

CIVIL OPERATIONAL WORKS VANTAGE YATALA - STAGE 2

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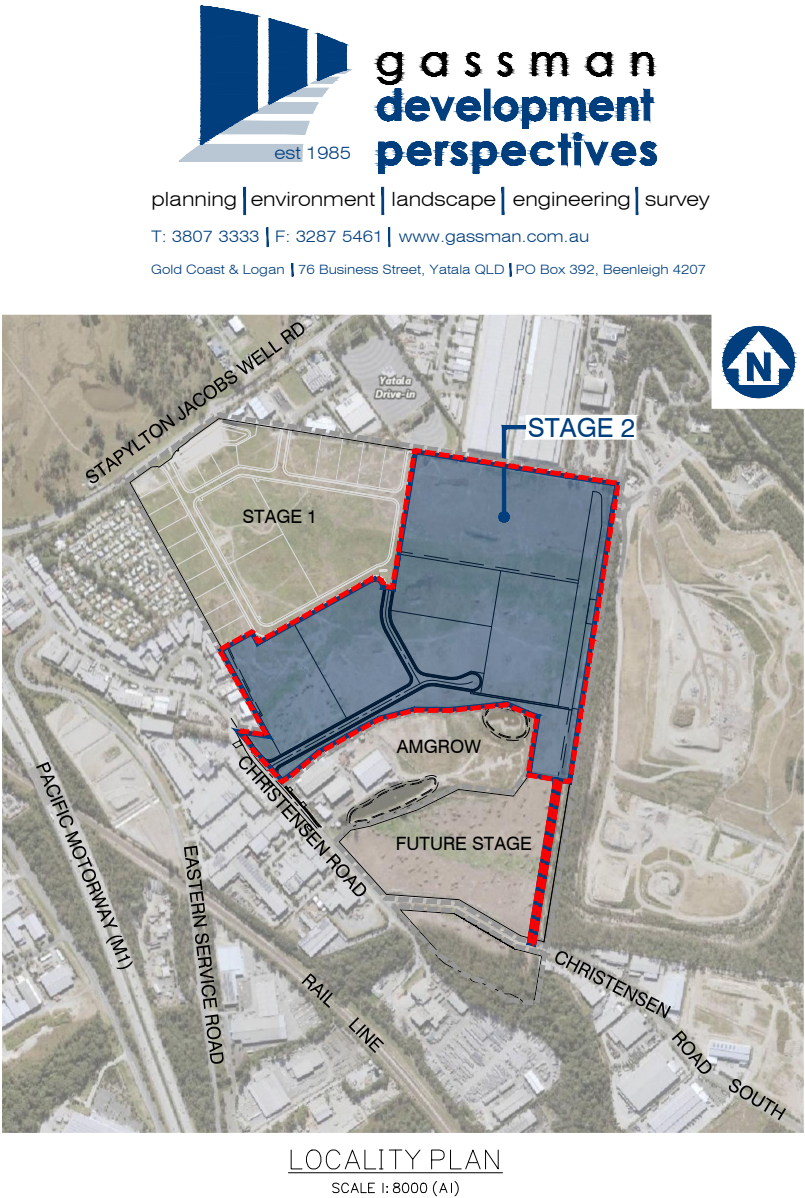
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: OPW/2021/1255

Dated: 25 October 2021

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

STANDARD DRAWINGS			
DRAWING No.	REV.	ASSOCIATION	DRAWING TITLE
DS-010	F	IPWEA	ACCESS CHAMBER – STORMWATER ACCESS CHAMBER DETAILS – 1050 TO 2100 DIA
DS-015	C	IPWEA	ACCESS CHAMBER – MANHOLE FRAME – ROADWAY AND NON ROADWAY – 1050 TO 2100 DIA
DS-018	C	IPWEA	ACCESS CHAMBER – MANHOLE RISER DETAILS
DS-019	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (ROADWAY)
DS-020	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (NON ROADWAY)
DS-021	C	IPWEA	ACCESS CHAMBER – MANHOLE COVER CONCRETE INFILL (PEDESTRIAN TRAFFIC) 1050 TO 2100 DIA
DS-030	F	IPWEA	EXCAVATION, BEDDING & BACKFILL – RIGID & FLEXIBLE DRAINAGE PIPES
DS-031	D	IPWEA	EXCAVATION, BEDDING & BACKFILL PRECAST – BOX CULVERTS
DS-040	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – SEDIMENT FENCE, ENTRY/EXIT SEDIMENT TRAP
DS-041	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – KERB AND FIELD INLET, CHECK DAMS & STRAW BALES
DS-050	E	IPWEA	DRAINAGE PITS – FIELD INLET TYPE 1 AND TYPE 2
DS-061	B	IPWEA	DRAINAGE PITS – KERB INLET – PRECAST LINTEL DETAILS
DS-062	D	IPWEA	DRAINAGE PITS – KERB INLET – GRATE AND FRAME
DS-063	C	IPWEA	DRAINAGE PITS – KERB INLET – LIP IN LINE – GENERAL ARRANGEMENT
DS-065	I	IPWEA	PATHWAYS – CONCRETE PATHWAY CONSTRUCTION DETAILS
DS-073	A	IPWEA	BIORETENTION DRAINAGE PROFILE – TYPE 3 – CONVENTIONAL
DS-075	A	IPWEA	LARGE BIORETENTION SEDIMENT FOREBAY
DS-076	A	IPWEA	BIORETENTION WEIR
DS-078	A	IPWEA	BIORETENTION STANDARD NOTES
GS-041	D	IPWEA	FENCING – CHAIN WIRE SECURITY FENCING
RS-049	E	IPWEA	VEHICLE CROSSING – RESIDENTIAL DRIVEWAYS – PLAN 1 OF 2
RS-050	G	IPWEA	VEHICLE CROSSING – RESIDENTIAL DRIVEWAYS – PLAN 2 OF 2
RS-080	F	IPWEA	KERB AND CHANNEL – PROFILES AND DIMENSIONS – INCLUDING EDGE RESTRAINTS, MEDIAN & CHANNEL
RS-090	J	IPWEA	KERB RAMPS – RAMPED PEDESTRIAN
RS-091	F	IPWEA	KERB RAMPS – RAMPED AND CUT THROUGH TREATMENTS – FOR PEDESTRIAN CROSSINGS, SLIP LANES AND MEDIANS
RS-094	F	IPWEA	KERB RAMPS – LOCATIONS AND CONFIGURATIONS
RS-130	F	IPWEA	ROAD FURNITURE – STREET NAME SIGN AND LOCATION (FINGERBOARD)
RS-131	G	IPWEA	ROAD FURNITURE – TRAFFIC SIGN INSTALLATION DETAILS
RS-140	F	IPWEA	SUBSOIL DRAINS – DETAILS AND LOCATION
RS-142	F	IPWEA	SUBSOIL DRAINS – ACCESS POINTS
SD1033	K	DTMR	KERB AND CHANNEL
SD1304	N	DTMR	PIPE CULVERTS – WINGWALLS, HEADWALLS AND APRON FOR PIPE DIA 750 TO 2400
02-003	2	CoGC	TYPICAL CROSS SECTIONS – COLLECTOR STREETS – PLAN 2 OF 2
02-005	I	CoGC	PUBLIC UTILITY PLANT CORRIDOR ALLOCATIONS IN PUBLIC ROAD VERGES
02-601	I	CoGC	NEW ROADS – SERVICE CONDUIT CROSSINGS
02-602	I	CoGC	ROAD CROSSING – TRENCH RESTORATION – FLEXIBLE PAVEMENTS
03-008	I	CoGC	FIELD INLET AND INTER--ALLOTMENT DRAINAGE PIT
03-101	I	CoGC	STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA
03-102	I	CoGC	STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA ROOF SLABS
03-201	I	CoGC	EXCAVATION AND BEDDING OF CONCRETE STORMWATER PIPES
05-014	I	CoGC	CHAIN WIRE FENCING – 1.8m HIGH



LOCALITY PLAN
SCALE 1:8000 (A1)



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

VantageYatala

SITE ADDRESS

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

DWG No. 594I ENG OPW2 001 – REV B
SEPTEMBER 2021

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 I 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 GOCC. 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 SEED 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.

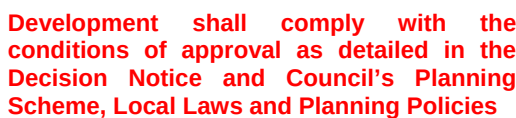
ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY.

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).



Drawing No:	Rev. No:
5941 ENG OPW2 002	B

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

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

— RM — X — RM — X — RM — X — RM — X —	DEMOLISH RISING MAIN
— S — X — S — X — S — X — S — X —	DEMOLISH SEWER
— SW — X — SW — X — SW — X — SW — X —	DEMOLISH STORMWATER
— SS — X — SS — X — SS — X — SS — X —	DEMOLISH SUBSOIL
— W — X — W — X — W — X — W — X —	DEMOLISH WATER
— OIL — X — OIL — X — OIL — X — OIL — X —	DEMOLISH OIL
— F — X — F — X — F — X — F — X — F — X —	DEMOLISH FUEL
— HV — X — HV — X — HV — X — HV — X —	DEMOLISH HIGH VOLTAGE ELECTRICITY
— E — X — E — X — E — X — E — X — E — X —	DEMOLISH UNDERGROUND ELECTRICITY
— E — X — E — X — E — X — E — X — E — X —	DEMOLISH OVERHEAD ELECTRICITY
— L — X — L — X — L — X — L — X — L — X —	DEMOLISH LIGHTING
— G — X — G — X — G — X — G — X — G — X —	DEMOLISH GAS
— P — X — P — X — P — X — P — X — P — X —	DEMOLISH PIPELINE
— T — X — T — X — T — X — T — X — T — X —	DEMOLISH TELSTRA
— C — X — 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
	EXISTING BIN
	POST BOX
	TELEPHONE BOX
	TELSTRA PIT
	TELSTRA MARKER POST
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	WATER TAP
	WATER HYDRANT
	WATER TEE
	WATER REDUCER
	WATER ENDCAP
	WATER CONNECTION
	WATER CROSSING
	WATER DIEL
	SEWER MAINTENANCE HOLE
	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

	POWER POLE
	POWER POLE WITH LIGHT
	LIGHT POLE
	STAY POLE
	LIGHT POLE WITH EXTENSION
	ELECTRICAL INSPECTION BOX
	ELECTRICAL POLE
	ELECTRICAL TURRET
	TRAFFIC SIGNAL
	MAIN ROADS PIT
	TANGENT POINT
	KERB RETURN NO.
	PRAM RAMP
	GRAVEL ROCK CHECK DAM
	MESH & GRAVEL INLET FILTER
	STORMWATER INLET FILTER
	DIRECTION OF OVERLAND FLOW
	VEHICLE SHAKEDOWN
	GATE
	NOT IN SCOPE OF WORKS
	DEMOLITION
	PROPOSED CONCRETE FOOTPATH
	SCOUR PROTECTION
	TREES
	TADPOLE

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VANTAGE YATALA STAGE 2

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

RPD:

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

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LEGEND

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MC
A	30/07/21	ORIGINAL ISSUE	LAB	MC
Issue	Date	Description	DRN	CH

Scale at A1:	NTS
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:	Rev. No:
5941 ENG OPW2 004	B

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

G:\Projects\5941\ENGINEERING\Acad\CIVIL WORKS STAGE 2\Current\5941 ENG OPW2 002-004.dwg



