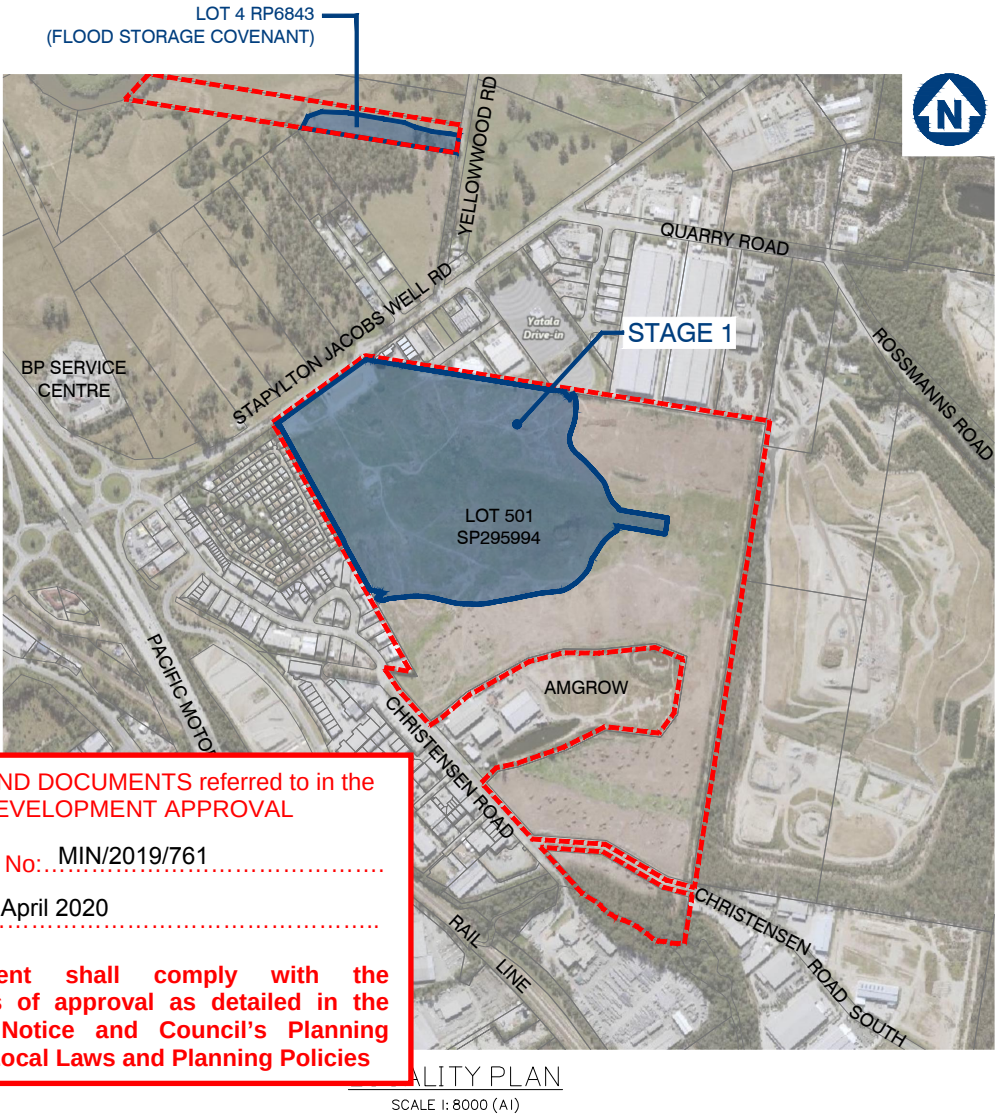


OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL M38 INDUSTRIAL PARK YATALA

DRAWING INDEX		
DRAWING No.	REV No.	SHEET TITLE
594I ENG BEI 001	D	DRAWING INDEX AND LOCALITY PLAN
594I ENG BEI 002	B	GENERAL NOTES SHEET 1 OF 2
594I ENG BEI 003	B	GENERAL NOTES SHEET 2 OF 2
594I ENG BEI 004	B	LEGEND
594I ENG BEI 005	B	KEY PLAN LAYOUT
594I ENG BEI 010	B	EXISTING SURFACE AND FEATURE PLAN
594I ENG BEI 020	C	SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 6
594I ENG BEI 021	B	SEDIMENT AND EROSION CONTROL PLAN SHEET 2 OF 6
594I ENG BEI 022	C	SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 6
594I ENG BEI 023	B	SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 6
594I ENG BEI 024	B	SEDIMENT AND EROSION CONTROL PLAN SHEET 5 OF 6
594I ENG BEI 025	B	SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 6
594I ENG BEI 026	C	CONSTRUCTION PHASE SEDIMENT BASIN 1 LAYOUT
594I ENG BEI 027	C	CONSTRUCTION PHASE SEDIMENT BASIN 1 SECTIONS
594I ENG BEI 028	C	CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT
594I ENG BEI 029	C	CONSTRUCTION PHASE SEDIMENT BASIN 2 SECTIONS
594I ENG BEI 030	B	SEDIMENT AND EROSION TYPICAL DETAILS
594I ENG BEI 050	C	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 1 OF 6
594I ENG BEI 051	C	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 2 OF 6
594I ENG BEI 052	C	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 3 OF 6
594I ENG BEI 053	C	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 4 OF 6
594I ENG BEI 054	C	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 5 OF 6
594I ENG BEI 055	C	BULK EARTHWORKS CUT & FILL LAYOUT PLAN SHEET 6 OF 6
594I ENG BEI 056	B	BULK EARTHWORKS LAYOUT PLAN AND DETAILS
594I ENG BEI 100	C	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 1 OF 6
594I ENG BEI 101	B	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 2 OF 6
594I ENG BEI 102	C	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 3 OF 6
594I ENG BEI 103	B	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 4 OF 6
594I ENG BEI 104	B	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 5 OF 6
594I ENG BEI 105	B	FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 6 OF 6
594I ENG BEI 150	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 1 OF 11
594I ENG BEI 151	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 2 OF 11
594I ENG BEI 152	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 3 OF 11
594I ENG BEI 153	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 4 OF 11
594I ENG BEI 154	C	FINISHED EARTHWORKS CROSS SECTIONS SHEET 5 OF 11
594I ENG BEI 155	B	FINISHED EARTHWORKS CROSS SECTIONS SHEET 6 OF 11
594I ENG BEI 156	B	FINISHED EARTHWORKS CROSS SECTIONS SHEET 7 OF 11
594I ENG BEI 157	B	FINISHED EARTHWORKS CROSS SECTIONS SHEET 8 OF 11
594I ENG BEI 158	B	FINISHED EARTHWORKS CROSS SECTIONS SHEET 9 OF 11
594I ENG BEI 159	B	FINISHED EARTHWORKS CROSS SECTIONS SHEET 10 OF 11
594I ENG BEI 160	B	FINISHED EARTHWORKS CROSS SECTIONS SHEET 11 OF 11
594I ENG BEI 161	B	BULK EARTHWORKS ROAD TYPICAL SECTIONS
594I ENG BEI 162	A	BULK EARTHWORKS DETAILED SECTIONS SHEET 1 OF 2
594I ENG BEI 163	A	BULK EARTHWORKS DETAILED SECTIONS SHEET 2 OF 2
594I ENG BEI 400	B	CONTROL LINE LAYOUT PLAN SHEET 1 OF 2
594I ENG BEI 401	B	CONTROL LINE LAYOUT PLAN SHEET 2 OF 2
594I ENG BEI 402	B	ROAD CONTROL LINE SETOUT TABLES SHEET 1 OF 3
594I ENG BEI 403	B	ROAD CONTROL LINE SETOUT TABLES SHEET 2 OF 3
594I ENG BEI 404	B	ROAD CONTROL LINE SETOUT TABLES SHEET 3 OF 3
594I ENG BEI 405	B	SWALE DRAIN CONTROL LINE SETOUT TABLES
594I ENG BEI 410	B	ROAD 01 LONGITUDINAL SECTION SHEET 1 OF 3
594I ENG BEI 411	B	ROAD 01 LONGITUDINAL SECTION SHEET 2 OF 3
594I ENG BEI 412	B	ROAD 01 LONGITUDINAL SECTION SHEET 3 OF 3
594I ENG BEI 413	B	ROAD 02 LONGITUDINAL SECTION SHEET 1 OF 2
594I ENG BEI 414	B	ROAD 02 LONGITUDINAL SECTION SHEET 2 OF 2

DRAWING INDEX		
DRAWING No.	REV No.	SHEET TITLE
594I ENG BEI 415	B	ROAD 03 (1) LONGITUDINAL SECTION
594I ENG BEI 416	B	ROAD 03 (2) LONGITUDINAL SECTION
594I ENG BEI 417	B	EMERI STREET EXT. LONGITUDINAL SECTION
594I ENG BEI 418	B	SWALE DRAIN A LONGITUDINAL SECTION SHEET 1 OF 2
594I ENG BEI 419	B	SWALE DRAIN A LONGITUDINAL SECTION SHEET 2 OF 2
594I ENG BEI 420	B	SWALE DRAIN B LONGITUDINAL SECTION
594I ENG BEI 421	B	BOULDER RETAINING WALL CONTROL LINE LAYOUT PLAN
594I ENG BEI 422	B	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 1 OF 6
594I ENG BEI 423	B	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 2 OF 6
594I ENG BEI 424	B	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 3 OF 6
594I ENG BEI 425	B	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 4 OF 6
594I ENG BEI 426	B	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 5 OF 6
594I ENG BEI 427	B	BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 6 OF 6
594I ENG BEI 428	B	BOULDER RETAINING WALL SETOUT TABLES SHEET 1 OF 1
594I ENG BEI 430	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11
594I ENG BEI 431	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11
594I ENG BEI 432	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11
594I ENG BEI 433	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11
594I ENG BEI 434	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11
594I ENG BEI 435	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11
594I ENG BEI 436	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11
594I ENG BEI 437	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11
594I ENG BEI 438	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11
594I ENG BEI 439	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11
594I ENG BEI 440	B	ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11
594I ENG BEI 441	B	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 6
594I ENG BEI 442	B	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 6
594I ENG BEI 443	B	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 6
594I ENG BEI 444	B	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 6
594I ENG BEI 445	B	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 6
594I ENG BEI 446	B	ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 6
594I ENG BEI 447	B	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3
594I ENG BEI 448	B	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3
594I ENG BEI 449	B	ROAD 03 (1) BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3
594I ENG BEI 450	B	ROAD 03 (2) BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2
594I ENG BEI 451	B	ROAD 03 (2) BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2
594I ENG BEI 452	B	EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 2
594I ENG BEI 453	B	EMERI STREET EXT. BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2
594I ENG BEI 454	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11
594I ENG BEI 455	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11
594I ENG BEI 456	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11
594I ENG BEI 457	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11
594I ENG BEI 458	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11
594I ENG BEI 459	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11
594I ENG BEI 460	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11
594I ENG BEI 461	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11
594I ENG BEI 462	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 9 OF 11
594I ENG BEI 463	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11
594I ENG BEI 464	B	SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11
594I ENG BEI 465	B	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 3
594I ENG BEI 466	B	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3
594I ENG BEI 467	B	SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3
594I ENG BEI 470	B	PRE DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT
594I ENG BEI 471	D	POST DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT
594I ENG BEI 570	C	OPERATIONAL PHASE BIORETENTION BASIN SHEET 1 OF 2
594I ENG BEI 571	B	OPERATIONAL PHASE BIORETENTION BASIN SHEET 2 OF 2



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

CLIENT



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

DWG No. 594I ENG BEI 001 – REV D

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 SEEDDED 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 SEEDDED, 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).



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No:.....MIN/2019/761

Dated:27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



planning | environment | landscape | engineering | survey
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:	-

ISSUED FOR APPROVAL
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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
ISSUR	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: 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.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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

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

	BUND
	POWER POLE
	POWER POLE WITH LIGHT
	LIGHT POLE
	STAY POLE
	LIGHT POLE WITH EXTENSION
	ELECTRICAL INSPECTION BOX
	ELECTRICAL POLE
	ELECTRICAL TURRET
	TRAFFIC SIGNAL
	MAIN ROADS PIT
	TANGENT POINT
	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

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

G:\Projects\5941\ENGINEERING\Acad\BE1 CGL\Current\5941 ENG BE1 002-004.dwg



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:	-

ISSUED FOR APPROVAL
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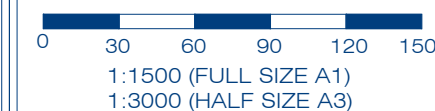
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

KEY PLAN LAYOUT

[illegible]

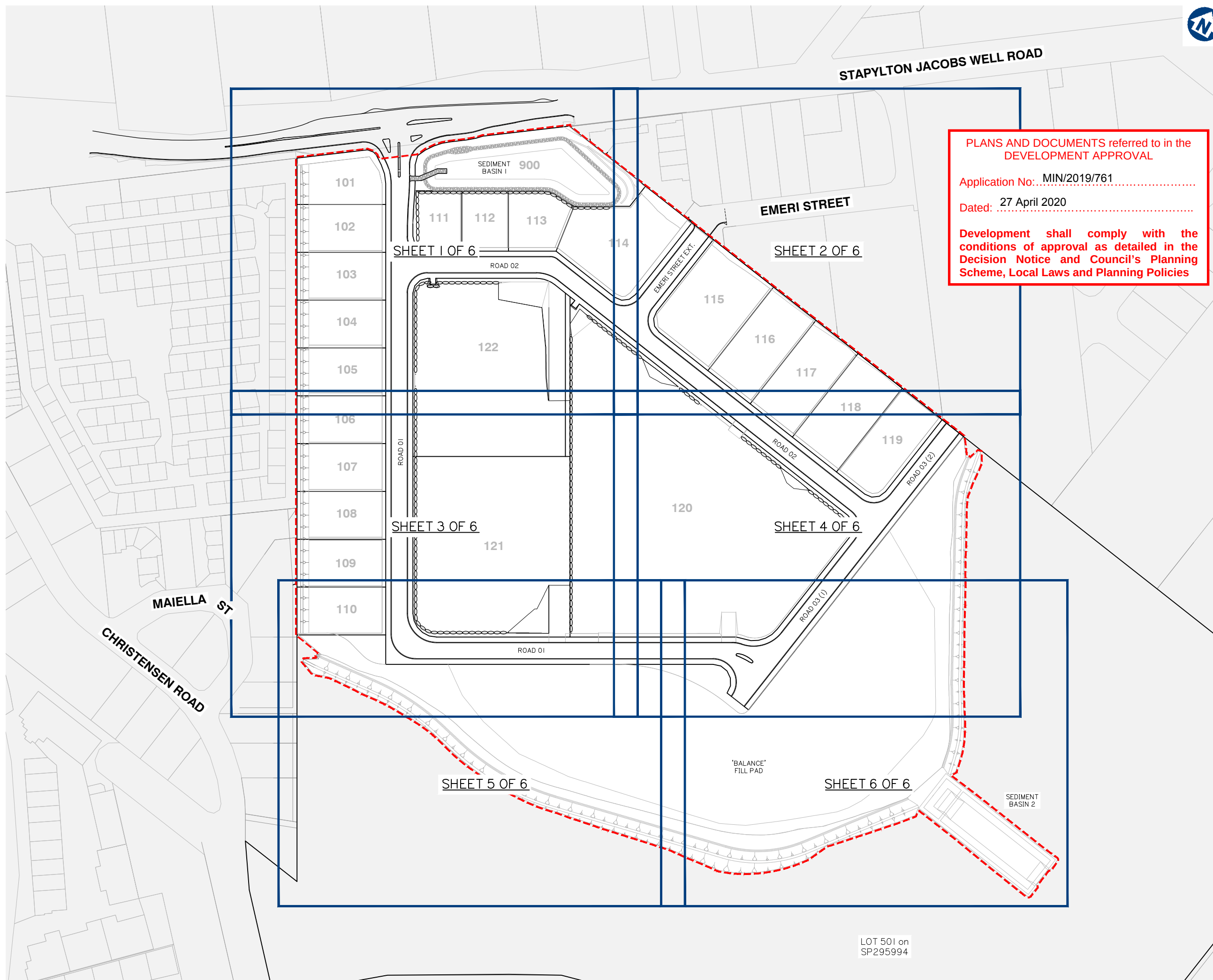
SCALE IN METRES



Scale at A1:	1:1500
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:	Rev. No:
5941 ENG BE1 005	B

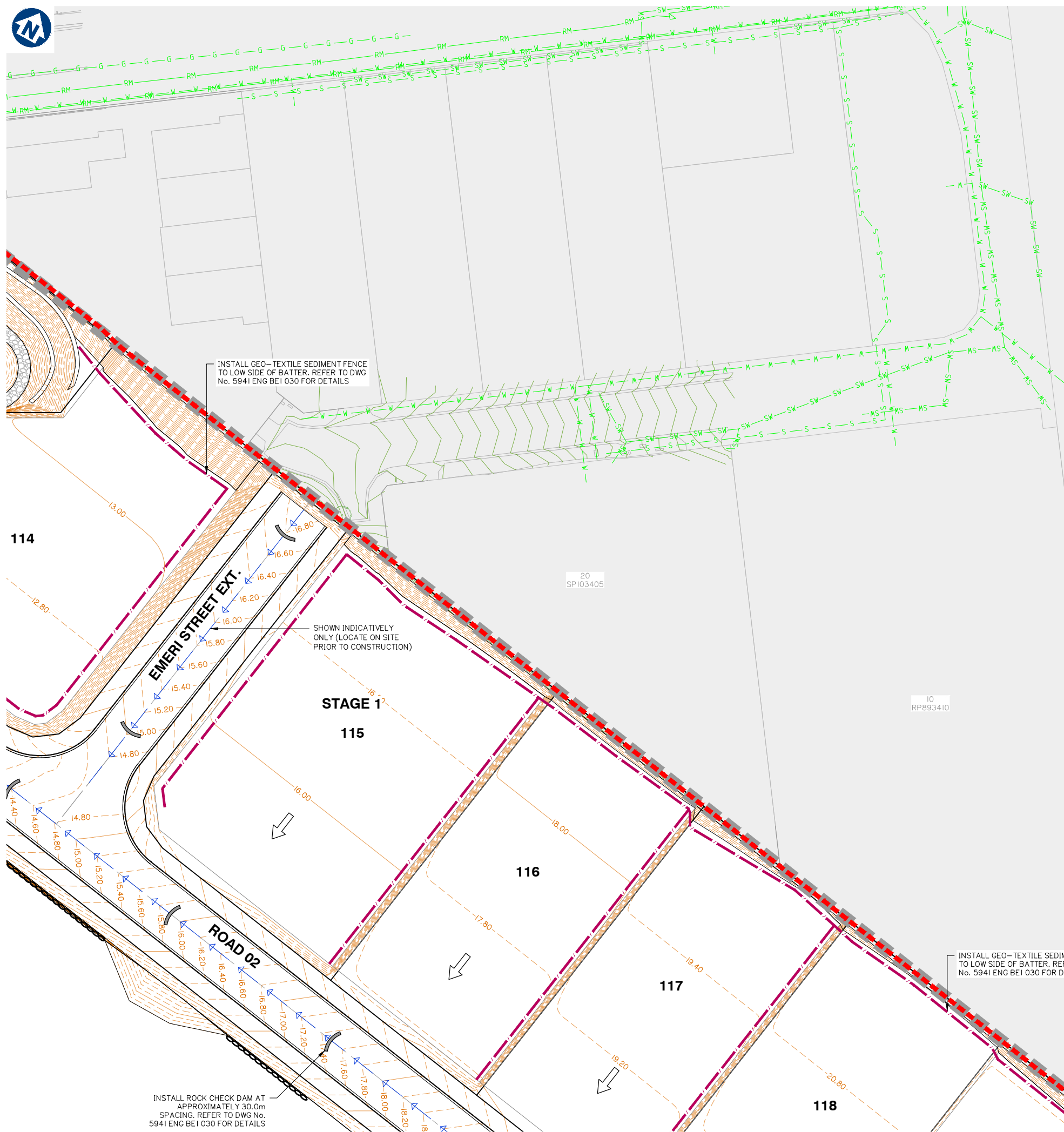


KEY PLAN LAYOUT



B	20-02-2020	INFORMATION REQUEST RESPONSE	IG
A	20-12-2019	ORIGINAL ISSUE	JRG
sue	Date	Description	DPR





1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
4. CONTRACTOR TO CONSTRUCT CATCHMENT /VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

B	20-02-2020	INFORMATION REQUEST RESPONSE	JG	MO	
A	20-12-2019	ORIGINAL ISSUE	JRG	MGM	
Issue	Date	Description	DRN	CHI	

Rev. No:
B



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

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

STAGE 1

120

INSTALL GEO-TEXTILE SEDIMENT FENCE
TO LOW SIDE OF BATTER. REFER TO DWG
No. 594I ENG BEI 030 FOR DETAILS

INSTALL ROCK CHECK DAM AT
APPROXIMATELY 30.0m
SPACING. REFER TO DWG No.
5941 ENG BEI 030 FOR DETAILS

SHOWN INDICATIVELY
ONLY (LOCATE ON SITE
PRIOR TO CONSTRUCTION)

NOTES

1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
4. CONTRACTOR TO CONSTRUCT CATCHMENT /VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.

KEY PLAN

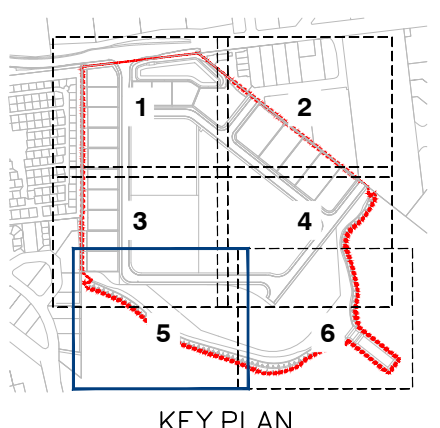
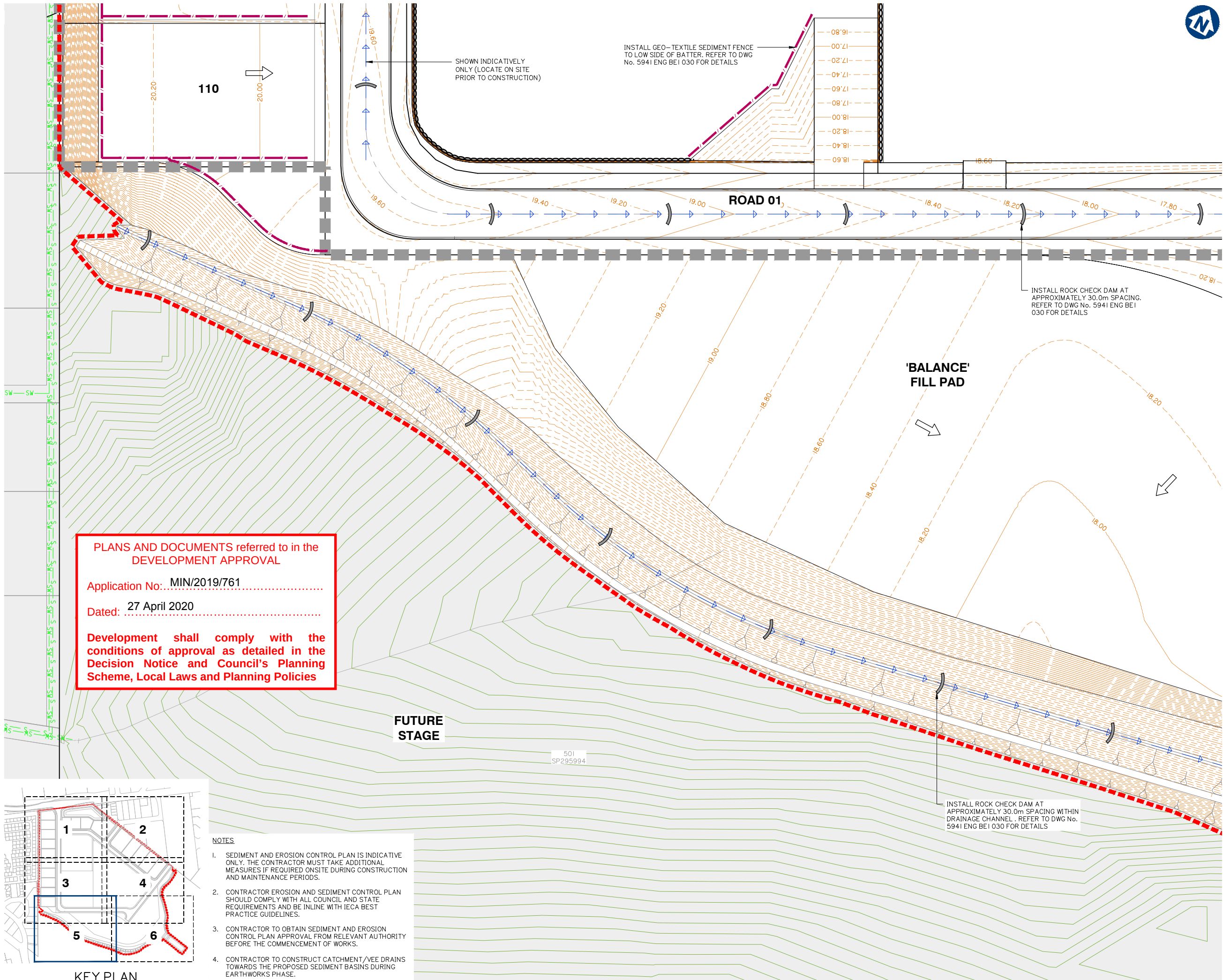
SEDIMENT AND EROSION CONTROL PLAN SHEET 4 OF 6



SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 6

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

Rev. No:
B



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

- NOTES
1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
 2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
 3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
 4. CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.

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
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 5 OF 6

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

SCALE IN METRES



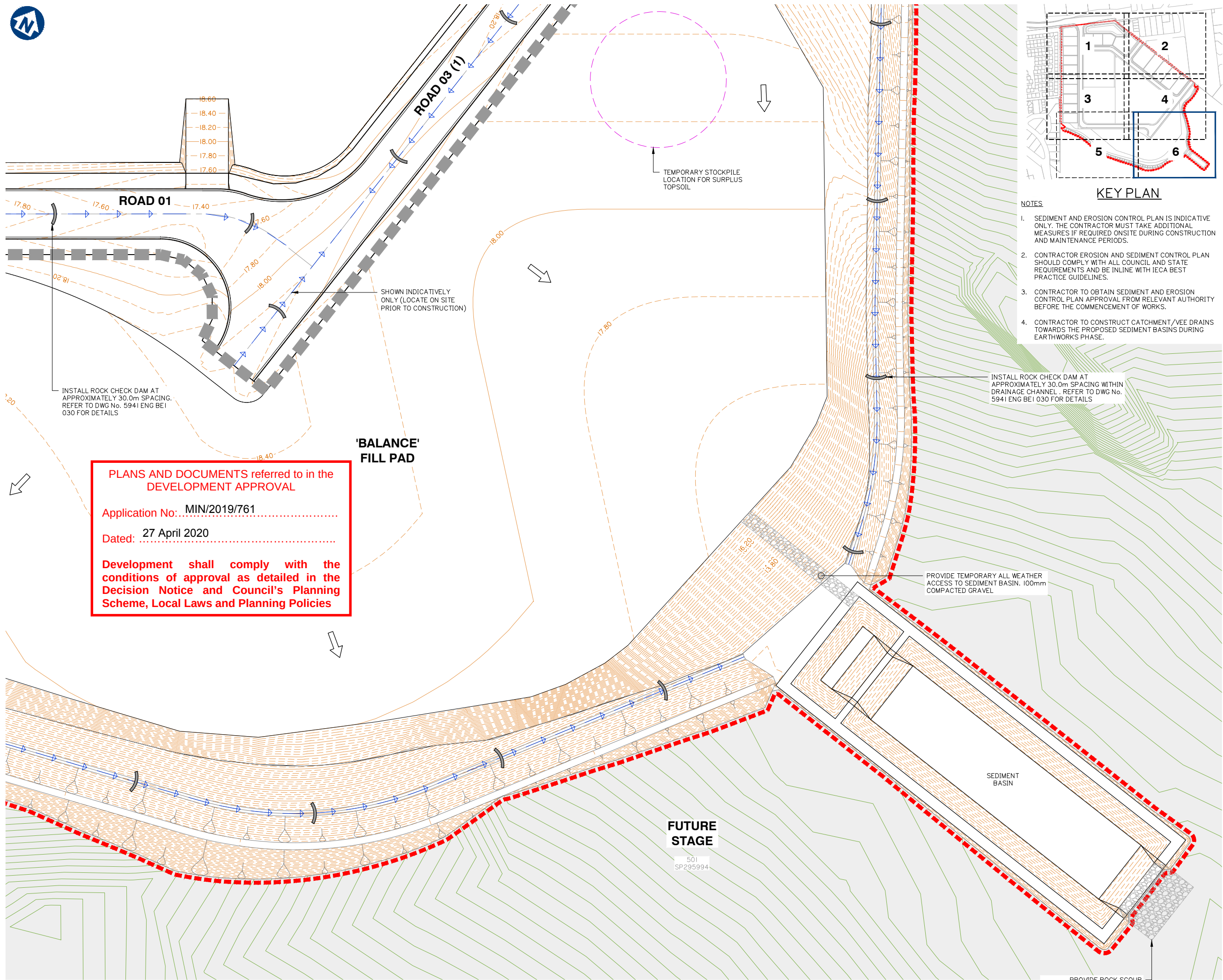
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1:1000 (HALF SIZE A3)

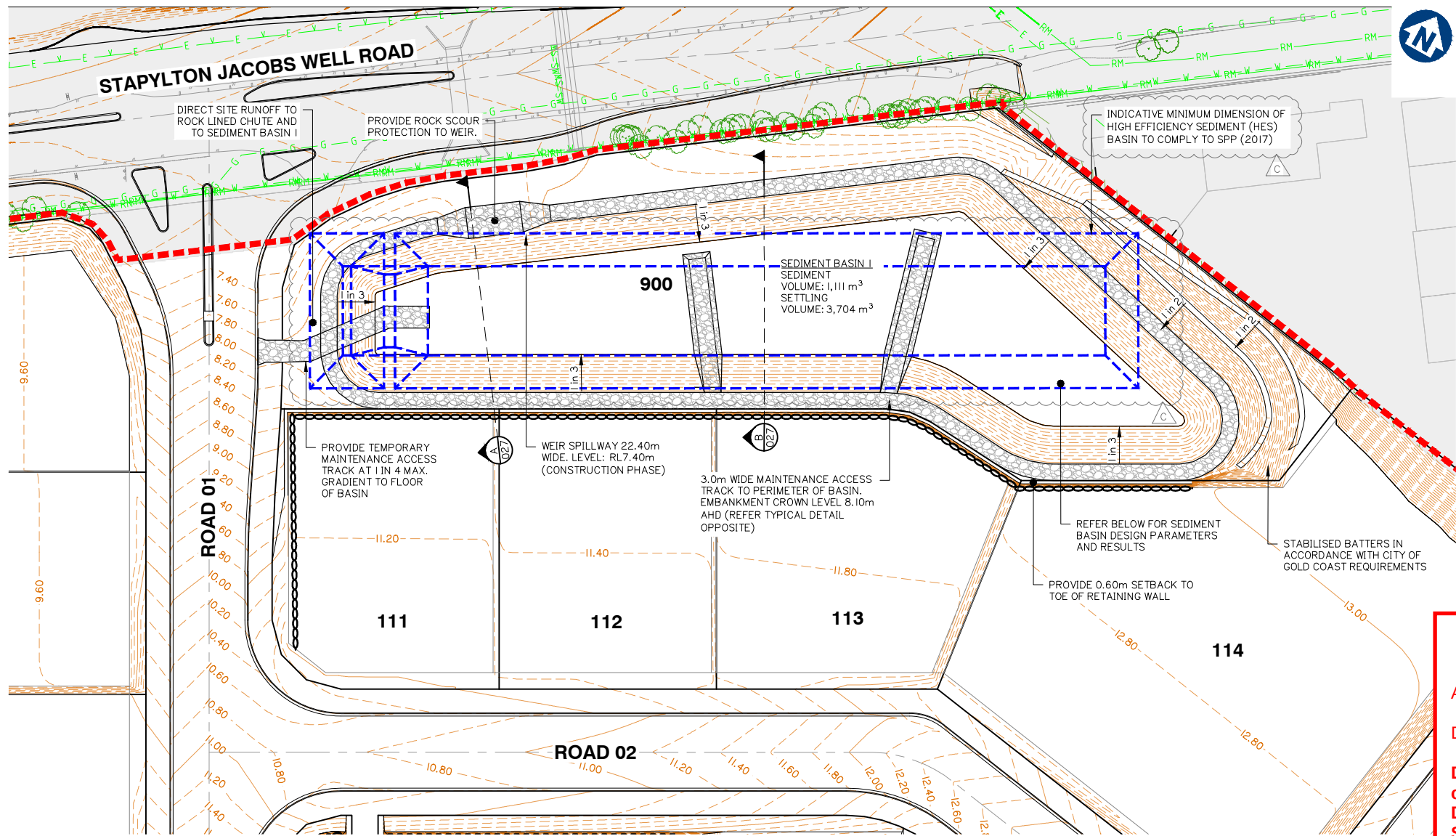
Scale at A1: 1:500

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

Drawing No:
5941 ENG BE1 024

Rev. No:
B





- NOTES:
- ALL ALLOTMENTS TO GRADE TOWARDS THE ROAD AT MINIMUM 1:150 (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.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

CONSTRUCTION PHASE SEDIMENT BASIN I LAYOUT

SCALE 1:500 (A1)

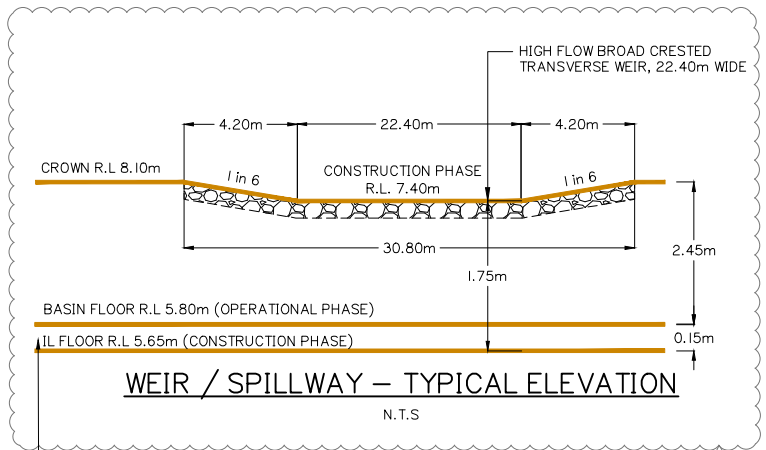
SEDIMENT BASIN DESIGN							
BASIN ID	SELECT DURATION OF CATCHMENT DISTURBANCE	IS DEWATERING OF TRENCHES REQUIRED?	EQUIPMENT LEASE OR PURCHASE?	SELECT CATCHMENT SCALE	DO ALL FLOWS ENTER BASIN AT SINGLE POINT?	BASIN TYPE	DOSING EQUIPMENT
No. 1	> 12 MONTHS	NO	LEASE	> 5Ha	NO	TYPE A	IFOD-RAIN

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. 1	15.071	1	4.53	20	11150	1.3	4.8	9	9	3704	1512	VOLUME

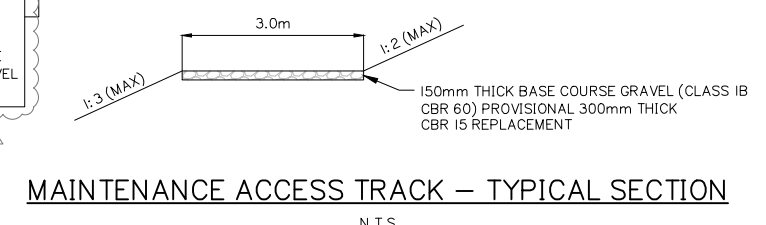
BASIN ID	SETTLING ZONE		SCOUR VELOCITY	FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETTling ZONE VOLUME (V_s)	ACTUAL SETTling ZONE AREA (A_s)		DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
No. 1	3704	2827	0.009	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)
No. 1	3704	2827	0.009	0.22	370	1111	0.47	3	28.2	135.4	2.00

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)	(m³/s)	(m)	(m)	(m)	(m)
No. 1	> 12 MONTHS	1: 50	0.85	0.98	20.00	160.00	6.55	0.25	30.80	7.40	8.10

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. 1	5185.2	135.4	28.2	2.00	763.40	13.5	28.2	2.00	30.8	7.40	8.10	7.60



IF FURTHER SEDIMENT STORAGE VOLUME IS REQUIRED, CONTRACTOR SHALL SEEK THE APPROVAL OF THE SUPERINTENDENT TO EXCAVATE TO SUBGRADE LEVEL OF THE FUTURE BIO-RETENTION BASIN FILTER LAYER (TO A LEVEL NOT LOWER THAN RL 4.80m)



CONSTRUCTION PHASE SEDIMENT BASIN I LAYOUT

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
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT

C	12-03-2020	INFORMATION REQUEST RESPONSE	SK	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



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: 12-03-2020

Drawing No:
5941 ENG BE1 026

Rev. No:
C



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
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Contour Interval: -
PSM: -
RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
SECTIONS

C	12-03-2020	INFORMATION REQUEST RESPONSE	SK	MG	
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:	12-03-2020

Drawing No:
5941 ENG BE1 027

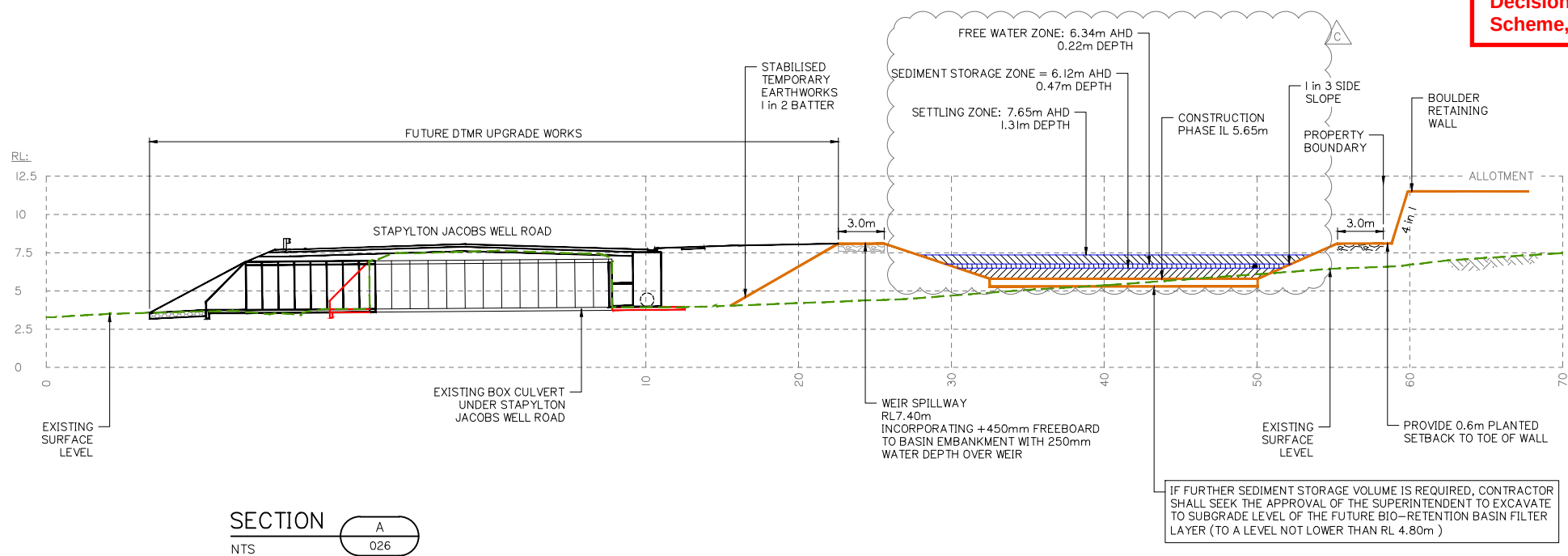
Rev. No:
C

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

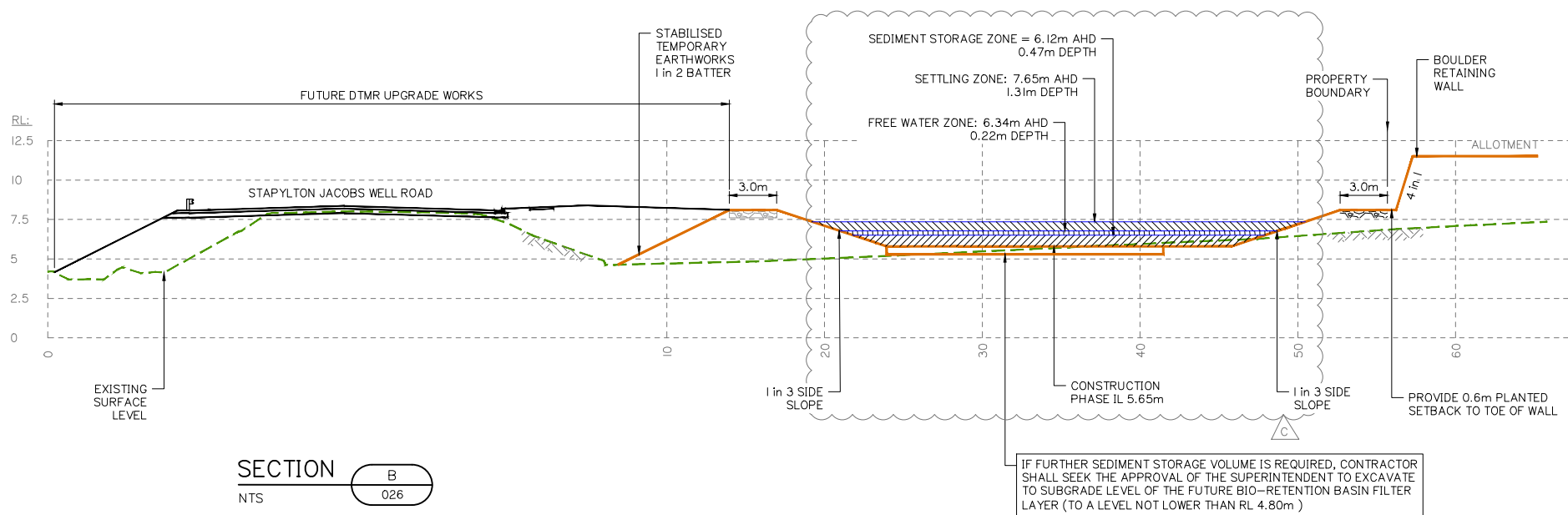
Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

