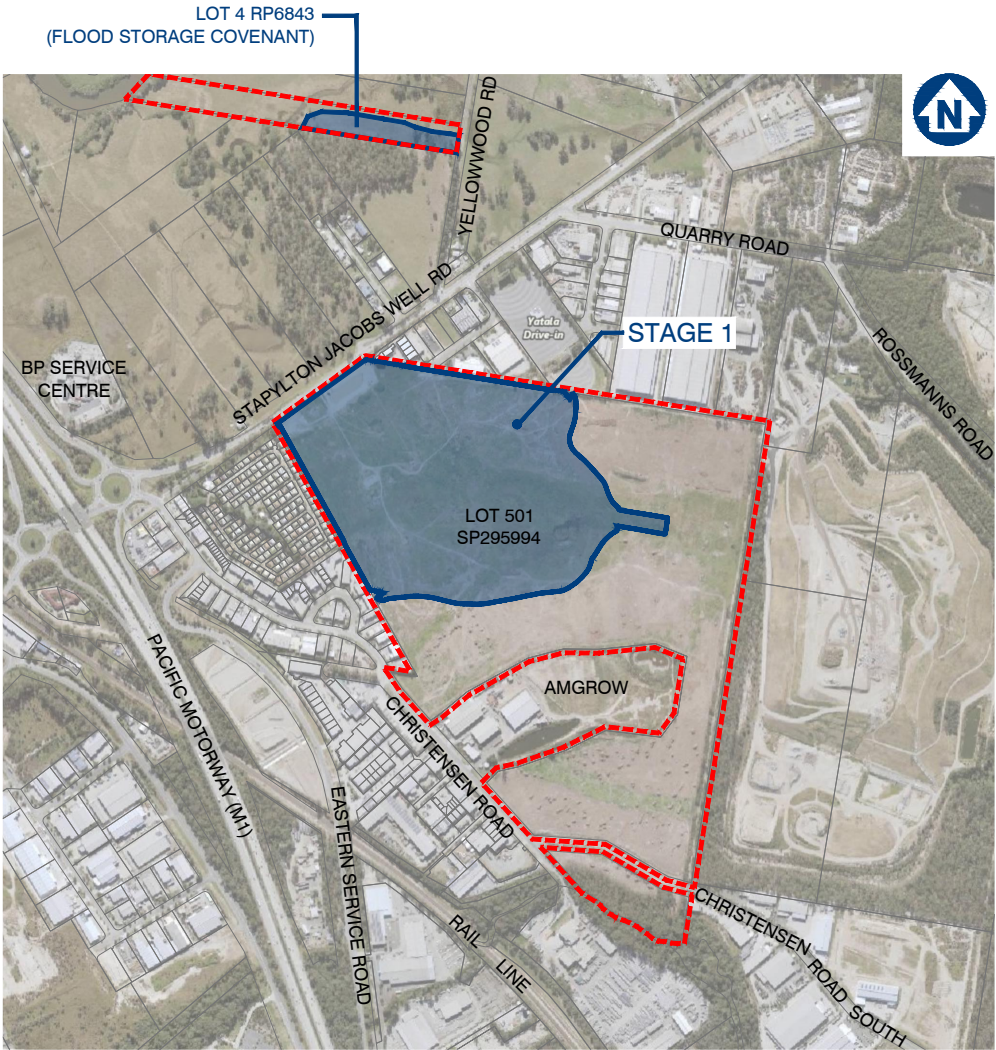


OPERATIONAL WORKS APPLICATION FOR CHANGE TO GROUND LEVEL M38 INDUSTRIAL PARK YATALA

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LOCALITY PLAN
SCALE 1: 8000 (A1)

CLIENT



FRASERS PROPERTY
(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

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.

1. **PRECEDENCE**
EARTHWORKS SPECIFICATION PREPARED BY PROJECT GEOTECHNICAL ENGINEER TO TAKE PRECEDENCE OVER STANDARD COUNCIL EARTHWORKS NOTES.
2. **TOPSOIL STRIPPING**
TOPSOIL SHALL BE STRIPPED PREPARED 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.

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

- a. 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 (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 SEED, 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.

- 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).



HES BASIN GENERAL NOTES

AUTO DOSER

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

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

BASIN CONSTRUCTION

MATERIALS

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

CONSTRUCTION

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

CUT-OFF TRENCH

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

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

EMBANKMENT

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

ESTABLISHING THE SETTLING POND

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

SPILLWAY CONSTRUCTION

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

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

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

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

BK(A)	BARRIER KERB (A)
BK(B)	BARRIER KERB (B)
BK(G)	BARRIER KERB (G)
MK(D)	MOUNTABLE KERB (D)
SMK(C)	SEMI MOUNTABLE KERB (C)
ER(E)	EDGE RESTRAINT (E)
KER(F)	KERB EDGE RESTRAINT (F)
RK&C(H)	ROLL TOP KERB & CHANNEL (H)
BK&C(J)	BARRIER KERB & CHANNEL (J)
ERH	KERB EDGE RESTRAINT (HIGH)
ERL	KERB EDGE RESTRAINT (LOW)
CS(K/L)	CHANNEL SECTION (K/L)
PMB	PRECAST MOTOR BED
DD	DISH DRAIN
K&G	KERB AND GUTTER
K&T	KERB AND TOE
KO	KERB ONLY
MK	MOUNTABLE KERB
RK	ROLL KERB
—	EXISTING SIGN
—	PROPOSED SIGN
—	PROPOSED ROAD EDGE GUIDE POST
○ BIN	EXISTING BIN
□ PB	POST BOX
—	TELEPHONE BOX
—	TELSTRA PIT
○ MP	TELSTRA MARKER POST
— WM	WATER METER
— V	WATER VALVE
— F.H.	FIRE HYDRANT
○ TAP	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

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



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
60 STAPYLTON JACOBS WEL
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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LEGEND

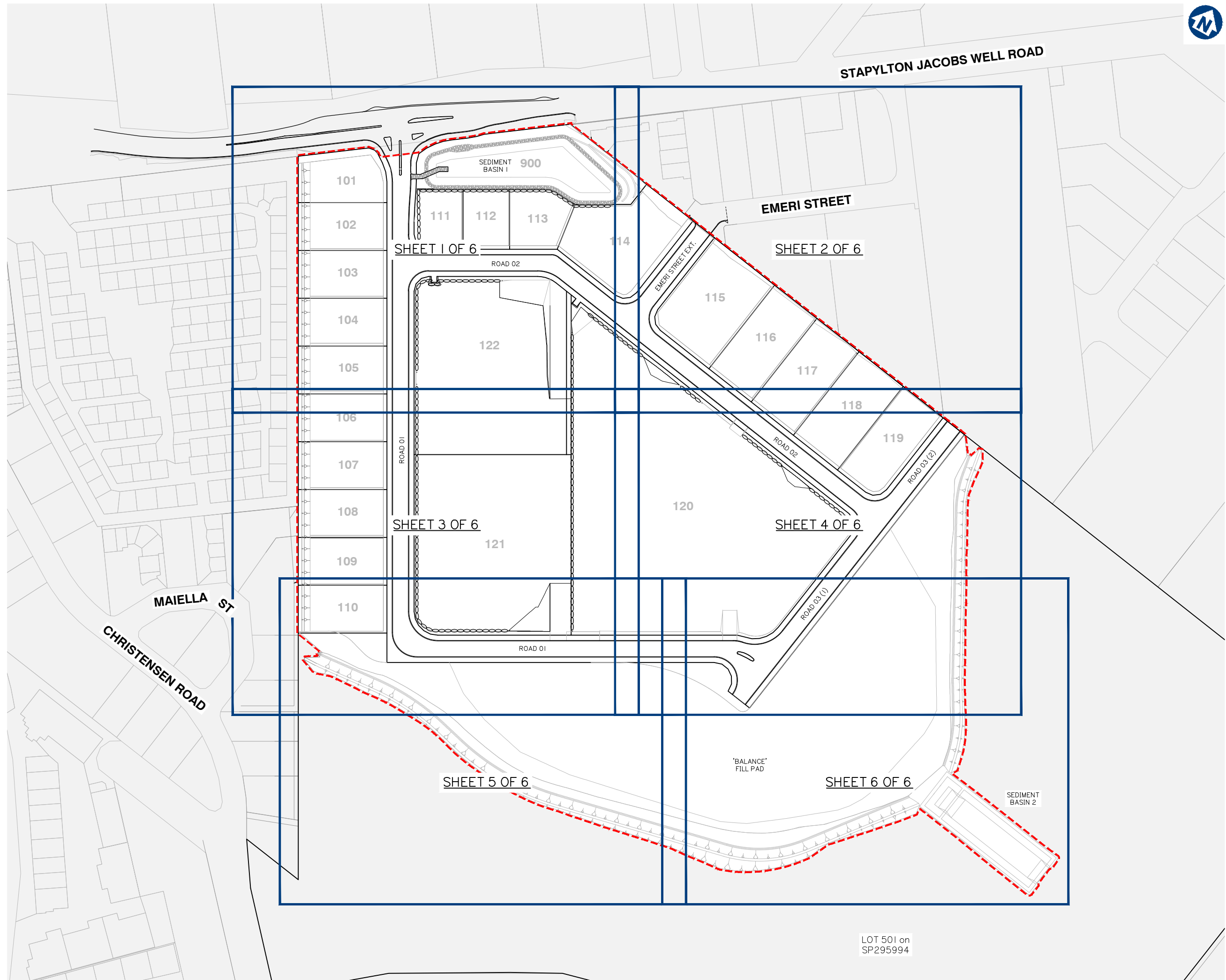
B	20-02-2020	INFORMATION REQUEST RESPONSE	IQ
A	20-12-2019	ORIGINAL ISSUE	JRG
Issue	Date	Description	DNR

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 004	B



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: M38 INDUSTRIAL
PARK YATALA

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

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

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DRAWING TITLE

KEY PLAN LAYOUT

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



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

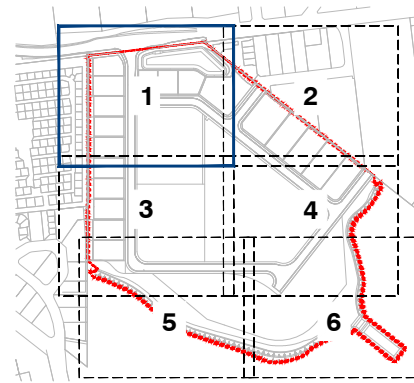
Scale at A1: 1:1500

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

Drawing No:
5941 ENG BE1 005

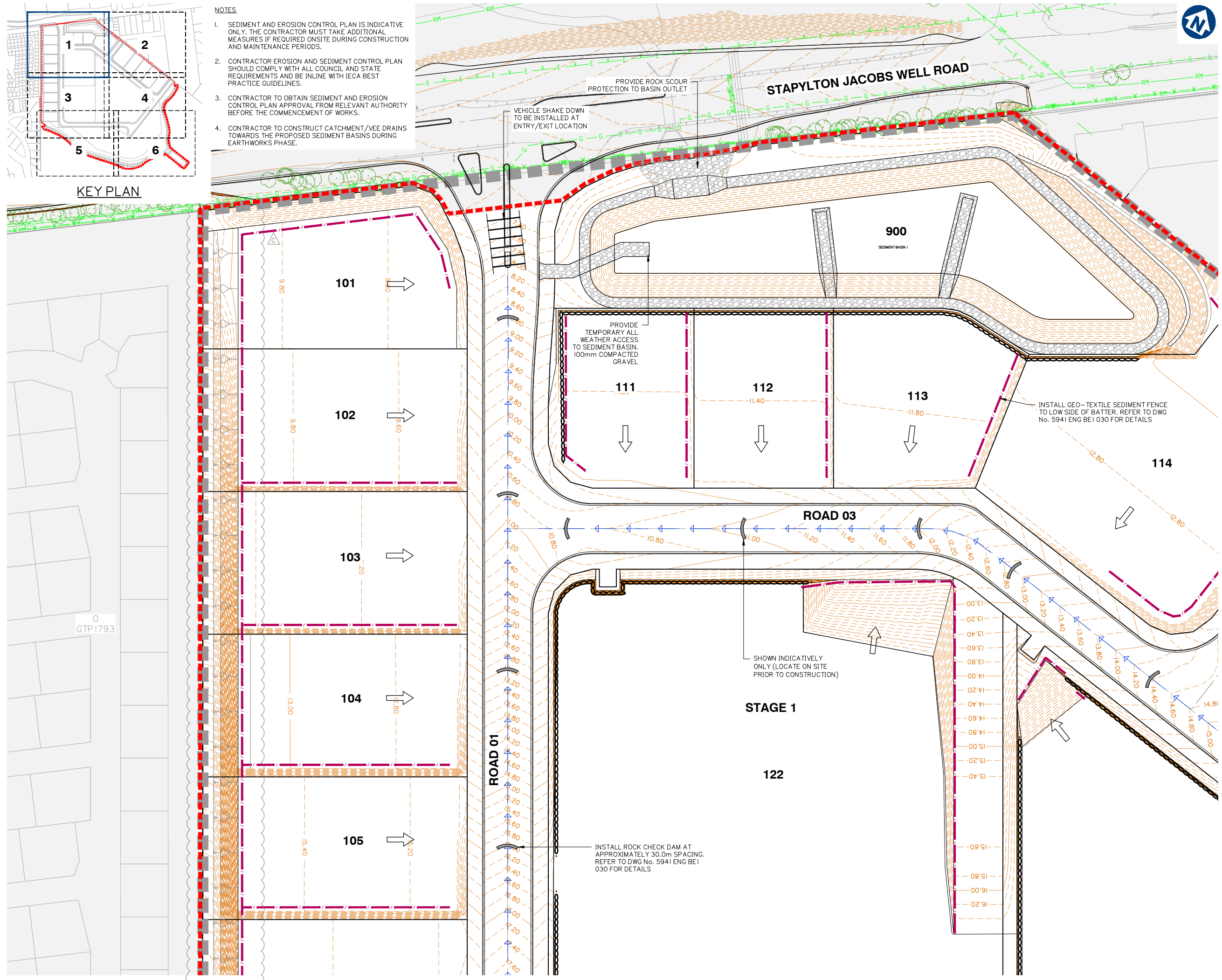
Rev. No:
B





KEY PLAN

- 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.



SEDIMENT AND EROSION CONTROL PLAN SHEET 1 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: -

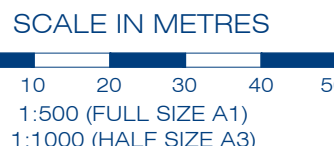
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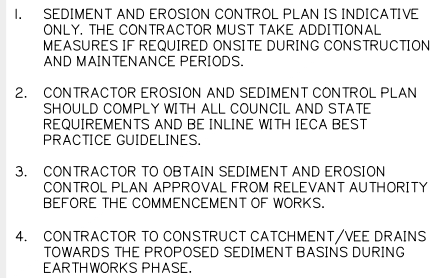
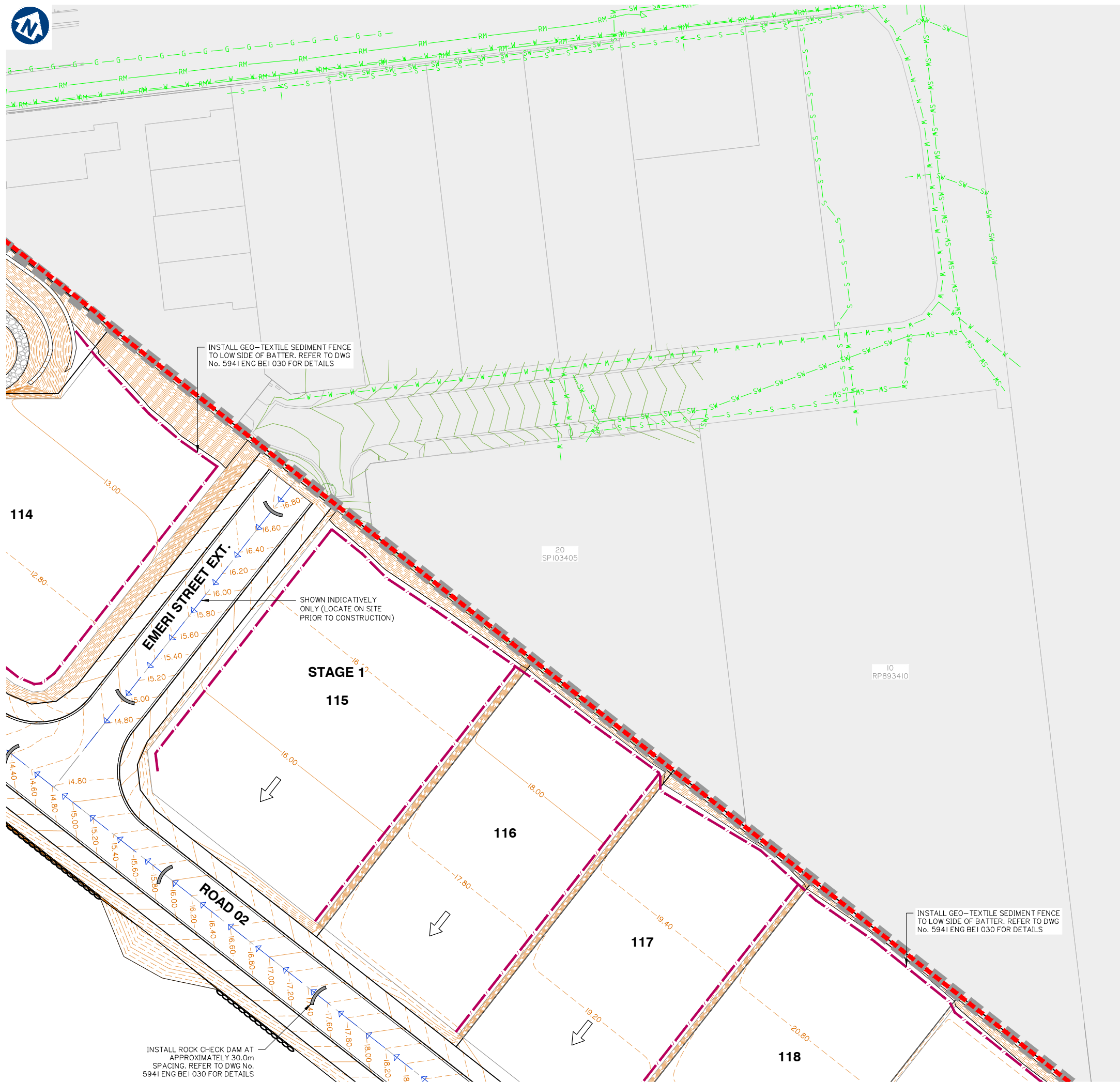
DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 6

Issue	Date	Description	IG	MG	JRG	MG	DRN	CHK
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				



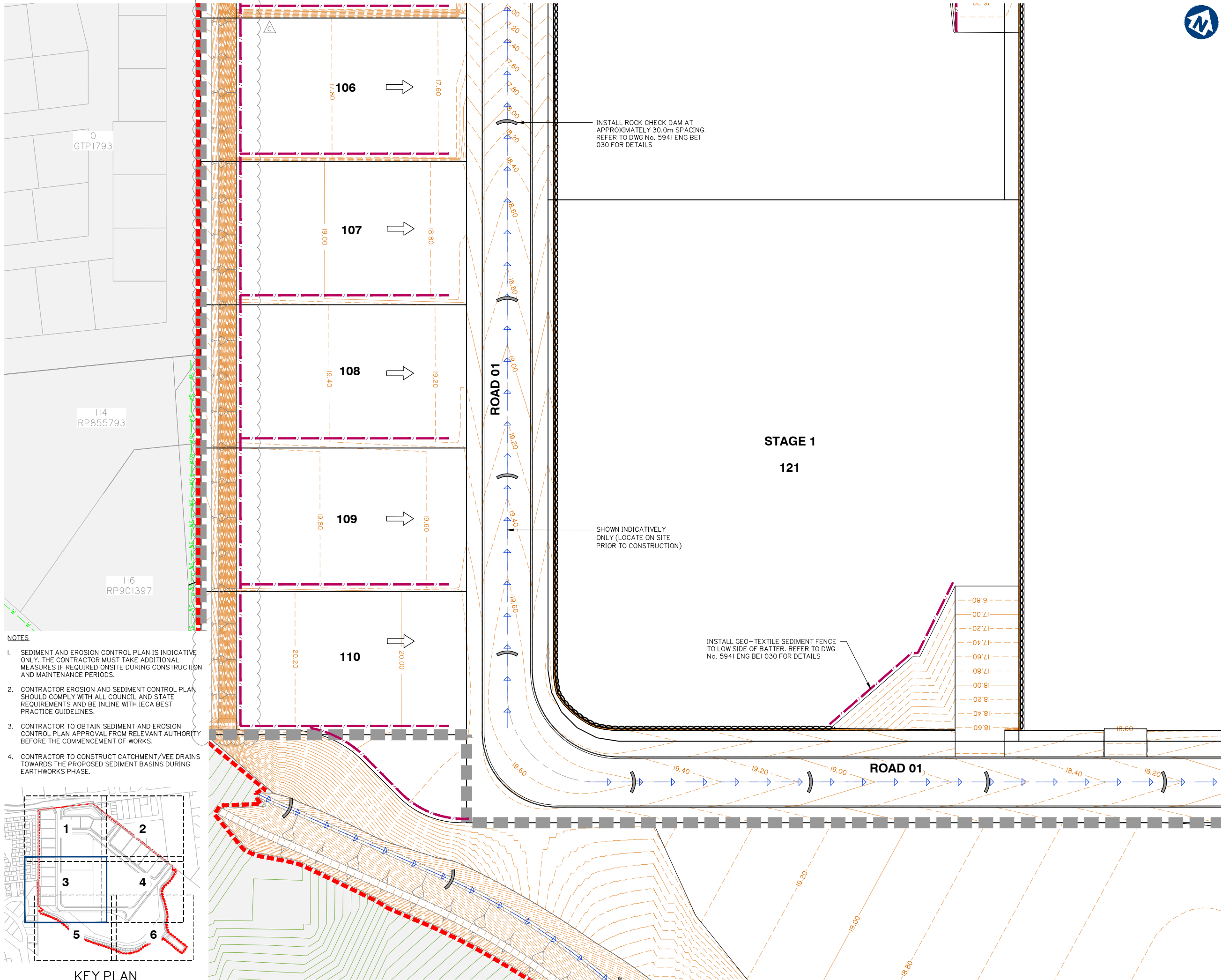
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No: 5941 ENG BE1 020 Rev. No: C



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Drawing No:	Rev. No:
5941 ENG BE1 021	B



Client:



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Project: M38 INDUSTRIAL
PARK YATALA

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

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RPD:

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Local Authority: CITY OF GOLD COAST
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RL: -

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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 3 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

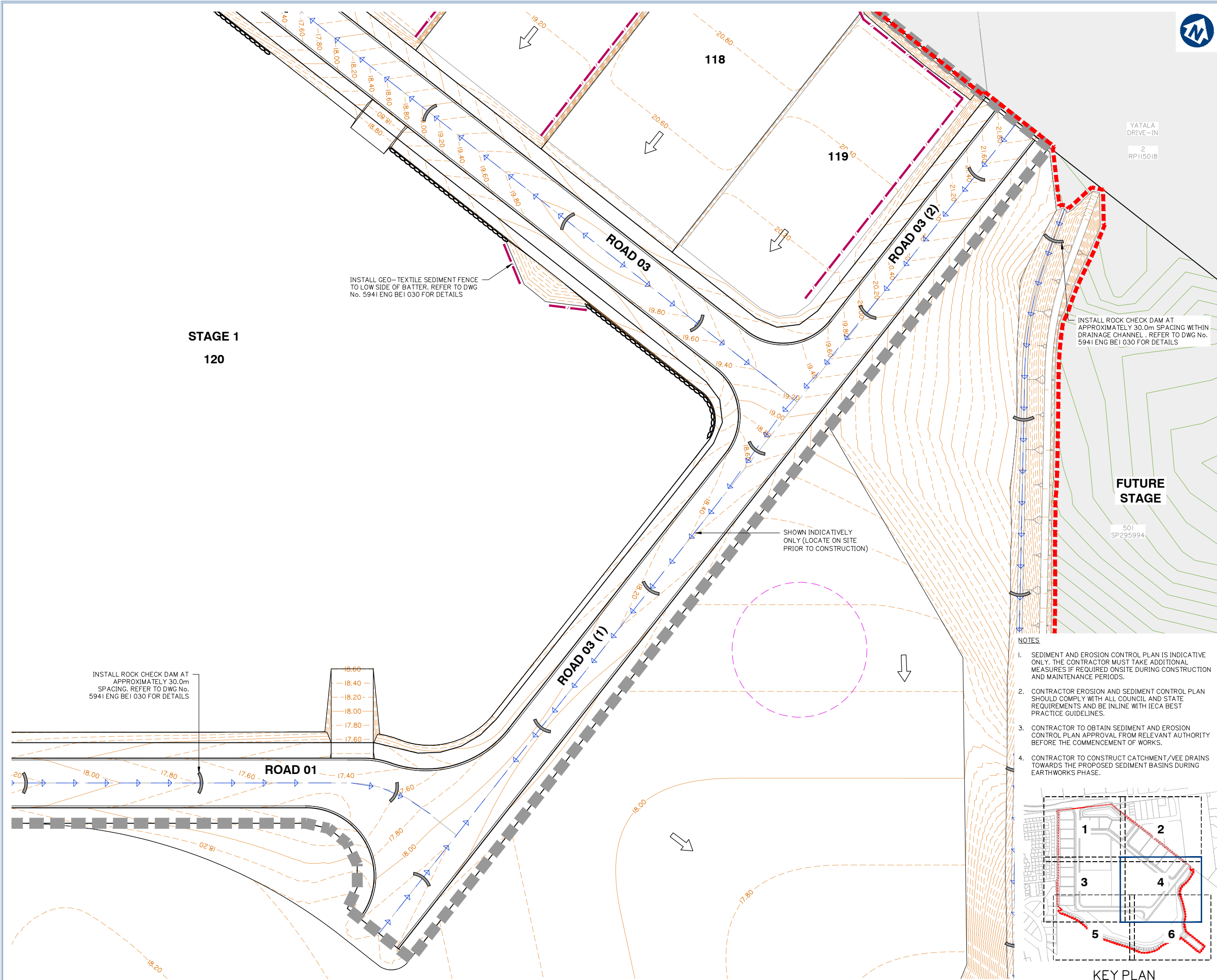
RPEQ: 16939

Signed:

Date: 20-02-2020

Drawing No:
5941 ENG BE1 022

Rev. No:
C



Client:



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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 6

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

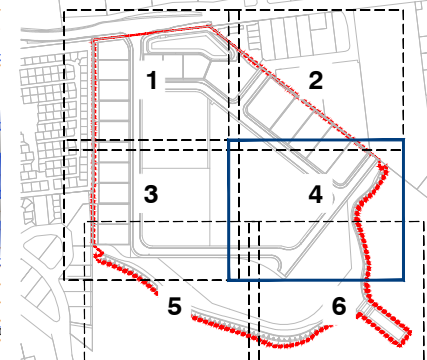
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1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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

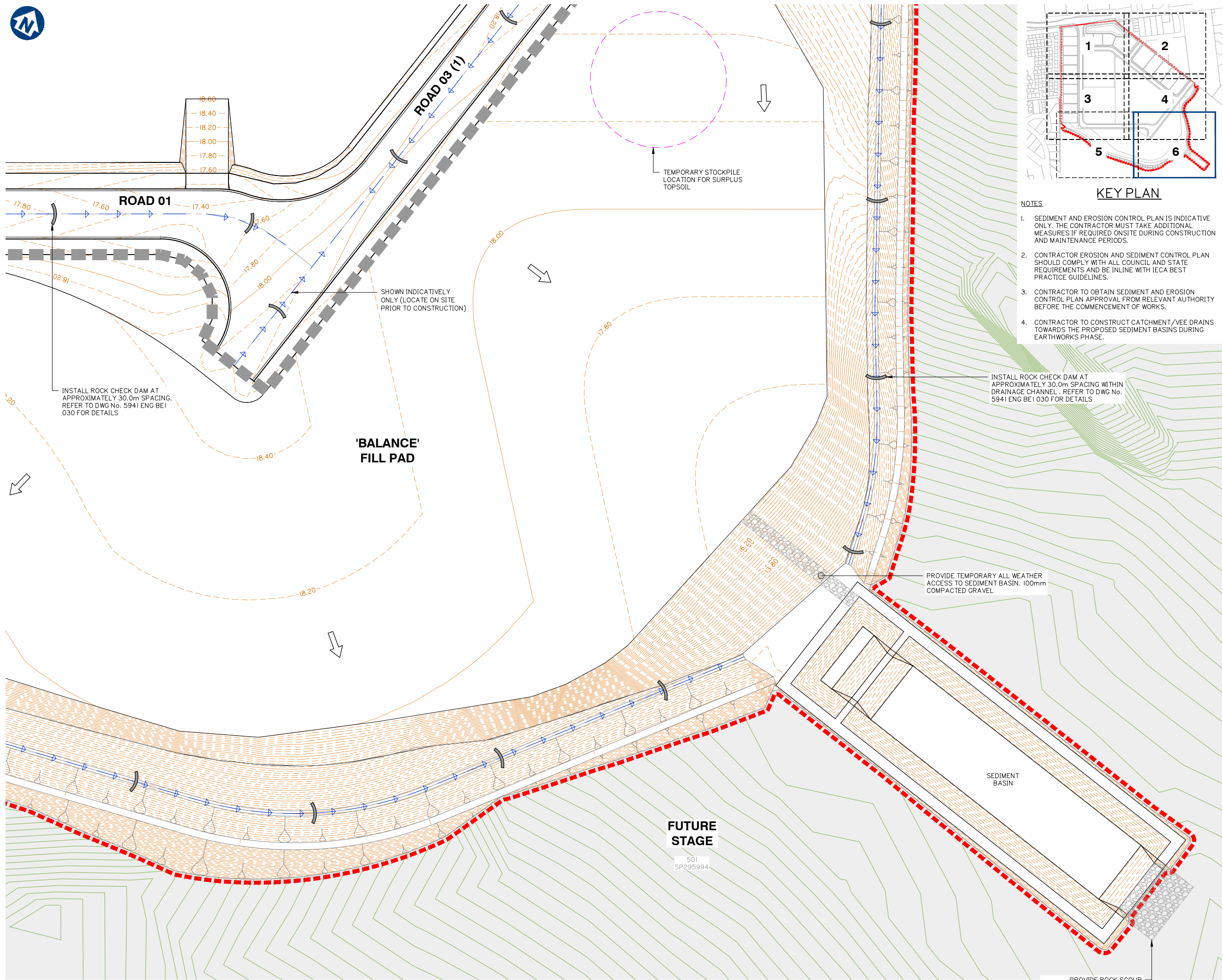
Drawing No: 5941 ENG BE1 023 Rev. No: B



KEY PLAN

- 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.





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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 6 OF 6

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

SCALE IN METRES



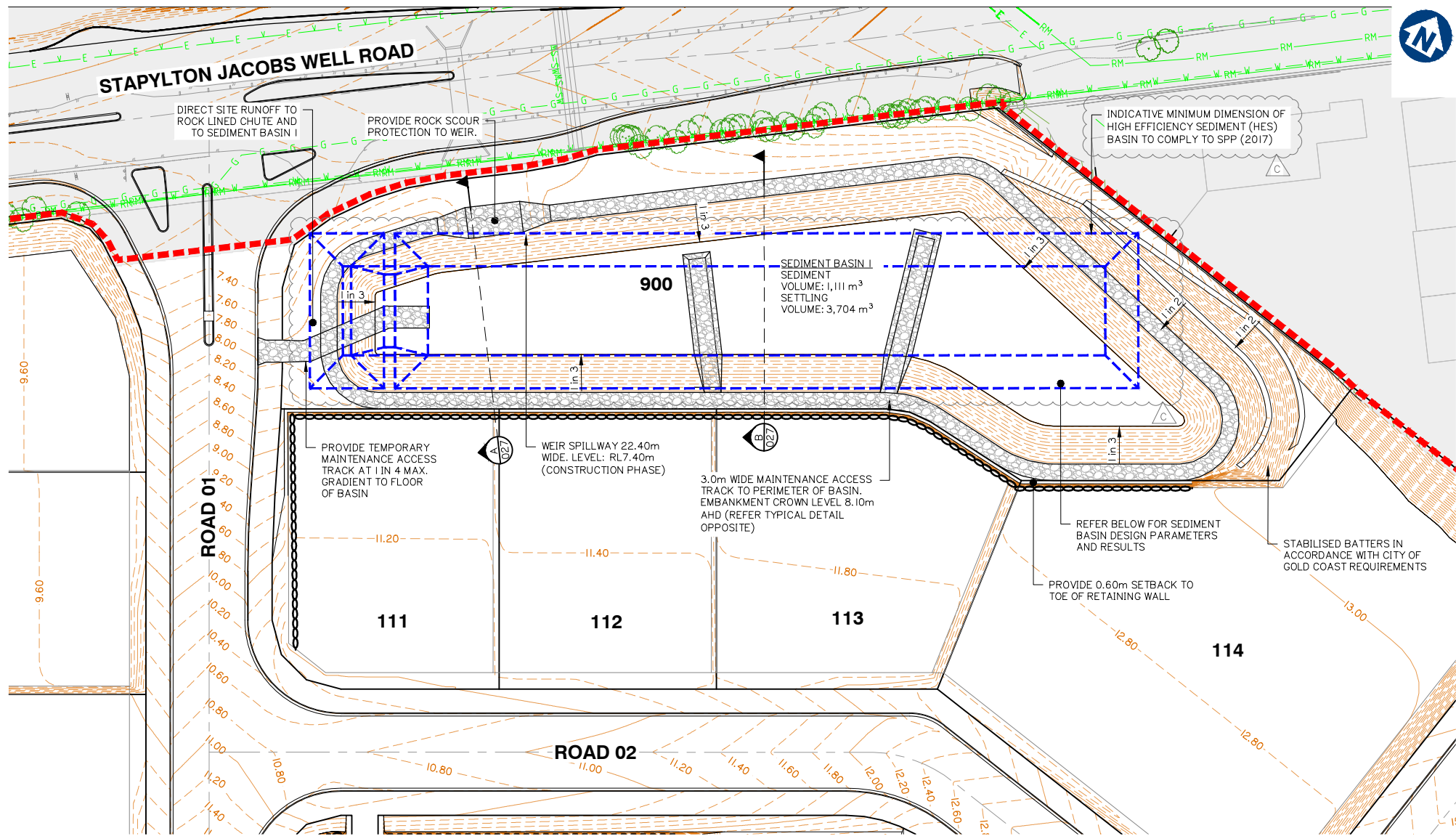
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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

Drawing No:
5941 ENG BE1 025

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.