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RPD:	
Lot:	501
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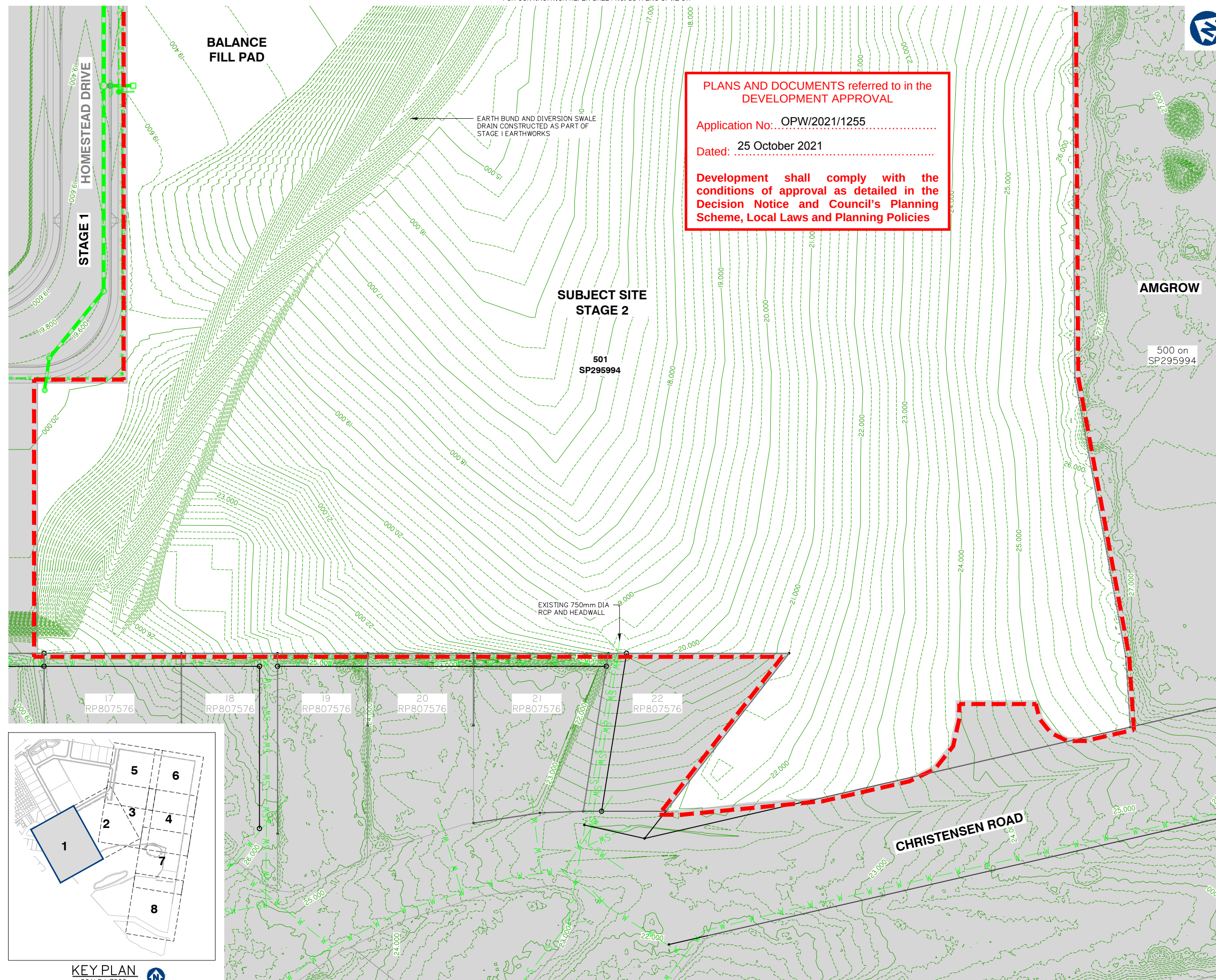
DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 1 OF 8

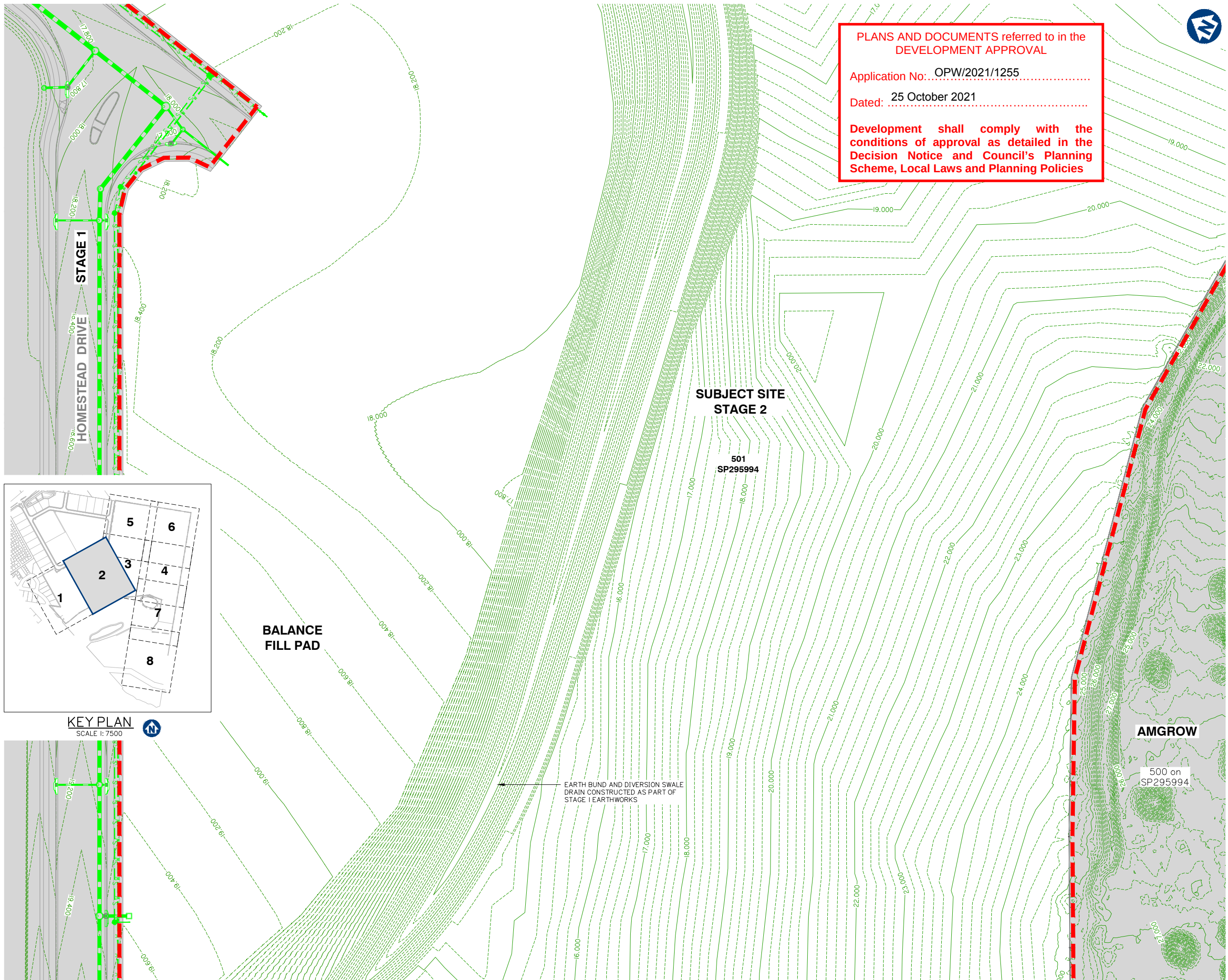
B	10/09/21		INFORMATION REQUEST RESPONSE	LAB	MO
A	30/07/21		ORIGINAL ISSUE	LAB	MO
Request			Description	DRI	CHI

Scale at A1: 1:500

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RPEQ:	16939
Signed:	
Date:	10/09/2021

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5941 ENG OPW2 010	B





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VANTAGE YATALA
STAGE 2

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ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
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SHEET 2 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

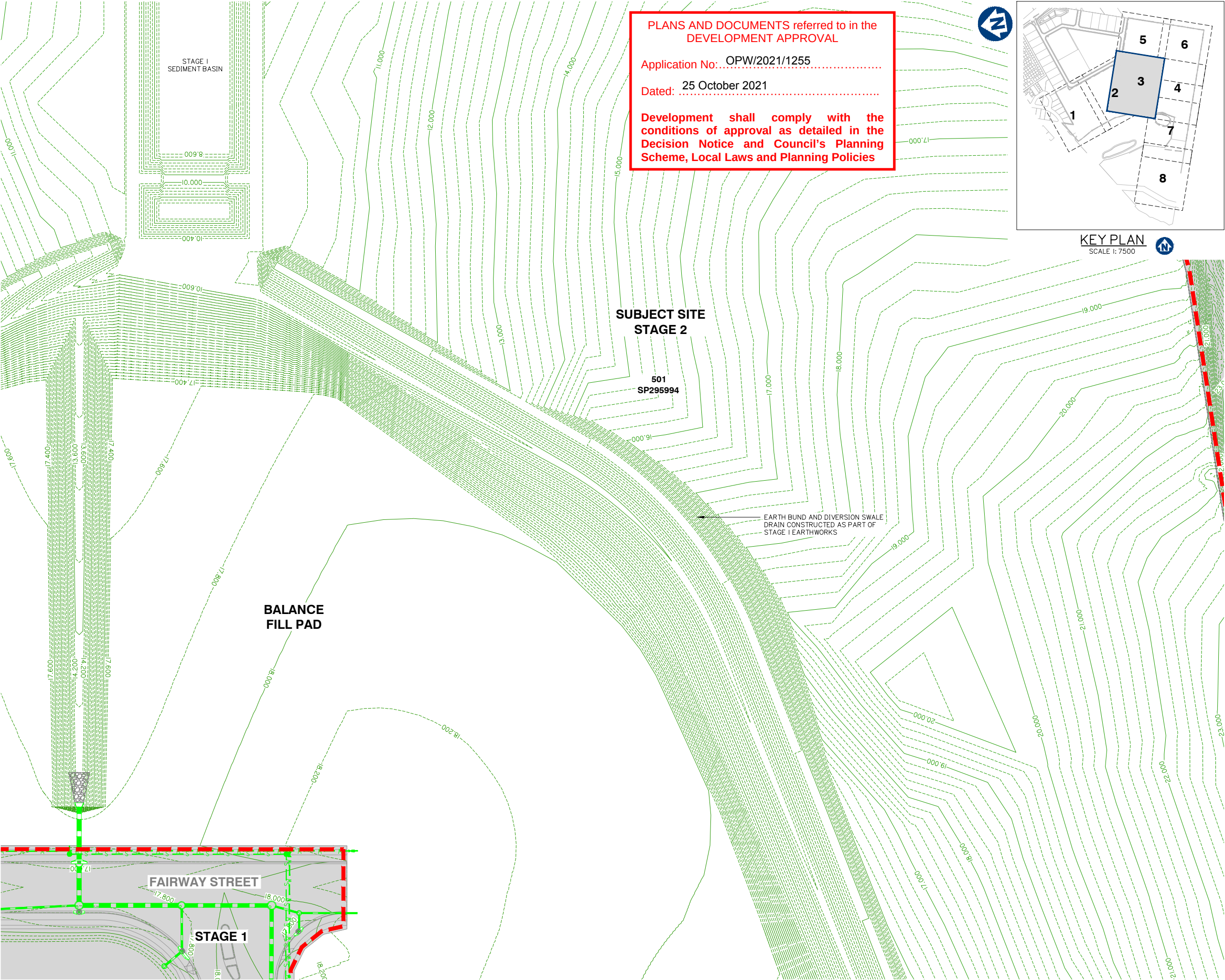


1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

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Date:	10/09/2021

Drawing No: 5941 ENG OPW2 011 Rev. No: B

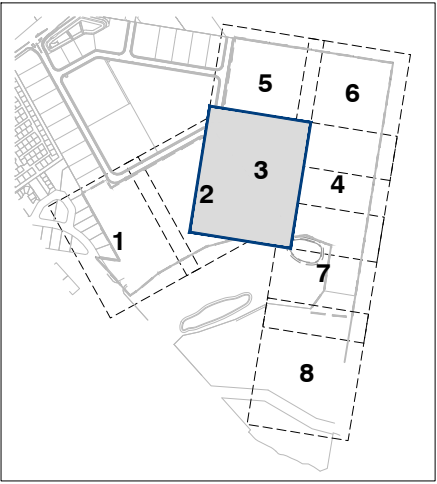


PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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



KEY PLAN
SCALE 1: 7500



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SHEET 3 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
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Issue	Date	Description	DRN	CHK	