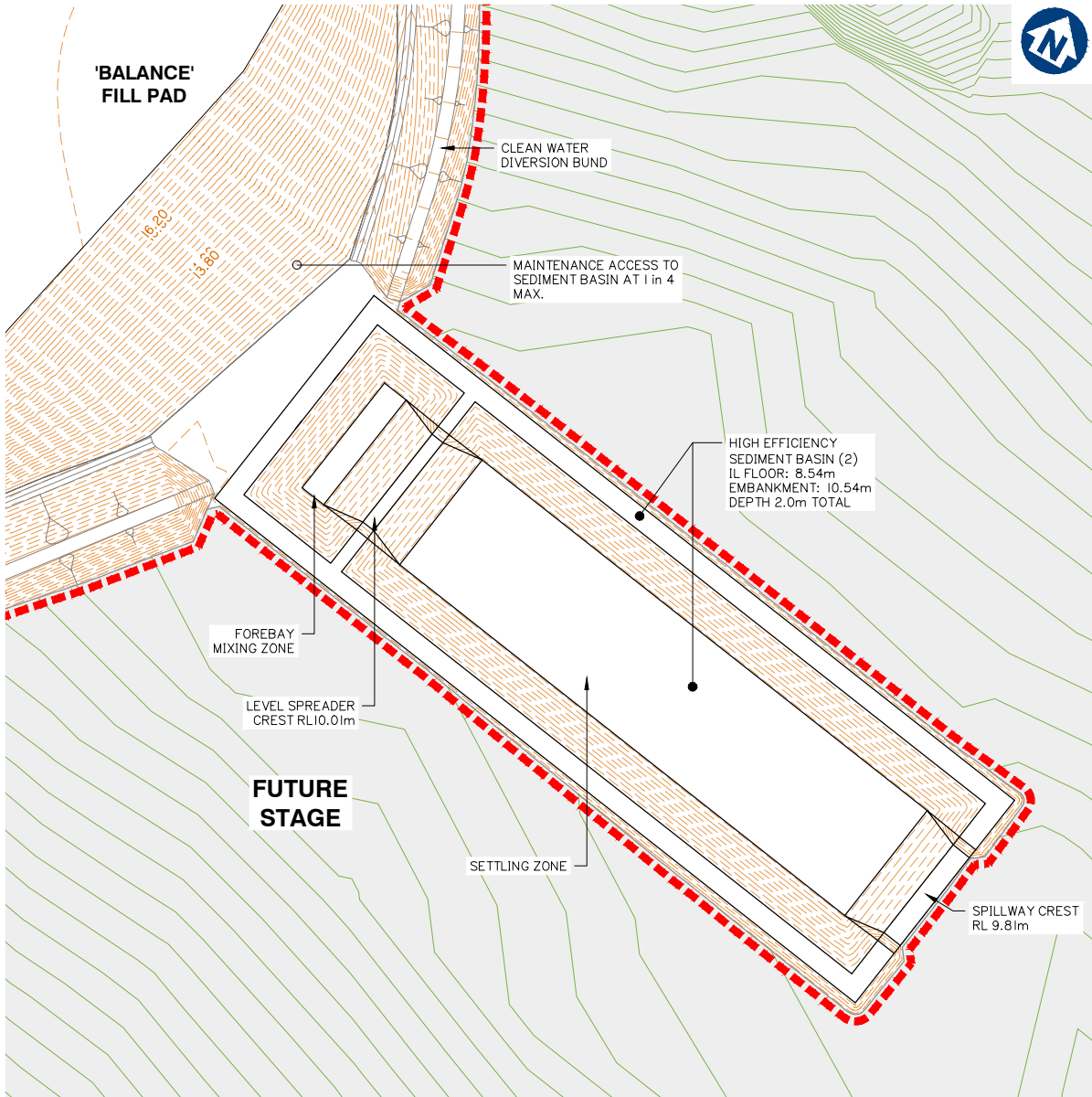


SECTION A
NTS



SECTION B
NTS

CONSTRUCTION PHASE SEDIMENT BASIN 1 SECTIONS



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 SETT LING ZONE VOLUME (Min V_s)	MIN SETT LING 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 SETT LING ZONE VOLUME (V_s)	ACTUAL SETT LING 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

BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C_{10}	C	t_c	SPILLWAY					
						I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m³/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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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
CONSTRUCTION PHASE
SEDIMENT BASIN 2
LAYOUT

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

SCALE IN METRES

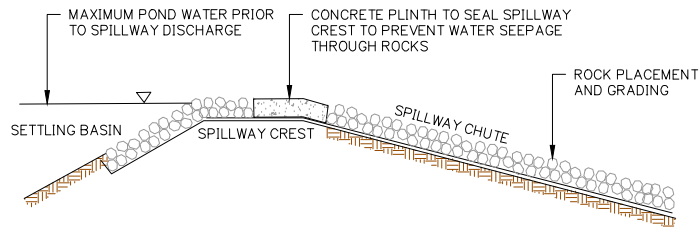


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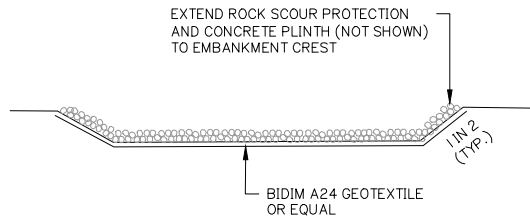
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 028

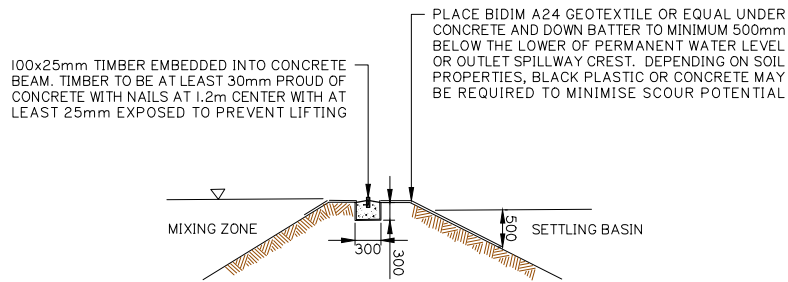
Rev. No: B



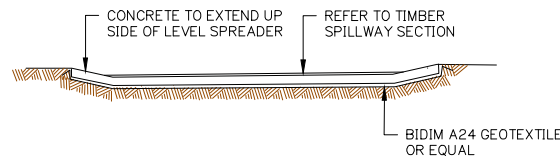
OUTLET SPILLWAY DETAILS
TYPICAL CROSS SECTION
NOT TO SCALE



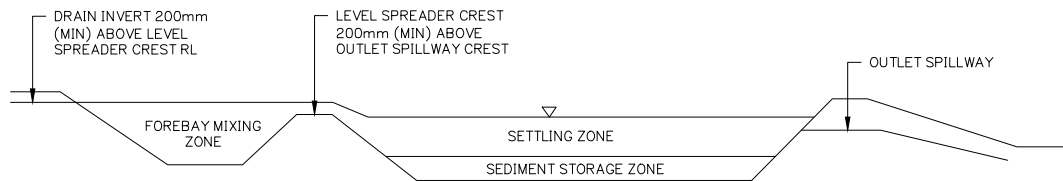
OUTLET SPILLWAY DETAILS
TYPICAL LONGITUDINAL SECTION
NOT TO SCALE



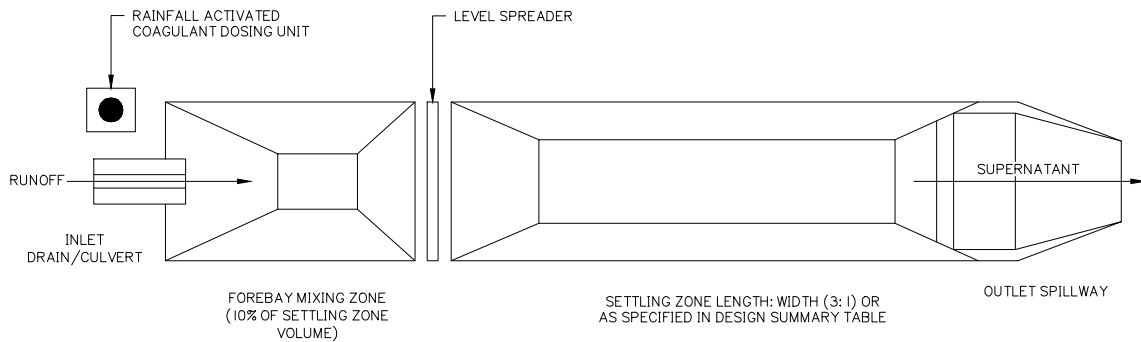
LEVEL SPREADER DETAILS
TYPICAL CROSS SECTION
NOT TO SCALE



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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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:

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Local Authority: CITY OF GOLD COAST
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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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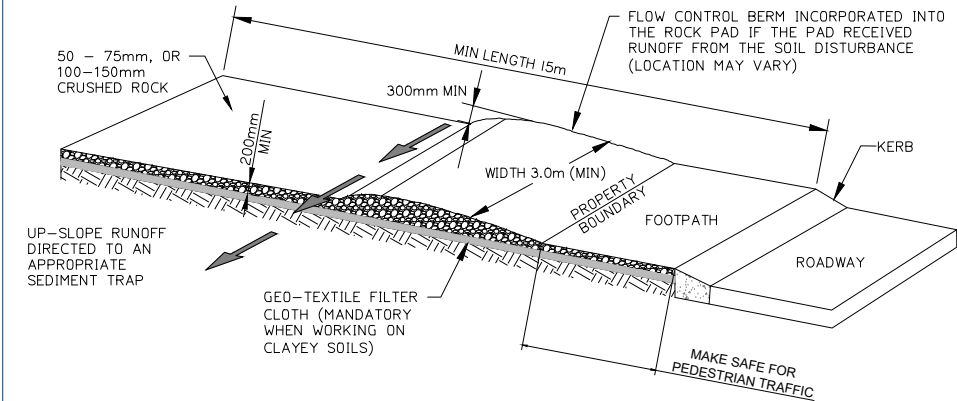
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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

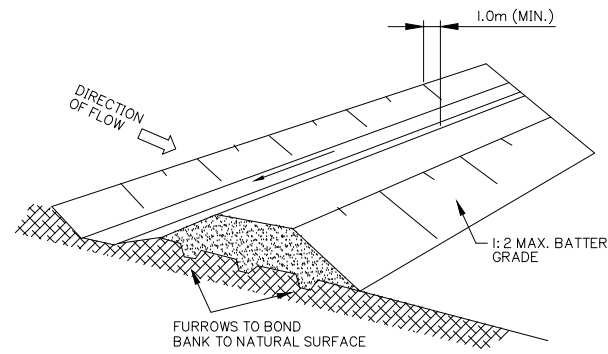
Drawing No: 5941 ENG BE1 029 Rev. No: B

CONSTRUCTION PHASE SEDIMENT BASIN 2 SECTIONS



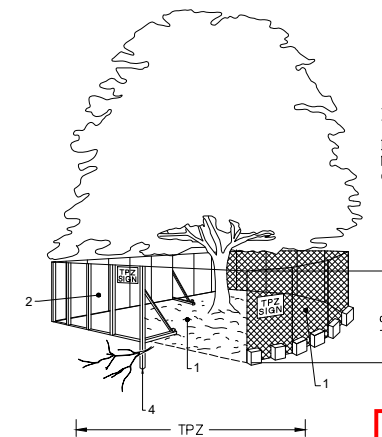
ENTRY/EXIT PAD FOR CONSTRUCTION SITE

NOT TO SCALE



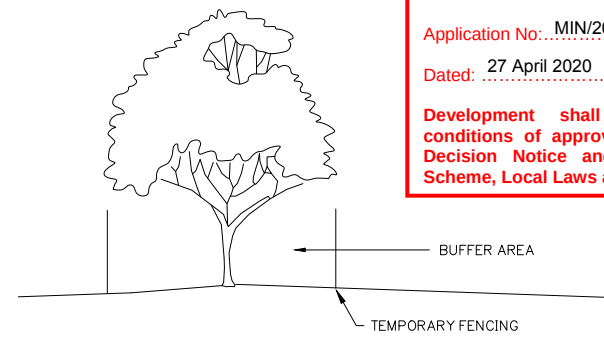
DIVERSION DRAIN

NOT TO SCALE



TREE PROTECTION

IN ACCORDANCE WITH VEGETATION MANAGEMENT PLAN AND RELEVANT CONDITIONS OF APPROVAL



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

M38 INDUSTRIAL PARK YATALA

Address: STAPYLTON JACOBS WELL RD & 31 YELLOWWOOD RD, STAPYLTON QLD 4207

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

SEDIMENT AND EROSION TYPICAL DETAILS

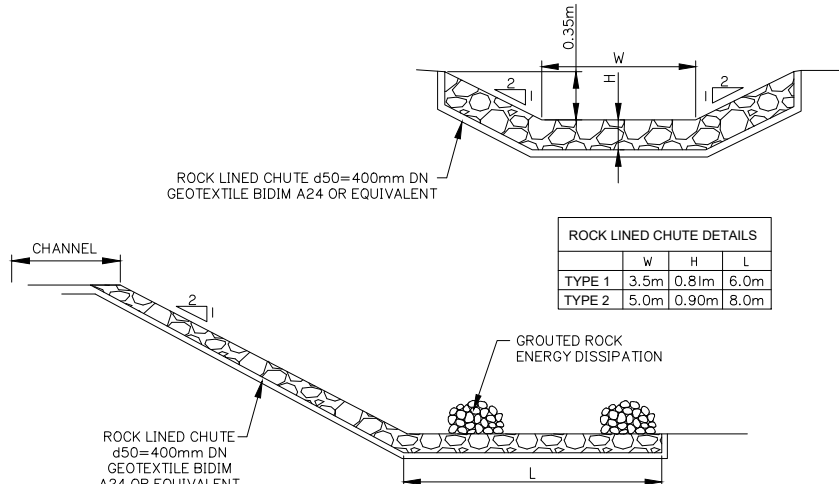
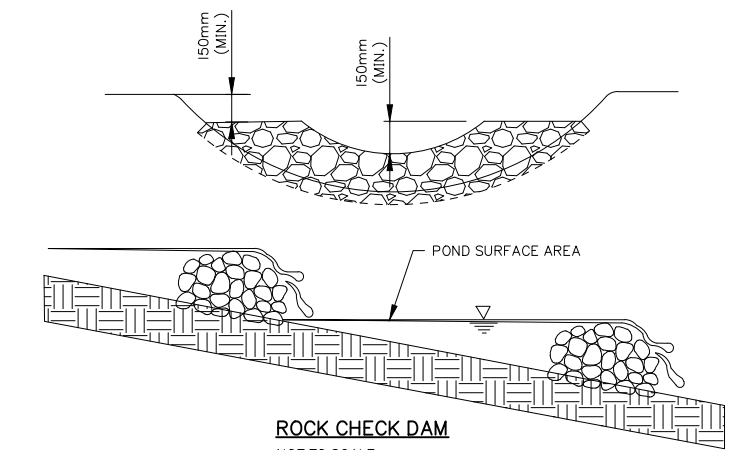
Rev	Date	Description	IG	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

NOT APPLICABLE

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

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



ROCK LINED CHUTE

NOT TO SCALE

FENCING AS PER AS: 4970

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

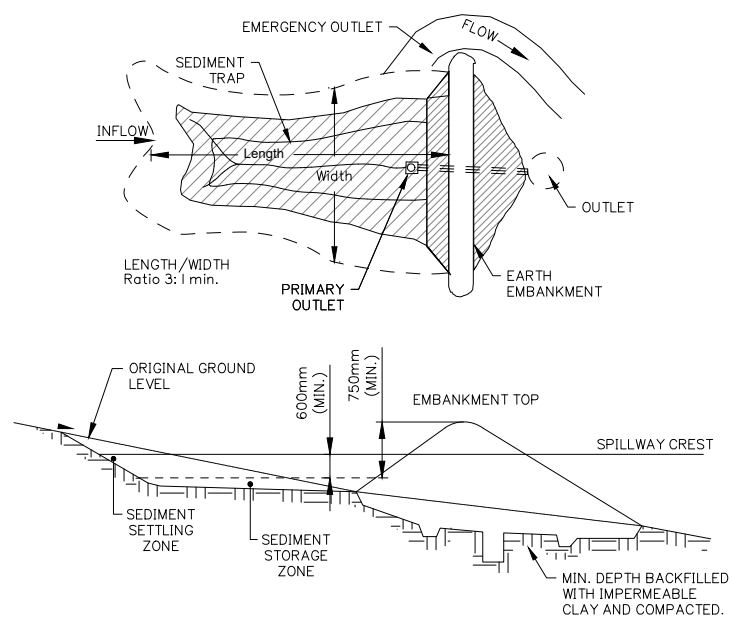
DETERMINING THE TPZ

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.

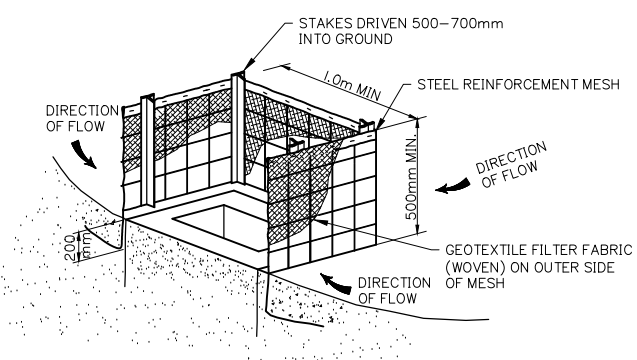
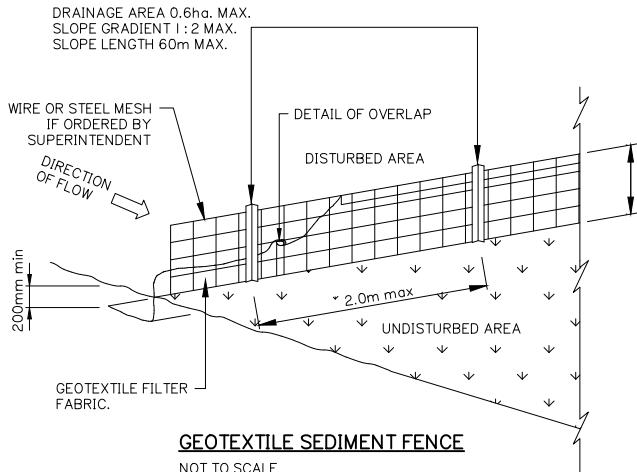
PROTECTIVE FENCING

NOT TO SCALE



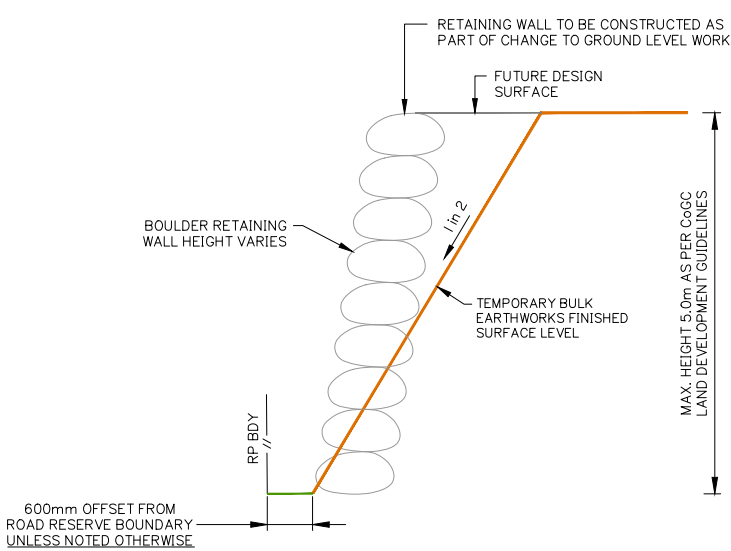
TYPICAL SEDIMENT BASIN

NOT TO SCALE



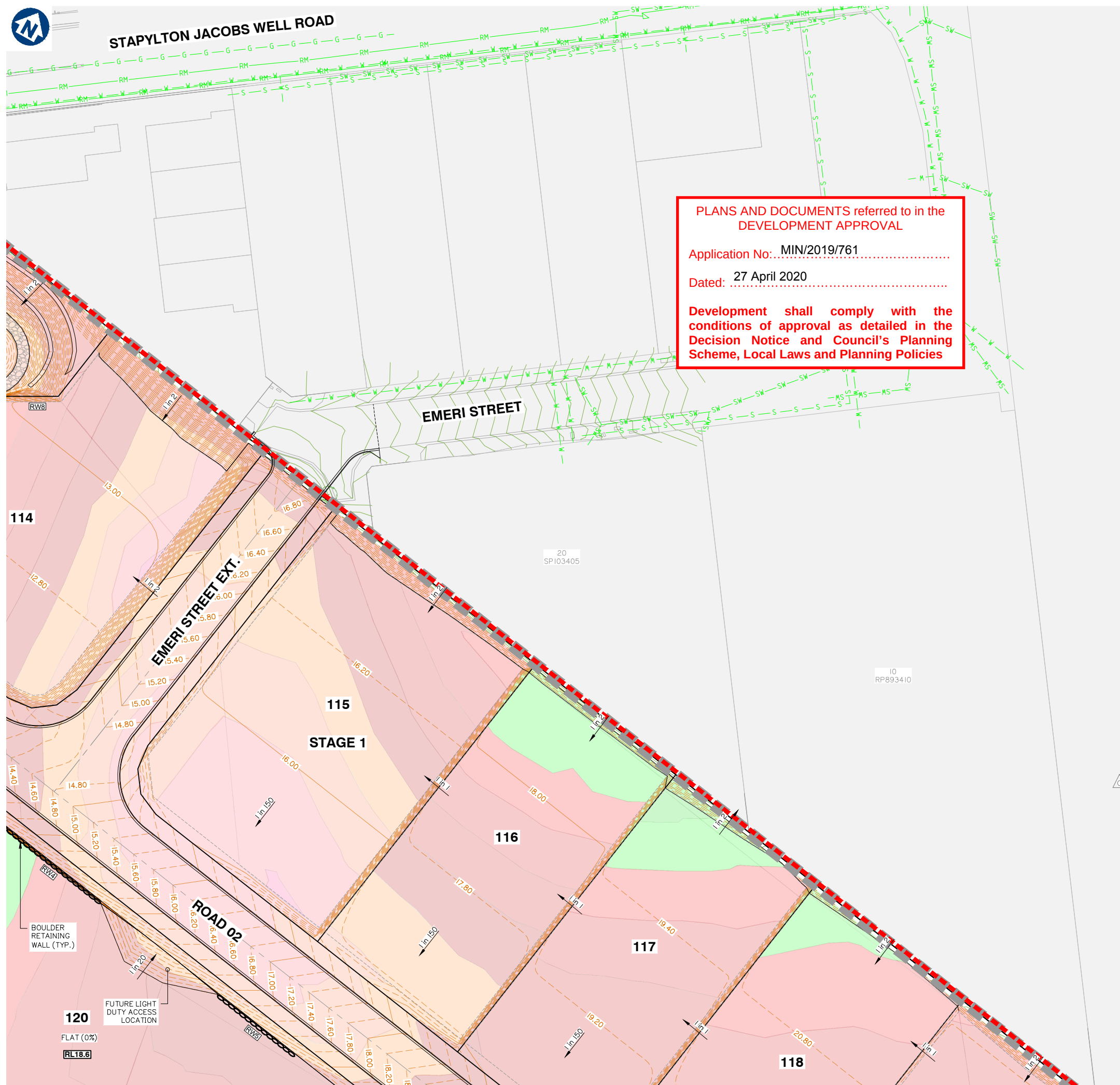
STORMWATER INLET - SEDIMENT TRAP

NOTE: FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY

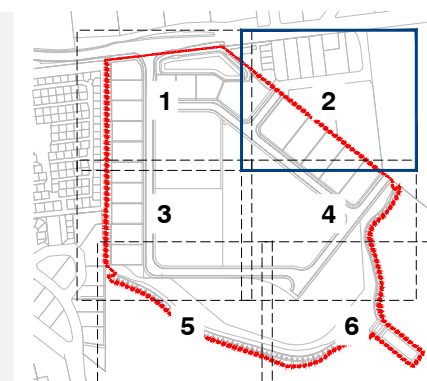


TEMPORARY BATTER LOCATION FOR RETAINING WALLS

NOT TO SCALE



Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



KEY PLAN

-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	432,384 m ³
FILL	430,407 m ³
TOTAL BALANCE	1,977 m ³
EXCESS OF CUT OVER FILL	1,977 m ³

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 –.440m IN CUT AREAS AND –.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 / TIRED



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planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 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
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
2 OF 6

[illegible]

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 051	C



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)
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5. RETAINING WALLS DO NOT EXCEED 5.0m IN HEIGHT, AND ARE NOT BENCHED / TIERED

KEY PLAN

Client:



**FRASERS
PROPERTY**

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

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
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
4 OF 6

C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
LIE	Date	Description	DRN	CHK

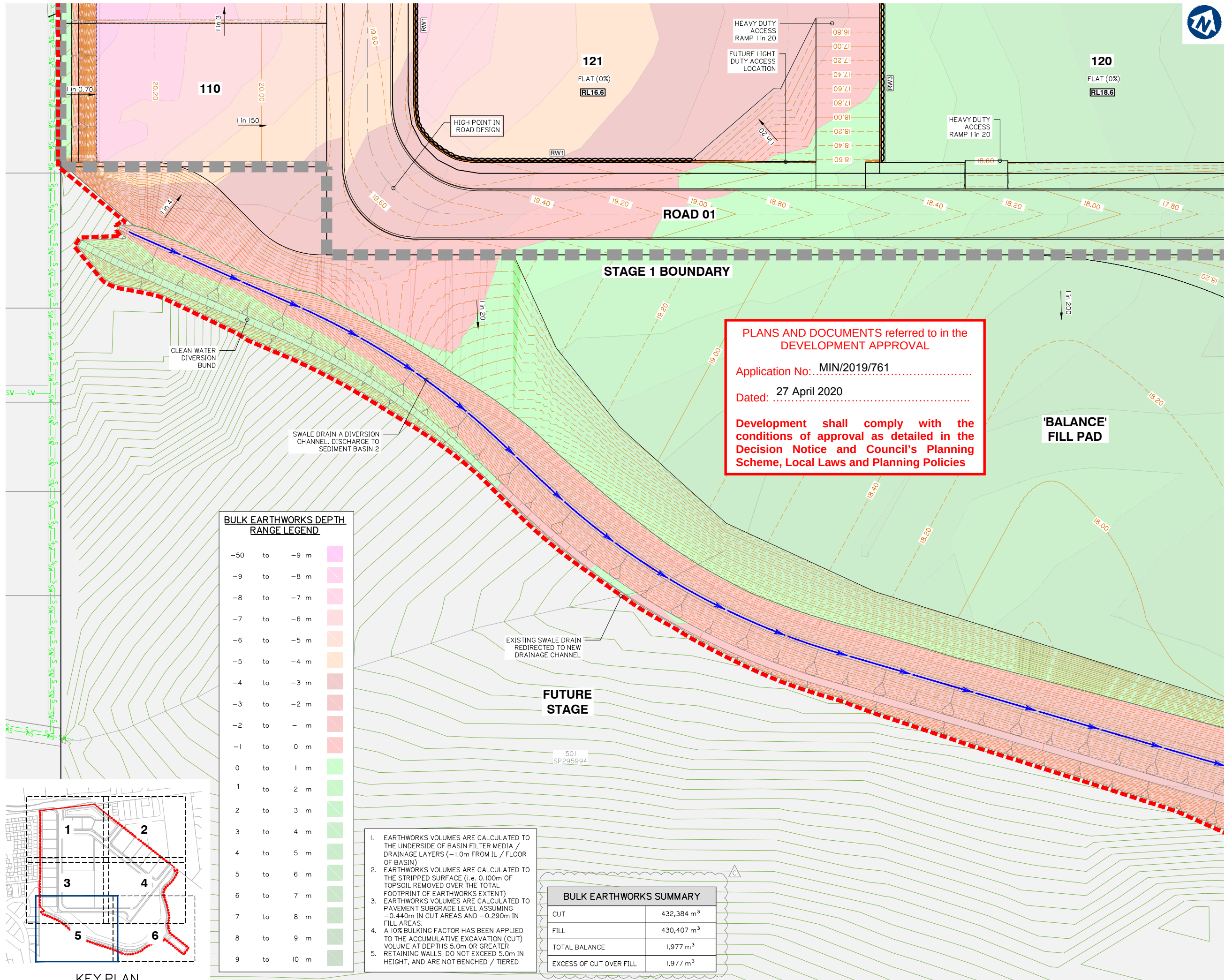
SCALE IN METRES

0 10 20 30 40 50

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 053	C



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
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
5 OF 6

C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	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



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 054

Rev. No:
C



120
FLAT (0%)
RL18.6

18.60
18.40
18.20
18.00
17.80
17.60

ROAD 01

ROAD 03 (1)

STAGE 1 BOUNDARY

'BALANCE'
FILL PAD

STAGE 1

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No... MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

SWALE DRAIN A DIVERSION
CHANNEL, DISCHARGE TO
SEDIMENT BASIN 2

FUTURE
STAGE

501
SP295994

1. EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF BASIN FILTER MEDIA / DRAINAGE LAYERS (-1.0m FROM IL / FLOOR OF BASIN)
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5. RETAINING WALLS DO NOT EXCEED 5.0m IN HEIGHT, AND ARE NOT BENCHED / TIERED

BULK EARTHWORKS SUMMARY

CUT	432,384 m ³
FILL	430,407 m ³
TOTAL BALANCE	1,977 m ³
EXCESS OF CUT OVER FILL	1,977 m ³

SWALE DRAIN B DIVERSION
CHANNEL, DISCHARGE TO
SEDIMENT BASIN 2

CLEAN WATER
DIVERSION BUND

MAINTENANCE ACCESS TO
SEDIMENT BASIN AT 1 in 4
MAX.

HIGH EFFICIENCY
SEDIMENT BASIN (2)
IL FLOOR: 8.54m
EMBANKMENT: 10.54m
DEPTH 2.0m TOTAL
1 in 3 SIDE SLOPES

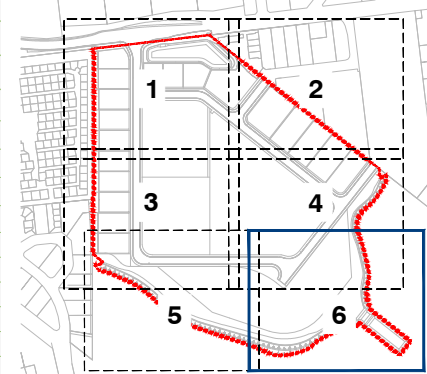
FOREBAY
MIXING ZONE

LEVEL SPREADER
CREST RL10.01m

SETTLING ZONE

SPILLWAY
CREST
RL 9.81m

ALIGN OUTLET TO
EXISTING GULLY



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

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
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
6 OF 6

C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	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



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

Scale at A1: 1:500

Designed: IG

Drafted: JRG

Approved: MG

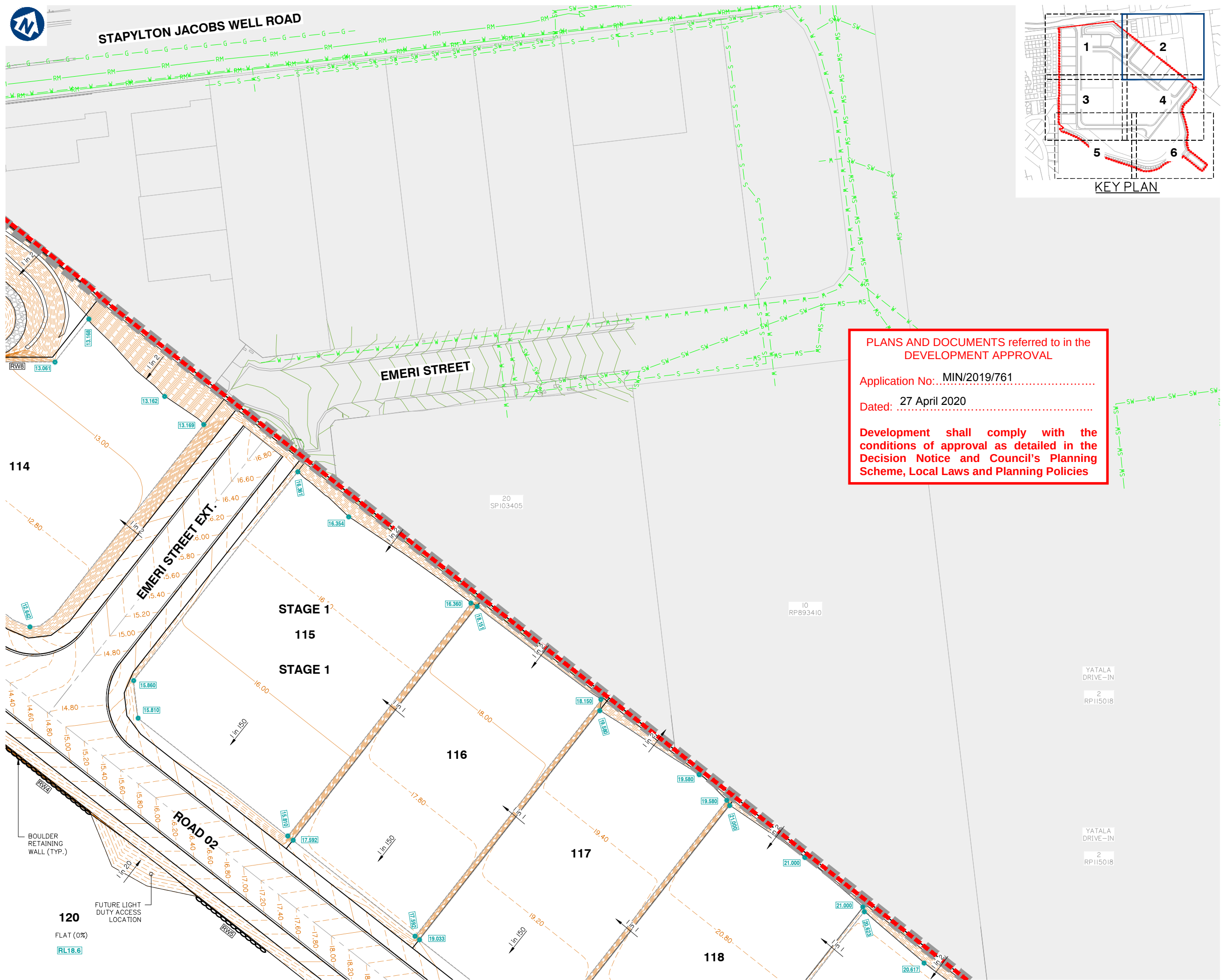
RPEQ: 16939

Signed:

Date: 20-02-2020

Drawing No:
5941 ENG BE1 055

Rev. No:
C



Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

FLAT (0%)

FUTURE STAGE

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

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

B A Issue	20-02-2020 20-12-2019	INFORMATION REQUEST RESPONSE ORIGINAL ISSUE Description	IQ JRG DRN	MO MO 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 103	B



FINISHED BULK EARTHWORKS SURFACE LEVEL PLAN SHEET 6 OF 6



Client:



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 6 OF 6

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

SCALE IN METRES



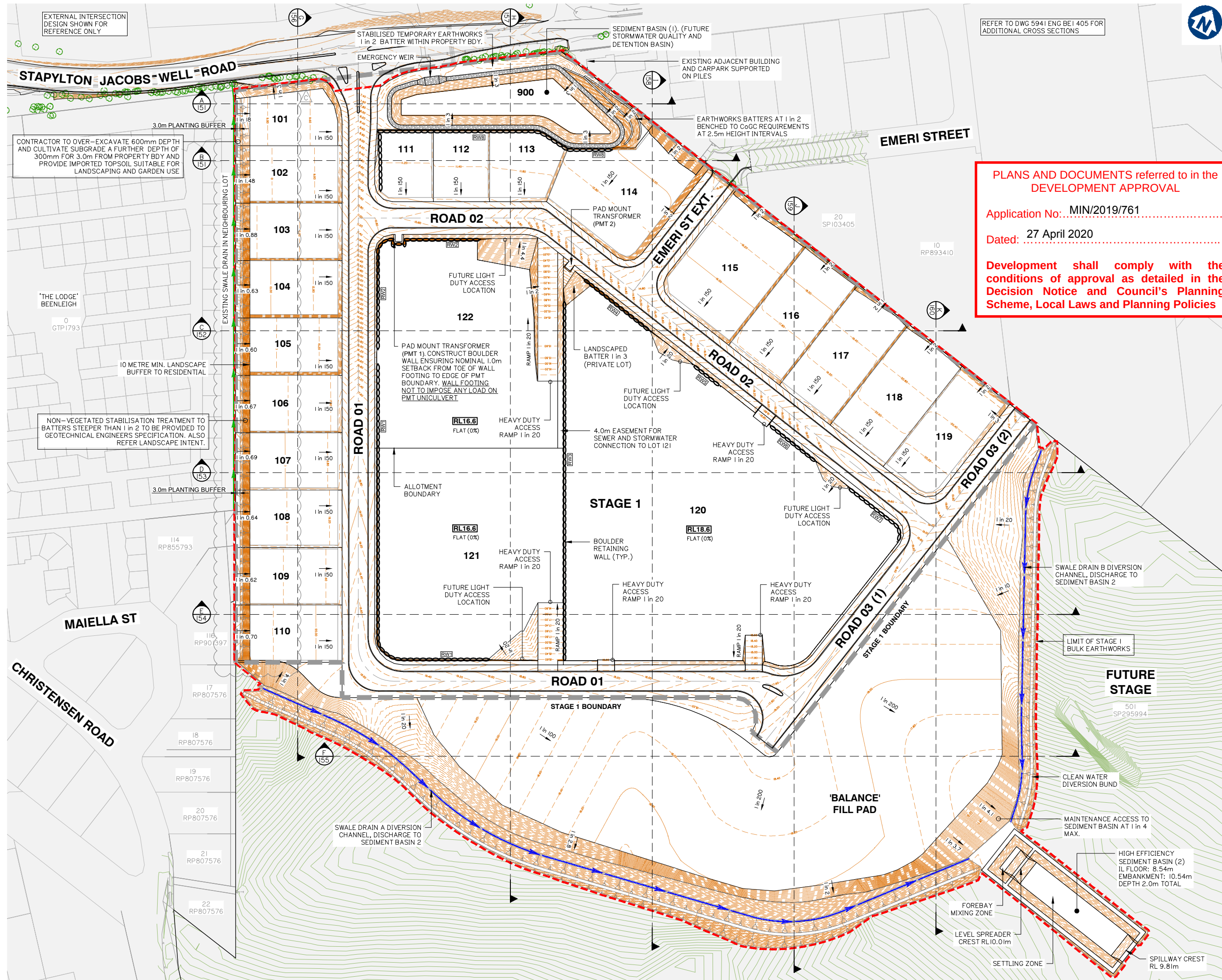
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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

Drawing No:
5941 ENG BE1 105

Rev. No:
B



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
1 OF 11

C		09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	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
0 25 50 75 100 125
1:1250 (FULL SIZE A1)
1:2500 (HALE SIZE A3)

Scale at A1:	1:1250
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA
20-02-2020	INFORMATION REQUEST RESPONSE	IG
20-12-2019	ORIGINAL ISSUE	JRG
Date	Description	DRN

Scale 1:500 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

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

rafted:	JRG
---------	-----

Approved:	MG
-----------	----

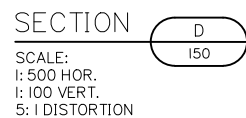
PEQ:	16939
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Signed:	
---------	--

ate:	20-02-2020
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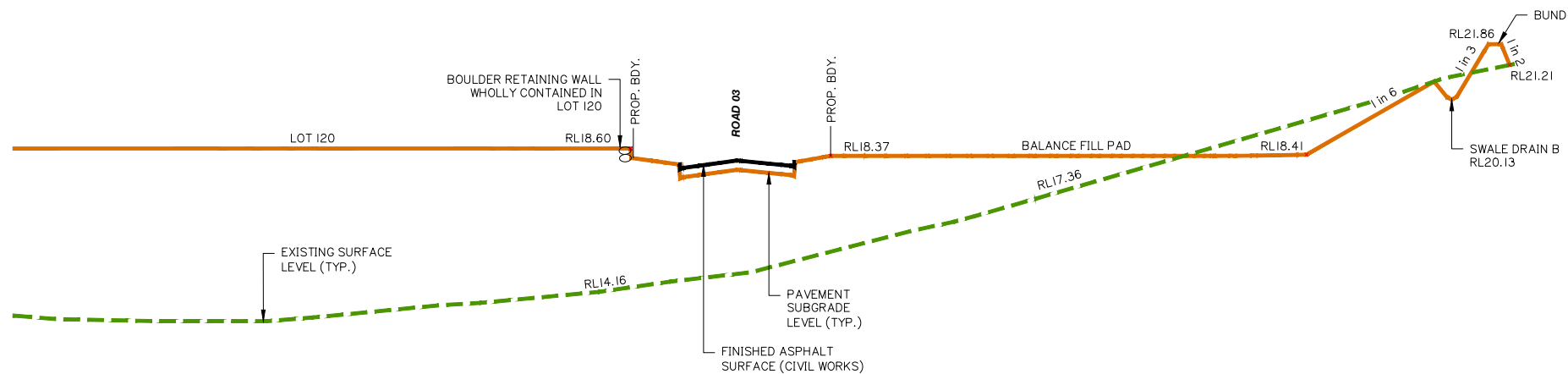
Drawing No:	Rev. N
041 ENG BE1 151	C





Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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



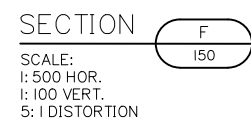
PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: MIN/2019/761

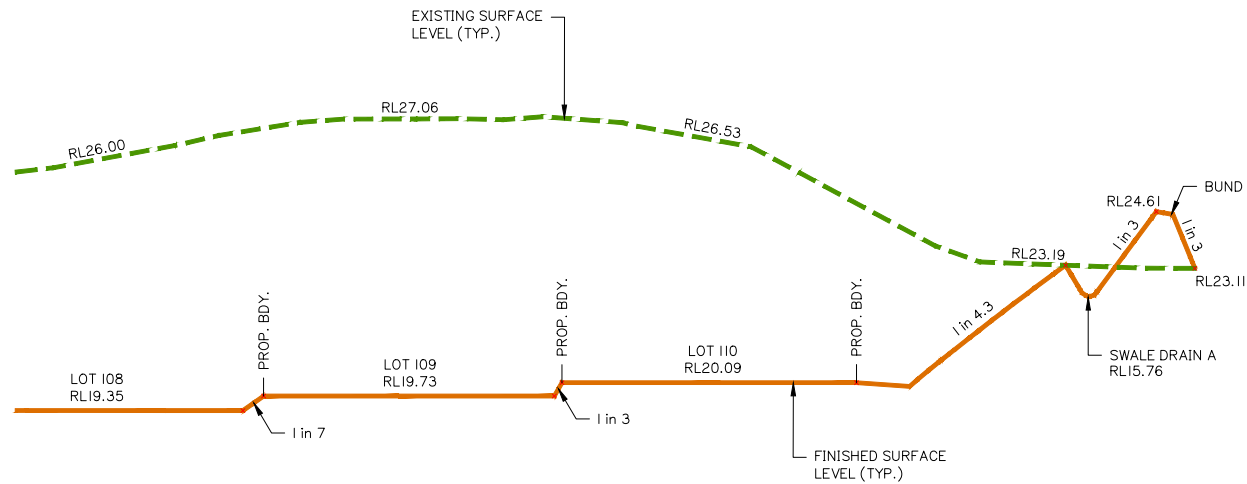
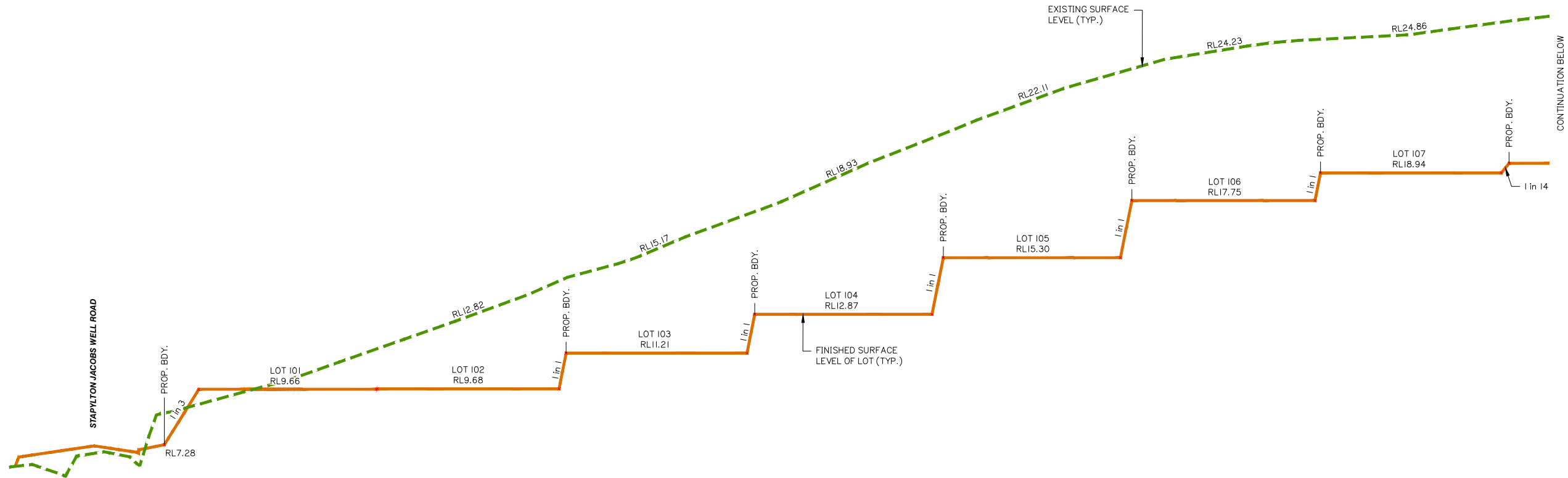
Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

Drawing No:	Rev. M
5941 ENG BE1 154	C



Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



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

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

Client:

FRASERS
PROPERTY

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 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



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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 Meridian: -
 Contour Interval: -
 DSM: -
 L: -

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
8 OF 11

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

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
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crafted:	JRG
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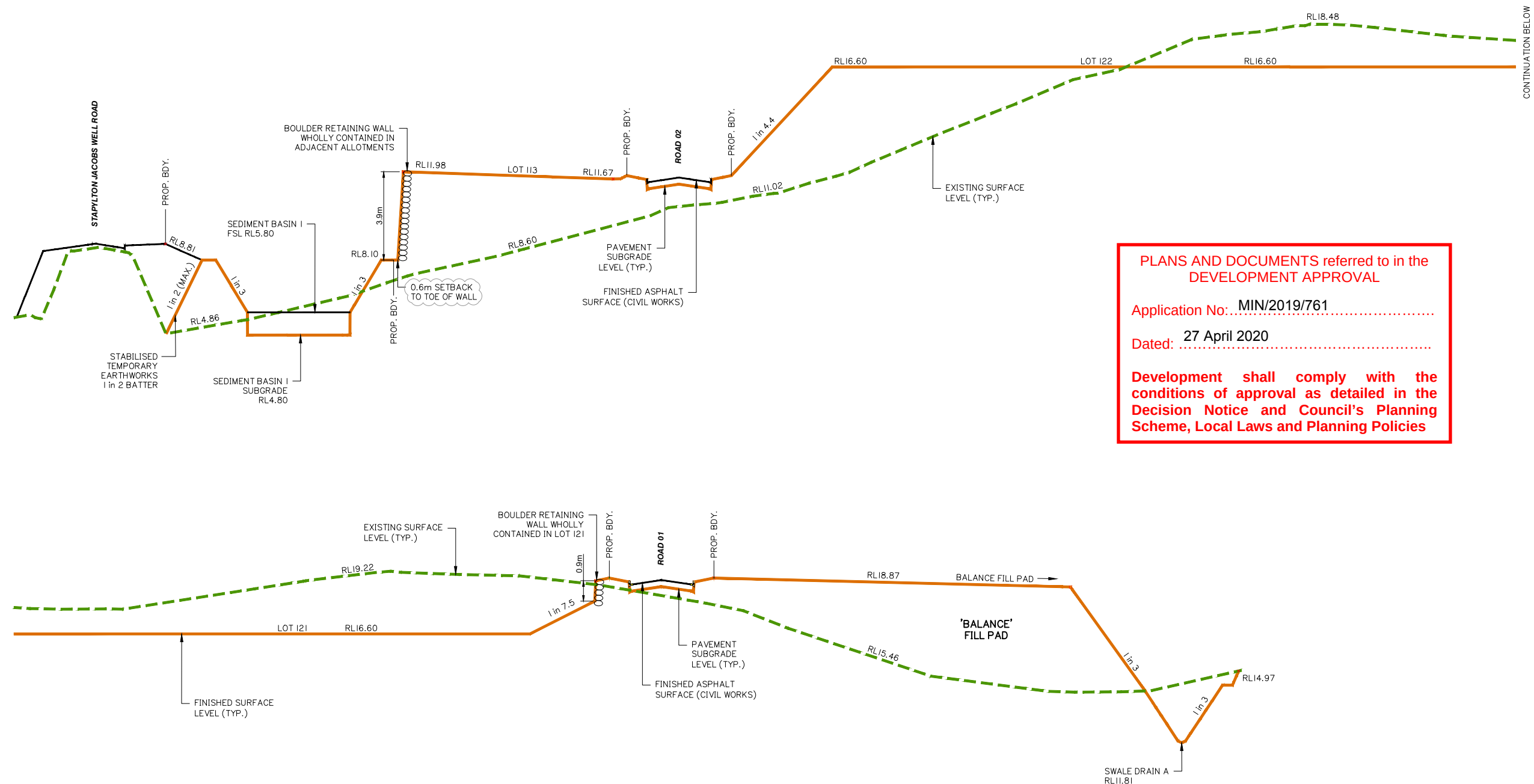
Approved:	MG
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PEQ:	16939
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Signed: 

ate:	20-02-2020
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Drawing No. 041 ENG BE1 157 Rev. N B



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

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

FINISHED EARTHWORKS CROSS SECTIONS SHEET 8 OF 11



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:	-
RI :	-

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
9 OF 11

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

Scale 1:500 - Lengths are in Metres.

HOZ:

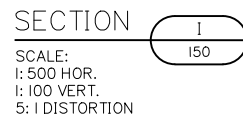
Scale 1:100 - Lengths are in Metres.

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 158	B



Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
10 OF 11

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

Scale 1:500 - Lengths are in Metres.

HOZ:

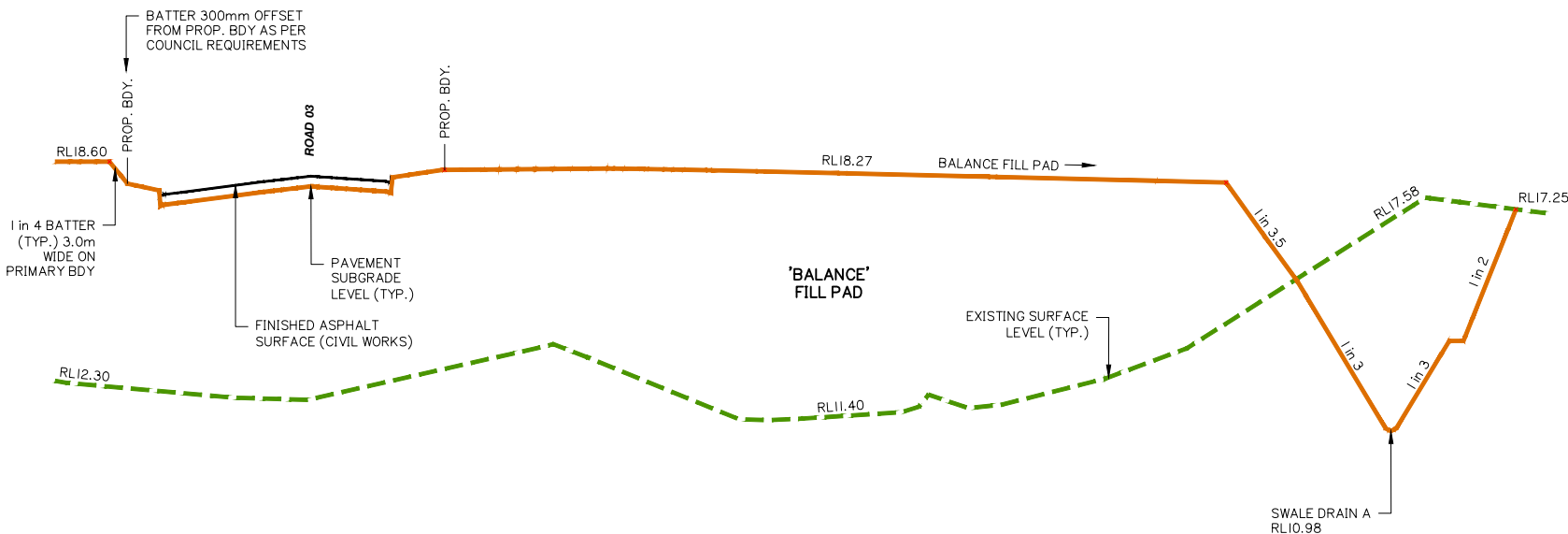
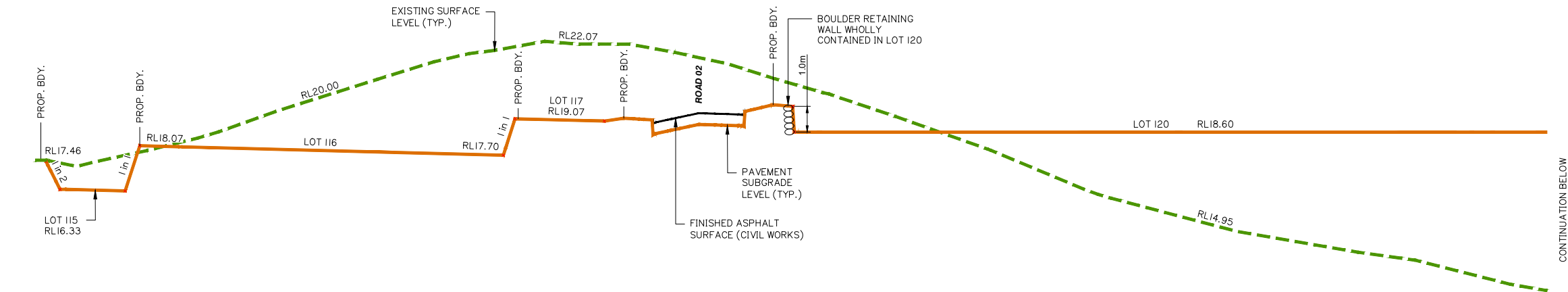
Scale 1:100 - Lengths are in Metres.

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 159	B



SECTION J
150

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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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



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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

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

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DRAWING TITLE

BULK EARTHWORKS ROAD TYPICAL SECTIONS

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

NOT APPLICABLE

Scale at A1: NOT APPLICABLE

Designed:	IG
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Drafted:	JRG
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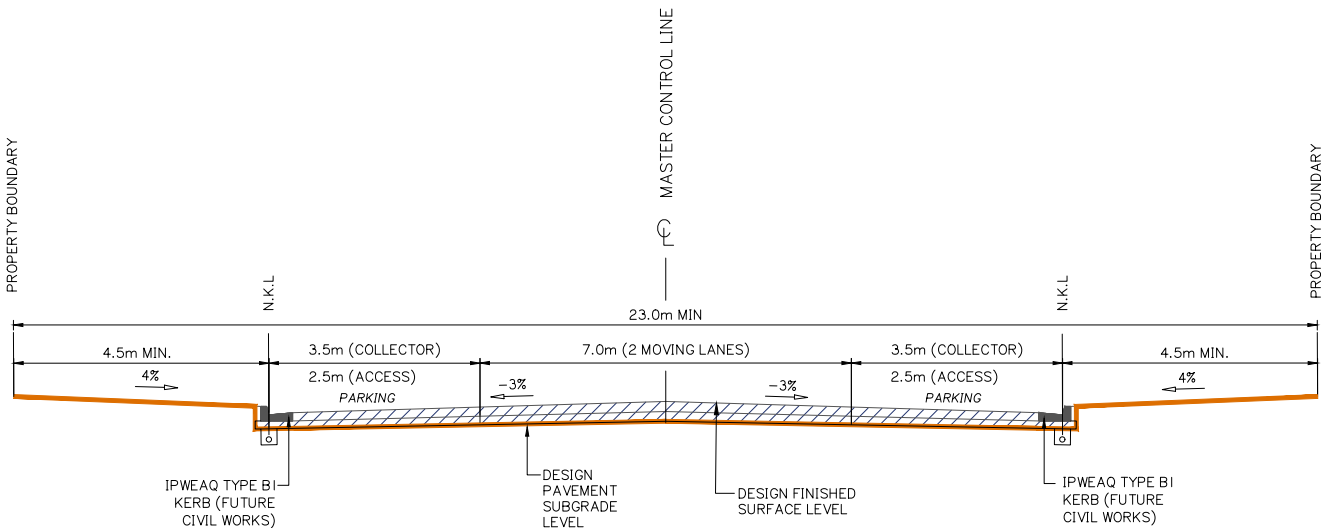
Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	20-02-2020
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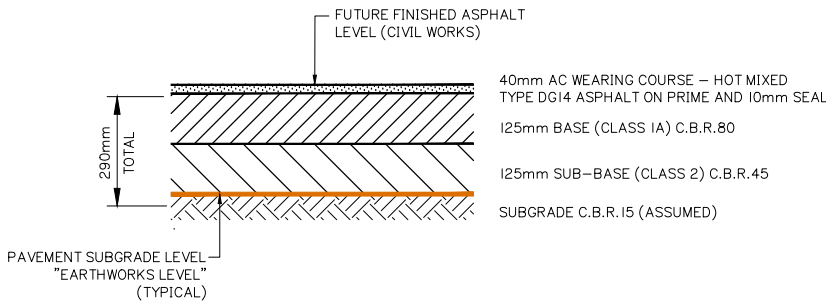
Drawing No:	Rev. No
5941 ENG BE1 161	B



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

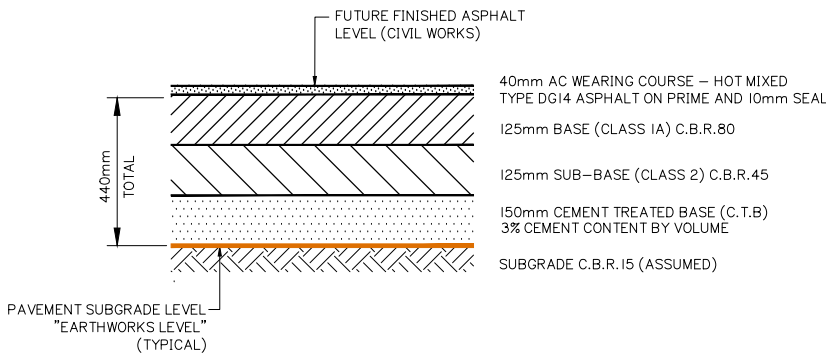
ROAD 01, ROAD 02, ROAD 03, EMERI STREET EXT.

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



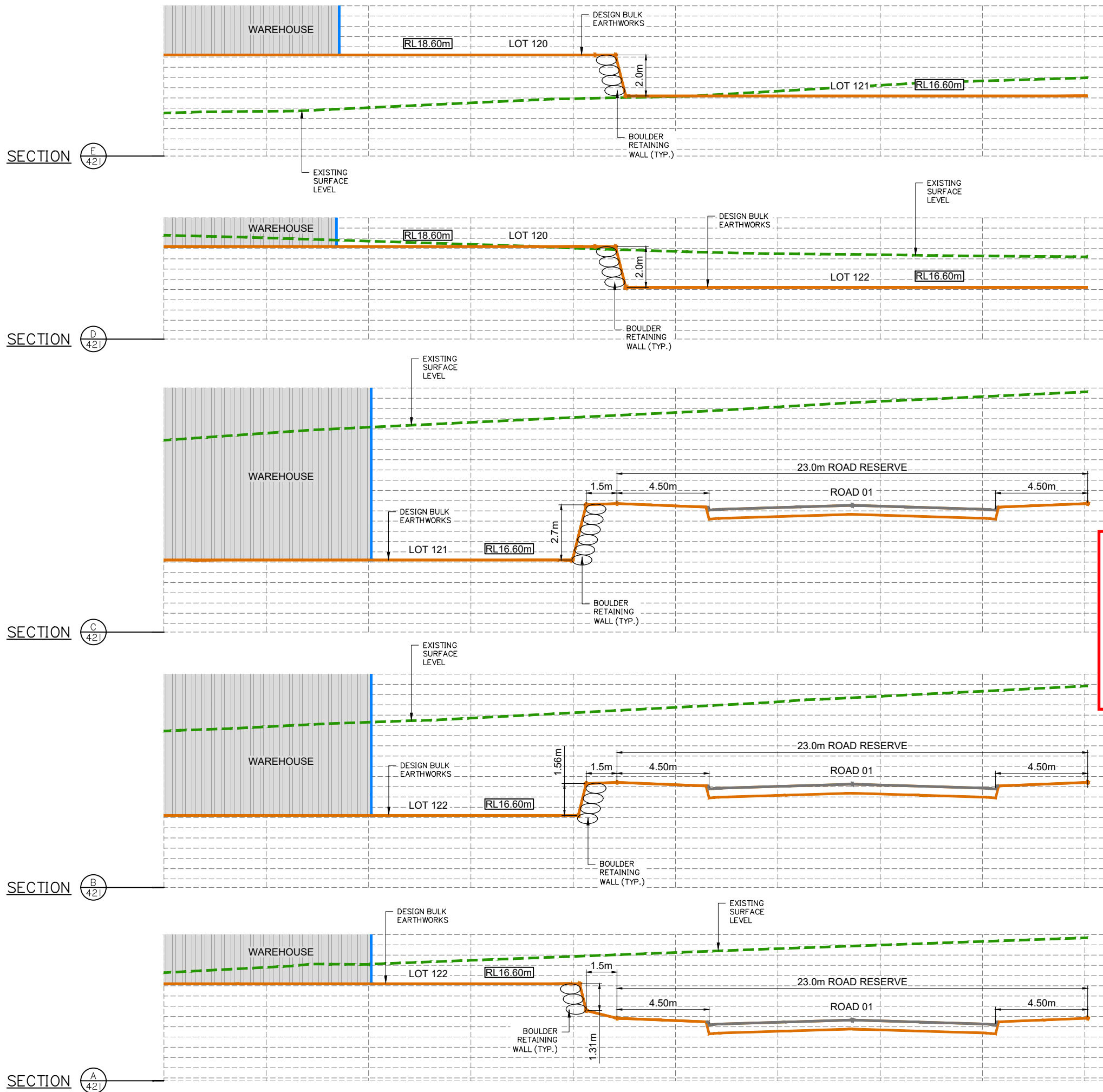
NOMINAL ROAD PAVEMENT DETAIL – IN FILL AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET

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



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
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Issue	Date	Original Issue	Description	IG	MG	CHK
A	20-02-2020	ORIGINAL ISSUE		IG	MG	

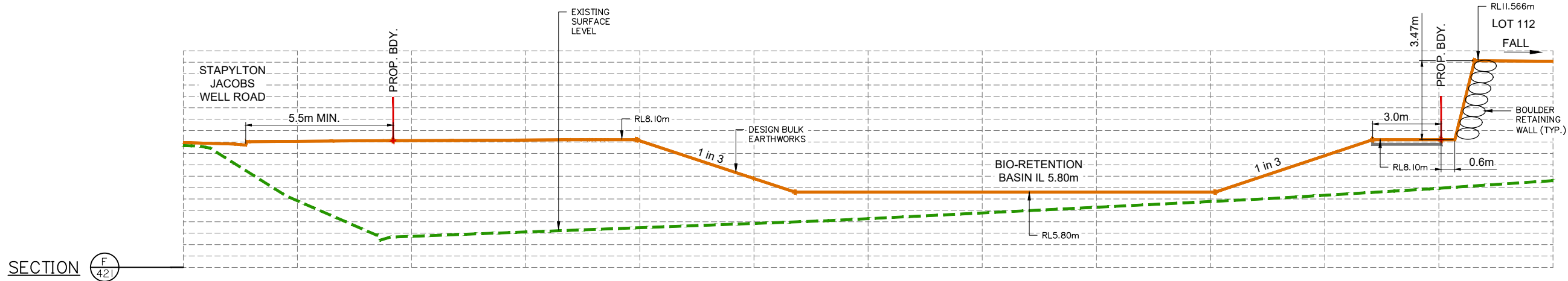
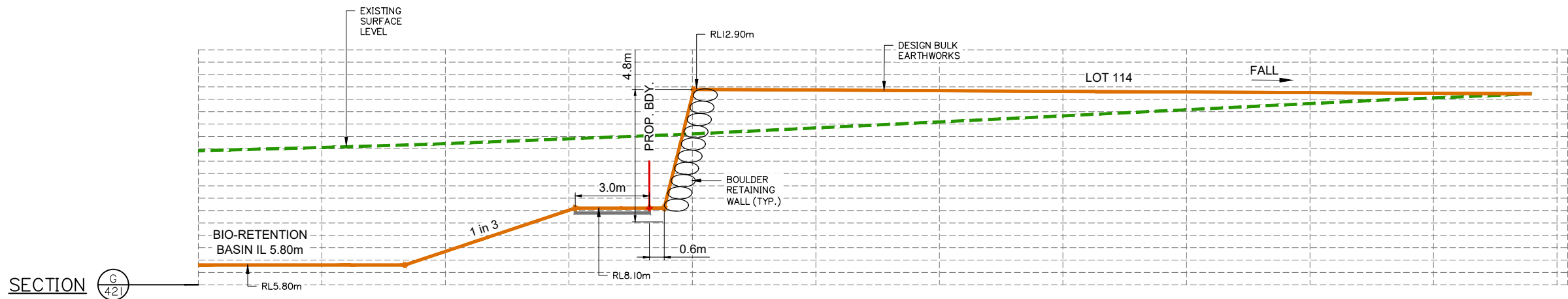
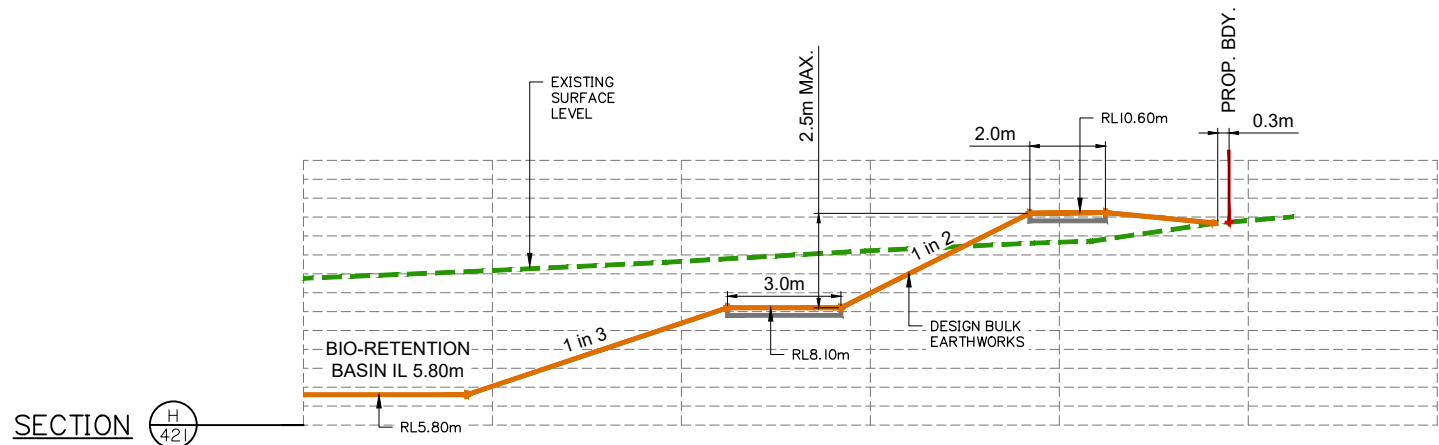
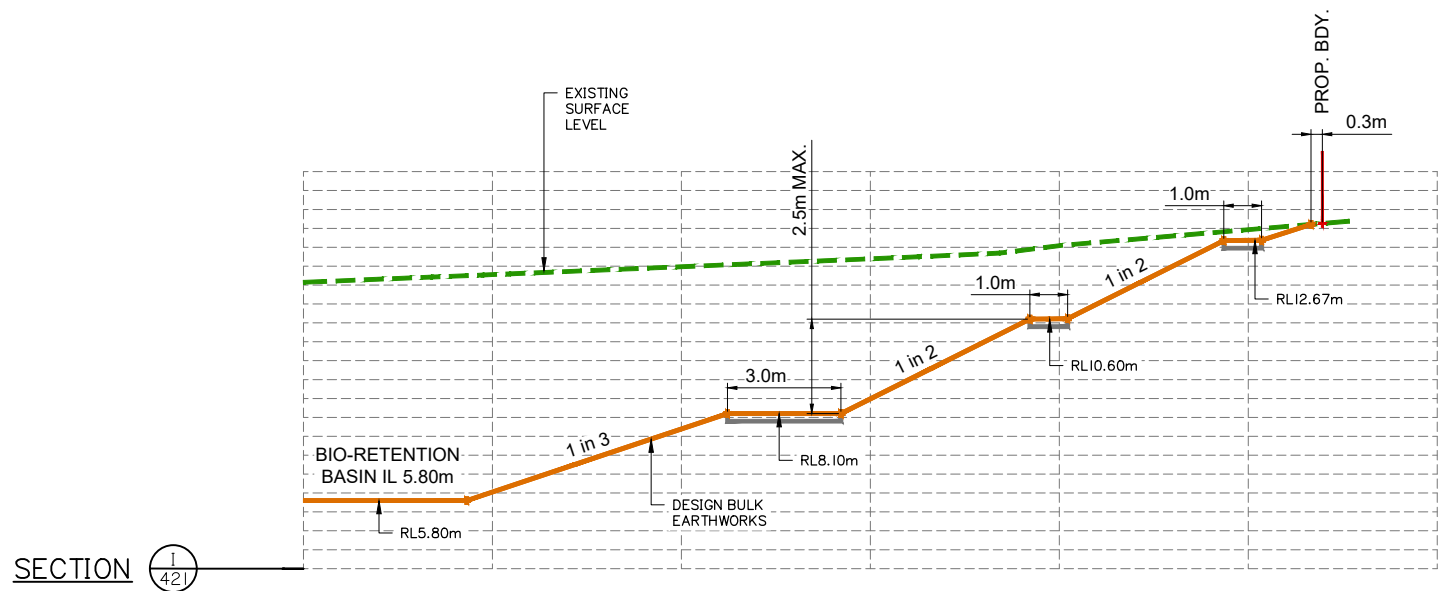
SCALE IN METRES

0 2 4 6 8 10

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



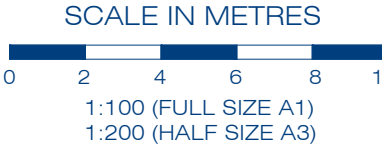
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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



Scale at A1:	1:100
Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

EXTERNAL INTERSECTION DESIGN SHOWN FOR REFERENCE ONLY

STAPYLTON JACOBS WELL ROAD

101 102 103 104 105 106 107 108 109 110

111 112 113 114 115 116 117 118 119

900

120 121 122

EMERY STREET

EMERY STREET EXT.

ROAD 01

ROAD 02

ROAD 03 (1)

ROAD 03 (2)

'BALANCE' FILL PAD

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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CONTROL LINE LAYOUT
PLAN SHEET 1 OF 2

Drawing No:	Rev. No:
5941 ENG BE1 400	C

CONTROL LINE SETOUT TABLE – ROAD 02								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2243.122	6934.888	11.072	61°00'43.89"			
	10.000	2251.869	6939.735	10.830	61°00'43.89"			
	20.000	2260.616	6944.581	10.746	61°00'43.89"			
	30.000	2269.363	6949.427	10.810	61°00'43.89"			
	40.000	2278.111	6954.273	10.879	61°00'43.89"			
	50.000	2286.858	6959.120	10.948	61°00'43.89"			
	60.000	2295.605	6963.966	11.017	61°00'43.89"			
	70.000	2304.352	6968.812	11.087	61°00'43.89"			
	80.000	2313.100	6973.658	11.191	61°00'43.89"			
	90.000	2321.847	6978.504	11.345	61°00'43.89"			
TC	100.000	2330.594	6983.351	11.550	61°00'43.89"			
	110.000	2339.341	6988.197	11.806	61°00'43.89"			
	120.000	2348.088	6993.043	12.102	61°00'43.89"			
	120.028	2348.113	6993.057	12.103	61°00'43.89"			
	IP 2	128.363	2355.687	6997.253	12.351	R = 25.000	16.672	38°12'31.54"
	130.000	2357.557	6996.045	12.400	83°52'01.79"			
	CT	136.699	2364.234	6995.865	12.599	99°13'15.44"		
	140.000	2367.492	6995.337	12.698	99°13'15.44"			
	150.000	2377.363	6993.734	12.996	99°13'15.44"			
	160.000	2387.234	6992.132	13.294	99°13'15.44"			
CT	170.000	2397.105	6990.529	13.592	99°13'15.44"			
	180.000	2406.975	6988.927	13.890	99°13'15.44"			
	190.000	2416.846	6987.324	14.188	99°13'15.44"			
	200.000	2426.717	6985.722	14.487	99°13'15.44"			
	210.000	2436.588	6984.120	14.787	99°13'15.44"			
	220.000	2446.458	6982.517	15.087	99°13'15.44"			
	230.000	2456.329	6980.915	15.390	99°13'15.44"			
	240.000	2466.200	6979.312	15.699	99°13'15.44"			
	250.000	2476.071	6977.710	16.014	99°13'15.44"			
	260.000	2485.942	6976.107	16.330	99°13'15.44"			
CT	270.000	2495.812	6974.505	16.647	99°13'15.44"			
	280.000	2505.683	6972.903	16.964	99°13'15.44"			
	290.000	2515.554	6971.300	17.280	99°13'15.44"			
	300.000	2525.425	6969.698	17.597	99°13'15.44"			
	310.000	2535.295	6968.095	17.913	99°13'15.44"			
	320.000	2545.166	6966.493	18.230	99°13'15.44"			
	330.000	2555.037	6964.891	18.546	99°13'15.44"			
	340.000	2564.908	6963.288	18.863	99°13'15.44"			
	350.000	2574.779	6961.686	19.179	99°13'15.44"			
	360.000	2584.649	6960.083	19.476	99°13'15.44"			
CT	370.000	2594.520	6958.481	19.716	99°13'15.44"			
	380.000	2604.391	6956.878	19.900	99°13'15.44"			
	390.000	2614.262	6955.276	20.027	99°13'15.44"			
	400.000	2624.132	6953.674	20.098	99°13'15.44"			
	410.000	2634.003	6952.071	20.112	99°13'15.44"			
	420.000	2643.874	6950.469	20.070	99°13'15.44"			
	430.000	2653.745	6948.866	19.972	99°13'15.44"			
	440.000	2663.616	6947.264	19.821	99°13'15.44"			
	450.000	2673.486	6945.661	19.657	99°13'15.44"			
	460.000	2683.357	6944.059	19.494	99°13'15.44"			
IP 3	470.000	2693.228	6942.457	19.331	99°13'15.44"			
	480.000	2703.099	6940.854	19.167	99°13'15.44"			
IP 3	480.467	2703.560	6940.779	19.160	99°13'15.44"			

CONTROL LINE SETOUT TABLE – ROAD 03 (1)								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2703.560	6940.779	19.159	189°13'15.11"			
	10.000	2701.958	6930.909	18.880	189°13'15.11"			
	20.000	2700.355	6921.038	18.663	189°13'15.11"			
	30.000	2698.753	6911.167	18.534	189°13'15.11"			
	40.000	2697.150	6901.296	18.468	189°13'15.11"			
	50.000	2695.548	6891.425	18.404	189°13'15.11"			
	60.000	2693.946	6881.555	18.341	189°13'15.11"			
	70.000	2692.343	6871.684	18.277	189°13'15.11"			
	80.000	2690.741	6861.813	18.214	189°13'15.11"			
	90.000	2689.138	6851.942	18.150	189°13'15.11"			
TC	100.000	2687.536	6842.071	18.089	189°13'15.11"			
	110.000	2685.934	6832.201	18.049	189°13'15.11"			
	120.000	2684.331	6822.330	18.034	189°13'15.11"			
	130.000	2682.729	6812.459	18.043	189°13'15.11"			
	140.000	2681.126	6802.588	18.078	189°13'15.11"			
	150.000	2679.524	6792.718	18.135	189°13'15.11"			
	160.000	2677.922	6782.847	18.195	189°13'15.11"			
	170.000	2676.319	6772.976	18.256	189°13'15.11"			
	180.000	2674.717	6763.105	18.316	189°13'15.11"			
	190.000	2673.114	6753.234	18.377	189°13'15.11"			
CT	200.000	2671.512	6743.364	18.437	189°13'15.11"			
	210.000	2669.909	6733.493	18.484	189°13'15.11"			
	220.000	2668.307	6723.622	18.504	189°13'15.11"			
	230.000	2666.705	6713.751	18.495	189°13'15.11"			
	236.477	2665.667	6707.358	18.475	189°13'15.11"			
	240.000	2665.187	6703.868	18.459	186°26'11.97"			
	250.000	2664.754	6693.886	18.396	178°32'01.66"			
	260.000	2665.697	6683.938	18.305	170°37'51.34"			
	IP 2	260.706	2661.633	6682.510	18.297	R = -72.500	48.458	38°17'45.40"
	270.000	2667.999	6674.215	18.186	162°43'41.02"			
CT	280.000	2671.616	6664.900	18.040	154°49'30.70"			
	284.935	2673.866	6660.509	17.961	150°55'29.71"			
	290.000	2676.327	6656.082	17.879	150°55'29.71"			
	300.000	2681.187	6647.343	17.719	150°55'29.71"			
	310.000	2686.046	6638.603	17.559	150°55'29.71"			
	320.000	2690.906	6629.863	17.398	150°55'29.71"			
	330.000	2695.766	6621.123	17.238	150°55'29.71"			
	340.000	2700.625	6612.383	17.078	150°55'29.71"			
	350.000	2705.485	6603.643	16.917	150°55'29.71"			
	360.000	2710.344	6594.904	16.757	150°55'29.71"			
CT	370.000	2715.204	6586.164	16.597	150°55'29.71"			
	380.000	2720.063	6577.424	16.457	150°55'29.71"			
	390.000	2724.923	6568.684	16.475	150°55'29.71"			
	400.000	2729.782	6559.944	16.678	150°55'29.71"			
	410.000	2734.642	6551.204	16.978	150°55'29.71"			
	IP 3	415.749	2737.436	6546.179	17.150	150°55'29.71"		

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
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ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:
Lot: 501, 4
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DRAWING TITLE
ROAD CONTROL LINE
SETOUT TABLES 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
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 403 Rev. No: B

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**PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL**

Application No: MIN/2019/761

Dated: 27 April 2020

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FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

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DRAWING TITLE

ROAD 01 LONGITUDINAL
SECTION SHEET 1 OF 3

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

SCALE IN METRES

Scale 1:500 - 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
Signed:	
Date:	20-02-2020

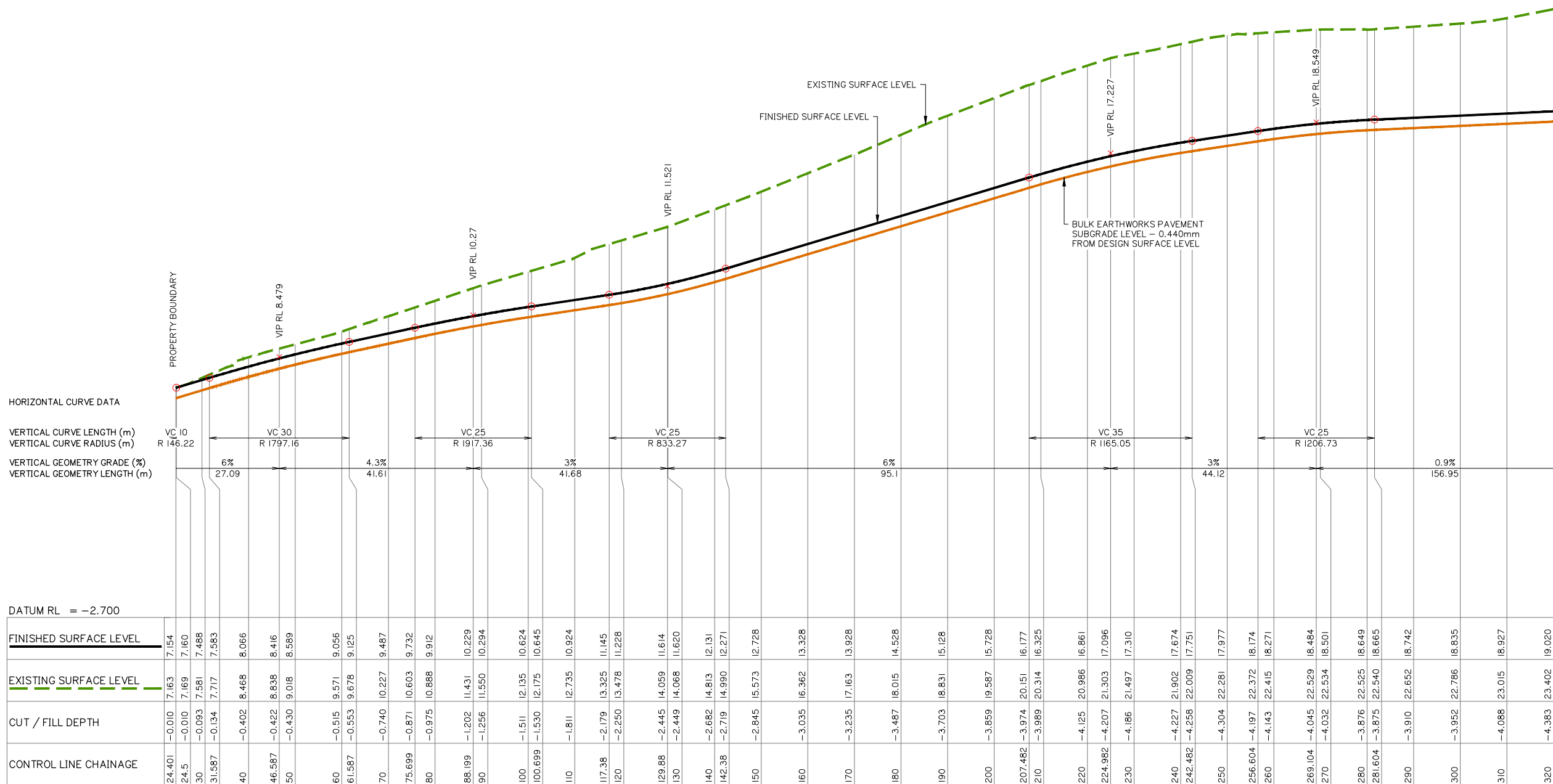
Drawing No:	Rev. No:
5941 ENG BE1 410	B

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



ROAD 01 LONGITUDINAL SECTION SHEET 1 OF 3

AI HORZ SCALE 1: 500
AI VERT SCALE 1: 100

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

ROAD 01 LONGITUDINAL
SECTION SHEET 3 OF 3

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: 

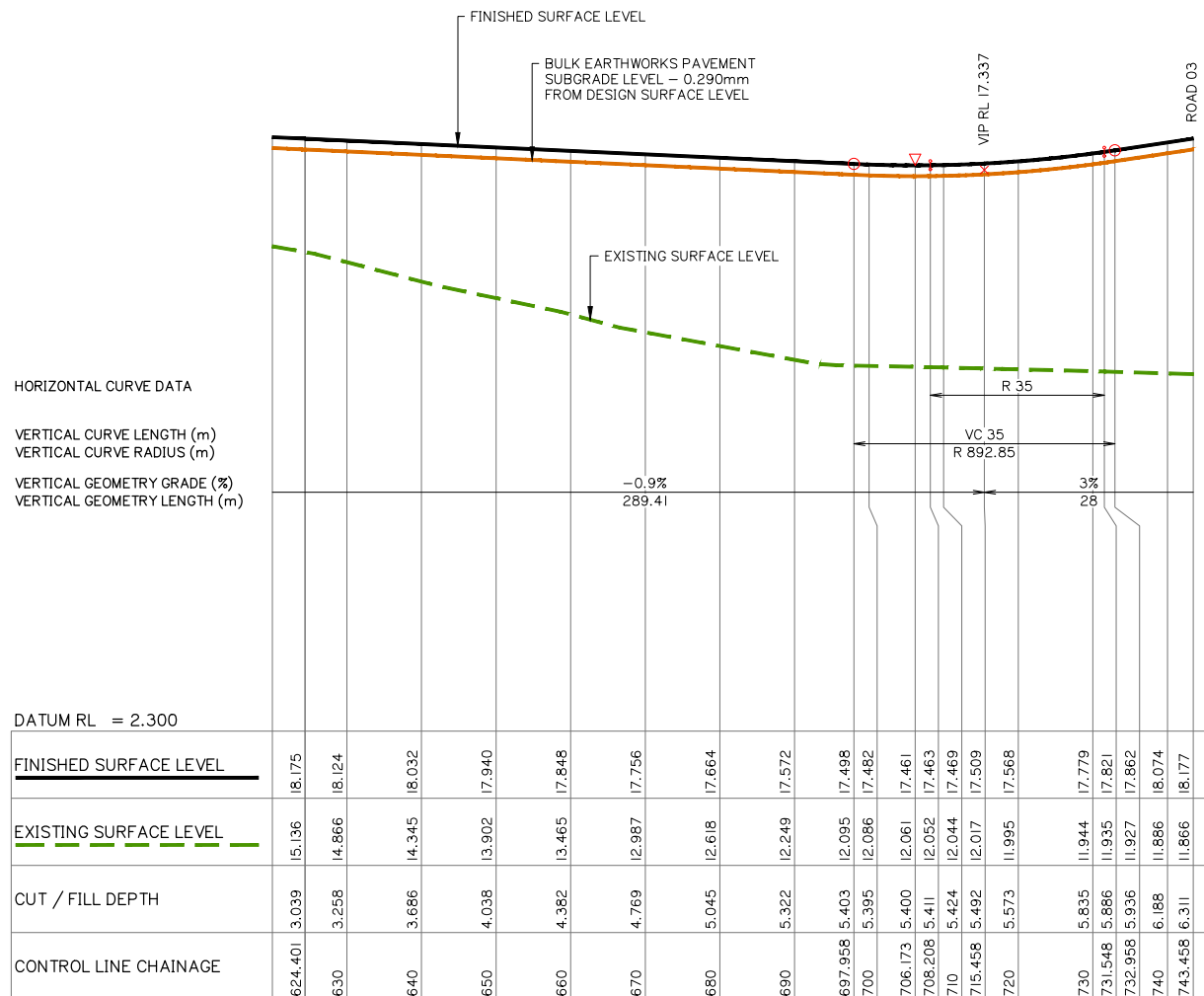
Scale 1:100 - Lengths are in Metres.