Client:



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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ROAD, STAPYLTON QLD 4207

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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



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

CONSTRUCTION PHASE SEDIMENT BASIN I LAYOUT

SCALE 1:500 (A1)

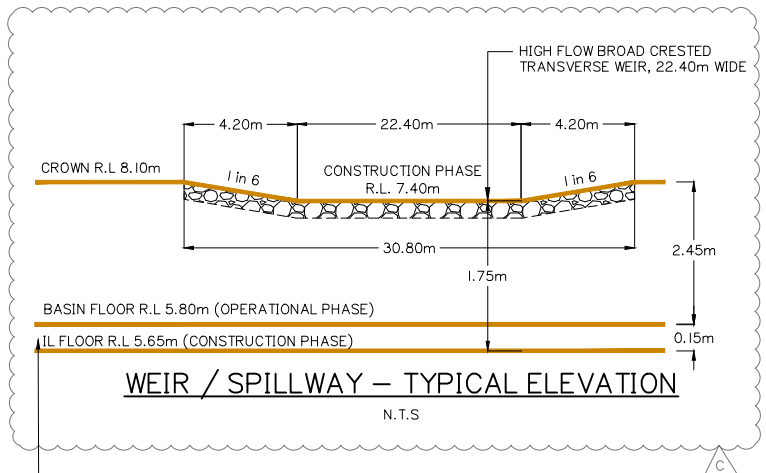
SEDIMENT BASIN DESIGN											
BASIN ID	SELECT DURATION OF CATCHMENT DISTURBANCE	IS DEWATERING OF TRENCHES REQUIRED?	EQUIPMENT LEASE OR PURCHASE?	SELECT CATCHMENT SCALE	DO ALL FLOWS ENTER BASIN AT SINGLE POINT?	BASIN TYPE	DOSING EQUIPMENT				
No. 1	> 12 MONTHS	NO	LEASE	> 5Ha	NO	TYPE A	IFOD-RAIN				

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 DECANAT RATE	SELECTED LOW-FLOW DECANAT RATE (Q _d)	MIN SETTLING ZONE VOLUME (Min V _d)	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

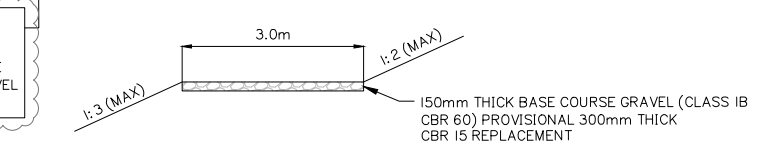
BASIN ID	SETTLING ZONE		SCOUR VELOCITY	FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETTLING ZONE VOLUME (V _d)	ACTUAL SETTLING ZONE AREA (A _s)		DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
No. 1	(m³)	(m²)	(m/s)	(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)



MAINTENANCE ACCESS TRACK – TYPICAL SECTION

N.T.S

CONSTRUCTION PHASE SEDIMENT BASIN I LAYOUT



Client:



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Project: M38 INDUSTRIAL
PARK YATALA

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

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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 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	

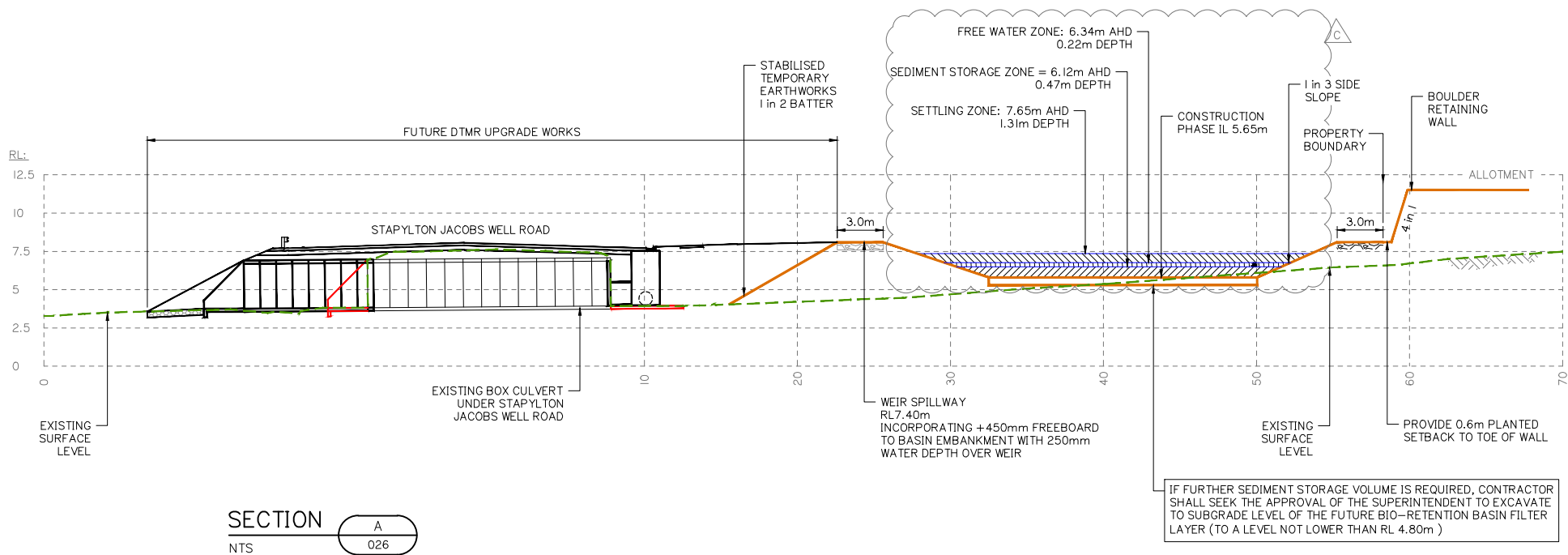
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Scale at A1: NTS

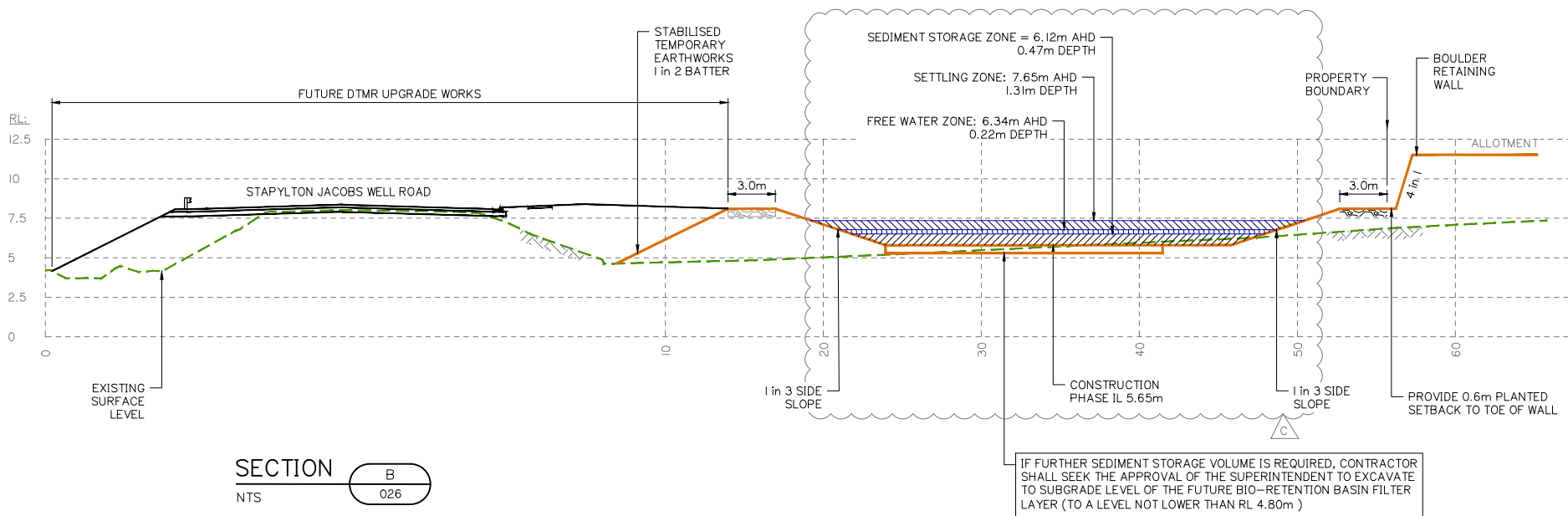
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2020

Drawing No:
5941 ENG BE1 027

Rev. No:
C

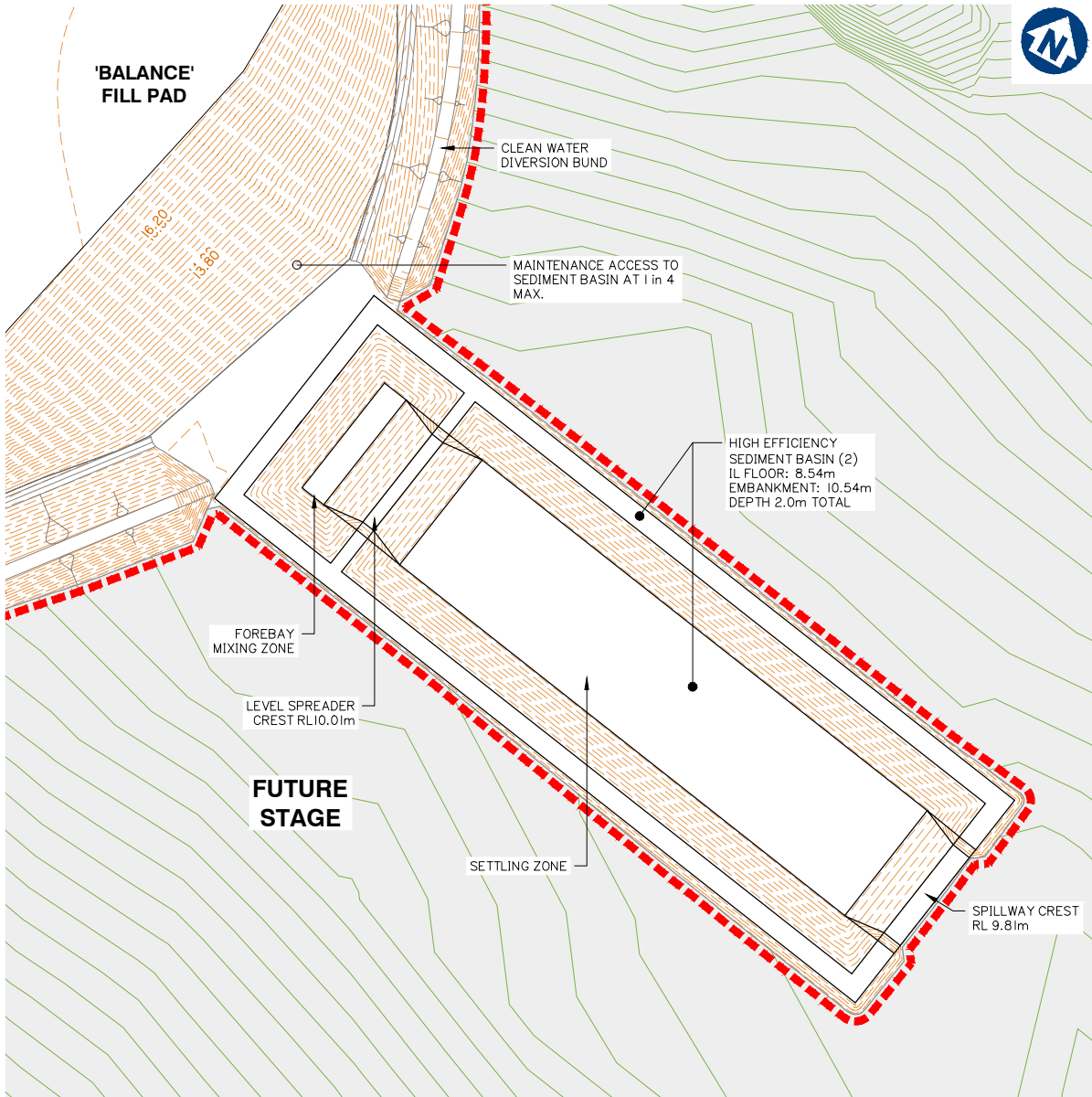


SECTION A
NTS 026



SECTION B
NTS 026

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					
		yr				I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
						(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

Client:



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Project: M38 INDUSTRIAL
PARK YATALA

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ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 2
LAYOUT

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

SCALE IN METRES



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

Scale at A1: 1:500

Designed: IG

Drafted: JRG

Approved: MG

RPEQ: 16939

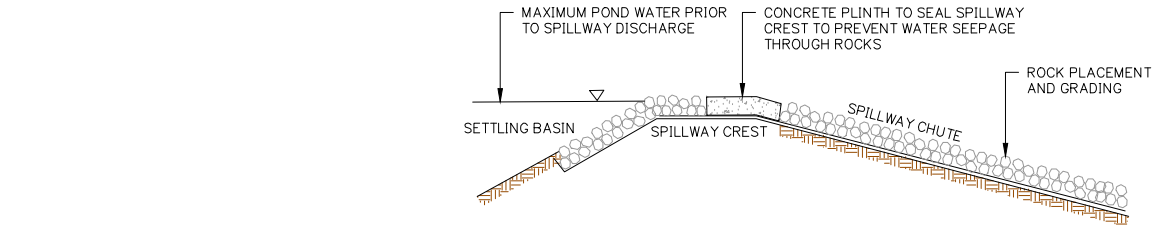
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Date: 20-02-2020

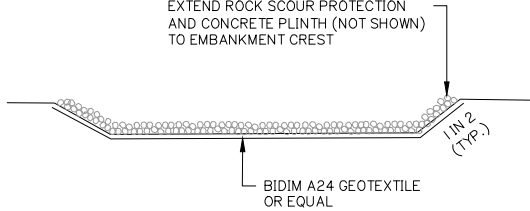
Drawing No:
5941 ENG BE1 028

Rev. No:
B

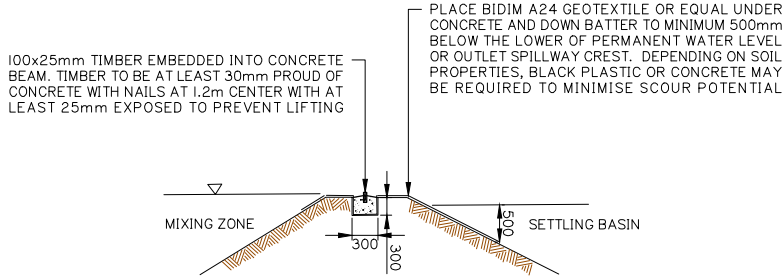
CONSTRUCTION PHASE SEDIMENT BASIN 2 LAYOUT



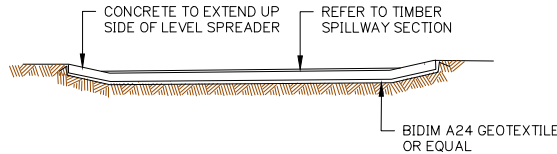
OUTLET SPILLWAY DETAILS
TYPICAL CROSS SECTION
NOT TO SCALE



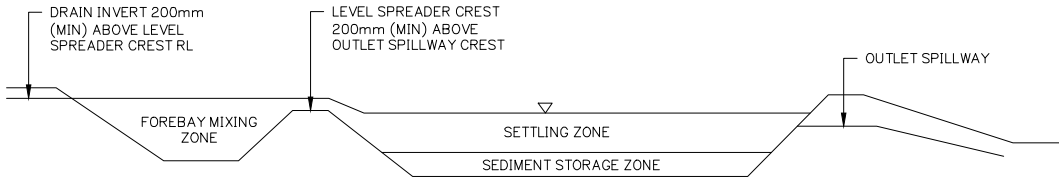
OUTLET SPILLWAY DETAILS
TYPICAL LONGITUDINAL SECTION
NOT TO SCALE



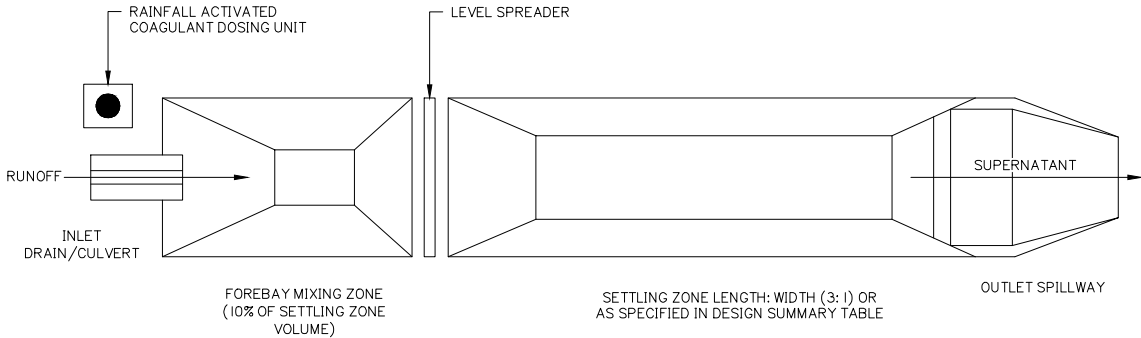
LEVEL SPREADER DETAILS
TYPICAL CROSS SECTION
NOT TO SCALE



LEVEL SPREADER DETAILS
TYPICAL LONG SECTION
NOT TO SCALE



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



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

CONSTRUCTION PHASE SEDIMENT BASIN 2 SECTIONS

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CONSTRUCTION PHASE
SEDIMENT BASIN 2
SECTIONS

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A	20-12-2019	ORIGINAL ISSUE		JRG	MG
Issue	Date	Description		DRN	CHK

SCALE IN METRES



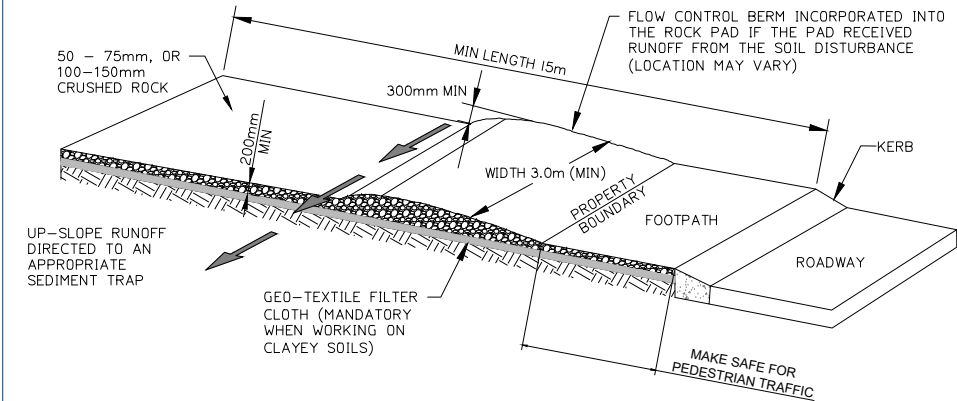
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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

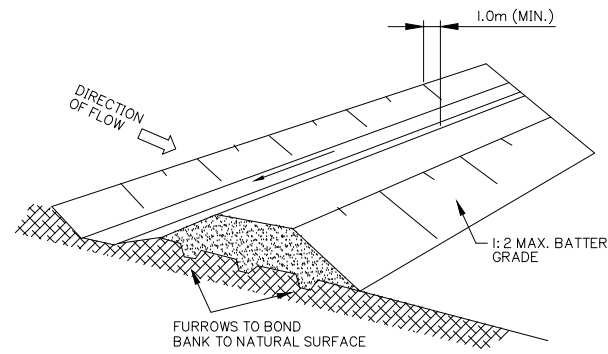
Drawing No:
5941 ENG BE1 029

Rev. No:
B



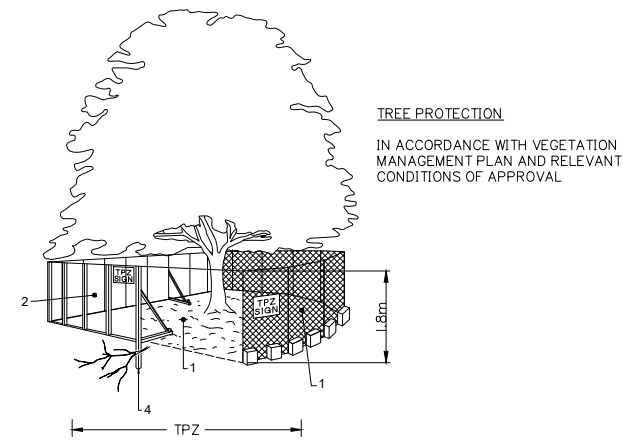
ENTRY/EXIT PAD FOR CONSTRUCTION SITE

NOT TO SCALE



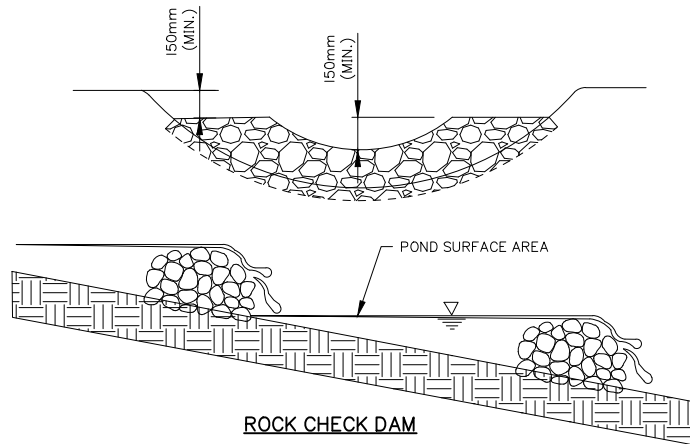
DIVERSION DRAIN

NOT TO SCALE



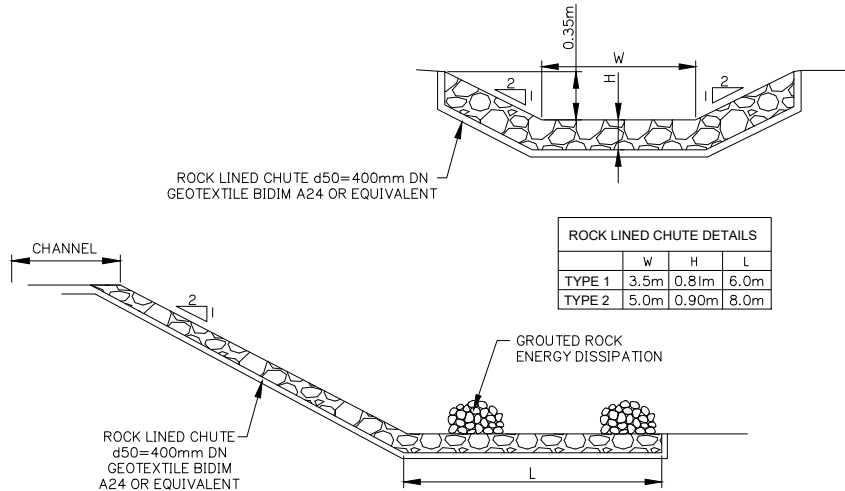
TREE PROTECTION

IN ACCORDANCE WITH VEGETATION MANAGEMENT PLAN AND RELEVANT CONDITIONS OF APPROVAL



ROCK CHECK DAM

NOT TO SCALE



ROCK LINED CHUTE

NOT TO SCALE

FENCING AS PER AS: 4970

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

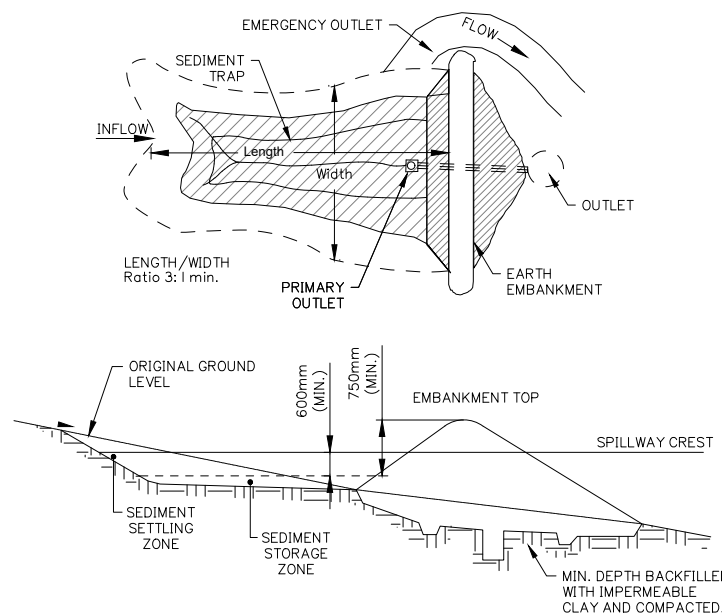
DETERMINING THE TPZ

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

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

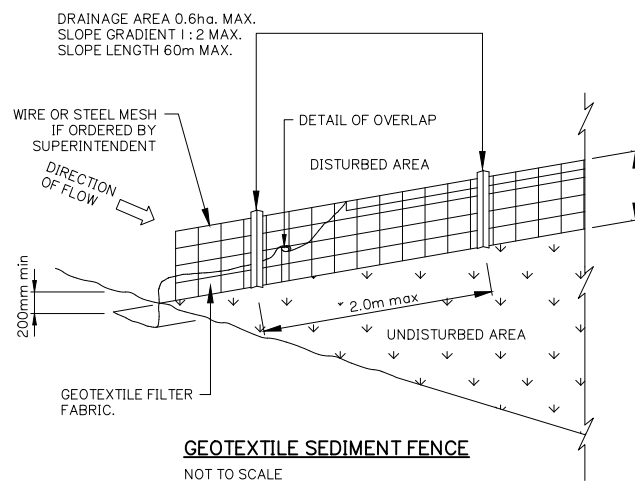
PROTECTIVE FENCING

NOT TO SCALE



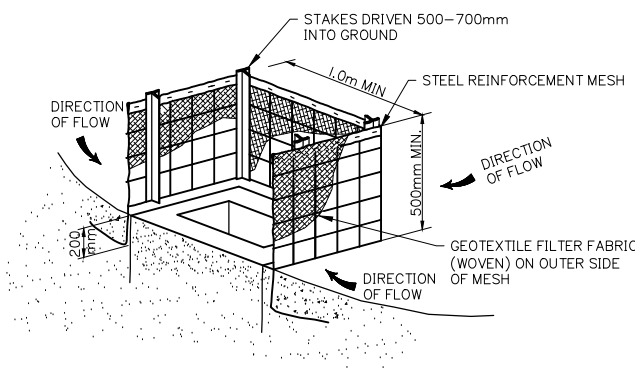
TYPICAL SEDIMENT BASIN

NOT TO SCALE



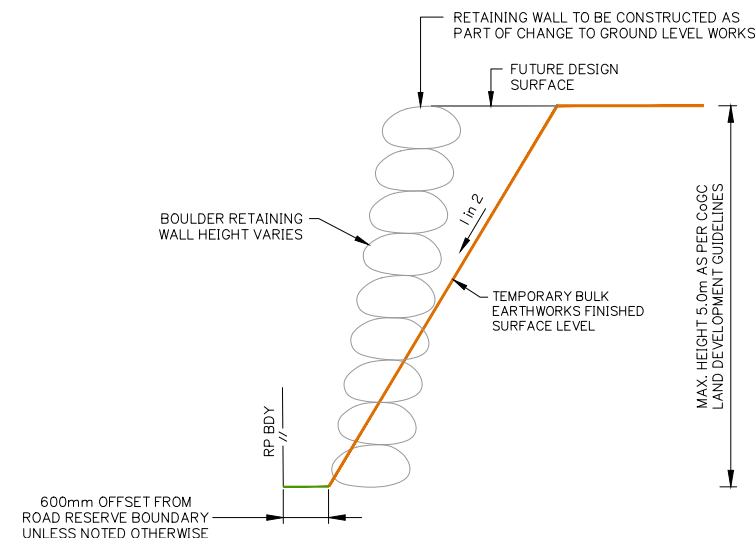
GEOTEXTILE SEDIMENT FENCE

NOT TO SCALE



STORMWATER INLET - SEDIMENT TRAP

NOTE: FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY



TEMPORARY BATTER LOCATION FOR RETAINING WALLS

NOT TO SCALE

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
TYPICAL DETAILS

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

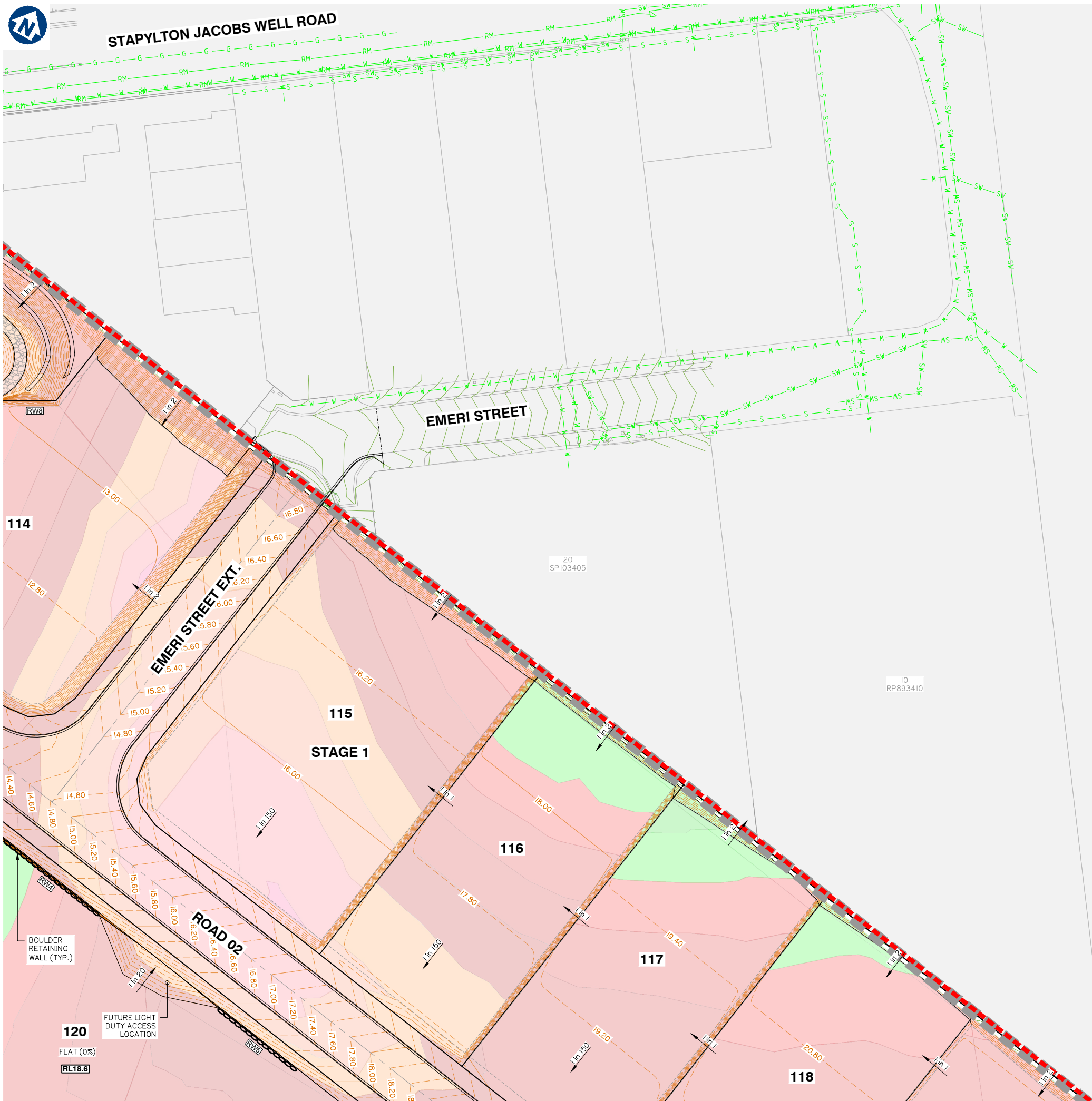
SCALE IN METRES

NOT APPLICABLE

Scale at A1: NOT APPLICABLE

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

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



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 -0.440m IN CUT AREAS AND -0.290m IN FILL AREAS.
4. A 10% BULKING FACTOR HAS BEEN APPLIED TO THE ACCUMULATIVE EXCAVATION (CUT) VOLUME AT DEPTHS 5.0m OR GREATER
5. RETAINING WALLS DO NOT EXCEED 5.0m IN HEIGHT, AND ARE NOT BENCHMARKED / TIERED



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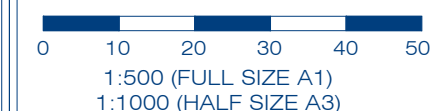
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DRAWING TITLE
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
2 OF 6

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	JFG	MG	
Requester	Date	Description	DRN	CHK	

SCALE IN METRES

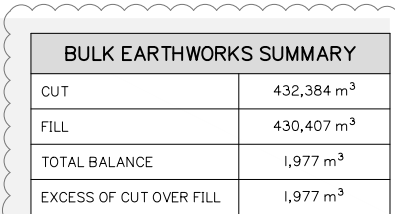


Scale at A1: 1:500

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

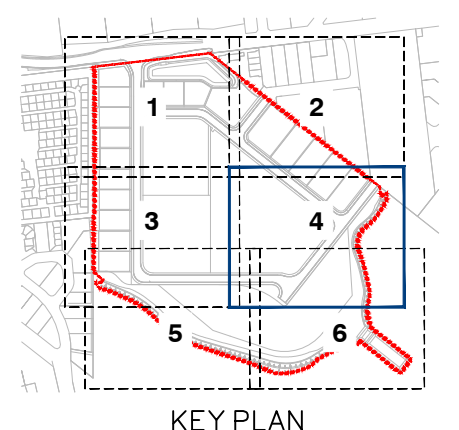
Drawing No:	Rev. No:
5941 ENG BE1 051	C

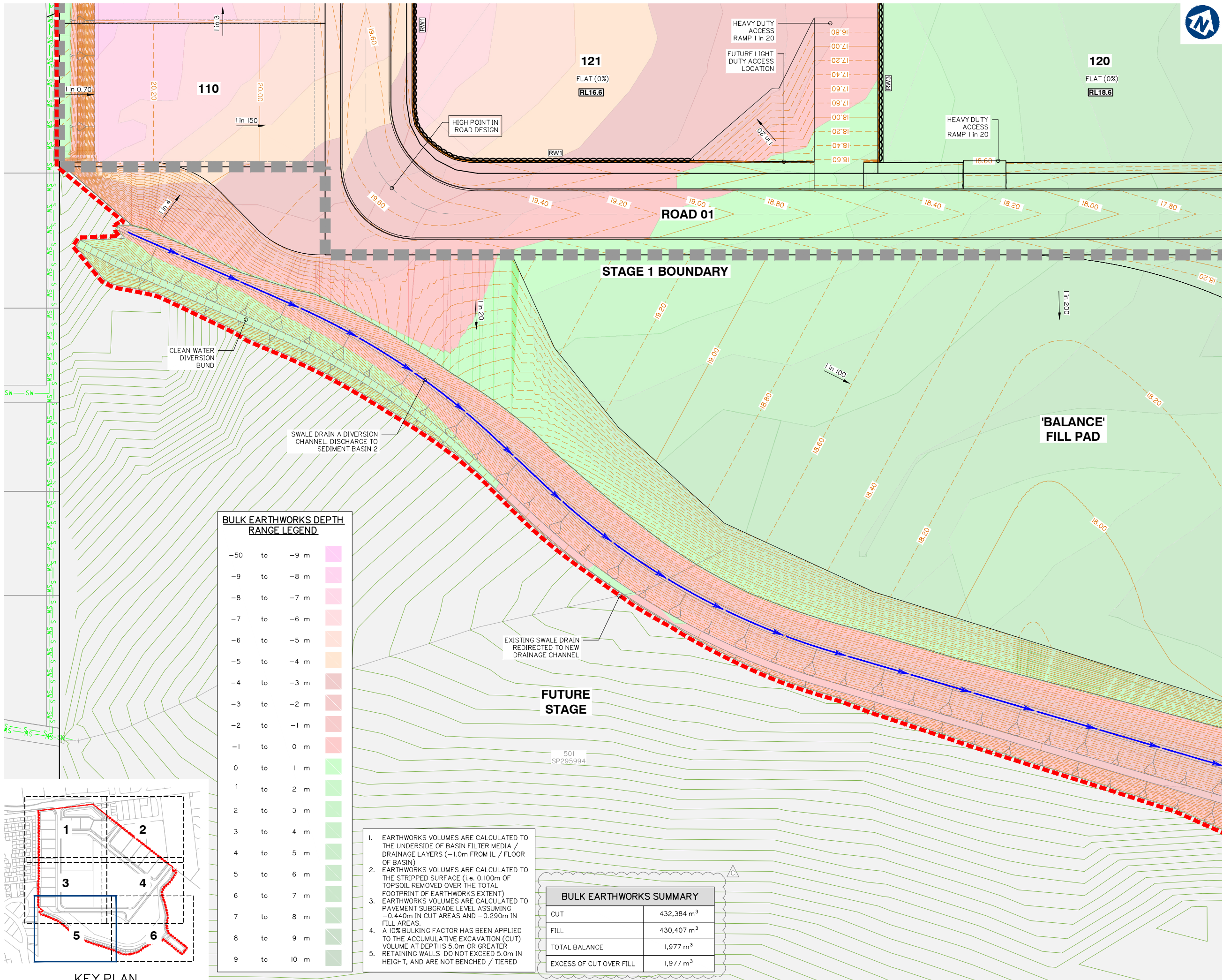




1. EARTHWORKS VOLUMES ARE CALCULATED TO THE UNDERSIDE OF BASIN FILTER MEDIA / DRAINAGE LAYERS (-1.0m FROM IL / FLOOR OF BASIN)
2. EARTHWORKS VOLUMES ARE CALCULATED TO THE STRIPPED SURFACE (i.e. 0.100m OF TOPSOIL REMOVED OVER THE TOTAL FOOTPRINT OF EARTHWORKS EXTENT)
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4.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

Depth Range (m)	Color
-50 to -9	Dark Pink
-9 to -8	Dark Pink
-8 to -7	Dark Pink
-7 to -6	Dark Pink
-6 to -5	Dark Pink
-5 to -4	Dark Pink
-4 to -3	Dark Pink
-3 to -2	Dark Pink
-2 to -1	Dark Pink
-1 to 0	Dark Pink
0 to 1	Dark Green
1 to 2	Dark Green
2 to 3	Dark Green
3 to 4	Dark Green
4 to 5	Dark Green
5 to 6	Dark Green
6 to 7	Dark Green
7 to 8	Dark Green
8 to 9	Dark Green
9 to 10	Dark Green





Client:



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Project: M38 INDUSTRIAL
PARK YATALA

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

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Lot: 501, 4
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Local Authority: CITY OF GOLD COAST
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DRAWING TITLE
BULK EARTHWORK CUT &
FILL LAYOUT PLAN SHEET
5 OF 6

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:
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

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

SWALE DRAIN A DIVERSION CHANNEL, DISCHARGE TO SEDIMENT BASIN 2

FUTURE STAGE

501
SP295994

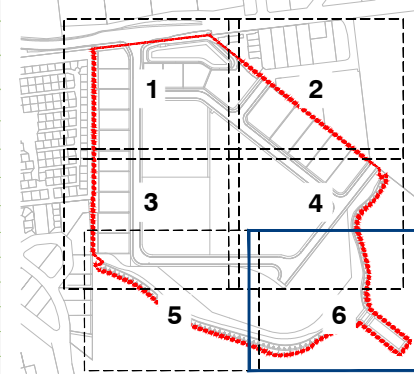
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BULK EARTHWORKS SUMMARY

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

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



KEY PLAN

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

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

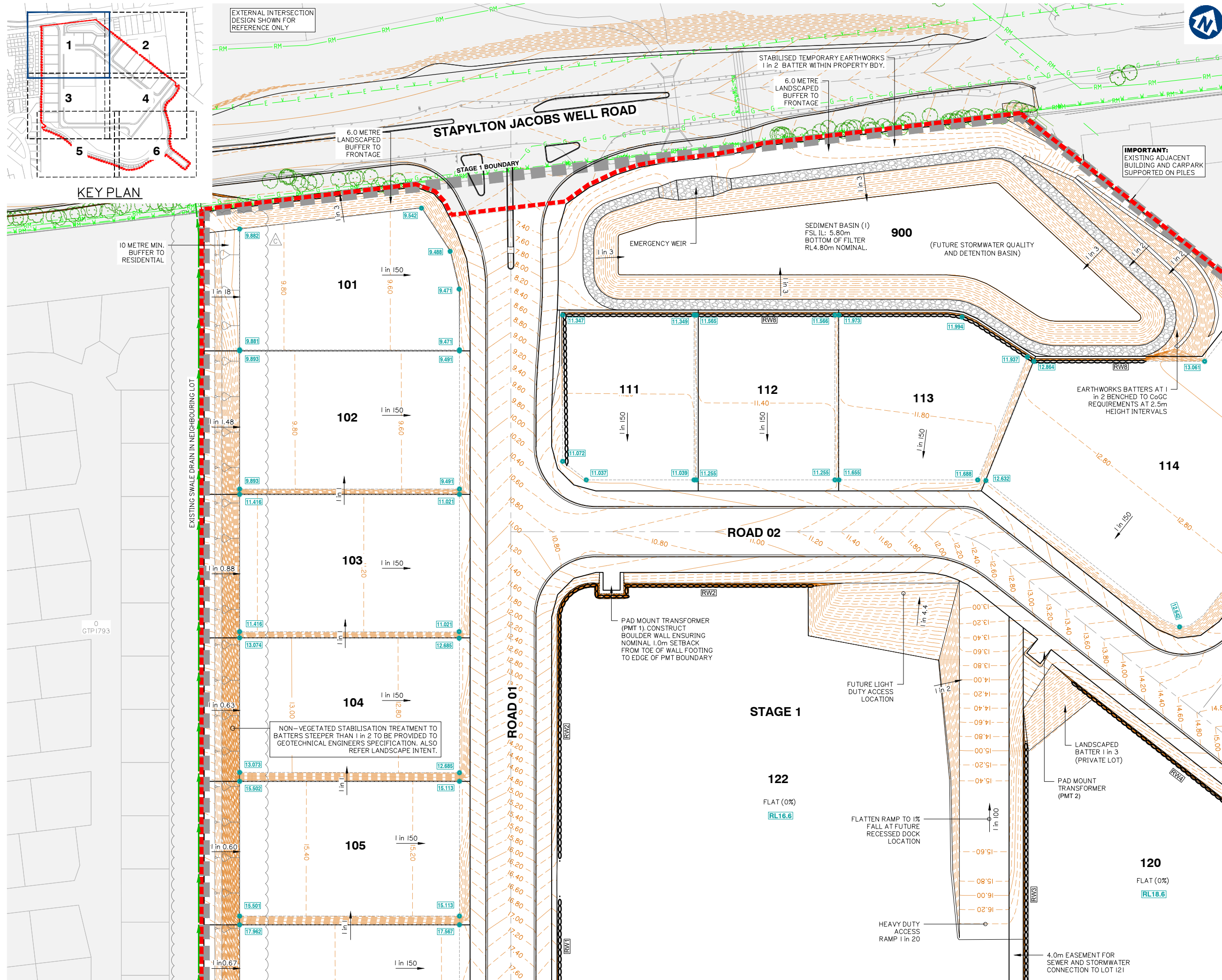
SCALE IN METRES

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: 5941 ENG BE1 055
Rev. No: C



