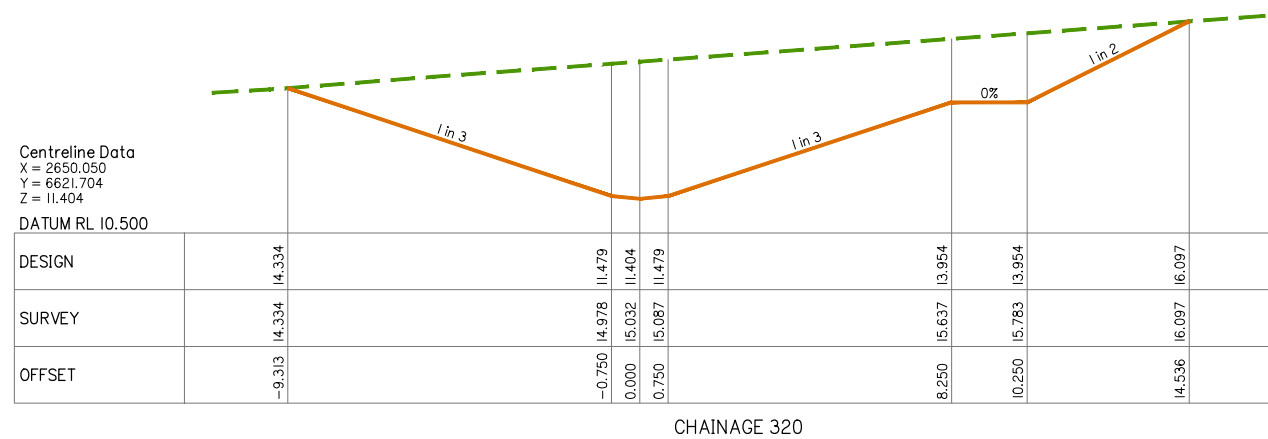
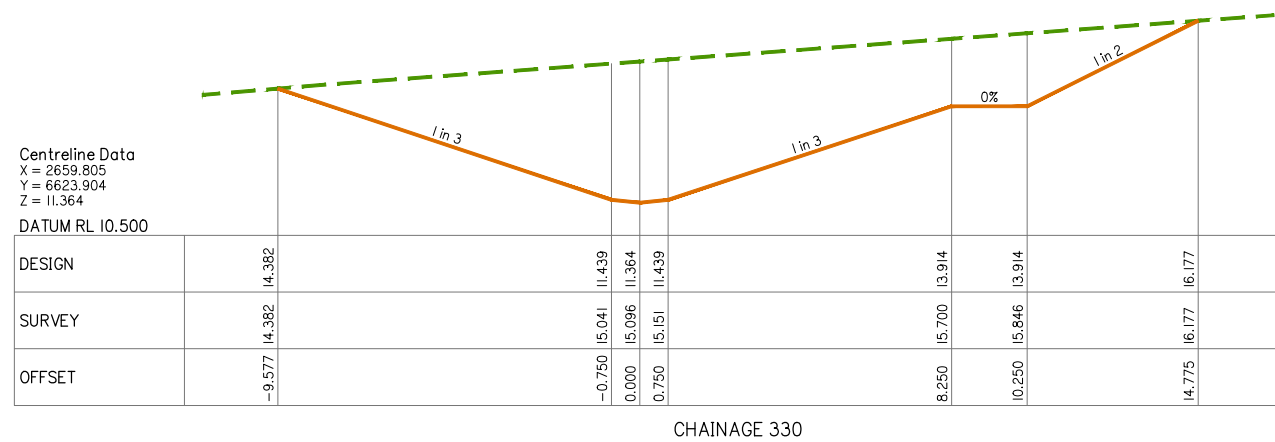
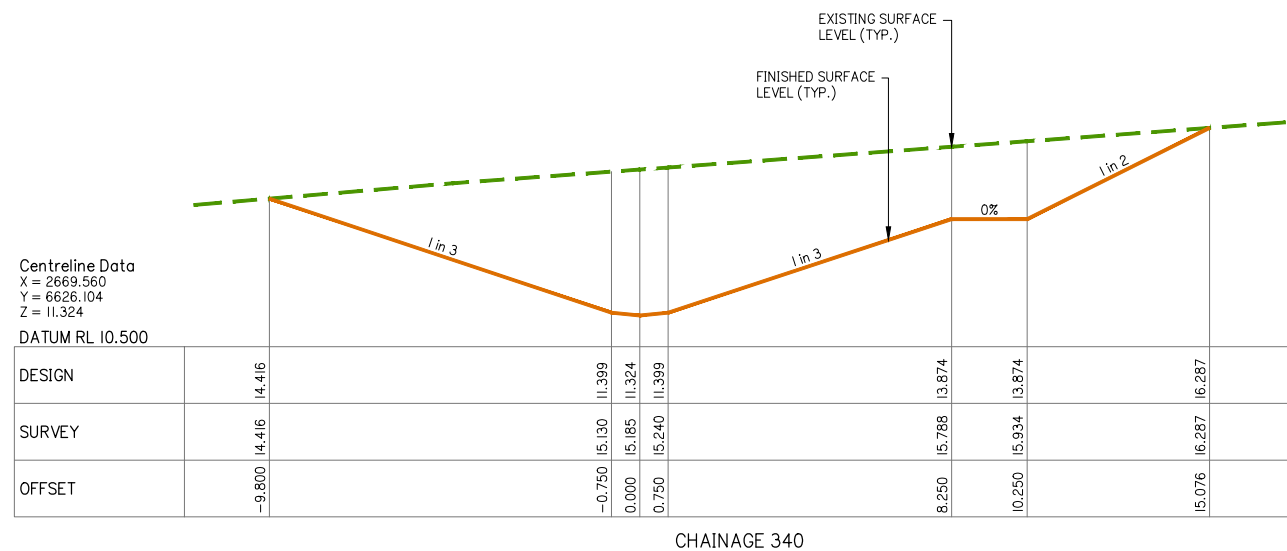
CHAINAGE 230