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



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

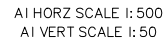
Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

ROAD 01 LONGITUDINAL SECTION SHEET 3 OF 3

AI HORZ SCALE 1: 500
AI VERT SCALE 1: 100

G:\Projects\5941\ENGINEERING\Acad\BE1 CGL\Current\5941 ENG BE1 410-417.dwg



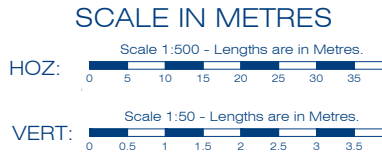
**PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL**

Application No: MIN/2019/761

Dated: 27 April 2020

**Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies**

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



Scale at A1: AS SHOWN

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

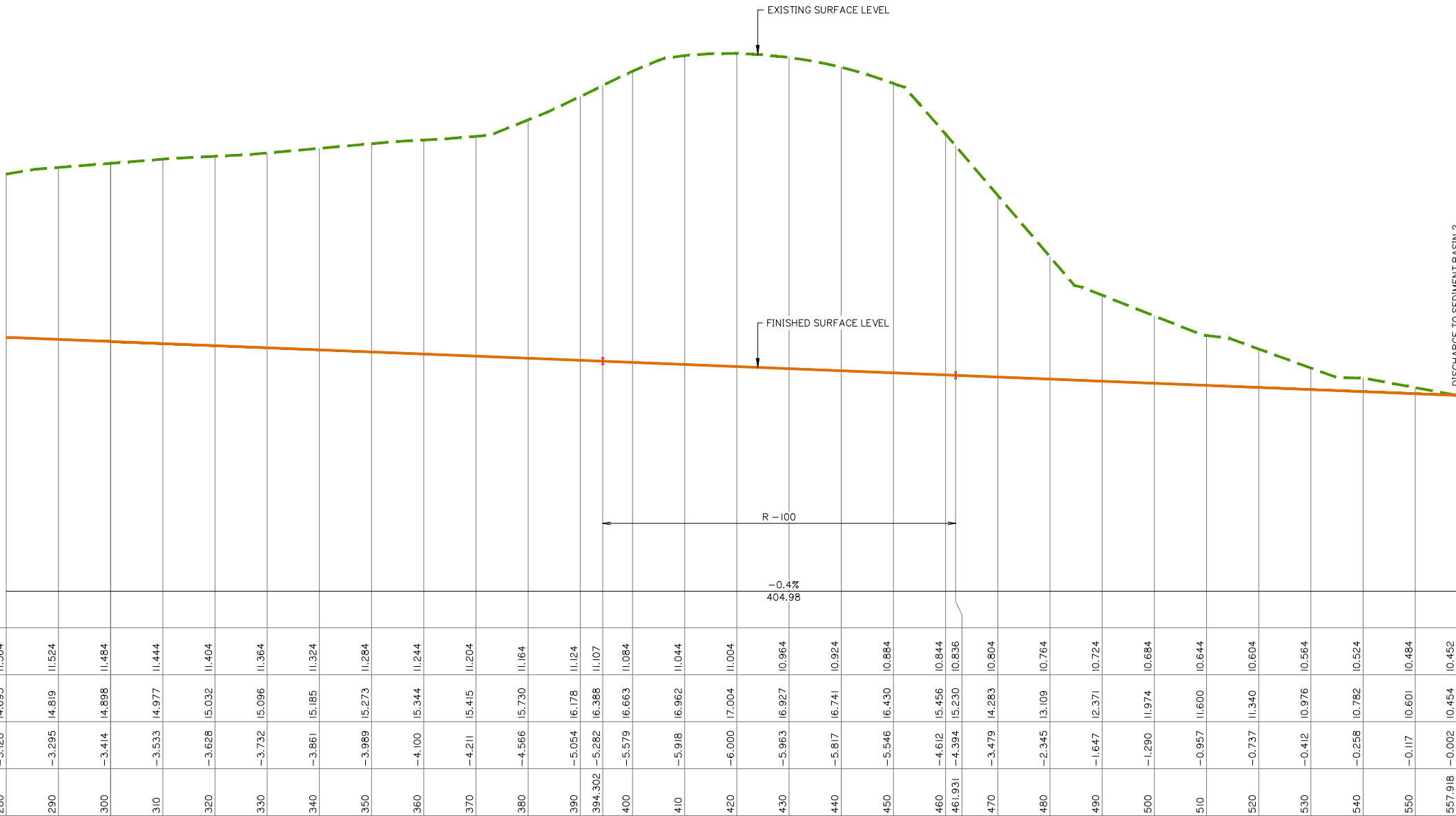
Drawing No: 5941 ENG BE1 419
Rev. No: B

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

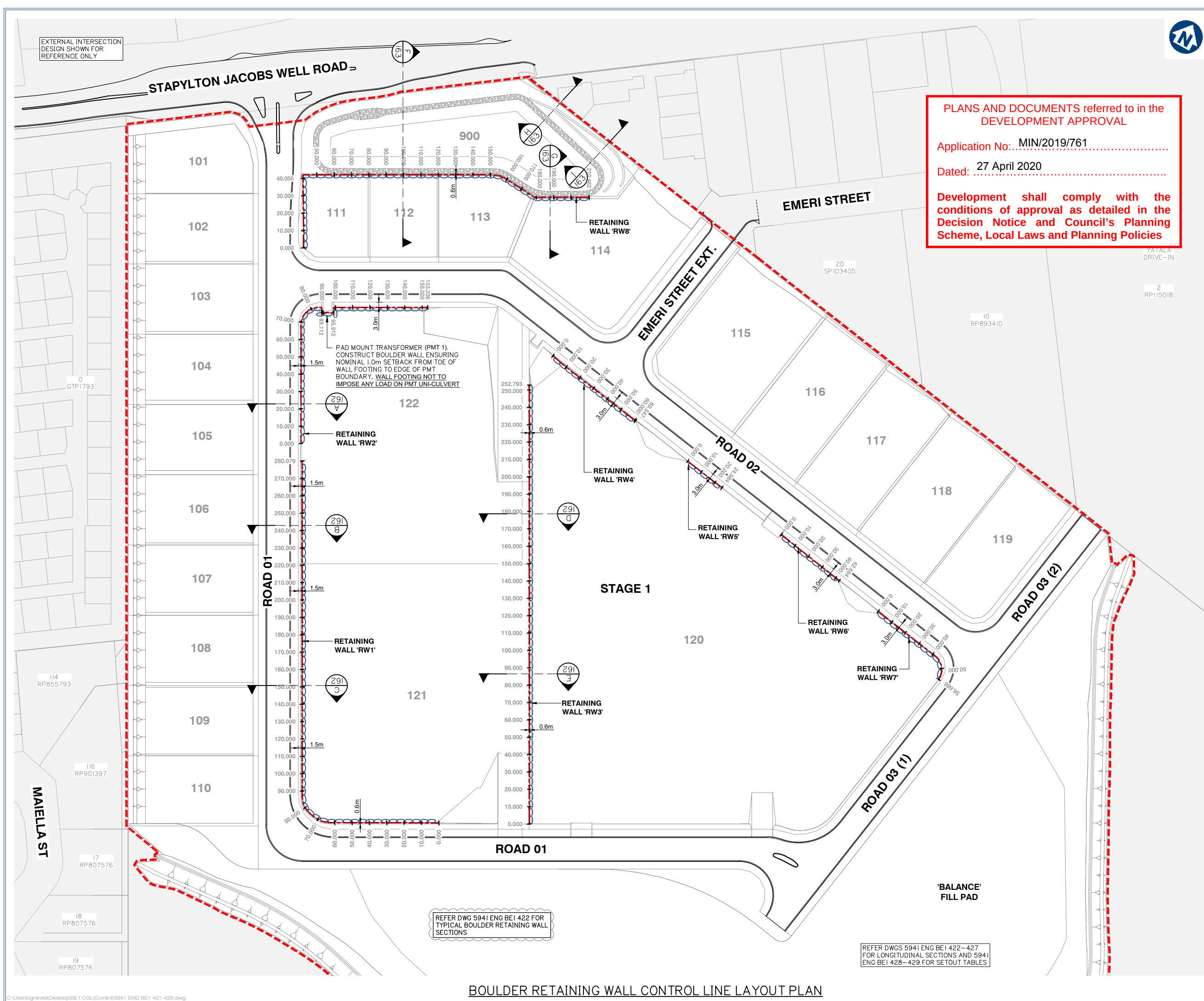
Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies



SWALE DRAIN A LONGITUDINAL SECTION SHEET 2 OF 2

A1 HORZ SCALE 1: 500
A1 VERT SCALE 1: 50



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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

0 20 40 60 80 100

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

Scale at A1:	1:1000
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	<i>Michael</i>
Date:	20-02-2020

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:

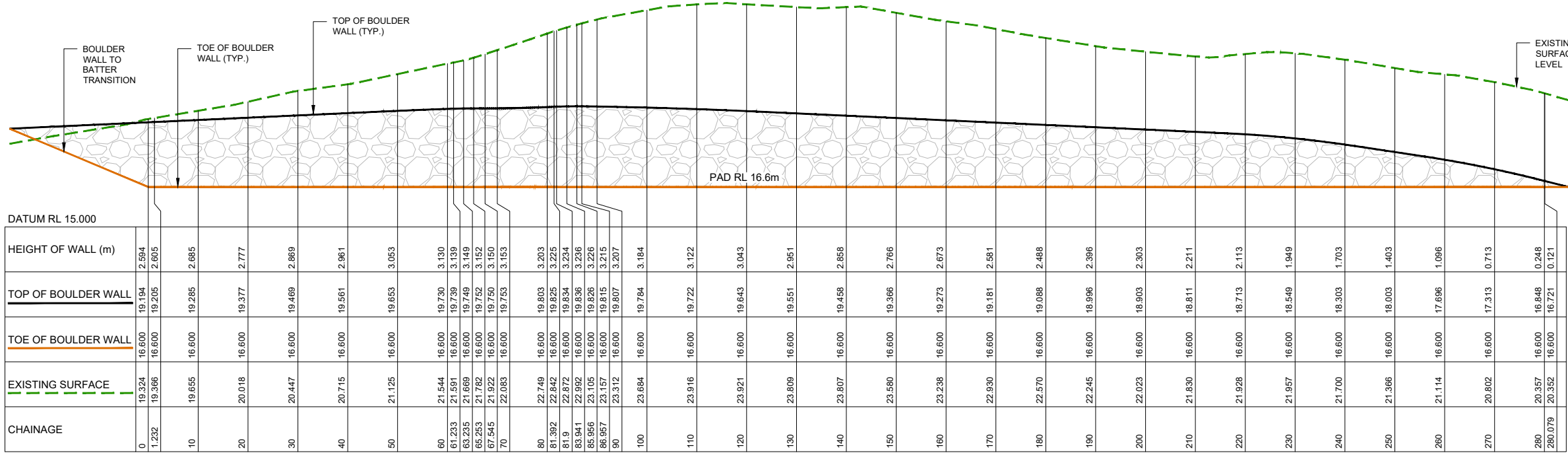
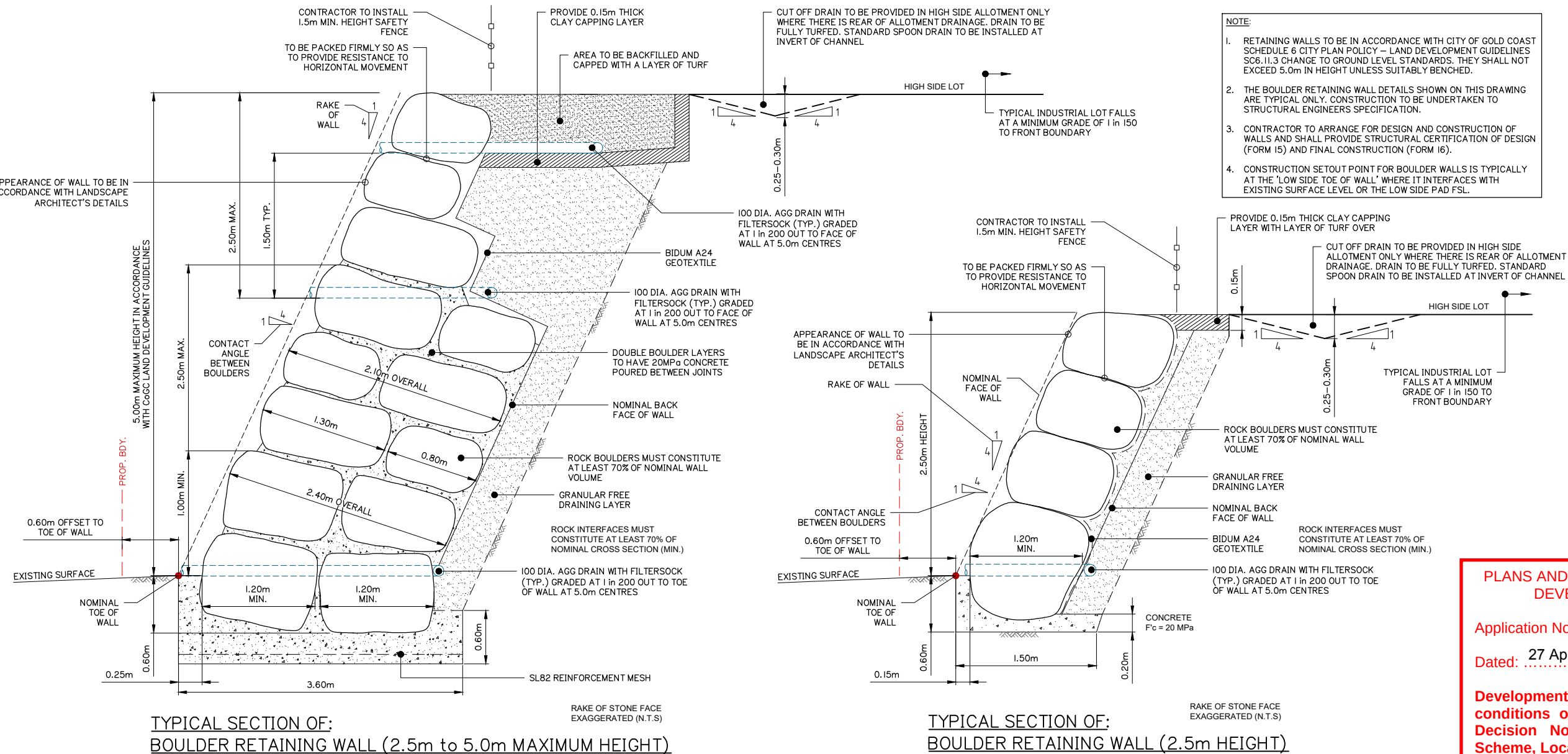
Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
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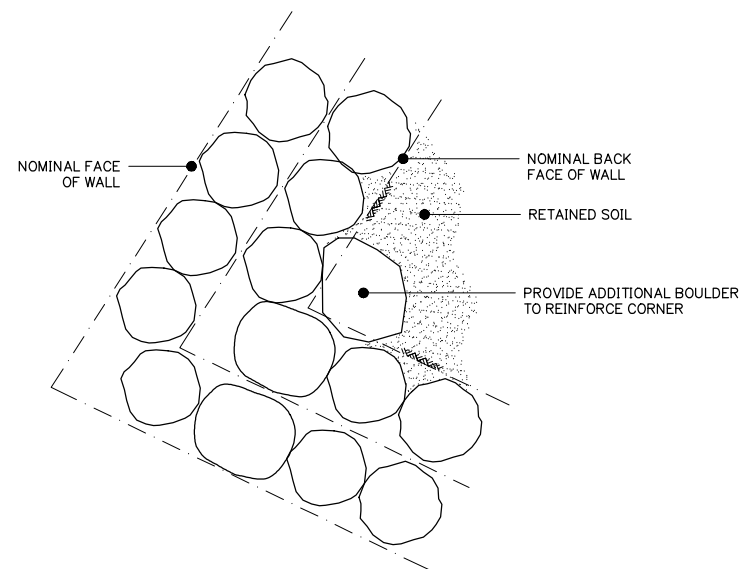


RETAINING WALL 'RW1' - LONGITUDINAL SECTION

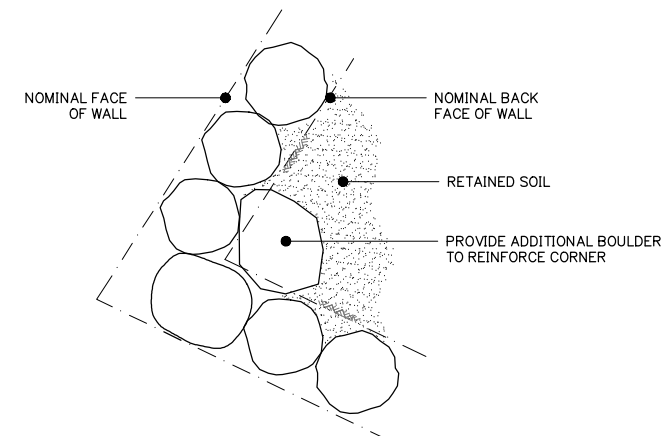
A1 HORZ SCALE 1:500
A1 VERT SCALE 1:100

MAXIMUM HEIGHT OF WALL: 3.236 m

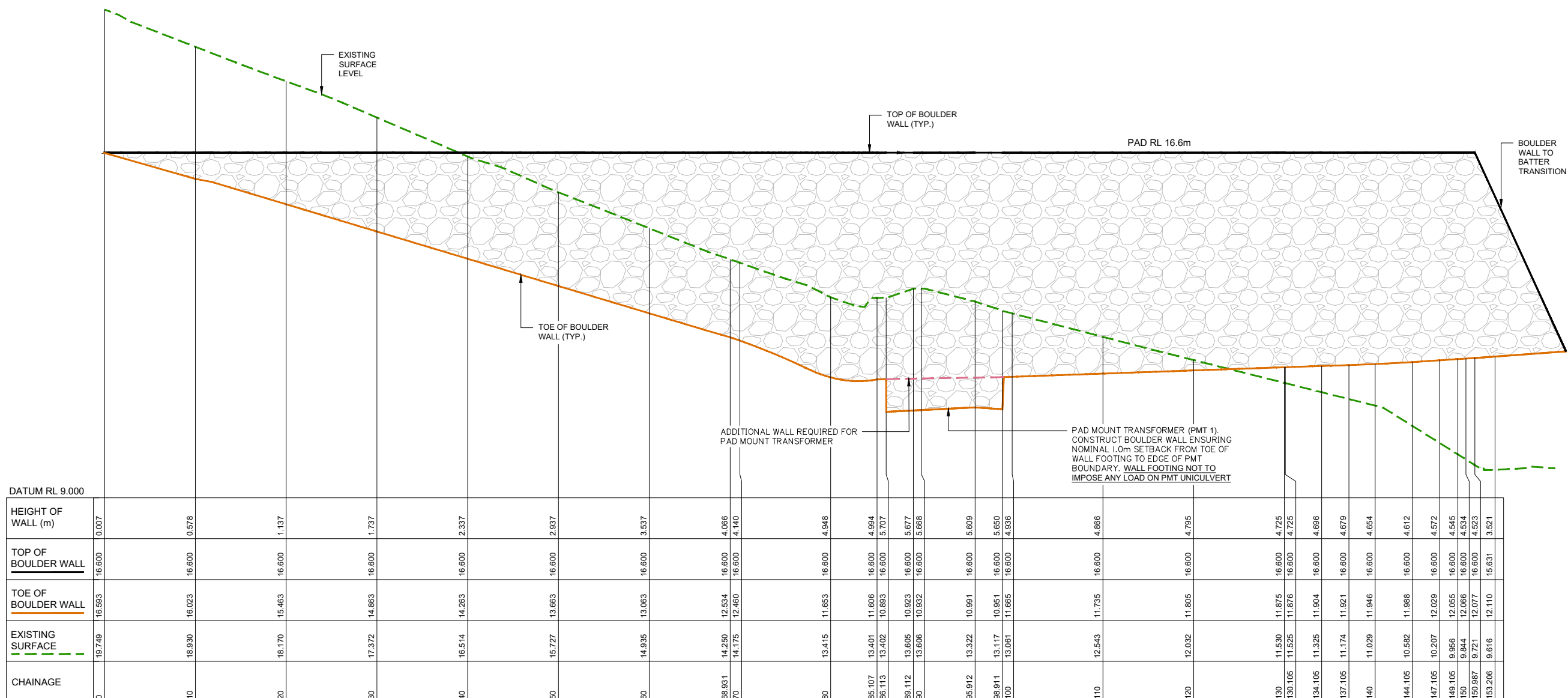
Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



PLAN VIEW
TYPICAL BOULDER WALL
(5.0m MAX. HEIGHT) CORNER DETAIL



PLAN VIEW
TYPICAL BOULDER WALL
CORNER DETAIL



A1 HORZ SCALE 1:250
A1 VERT SCALE 1:50

MAXIMUM HEIGHT OF WALL: 5.707 m

BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 2 OF 6

Client:



FRASERS PROPERTY
(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:	-
RL:	-

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DRAWING TITLE
BOULDER RETAINING
WALL LONGITUDINAL
SECTION SHEET 2 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



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

Scale at A1: AS NOTED

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

Drawing No:	Rev. No:
5941 ENG BE1 423	B



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WELL
ROAD & 31 YELLOWWOOD
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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 LONGITUDINAL
SECTION SHEET 4 OF 6

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

SCALE IN METRES



HOR. 1200 (FULL SIZE A1)
VER. 1:40 (FULL SIZE A1)

Scale at A1: AS NOTED

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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RPEQ: 1693

Signed: 

Date:	20-02-2020
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Drawing No:
5941 ENG BE1 425

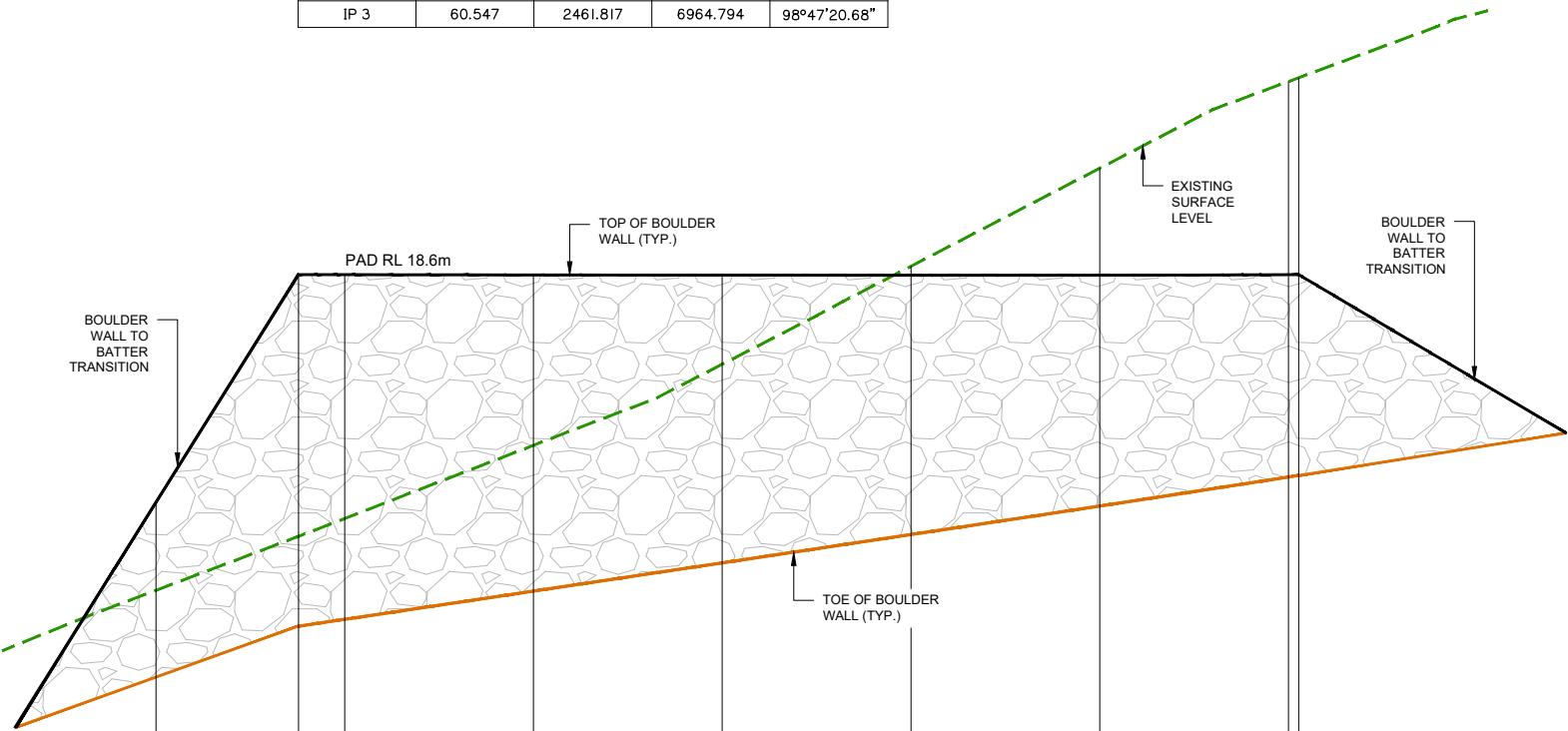
Rev. No:
B

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

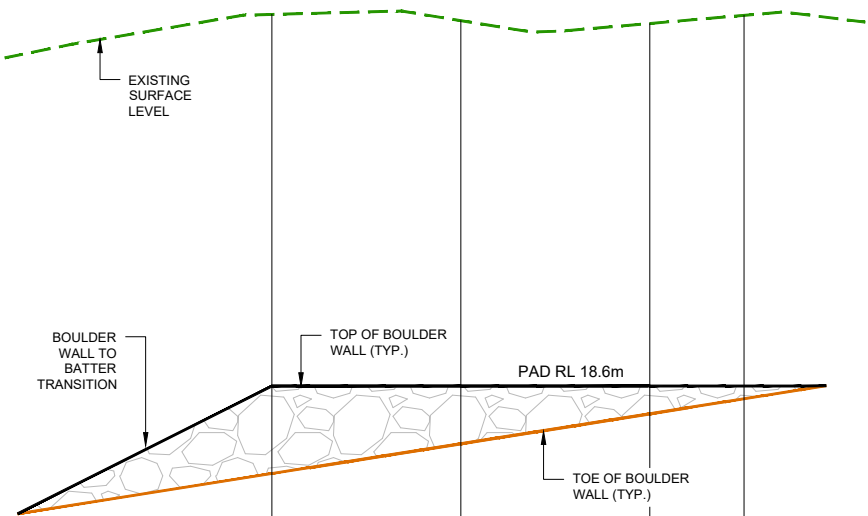
HORIZONTAL GEOMETRY - SETOUT TABLE - RETAINING WALL 'RW4'				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	2402.072	6974.530	102°32'19.62"
IP 2	7.546	2409.438	6972.892	
	10.000	2411.863	6972.517	98°47'20.68"
	20.000	2421.746	6970.989	98°47'20.68"
	30.000	2431.628	6969.461	98°47'20.68"
	40.000	2441.511	6967.933	98°47'20.68"
	50.000	2451.394	6966.405	98°47'20.68"
	60.000	2461.276	6964.877	98°47'20.68"
IP 3	60.547	2461.817	6964.794	98°47'20.68"

[illegible]

RETAINING WALL 'RW4' - LONGITUDINAL SECTION
A1 HORZ SCALE 1:200
A1 VERT SCALE 1:40

MAXIMUM HEIGHT OF WALL: 3.723 m

HORIZONTAL GEOMETRY - SETOUT TABLE - RETAINING WALL 'RW5'				
PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	2499.374	6959.001	98°46'03.12"
	10.000	2509.257	6957.476	98°46'03.12"
	20.000	2519.140	6955.952	98°46'03.12"
IP 2	24.984	2524.066	6955.192	98°46'03.12"



DATUM RL 16.000					
HEIGHT OF WALL (m)	0.926		0.613		
<u>TOP OF BOULDER WALL</u>	18.600		18.600	18.600	0.135
<u>TOE OF BOULDER WALL</u>	17.674		17.987	18.304	18.465
<u>EXISTING SURFACE</u>	22.532		22.466	22.436	22.522
CHAINAGE	0		10	20	24.984

RETAINING WALL 'RW5' - LONGITUDINAL SECTION
A1 HORZ SCALE 1:200
A1 VERT SCALE 1:40

MAXIMUM HEIGHT OF WALL: 0.926 m

HORIZONTAL GEOMETRY - SETOUT TABLE - RETAINING WALL 'RW8'					
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	2246.208	6959.239	11.069	330°44'33.22"
	10.000	2241.320	6967.963	10.529	330°44'33.22"
	20.000	2236.433	6976.687	9.989	330°44'33.22"
	30.000	2231.546	6985.412	9.448	330°44'33.22"
	40.000	2226.658	6994.136	8.908	330°44'33.22"
IP 2	42.096	2225.634	6995.965	8.795	
	50.000	2232.548	6999.795	8.487	61°00'47.00"
	60.000	2241.295	7004.641	8.144	61°00'47.00"
	70.000	2250.042	7009.487	8.100	61°00'47.00"
	80.000	2258.789	7014.333	8.100	61°00'47.00"
	90.000	2267.537	7019.179	8.100	61°00'47.00"
	100.000	2276.284	7024.026	8.100	61°00'47.00"
	110.000	2285.031	7028.872	8.100	61°00'47.00"
	120.000	2293.779	7033.718	8.100	61°00'47.00"
	130.000	2302.526	7038.564	8.100	61°00'47.00"
	140.000	2311.273	7043.410	8.100	61°00'47.00"
	150.000	2320.021	7048.256	8.100	61°00'47.00"
IP 3	151.132	2321.011	7048.805	8.100	
IP 4	155.300	2324.908	7050.281	8.100	
IP 5	159.468	2329.065	7050.592	8.100	
IP 6	160.000	2329.596	7050.555	8.100	93°57'36.78"
	170.000	2339.572	7049.865	8.100	93°57'36.78"
	179.180	2348.730	7049.231	8.100	
	180.000	2349.447	7049.628	8.100	61°00'47.00"
	190.000	2358.194	7054.474	8.100	61°00'47.00"
	200.000	2366.942	7059.320	8.100	61°00'47.00"
	210.000	2375.689	7064.166	8.100	61°00'47.00"
	210.462	2376.093	7064.390	8.100	61°00'47.00"

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
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planning | environment | landscape | engineering | survey
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
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
COUNCIL

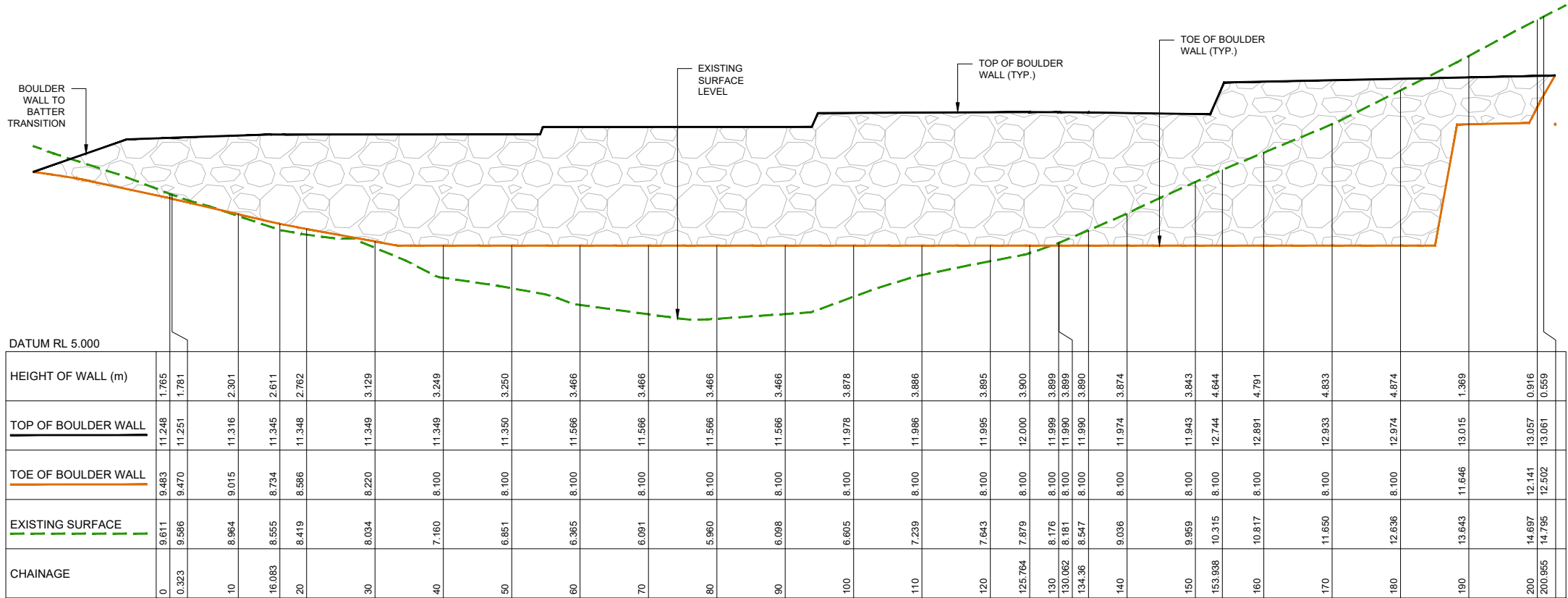
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE
BOULDER RETAINING
WALL LONGITUDINAL
SECTION SHEET 6 OF 6



RETAINING WALL 'RW8' - LONGITUDINAL SECTION
A1 HORZ SCALE 1:400
A1 VERT SCALE 1:80

MAXIMUM HEIGHT OF WALL: 4.874 m

SCALE IN METRES
0 8 16 24 32 40
HOR. 1:400 (FULL SIZE A1)
VER. 1:80 (FULL SIZE A1)

Scale at A1: AS NOTED

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

Drawing No: 5941 ENG BE1 427 Rev. No: B

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"			



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

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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
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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
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	

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies



ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11

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



Client:



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
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

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

Drawing No:
5941 ENG BE1 430

Rev. No:
B

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 3 OF 11

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

VERT: 