SCALE IN METRES

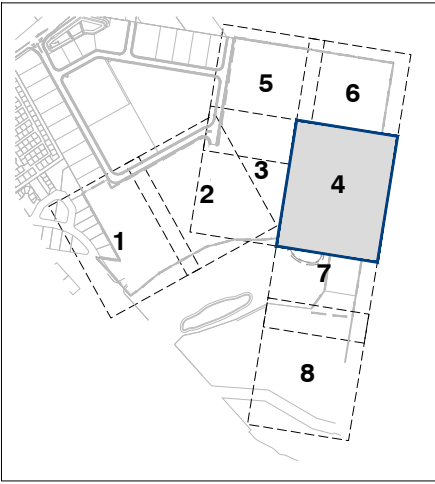
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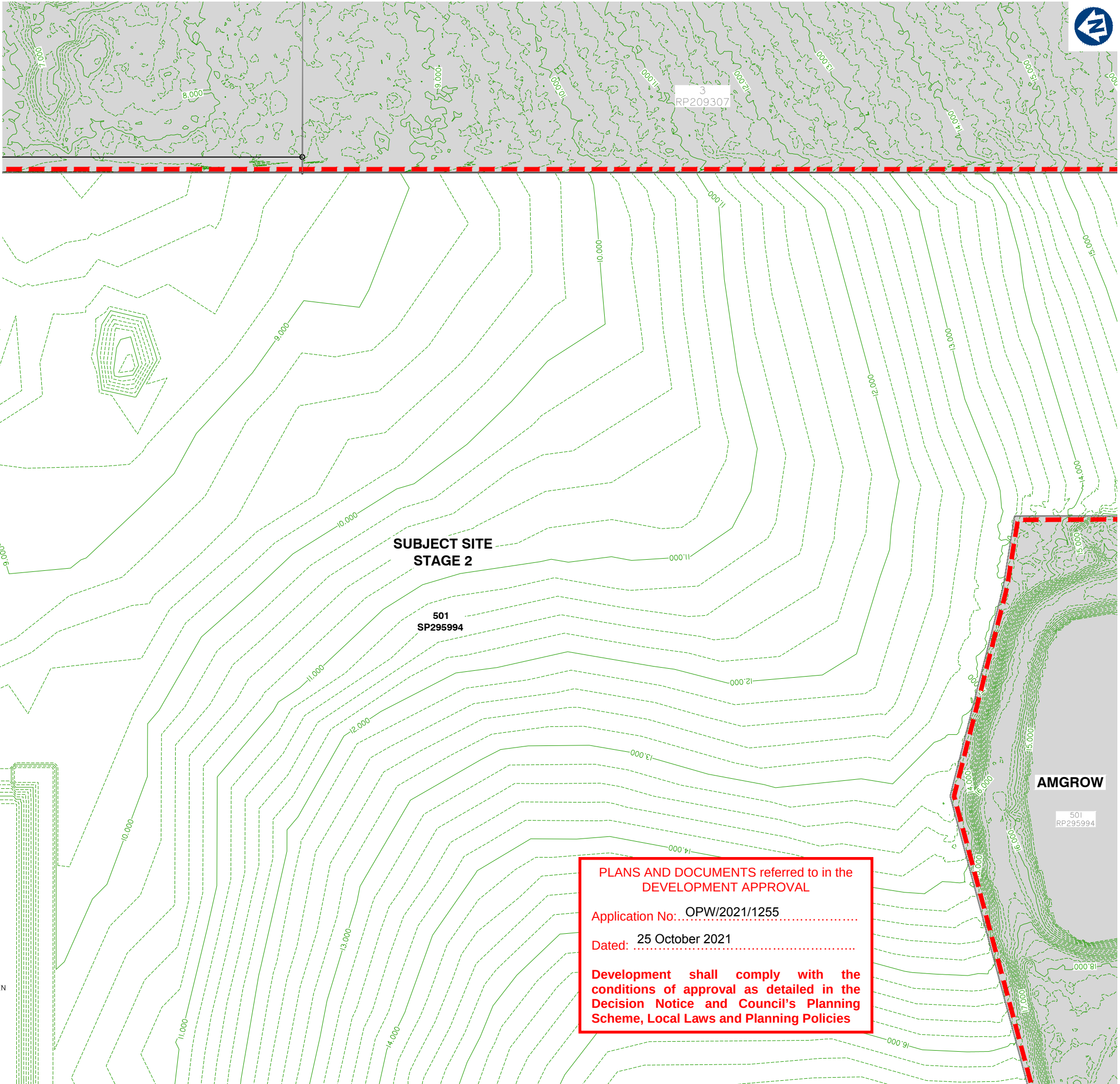
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RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 012

Rev. No: B



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STAGE 2

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ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501
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Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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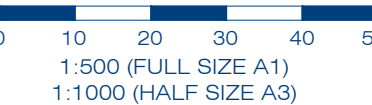
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 4 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW2 013

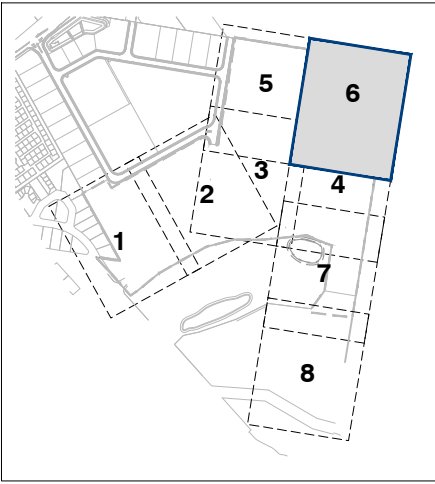
Rev. No:
B

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 015

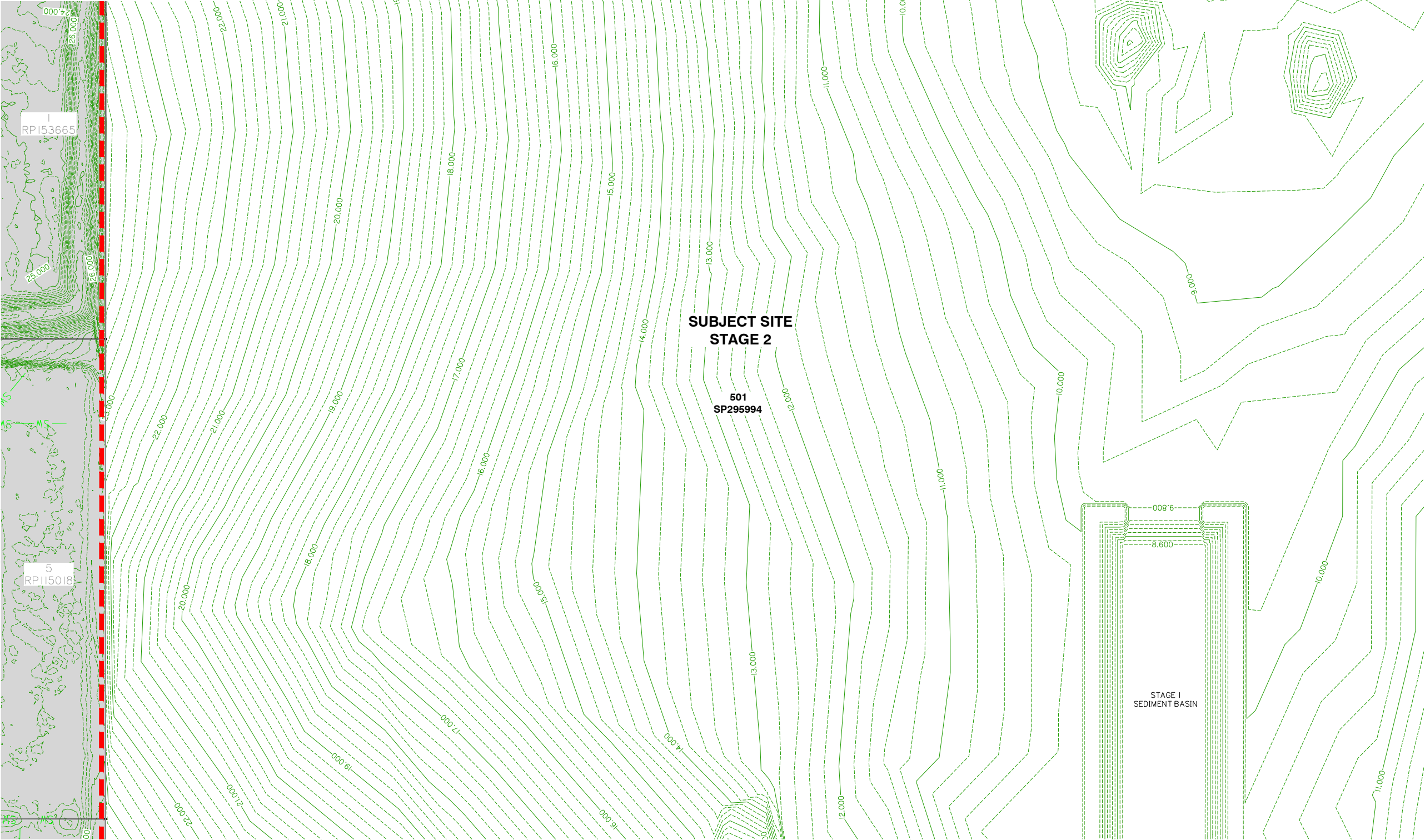
FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 016

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

Rev. No:
B



KEY PLAN
SCALE 1: 7500



FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 014

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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



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

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 6 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

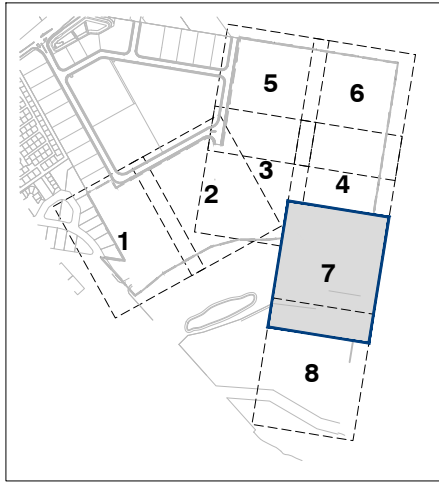


1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 015
Rev. No: B



KEY PLAN
SCALE 1:7500

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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



Client:



Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 7 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



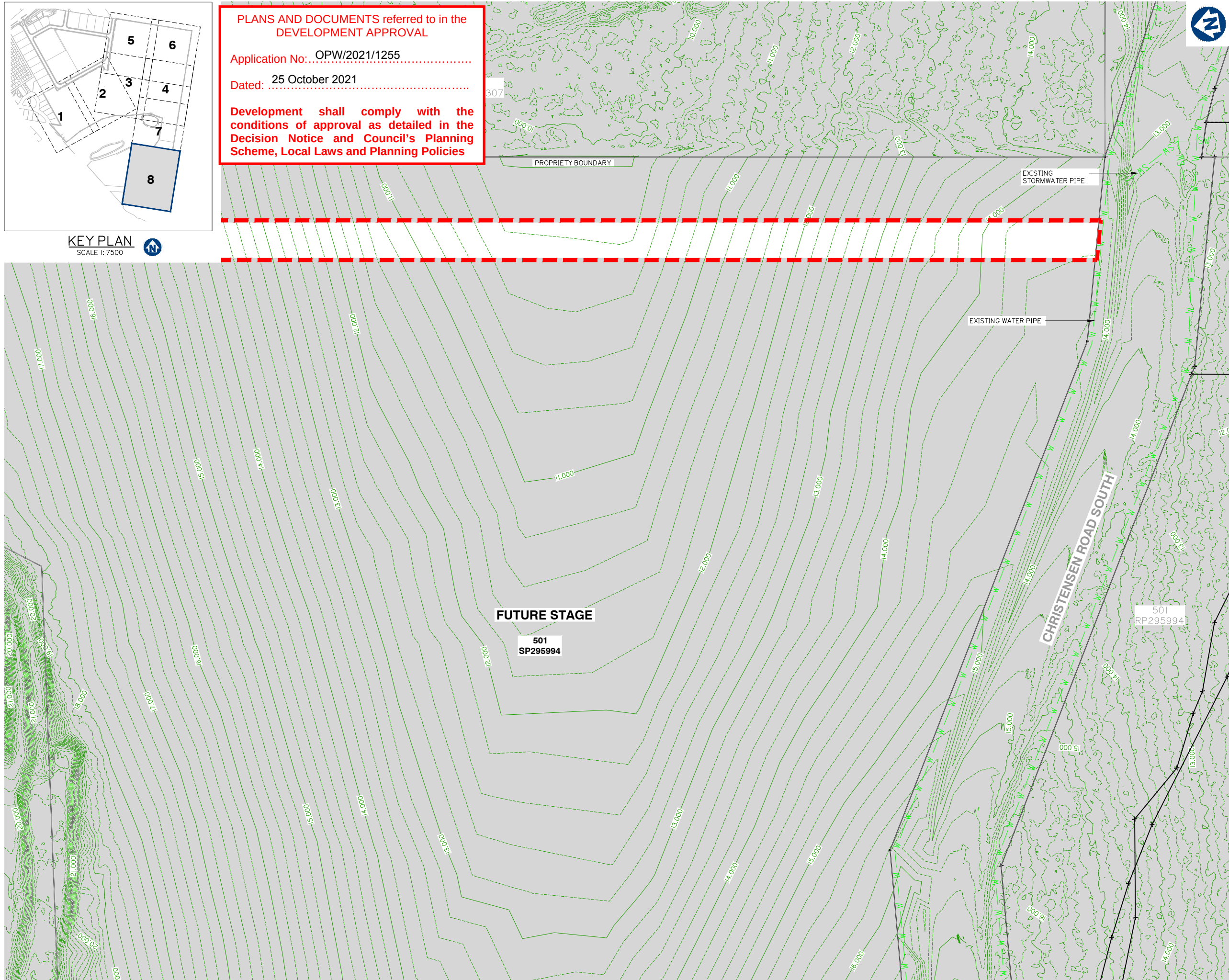
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 016 Rev. No: B



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





FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

VANTAGE YATALA STAGE 2

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

THIS DRAWING IS INTENDED TO
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Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RI: -