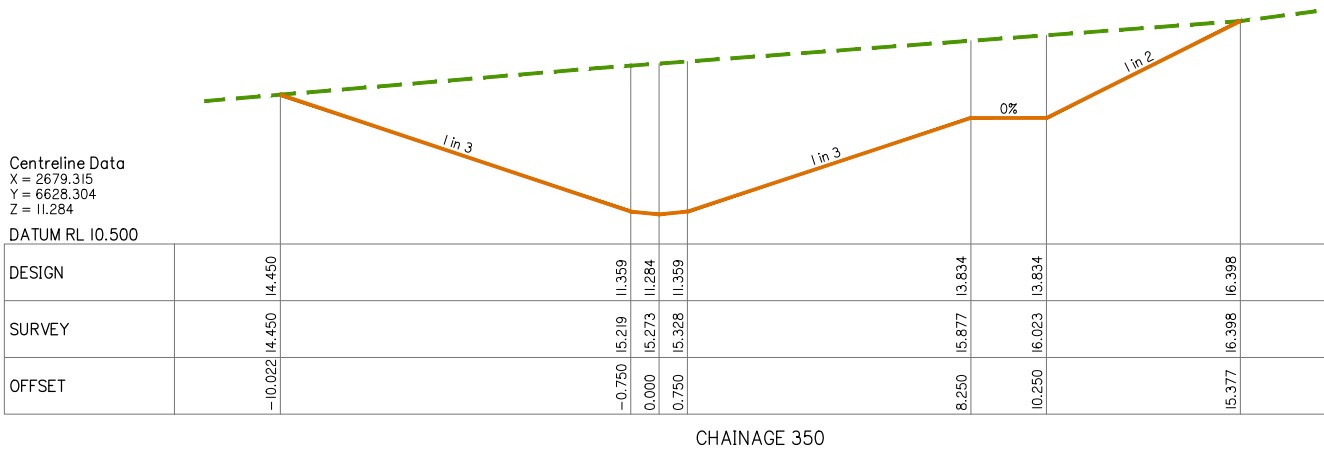
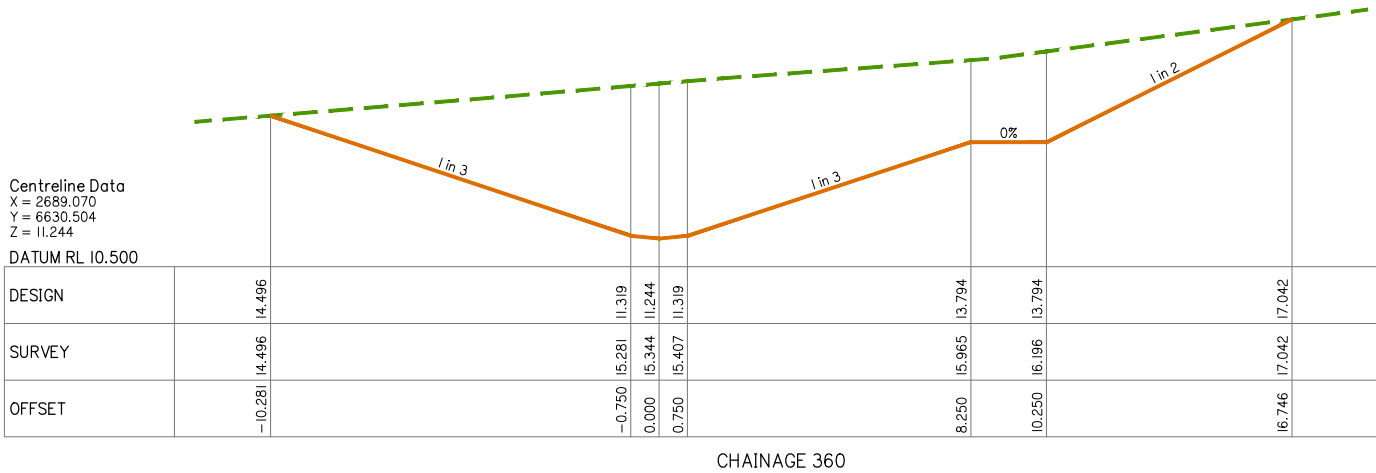
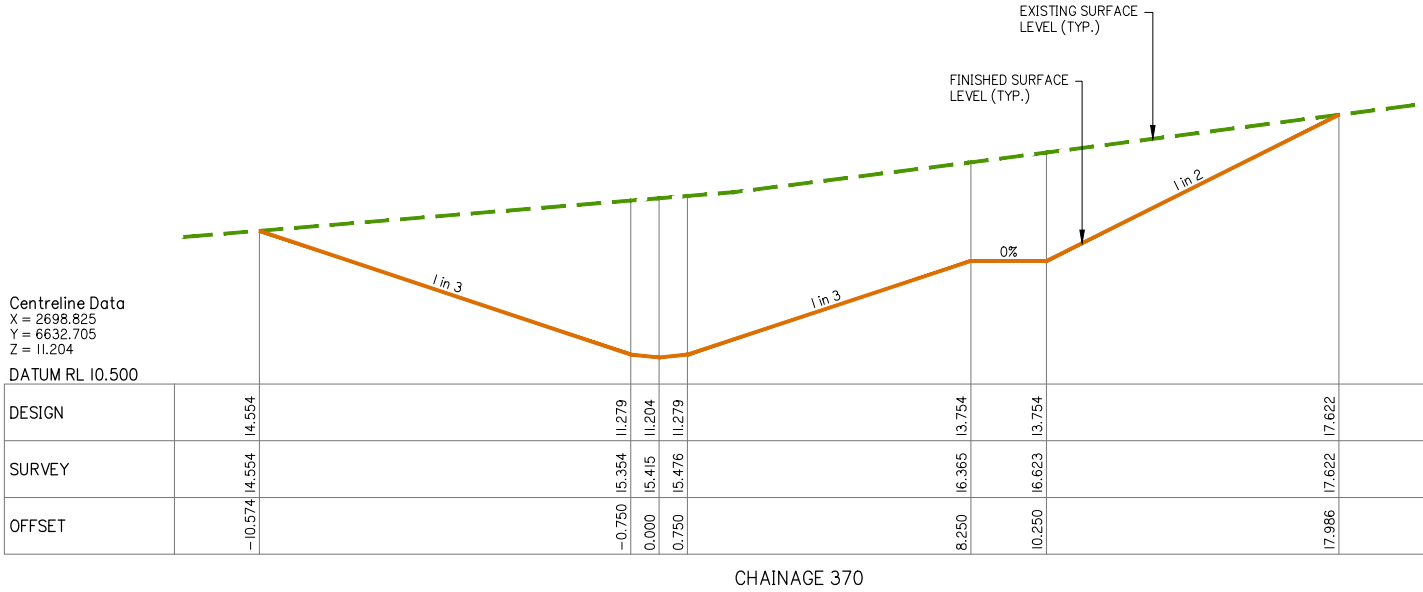
CHAINAGE 220