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

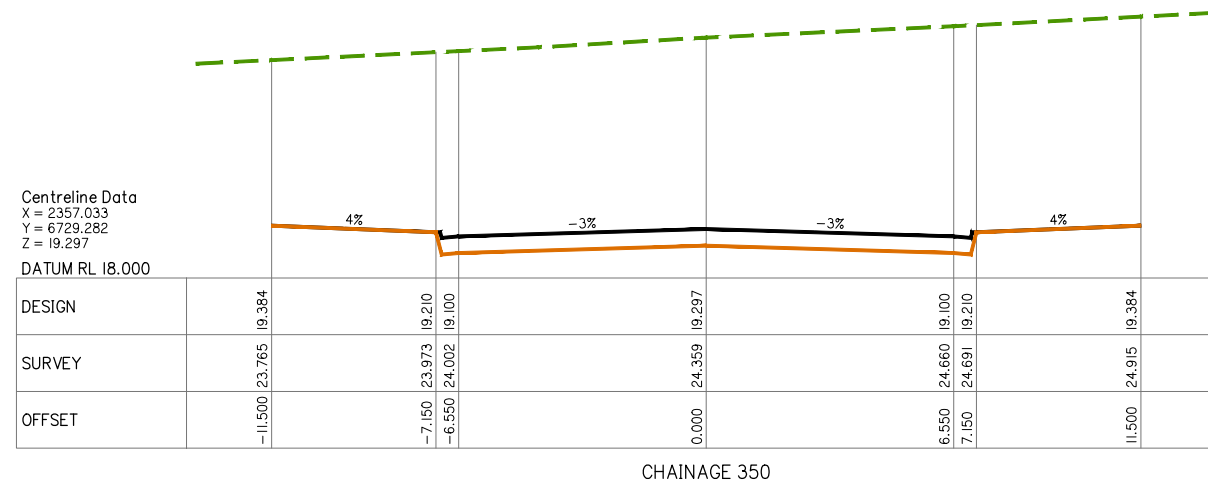
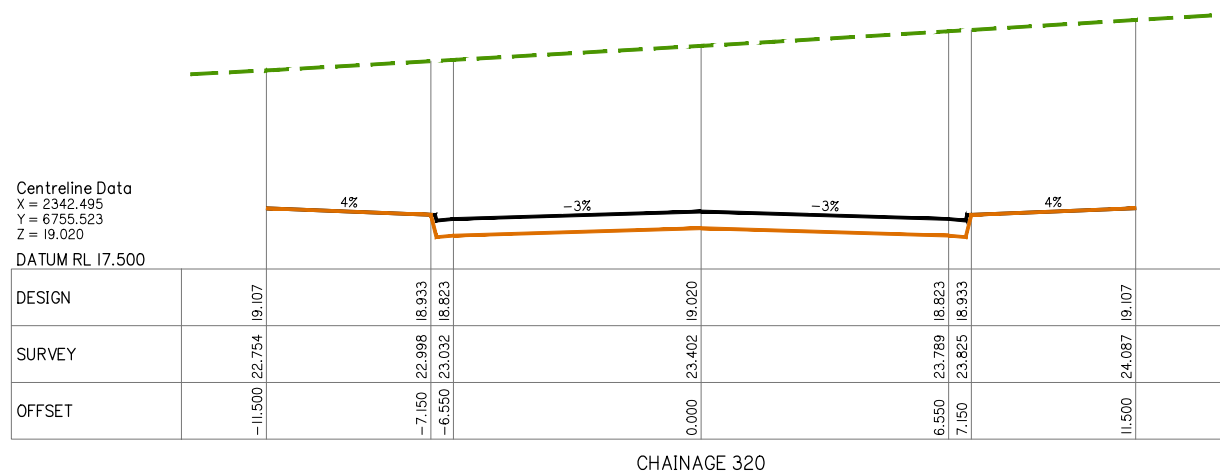
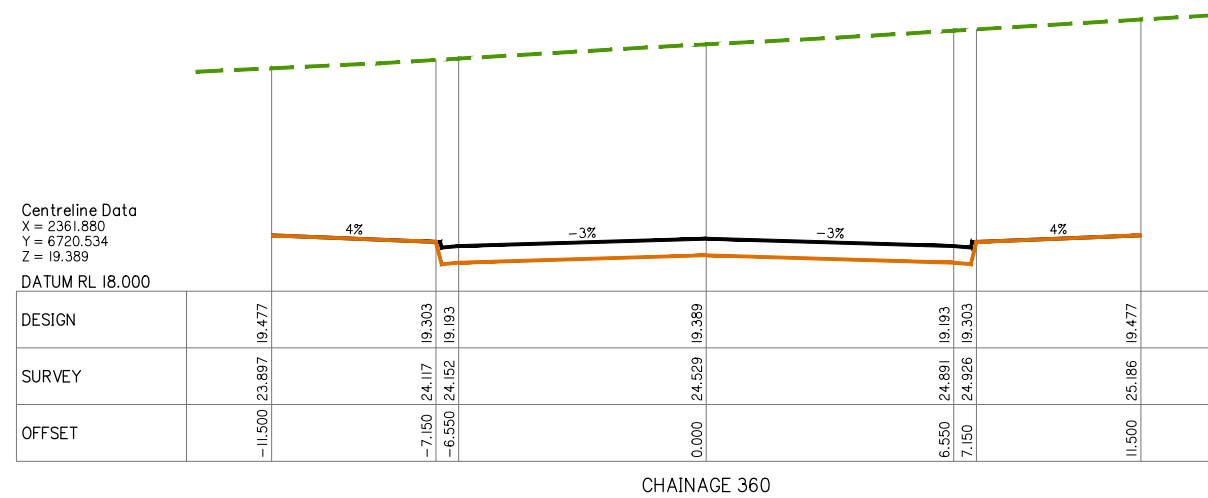
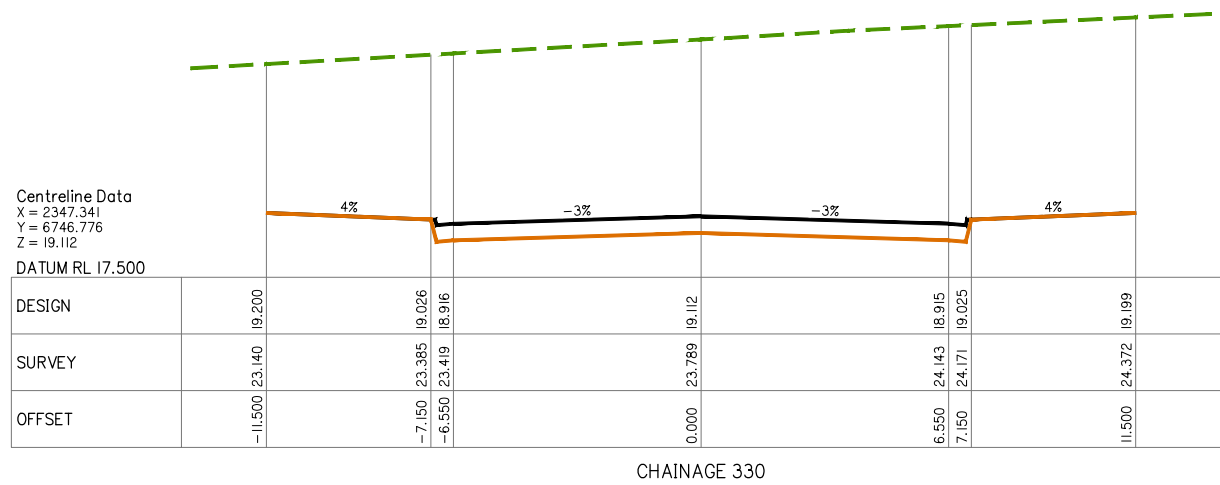
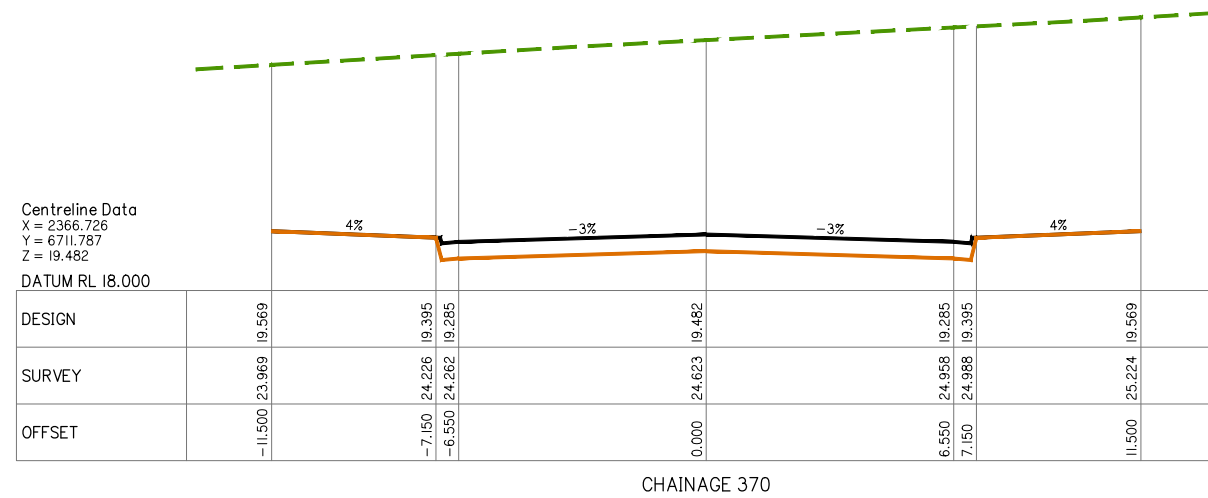
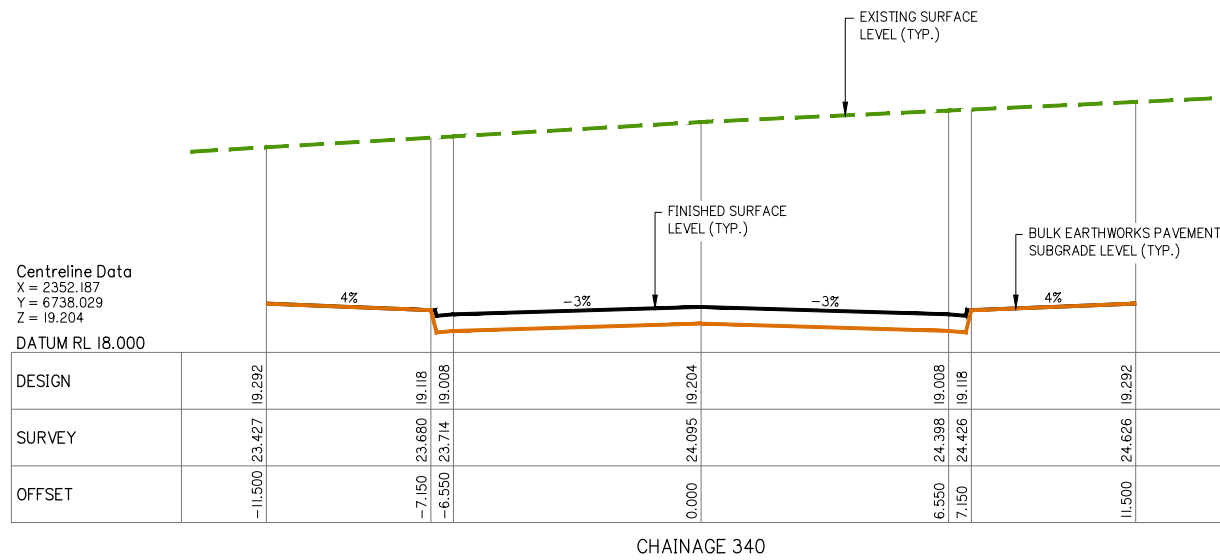
Drawing No:	Rev. No:
5941 ENG BE1 432	B

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Date: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies



ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11

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

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 ROAD 01 BULK 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 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 434
Rev. No: B



Project: M38 INDUSTRIAL
PARK YATALA

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

Level Datum: A
Meridian: -
Contour Interval: -
PSM: -
RI: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

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

Scale 1:100 - Lengths are in Metres.

HOZ: 

VERT: 

Scale at A1: AS SHOWN

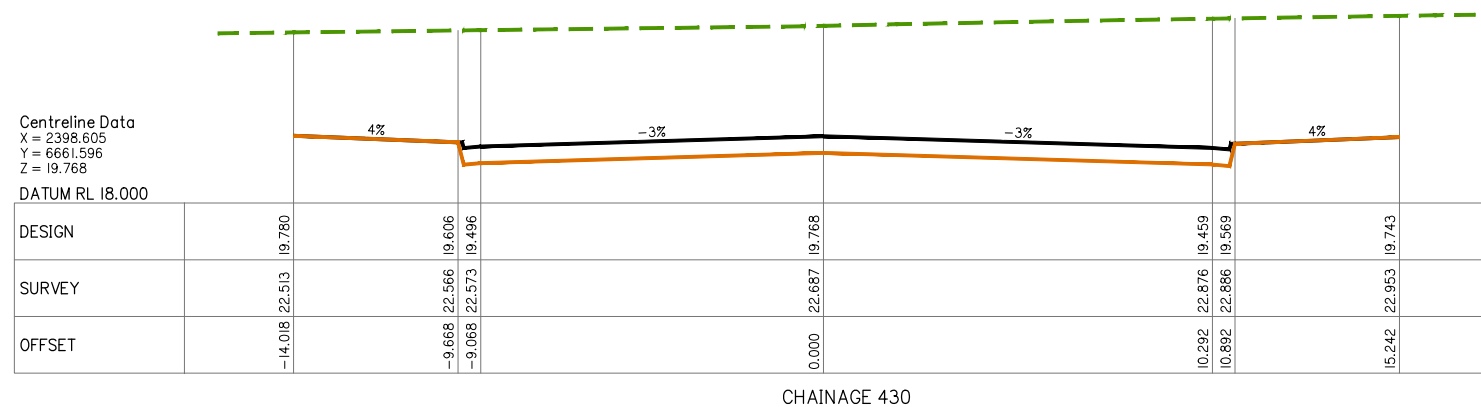
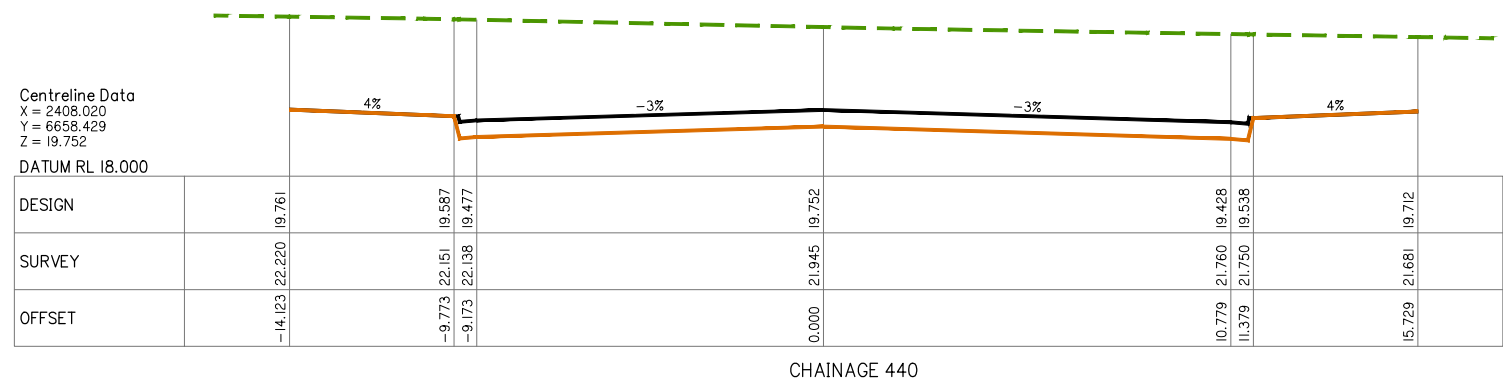
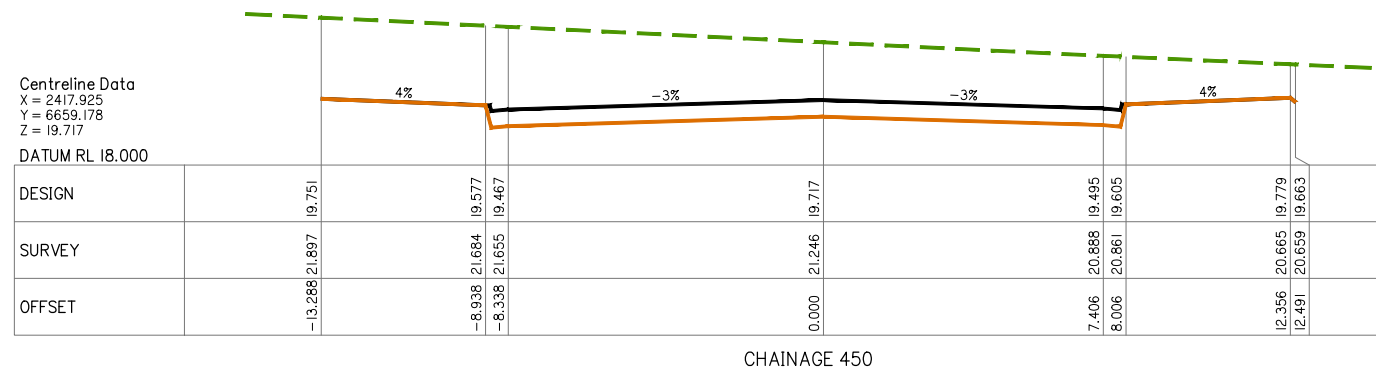
Date:	20-02-2020
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Rev. No:
B

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



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



Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

DRAWING TITLE
ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 7 OF 11

B	20-09-2020	INFORMATION REQUEST RESPONSE	IQ	MU
A	20-12-2019	ORIGINAL ISSUE	JFG	MO
Issue	Date	Description	DRN	CH

Scale 1:100 - Lengths are in Metres.

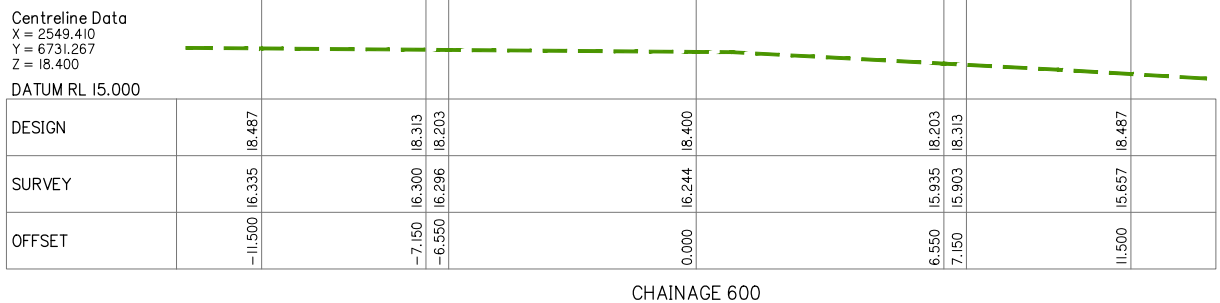
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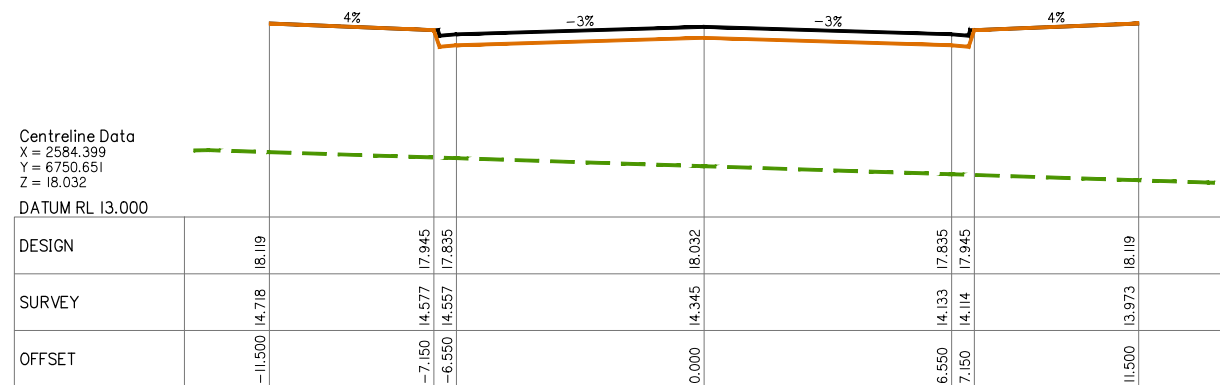
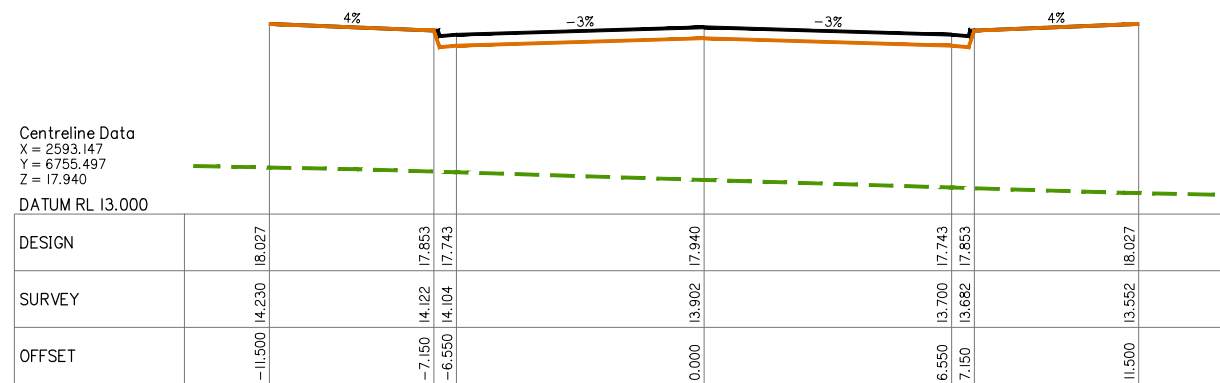
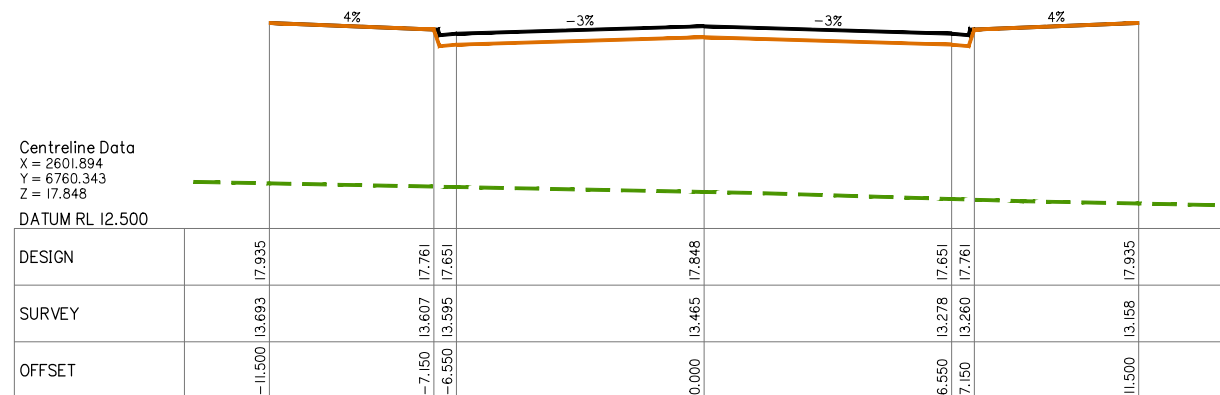
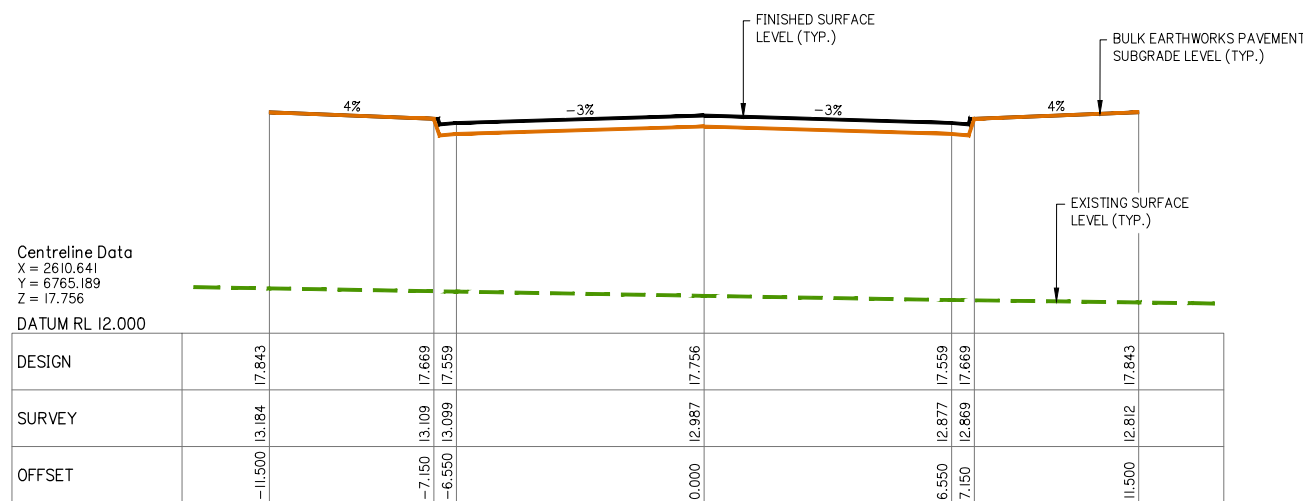
Scale at A1: AS SHOWN

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

Drawing No:
5941 ENG BE1 436

Rev. No:
B





ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 10 OF 11

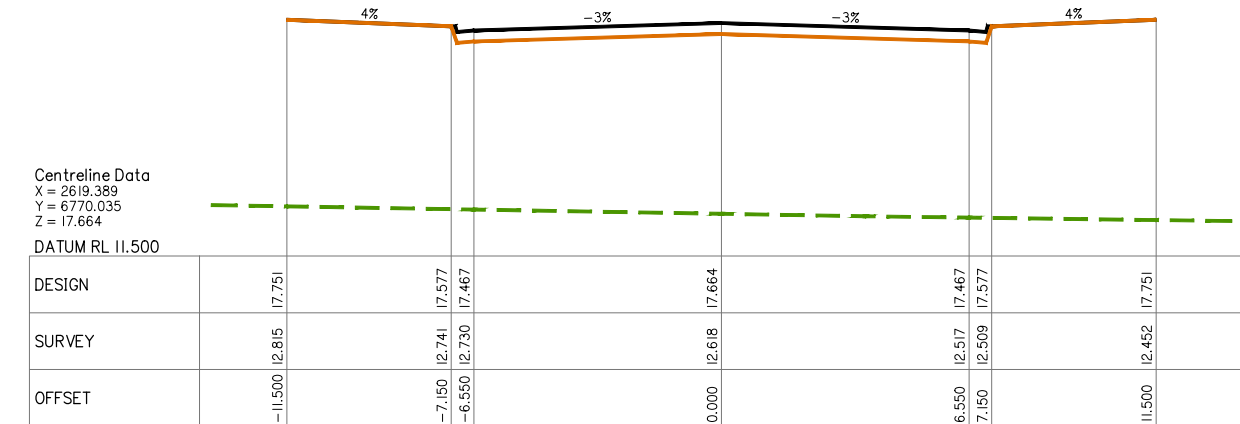
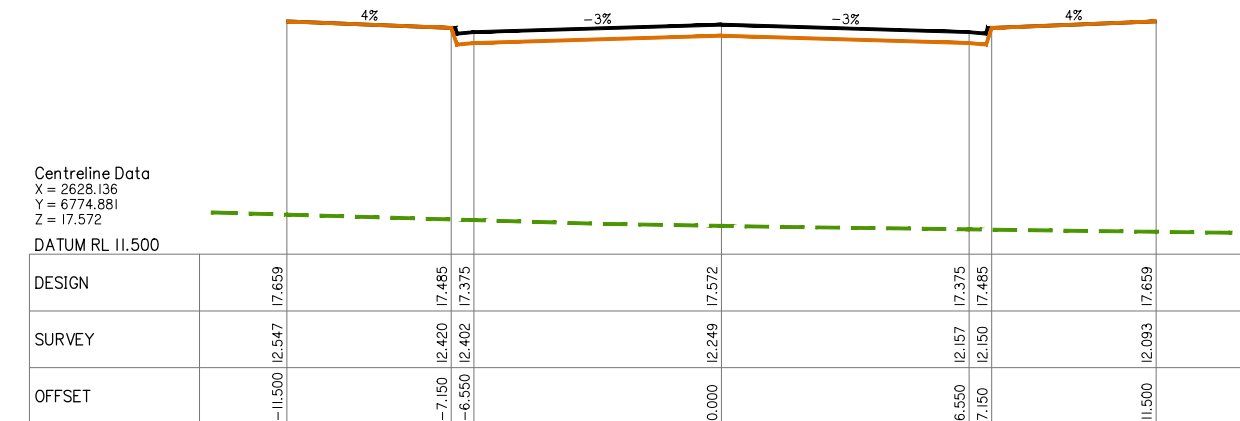
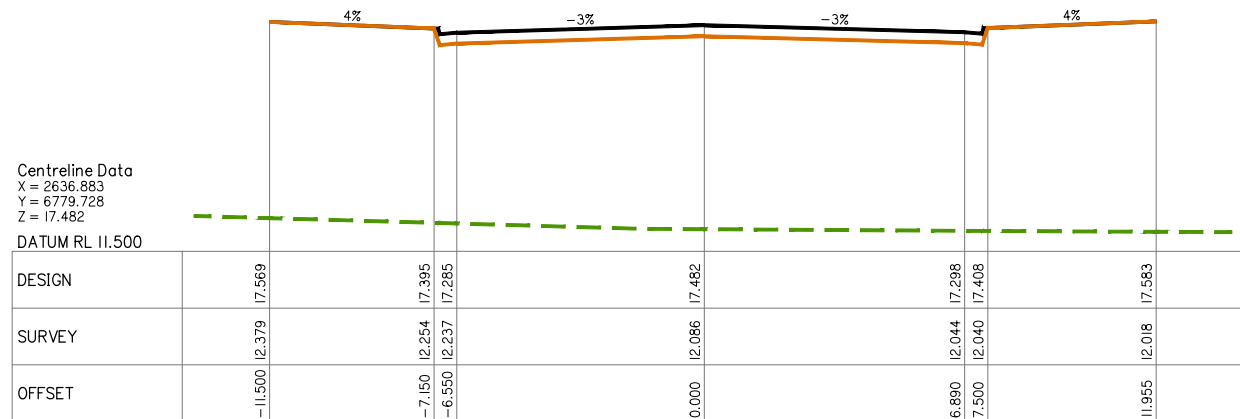
AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100

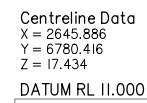
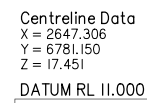
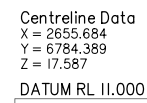
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies





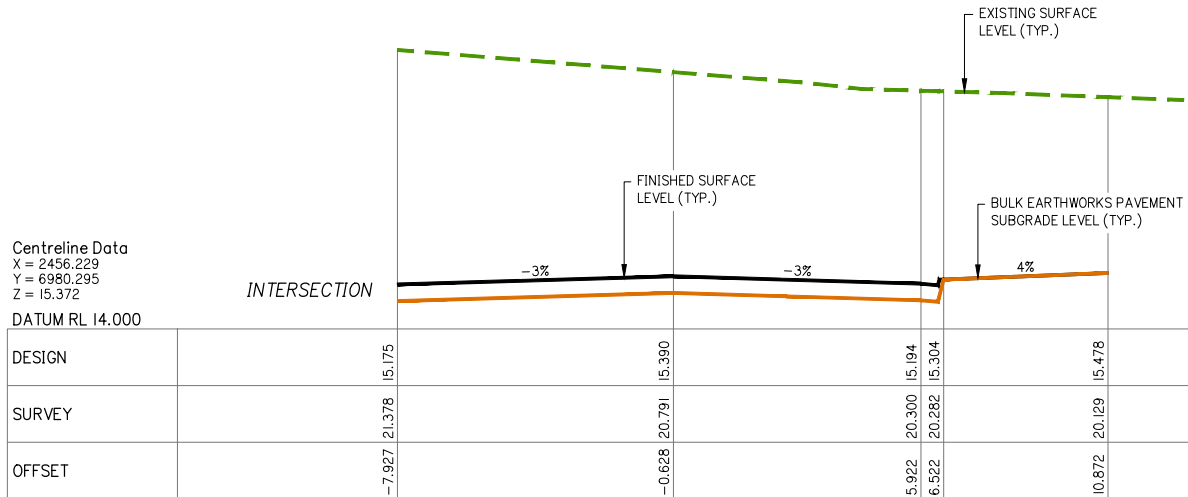
AI HORIZ SCALE 1:100
AI VERT SCALE 1:100

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
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Scheme, Local Laws and Planning Policies



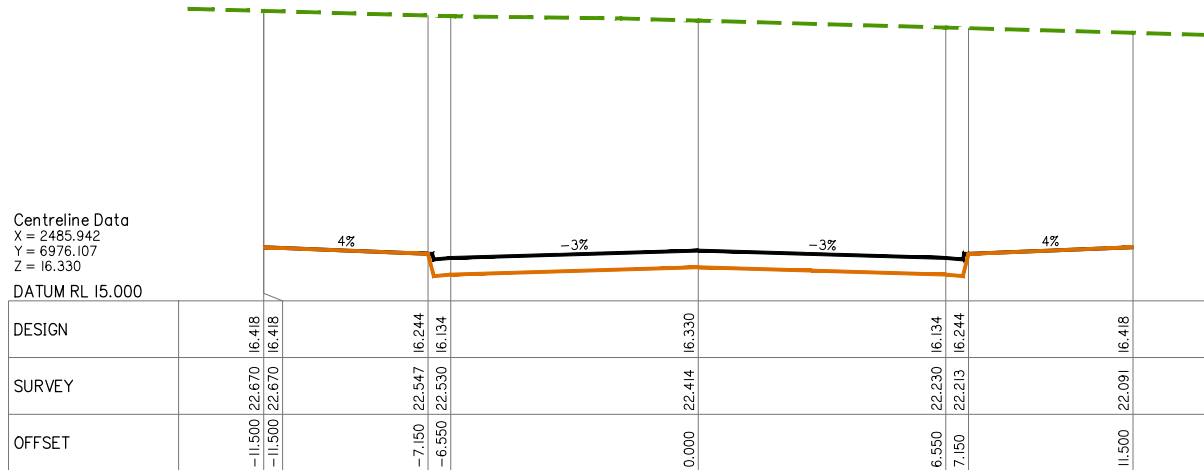
CHAINAGE 230



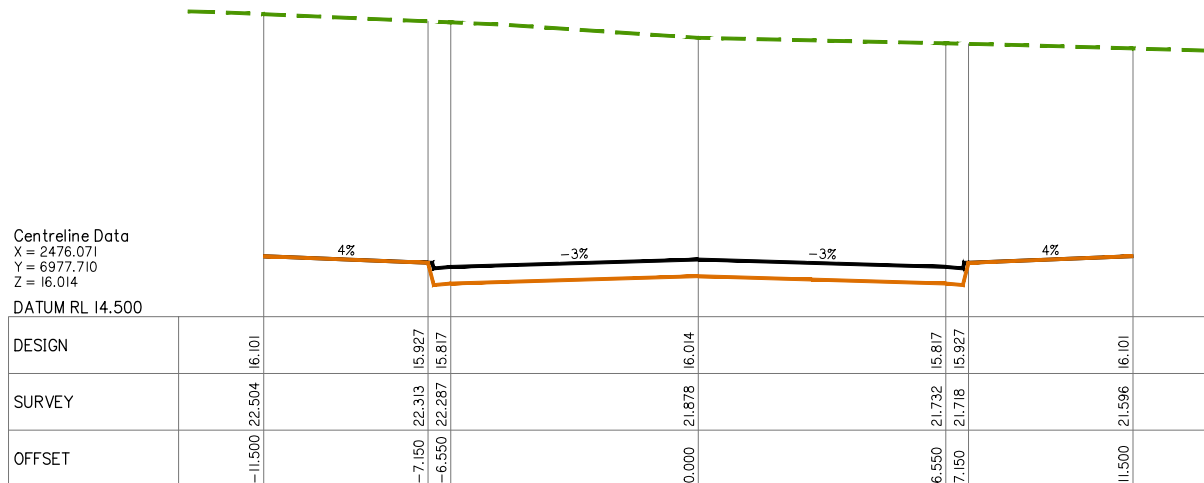
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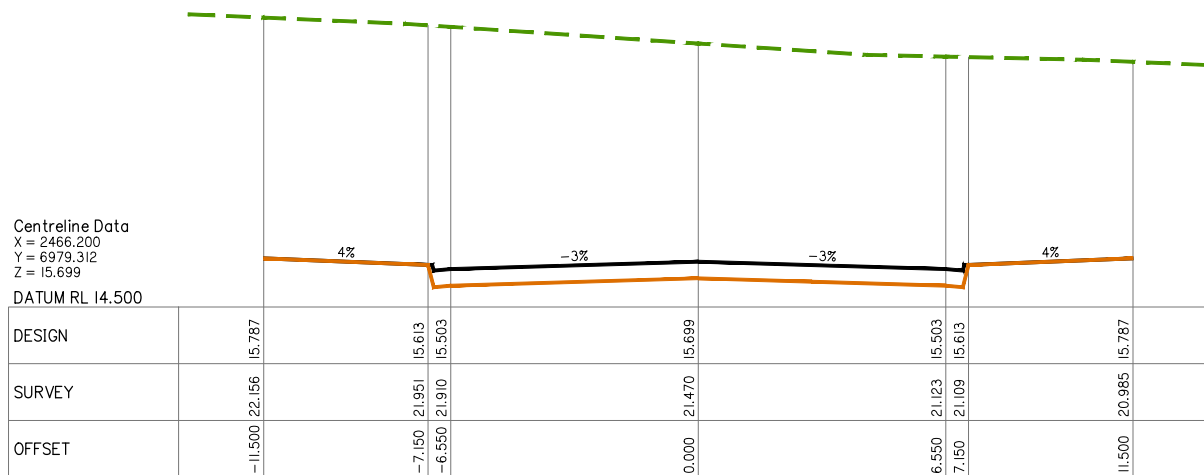
CHAINAGE 210



CHAINAGE 260



CHAINAGE 250



CHAINAGE 240

ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 6

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

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:

Meridian:

Contour Interval:

PSM:

RL:

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DRAWING TITLE
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

**PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL**

Application No: MIN/2019/761

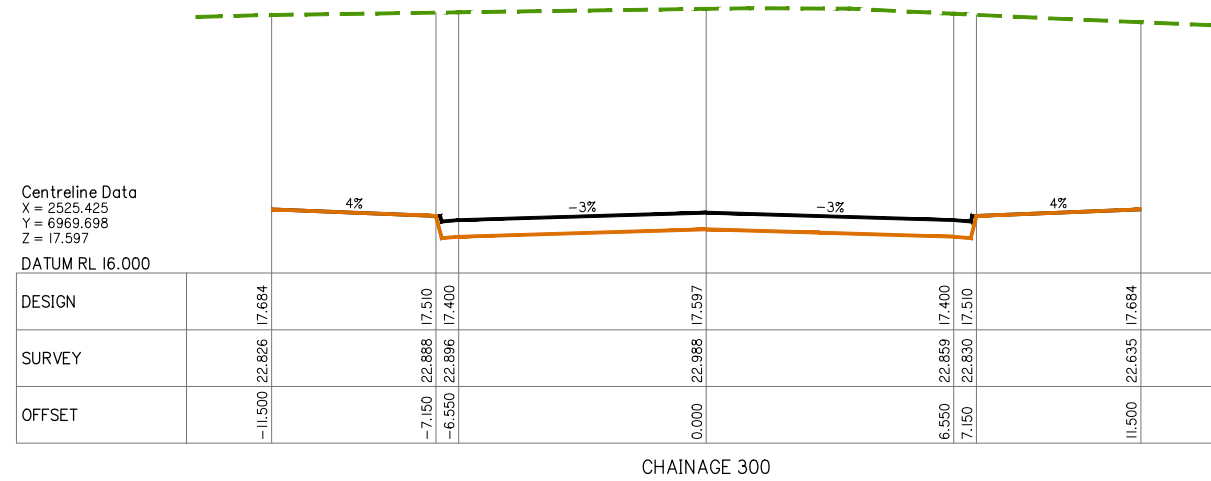
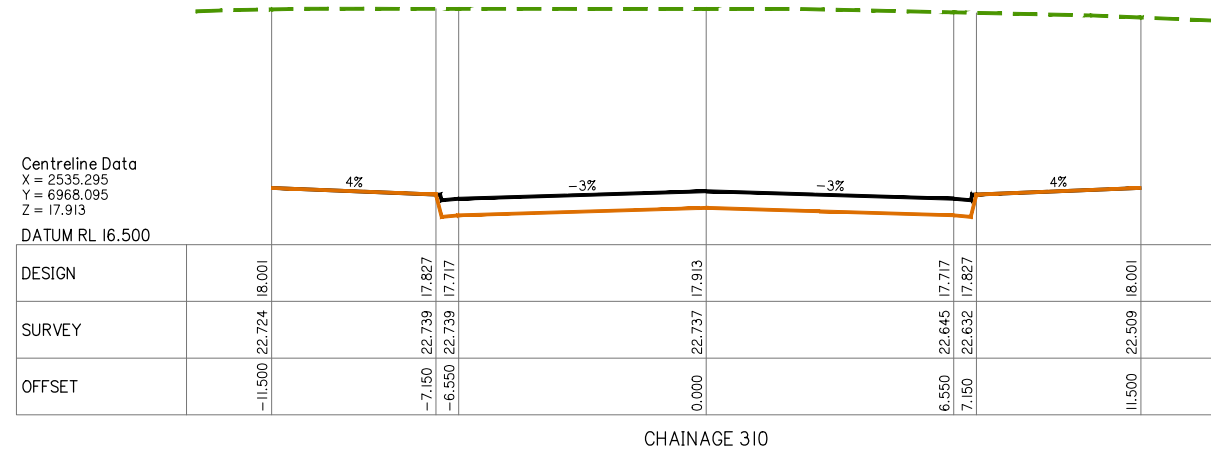
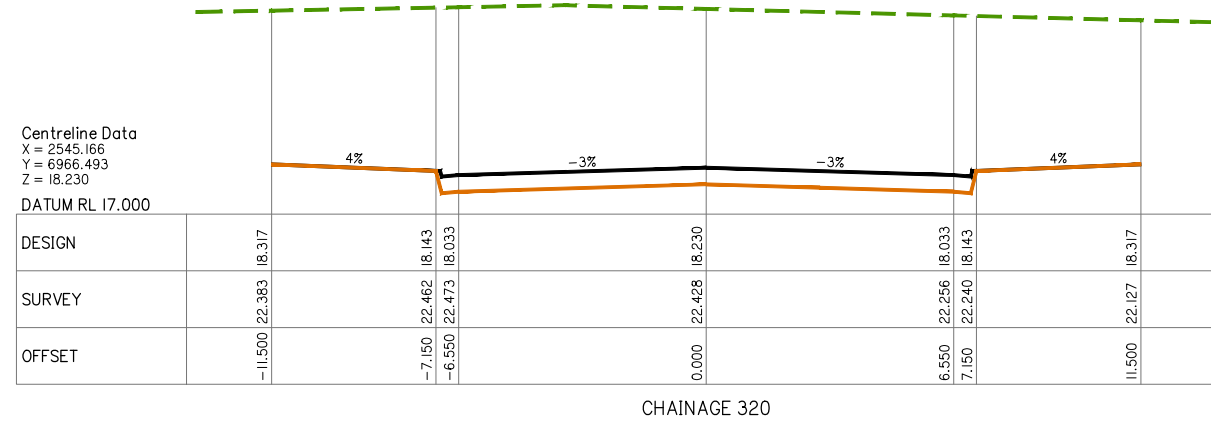
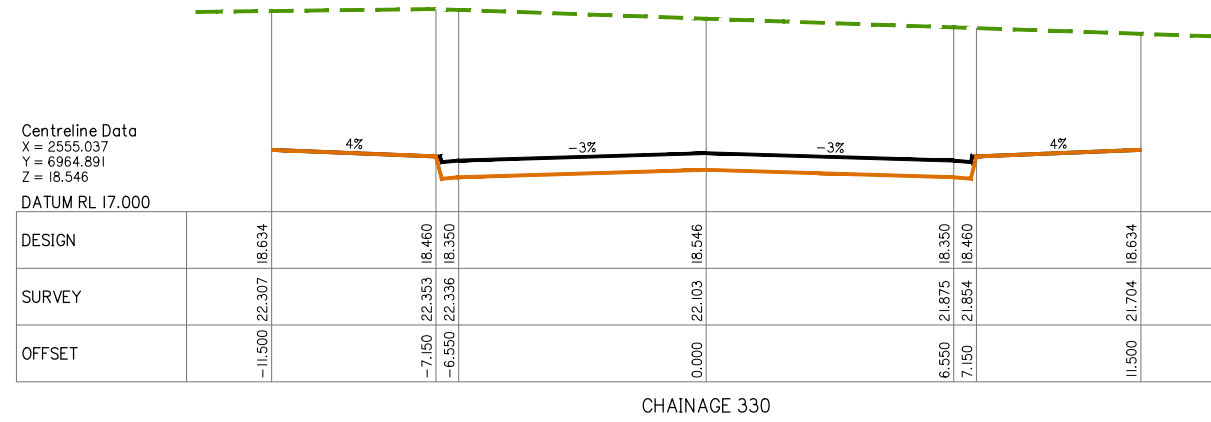
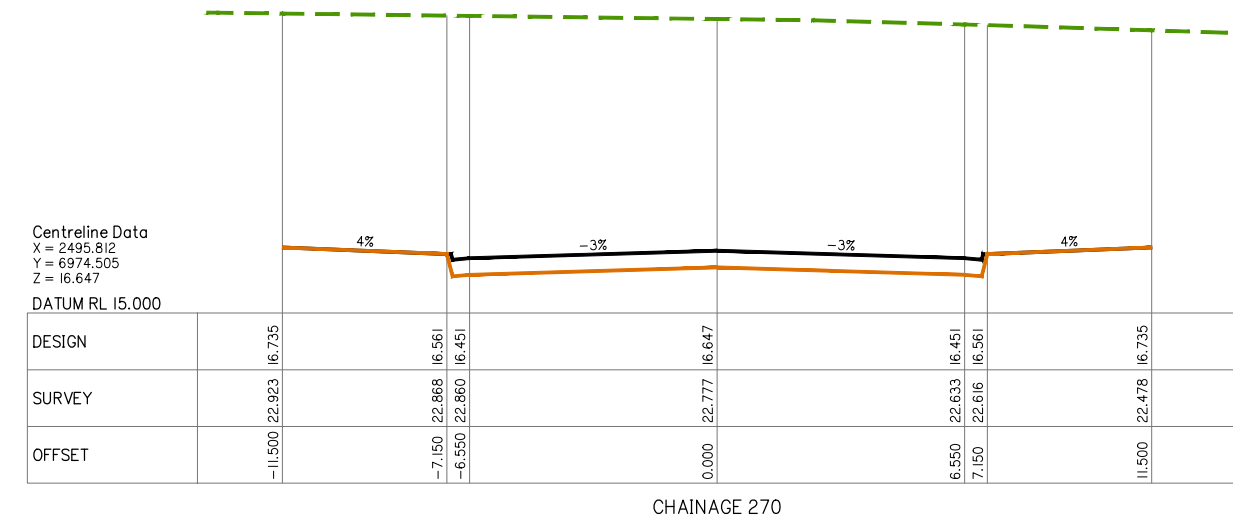
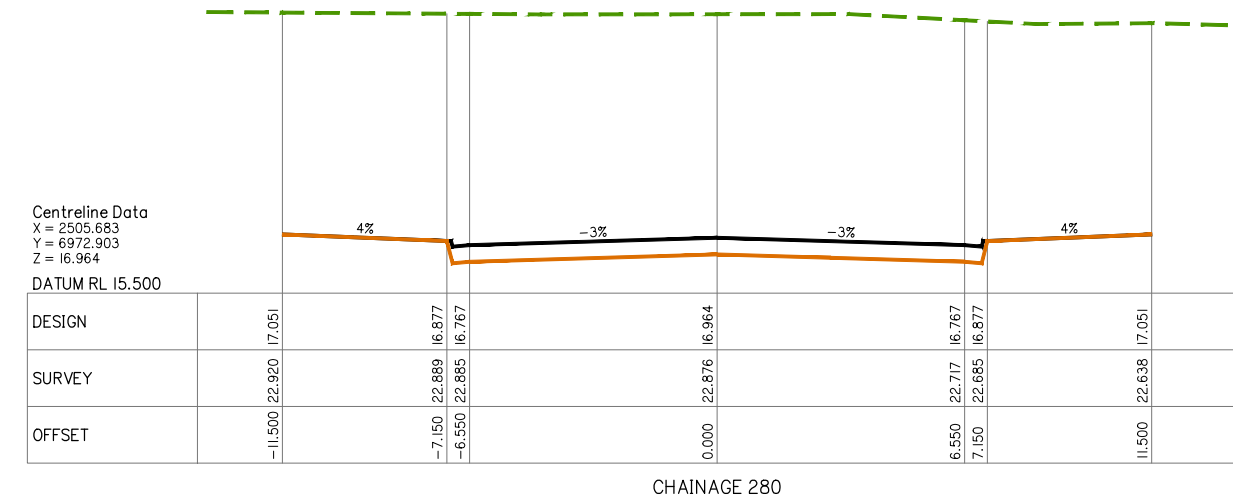
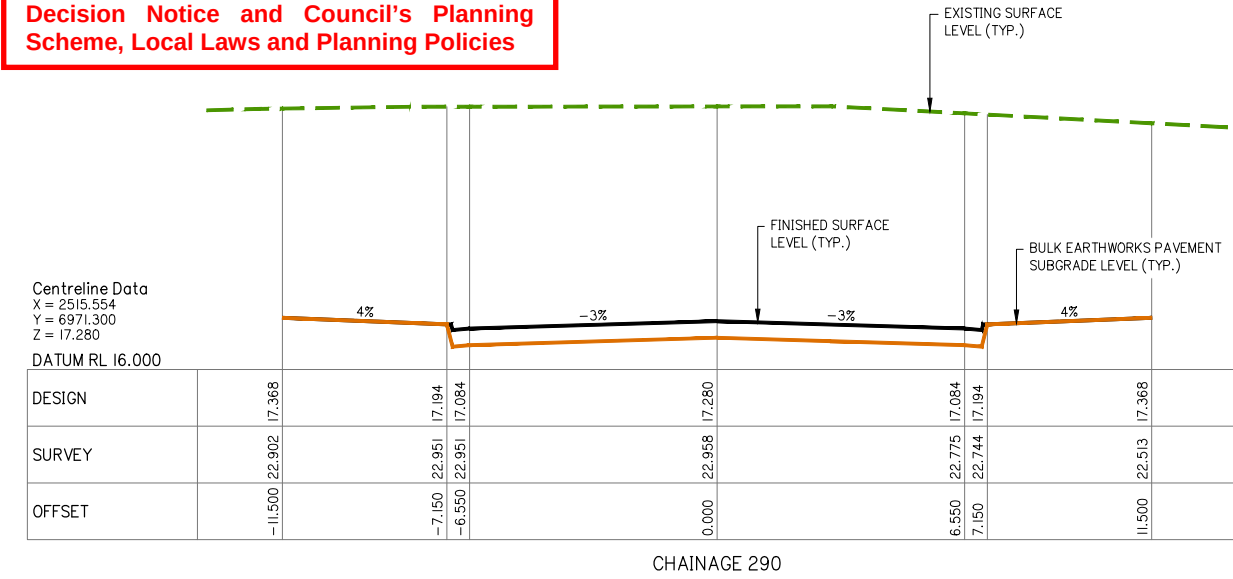
Dated: 27 April 2020

**Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies**

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



Client:



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
ROAD 02 BULK
EARTHWORKS CROSS
SECTIONS 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 1:100 - Lengths are in Metres.

HOZ: 

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:	169.39
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Signed:	
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Date:	20-02-2020
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Drawing No:	Rev. No:
5941 ENG BE1 444	B

ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 6

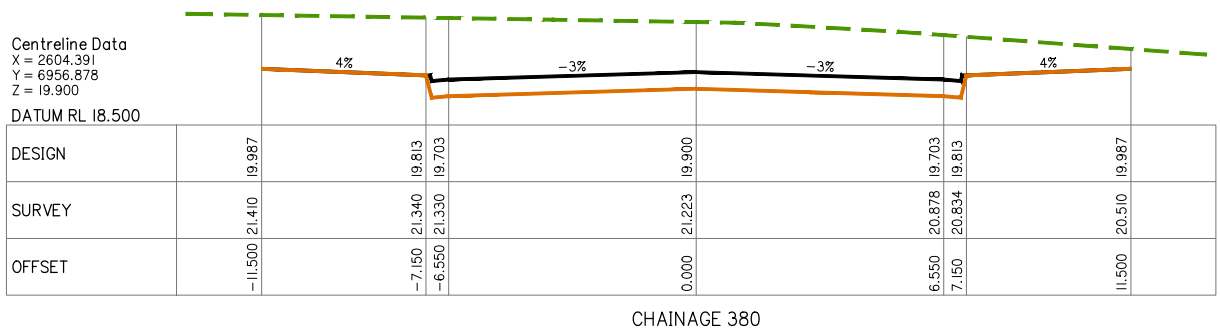
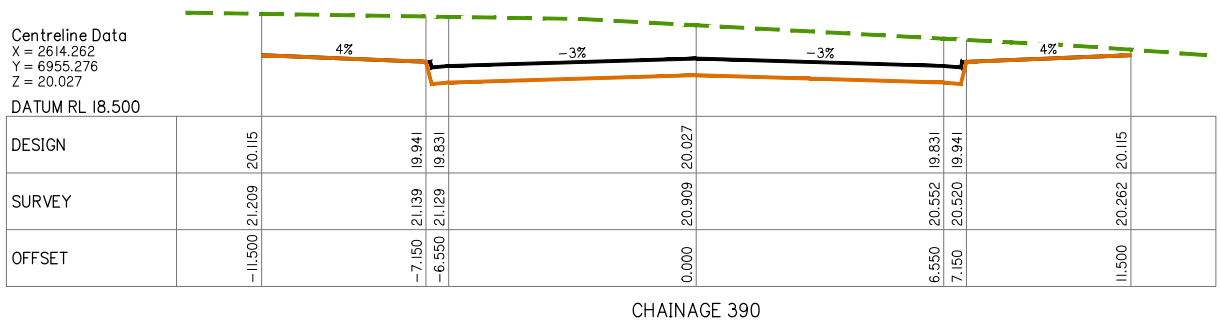
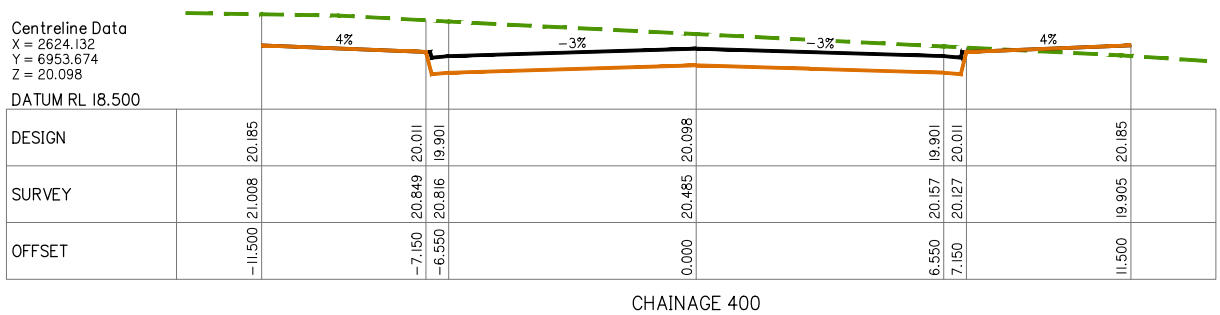
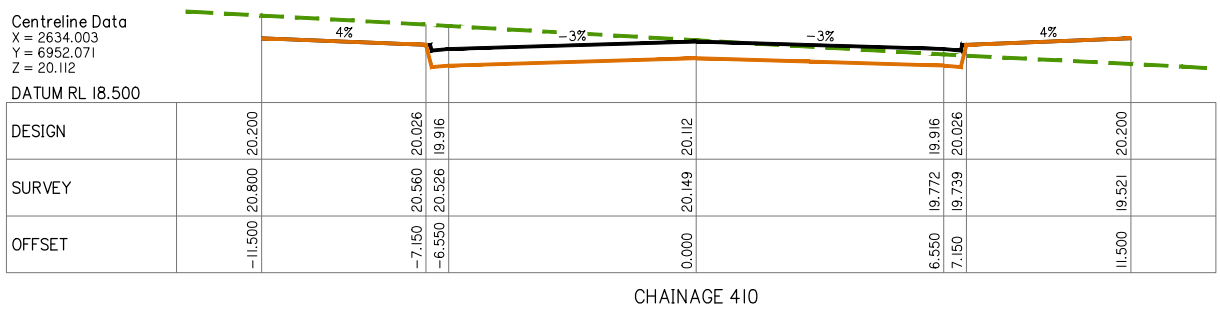
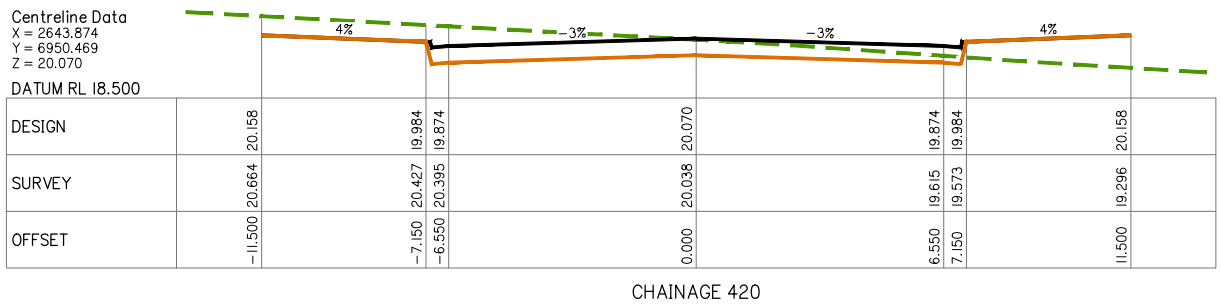
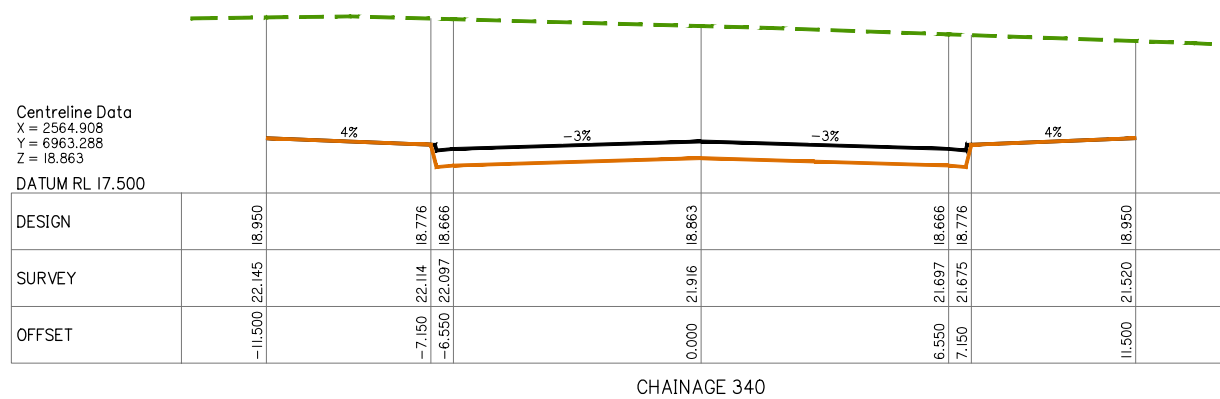
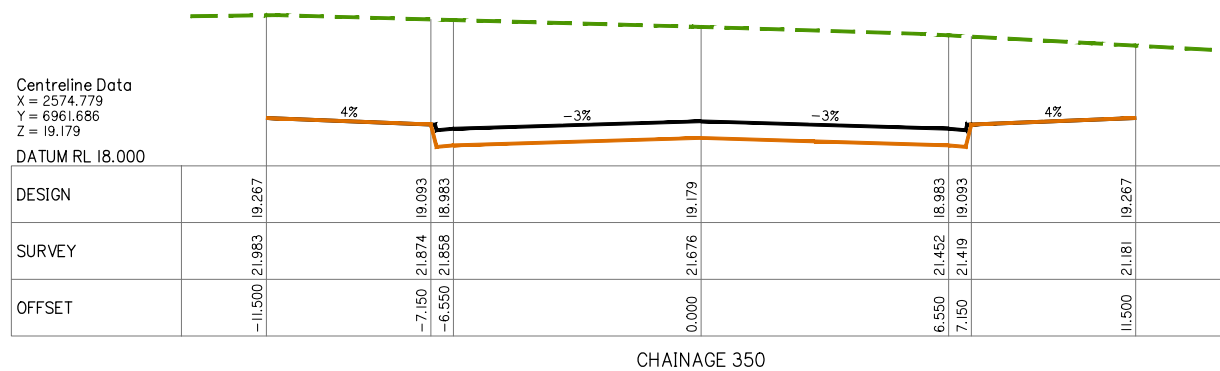
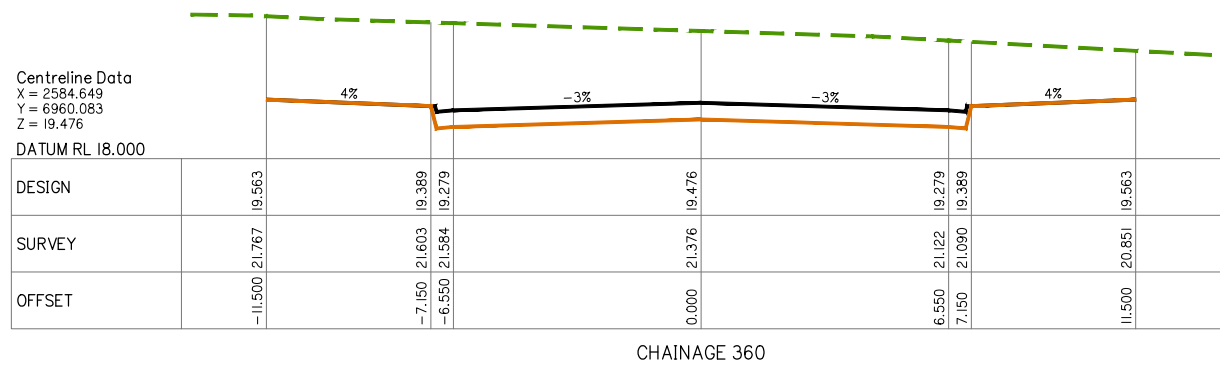
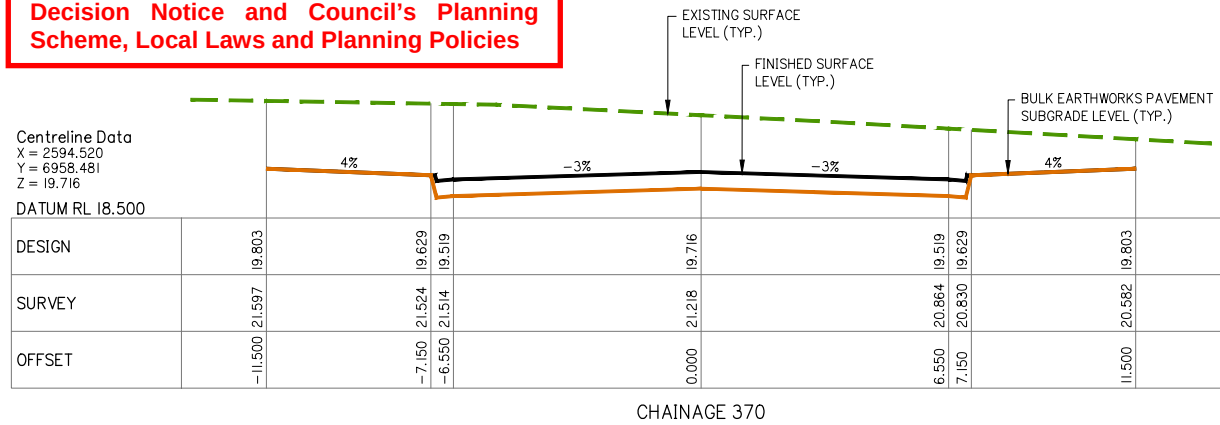
AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
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ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 6

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



planning | environment | landscape | engineering | survey
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
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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 BULK
EARTHWORKS CROSS
SECTIONS SHEET 5 OF 6

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

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 445

Rev. No:
B



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



Project: M38 INDUSTRIAL
PARK YATALA

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

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Plan:	SP295994, RP6843
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Level Datum:	AHD
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Contour Interval:	-
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DRAWING TITLE
ROAD 02 BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 OF 6

[illegible]

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ: 

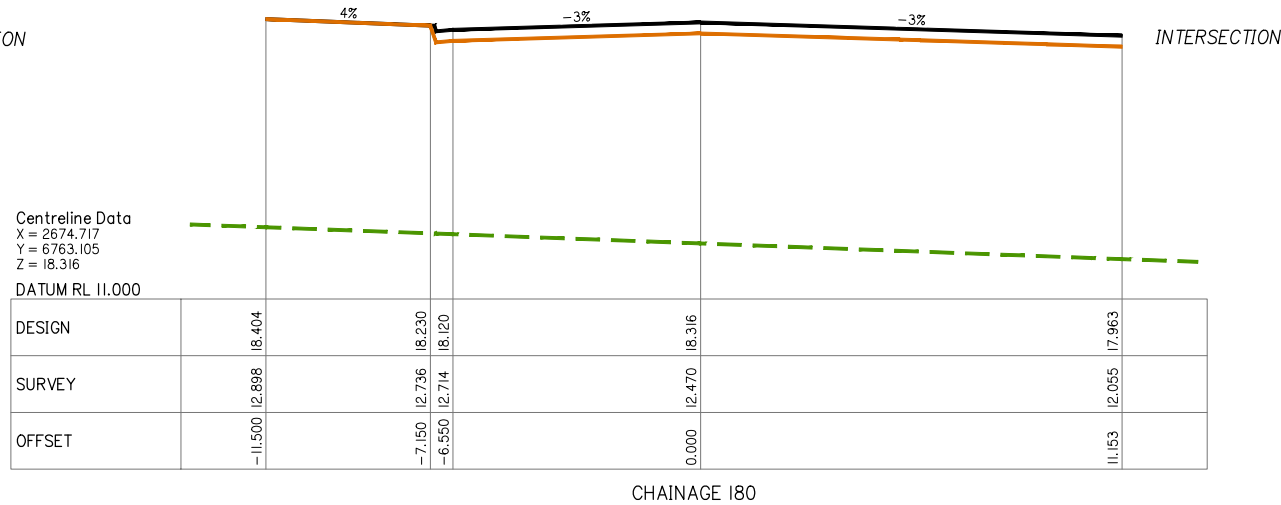
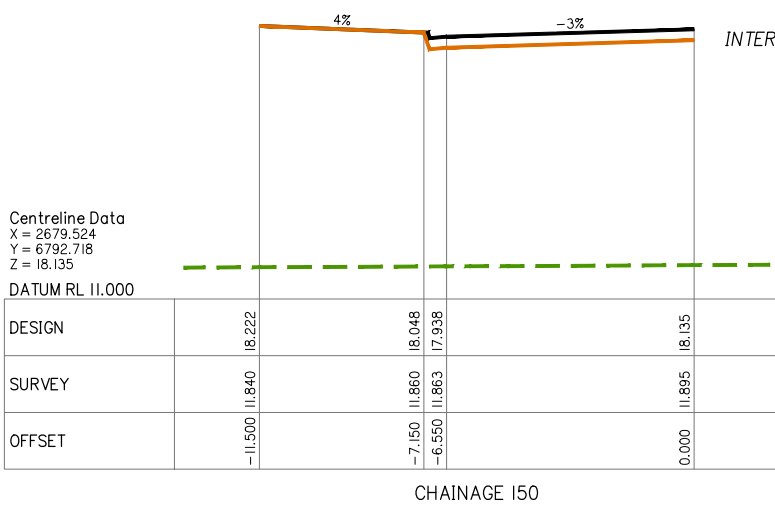
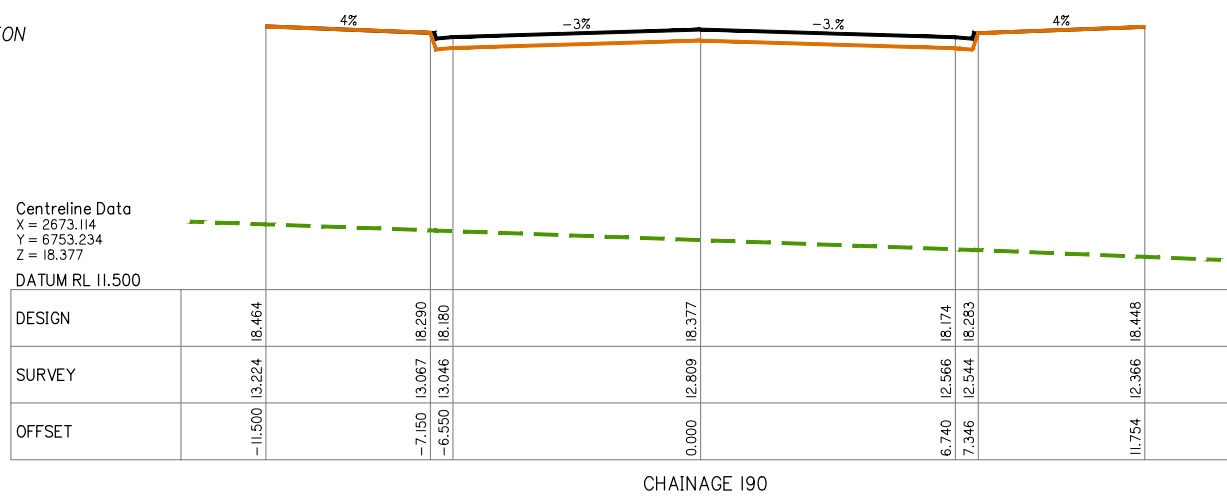
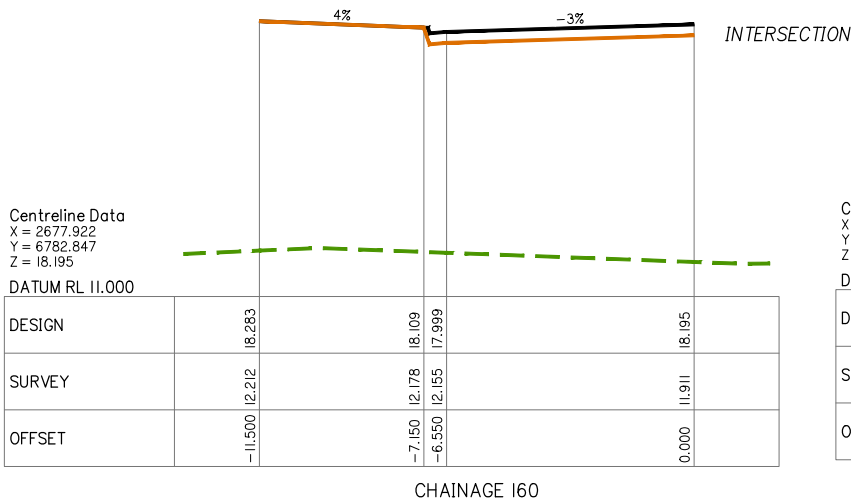
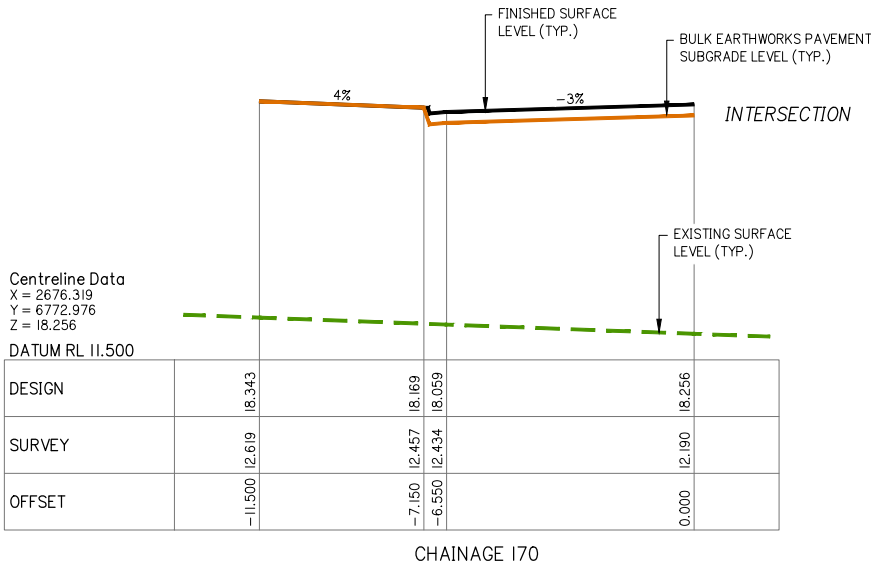
Scale 1:100 - Lengths are in Metres.

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 446	B



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

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

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
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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
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 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 449
Rev. No: B



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

DRAWING TITLE
ROAD 03 (2) BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 2

B	20-09-2020	INFORMATION REQUEST RESPONSE		IQ	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:

VERT: 

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

Drawing No:	Rev. No:
5941 ENG BE1 450	B



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

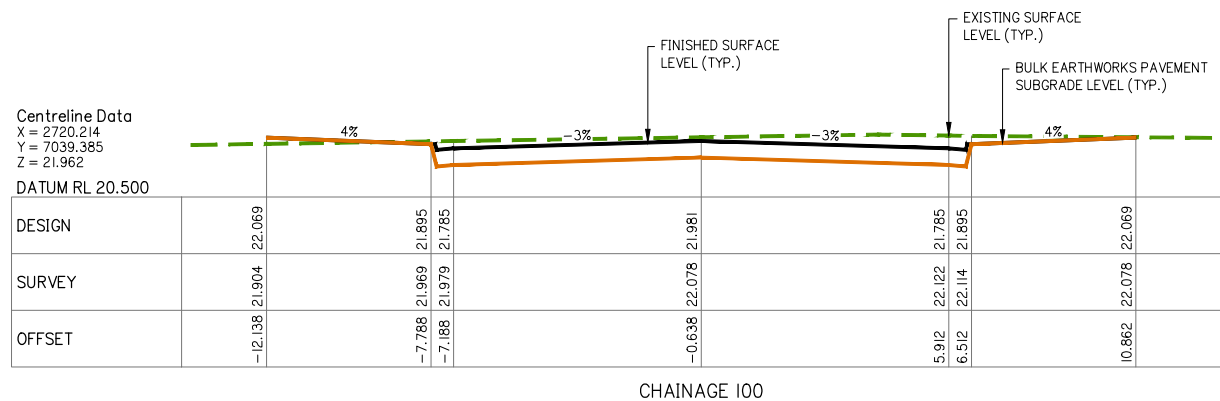
Scale 1:100 - Lengths are in Metres.

VERT:

Scale at A1: AS SHOWN

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

Drawing No:	Rev. No:
5941 ENG BE1 451	B



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

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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

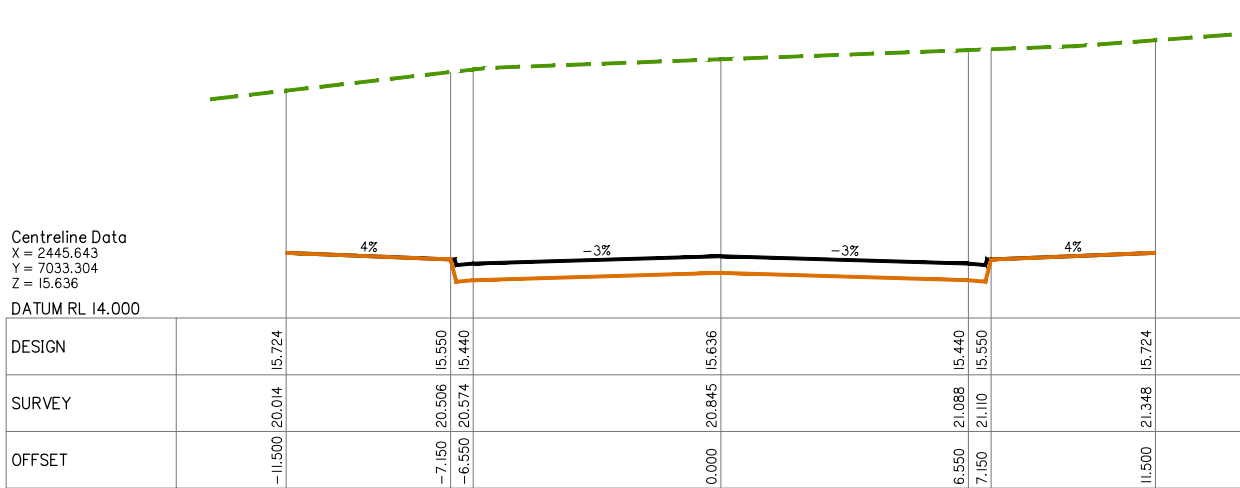
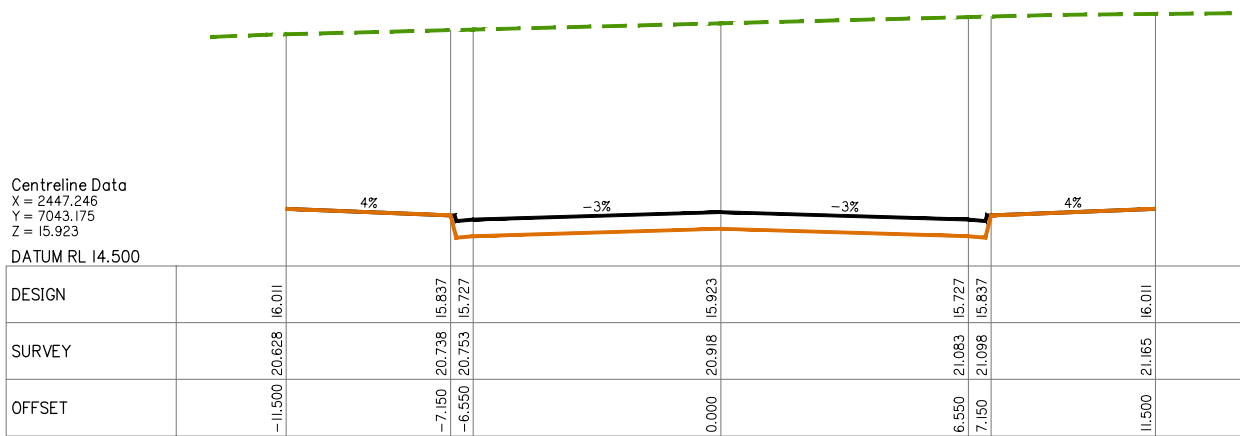
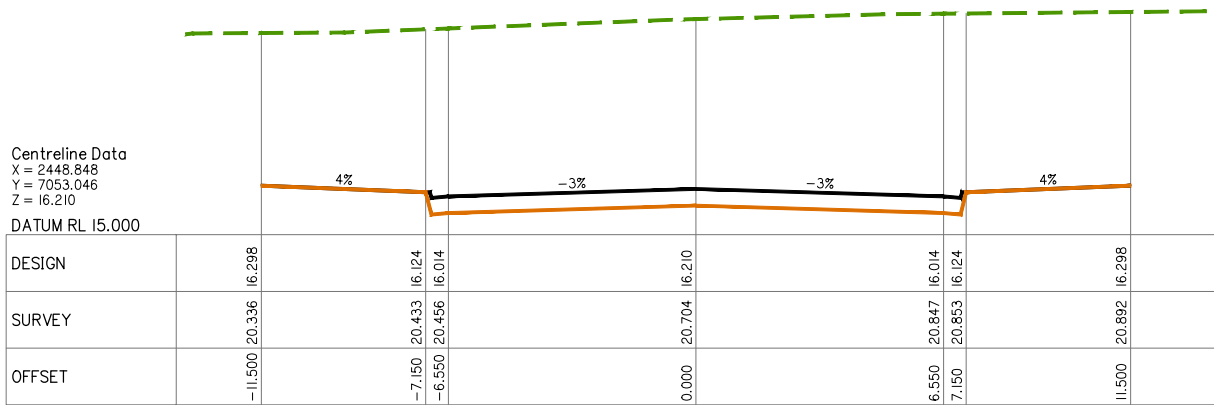
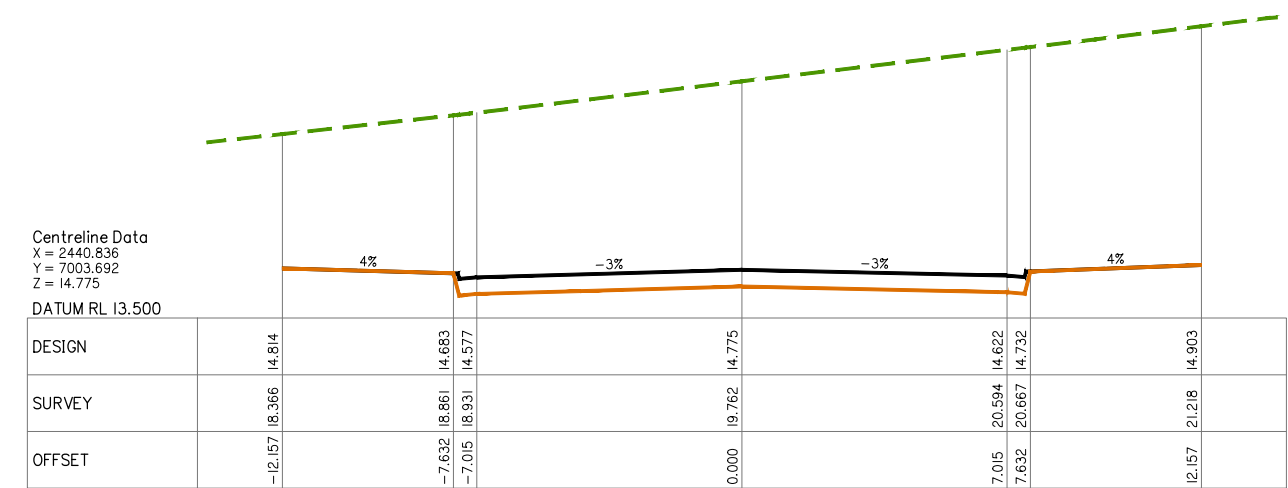
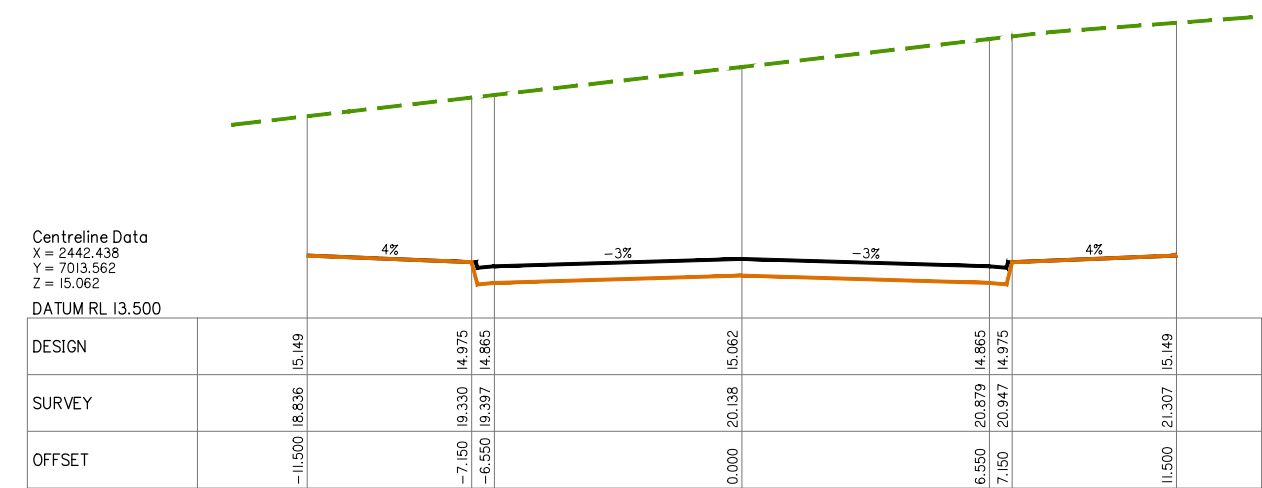
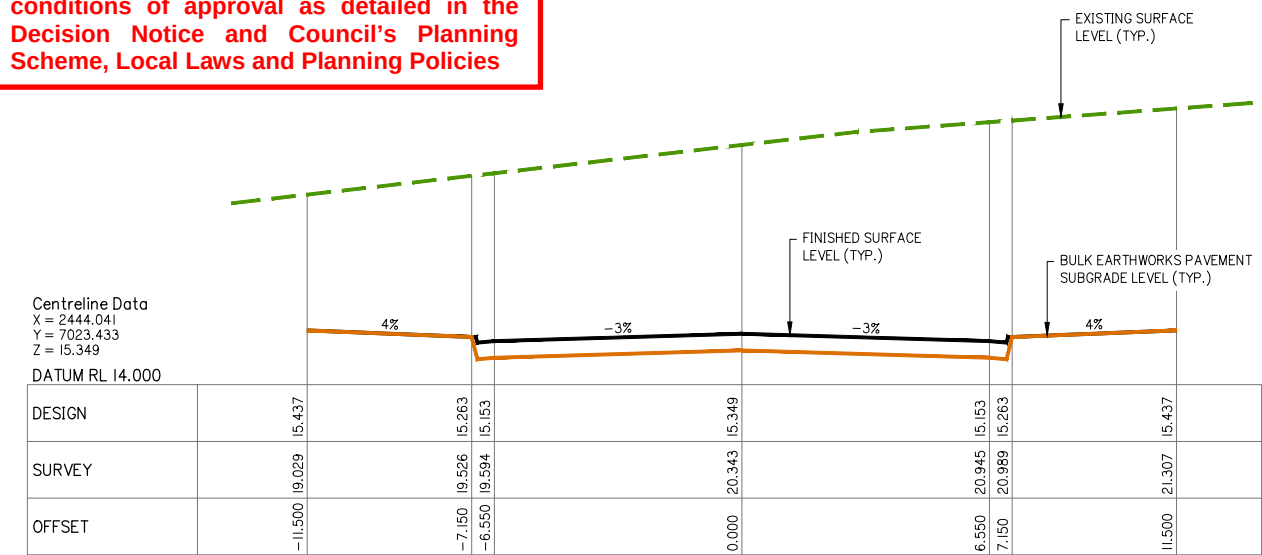
Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



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

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



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

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

SCALE IN METRES

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

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

Scale at A1: AS SHOWN

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

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5941 ENG BE1 452

Rev. No:
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Project: M38 INDUSTRIAL
PARK YATALA

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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:	-
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DRAWING TITLE
EMERI STREET EXT. BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 2

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.