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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

FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 1 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



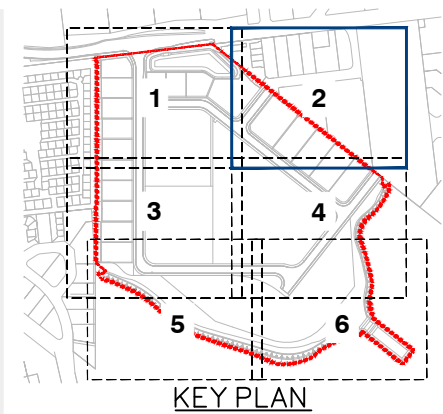
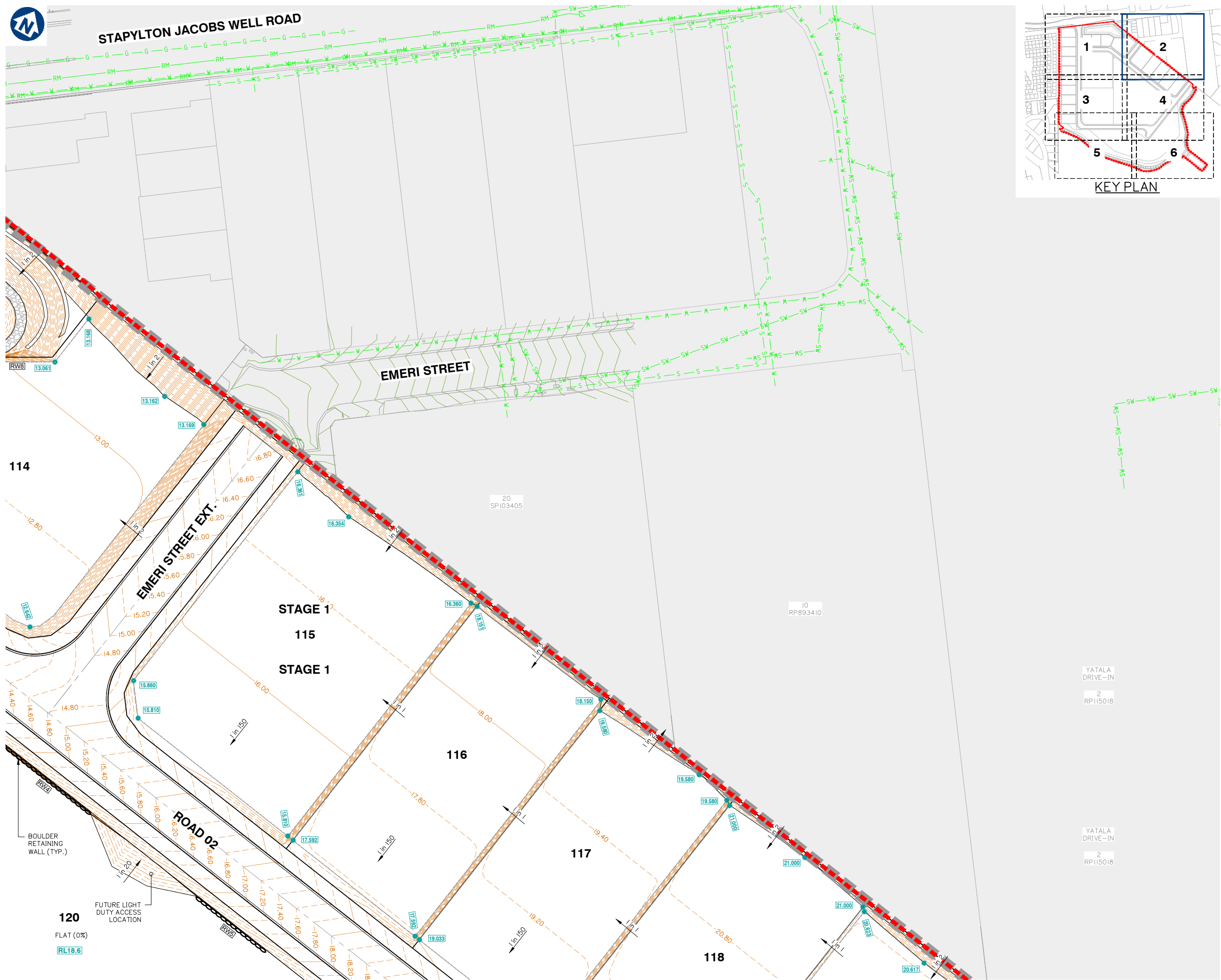
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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

Drawing No:
5941 ENG BE1 100

Rev. No:
C



Client:



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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

FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 2 OF 6

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

SCALE IN METRES



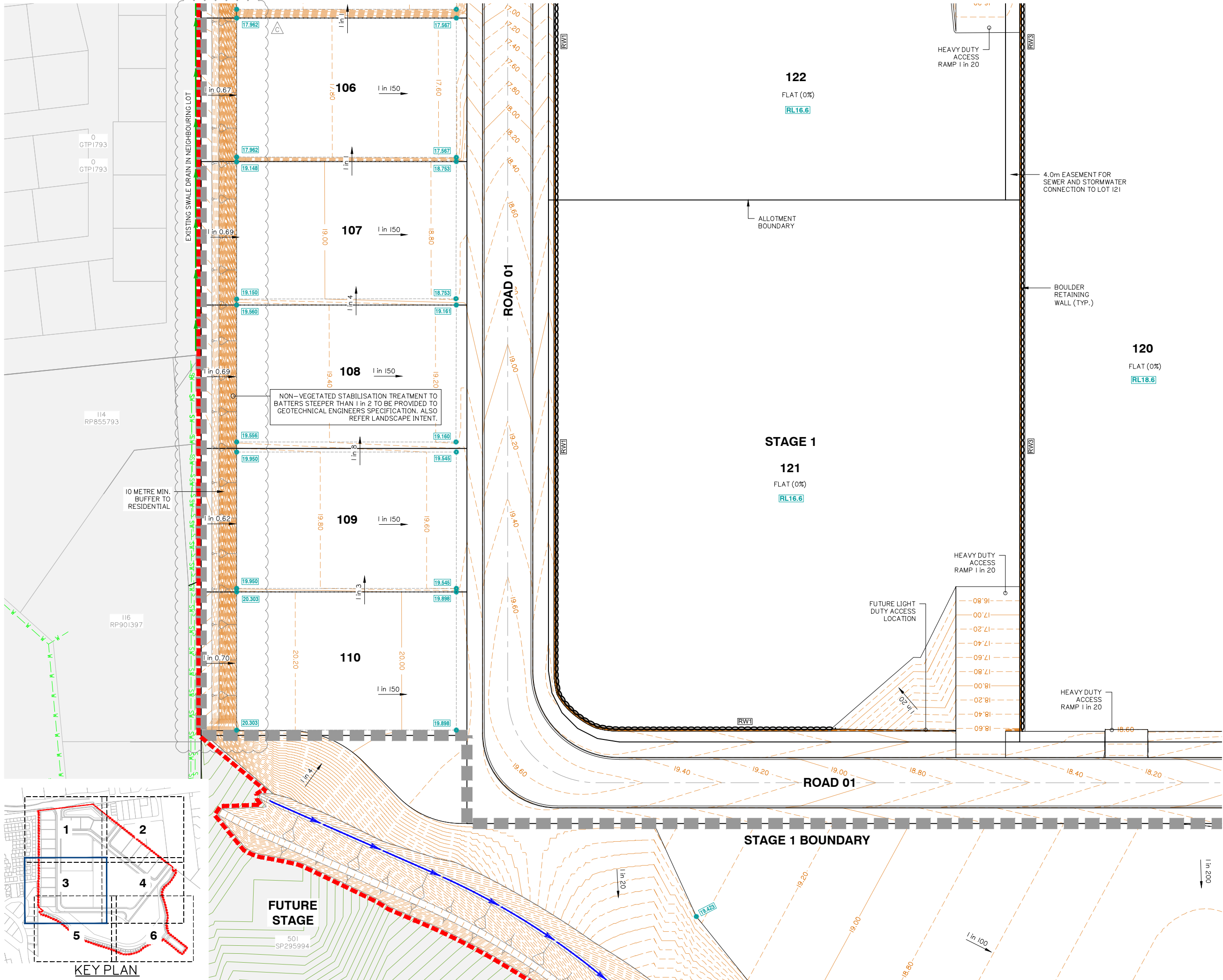
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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

Drawing No:
5941 ENG BE1 101

Rev. No:
B



Client:



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Project: M38 INDUSTRIAL
PARK YATALA

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

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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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FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 3 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

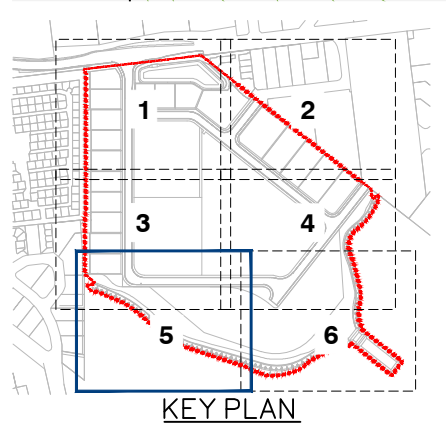


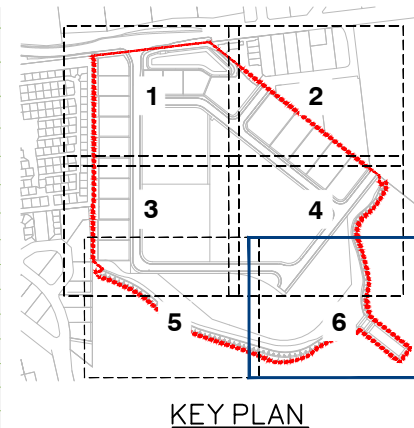
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Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

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





Client:



Project: M38 INDUSTRIAL
PARK YATALA

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

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RPD:

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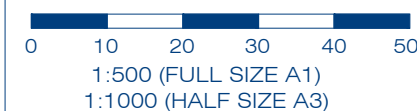
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DRAWING TITLE

FINISHED BULK
EARTHWORKS SURFACE
LEVEL PLAN SHEET 6 OF 6

[illegible]

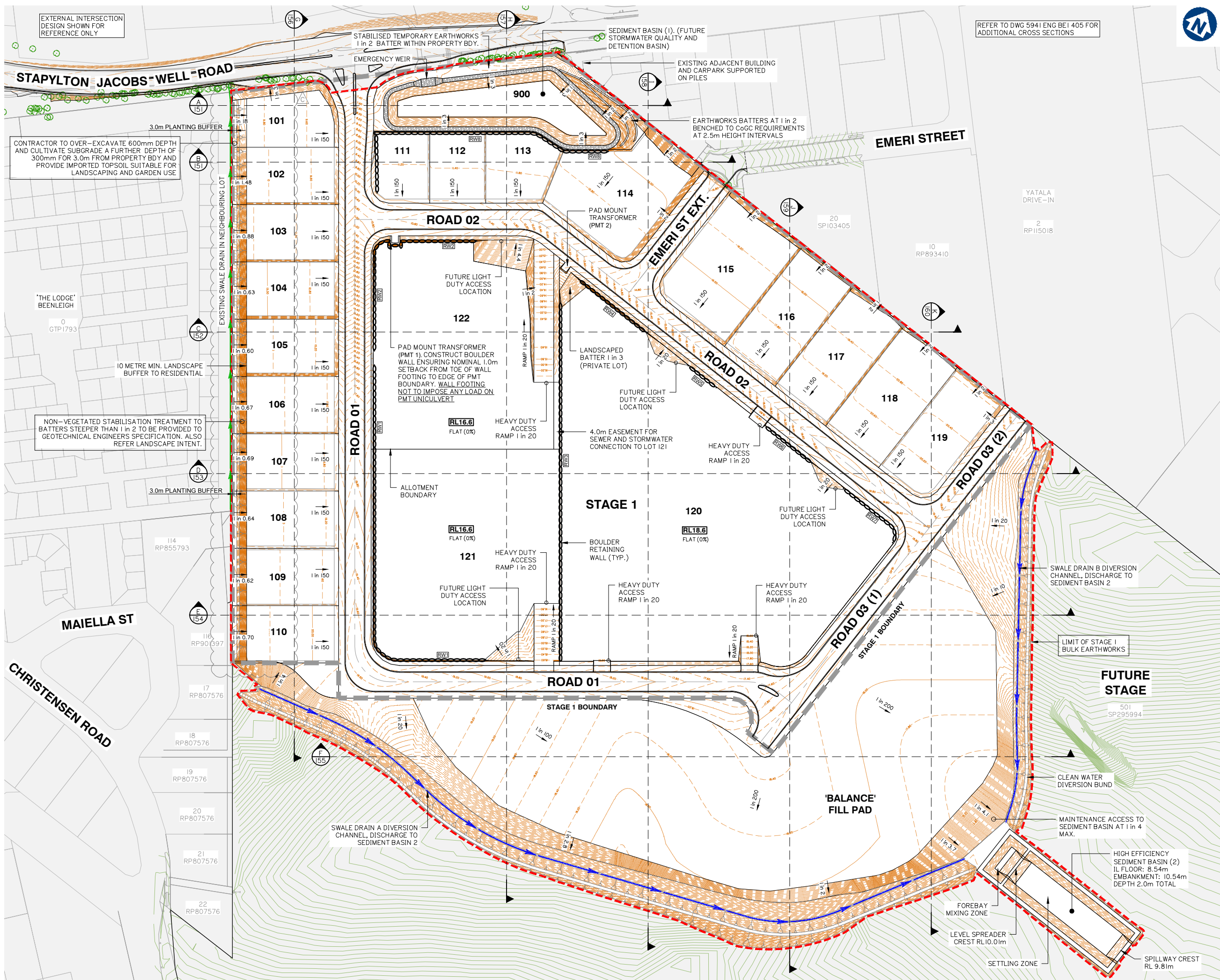
SCALE IN METRES



Scale at A1: 1:500

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

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



FINISHED EARTHWORKS CROSS SECTIONS SHEET 1 OF 11

Client:



FRASERS PROPERTY
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Project: M38 INDUSTRIAL
PARK YATALA

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

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RPD:

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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



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

Drawing No:
5941 ENG BE1 150

Rev. No:
C



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

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

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

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DRAWING TITLE
FINISHED EARTHWORKS
CROSS SECTIONS SHEET
2 OF 11

C	09-04-2020	FURTHER INFORMATION REQUEST RESPONSE	BA	M	
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:

HOZ: 

VERT: 

Scale at A1: AS SHOWN

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

Drafted:	JBG
----------	-----

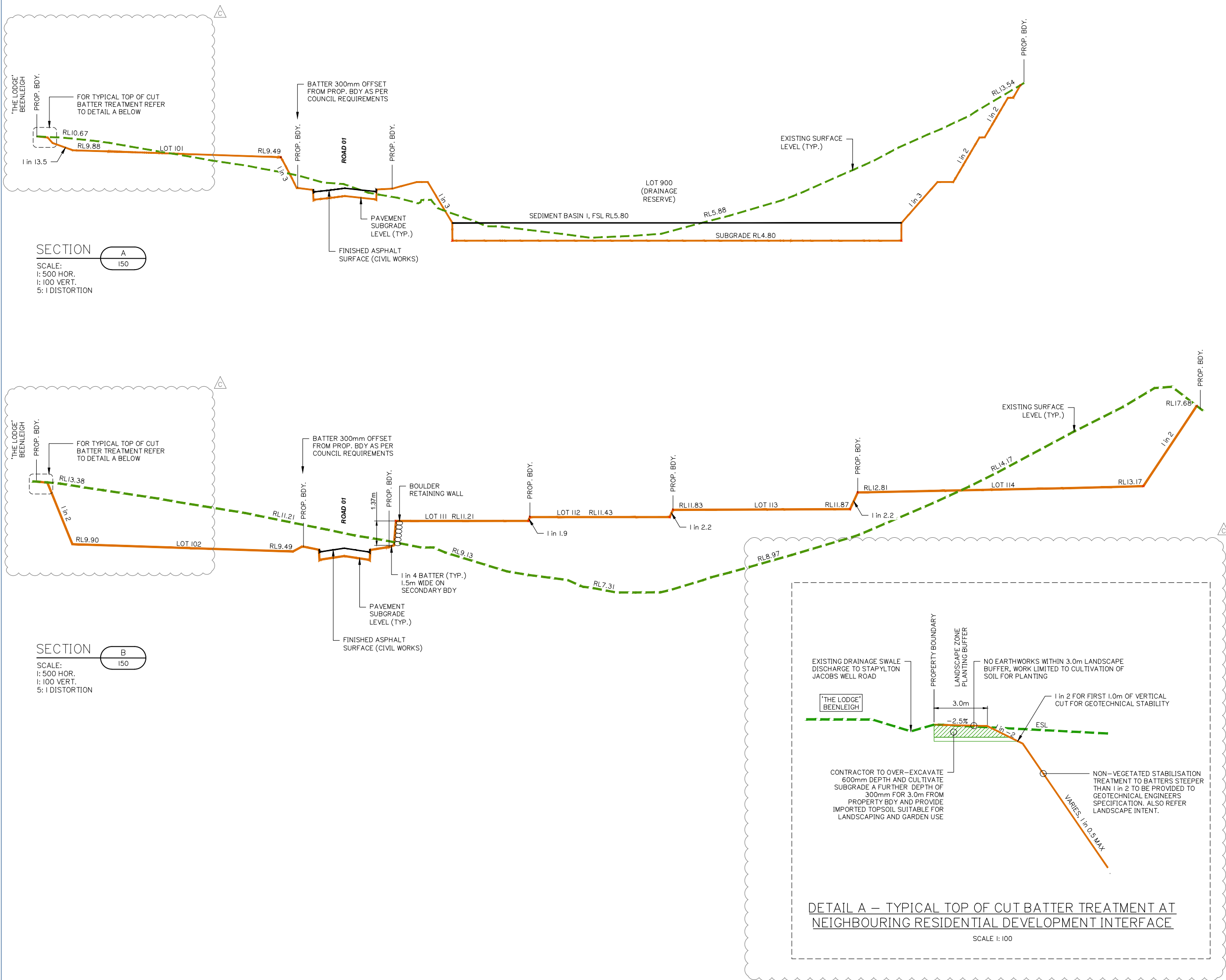
Approved:	MG
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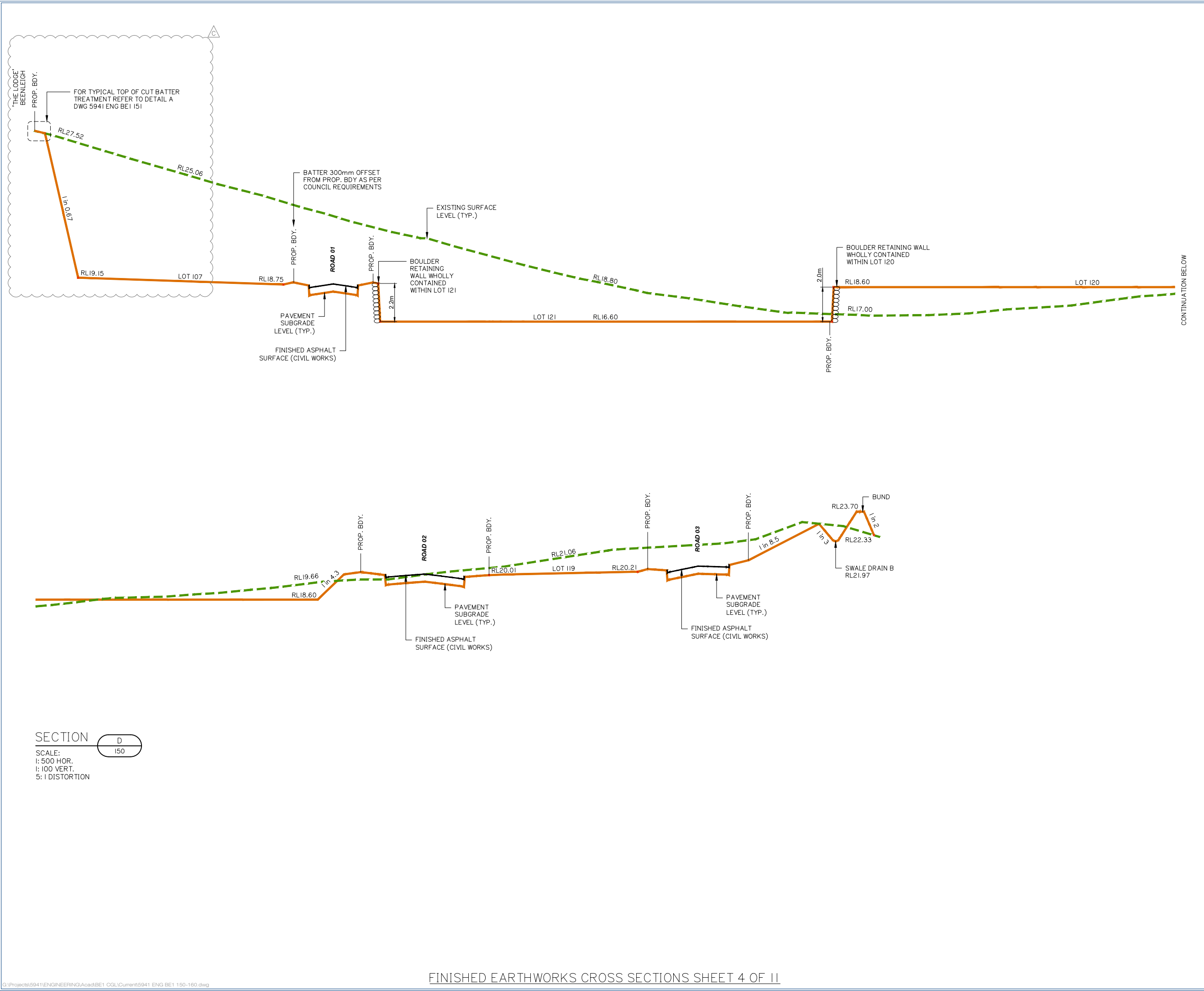
RPEQ:	1692
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Signed:	
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Date:	20-02-2020
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Drawing No:	Rev. No:
5941 ENG BE1 151	C





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Site Address:
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FINISHED EARTHWORKS
CROSS SECTIONS SHEET
4 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

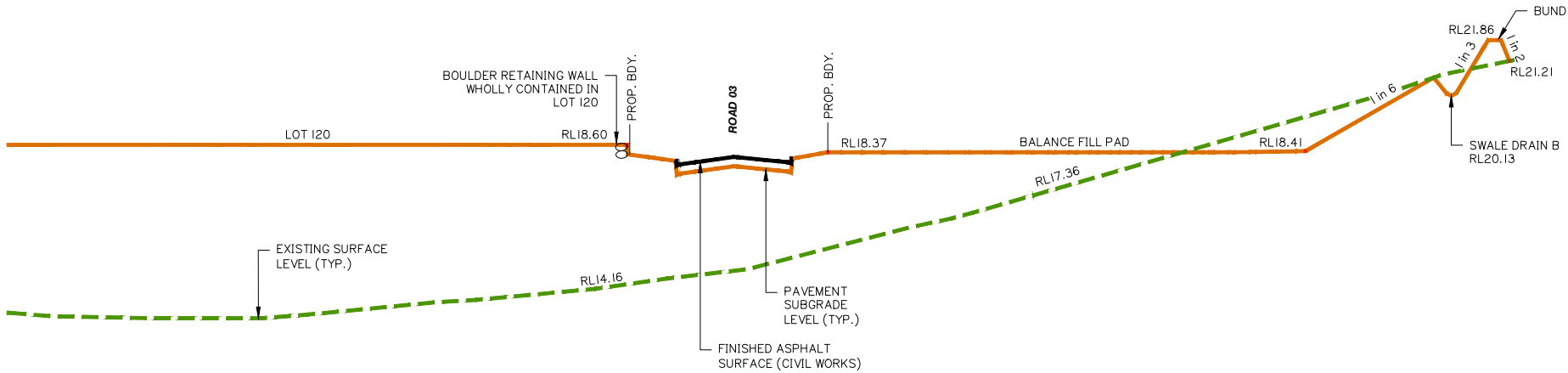
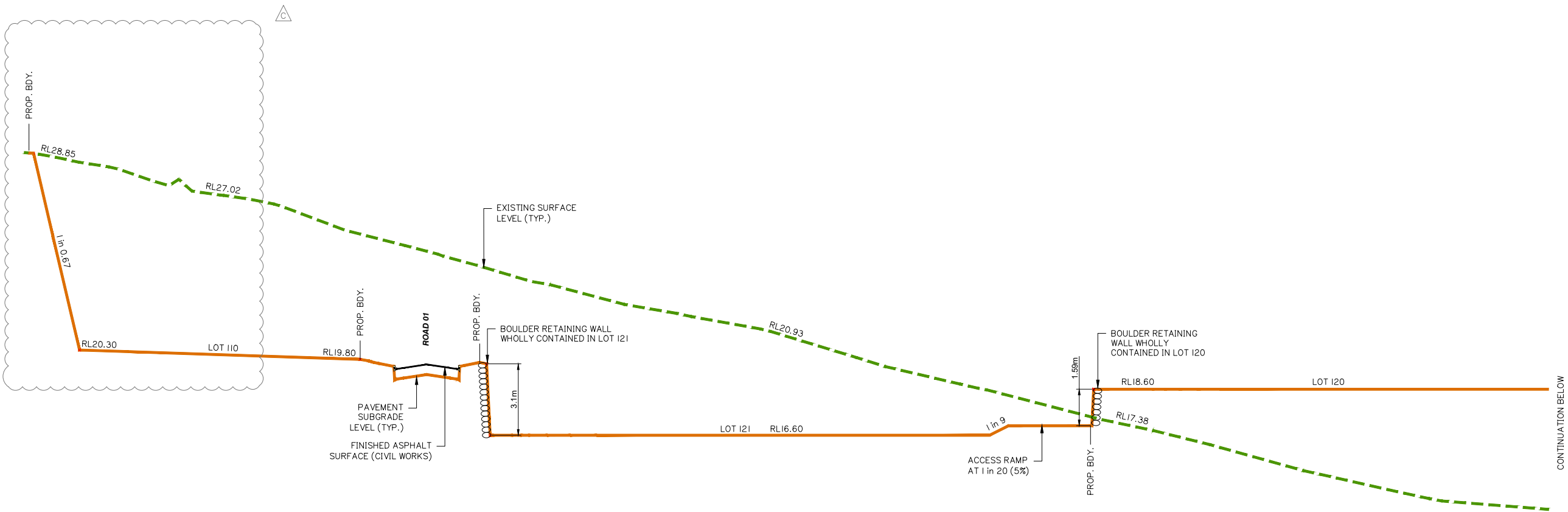
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

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

Scale at A1: AS SHOWN

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

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



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



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FINISHED EARTHWORKS
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5 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

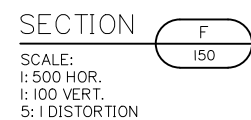
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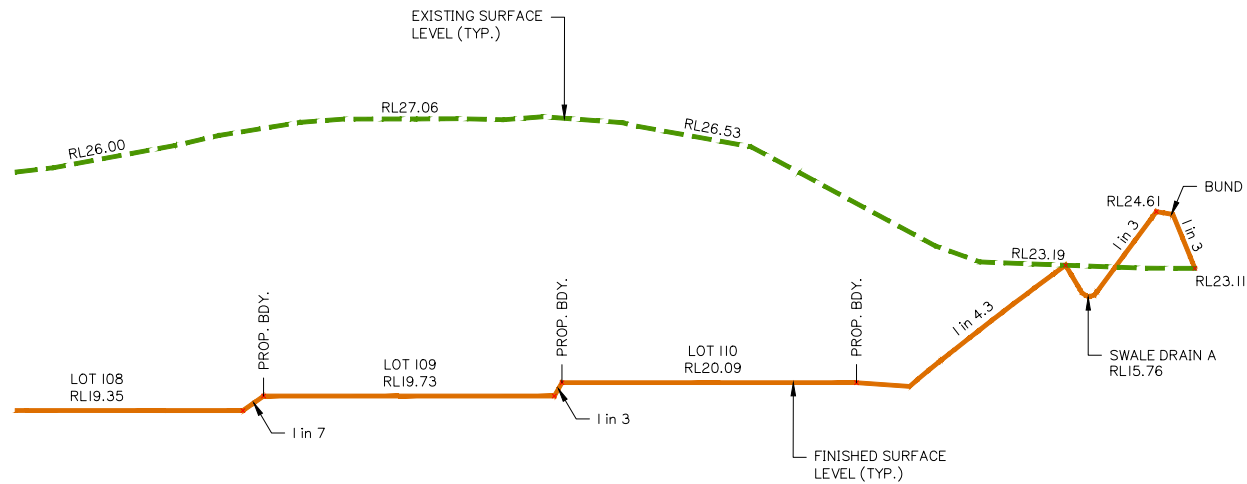
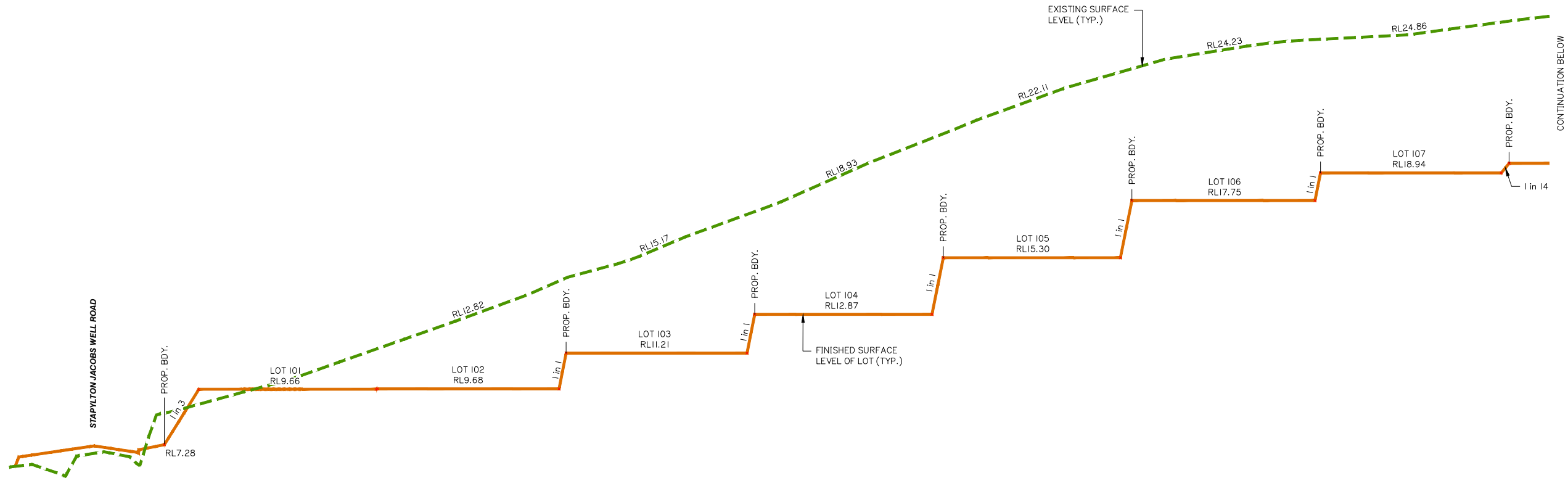
Scale 1:100 - Lengths are in Metres.
VERT: 0 1 2 3 4 5 6 7 8

Scale at A1: AS SHOWN

Designed:	IG
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Drawing No: 5941 ENG BE1 154 Rev. No: C





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

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CROSS SECTIONS SHEET
7 OF 11

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

SCALE IN METRES

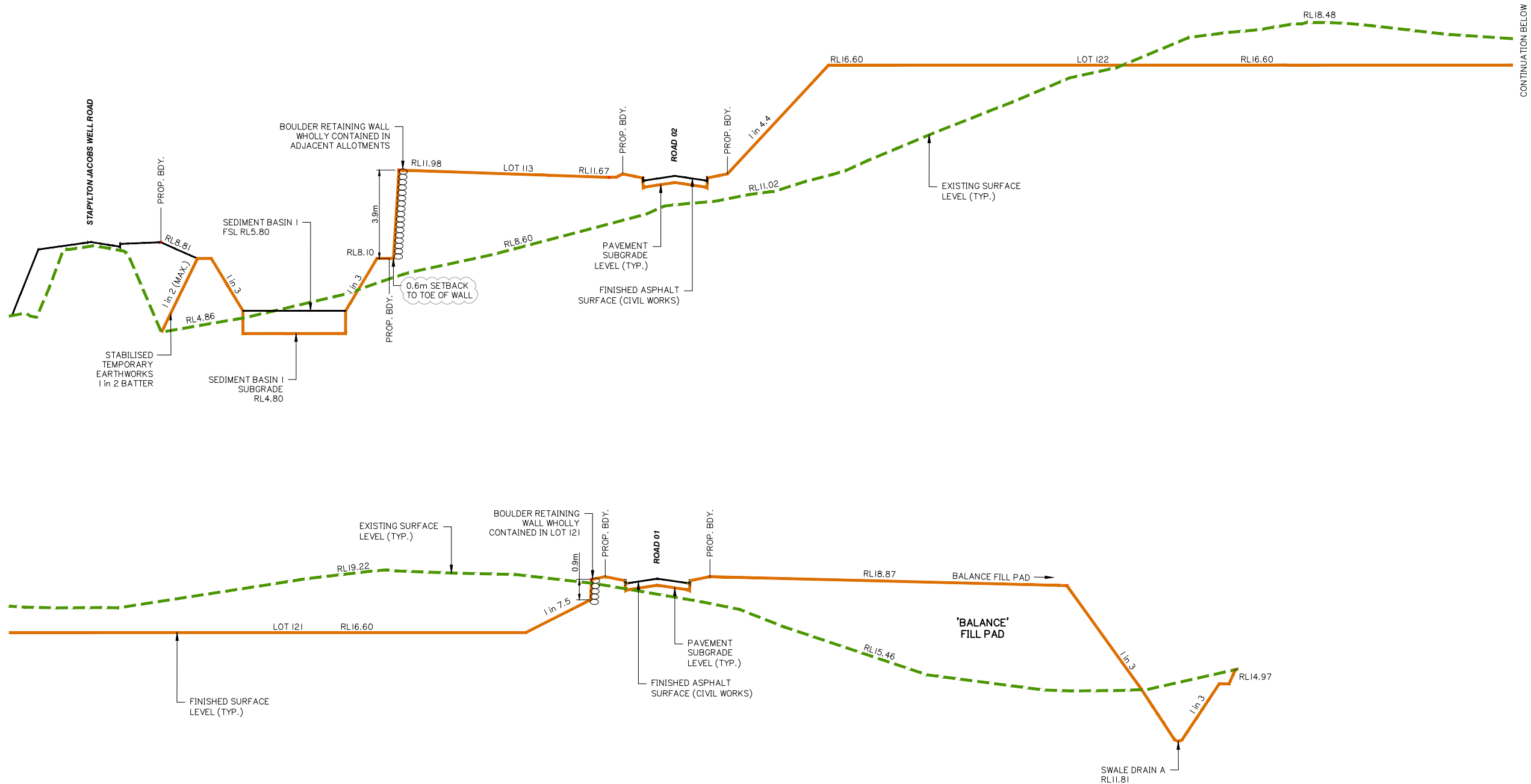
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

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

Scale at A1: AS SHOWN

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

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



SECTION H
150

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



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CROSS SECTIONS SHEET
8 OF 11