CHAINAGE 210

AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100







SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

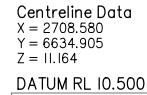
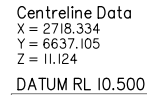
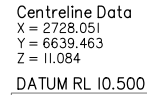
Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 459
Rev. No: B



AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100

Client:



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PARK YATALA

Site Address:
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RPD:

Lot:	501, 4
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Local Authority:	CITY OF GOLD COAST COUNCIL
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Meridian:	-
Contour Interval:	-
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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 7 OF 11

B	20-09-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ: 

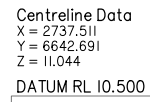
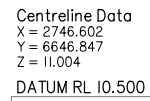
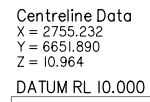
Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 460	B



AI HORIZ SCALE 1:100
AI VERT SCALE 1:100



Site Address:
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Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
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Meridian:	-
Contour Interval:	-
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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 8 OF 11

B	20-02-2020	INFORMATION REQUEST RESPONSE	IC	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

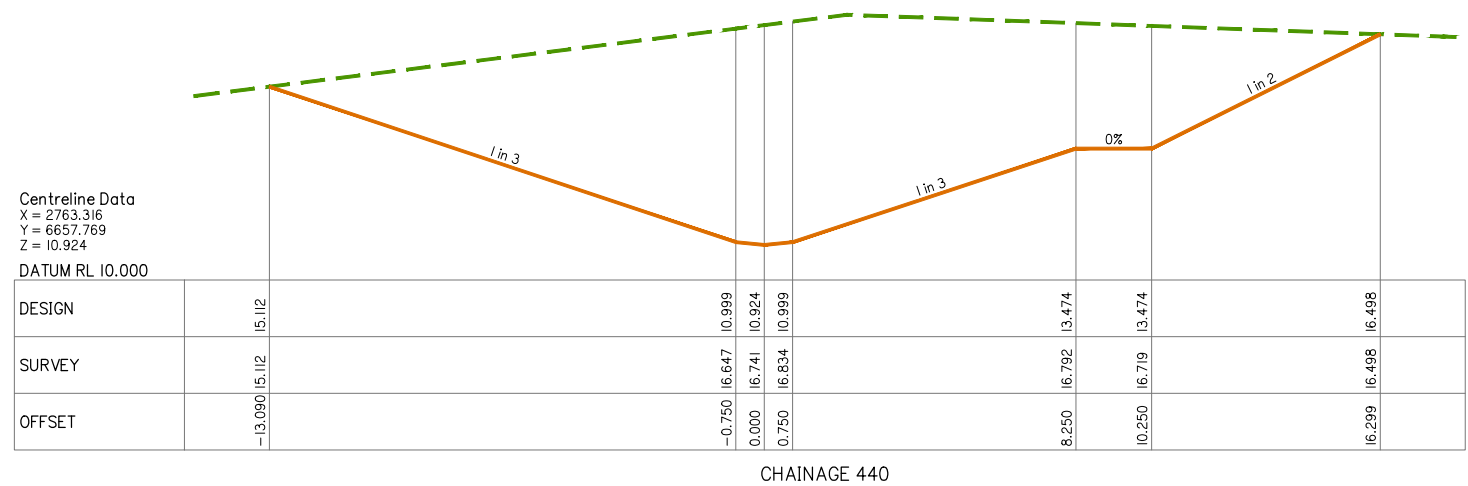
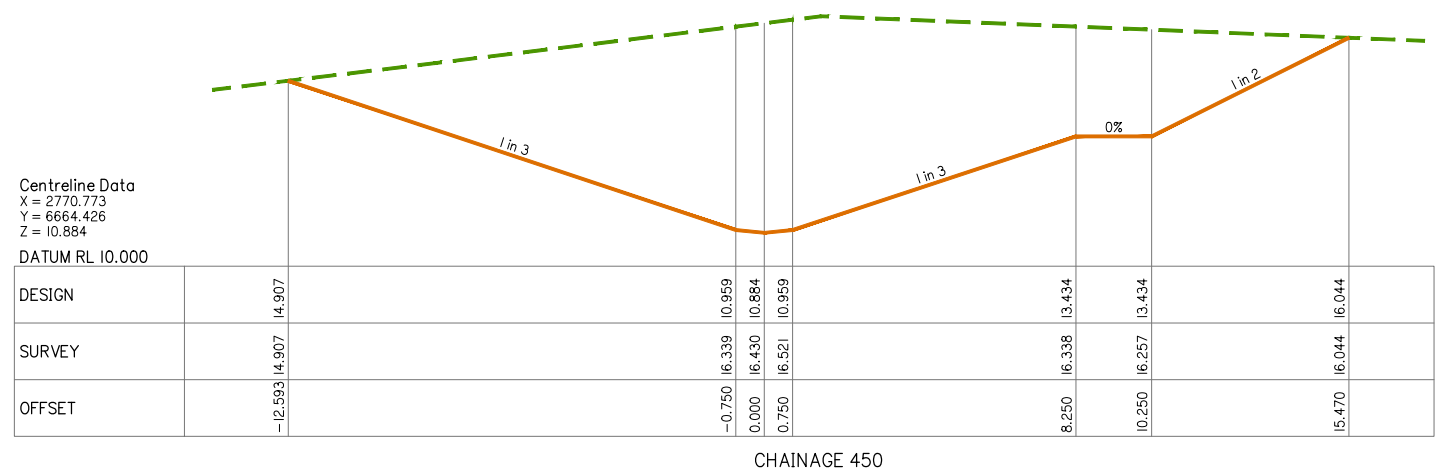
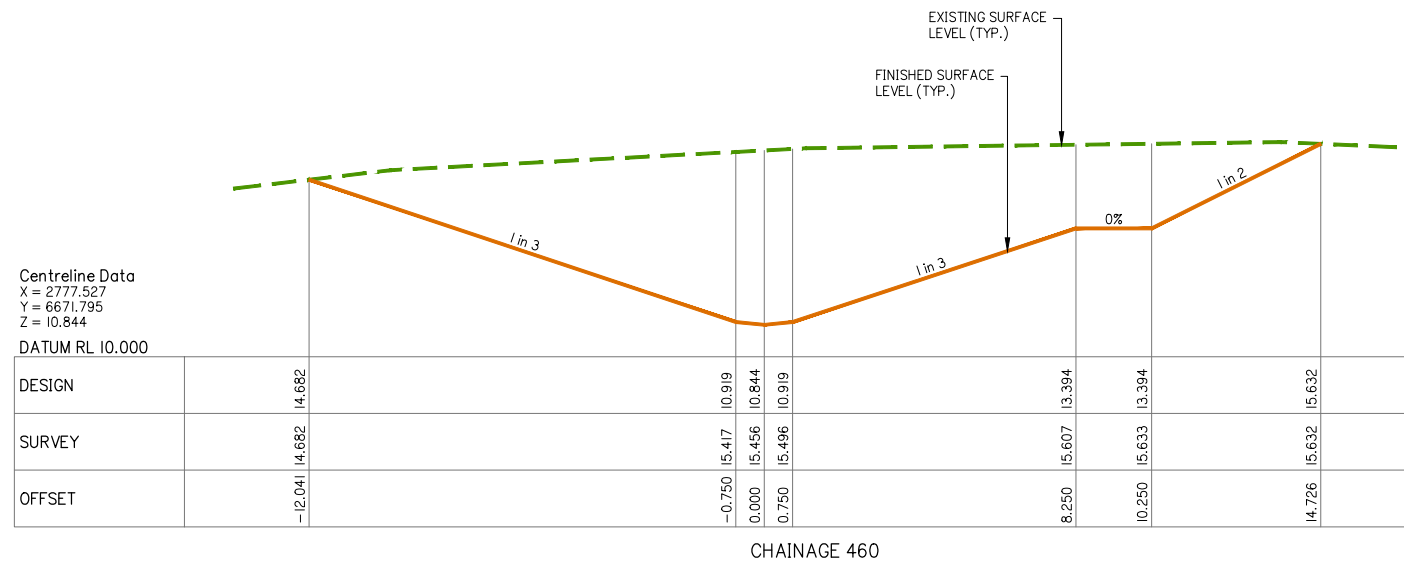
HOZ: 

VERT: 

Scale at A1:	AS SHOWN
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 461	B





Site Address:
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Level Datum:
Meridian:
Contour Interval:
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SWALE DRAIN B BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 3

B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ	M0
A	20-12-2019	ORIGINAL ISSUE	JRG	M0
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:

Designed:	IG
-----------	----

Drafted:	JRG
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Approved:	MAO
-----------	-----

	MG
BBFO	

RPEQ:	16939
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Signed: 

Date:	20-02-2020
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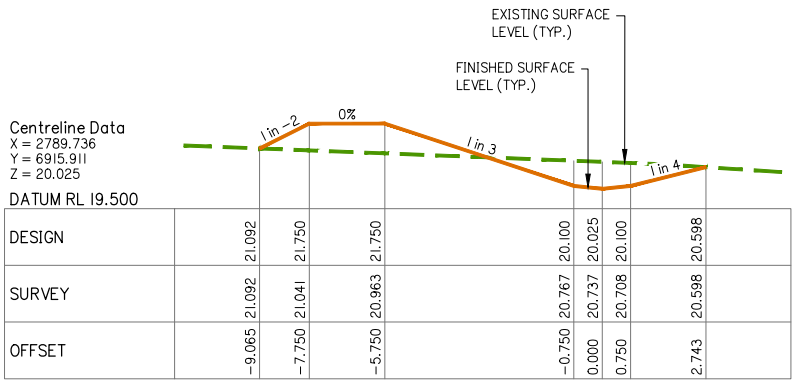
Drawing No:
5941 ENG BE1 465

Rev. No:
B

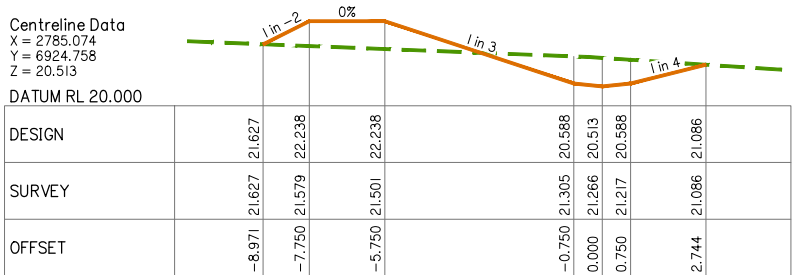


SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3

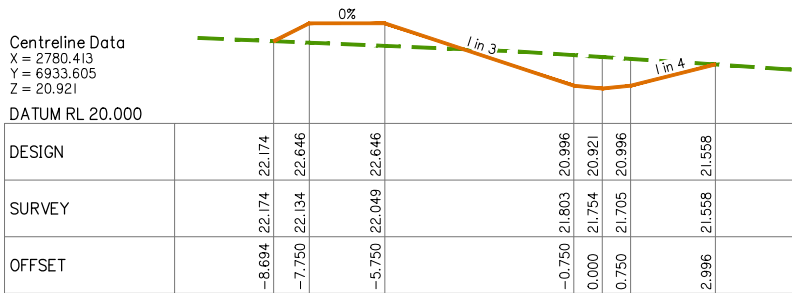
AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