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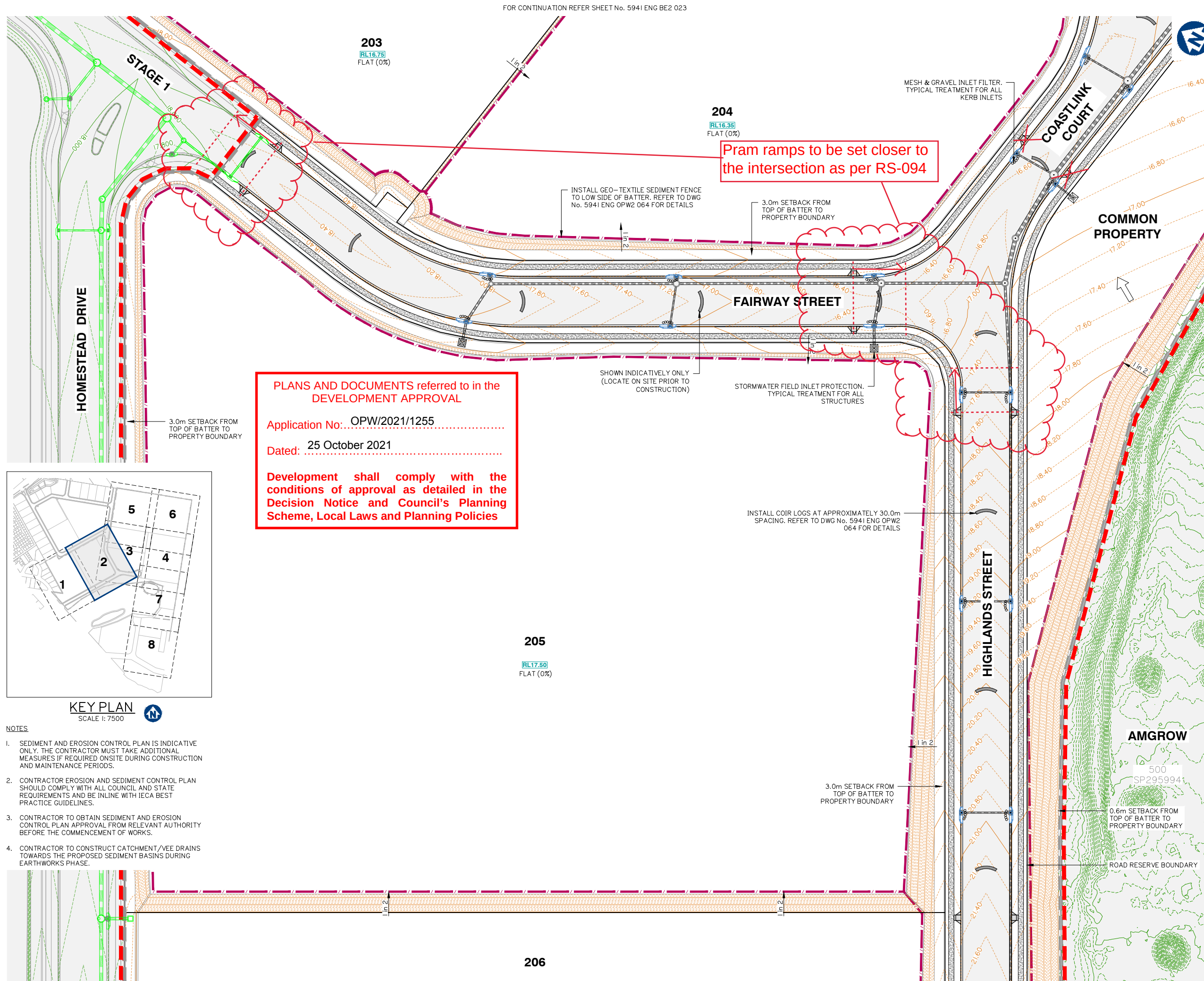
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 2 OF 8

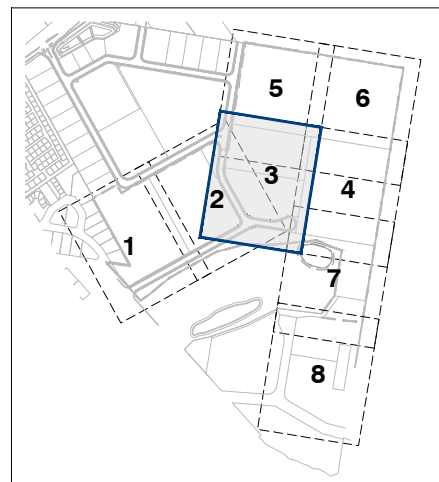
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:	Rev. No:
5941 ENG OPW2 051	B





KEY PLAN
SCALE 1: 7500

NOTES

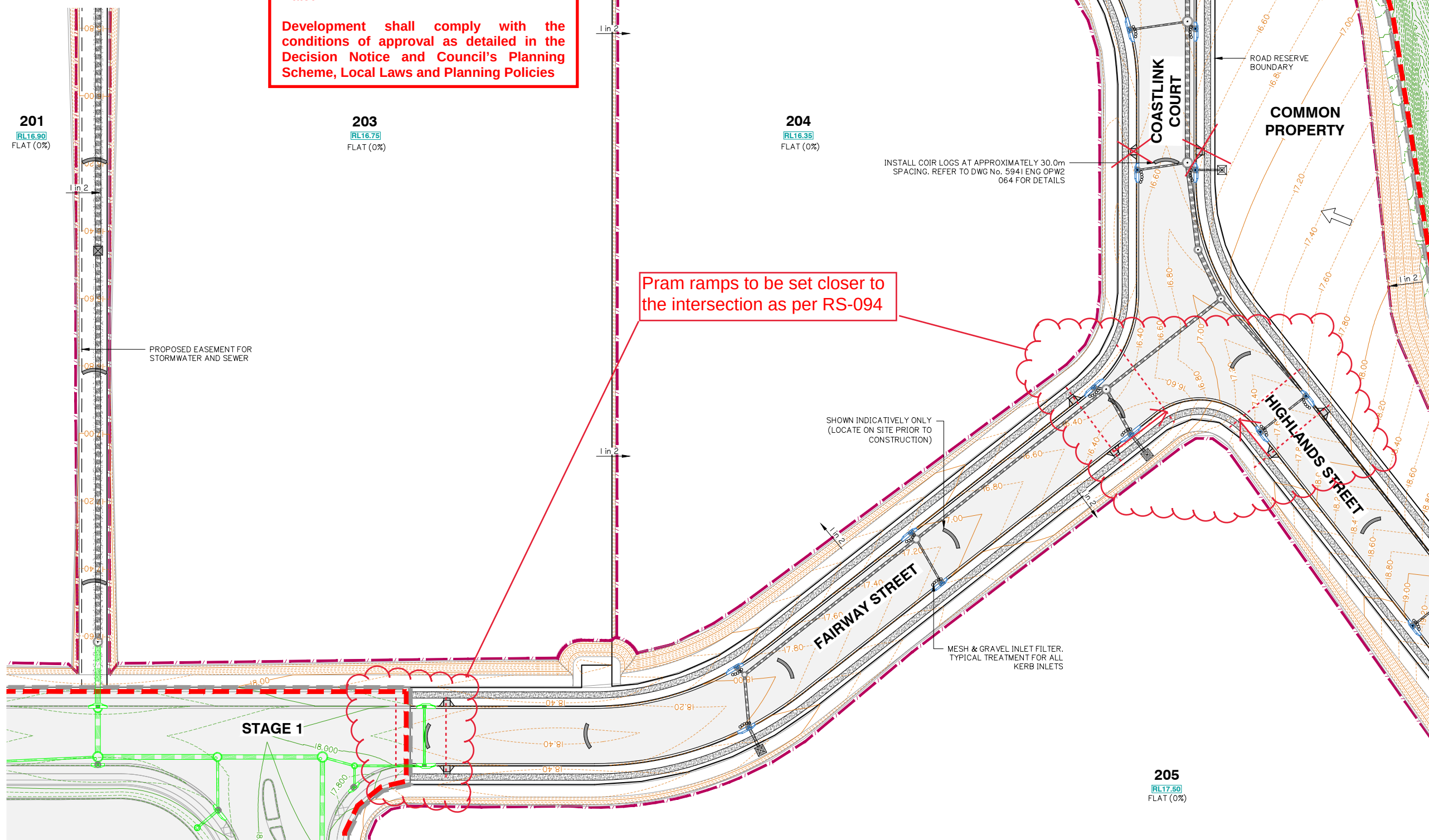
1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
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4. CONTRACTOR TO CONSTRUCT CATCHMENT / VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

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

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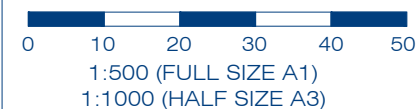
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DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 8

Rev.	Date	Description	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



Scale at A1: 1:500

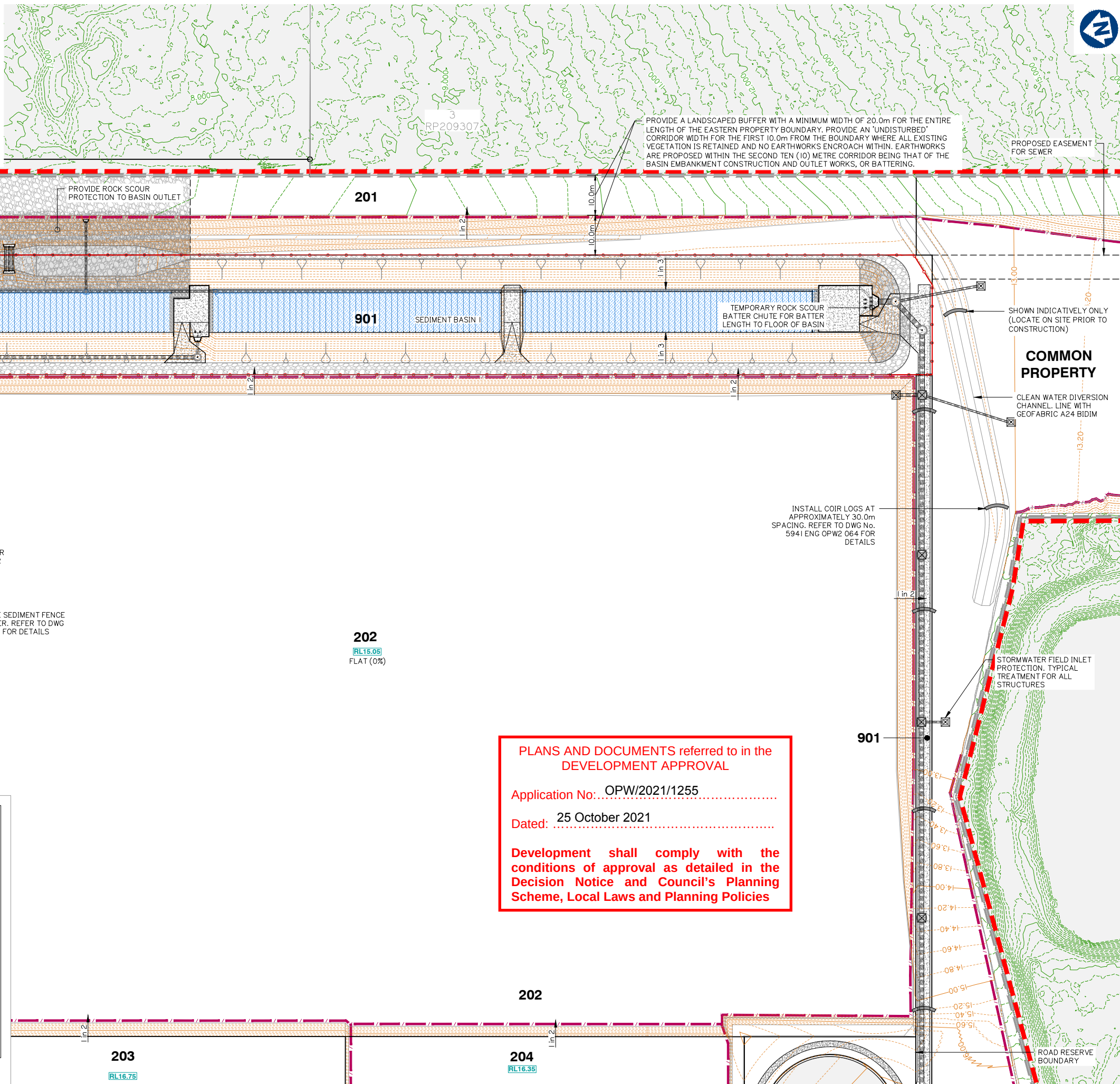
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW2 052

Rev. No:
B

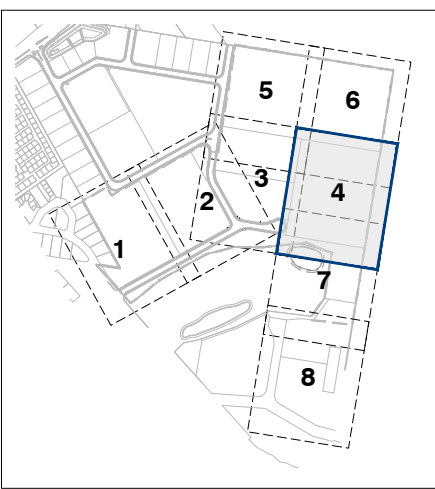
NOTES

1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ON SITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
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FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 025