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

SCALE IN METRES

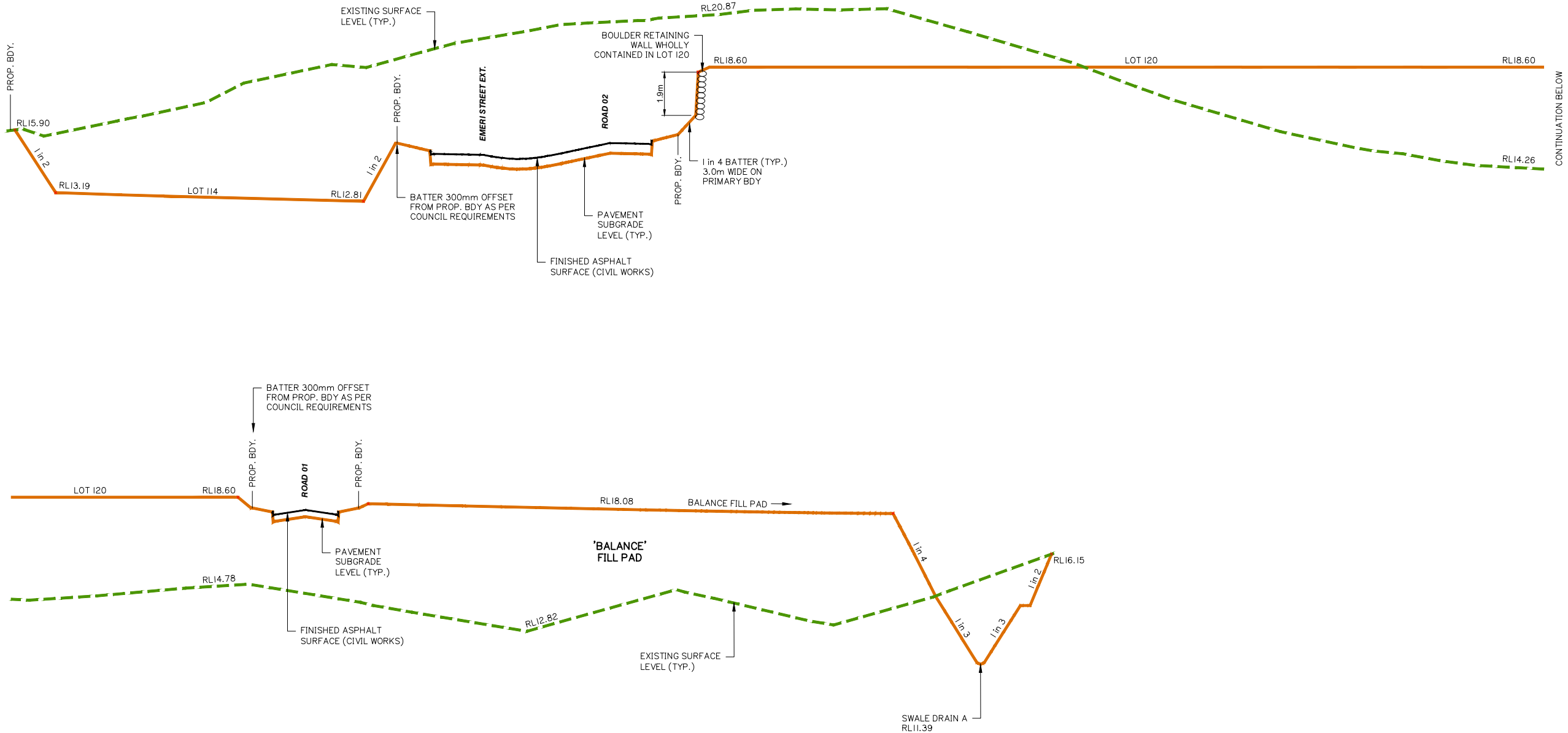
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

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

Scale at A1: AS SHOWN

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

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



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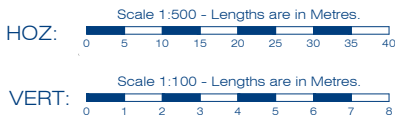
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FINISHED EARTHWORKS
CROSS SECTIONS SHEET
9 OF 11

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

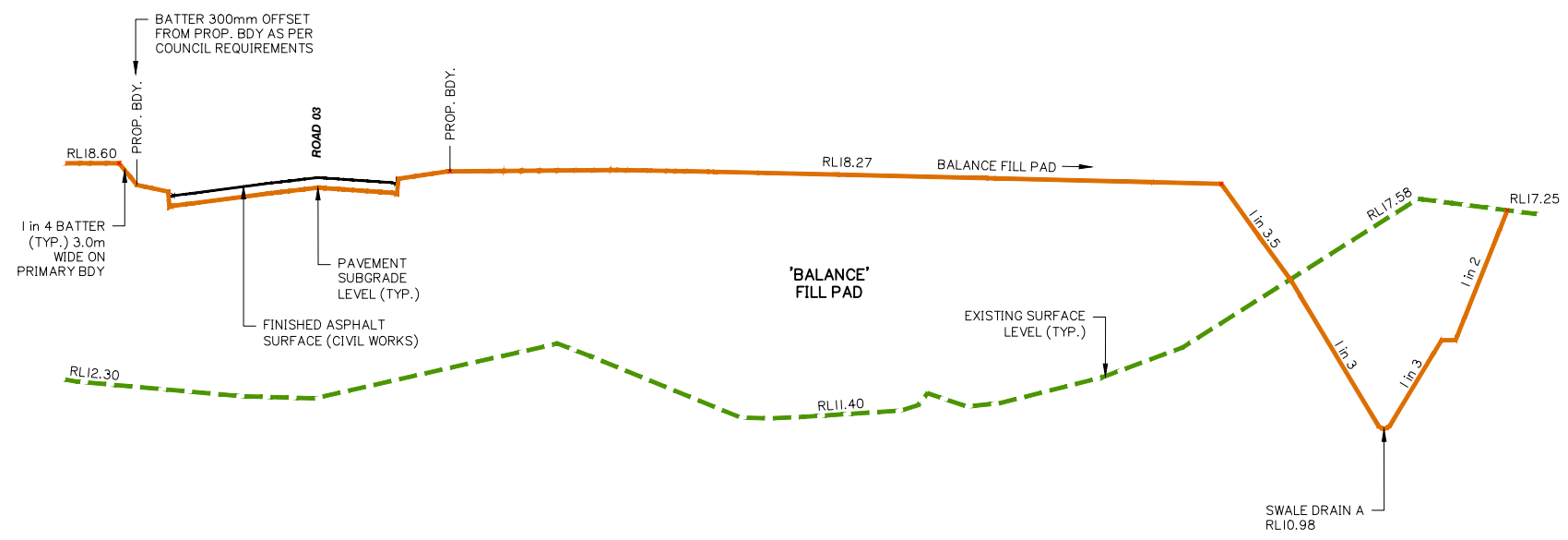
SCALE IN METRES



Scale at A1: AS SHOWN

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

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



FINISHED EARTHWORKS CROSS SECTIONS SHEET 10 OF 11

Site Address:
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RPD:

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

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

SCALE IN METRES

Scale 1:500 – Lengths are in Metres.

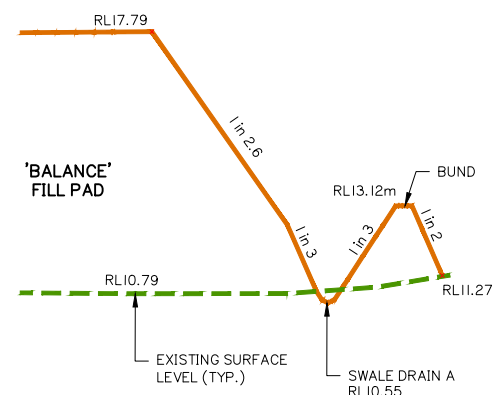
HOZ: 

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 159	B



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

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

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



Client:



Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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RPD:	
Lot:	501, 4
Plan:	SP295994, RP6843
Local Authority:	CITY OF GOLD COAST COUNCIL
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DRAWING TITLE

BULK EARTHWORKS ROAD TYPICAL SECTIONS

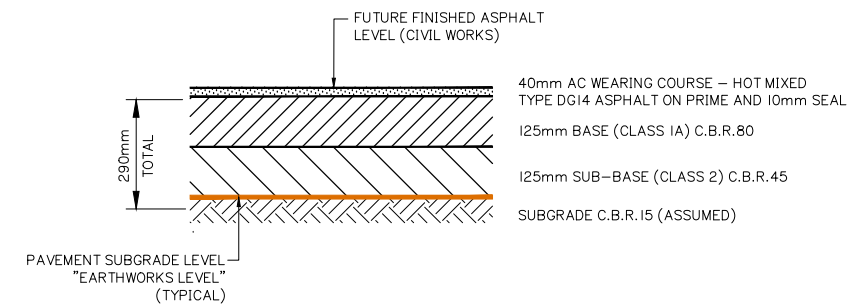
B	20-02-2020	INFORMATION REQUEST RESPONSE		IG	MG
A	20-12-2019	ORIGINAL ISSUE		JRG	MG
Issue	Date	Description		DRN	CHK

NOT APPLICABLE

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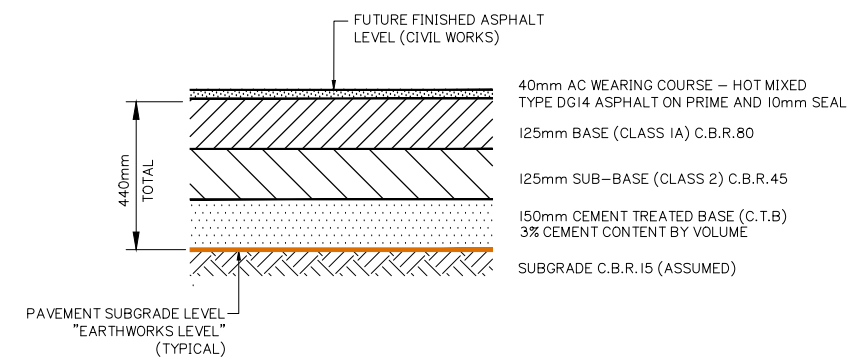
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

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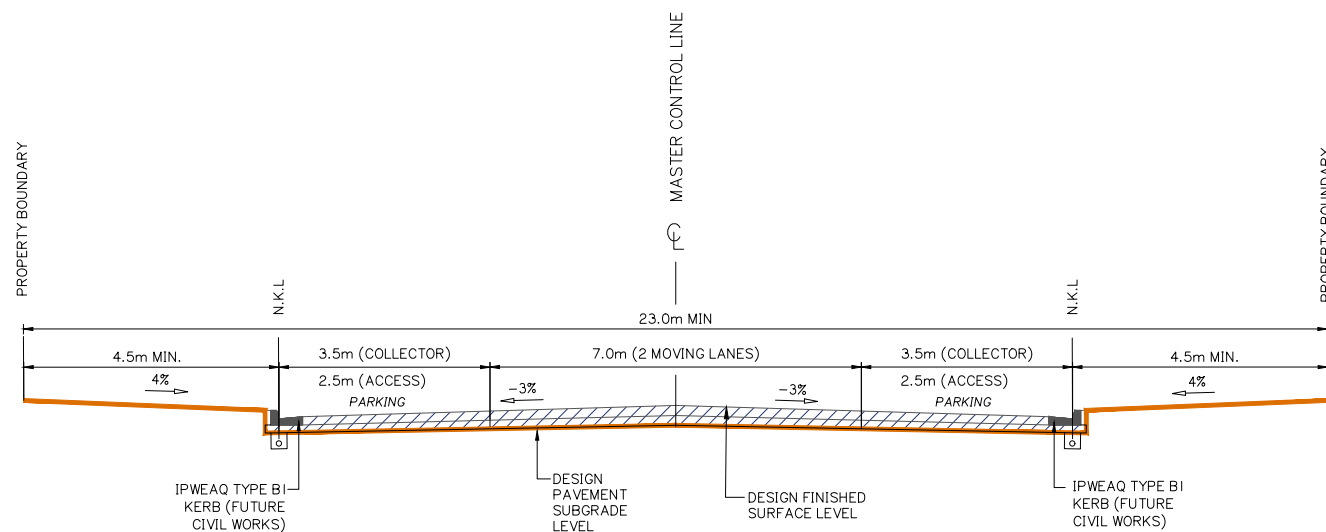
NOMINAL ROAD PAVEMENT DETAIL – IN FILL AREAS
INDUSTRIAL COLLECTOR & ACCESS STREET

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



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

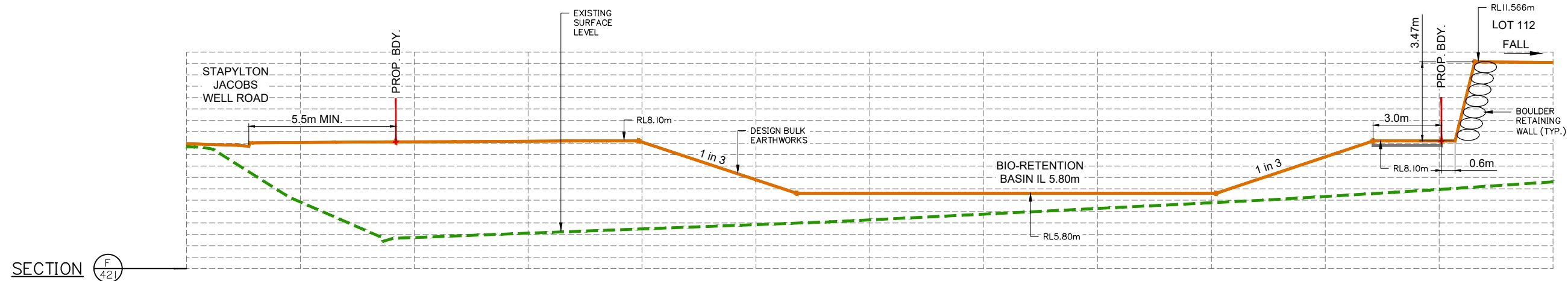
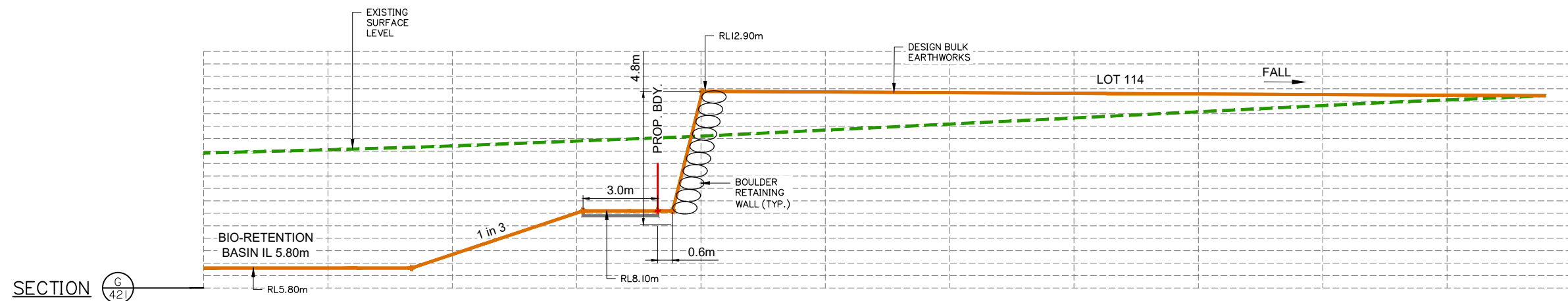
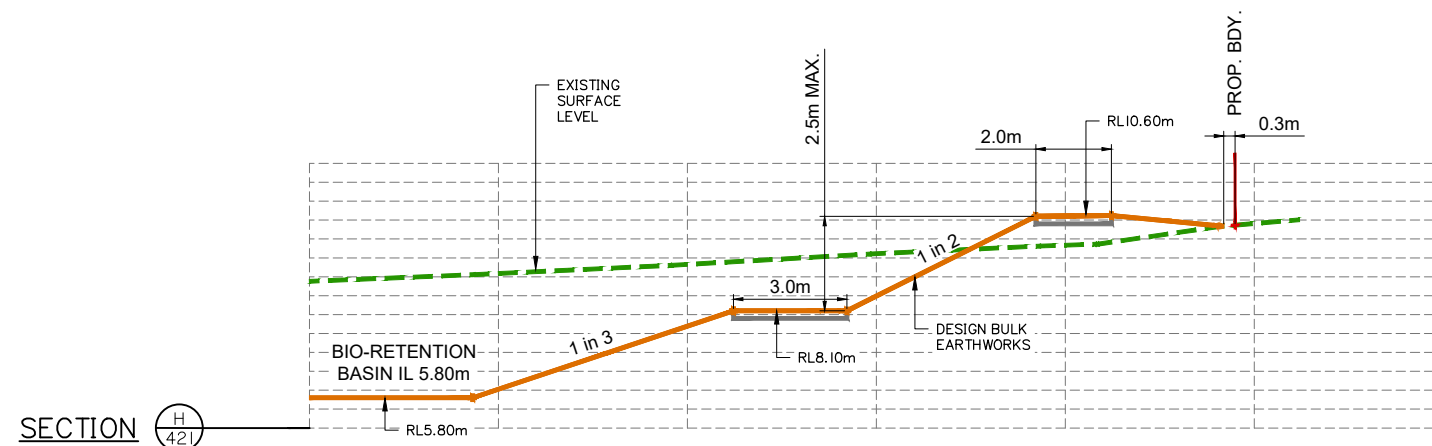
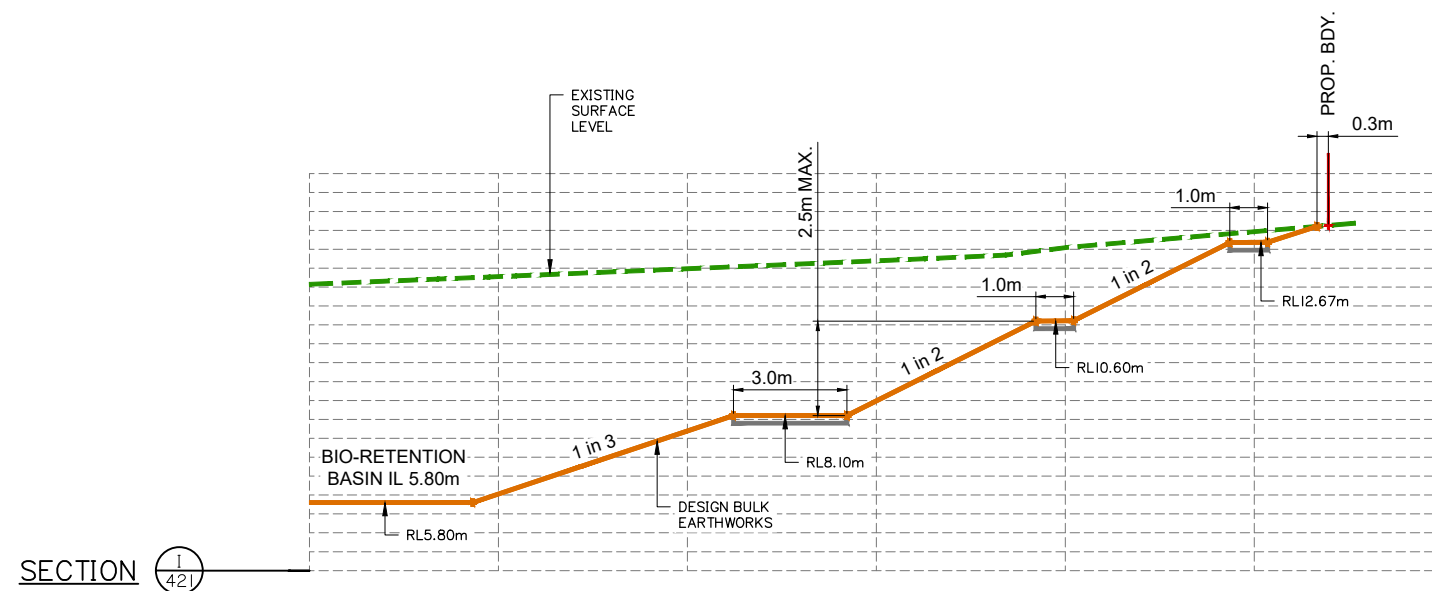
PAVEMENT DESIGN SUBJECT TO IN-SITU CBR TESTING AND
FURTHER COUNCIL APPROVAL.
N.T.S



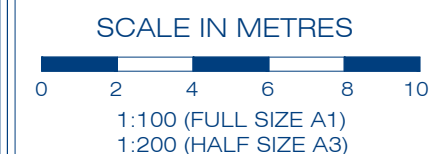
TYPICAL CROSS SECTION – INDUSTRIAL / COMMERCIAL
COLLECTOR AND ACCESS STREETS (23.0m)

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

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



A	20-02-2020				
Issue Date		ORIGINAL ISSUE Description		IG DEN	MCH



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



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CONTROL LINE LAYOUT
PLAN SHEET 1 OF 2

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



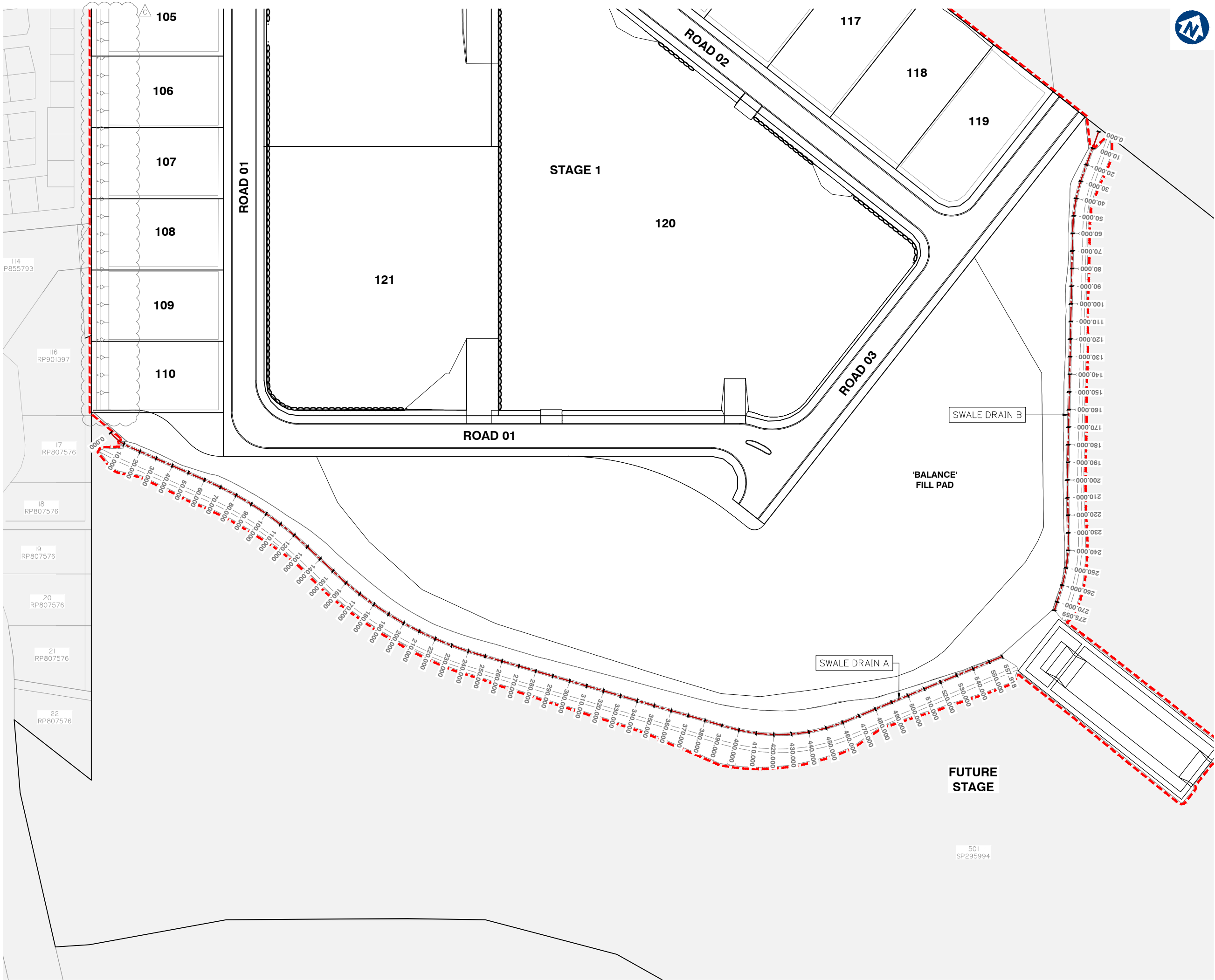
1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1: 1:1000

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CONTROL LINE LAYOUT
PLAN SHEET 2 OF 2

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	
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SCALE IN METRES



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

Scale at A1: 1:1000

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

Drawing No:
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Rev. No:
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CONTROL LINE LAYOUT PLAN SHEET 2 OF 2

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

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



Project: M38 INDUSTRIAL PARK YATALA

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

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Lot: 501, 4
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Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
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Contour Interval: -
PSM: -
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DRAWING TITLE
ROAD CONTROL LINE
SETOUT TABLES SHEET
3 OF 3

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

SCALE IN METRES

NOT APPLICABLE

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

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Project: M38 INDUSTRIAL
PARK YATALA

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DRAWING TITLE

ROAD 01 LONGITUDINAL
SECTION SHEET 1 OF 3

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

SCALE IN METRES

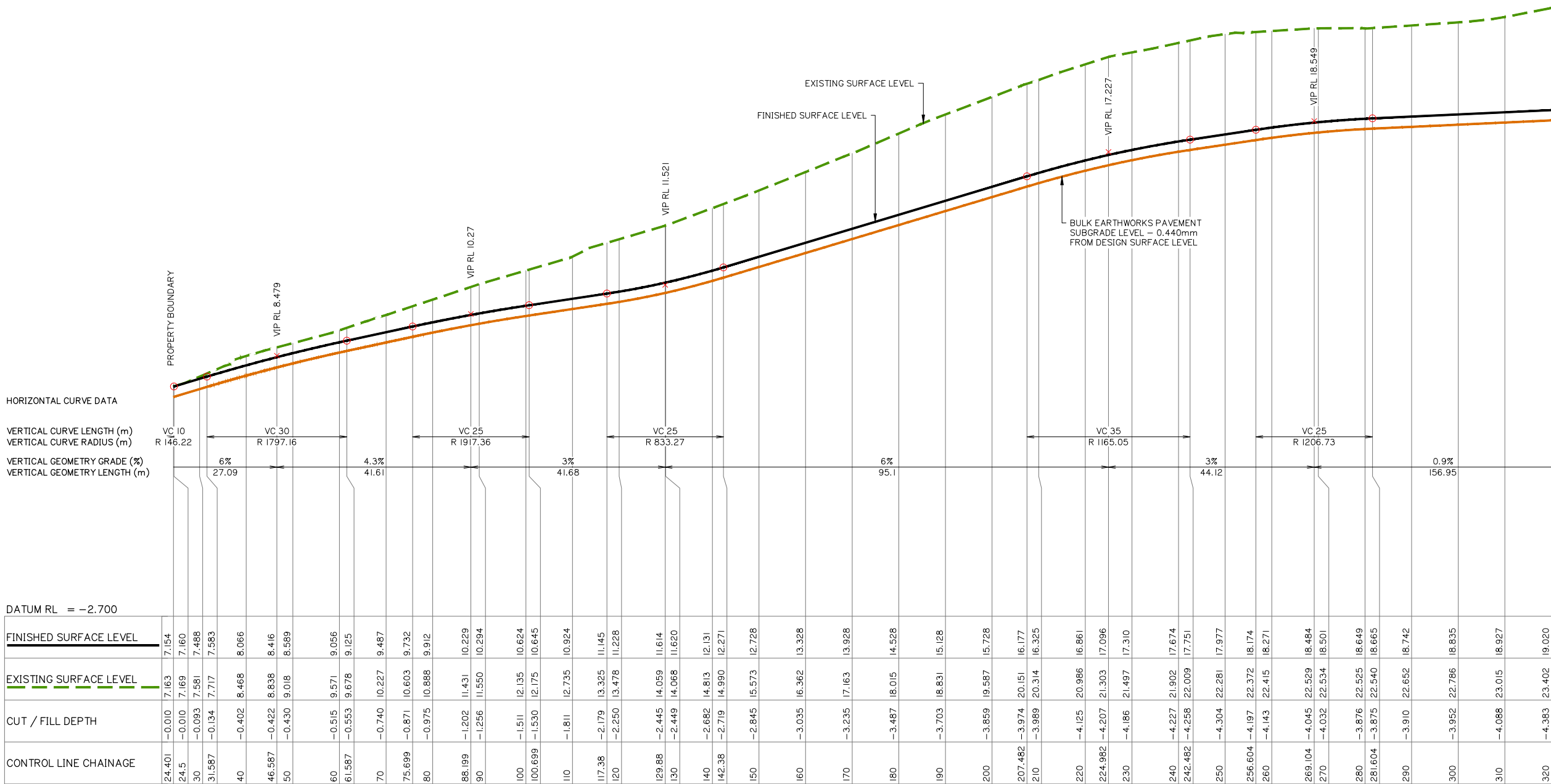
Scale 1:500 - Lengths are in Metres.
HOZ: 0 5 10 15 20 25 30 35 40

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

Scale at A1: AS SHOWN

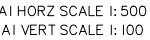
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

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



ROAD 01 LONGITUDINAL SECTION SHEET 1 OF 3

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



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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ROAD, STAPYLTON QLD 4207

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Lot:	501, 4
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DRAWING TITLE

ROAD 01 LONGITUDINAL
SECTION SHEET 3 OF 3

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

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ: 

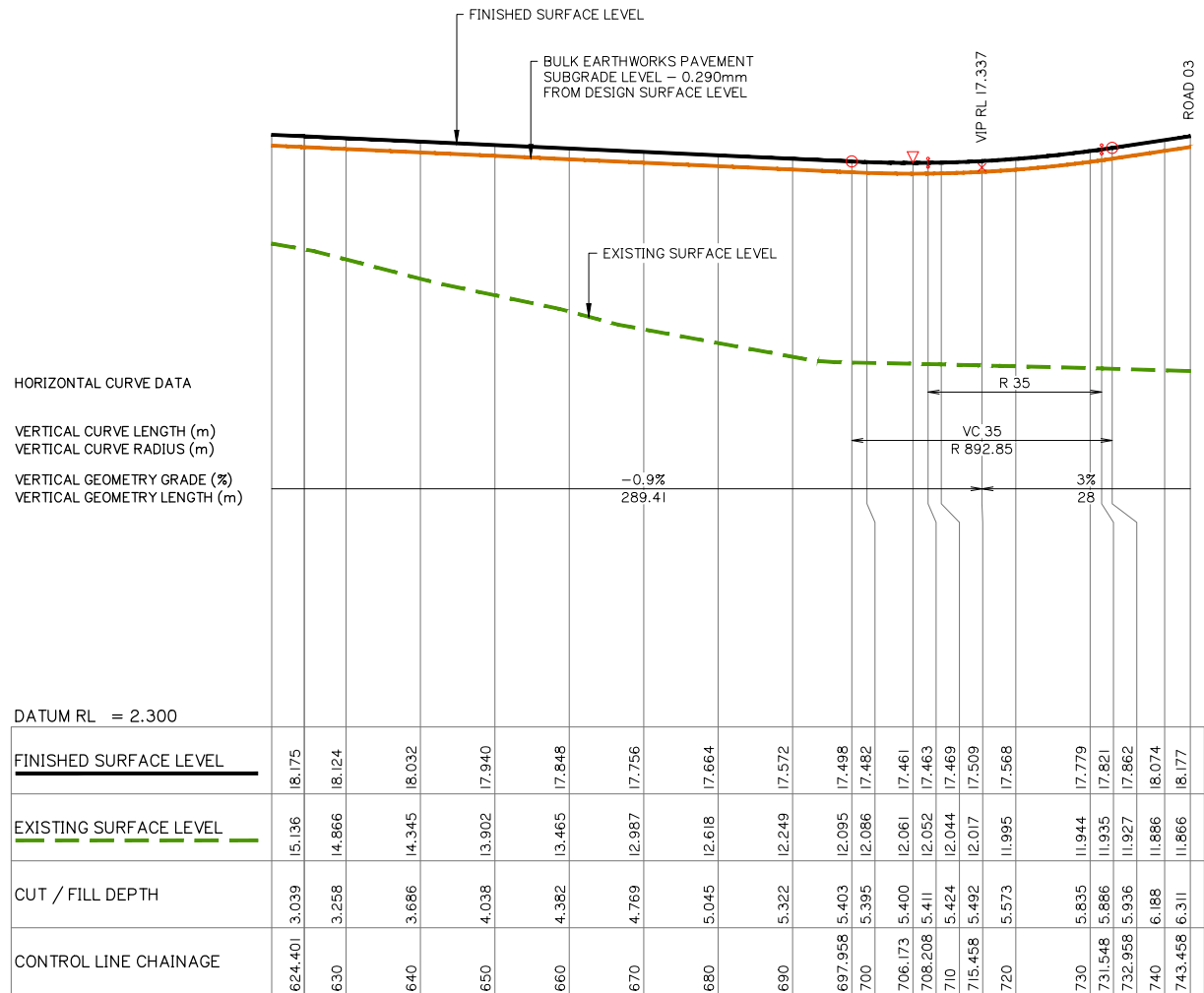
Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

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

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



ROAD 01 LONGITUDINAL SECTION SHEET 3 OF 3

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

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ROAD 02 LONGITUDINAL
SECTION 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 1:500 - Lengths are in Metres.

HOZ: 

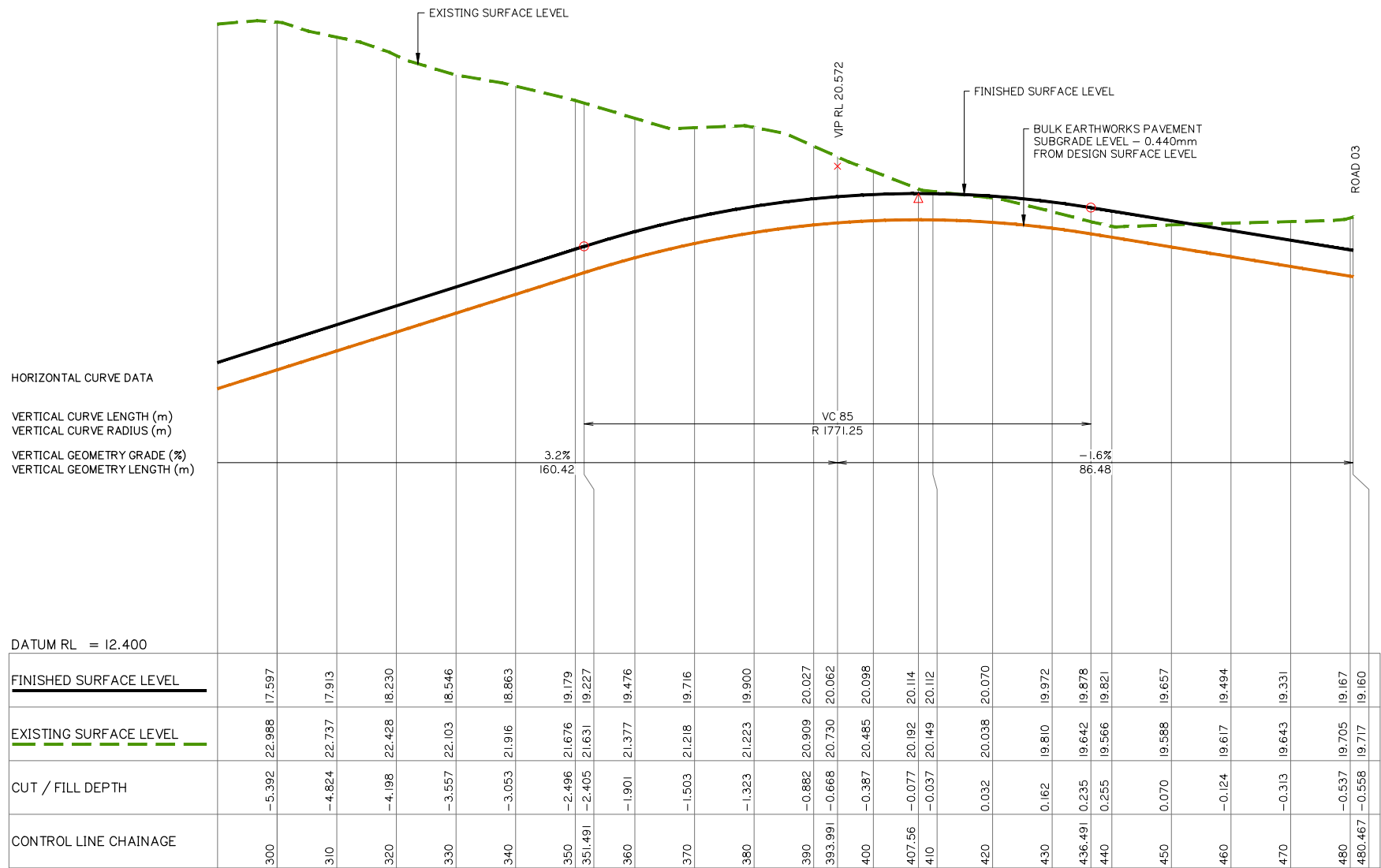
Scale 1:50 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

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

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5941 ENG BE1 414	B



ROAD 02 LONGITUDINAL SECTION SHEET 2 OF 2

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



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DRAWING TITLE

ROAD 03 (1) LONGITUDINAL SECTION

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

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

Scale 1:50 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

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

Date:	20-02-2020
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Drawing No:	Rev. No:
5941 ENG BE1 415	B



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



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DRAWING TITLE

ROAD 03 (2) LONGITUDINAL SECTION

B	20-02-2020	INFORMATION REQUEST RESPONSE	IG	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:

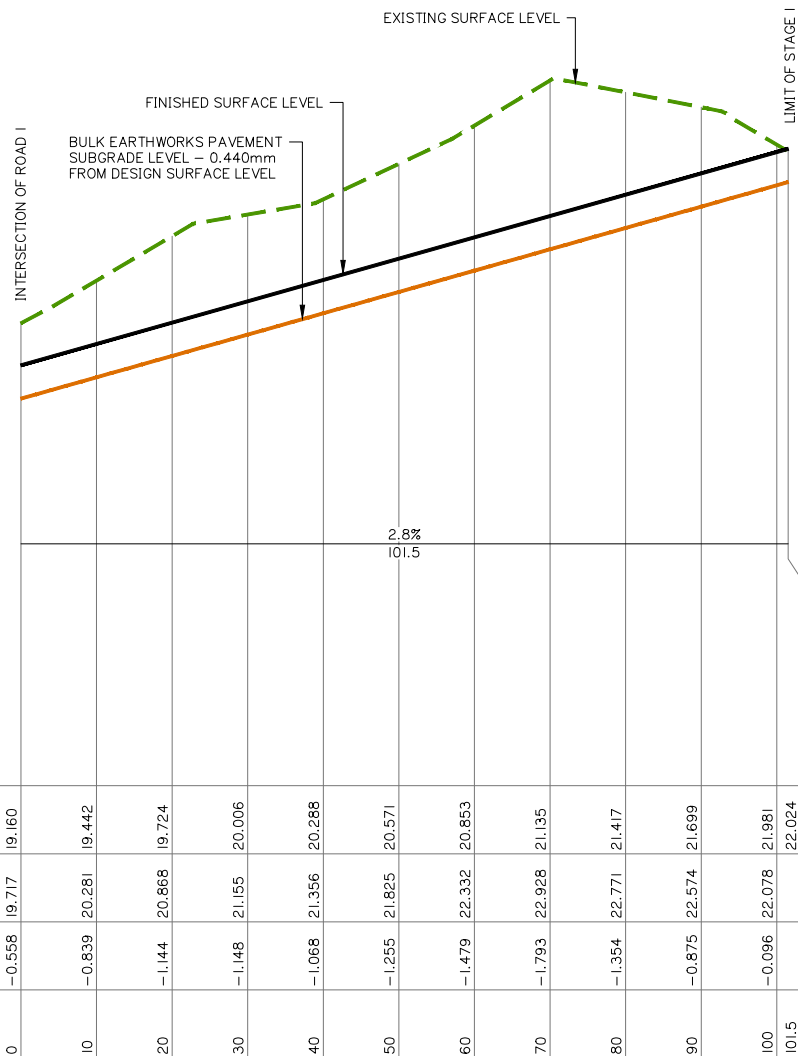
Scale 1:50 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

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

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



ROAD 03 (2) LONGITUDINAL SECTION

AI HORIZ SCALE 1:500
AI VERT SCALE 1:50



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DRAWING TITLE

EMERI STREET EXT.
LONGITUDINAL SECTION

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

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HOZ:

Scale 1:50 - Lengths are in Metres.