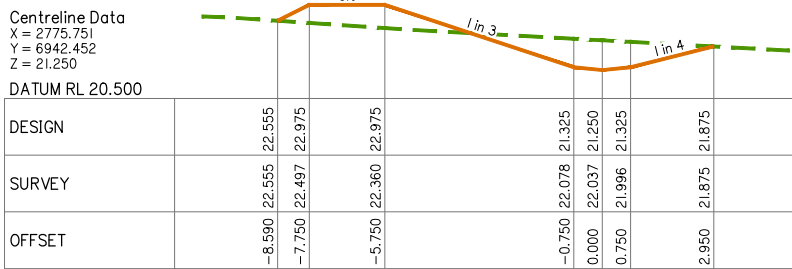
CHAINAGE 130



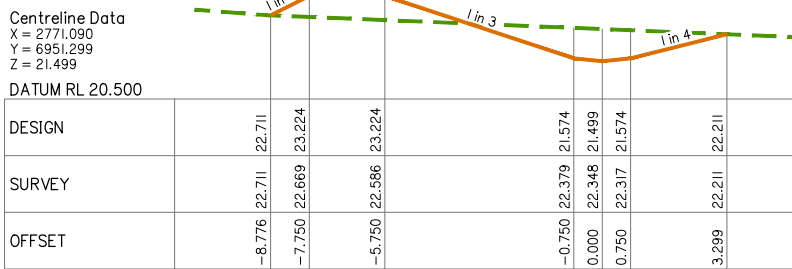
CHAINAGE 120



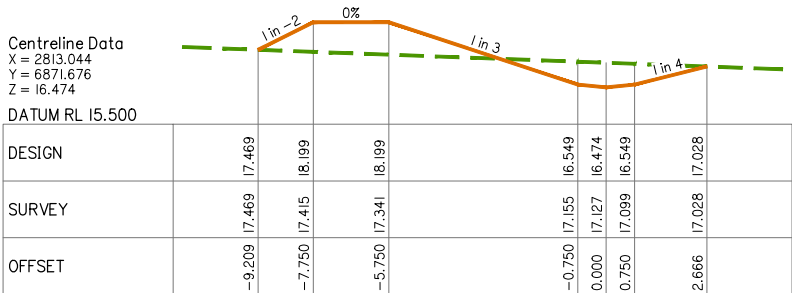
CHAINAGE 110



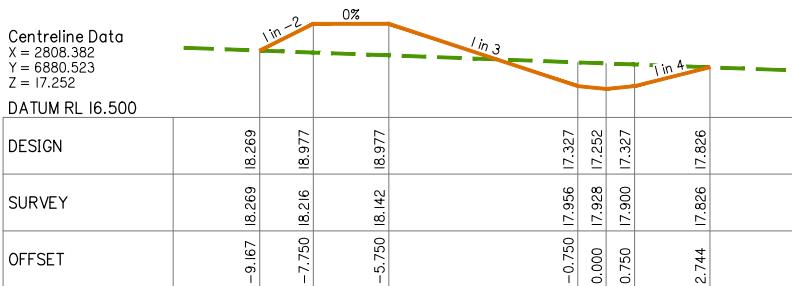
CHAINAGE 100



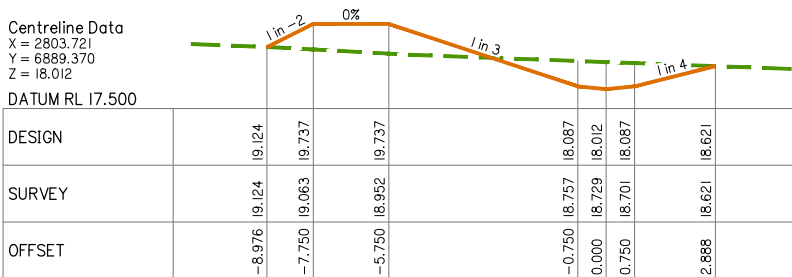
CHAINAGE 90



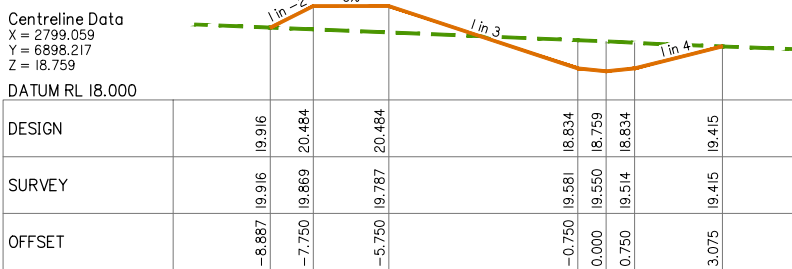
CHAINAGE 180



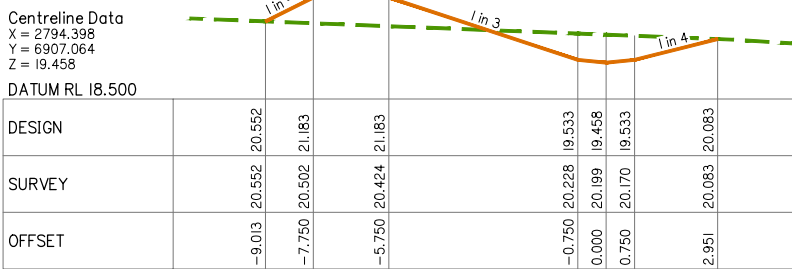
CHAINAGE 170



CHAINAGE 160



CHAINAGE 150



CHAINAGE 140

SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3

AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

ISSUED FOR APPROVAL
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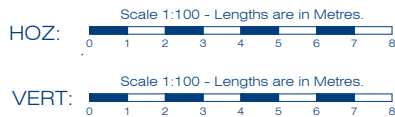
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DRAWING TITLE
SWALE DRAIN B BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 3

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

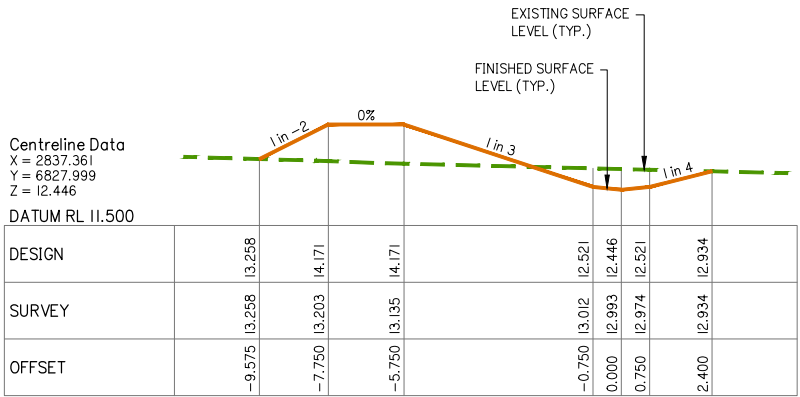
SCALE IN METRES



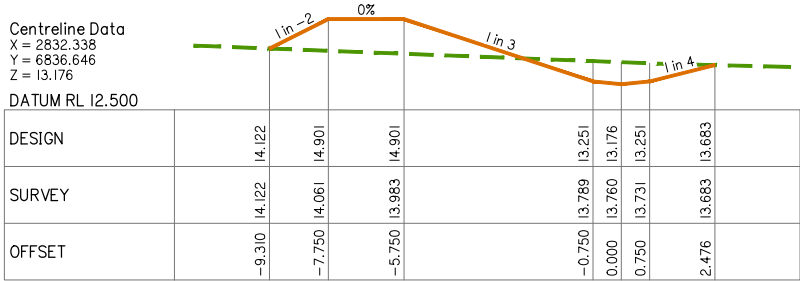
Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