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 026



KEY PLAN
SCALE 1:7500

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

Development shall comply with the
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Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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

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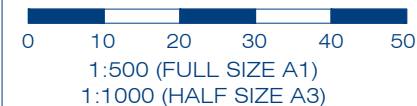
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 8

Rev.	Date	Description	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
Issue	Date	Description	DRN	CHK

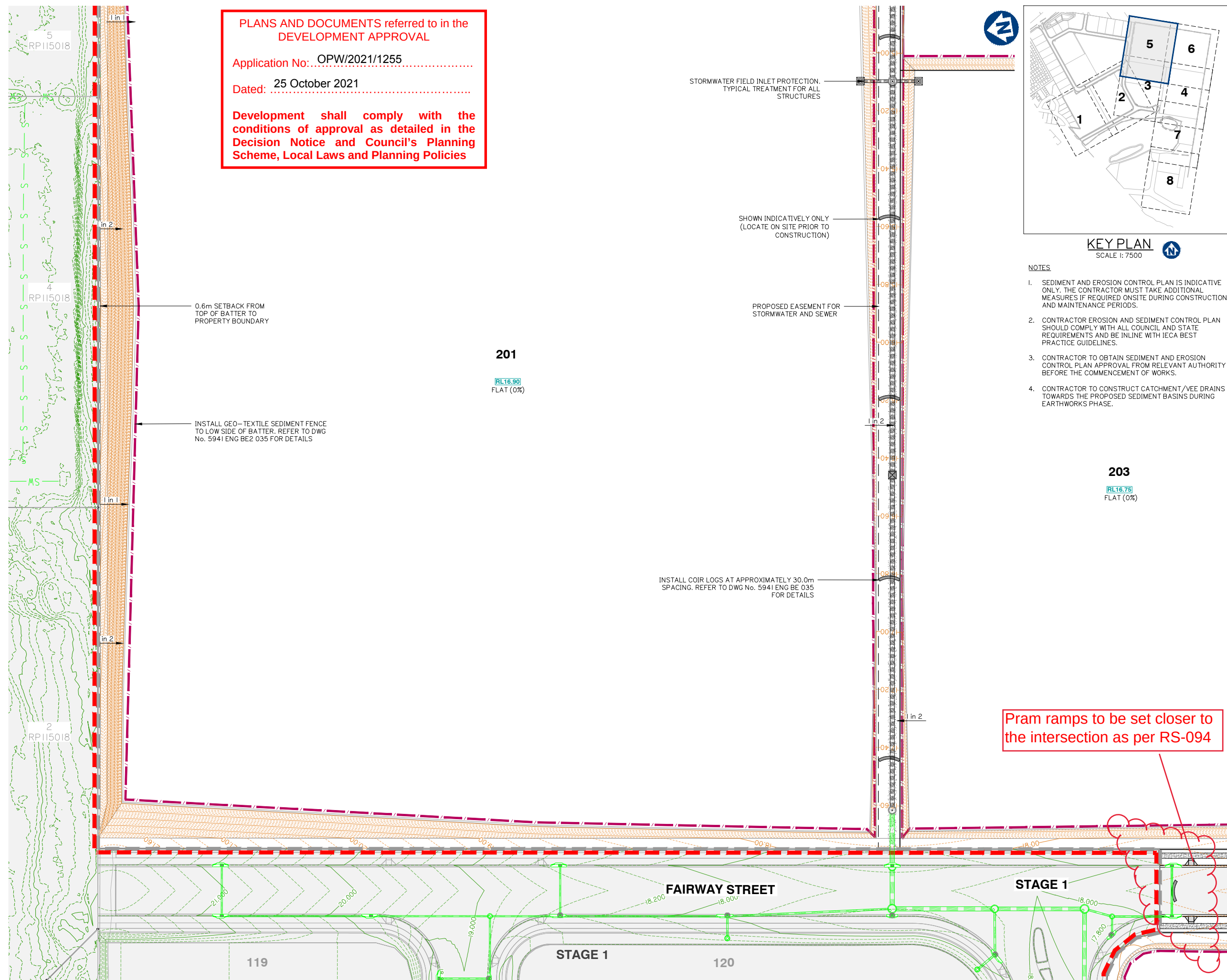
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 053 Rev. No: B



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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

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

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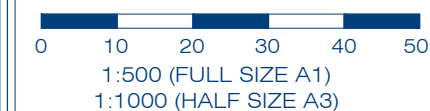
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DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 5 OF 8

SCALE IN METRES



Scale at A1:	1:500
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Designed:	IG
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Drafted:	LAB / IG
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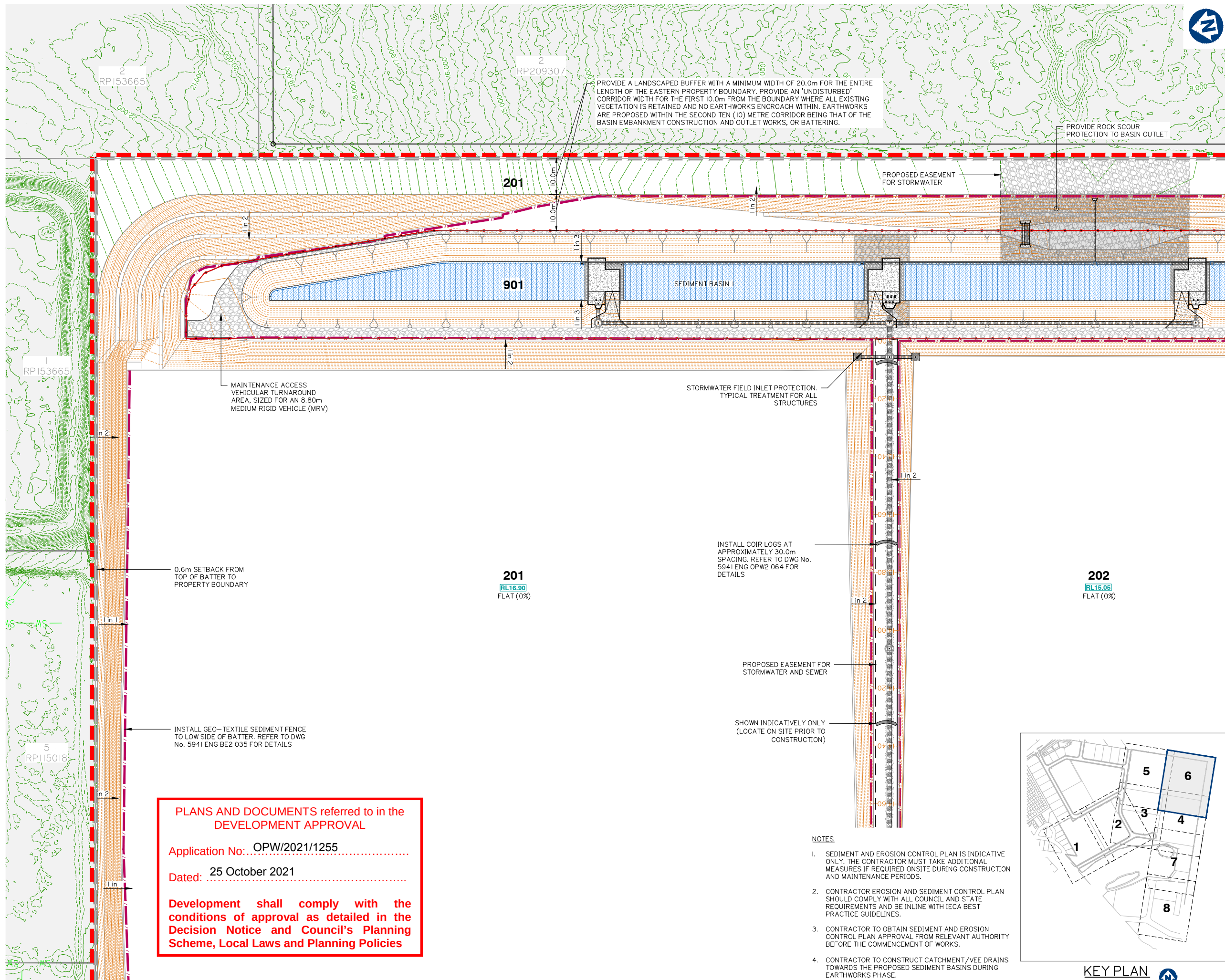
Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	10/09/2021
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Drawing No:	Rev. No:
5941 ENG OPW2 054	B



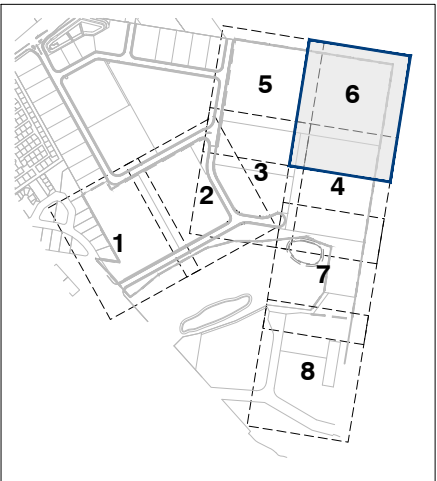
PLANS AND DOCUMENTS referred to in the **DEVELOPMENT APPROVAL**

Application No: **OPW/2021/1255**

Dated: **25 October 2021**

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

- NOTES**
1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ONSITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
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 4. CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.



KEY PLAN
SCALE 1:7500

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 023

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
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 6 OF 8**

Rev	Date	Description	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG

SCALE IN METRES



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

Scale at A1: 1:500

Designed: IG

Drafted: LAB / IG

Approved: MG

RPEQ: 16939

Signed:

Date: 10/09/2021

Drawing No:
5941 ENG OPW2 055

Rev. No:
B

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 024

SEDIMENT AND EROSION CONTROL PLAN SHEET 6 OF 8

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

- PROVIDE ROCK SCOUR PROTECTION TO BASIN OUTLET

SEDIMENT BASIN 2

FUTURE STAGE

RL14.20
FLAT (0%)

FUTURE ROAD

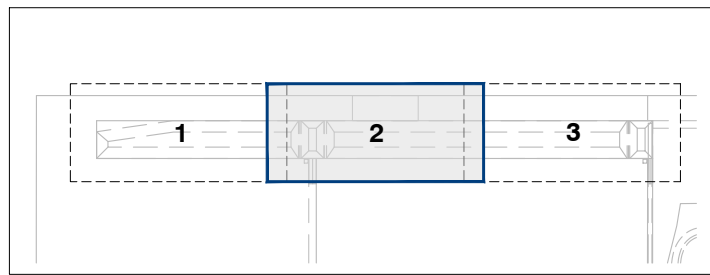
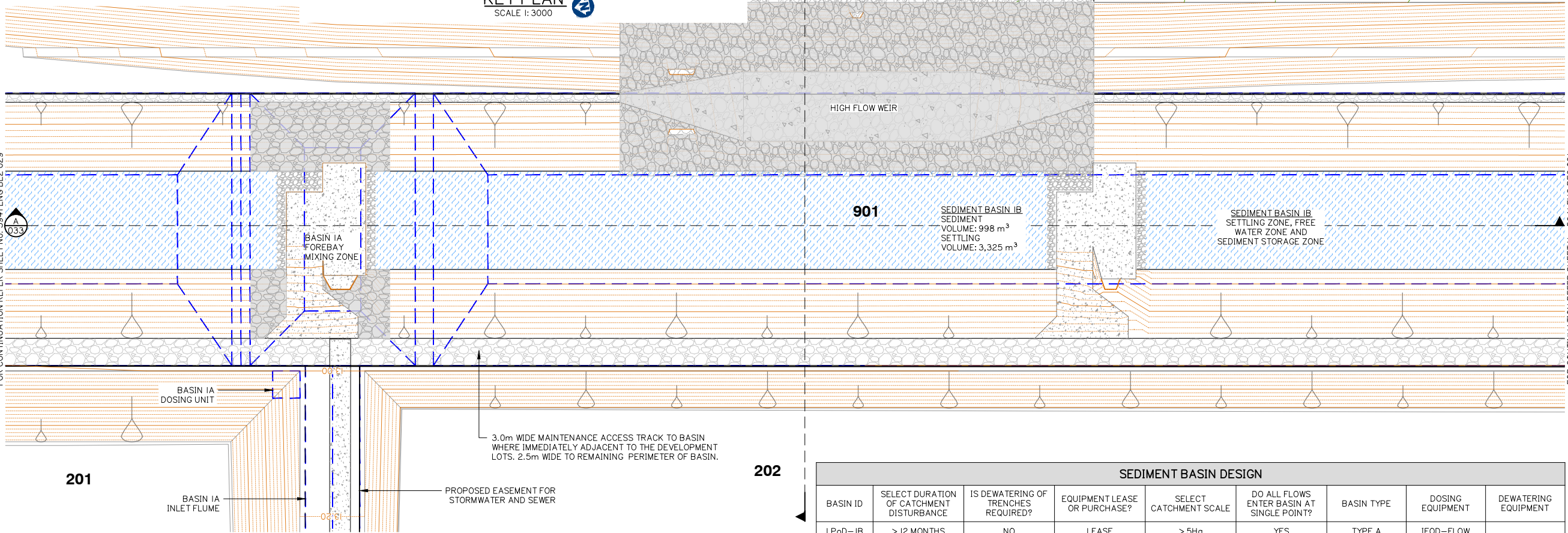
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KEY PLAN
SCALE 1: 7500

Rev. No:
B

NOTES:

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2. 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.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.