VERT:

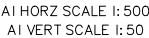
Scale at A1: AS SHOWN

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

Drawing No:	Rev. No:
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AI HORZ SCALE 1: 500
AI VERT SCALE 1: 50





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Contour Interval:	-
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DRAWING TITLE
SWALE DRAIN A
LONGITUDINAL SECTION
SHEET 2 OF 2

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

Scale 1:500 - Lengths are in Metres.

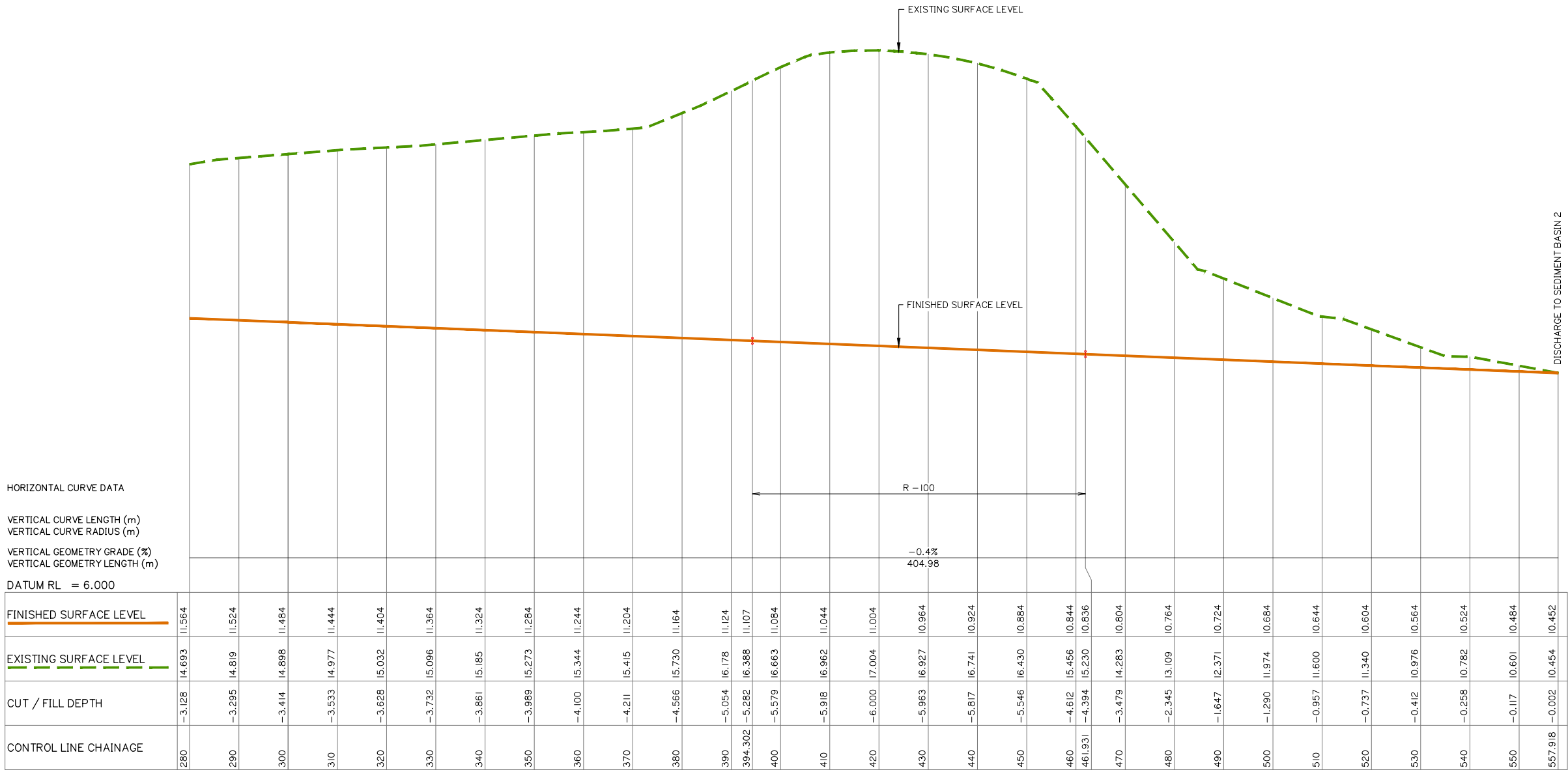
HOZ: 

VERT: 

Scale at A1: AS SHOWN

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

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



SWALE DRAIN A LONGITUDINAL SECTION SHEET 2 OF 2

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

SCALE IN METRES

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



A horizontal scale bar with a total length of 40 units. It is divided into 8 equal segments by 9 vertical tick marks. The segments are numbered 0, 5, 10, 15, 20, 25, 30, 35, and 40.

VERT: Scale 1:50 - Lengths are in Metres.



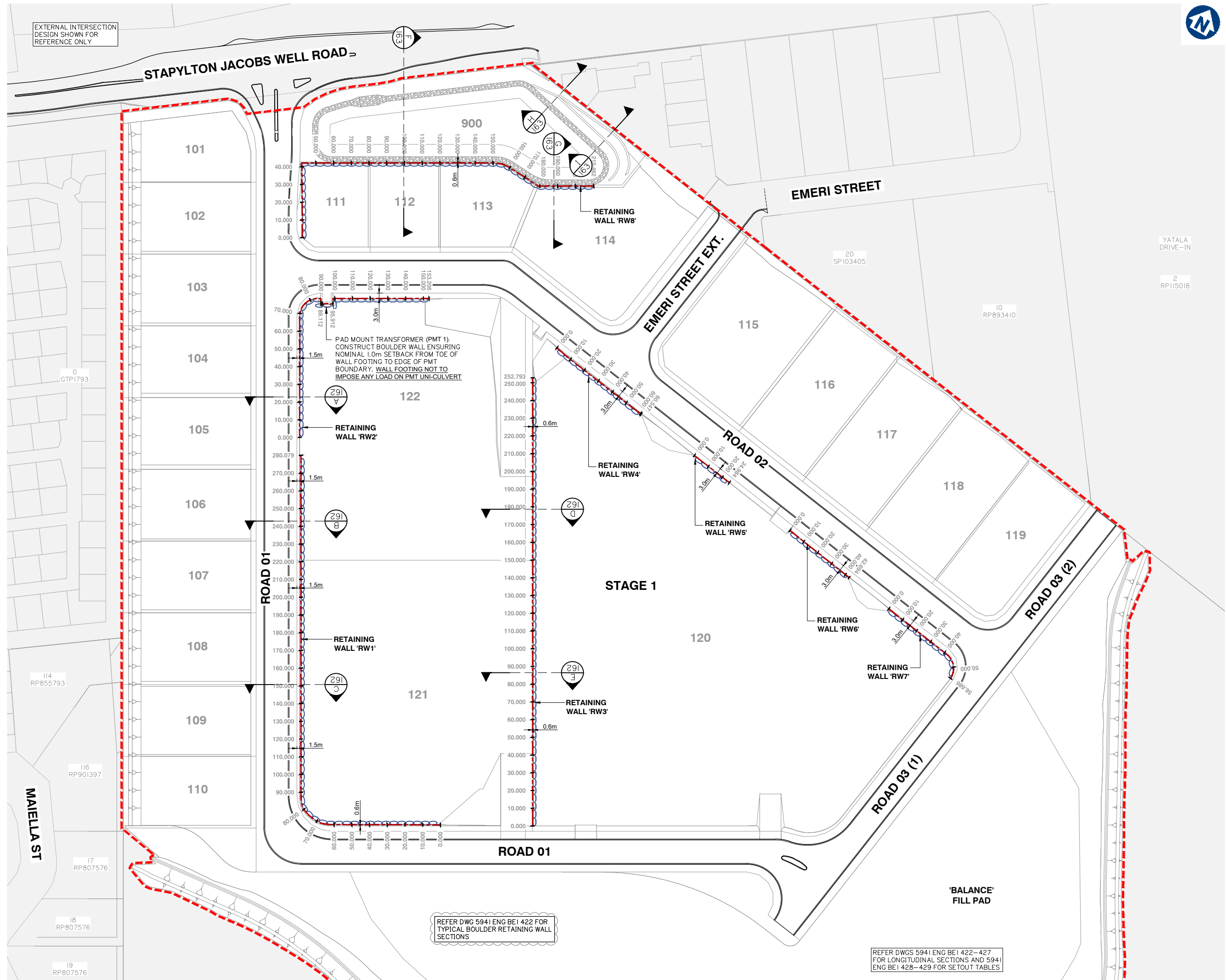
A vertical scale bar with a total length of 4 units. It is divided into 8 equal segments by 9 horizontal tick marks. The segments are numbered 0, 0.5, 1, 1.5, 2, 2.5, 3, 3.5, and 4.

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

Drawing No: 041 ENG BE1 420 Rev. N B



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



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

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

BOULDER RETAINING WALL CONTROL LINE LAYOUT PLAN



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Project: M38 INDUSTRIAL
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DRAWING TITLE
BOULDER RETAINING
WALL CONTROL LINE
LAYOUT PLAN

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

SCALE IN METRES



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

Scale at A1: 1:1000

Designed:	IG
Drafted:	JRG
Approved:	MG
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5941 ENG BE1 421

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Site Address:
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 DSM: -
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DRAWING TITLE
BOULDER RETAINING
WALL LONGITUDINAL
SECTION SHEET 2 OF 6

SCALE IN METRES



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

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

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

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

A cross-sectional diagram of a gravity retaining wall. The wall is represented by a vertical line on the left. The area to the right of the wall is labeled 'RETAINED SOIL' and is filled with a stippled pattern. Several large, irregularly shaped boulders are shown embedded in the soil. A dashed line indicates the failure surface or the nominal back face of the wall. Labels with leader lines point to various parts of the diagram: 'NOMINAL FACE OF WALL' points to the vertical wall face; 'NOMINAL BACK FACE OF WALL' points to the dashed line; 'RETAINED SOIL' points to the stippled area; and 'PROVIDE ADDITIONAL BOULDER TO REINFORCE CORNER' points to a boulder located near the bottom corner of the wall.

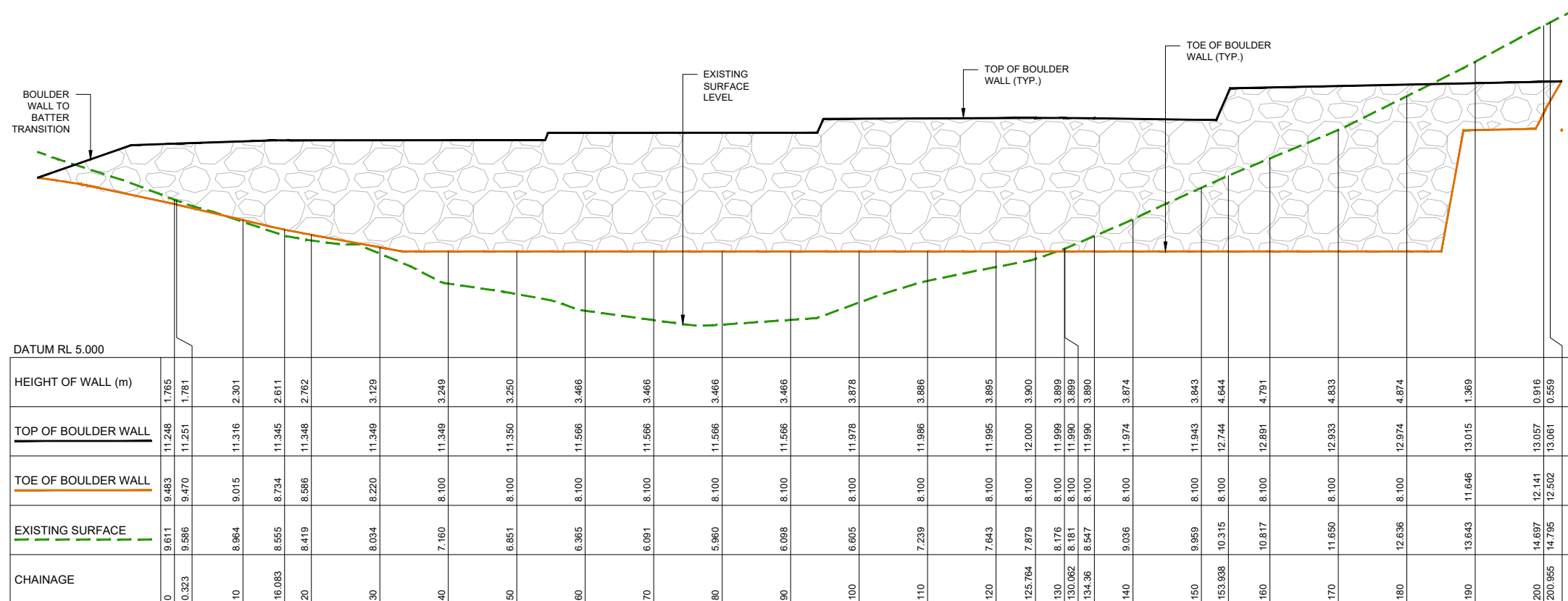
The diagram illustrates a cross-section of a road embankment. The existing surface level is shown as a dashed green line. The top of the boulder wall is marked as 'TOP OF BOULDER WALL (TYP.)'. The toe of the boulder wall is marked as 'TOE OF BOULDER WALL (TYP.)'. A proposed additional wall for a pad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

Stationing	Existing Surface Level (m)	Top of Boulder Wall (m)	Toe of Boulder Wall (m)	Additional Wall Required (m)	Pad Mount Transformer (PMT 1) (m)	Ground Level (m)
0	19.749	16.593	16.000	0.007		
10	18.930	16.023	16.600	0.578		
20	18.170	15.463	16.600	1.137		
30	17.372	14.863	16.600	1.737		
40	16.514	14.263	16.600	2.337		
50	15.727	13.663	16.600	2.937		
60	14.935	13.063	16.600	3.537		
68.931	14.250	12.534	16.600	4.066		
70	14.175	12.460	16.600	4.140		
80	13.415	11.653	16.600	4.948		
85.107	13.401	11.606	16.600	4.994		
86.113	13.402	10.893	16.600	5.707		
89.112	13.605	10.923	16.600	5.677		
90	13.606	10.932	16.600	5.668		
95.912	13.322	10.991	16.600	5.609		
98.911	13.117	10.951	16.600	5.650		
100	13.061	11.665	16.600	4.936		
110	12.543	11.735	16.600	4.866		
120	12.032	11.805	16.600	4.795		
130	11.530	11.875	16.600	4.725		
130.105	11.525	11.876	16.600	4.725		
134.105	11.325	11.904	16.600	4.696		
137.105	11.174	11.921	16.600	4.679		
140	11.029	11.946	16.600	4.654		
144.105	10.582	11.988	16.600	4.612		
147.105	10.207	12.029	16.600	4.572		
149.105	9.956	12.055	16.600	4.545		
150	9.844	12.066	16.600	4.534		
150.987	9.721	12.077	16.600	4.523		
153.206	9.616	12.110	15.631	3.321		

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

BOULDER RETAINING WALL LONGITUDINAL SECTION SHEET 2 OF 6

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"
IP 2	40.000	2226.658	6994.136	8.908	330°44'33.22"
	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"
IP 3	150.000	2320.021	7048.256	8.100	61°00'47.00"
	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	
	160.000	2329.596	7050.555	8.100	93°57'36.78"
	170.000	2339.572	7049.865	8.100	93°57'36.78"
IP 6	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"
IP 7	210.462	2376.093	7064.390	8.100	61°00'47.00"



RETAINING WALL 'RW8' - LONGITUDINAL SECTION

A1 HORZ SCALE 1:400
A1 VERT SCALE 1:80

MAXIMUM HEIGHT OF WALL: 4.874 m



Client:



Project: M38 INDUSTRIAL
PARK YATALA

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

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
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DRAWING TITLE
BOULDER RETAINING
WALL LONGITUDINAL
SECTION SHEET 6 OF 6

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

SCALE IN METRES



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:	Rev. No:
5941 ENG BE1 427	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"			



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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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Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
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DRAWING TITLE
BOULDER RETAINING
WALL SETOUT TABLES
SHEET 1 OF 1

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

NOT APPLICABLE

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



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

Client:



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Local Authority: CITY OF GOLD COAST
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DRAWING TITLE
ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 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 IN METRES

Scale 1:100 - Lengths are in Metres.

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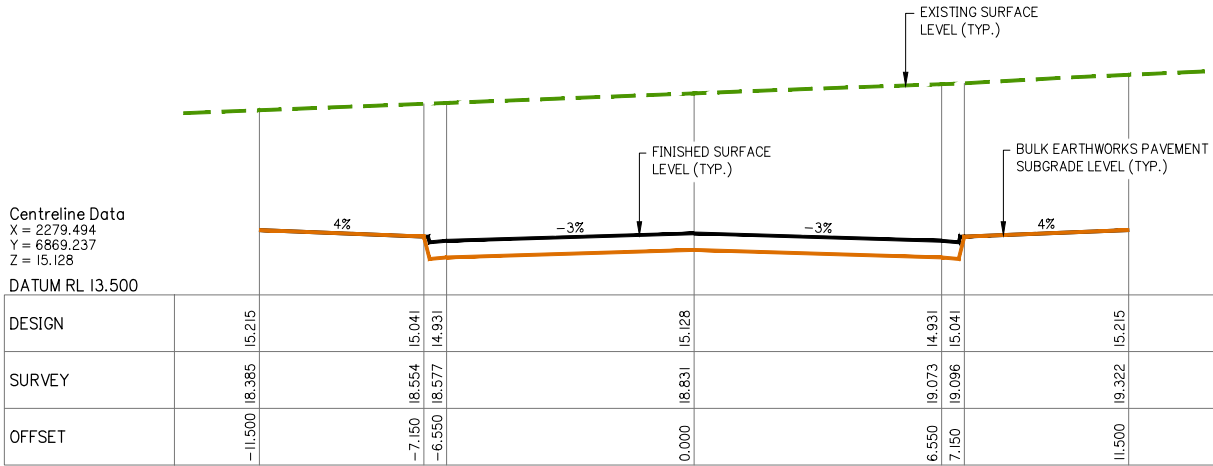
VERT: 

Scale at A1: AS SHOWN

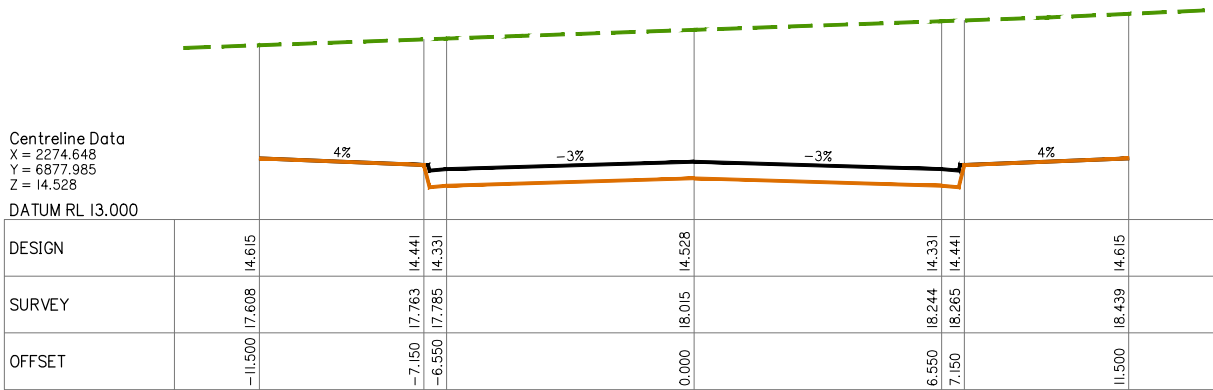
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 430

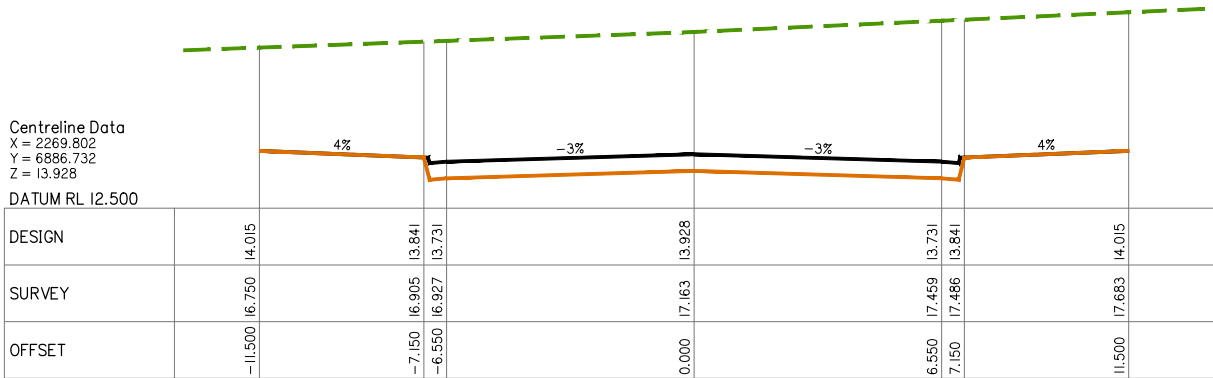
Rev. No:
B



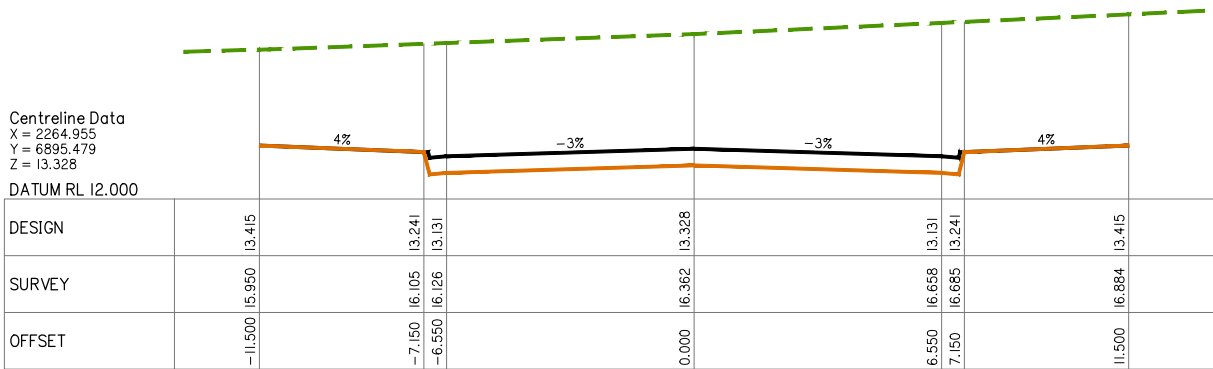
CHAINAGE 190



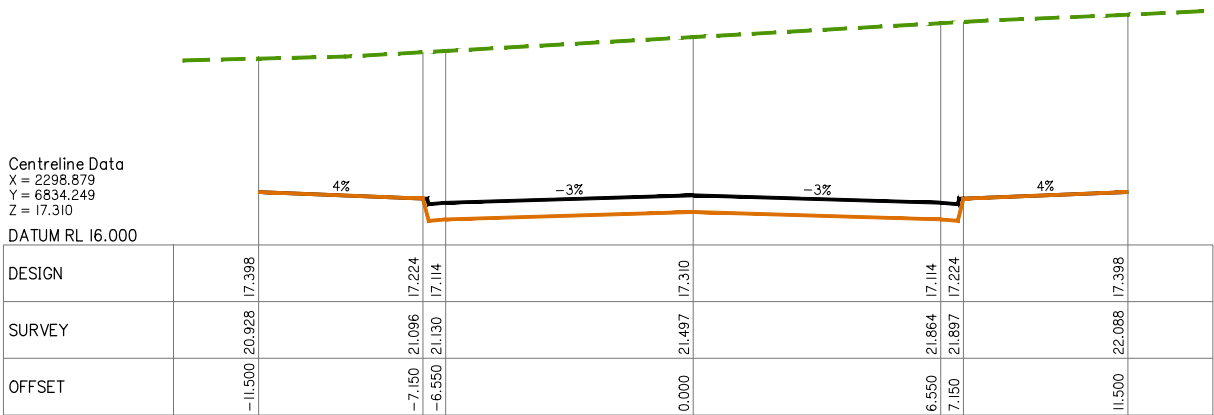
CHAINAGE 180



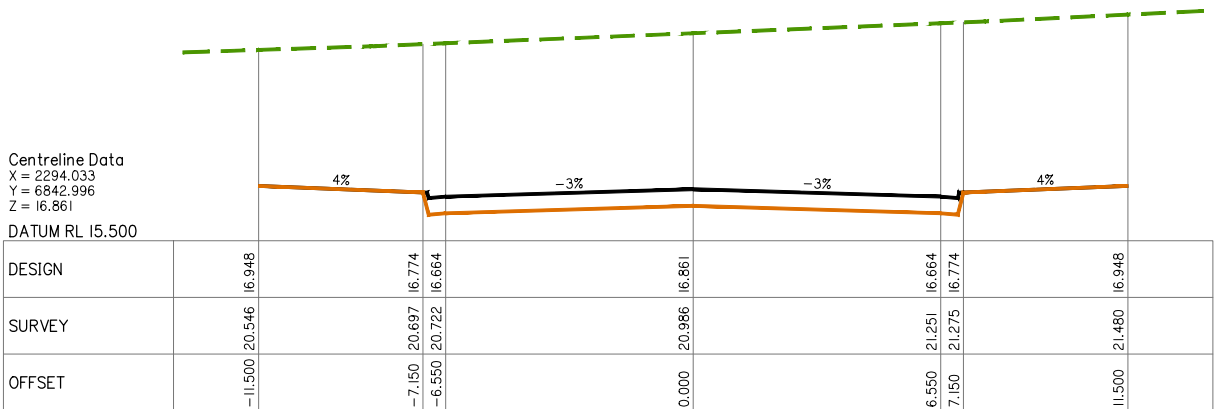
CHAINAGE 170



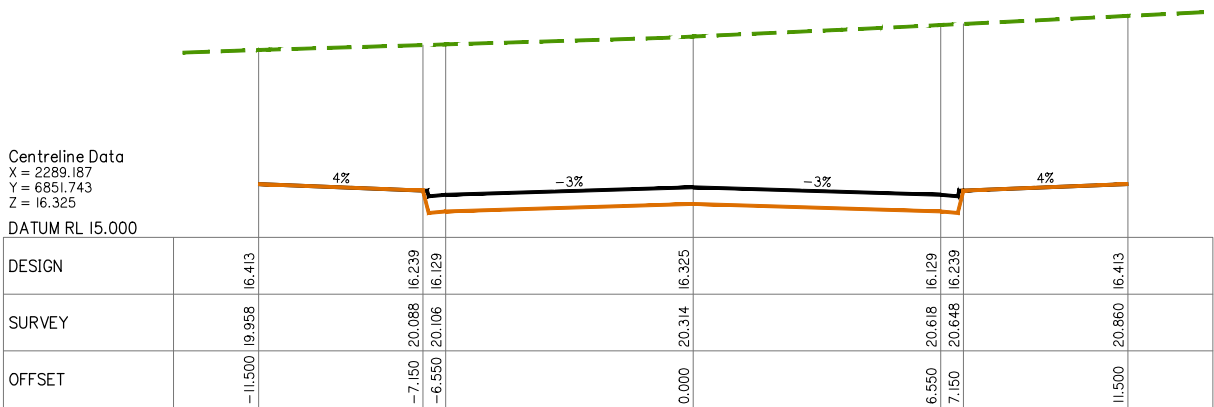
CHAINAGE 160



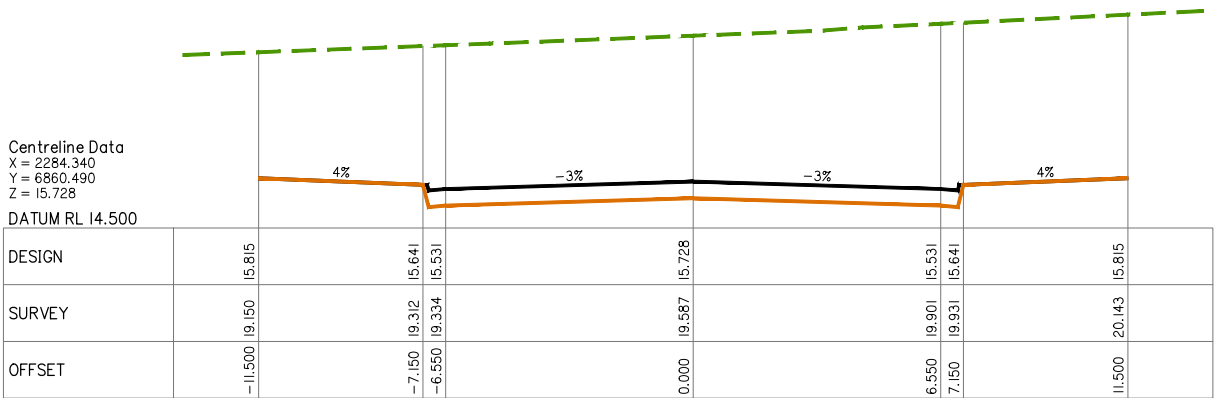
CHAINAGE 230



CHAINAGE 220



CHAINAGE 210



CHAINAGE 200

ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 3 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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ROAD & 31 YELLOWWOOD
ROAD, STAPYLTON QLD 4207

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

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

SCALE 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
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RPEQ:	16939
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Local Authority: CITY OF GOLD COAST
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DRAWING TITLE
ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 5 OF 11

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

Scale 1:100 - Lengths are in Metres.

HOZ:

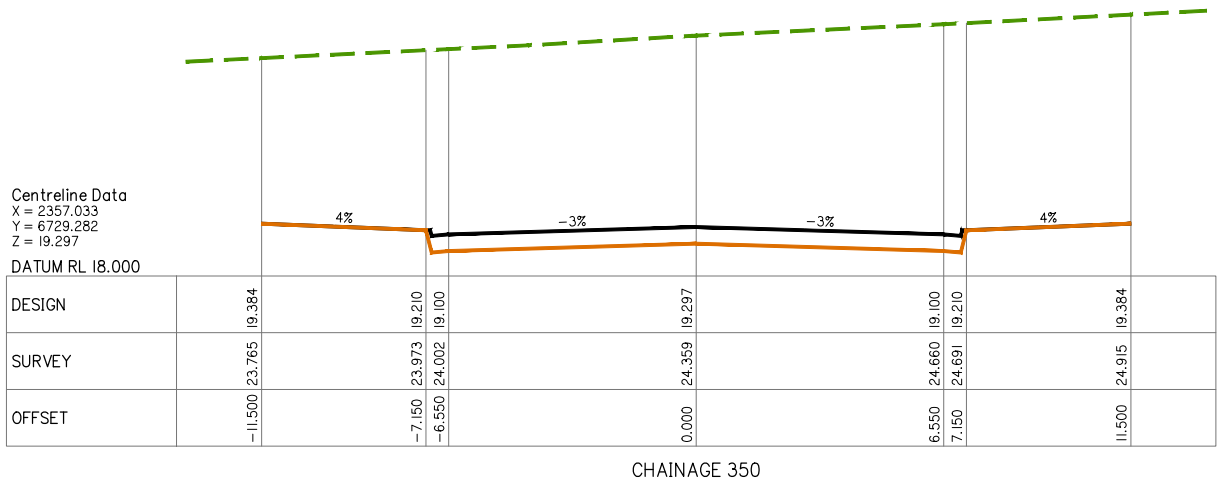
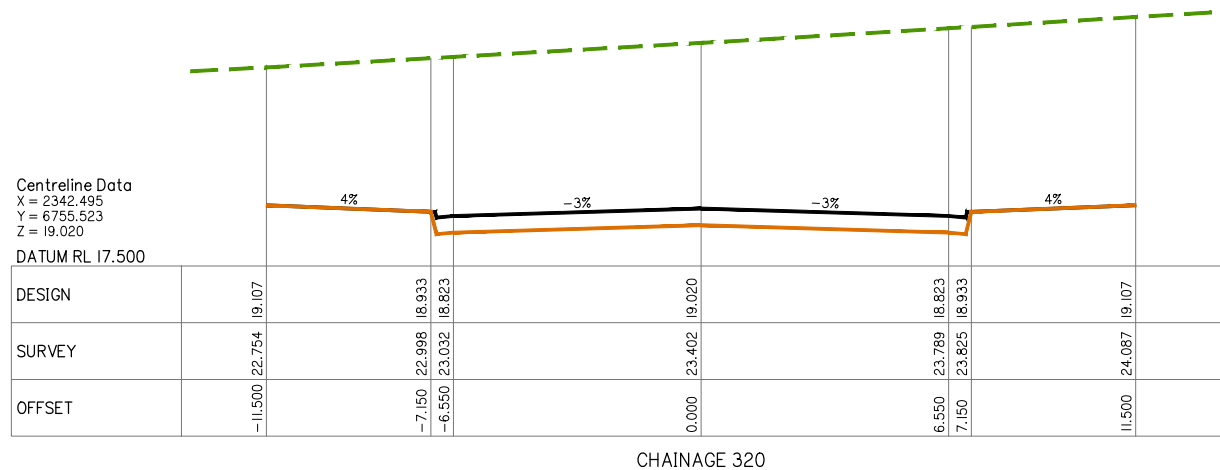
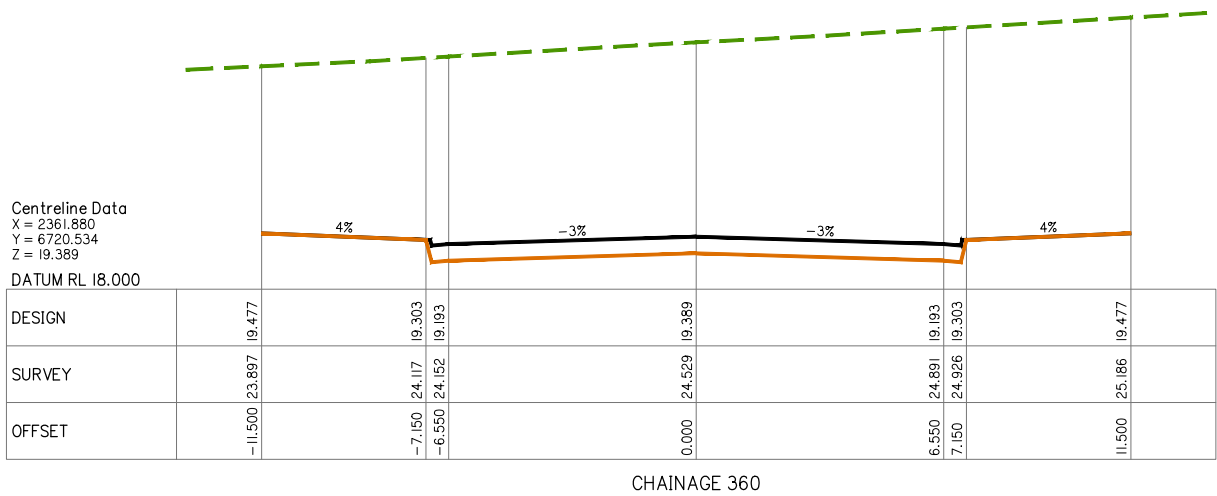
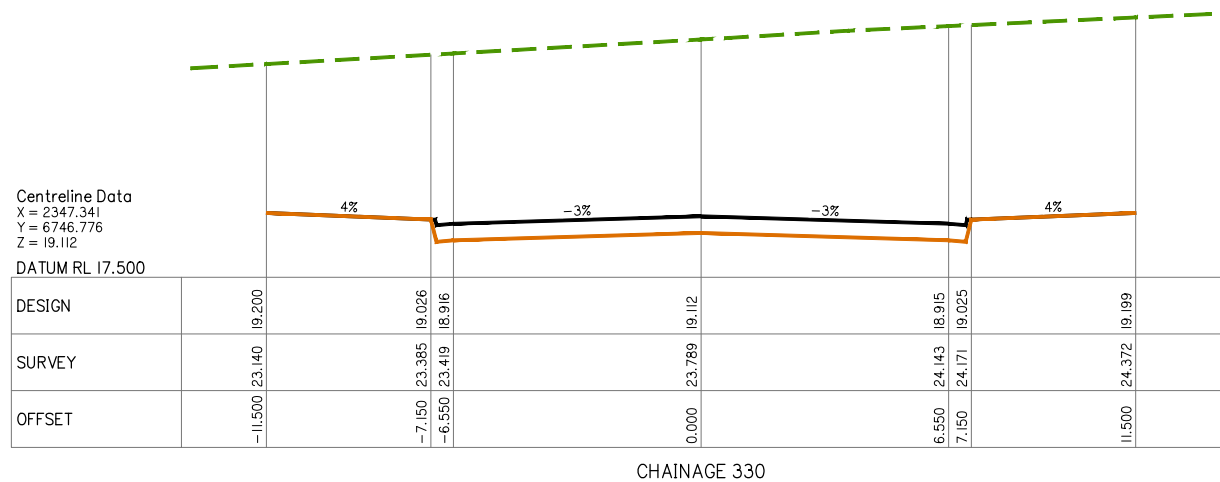
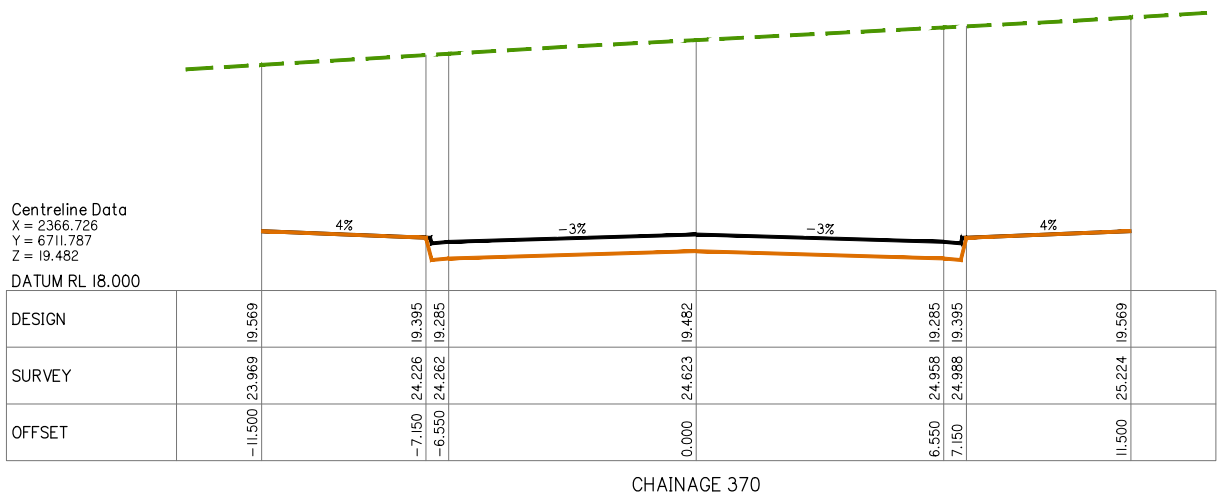
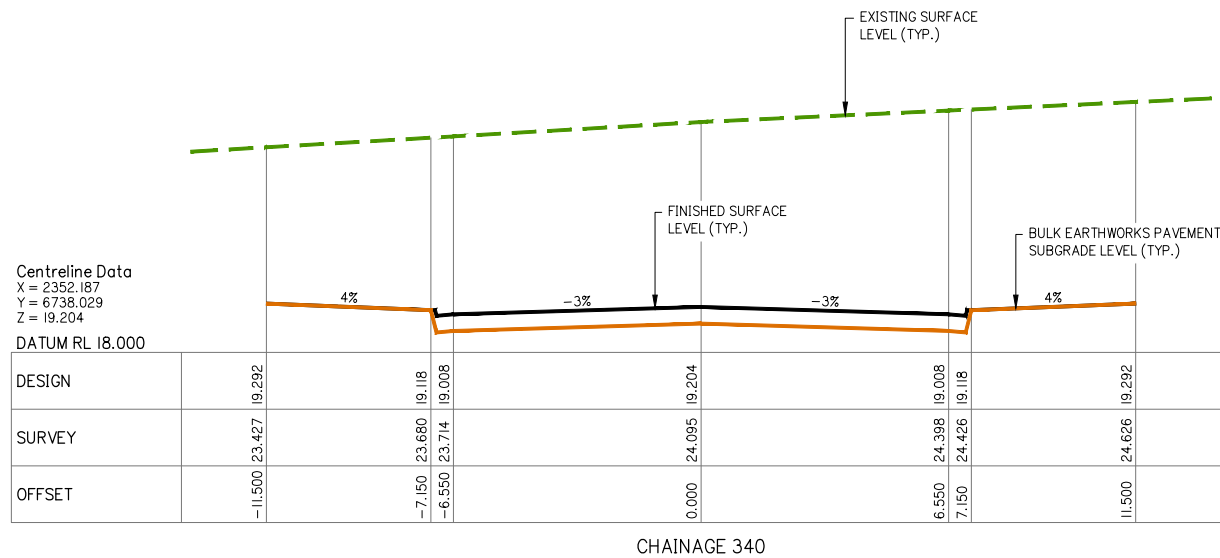
Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