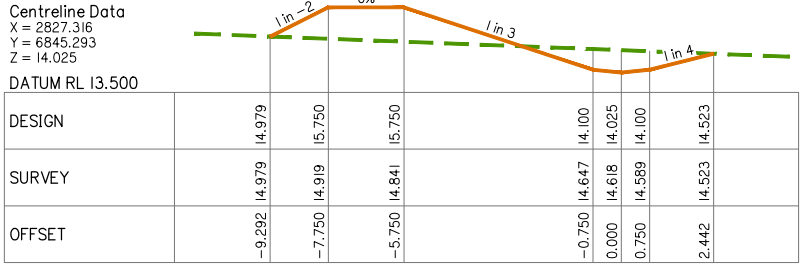
Drawing No: 5941 ENG BE1 466
Rev. No: B



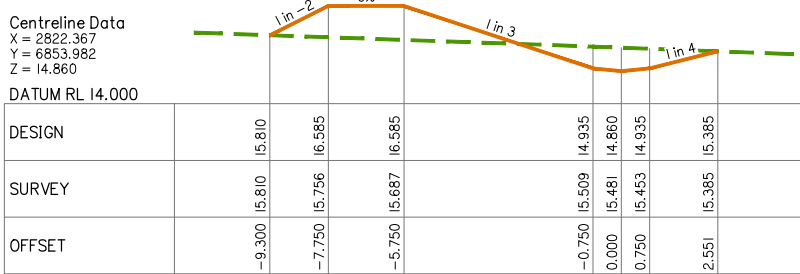
CHAINAGE 230



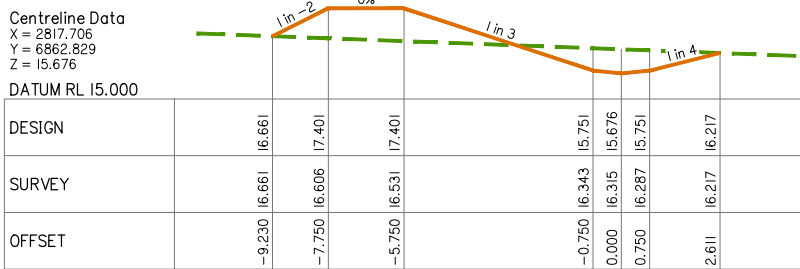
CHAINAGE 220



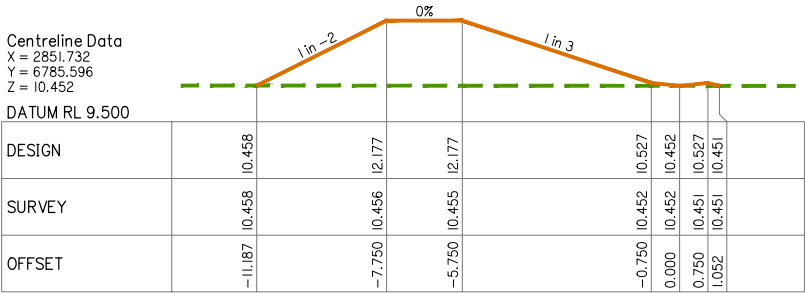
CHAINAGE 210



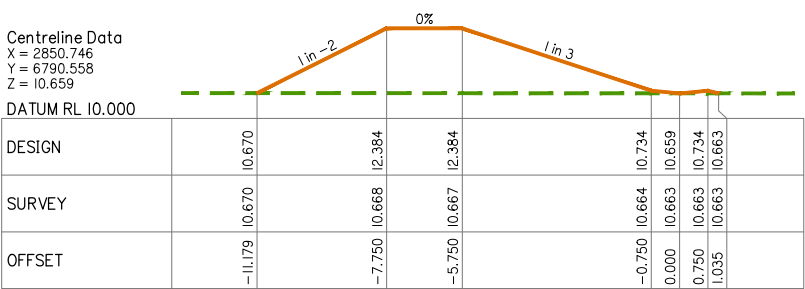
CHAINAGE 200



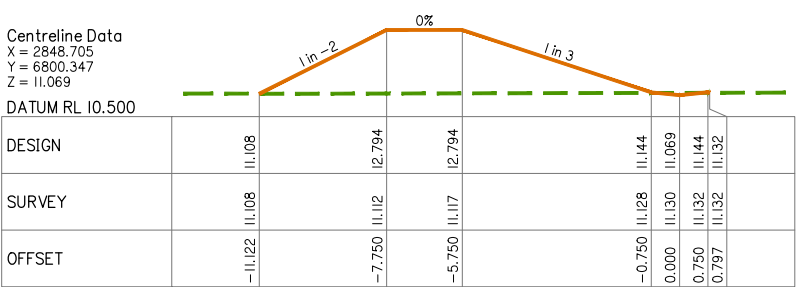
CHAINAGE 190



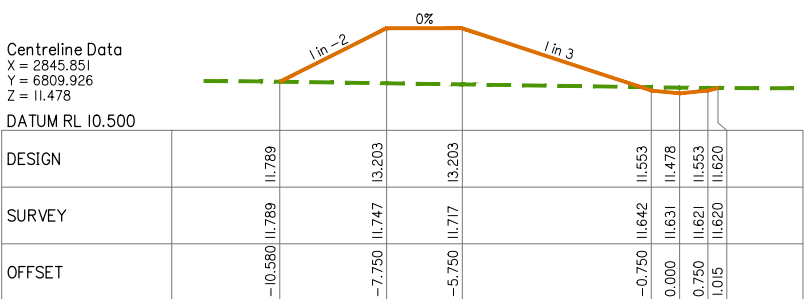
CHAINAGE 275.059



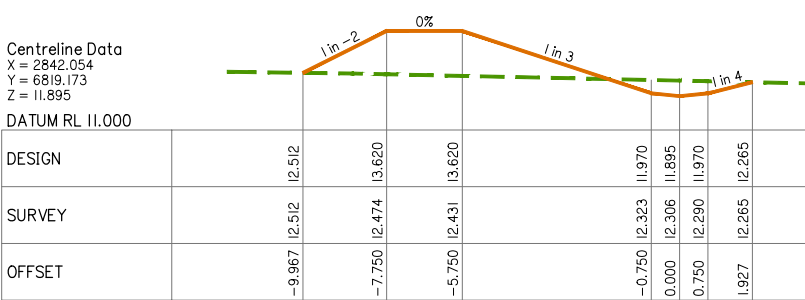
CHAINAGE 270



CHAINAGE 260



CHAINAGE 250



CHAINAGE 240

SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3

A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100



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Meridian: -