KEY PLAN
SCALE 1:3000

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	DEWATERING EQUIPMENT
LPoD-IB	> 12 MONTHS	NO	LEASE	> 5Ha	YES	TYPE A	IFOD-FLOW	

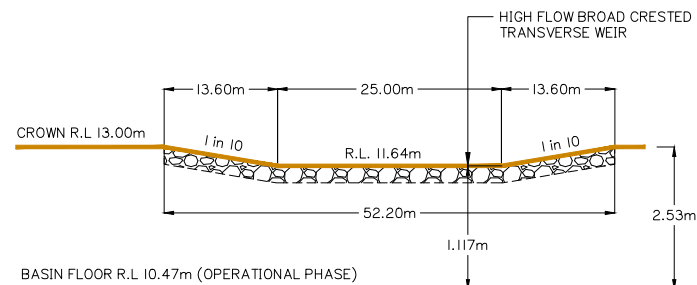
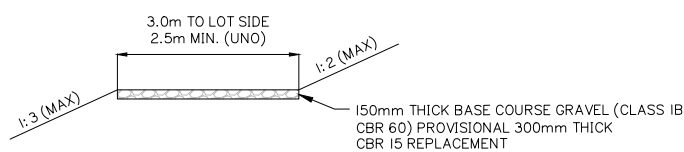
BASIN ID	CATCHMENT AREA	DESIGN EVENT	I_x yr, 24 hr	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	$W:L$	OPTIMUM LOW-FLOW DECANT RATE	SELECTED LOW-FLOW DECANT RATE (Q_d)	MIN SETTLING ZONE VOLUME (Min V_s)	MIN SETTLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
LPoD-IB	(H_a)	($I: X$ YEARS)	(mm/hr)	(°C)	(s/m)	(m)	($I: X$)	(L/s/Ha)	(L/s/Ha)	(m^3)	(m^2)	VOLUME
LPoD-IB	13.352	I	4.53	20	11150	1.82	3.1	9	9	3325	1358	

BASIN ID	SETTLING ZONE		FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)				
	ACTUAL SETTLING ZONE VOLUME (V_s)	ACTUAL SETTLING ZONE AREA (A_s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
LPoD-IB	(m^3)	(m^2)	(m/s)	(m)	(m^3)	(m^3)	(m)	($I: X$)	(m)	(m)	(m)
LPoD-IB	3325	1827	0.008	0.35	333	998	0.83	3	29.74	92.19	3.00

BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	SPILLWAY									
		C ₁₀	C	t _c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL		
					(mm/hr)	(m ³ /s)	(m)	(m)	(m)	(m)		
LPoD—IB	> 12 MONTHS	1: 50	0.80	0.92	25.00	143.00	4.95	0.20	25.00	11.64	12.29	

BASIN ID	FLOW RATE		FLUME DESIGN PARAMETERS				VELOCITY CHECK			OUTPUT PARAMETERS		
	BASIN DESIGN FLOW (m^3/s)	FLUME DESIGN FLOW (m^3/s)	BASE WIDTH (m)	SLIDE SLOPE ($I: x$)	LONGITUDINAL SLOPE (m/m)	FLUME LINING	MAX ALLOWABLE VELOCITY (m/s)	MANNINGS ROUGHNESS	VELOCITY (m/s)	FLOW DEPTH (m)	FLUME DEPTH (m)	CALCULATED FLOW (m^3/s)
LPoD-IB	4.95	7.43	4.00	2.00	0.01	CONCRETE	5.00	0.013	3.817	0.42	0.57	7.76

BASIN ID	SETTLING ZONE (incl. sediment storage)				FOREBAY				HYDRAULIC CONTROLS						
	VOLUME (m^3)	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m^3)	LENGTH (m)	WIDTH (m)	DEPTH (m)	SPILLWAY CREST LENGTH (m)	SPILLWAY CREST (RL)	EMBANKMENT (RL)	CREST (RL)	FLUME BASE WIDTH (m)	FLUME BATTERS ($X: I$)	FLUME DEPTH (m)
LPoD-IB	4323.1	92.2	29.7	3.00	822.44	9.2	29.7	3.00	25.0	11.64	12.29	11.84	4.0	2.0	0.6

WEIR / SPILLWAY - TYPICAL ELEVATION
N.T.S.MAINTENANCE ACCESS TRACK - TYPICAL SECTION
N.T.S.

UNO DENOTES 'UNLESS NOTED OTHERWISE'

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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Client:

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -ISSUED FOR APPROVAL
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 2 OF 4

Rev.	Date	Description	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed: IG

Drafted: LAB / IG

Approved: MG

RPEQ: 16939

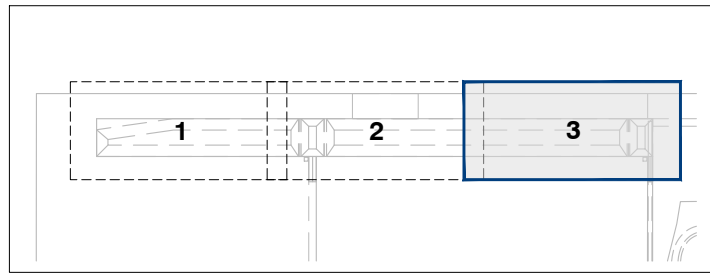
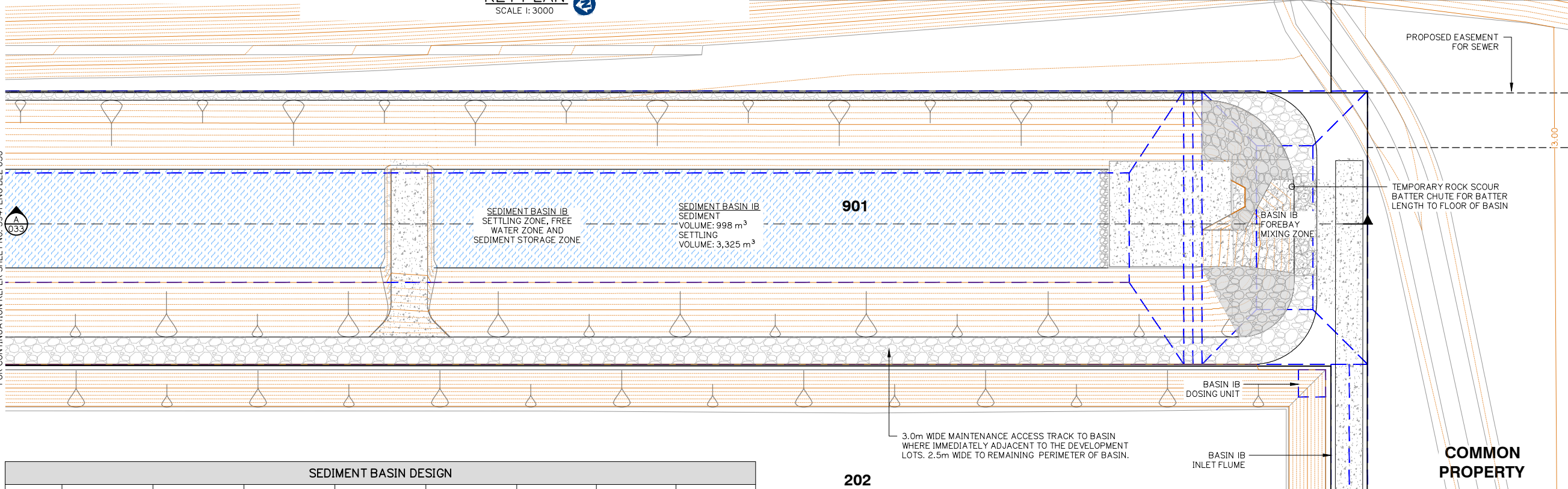
Signed:

Date: 10/09/2021

Drawing No: 5941 ENG OPW2 059
Rev. No: B

NOTES:

1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ON SITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
2. 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.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.

KEY PLAN
SCALE 1:3000

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	DEWATERING EQUIPMENT
LPoD-IB	> 12 MONTHS	NO	LEASE	> 5Ha	YES	TYPE A	IFOD-FLOW	

BASIN ID	CATCHMENT AREA	DESIGN EVENT	1 _x yr, 24 hr	WATER TEMPERATURE	K _s	SETTLING ZONE DEPTH (D _s)	W: L	OPTIMUM LOW-FLOW DECAN RATE	SELECTED LOW-FLOW DECAN RATE (Q _d)	MIN SETTLING ZONE VOLUME (Min V _s)	MIN SETTLING ZONE SURFACE AREA (Min A _s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	
LPoD-IB	13.352	1	4.53	20	11150	1.82	3.1	9	9	3325	1358	VOLUME

BASIN ID	SETTLING ZONE		SCOUR VELOCITY	FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETTLING ZONE VOLUME (V _s)	ACTUAL SETTLING ZONE AREA (A _s)		DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
	(m³)	(m²)	(m/s)	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)
LPoD-IB	3325	1827	0.008	0.35	333	998	0.83	3	29.74	92.19	3.00

BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C ₁₀	C	t _c	SPILLWAY					
						I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m³/s)	(m)	(m)	(m)	(m)
LPoD-IB	> 12 MONTHS	1: 50	0.80	0.92	25.00	143.00	4.95	0.20	25.00	11.64	12.29

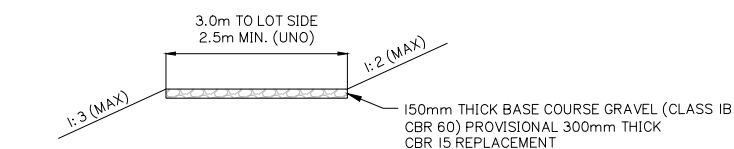
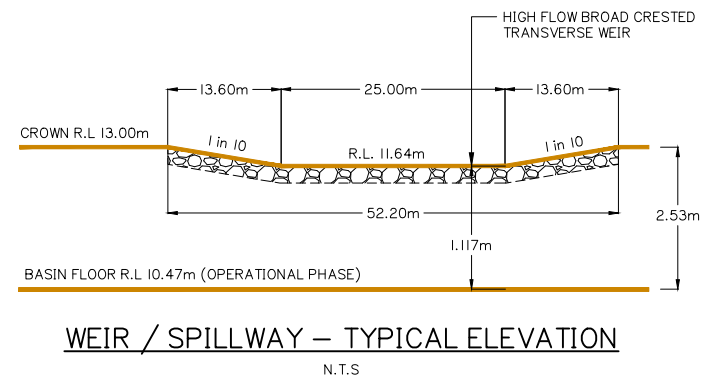
BASIN ID	FLOW RATE		FLUME DESIGN PARAMETERS				VELOCITY CHECK			OUTPUT PARAMETERS		
	BASIN DESIGN FLOW (m³/s)	FLUME DESIGN FLOW (m³/s)	BASE WIDTH (m)	SLIDE SLOPE (1: x)	LONGITUDINAL SLOPE (m/m)	FLUME LINING	MAX ALLOWABLE VELOCITY (m/s)	MANNINGS ROUGHNESS	VELOCITY (m/s)	FLOW DEPTH (m)	FLUME DEPTH (m)	CALCULATED FLOW (m³/s)
			b	x	s					d	y	
LPoD-IB	4.95	7.43	4.00	2.00	0.01	CONCRETE	5.00	0.013	3.817	0.42	0.57	7.76

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)	CREST (RL)	FLUME BASE WIDTH (m)	FLUME BATTERS (X: 1)	FLUME DEPTH (m)
LPoD-IB	4323.1	92.2	29.7	3.00	822.44	9.2	29.7	3.00	25.0	11.64	12.29	11.84	4.0	2.0	0.6

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning PoliciesMAINTENANCE ACCESS TRACK - TYPICAL SECTION
N.T.S. UNO DENOTES 'UNLESS NOTED OTHERWISE'

Client:



Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 3 OF 4

ISSUE	DATE	DESCRIPTION	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES

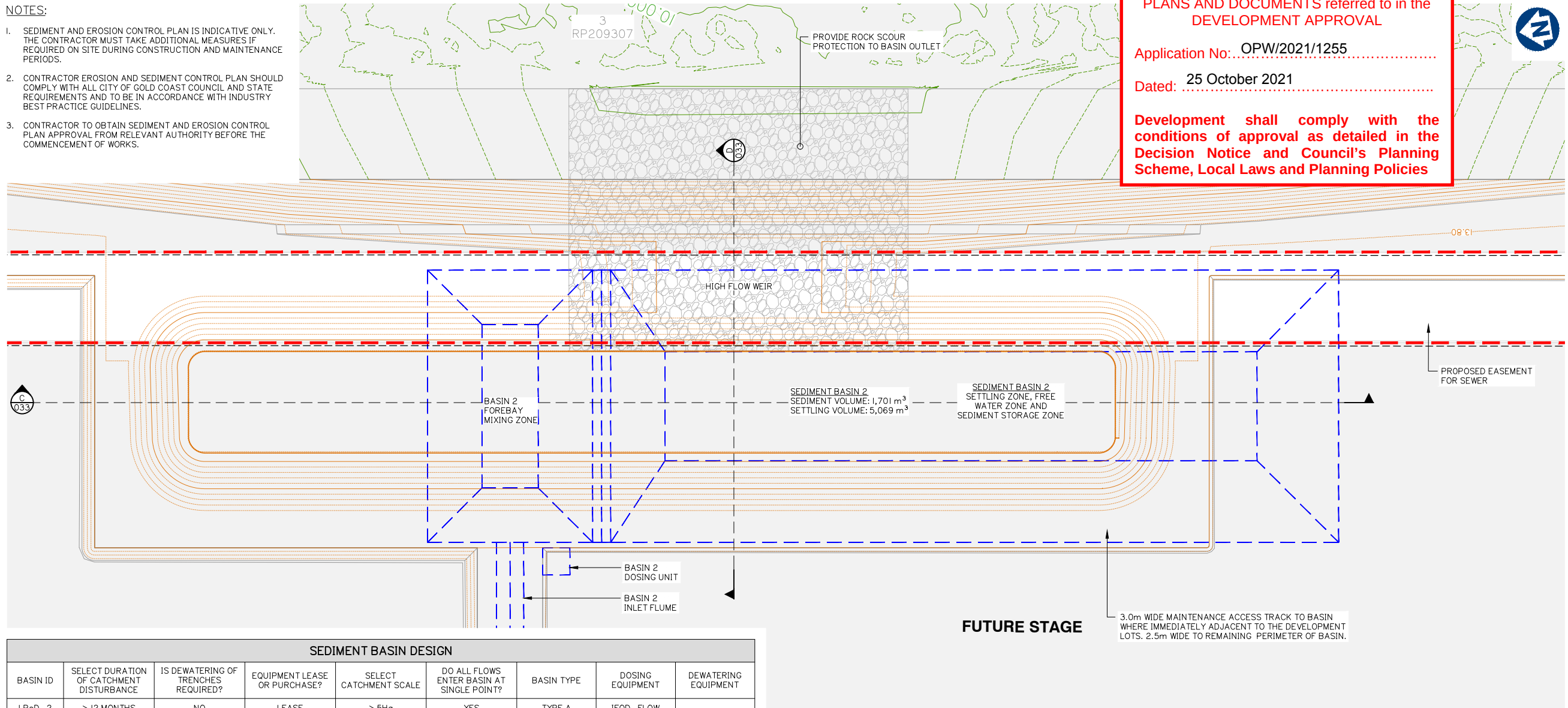
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1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 060
Rev. No: B

1. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ON SITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
2. 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.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.



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	DEWATERING EQUIPMENT
LPoD-2	> 12 MONTHS	NO	LEASE	> 5Ha	YES	TYPE A	IFOD-FLOW	

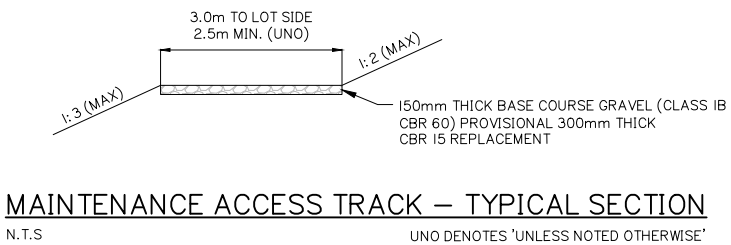
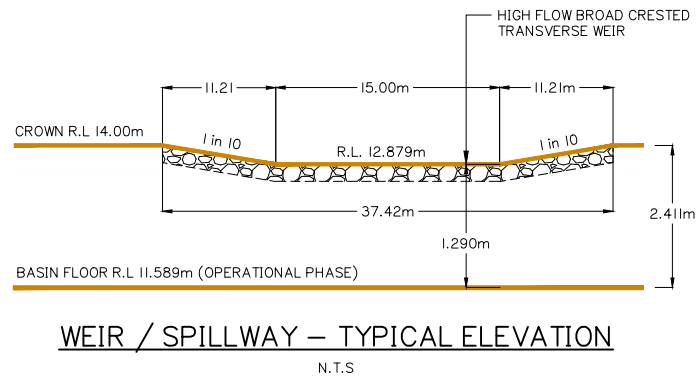
BASIN ID	CATCHMENT AREA	DESIGN EVENT	$I_{x \text{ yr}, 24 \text{ hr}}$	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W: L	OPTIMUM LOW-FLOW DECAT RATE	SELECTED LOW-FLOW DECAT RATE (Q_A)	MIN SETTLING ZONE VOLUME (Min V_s)	MIN SETTLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	
LPoD-2	9.904	I	4.53	20	11150	1.76	3	9	9	2434	994	VOLUME

	SETTLING ZONE				FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
BASIN ID	ACTUAL SETTLING ZONE VOLUME (V _s)	ACTUAL SETTLING ZONE AREA (A _s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH	
	(m³)	(m²)	(m/s)	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)	
LPoD-2	2434	1383	0.007	0.35	243	730	0.89	3	26.75	80.25	3.00	

BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C ₁₀	C	tc	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m³/s)	(m)	(m)	(m)	(m)
LPoD-2	> 12 MONTHS	1: 50	0.80	0.92	25	143	3.62	0.20	15.0	12.879	13.529

	Flow Rate		Flume Design Parameters				Velocity Check			Output Parameters		
Basin ID	Basin Design Flow (m³/s)	Flume Design Flow (m³/s)	Base Width (m)	Slide Slope (1: x)	Longitudinal Slope (m/m)	Flume Lining	Max Allowable Velocity (m/s)	Mannings Roughness	Velocity (m/s)	Flow Depth (m)	Flume Depth (m)	Calculated Flow (m³/s)
			b	x	s					d	y	
LPoD-2	3.62	5.43	3.00	2.00	0.01	Concrete	5.00	0.013	3.515	0.42	0.57	5.67

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)	CREST (RL)	FLUME BASE WIDTH (m)	FLUME BATTERS (X: 1)	FLUME DEPTH (m)
LPoD-2	3164.1	80.3	26.8	3.00	644.01	8.0	26.8	3.00	15.0	12.88	13.53	13.08	3.0	2.0	0.6



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

planning | environment | landscape | engineering | survey

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

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD

VANTAGE YATALA STAGE 2

50 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

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

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 4 OF 4

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MO
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHN

1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed:	IG
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Drafted: LAB / IG

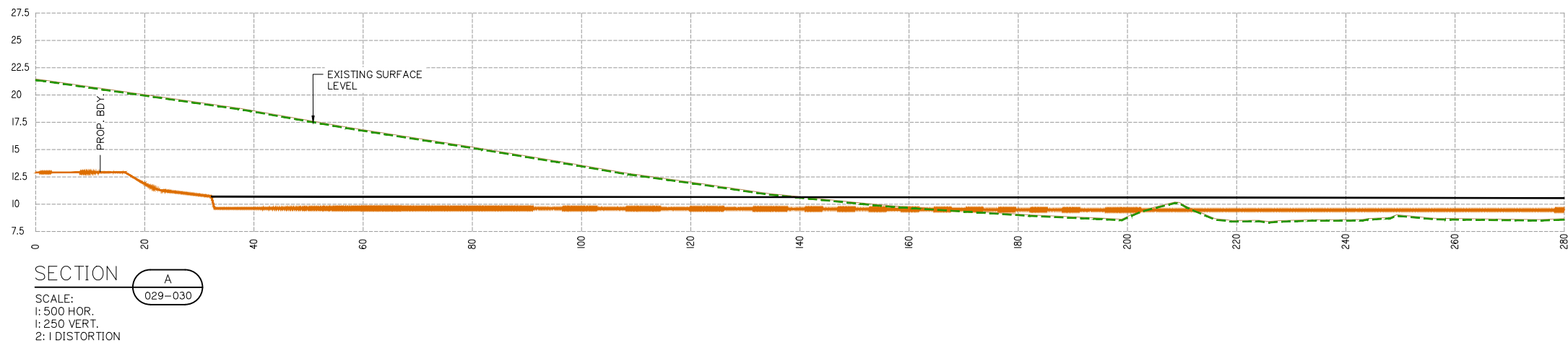
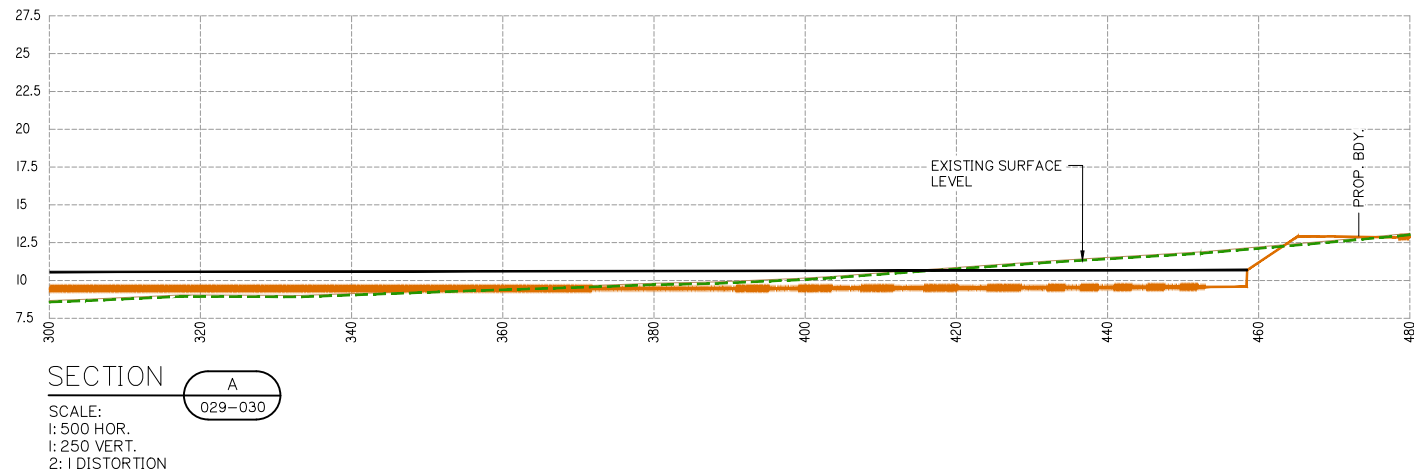
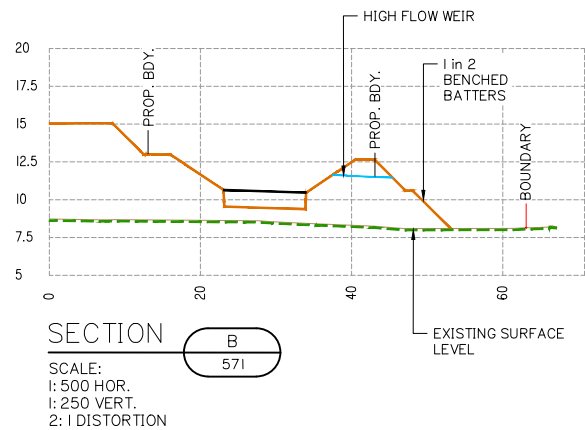
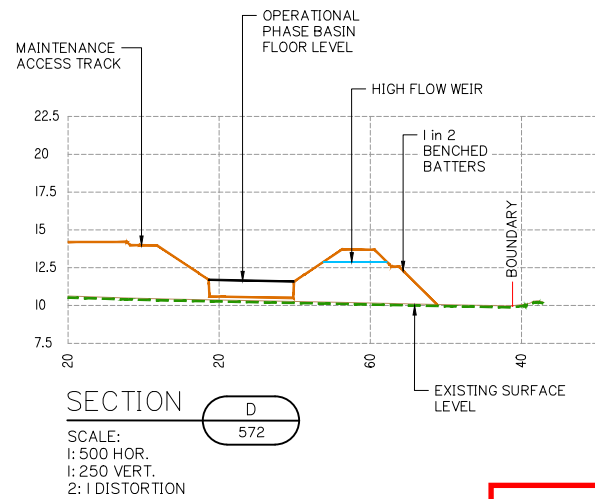
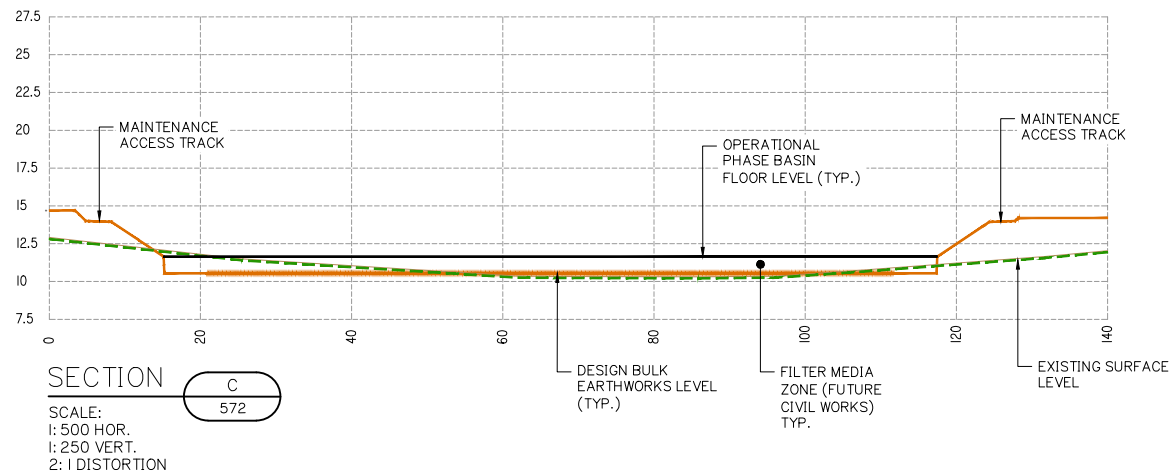
Approved:	MG
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RPEQ:	16939
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Signed: 