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ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 11

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



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ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 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 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

VERT:

Scale at A1: AS SHOWN

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	20-02-2020
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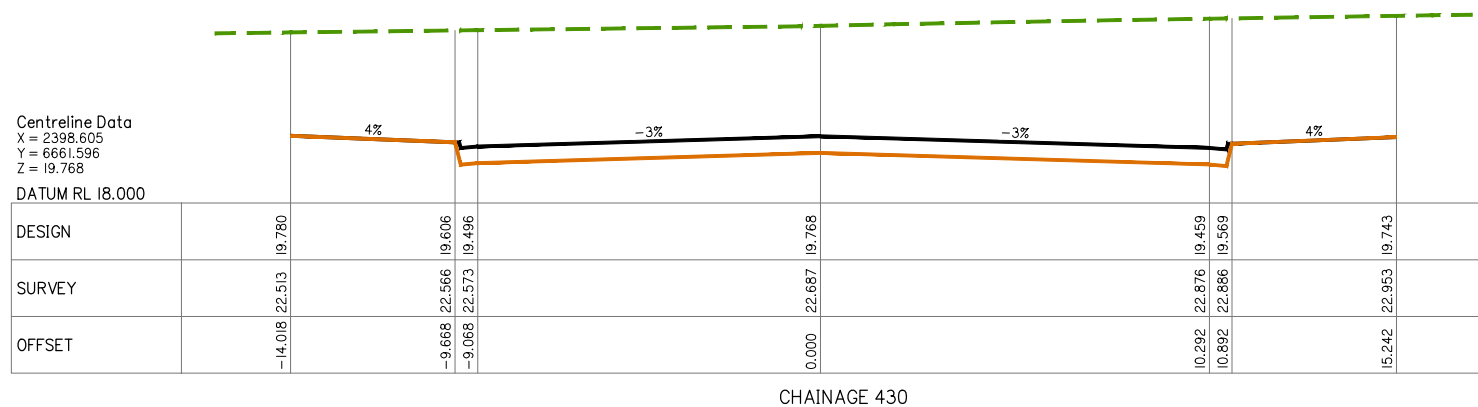
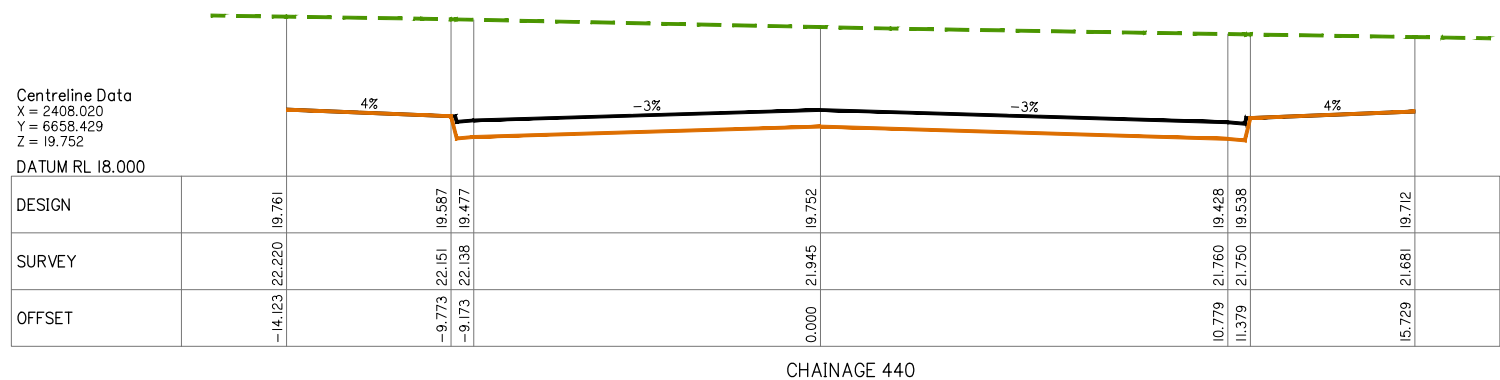
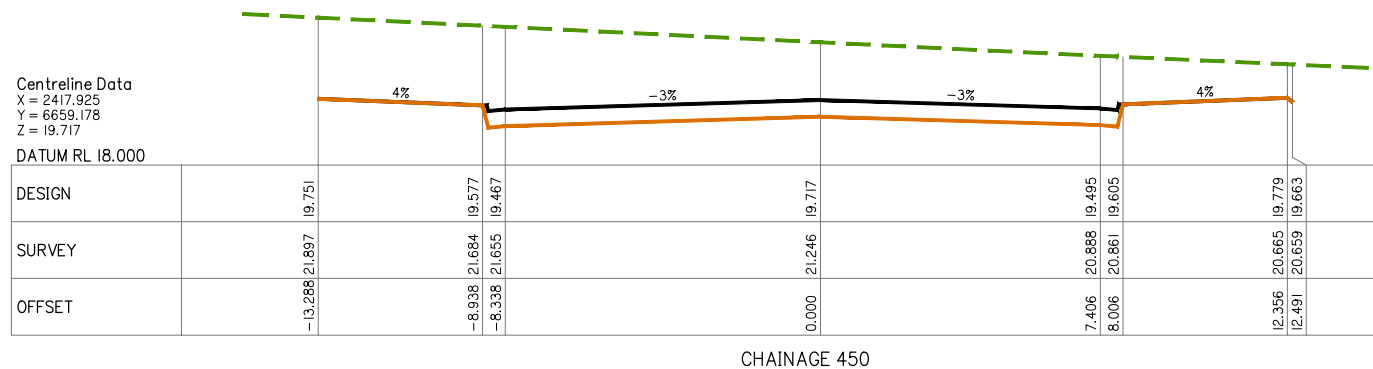
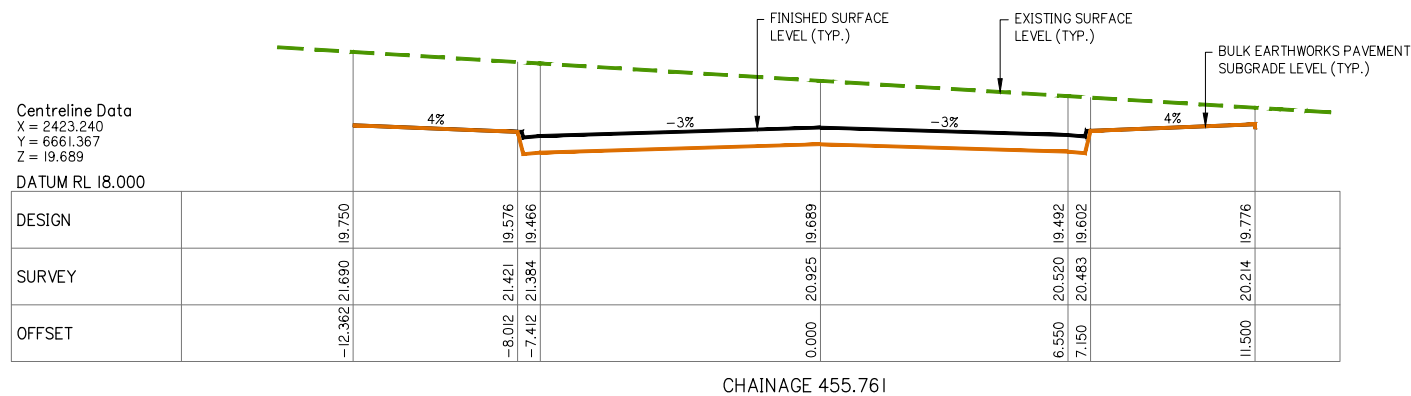
Drawing No:
5941 ENG BE1 435

Rev. No:
B



ROAD 01 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11

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



Client:



Project: M38 INDUSTRIAL
PARK YATALA

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

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

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ:

VERT: 

Scale at A1: AS SHOWN

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DRAWING TITLE
ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 8 OF 11

[illegible]

SCALE IN METRES

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

Scale at A1: AS SHOWN

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5941 ENG BE1 437	B



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DRAWING TITLE
ROAD 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 10 OF 1

[illegible]

SCALE IN METRES

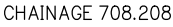
HOZ:  Scale 1:100 - Lengths are in Metres.

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

Scale at A1: AS SHOWN

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

Drawing No: 5941 ENG BE1 439 Rev. M B



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



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 01 BULK
EARTHWORKS CROSS
SECTIONS SHEET 11 OF 11

[illegible]

SCALE IN METRES

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

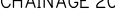
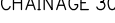
VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
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[illegible]

SCALE IN METRES

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

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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

Centreline Data
X = 2456.229
Y = 6980.295
Z = 15.372

DATUM RL 14.000

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

CHAINAGE 230

Centreline Data
X = 2446.458
Y = 6982.517
Z = 15.087

DATUM RL 13.500

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

CHAINAGE 220

Centreline Data
X = 2436.588
Y = 6984.120
Z = 14.787

DATUM RL 13.500

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

CHAINAGE 210

Centreline Data
X = 2485.942
Y = 6976.107
Z = 16.330

DATUM RL 15.000

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

CHAINAGE 260

Centreline Data
X = 2476.071
Y = 6977.710
Z = 16.014

DATUM RL 14.500

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

CHAINAGE 250

Centreline Data
X = 2466.200
Y = 6979.312
Z = 15.699

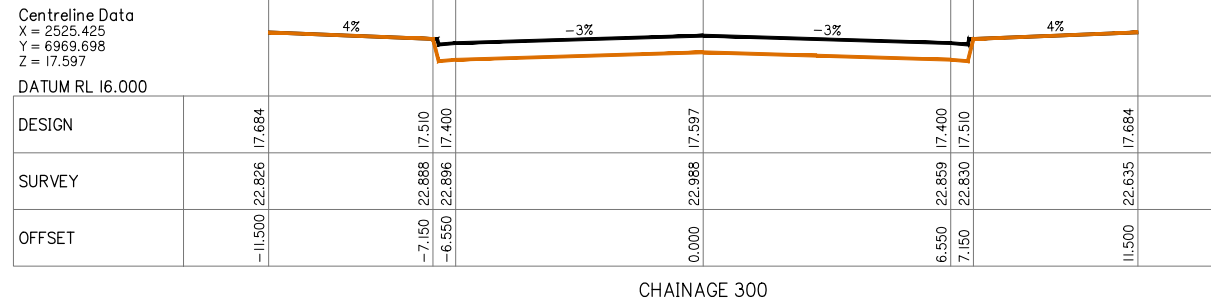
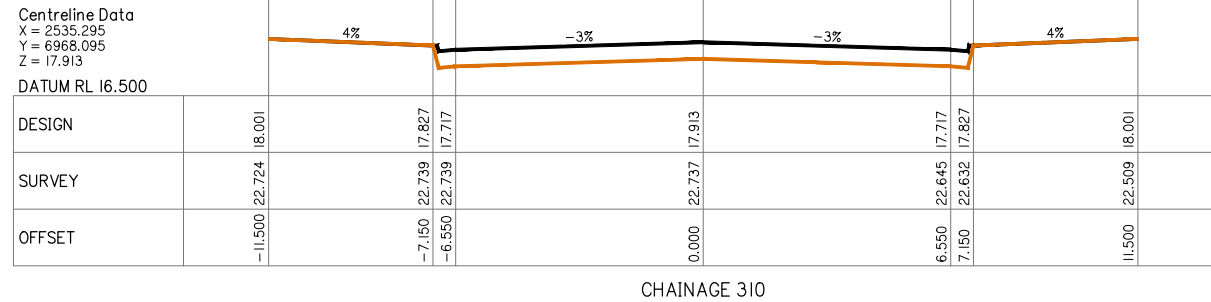
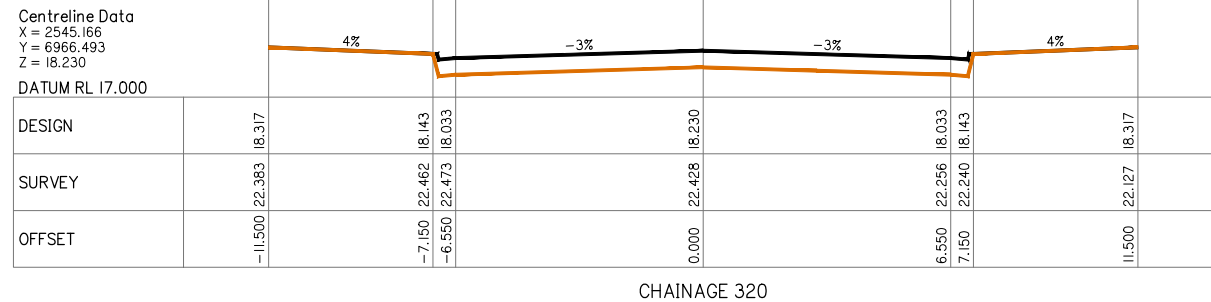
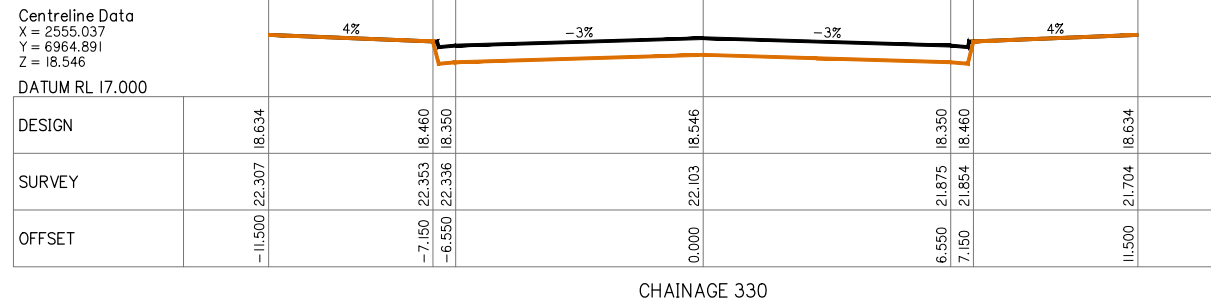
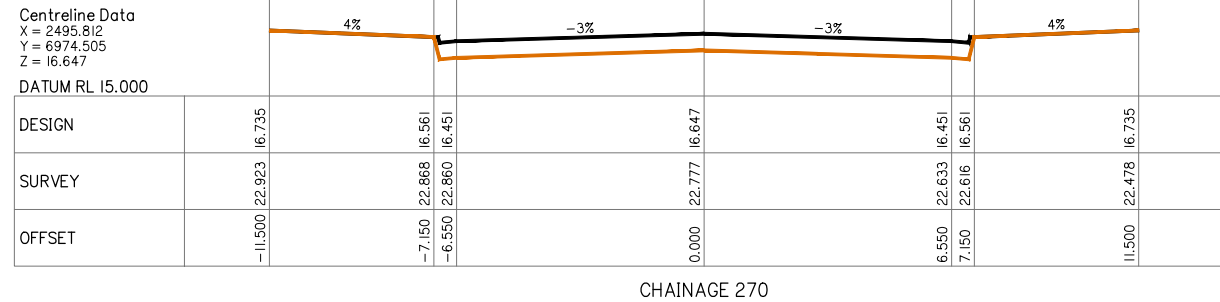
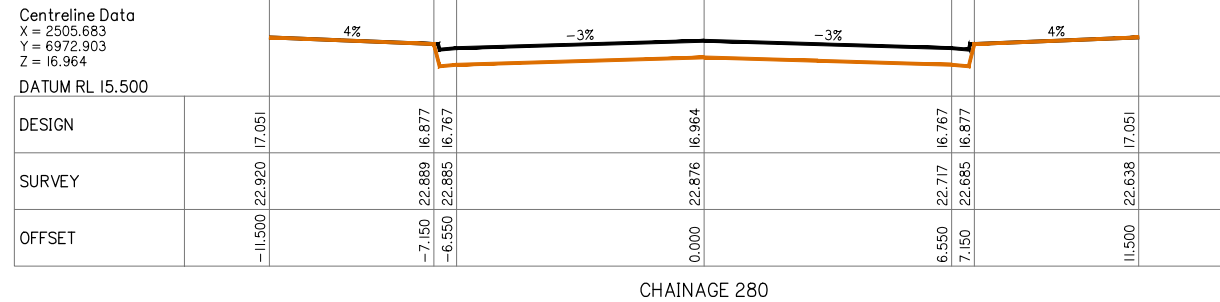
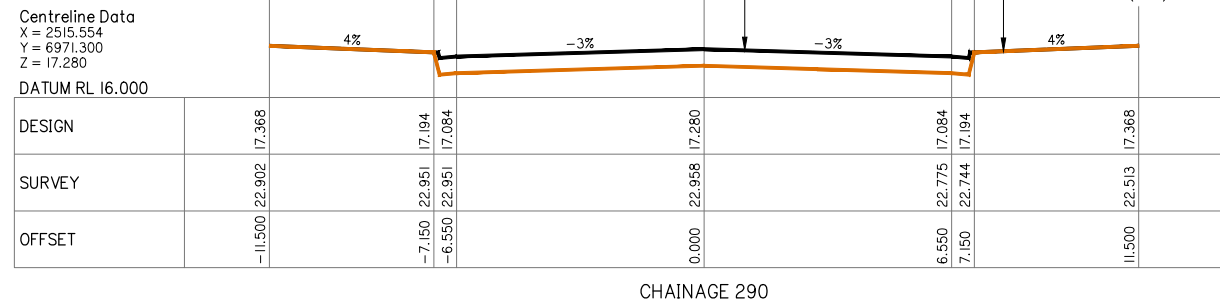
DATUM RL 14.500

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

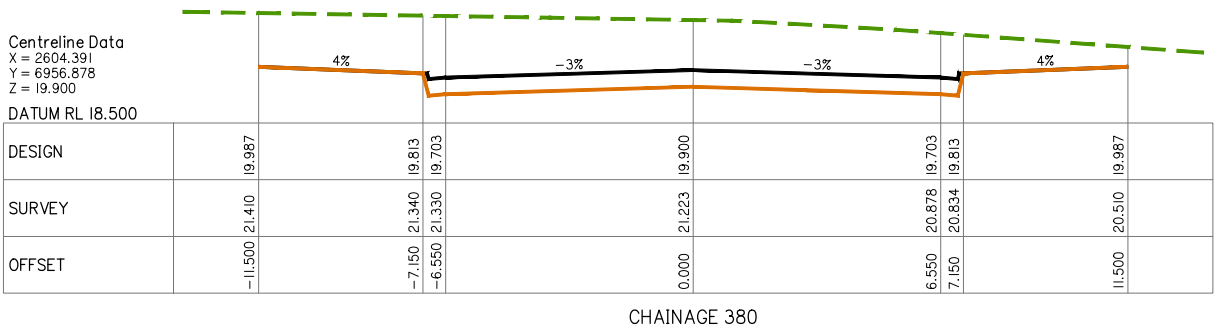
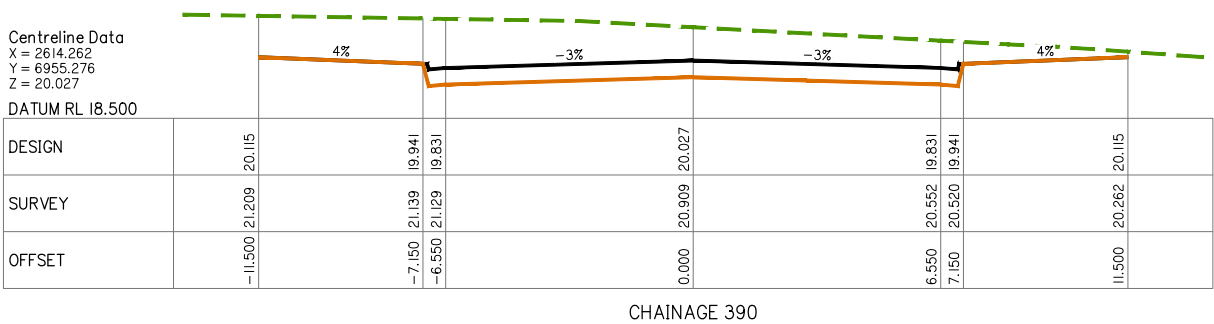
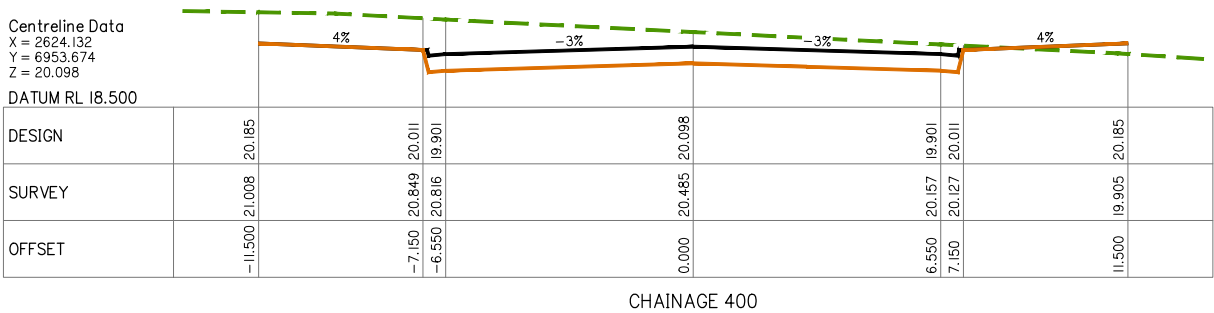
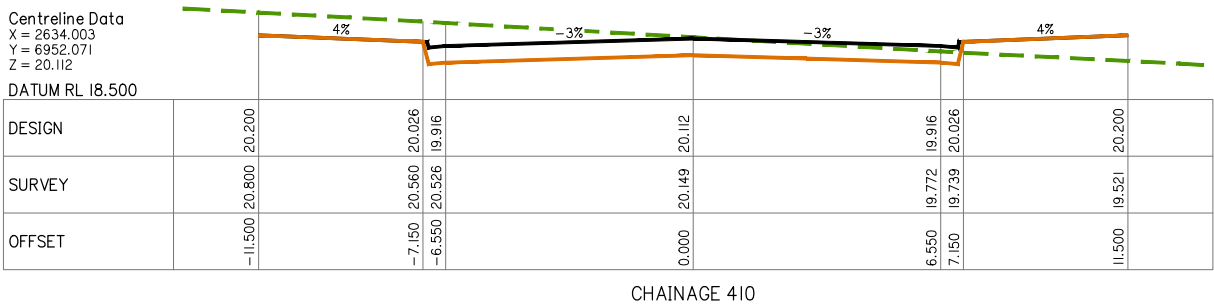
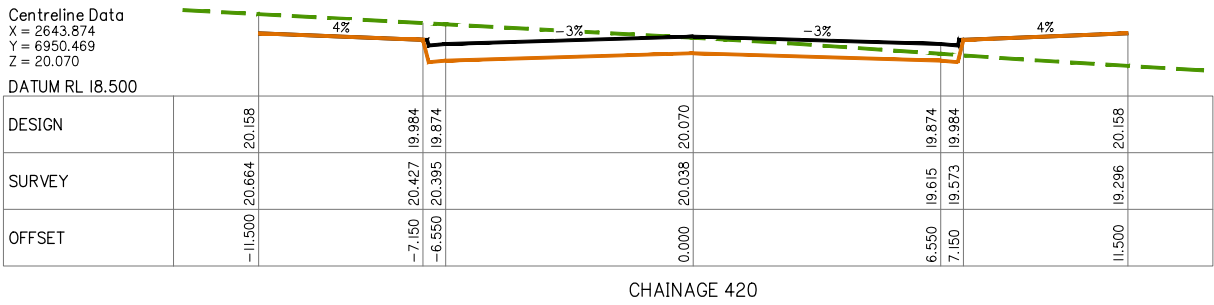
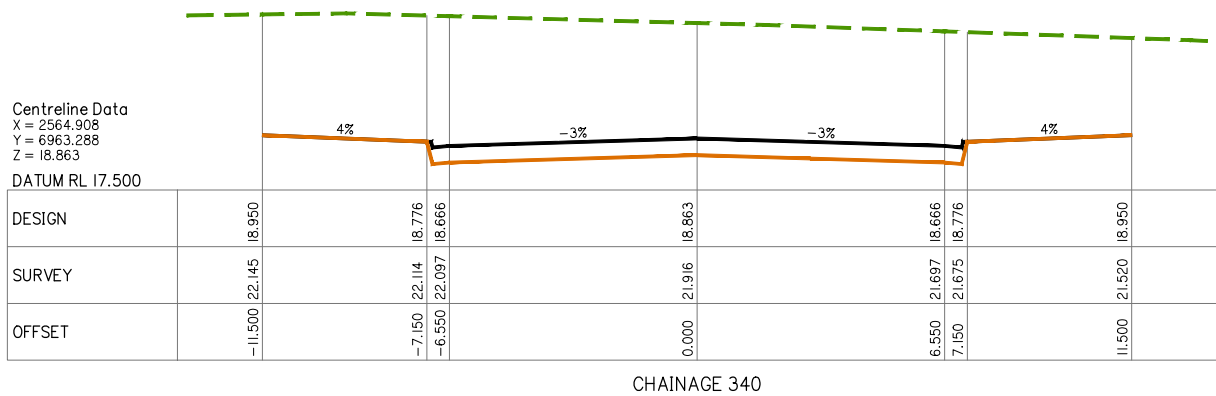
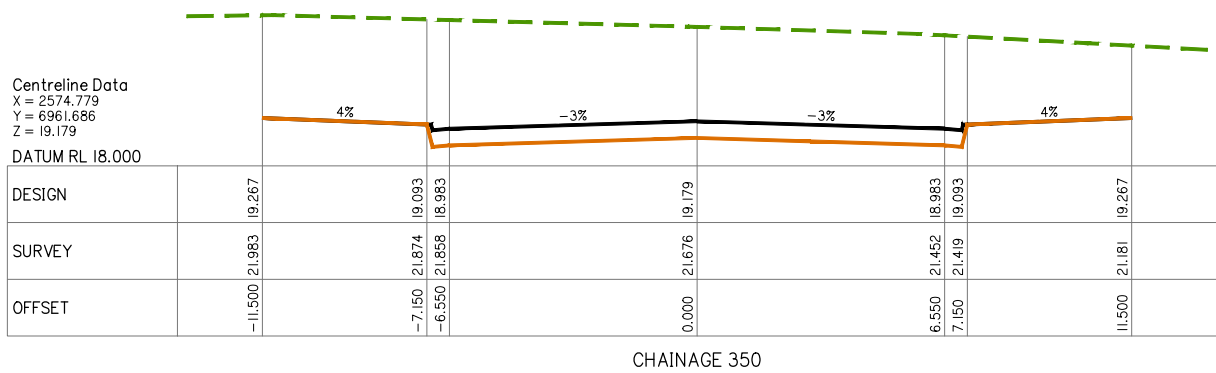
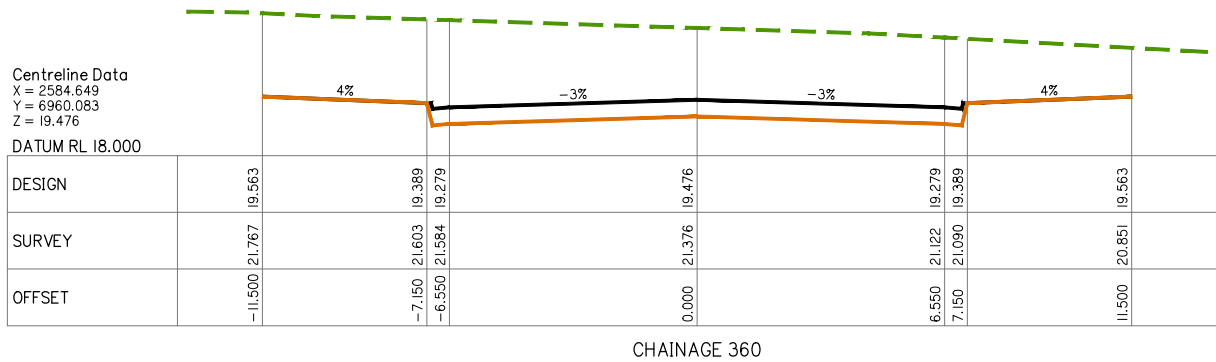
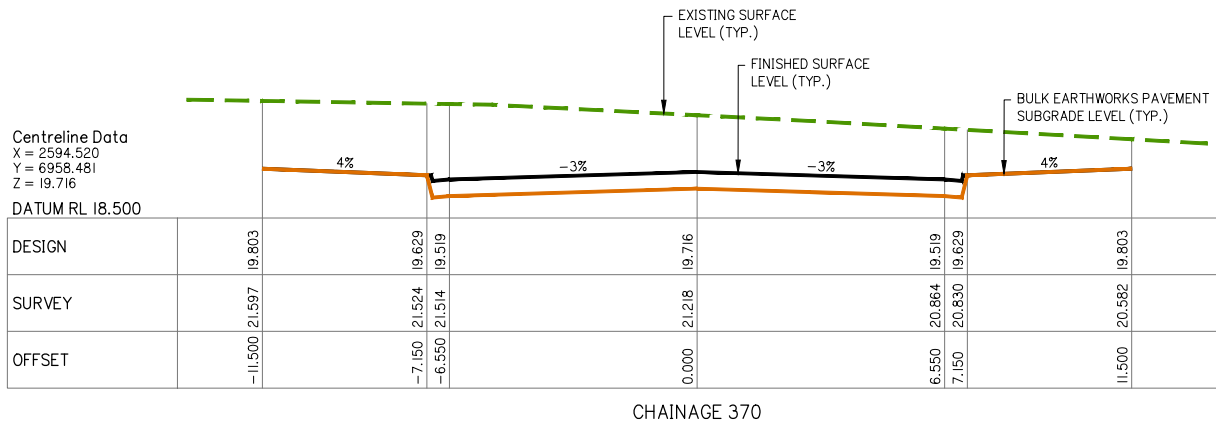
CHAINAGE 240

ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 6

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



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



ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 5 OF 6

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



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Client:



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Project: M38 INDUSTRIAL
PARK YATALA

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

THIS DRAWING IS INTENDED TO
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RPD:

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

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DRAWING TITLE
ROAD 02 BULK
EARTHWORKS CROSS
SECTIONS SHEET 5 OF 6

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

SCALE IN METRES

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

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

Scale at A1: AS SHOWN

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

Drawing No: 5941 ENG BE1 445
Rev. No: B



Project: M38 INDUSTRIAL
PARK YATALA

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

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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
ROAD 02 BULK
EARTHWORKS CROSS
SECTIONS SHEET 6 OF 6

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

Scale 1:100 - Lengths are in Metres.