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RL: -

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DRAWING TITLE
SWALE DRAIN B BULK
EARTHWORKS CROSS
SECTIONS SHEET 3 OF 3

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

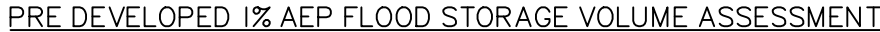
Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

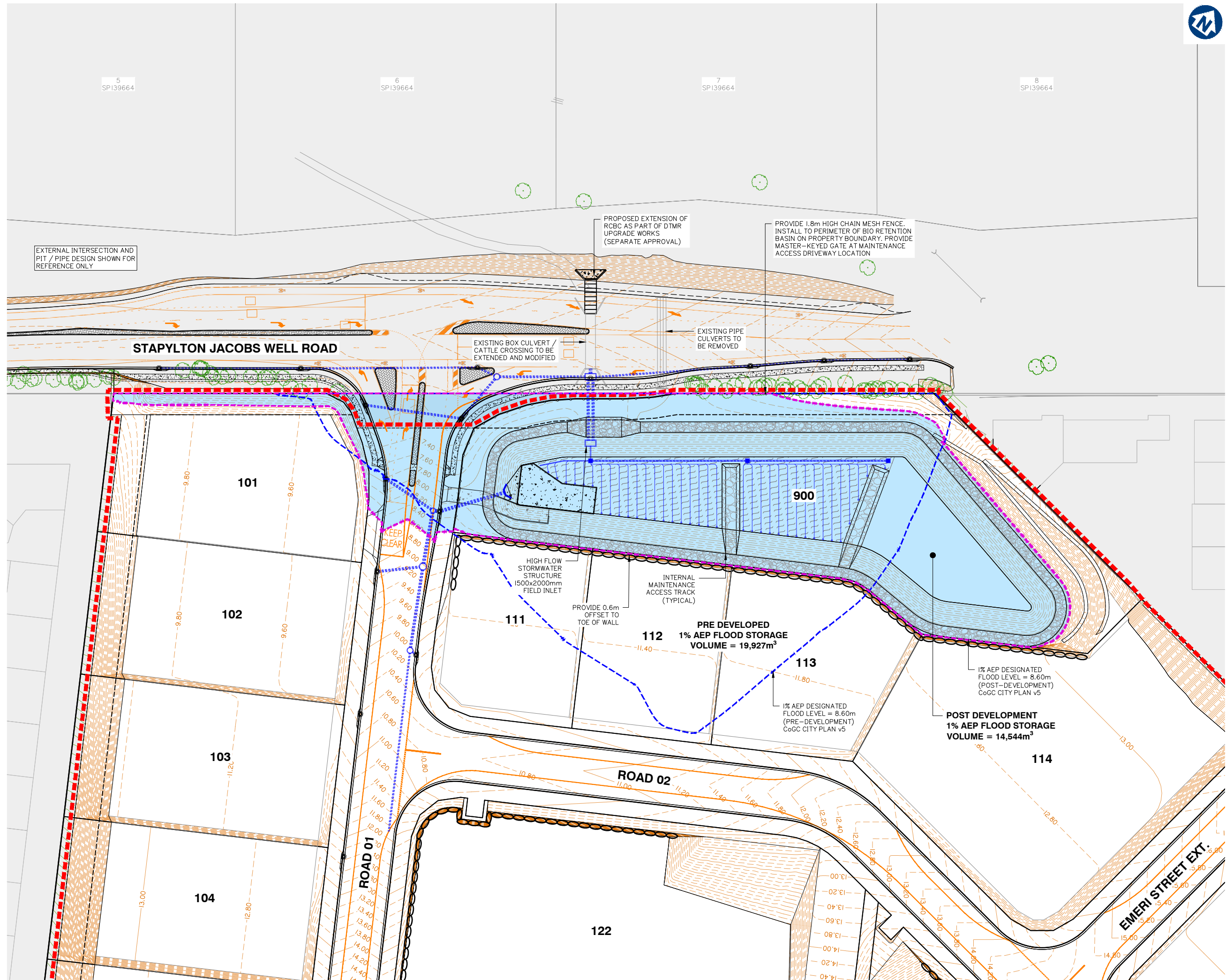
Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 467
Rev. No: B





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DRAWING TITLE
POST DEVELOPED 1%
AEP FLOOD STORAGE
VOLUME ASSESSMENT

Rev	Date	Description	By	Check
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 471

Rev. No:
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