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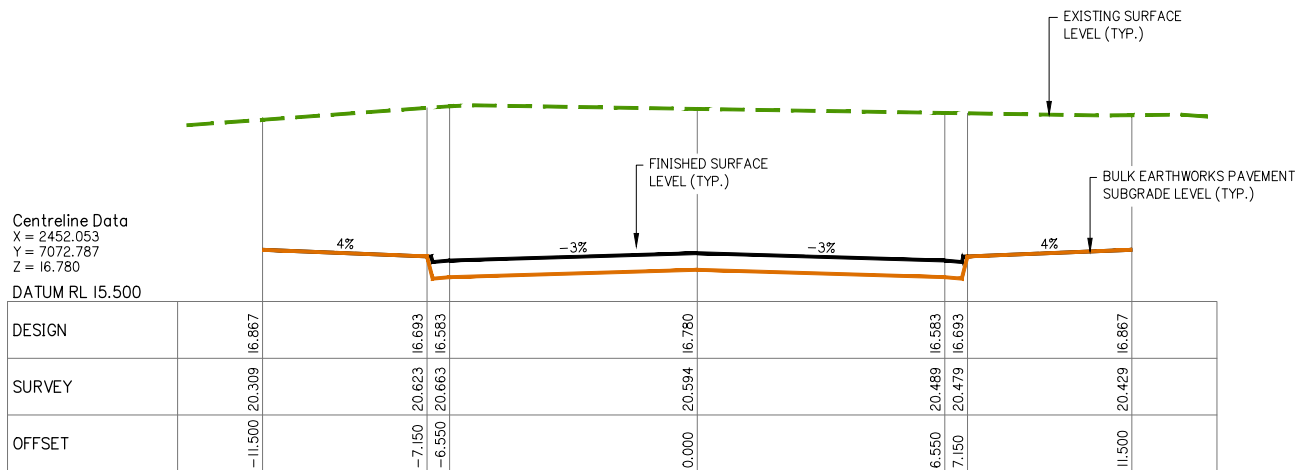
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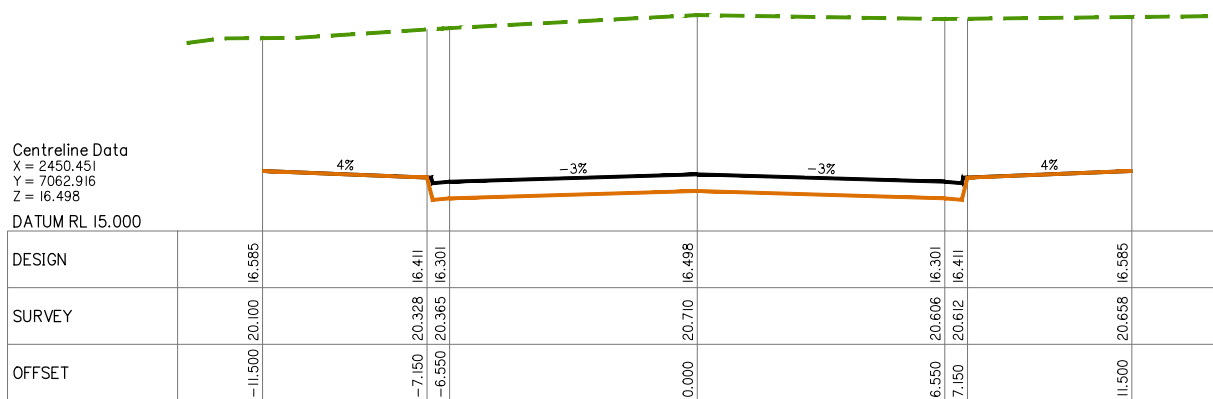
Scale at A1: AS SHOWN

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

Drawing No:	Rev. No:
5941 ENG BE1 453	B



CHAINAGE 90



CHAINAGE 80

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

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

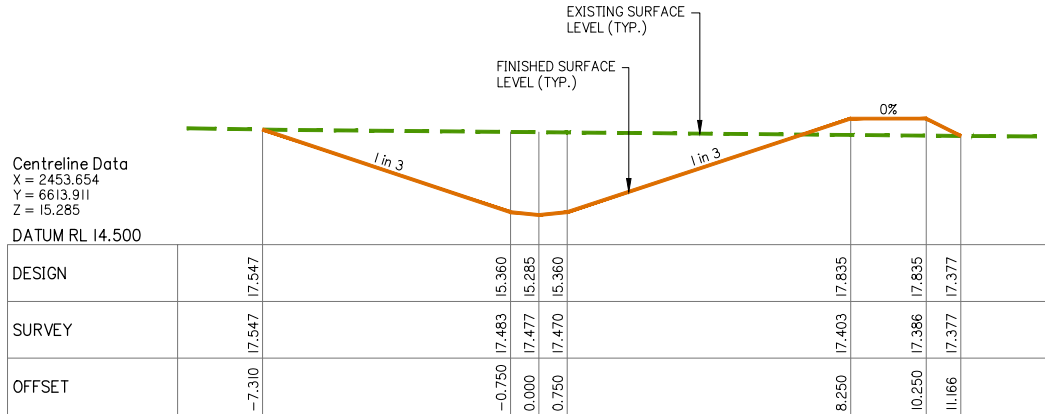
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PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

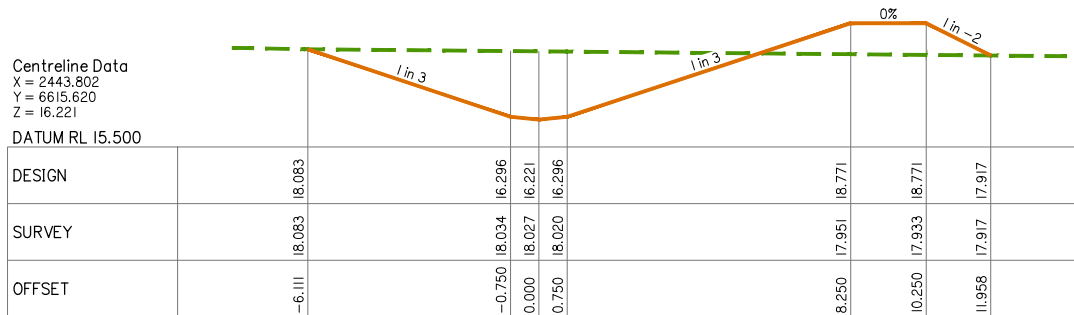
Application No: MIN/2019/761

Dated: 27 April 2020

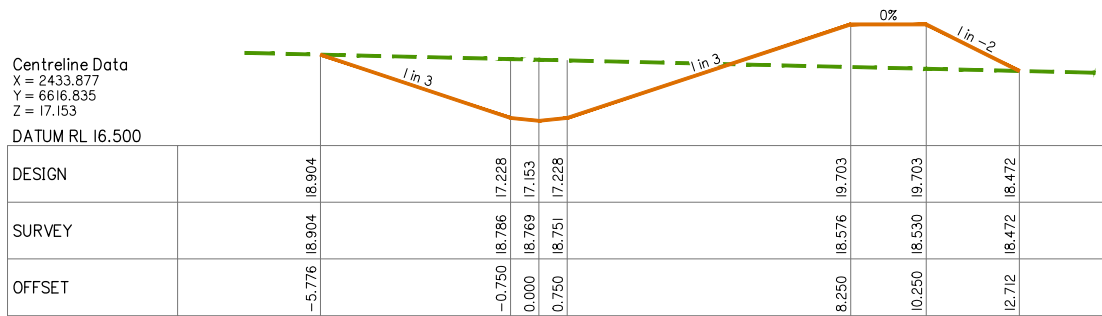
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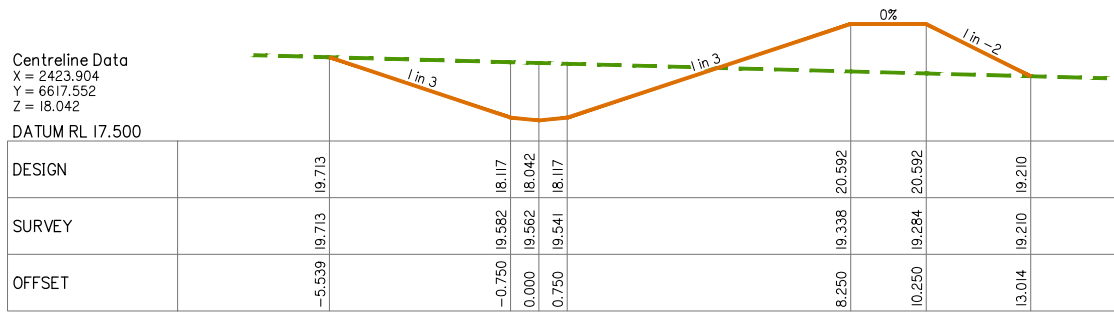
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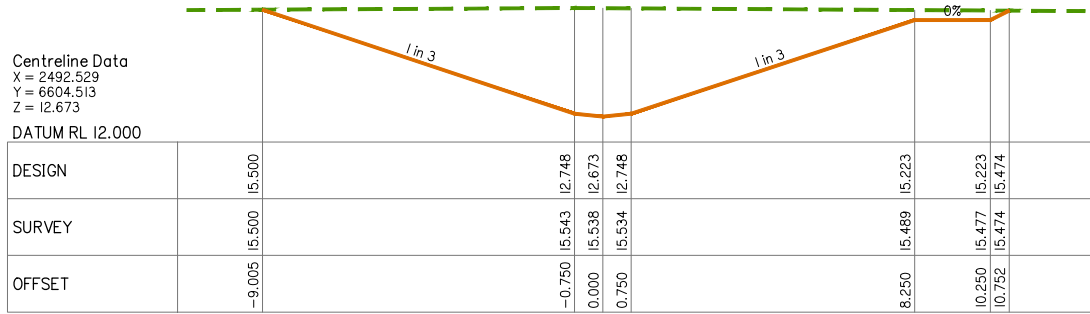
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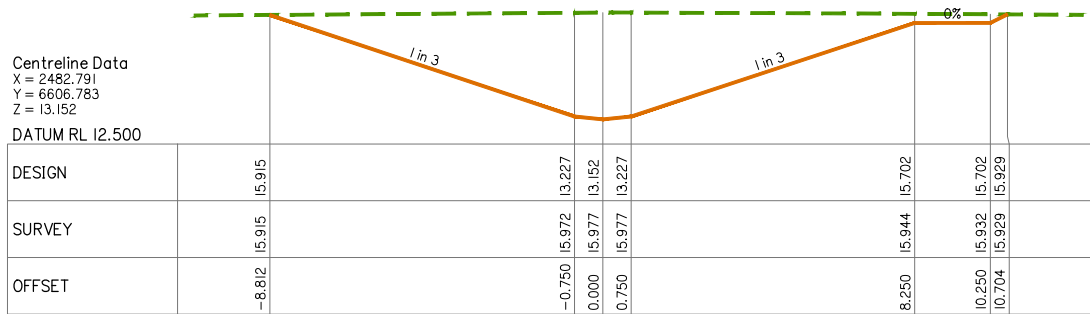
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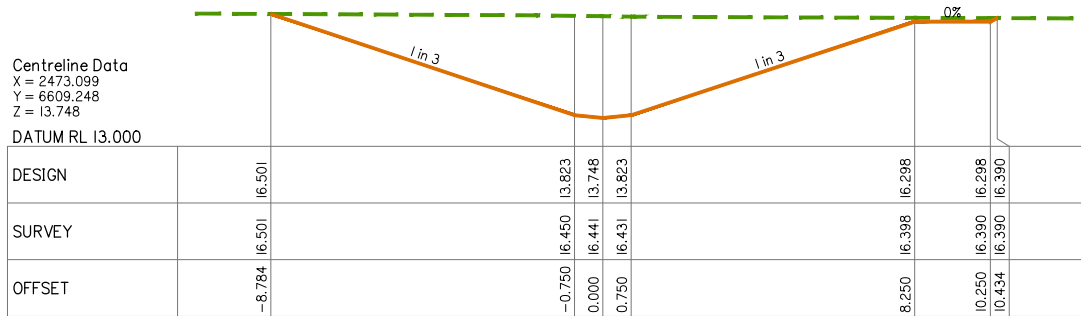
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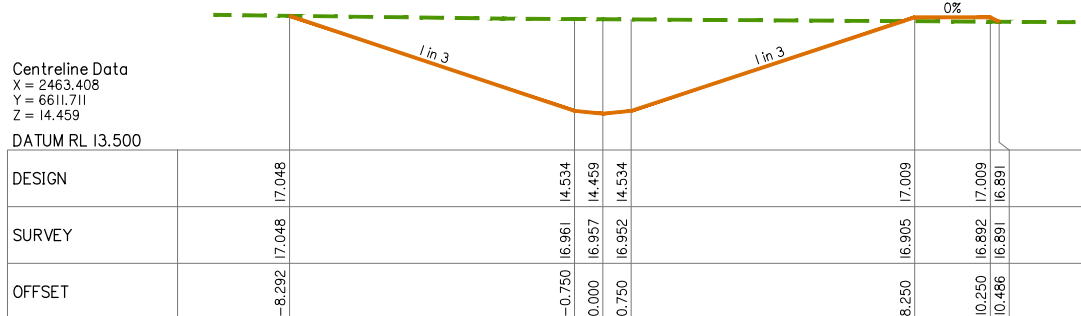
CHAINAGE 160



CHAINAGE 150



CHAINAGE 140



CHAINAGE 130

SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 11

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

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Project: M38 INDUSTRIAL
PARK YATALA

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RPD:

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

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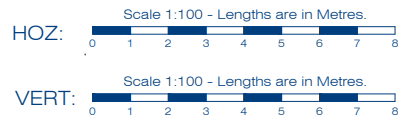
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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 11

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

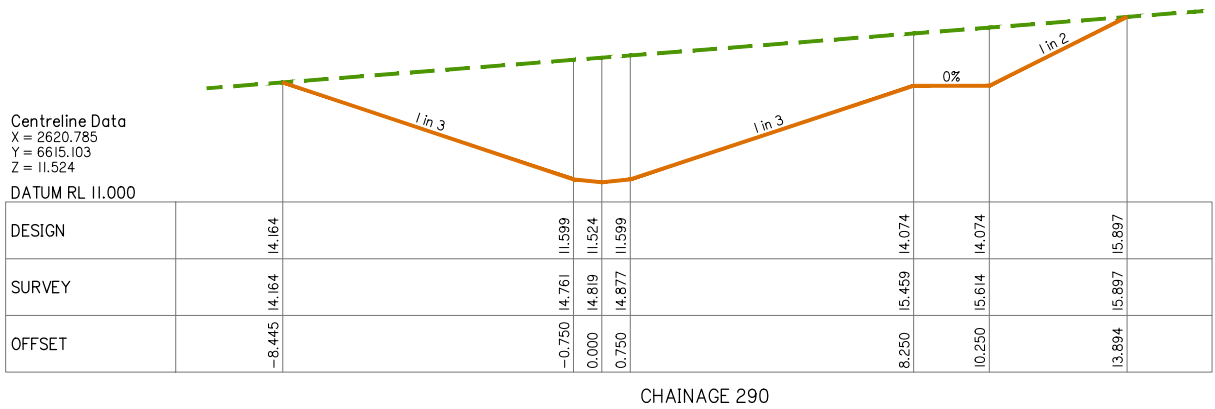
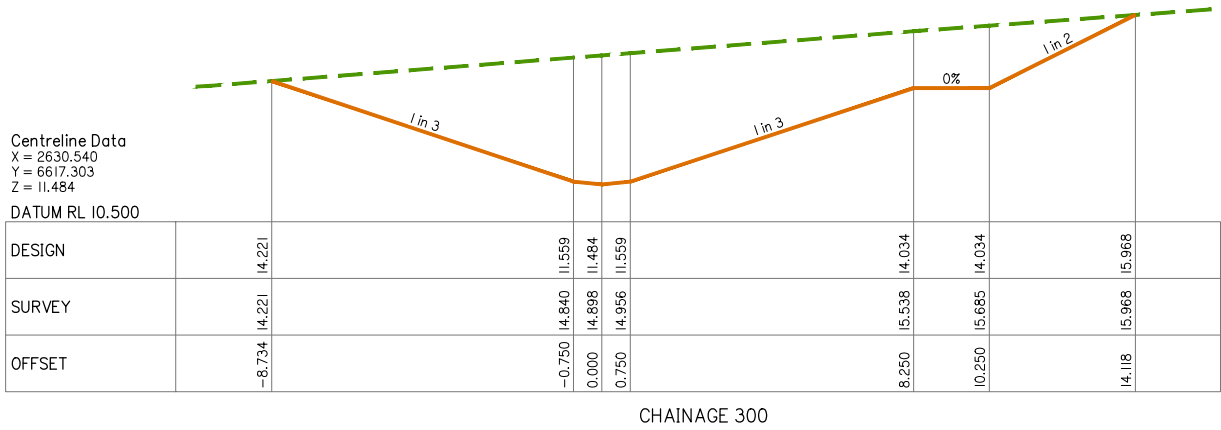
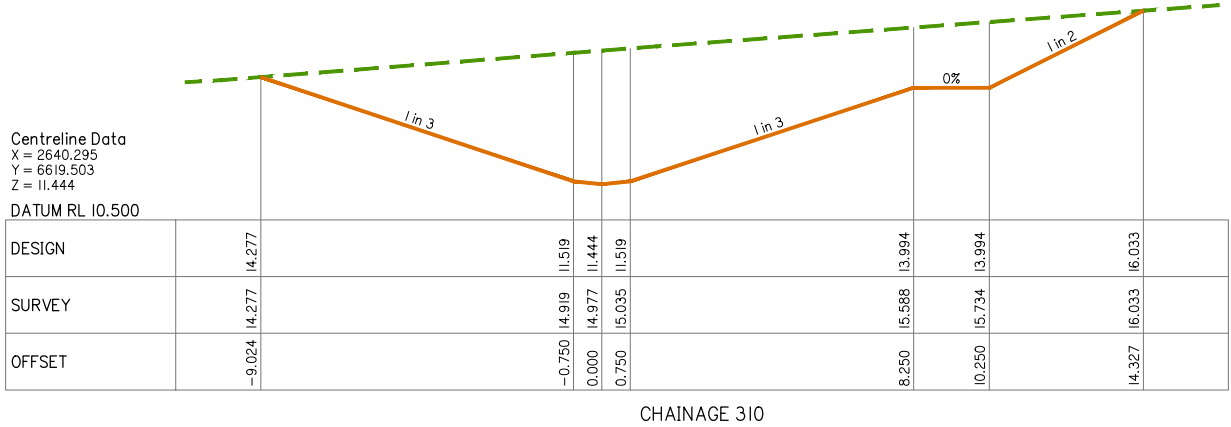
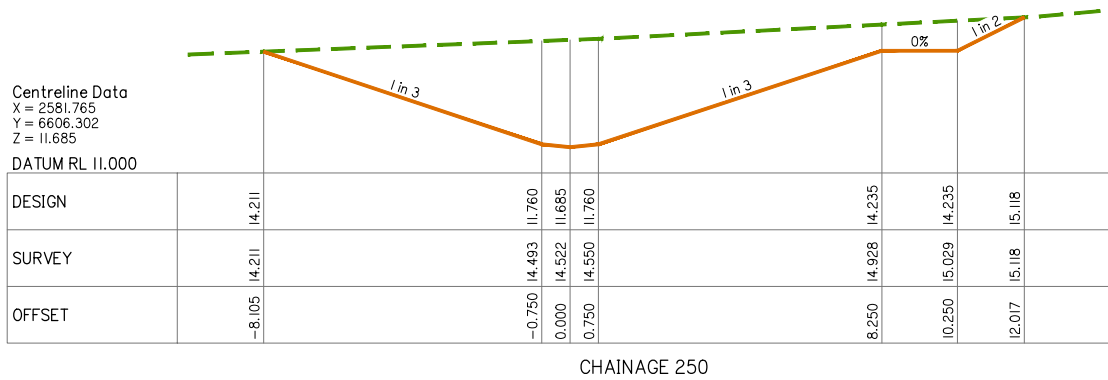
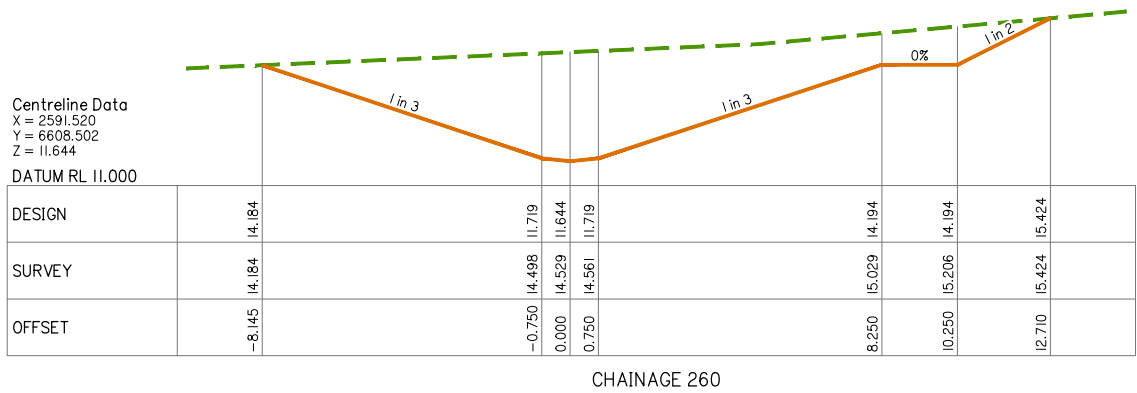
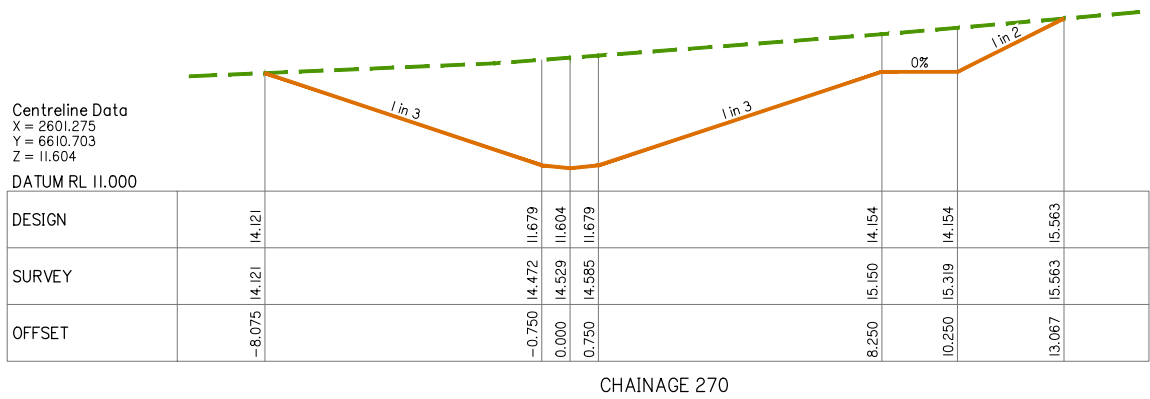
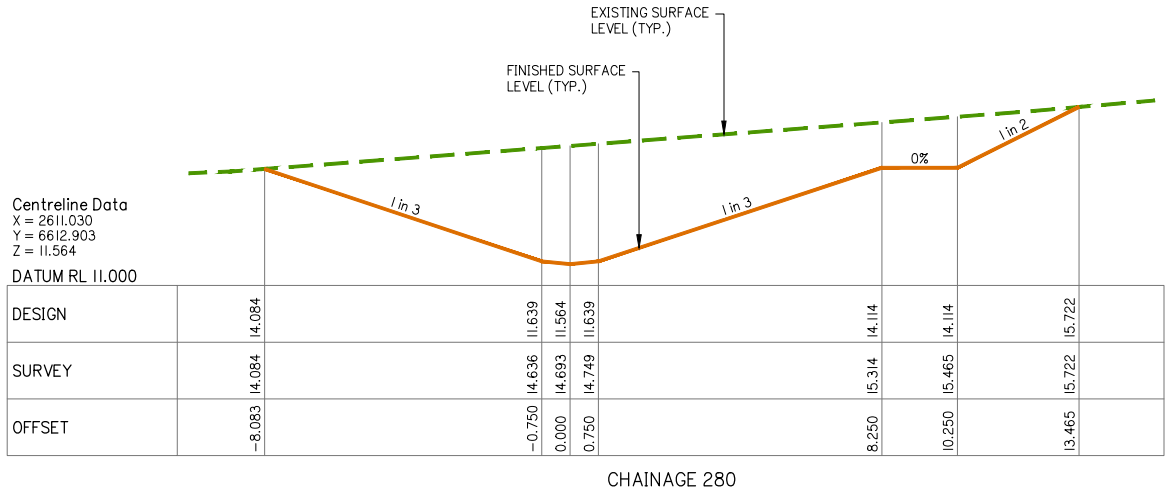


Scale at A1: AS SHOWN

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

Drawing No: 5941 ENG BE1 455
Rev. No: B

Drawing No:	Rev. No:
5941 ENG BE1 456	B



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No... MIN/2019/761

Dated: 27 April 2020

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Project: M38 INDUSTRIAL
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ROAD & 31 YELLOWWOOD
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RPD:

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

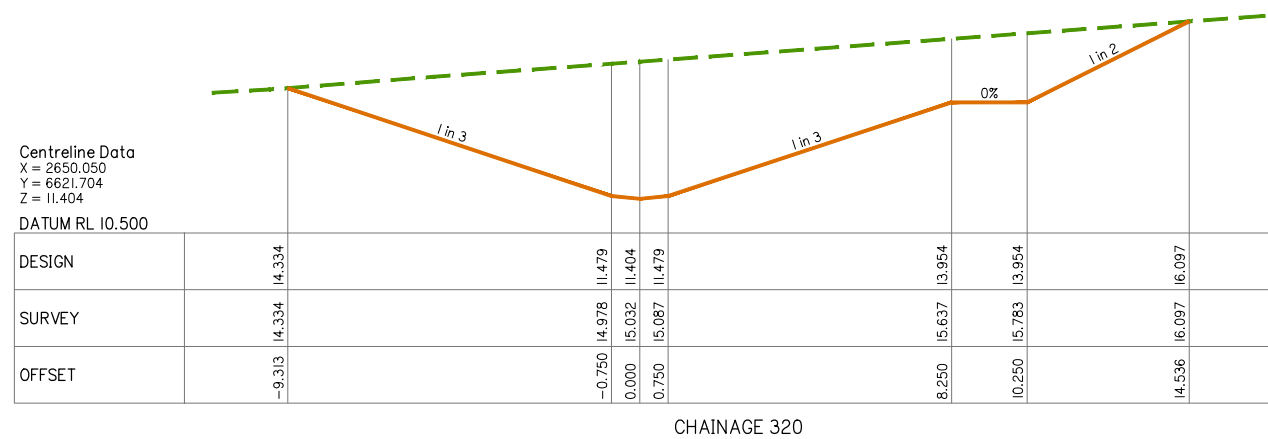
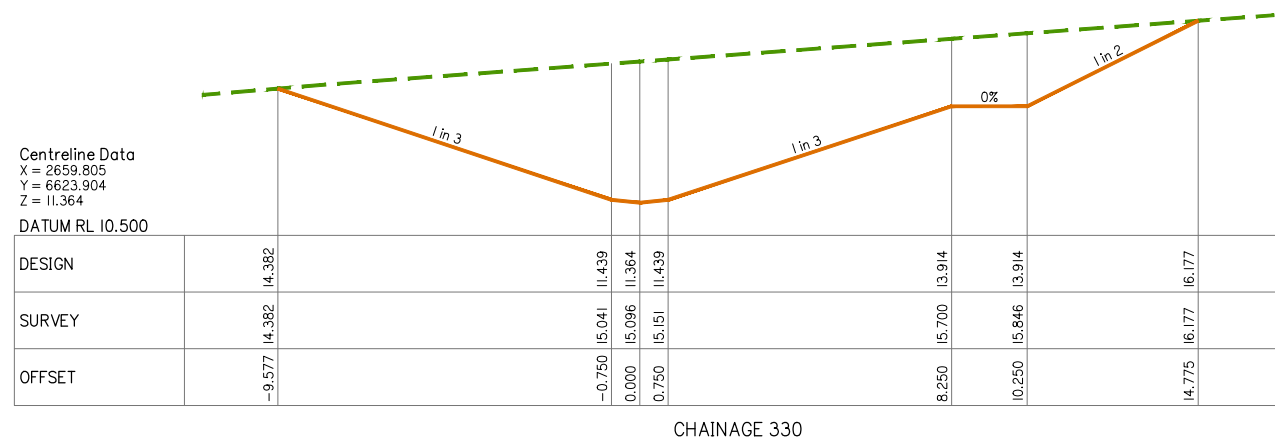
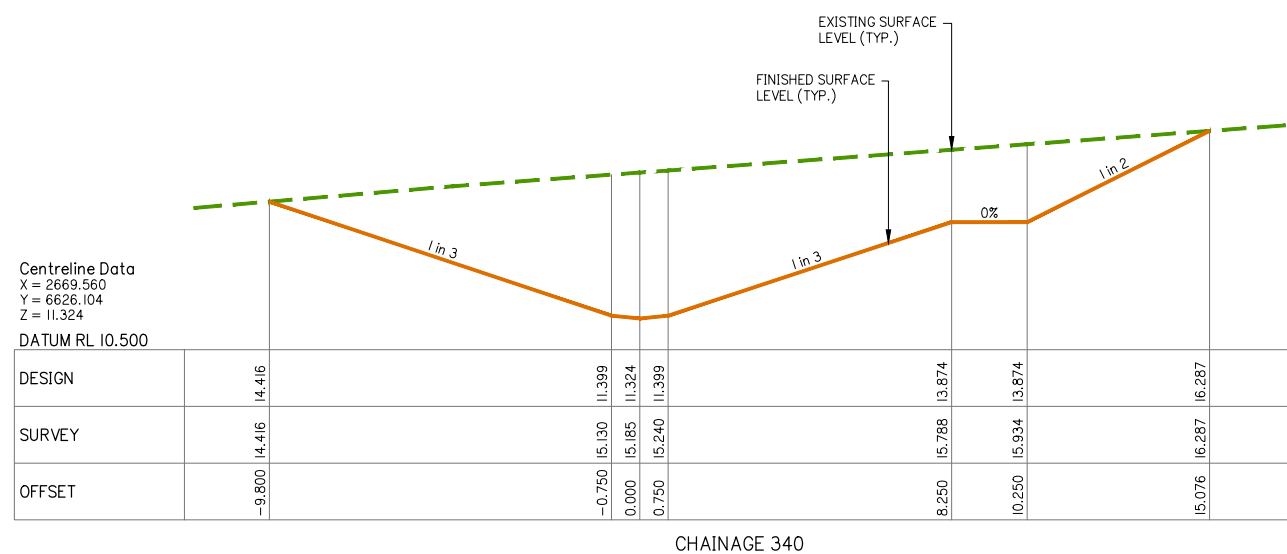
Scale at A1: AS SHOWN

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

Drawing No: 5941 ENG BE1 457
Rev. No: B

SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 4 OF 11

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



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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: -

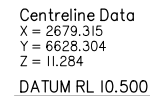
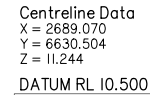
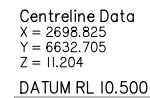
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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 5 OF 11

</					



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

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

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ROAD & 31 YELLOWWOOD
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SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 OF 11

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

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

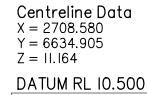
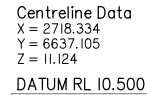
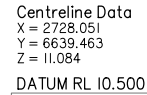
HOZ: 

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 459	B



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

Client:



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
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 7 OF 11

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

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

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

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

Client:



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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DRAWING TITLE
SWALE DRAIN A BULK
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	

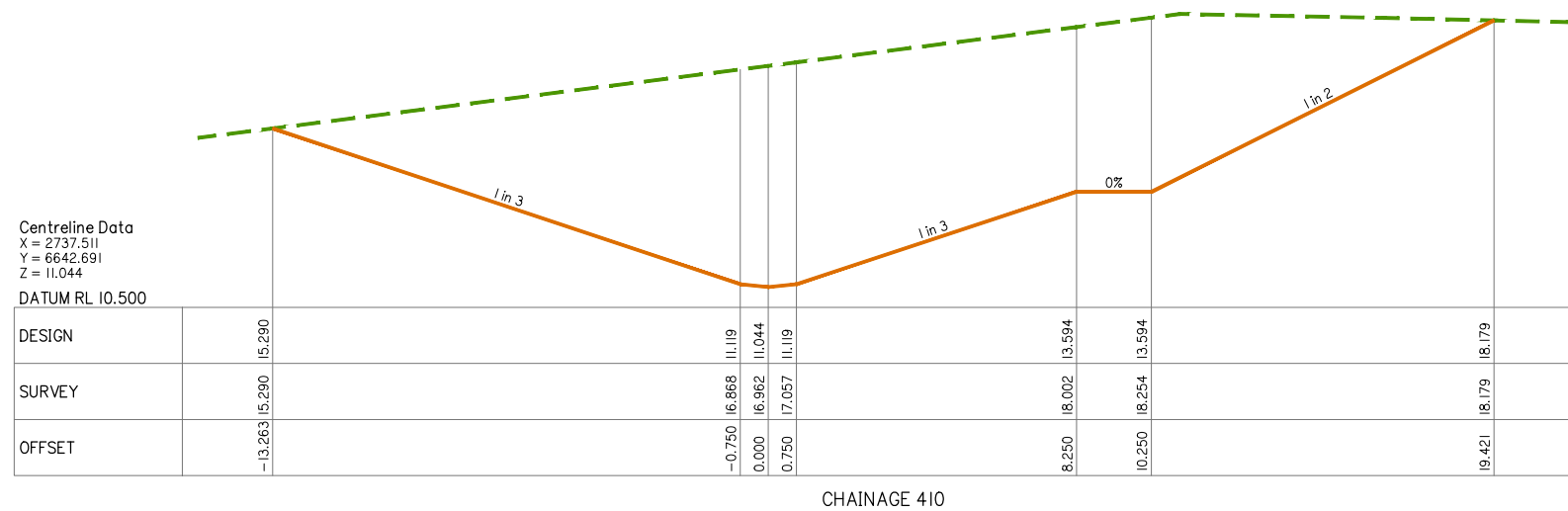
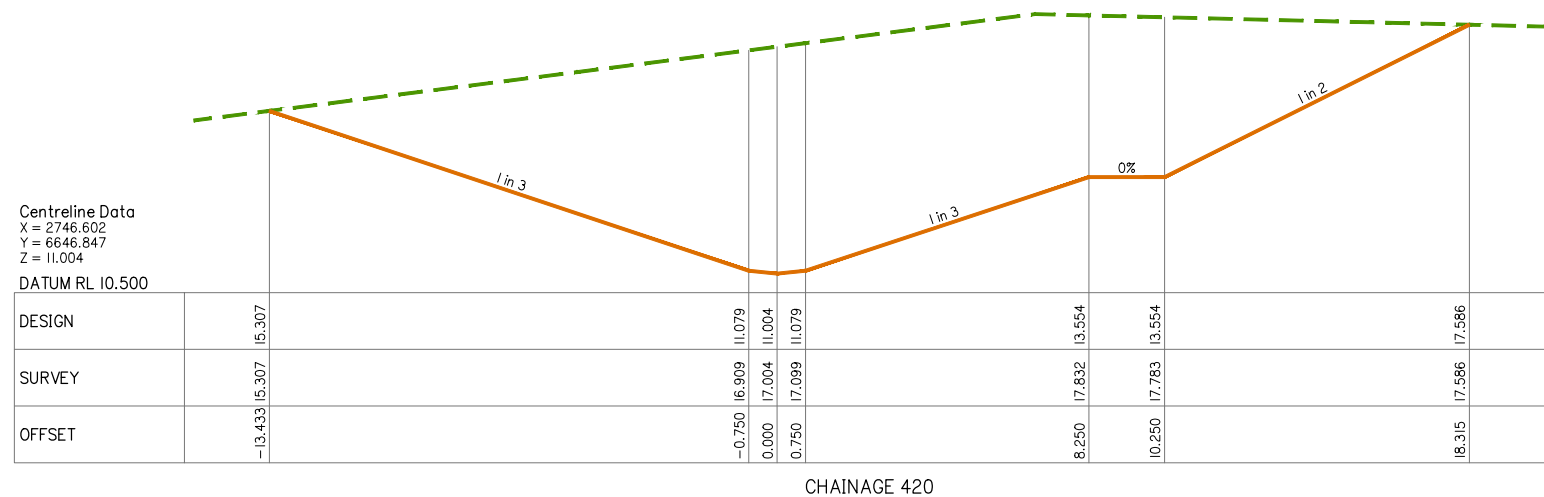
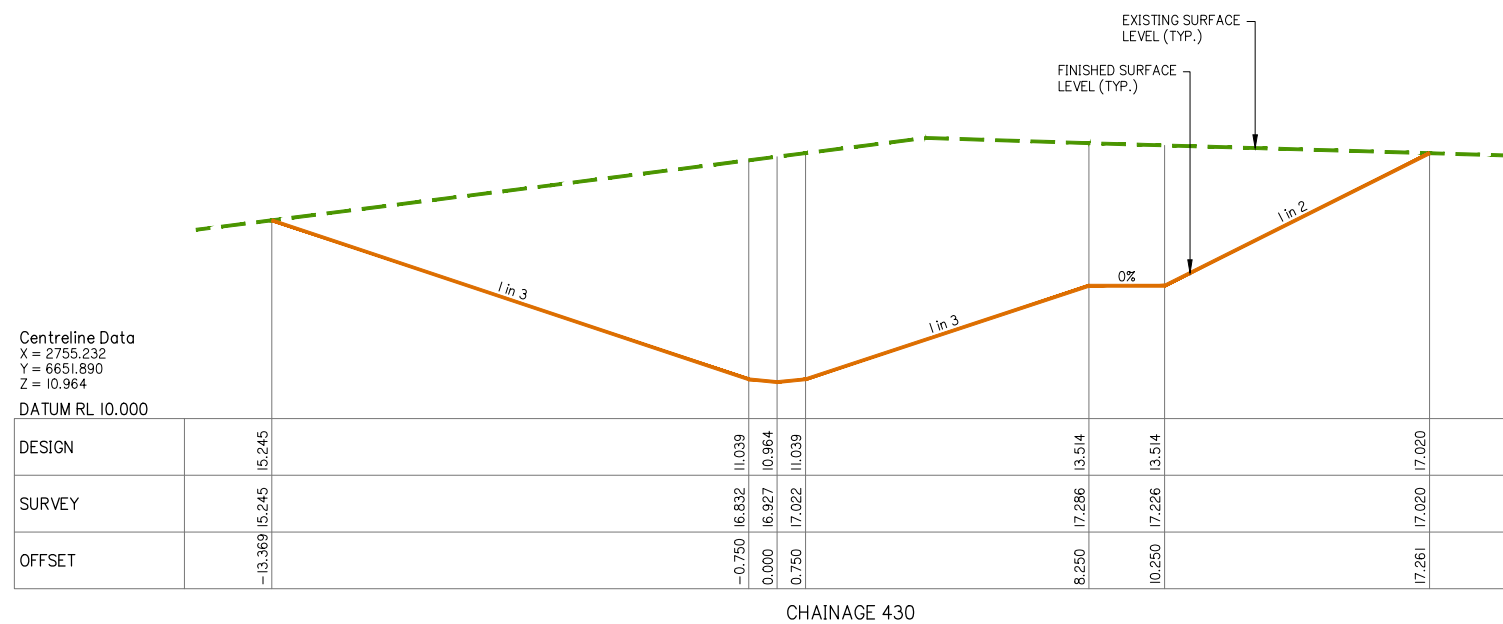
SCALE IN METRES

Scale 1:100 - 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 461 Rev. No: B



SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 8 OF 11

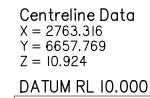
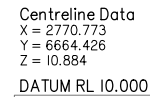
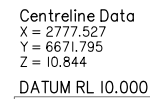
A1 HORZ SCALE 1: 100
A1 VERT SCALE 1: 100

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies



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

Client:



FRASERS PROPERTY
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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 9 OF 11

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 1:100 - Lengths are in Metres.