HOZ:

VERT: 

Scale at A1: AS SHOWN

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

Drawing No:	Rev. No:
5941 ENG BE1 446	B



ROAD 02 BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 6

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

Client:



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PARK YATALA

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RPD:

Lot: 501, 4
Plan: SP295994, RP6843
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
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DRAWING TITLE
ROAD 03 (1) BULK
EARTHWORKS CROSS
SECTIONS SHEET 1 OF 3

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

SCALE IN METRES

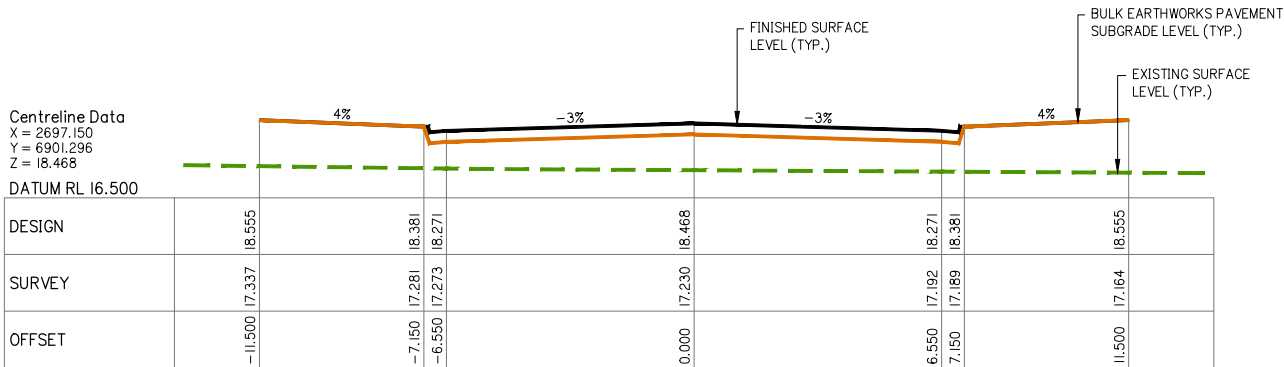
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HOZ: 0 1 2 3 4 5 6 7 8

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

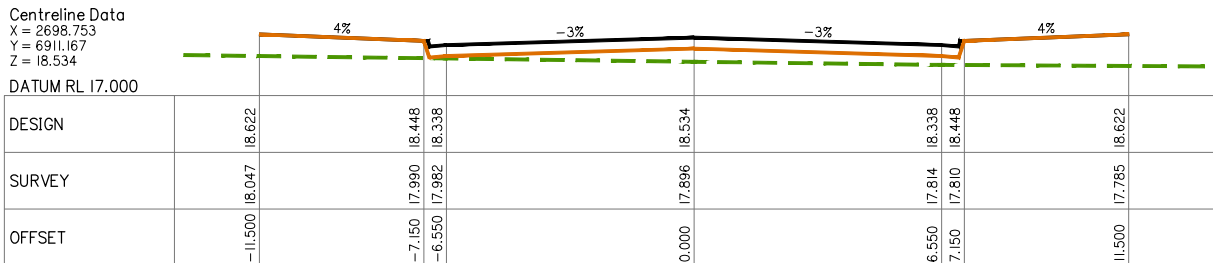
Scale at A1: AS SHOWN

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

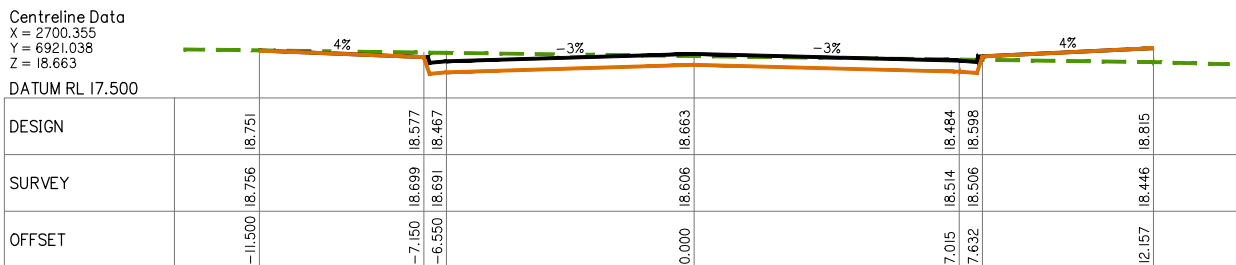
Drawing No: 5941 ENG BE1 447
Rev. No: B



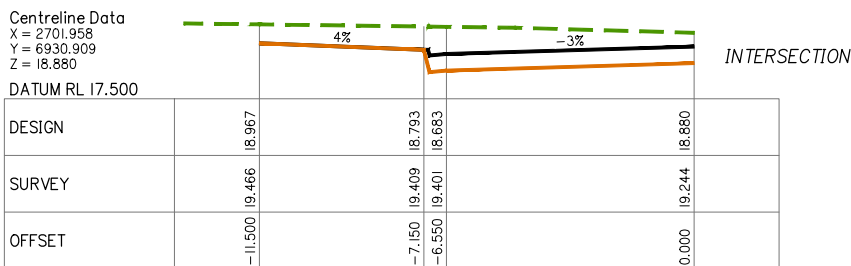
CHAINAGE 40



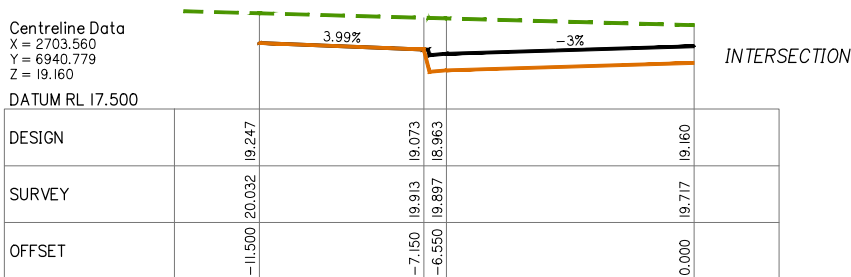
CHAINAGE 30



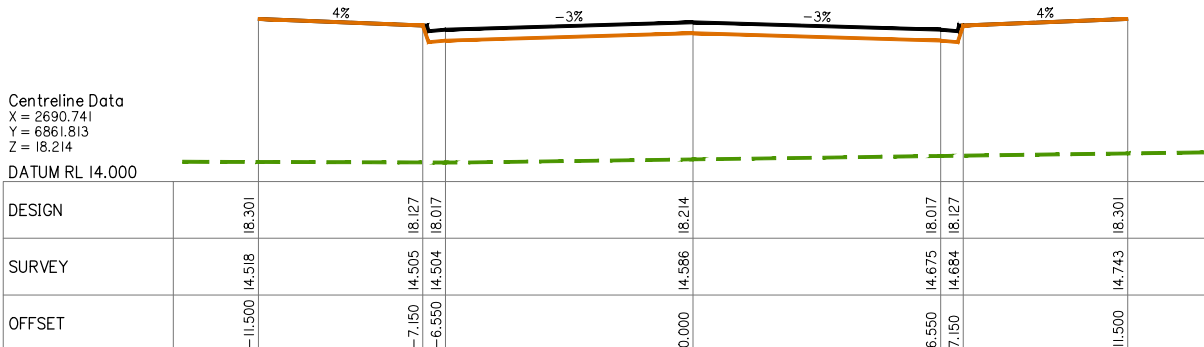
CHAINAGE 20



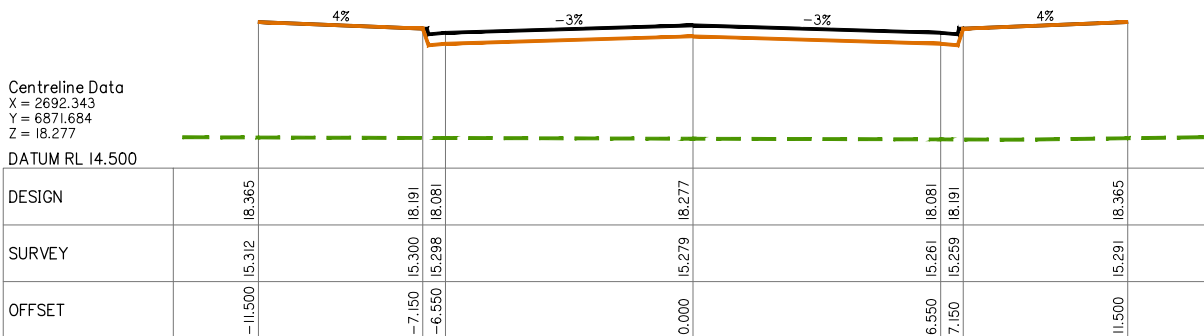
CHAINAGE 10



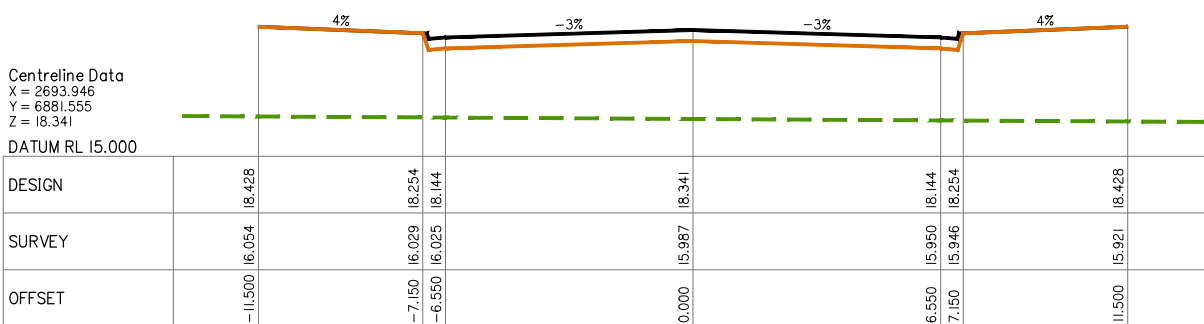
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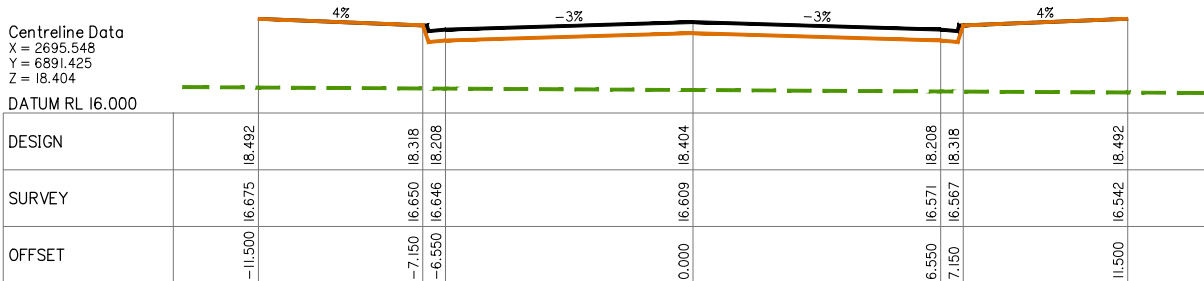
CHAINAGE 80



CHAINAGE 70



CHAINAGE 60



CHAINAGE 50

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

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



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Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

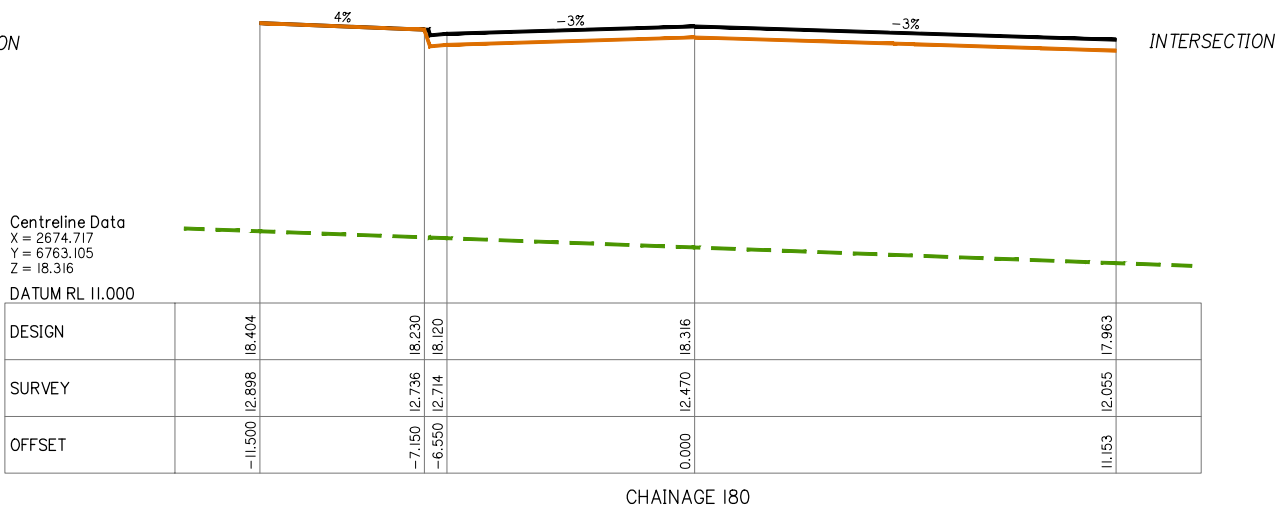
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Scale 1:100 - Lengths are in Metres.

HOZ: 

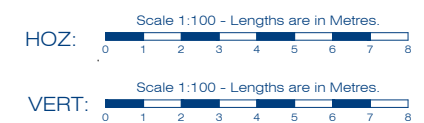
Drawing No:	Rev. No:
5941 ENG BE1 449	B



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



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



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

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

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
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Drafted:	JRG
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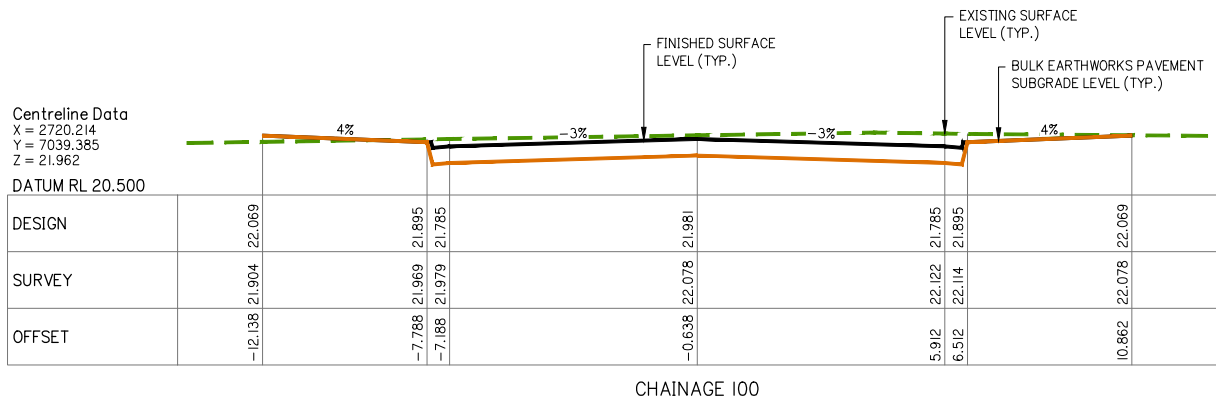
Approved:	MG
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RPEQ:	1693
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Signed:	
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Date:	20-02-2020
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ROAD 03 (2) BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 2

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



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

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

SCALE IN METRES

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HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT:

Scale at A1: AS SHOWN

Designed:	IG
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Drafted:	JRG
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Approved:	MG
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RPEQ:	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 452	B



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

[illegible]

Scale 1:100 - Lengths are in Metres.

HOZ:

VERT:

Scale at A1: AS SHOWN

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

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



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

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



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Project: M38 INDUSTRIAL
PARK YATALA

Site Address:
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ROAD, STAPYLTON QLD 4207

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Local Authority: CITY OF GOLD COAST
COUNCIL

Level Datum: AHD
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DRAWING TITLE

SWALE DRAIN A 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 454

Rev. No:
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SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 1 OF 11

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



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

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

Scale 1:100 - Lengths are in Metres.

HOZ:

Scale 1:100 - Lengths are in Metres.

VERT:

Scale at A1: AS SHOWN

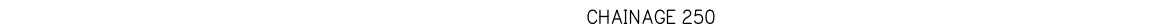
Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

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

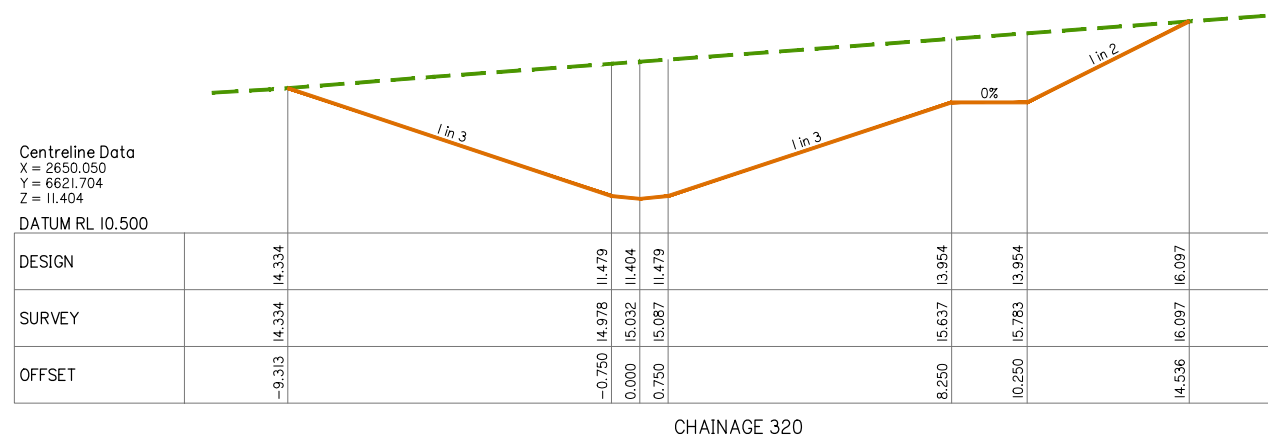
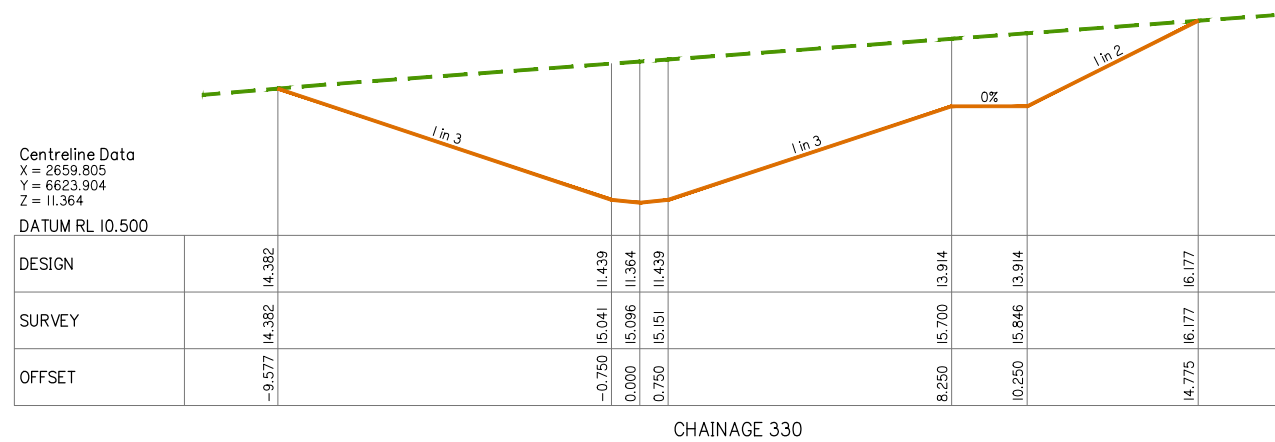
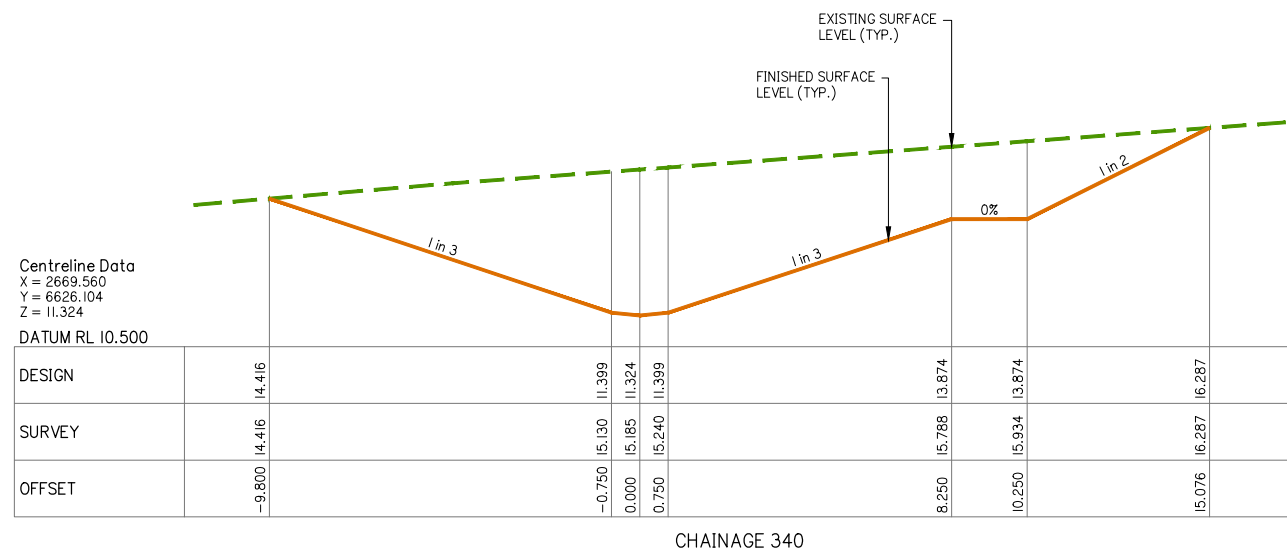


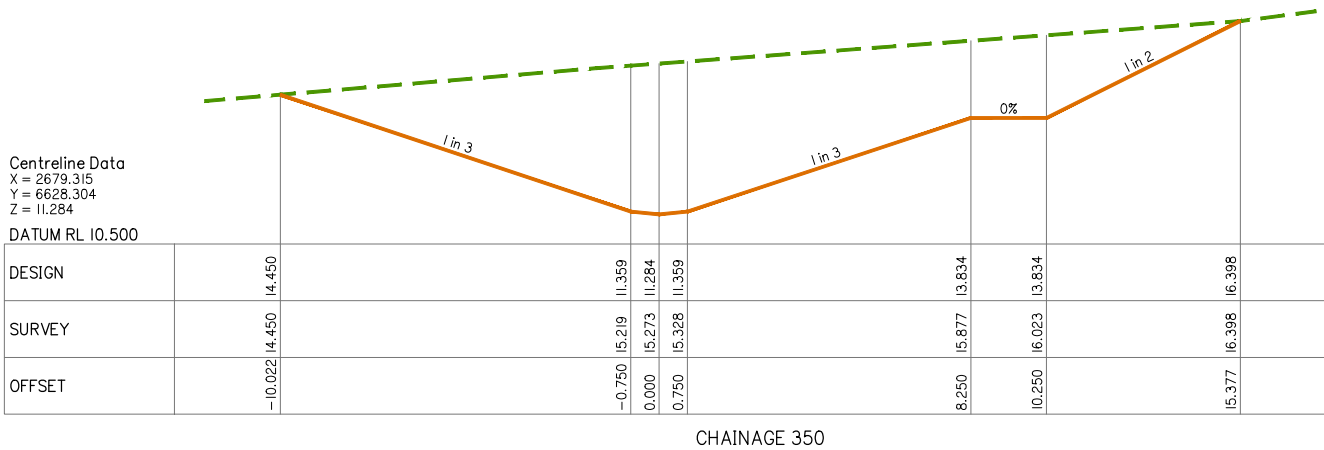
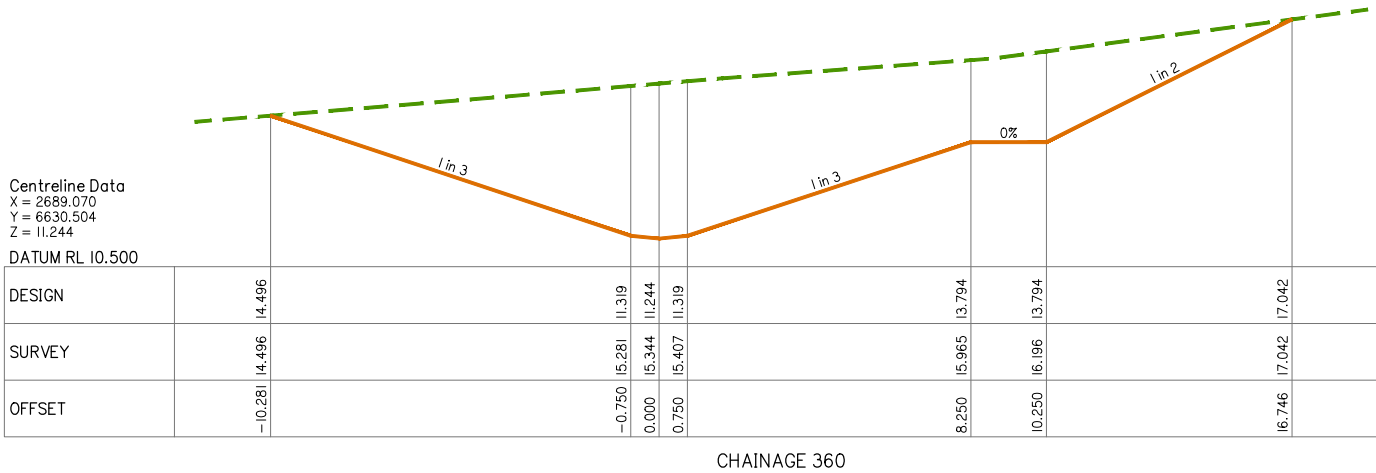
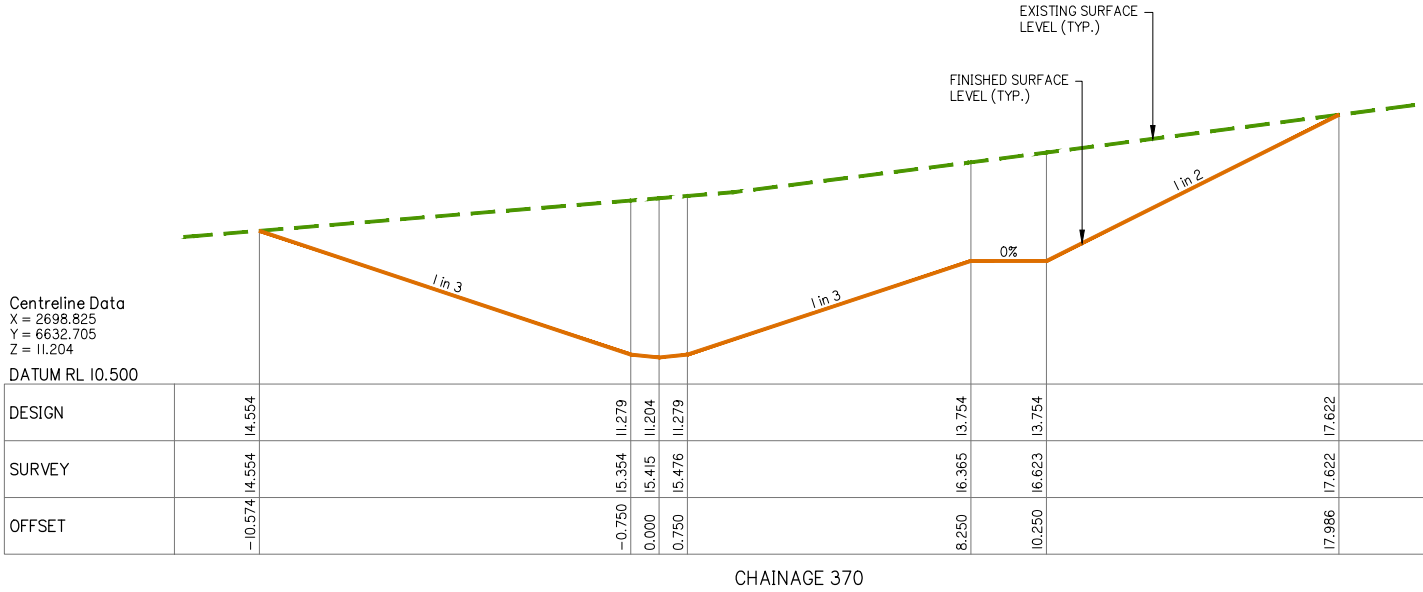
SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 11

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



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





SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 6 OF 11

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



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EARTHWORKS CROSS
SECTIONS SHEET 6 OF 11

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

SCALE IN METRES

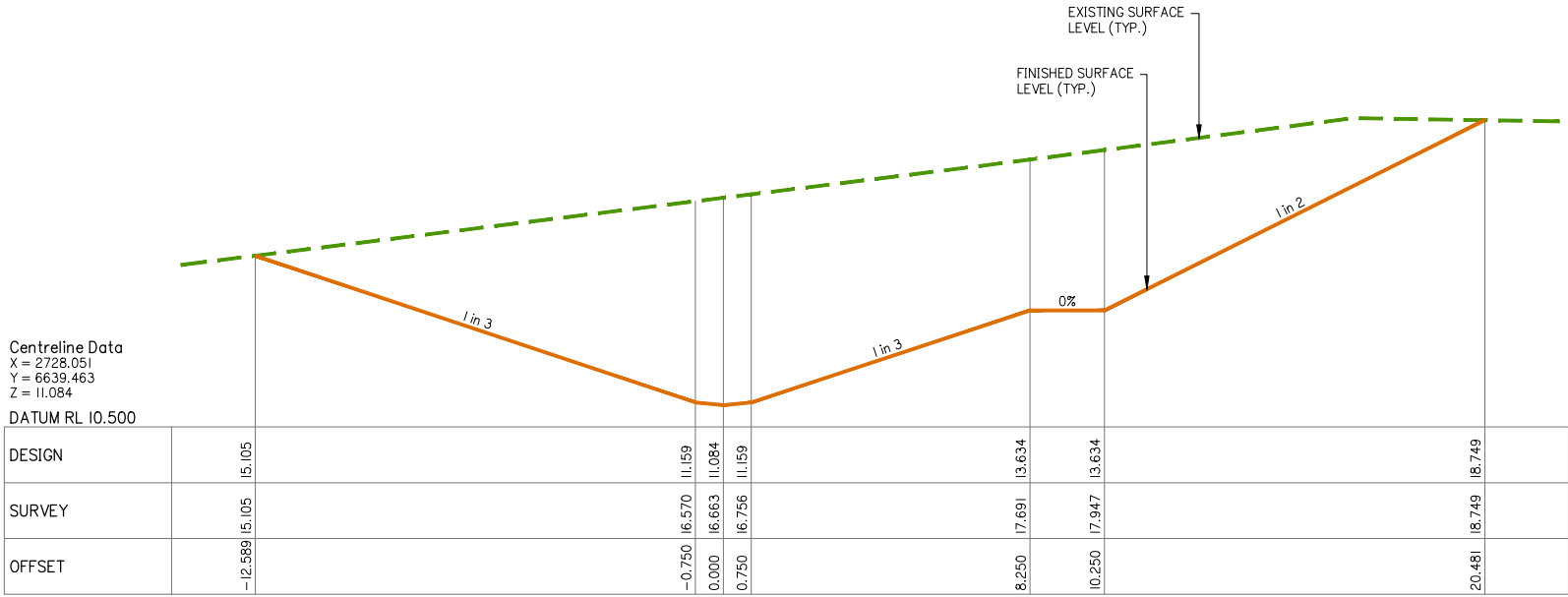
Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

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

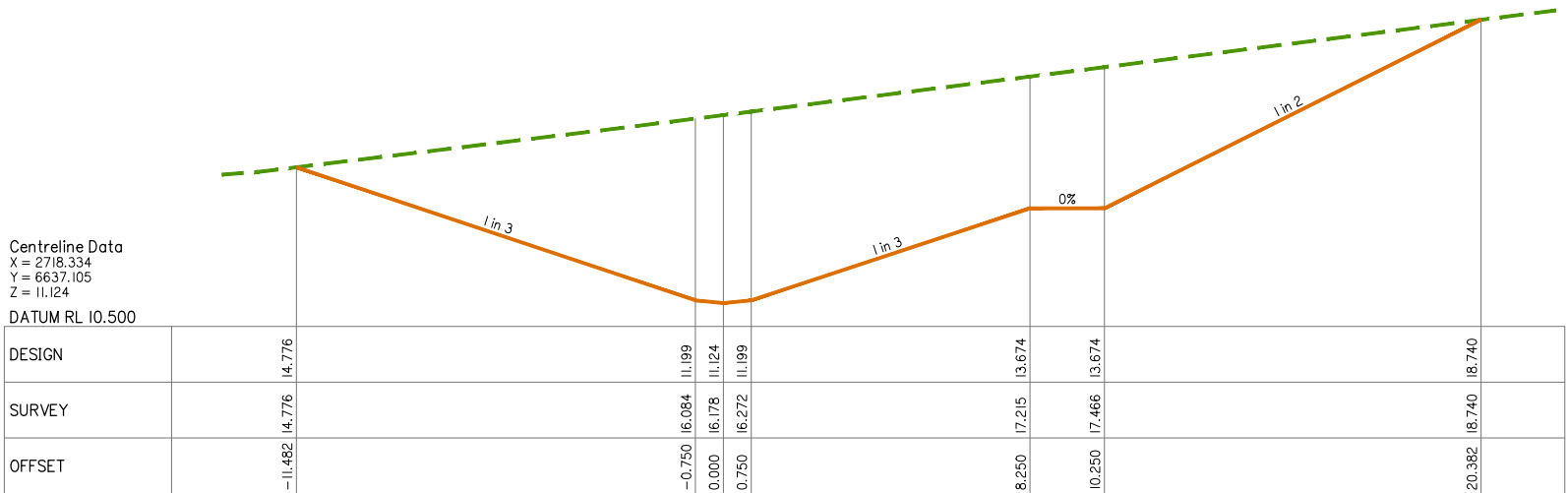
Scale at A1: AS SHOWN

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

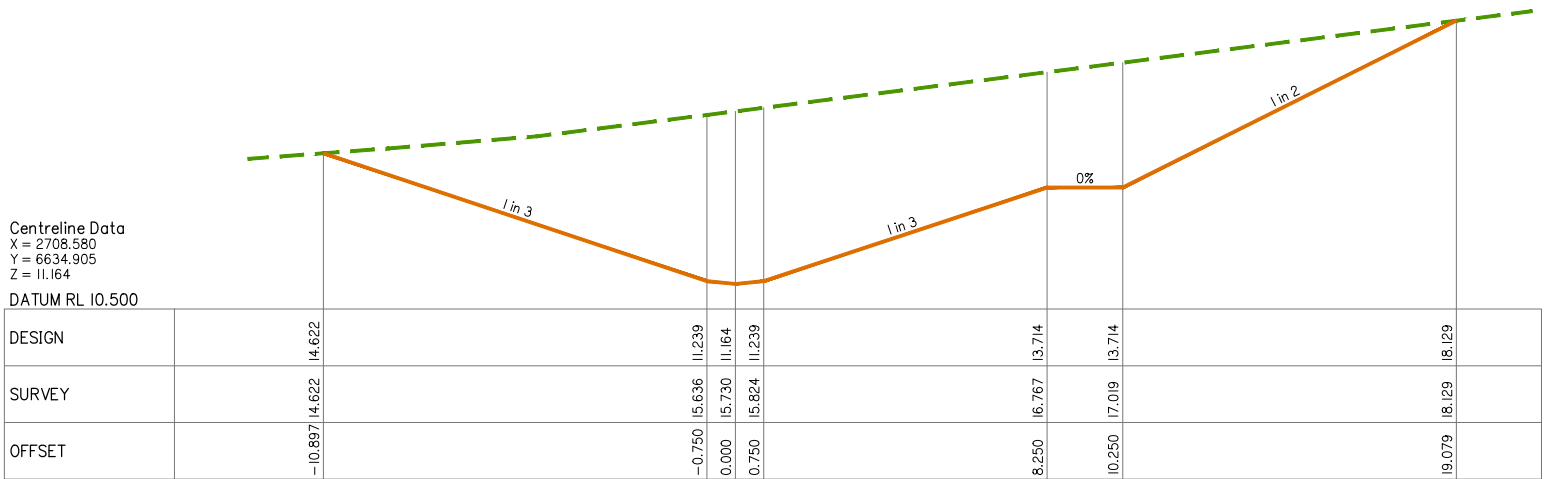
Drawing No: 5941 ENG BE1 459
Rev. No: B



CHAINAGE 400



CHAINAGE 390



CHAINAGE 380

SWALE DRAIN A BULK EARTHWORKS CROSS SECTIONS SHEET 7 OF 11

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



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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

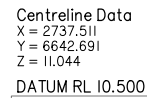
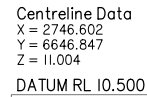
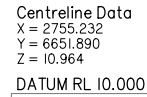
Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

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

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SWALE DRAIN A BULK
EARTHWORKS CROSS
SECTIONS SHEET 8 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.

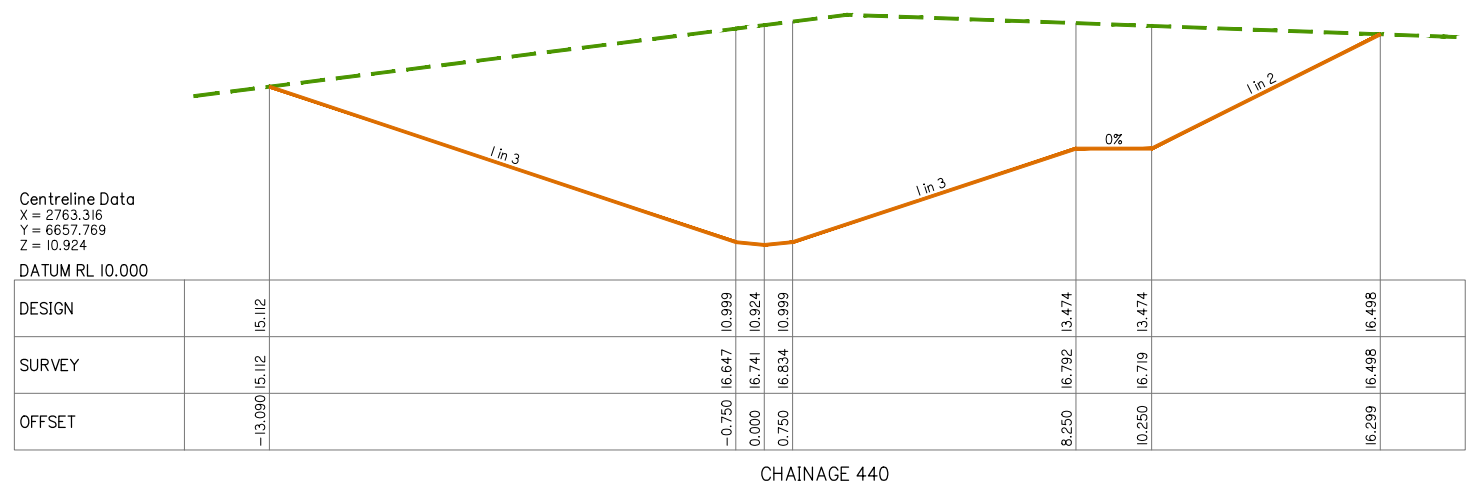
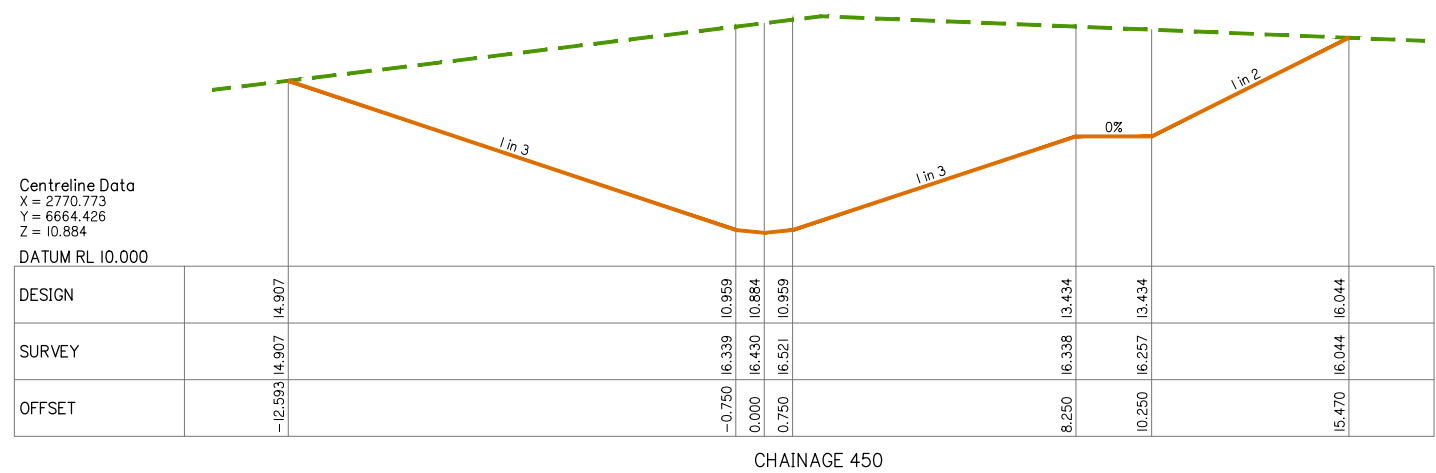
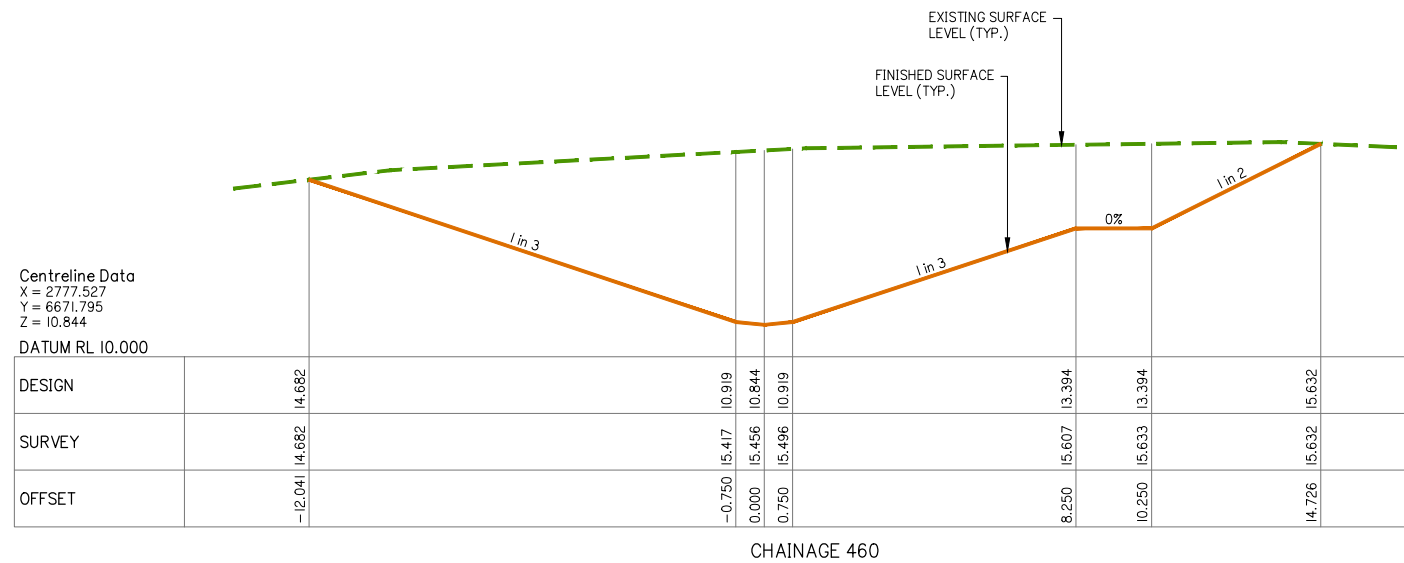
HOZ: 

VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
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SWALE DRAIN B BULK
EARTHWORKS CROSS
SECTIONS 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 1:100 - Lengths are in Metres.

HOZ: 

Scale 1:100 - Lengths are in Metres.

VERT: 

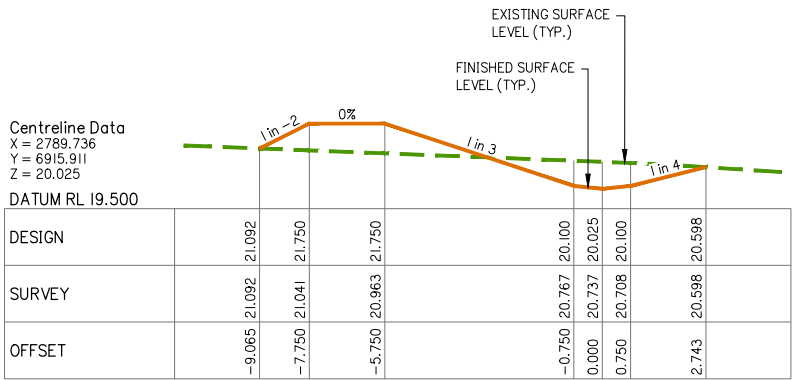
Scale at A1: AS SHOWN

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

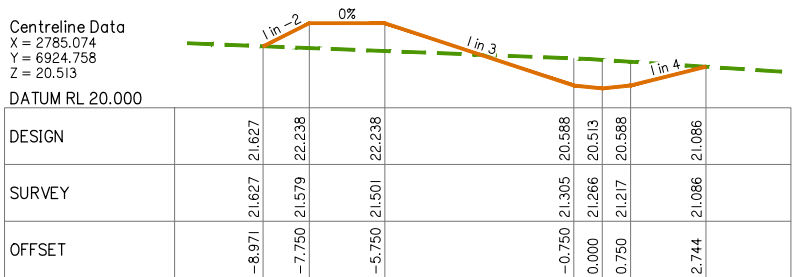
Drawing No:	Rev. No:
5941 ENG BE1 465	B



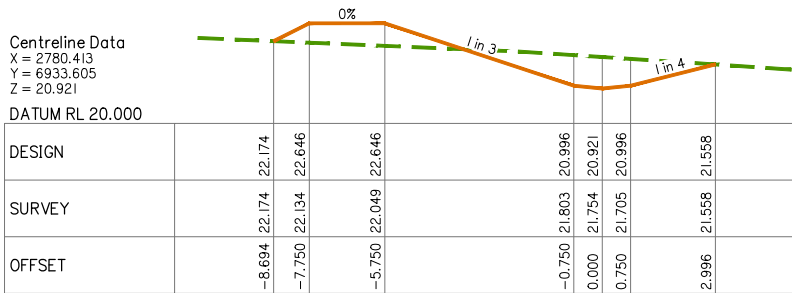
AI HORZ SCALE 1: 100
AI VERT SCALE 1: 100



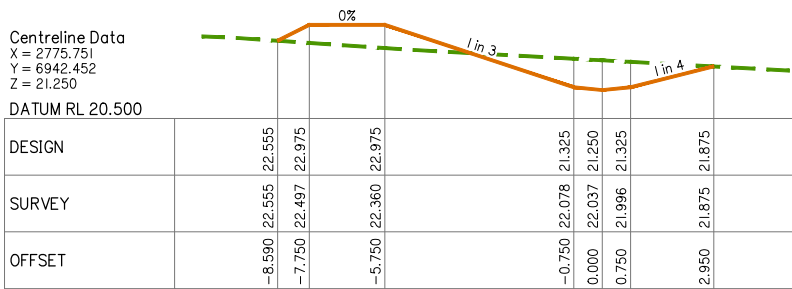
CHAINAGE 130



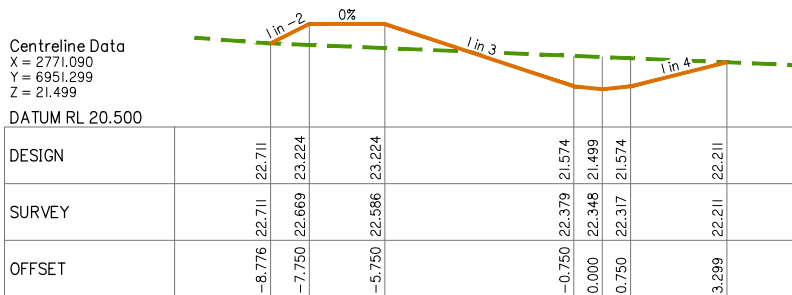
CHAINAGE 120



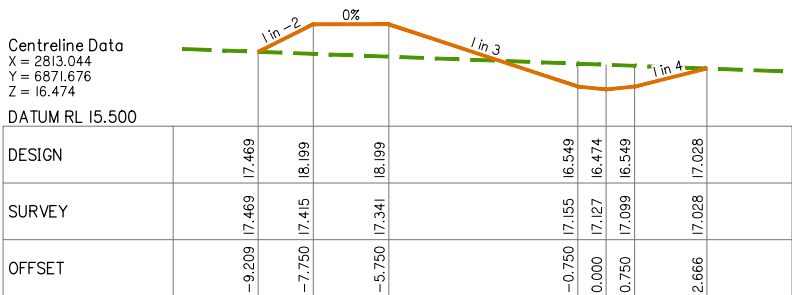
CHAINAGE 110



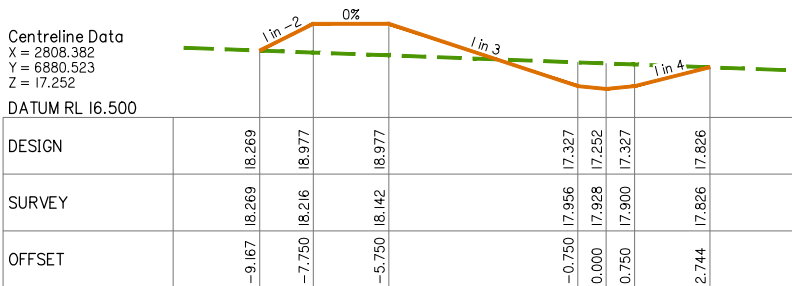
CHAINAGE 100



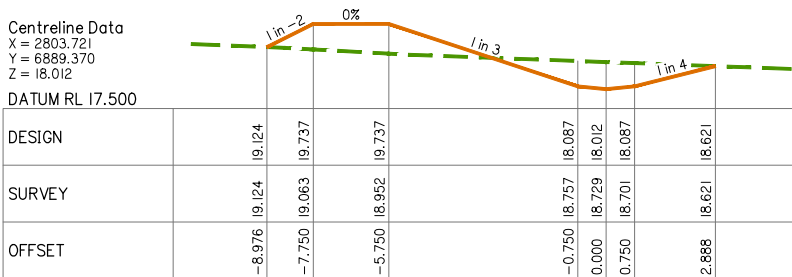
CHAINAGE 90



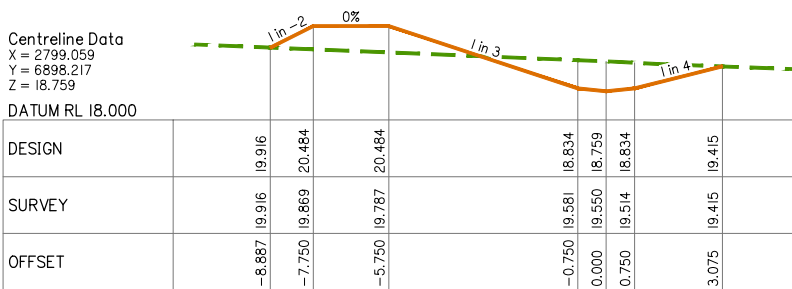
CHAINAGE 180



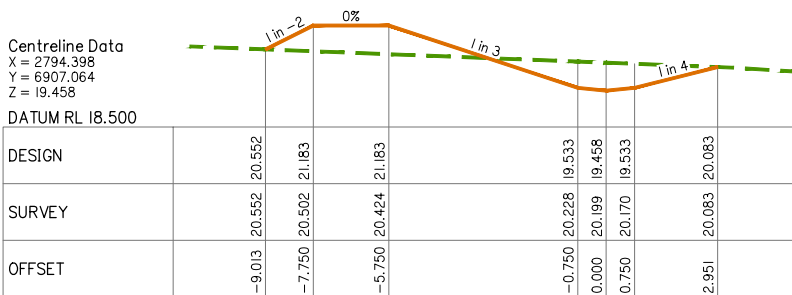
CHAINAGE 170



CHAINAGE 160



CHAINAGE 150



CHAINAGE 140

SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 2 OF 3

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



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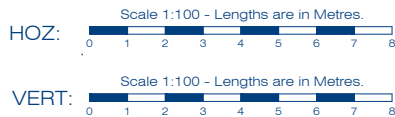
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SWALE DRAIN B BULK
EARTHWORKS CROSS
SECTIONS SHEET 2 OF 3

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

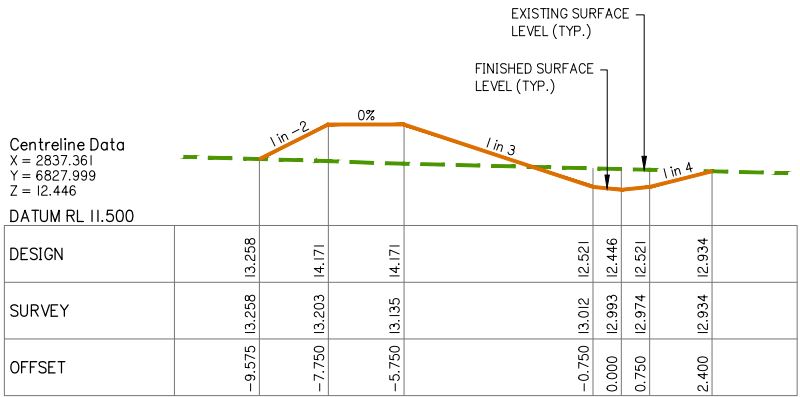
SCALE IN METRES



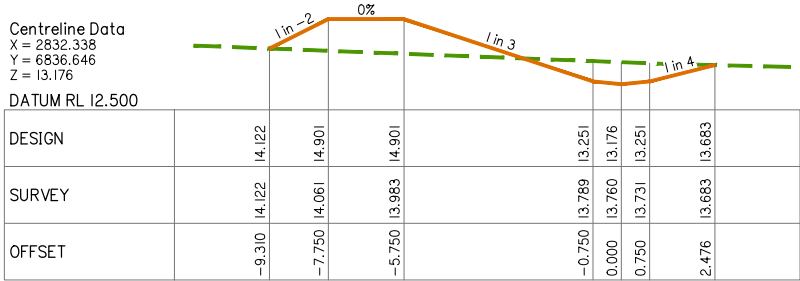
Scale at A1: AS SHOWN

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

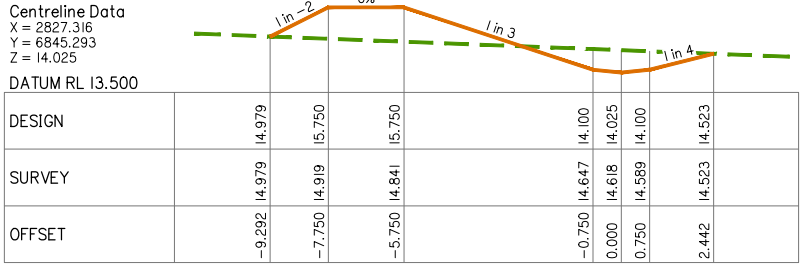
Drawing No: 5941 ENG BE1 466
Rev. No: B



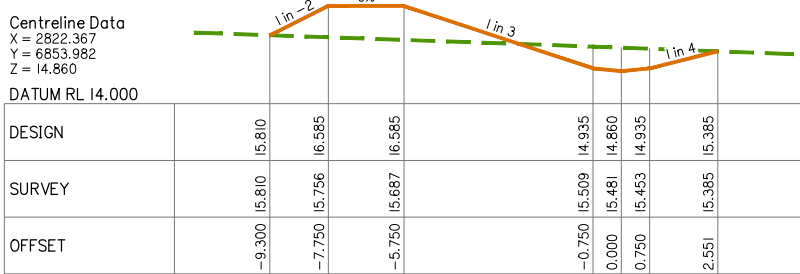
CHAINAGE 230



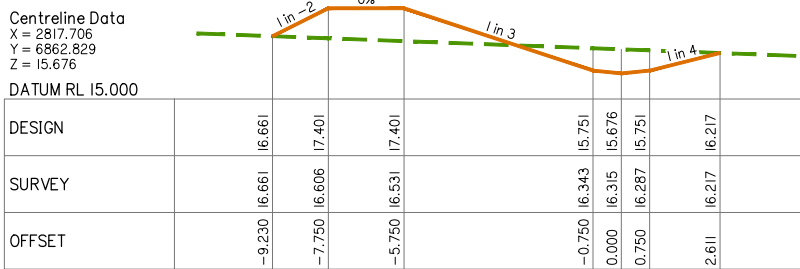
CHAINAGE 220



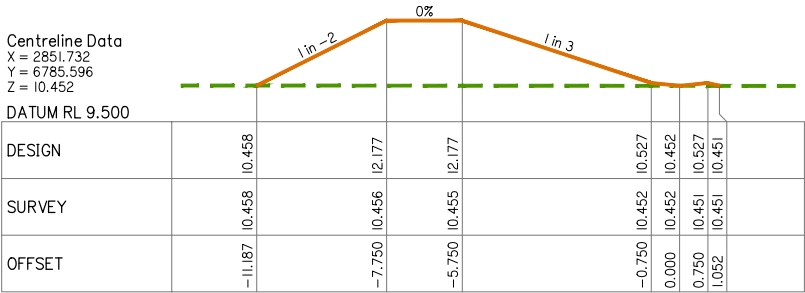
CHAINAGE 210



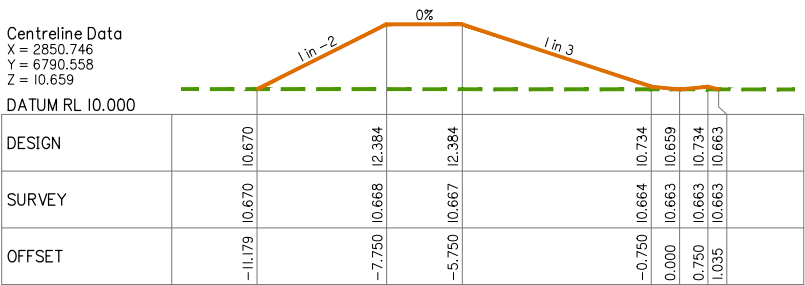
CHAINAGE 200



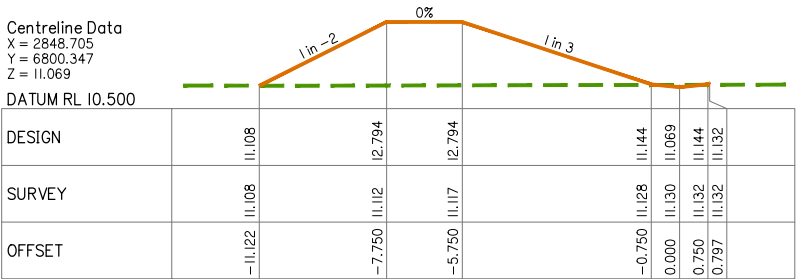
CHAINAGE 190



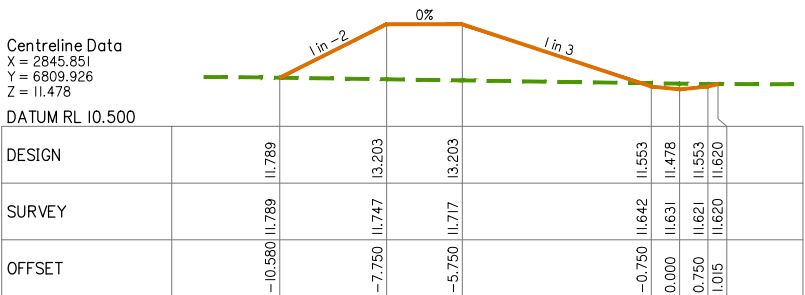
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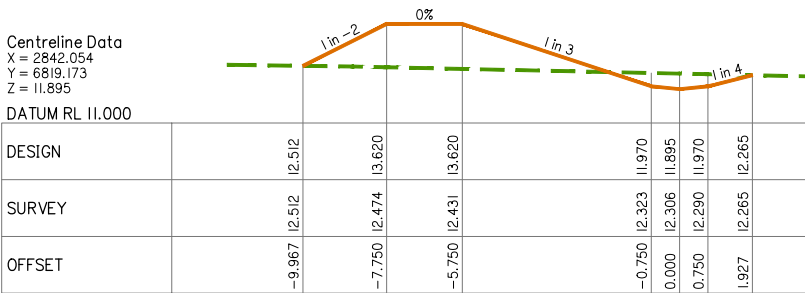
CHAINAGE 270



CHAINAGE 260



CHAINAGE 250



CHAINAGE 240

SWALE DRAIN B BULK EARTHWORKS CROSS SECTIONS SHEET 3 OF 3

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



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

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

SCALE IN METRES

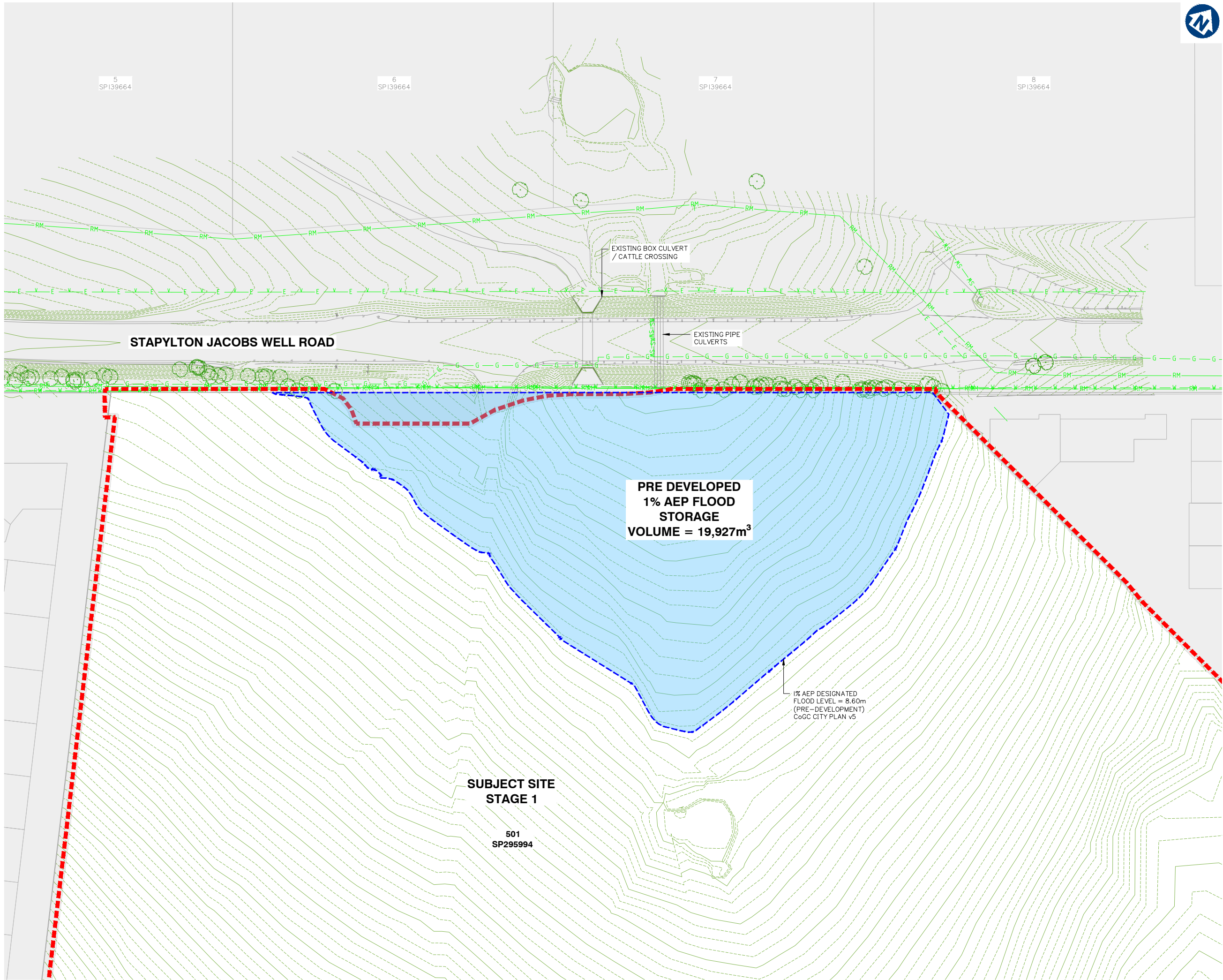
Scale 1:100 - Lengths are in Metres.
HOZ: 0 1 2 3 4 5 6 7 8

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

Scale at A1: AS SHOWN

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

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



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DRAWING TITLE
PRE DEVELOPED 1% AEP
FLOOD STORAGE
VOLUME ASSESSMENT

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

SCALE IN METRES



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

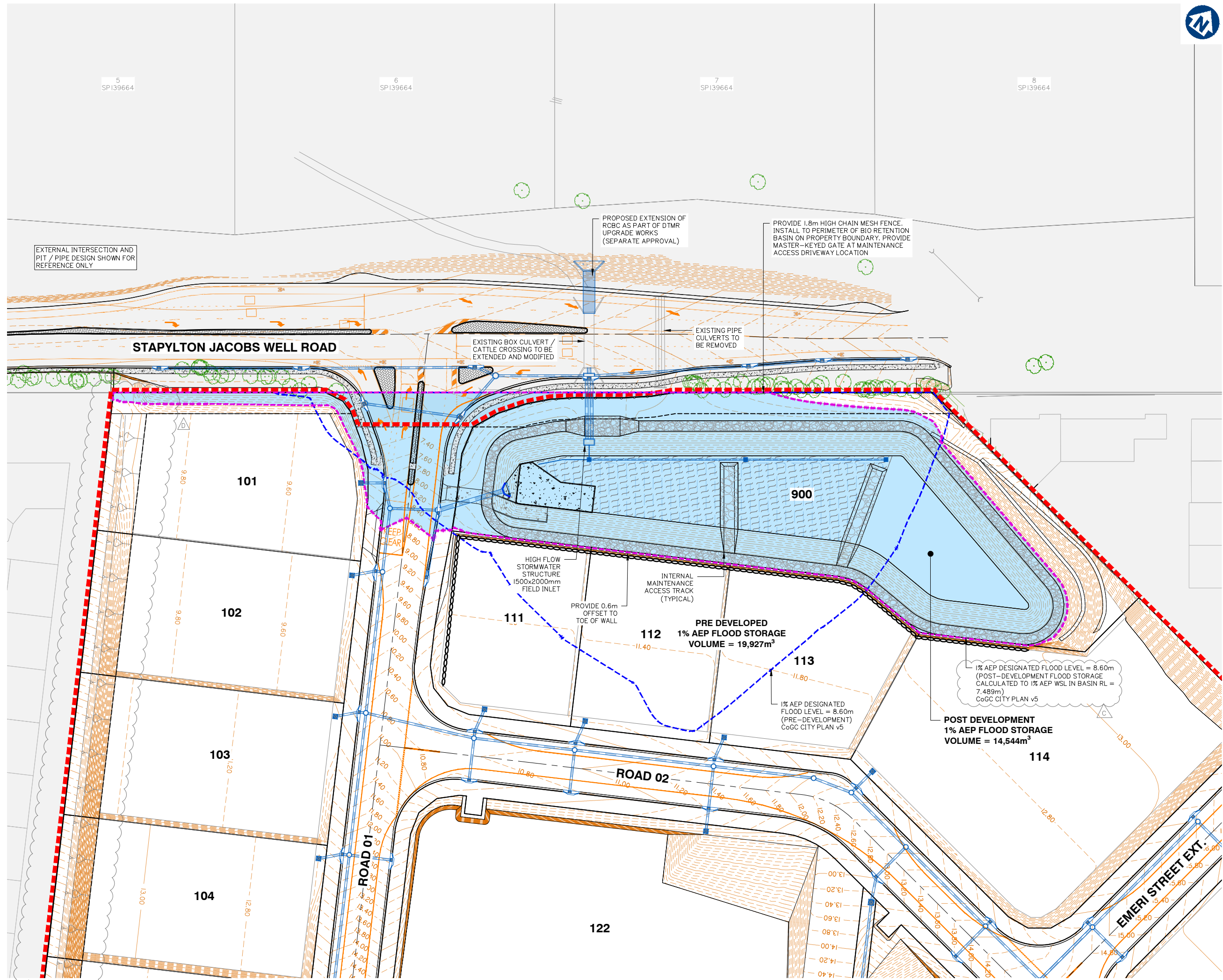
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	20-02-2020

Drawing No:
5941 ENG BE1 470

Rev. No:
B

PRE DEVELOPED 1% AEP FLOOD STORAGE VOLUME ASSESSMENT



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
NOT FOR CONSTRUCTION

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
POST DEVELOPED 1%
AEP FLOOD STORAGE
VOLUME ASSESSMENT

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	
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 471

Rev. No:
D



**FRASERS
PROPERTY**

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

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

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

C	12-03-2020	INFORMATION REQUEST RESPONSE	SK	MG	
B	20-09-2020	INFORMATION REQUEST RESPONSE	IQ	MG	
A	20-12-2019	ORIGINAL ISSUE	JRG	MG	
Issue	Date	Description	DRN	CHK	

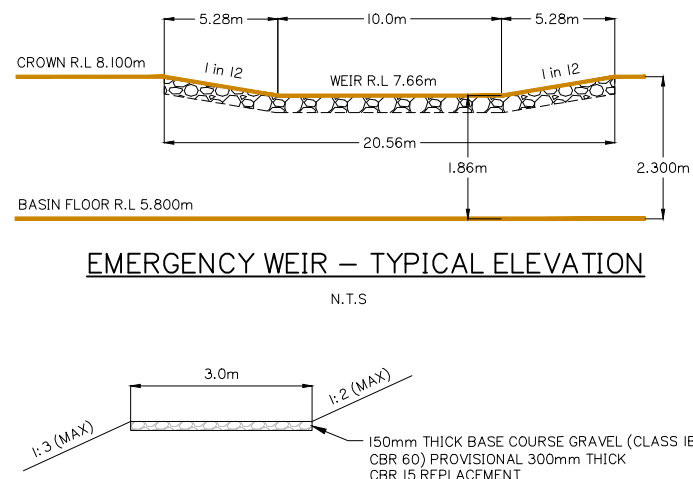
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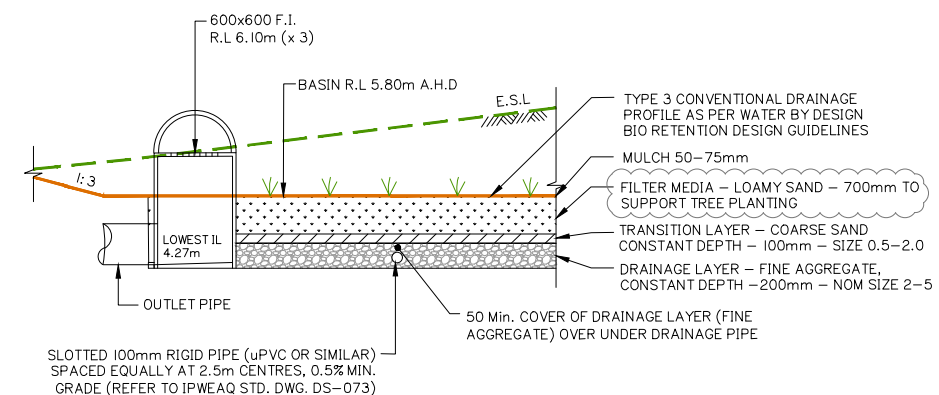
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Designed:	IG
Drafted:	JRG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2020

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

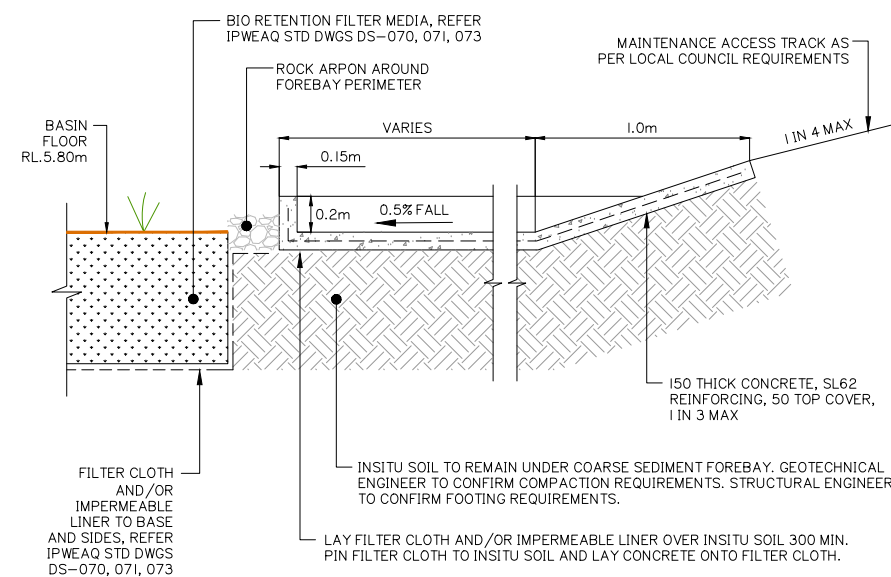
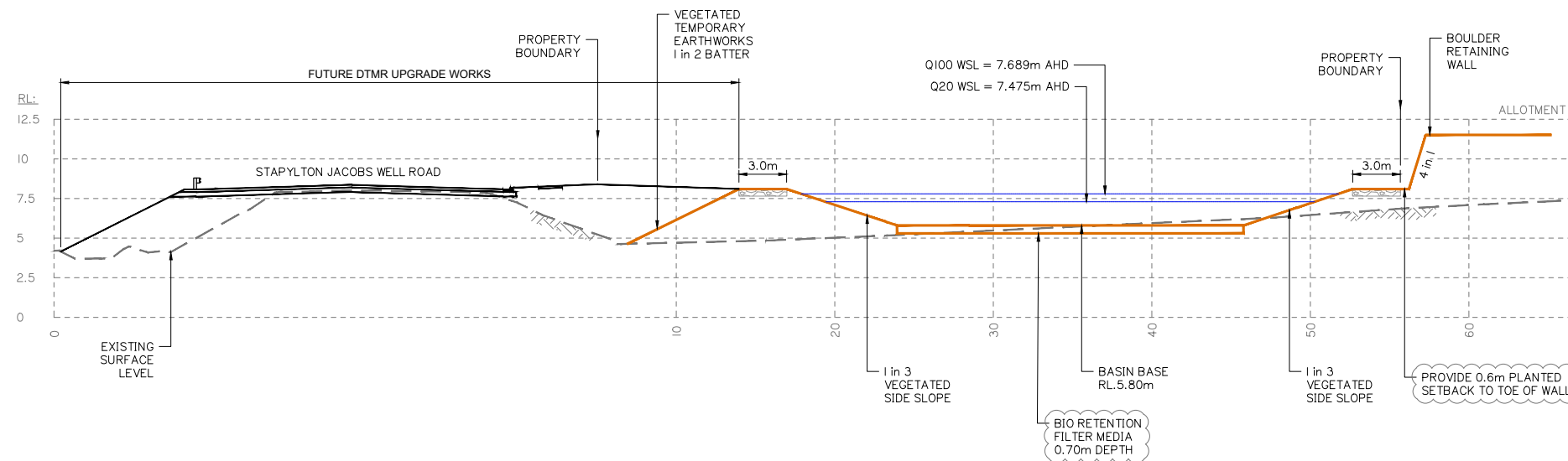
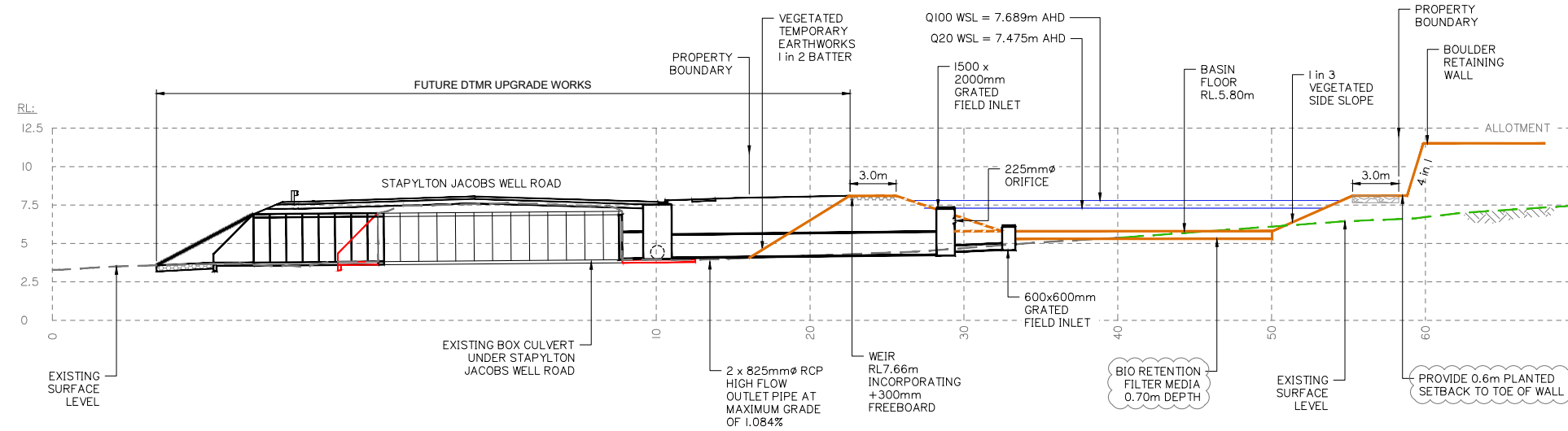


BIORETENTION BASIN I LAYOUT PLAN

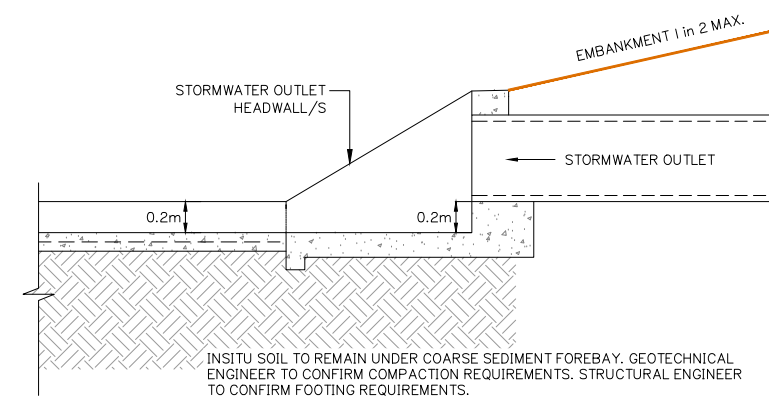


TYPICAL BIO-RETENTION BASIN DETAIL

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N.T.S.



N.T.S