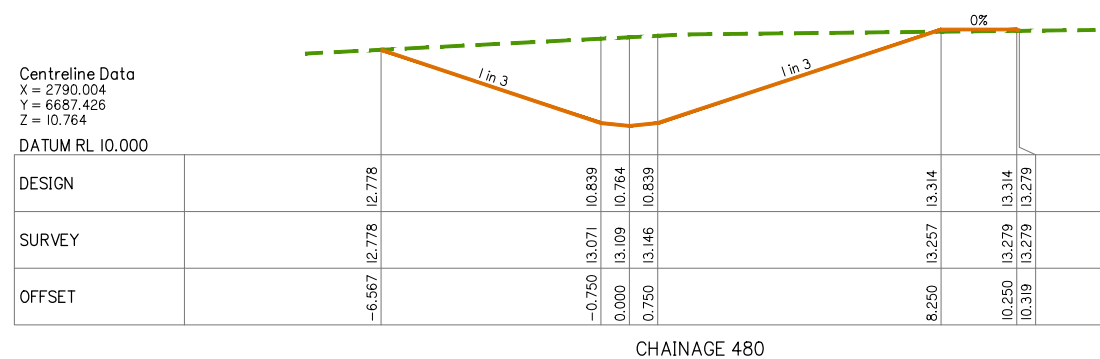
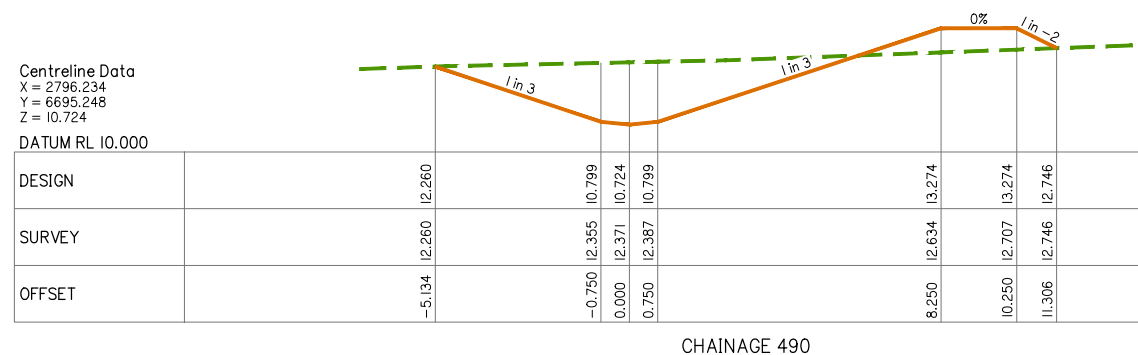
HOZ: 

VERT: 

Scale at A1:	AS SHOWN
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Designed:	IG
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DRAWING TITLE
SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 10 OF 11

B	20-09-2020	INFORMATION REQUEST RESPONSE	IQ	MU
A	20-12-2019	ORIGINAL ISSUE	JFG	MO
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
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

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5941 ENG BE1 463

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PARK YATALA

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SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 11 OF 11

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

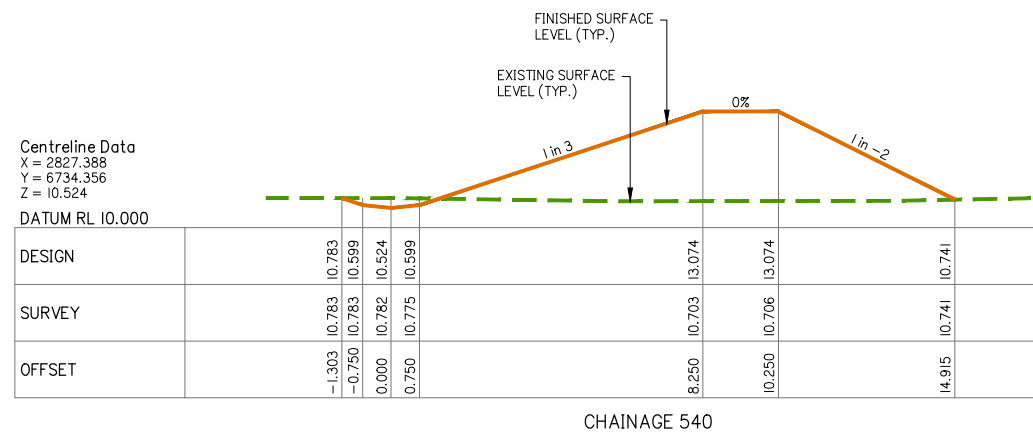
SCALE IN METRES

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

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Date:	20-02-2020

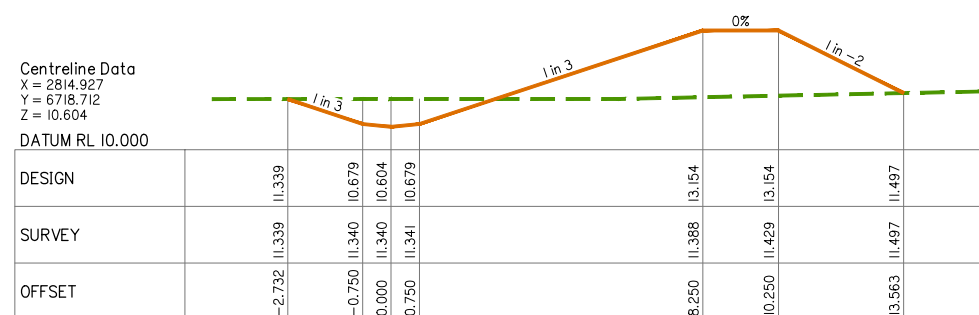
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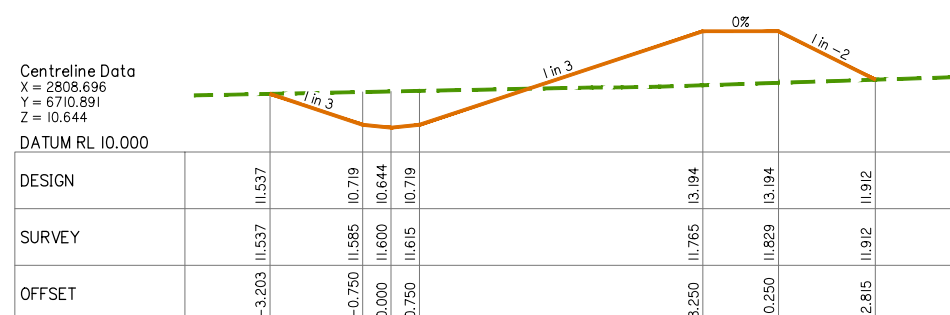
CHAINAGE 540



CHAINAGE 530



CHAINAGE 520



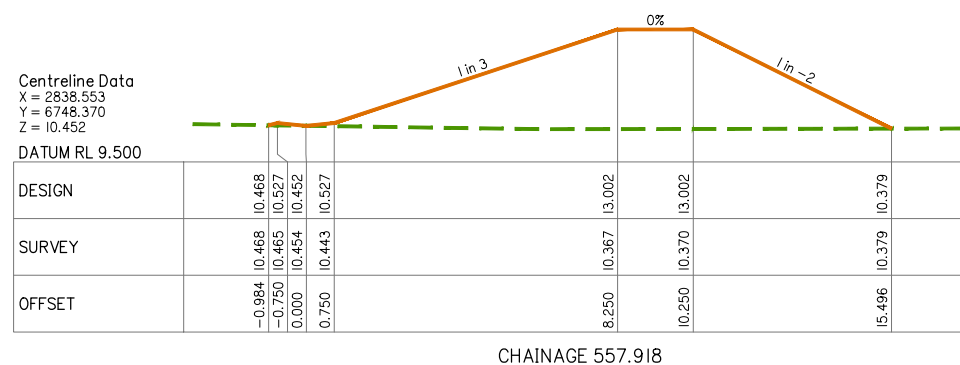
CHAINAGE 510

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

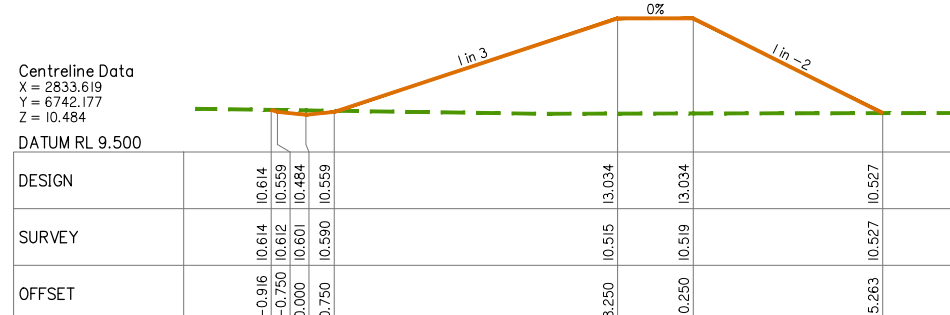
Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies



CHAINAGE 557.918



CHAINAGE 550

SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 11 OF 11

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



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

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	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.

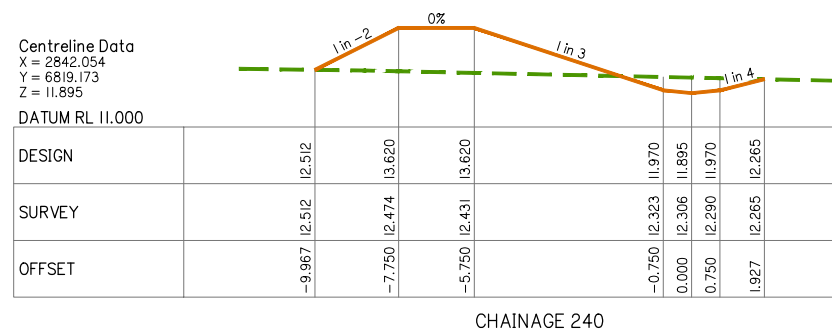
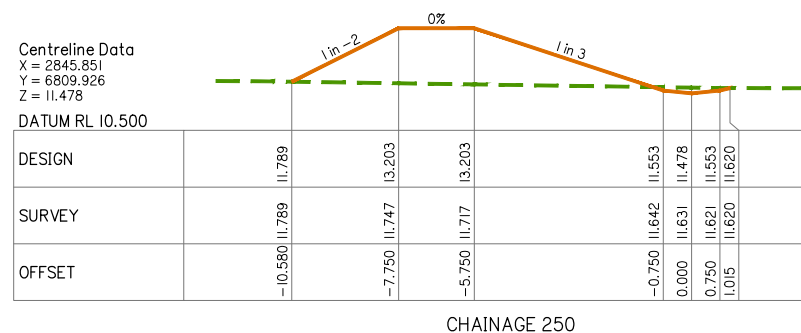
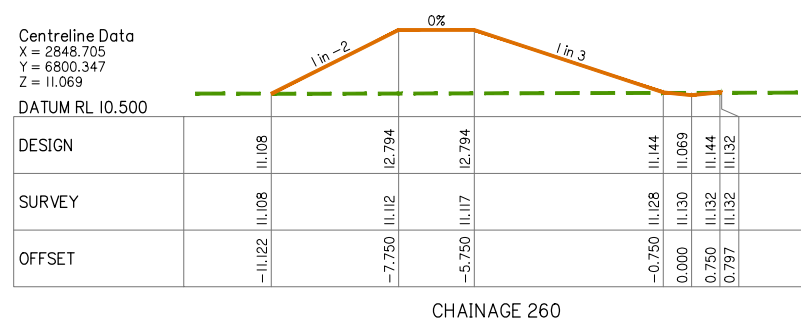
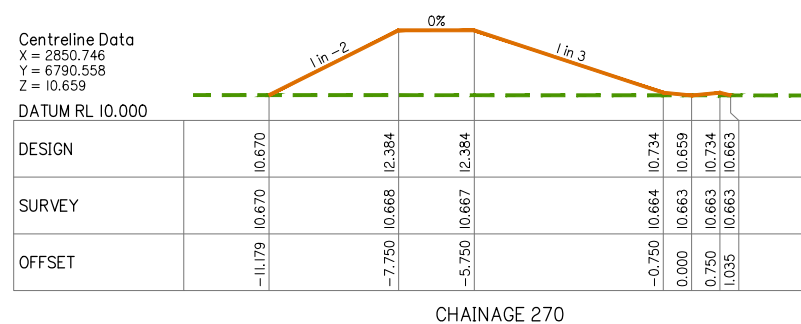
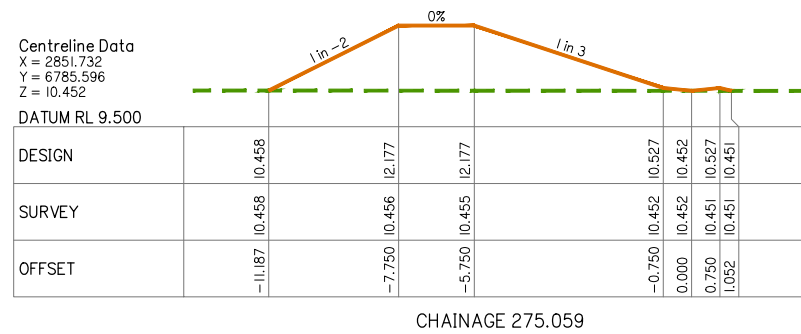
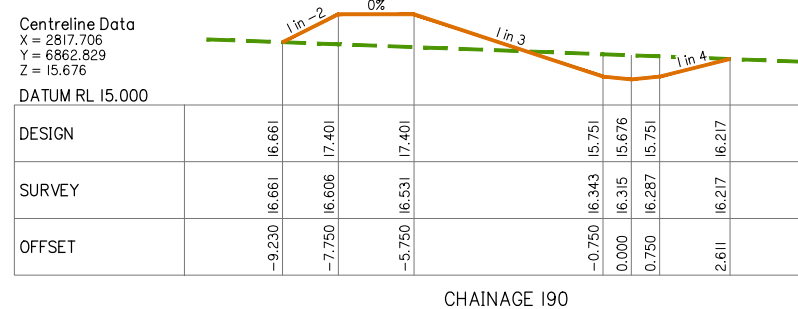
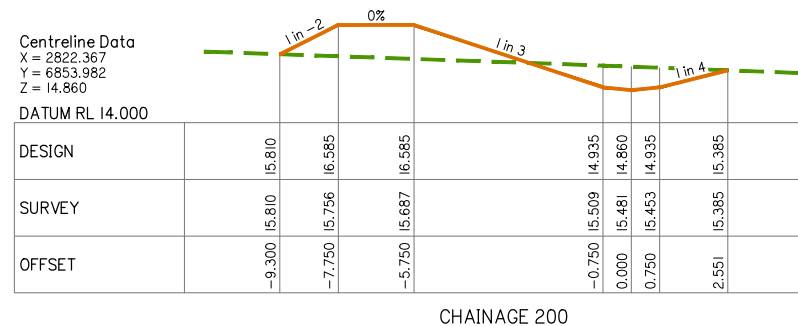
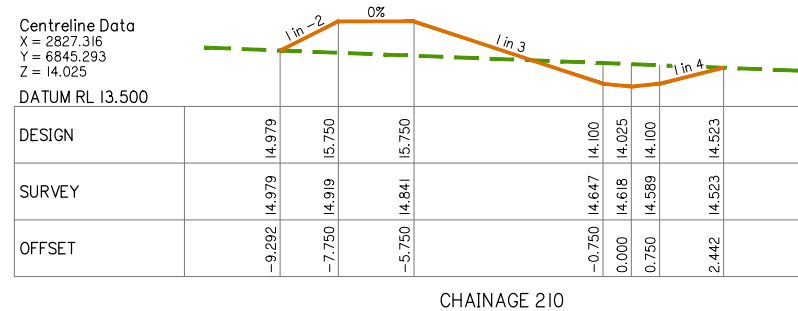
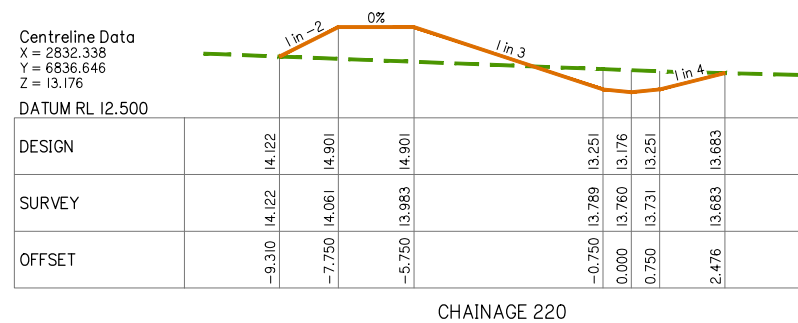
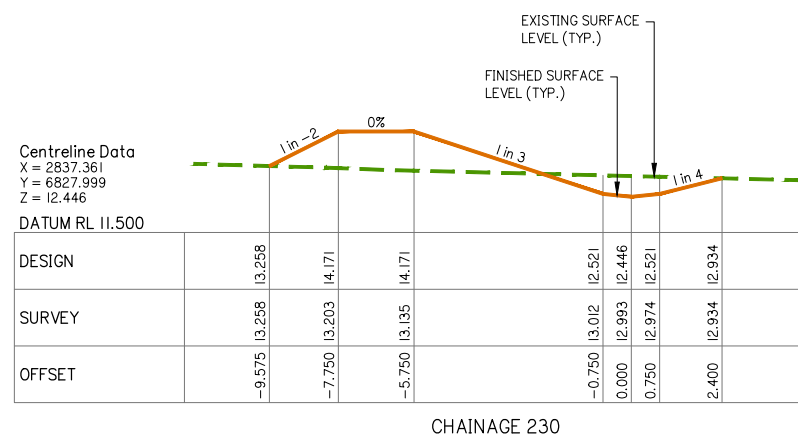
VERT:

Scale at A1: AS SHOWN

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

Drawing No:
5941 ENG BE1 466

Rev. No:
B

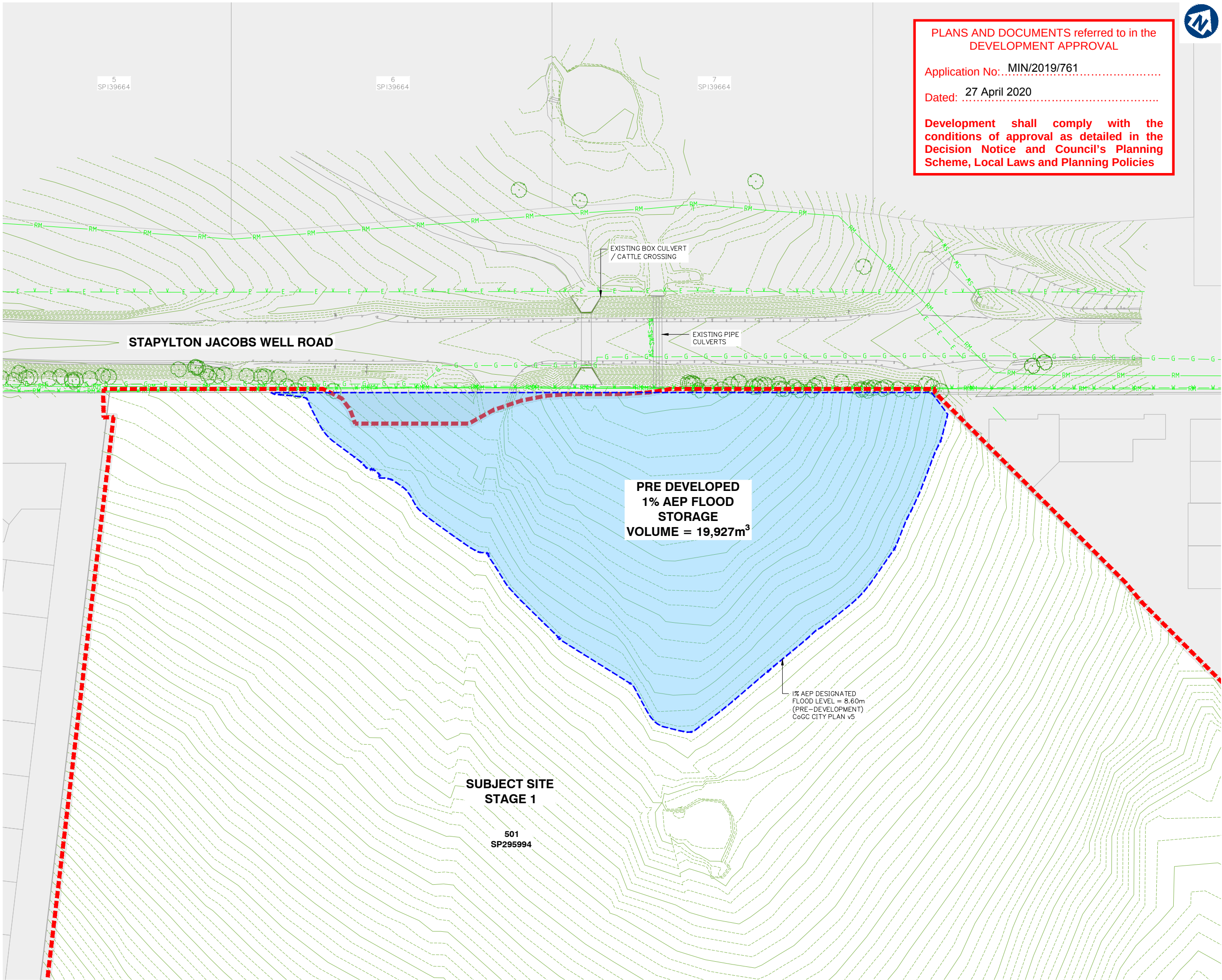


PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

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Dated: 27 April 2020

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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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ROAD & 31 YELLOWWOOD
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RPD:

Lot: 501, 4
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Level Datum: AHD
Meridian: -
Contour interval: -
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DRAWING TITLE
PRE DEVELOPED 1% AEP
FLOOD STORAGE
VOLUME ASSESSMENT

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

SCALE IN METRES



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

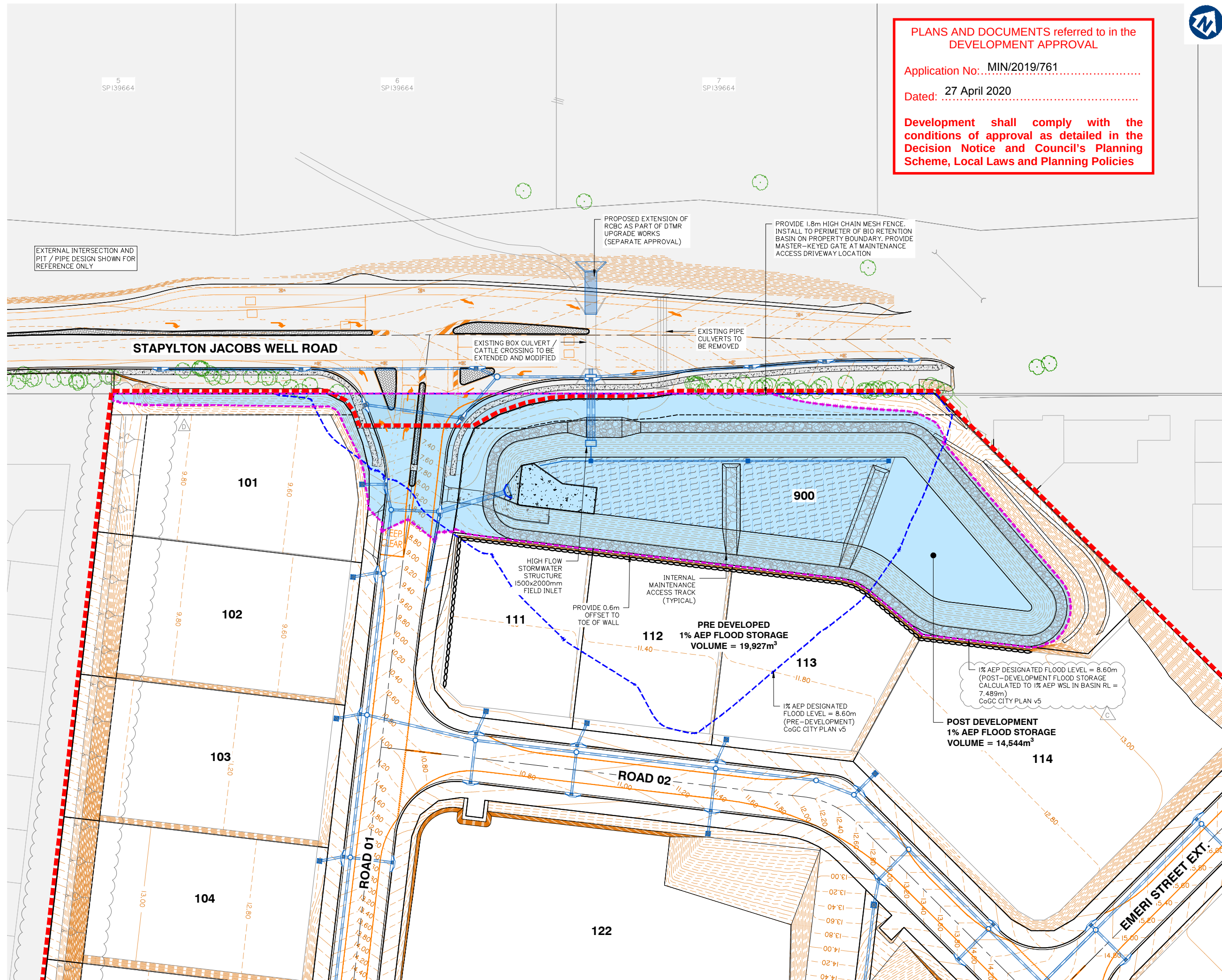
Scale at A1: 1:500

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

Drawing No:
5941 ENG BE1 470

Rev. No:
B

PRE DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



Client:

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FRASERS PROPERTY (AUSTRALIA) PTY. LTD.

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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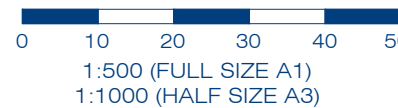
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DRAWING TITLE
POST DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT

Issue	Date	Description	DRN	CHK
D	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	MG
C	12-03-2020	INFORMATION REQUEST RESPONSE	SK	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG

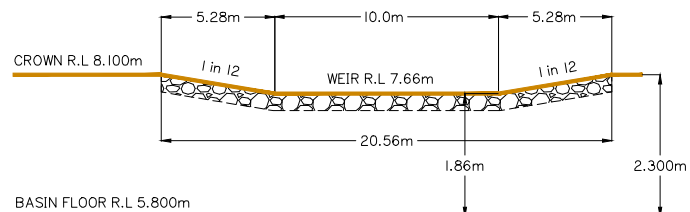
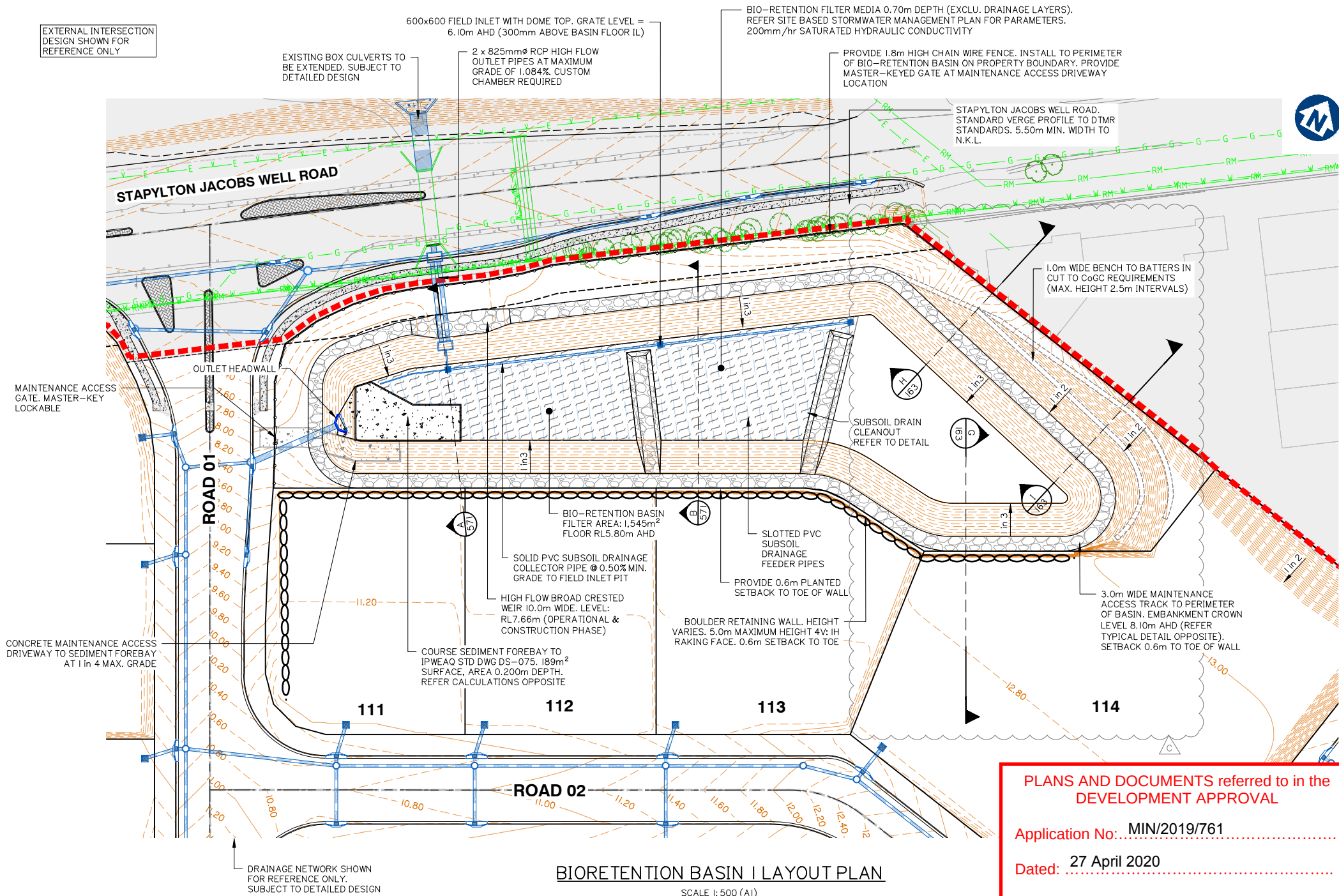
SCALE IN METRES



Scale at A1:	1:500
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
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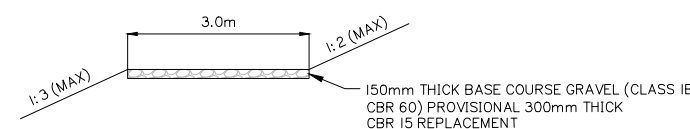
Drawing No: 5941 ENG BE1 471
Rev. No: D

EXTERNAL INTERSECTION
DESIGN SHOWN FOR
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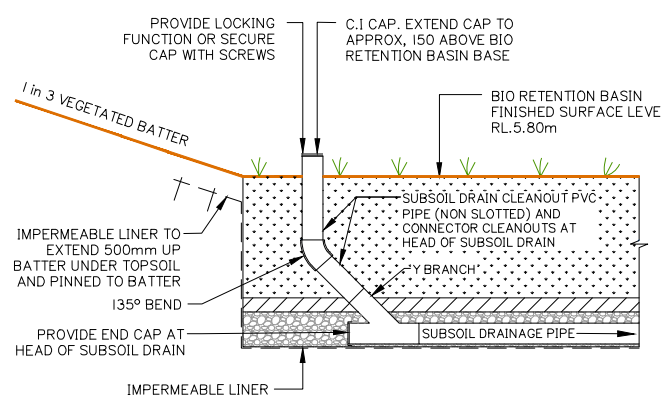
EMERGENCY WEIR - TYPICAL ELEVATION

N.T.S.



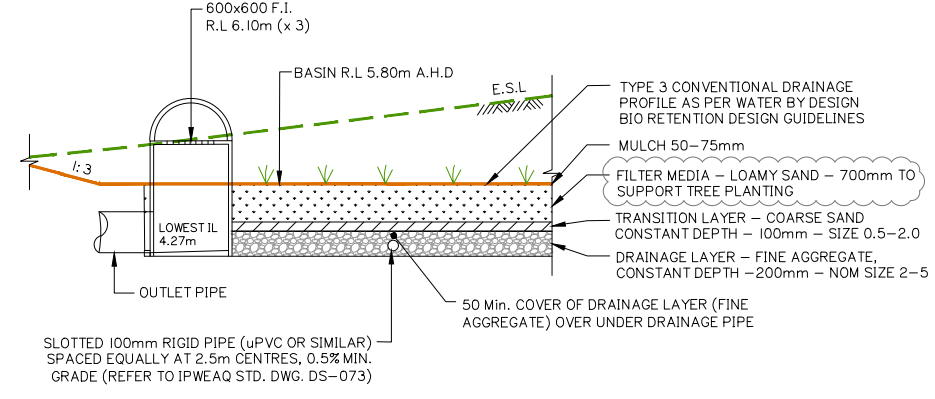
MAINTENANCE ACCESS TRACK - TYPICAL SECTION

N.T.S.



SUBSOIL DRAIN CLEANOUT - IN BASIN

N.T.S.



TYPICAL BIO-RETENTION BASIN DETAIL

N.T.S.

BIO-RETENTION NOTES:

MINIMUM BIO-RETENTION 'PROFILE' IS TO BE 1.00m AND IS TO CONSIST OF THE FOLLOWING:

* 0.70 OF SANDY LOAM MATERIAL WITH A HYDRAULIC CONDUCTIVITY OF 200mm/h AND A PARTICLE SIZE OF 0.45-0.50mm.

* 0.10m OF COURSE SAND, PARTICLE SIZE TYPICALLY 0.5-2.0mm.

* 0.20m OF GRAVEL DRAINAGE, PARTICLE SIZE 2-5mm SCREENING.

AGRICULTURAL PIPE TO BE INCLUDED IN FREE DRAINING AREAS TO ASSIST IN DRYING OUT THE DEVICE

BIO RETENTION - COURSE SEDIMENT FOREBAY SIZING GUIDE CALCULATIONS

$$V_s = A_c \times R \times L_o \times F = 7.234 \text{ m}^3$$

$$R = 1 - \left[1 + \frac{1}{n} \times \frac{V_s}{0.7 A_c} \right]^{-n}$$

$$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 2.423 / A_c} \right]^{-0.5} \quad A_f = 234.72 \text{ m}^2$$

$$D_s = \frac{V_s}{A_f} \quad D_s = \frac{7.234}{234.72} = 0.031 \text{ m}$$

OPTIMIZATION OF MINIMUM FOREBAY SIZE:

$$D_s = \frac{7.234 \text{ m}^3}{189.00 \text{ m}^2} = 0.038 \text{ m}$$

$V_s = 7.234 \text{ m}^3$ (Workings Above)

$A_c = 15.071 \text{ ha}$ (Refer Catchment Plans)

UNMITIGATED POST-DEVELOPMENT FLOW
 $Q = 1.956 \text{ m}^3/\text{s}$ (3 month ARI = 0.5 x 63.2% AEP)

$V_s = 0.1 \text{ m/s}$ (Recommended for Imm Particle)

$R = 0.8$ (Recommended 80% Capture)

$L_o = 0.6$ (From Healthy Waterways Guide)

$n = 0.5$ (Recommended Turbulence)

$F_c = 1.0$ (Frequency of Clean Out / Yr)

REFER TO BIO RETENTION TECHNICAL DESIGN GUIDELINES FOR FURTHER INFORMATION

AEP (%)	MAX. WATER ELEVATION (m) A.H.D.	MAX. WATER DEPTH (m)
63.2	6.635	0.835
50	6.720	0.920
20	7.057	1.257
10	7.179	1.379
5	7.256	1.456
2	7.357	1.557
1	7.489	1.689

Client:



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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: -

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

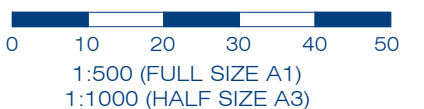
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 1 OF 2

Rev	Date	Description	By	Check
G	12-03-2020	INFORMATION REQUEST RESPONSE	SK	MG
B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	MG
A	20-12-2019	ORIGINAL ISSUE	JRG	MG
Issue	Date	Description	By	Check

SCALE IN METRES



Scale at A1: 1:500

Designed: IG

Drafted: JRG

Approved: MG

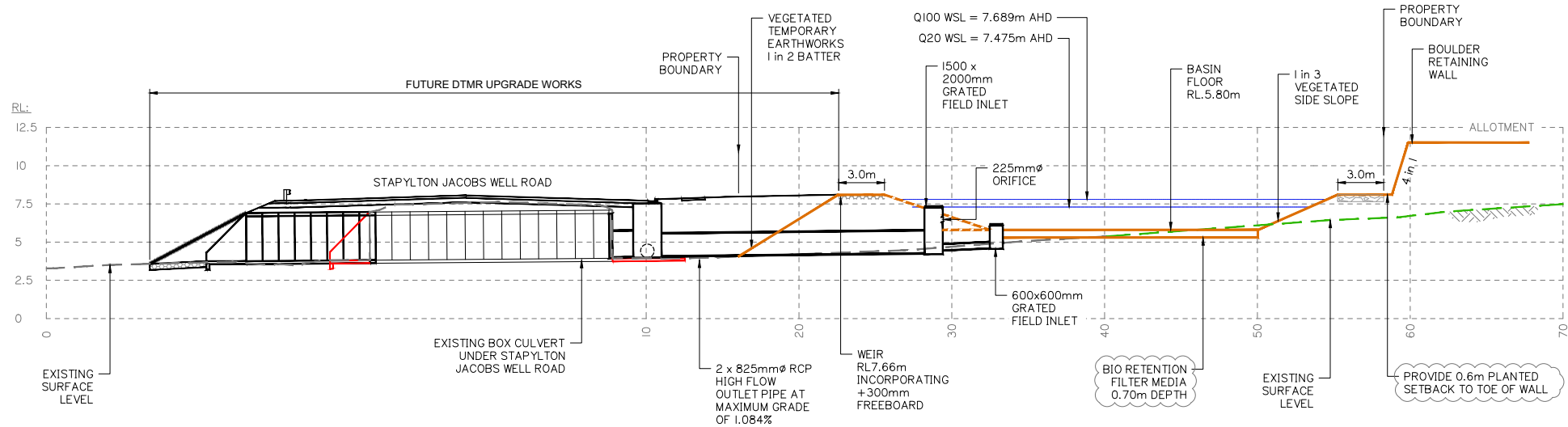
RPEQ: 16939

Signed:

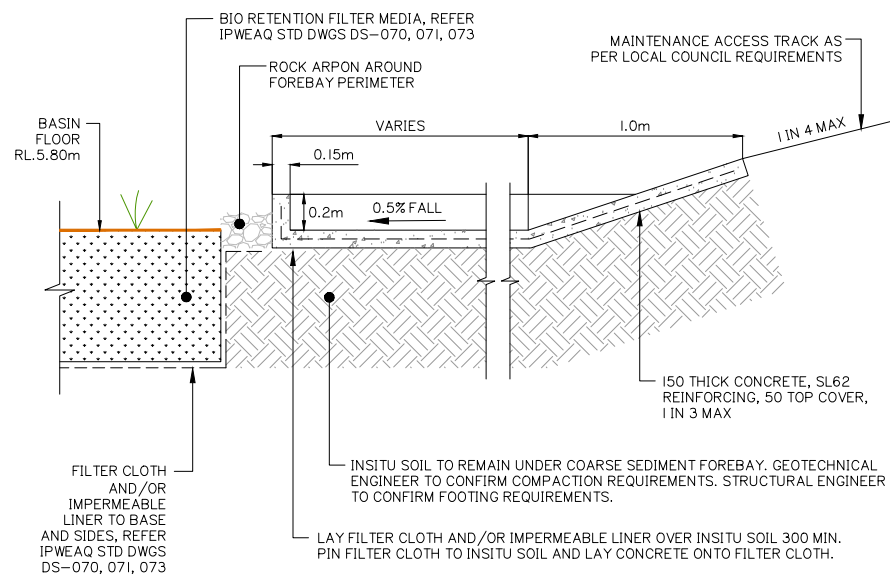
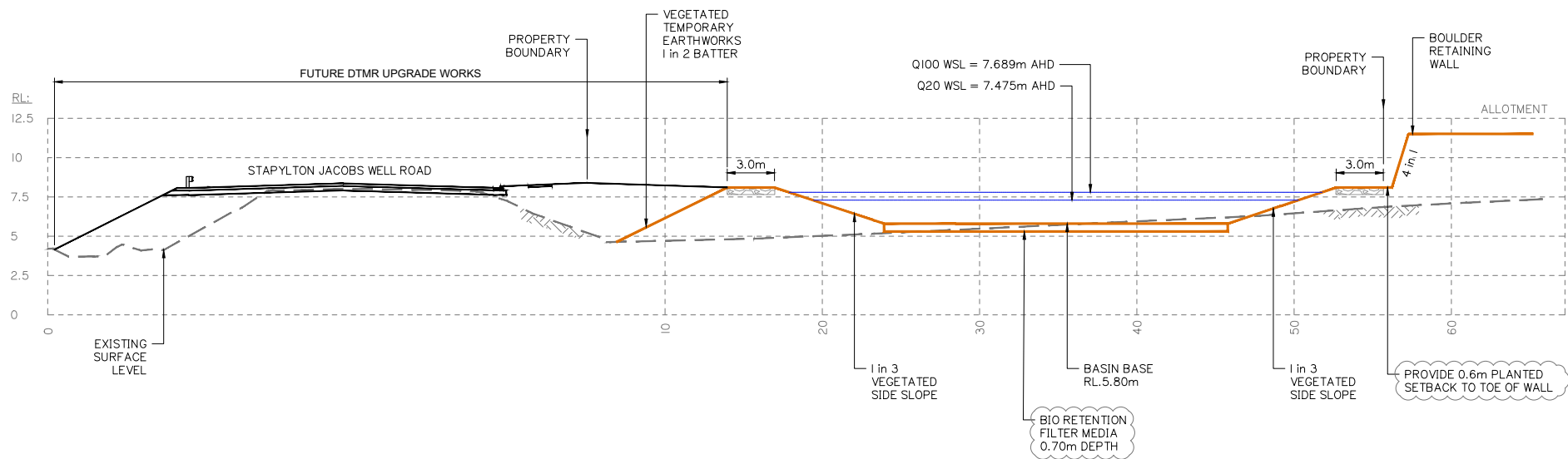
Date: 12-03-2020

Drawing No: 5941 ENG BE1 570
Rev. No: C

SECTION A
NTS
570

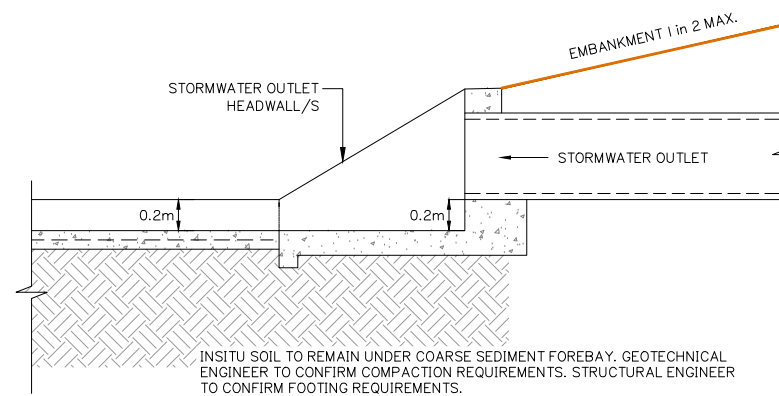


SECTION B
NTS
570



COURSE SEDIMENT FOREBAY TYPICAL SECTION

N.T.S.



TYPICAL STORMWATER OUTLET TO SEDIMENT FOREBAY

N.T.S.

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

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2019/761

Dated: 27 April 2020

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

Otherwise, without the written permission of Gassman
Development Perspectives.

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 2 OF 2

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

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 571

Rev. No:
A