Drawing No:
5941 ENG OPW2 061

Rev. No:
B



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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

NOTE:

I. SEDIMENT ACCUMULATION DEPTHS, FREE WATER ZONES, AND SETTLEMENT DEPTHS ARE OMITTED FROM CROSS SECTIONS FOR CLARITY. REFER TO CALCULATION TABLES ON DRAWINGS 5941 ENG OPW2 058-061

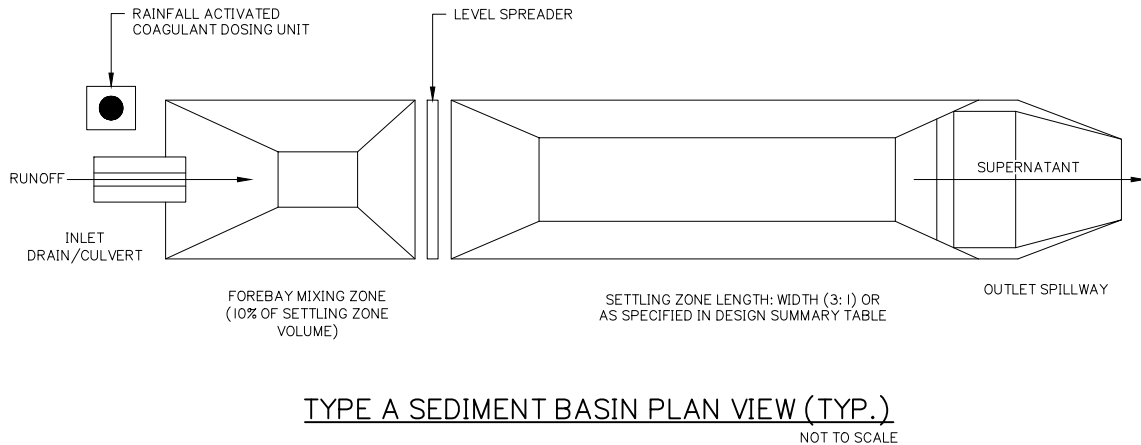
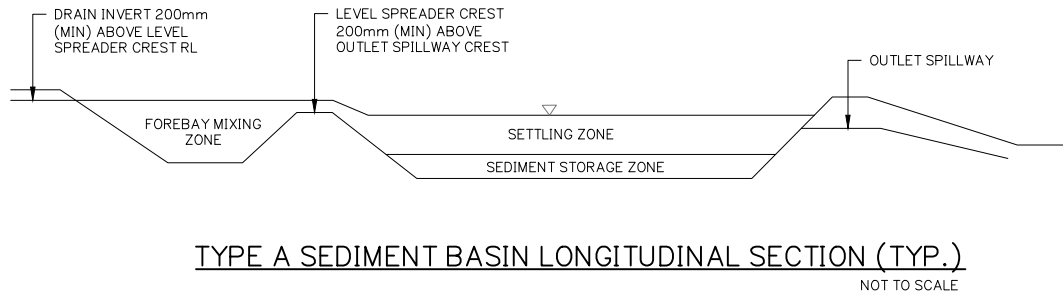
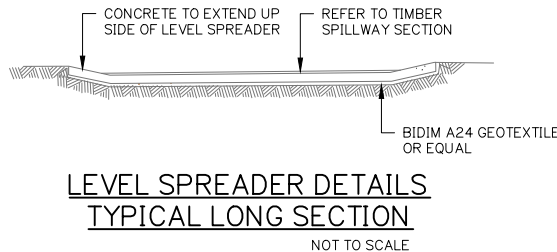
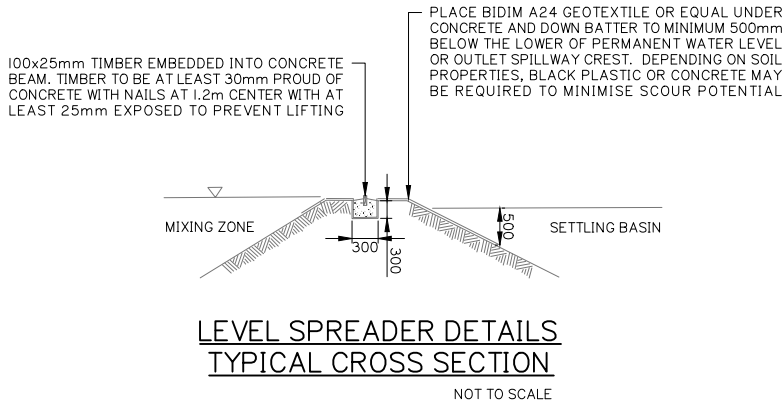
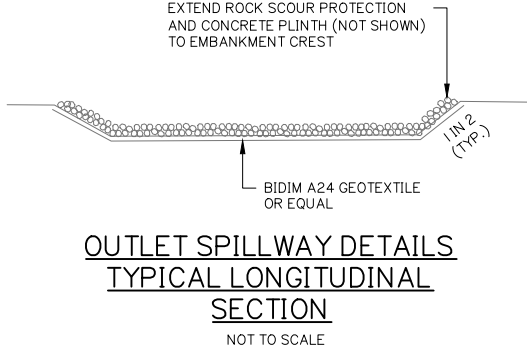
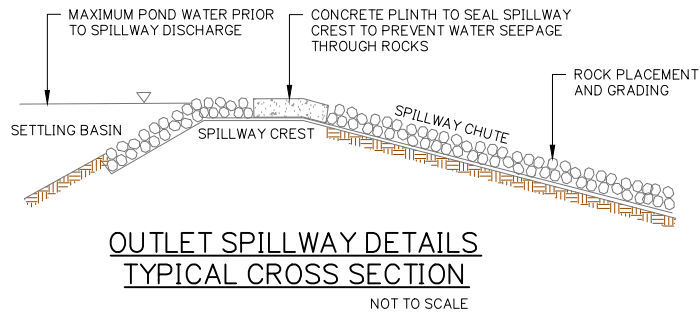
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

0 5 10 15 20 25

1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1:	1:250
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN TYPICAL
SECTIONS

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

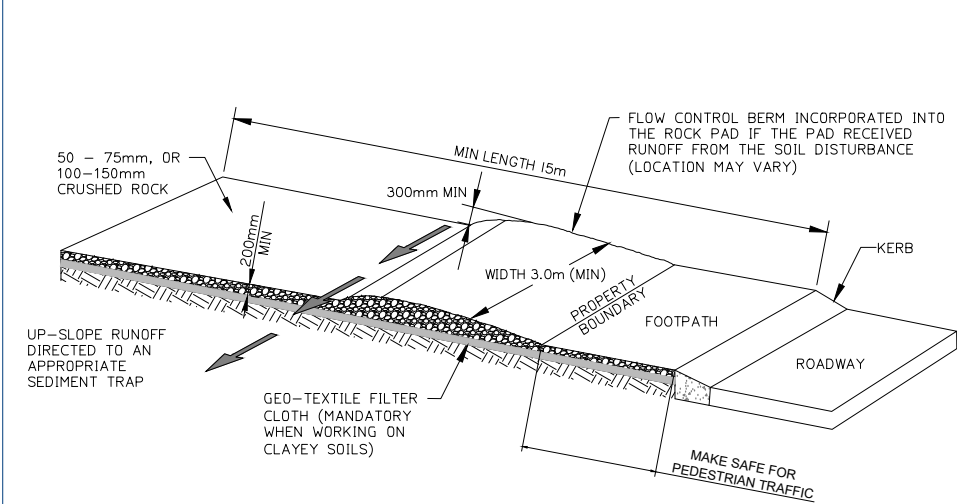


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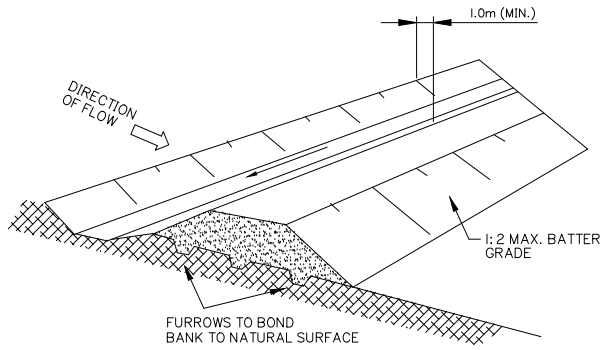
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

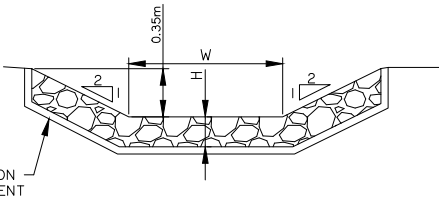
Drawing No: 5941 ENG OPW2 063 Rev. No: B



ENTRY/EXIT PAD FOR CONSTRUCTION SITE
NOT TO SCALE

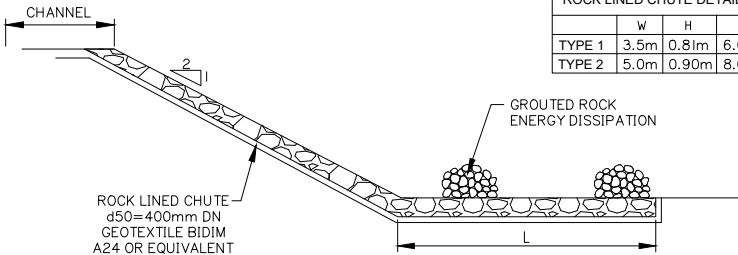


DIVERSION DRAIN
NOT TO SCALE

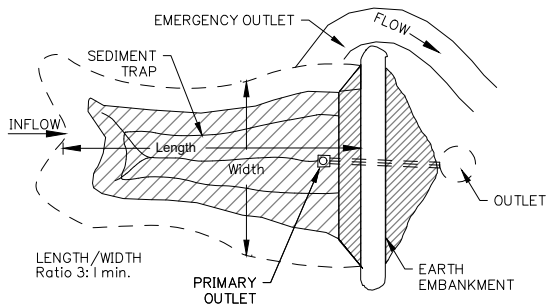


ROCK LINED CHUTE
NOT TO SCALE

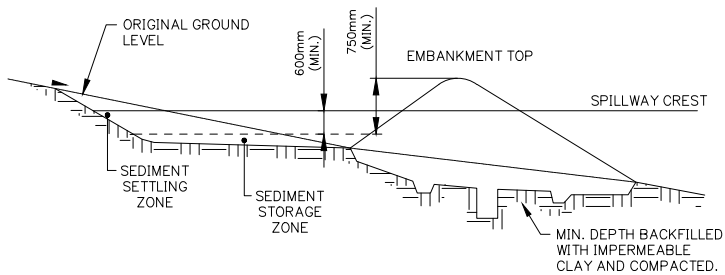
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TYPE 2	5.0m	0.90m	8.0m



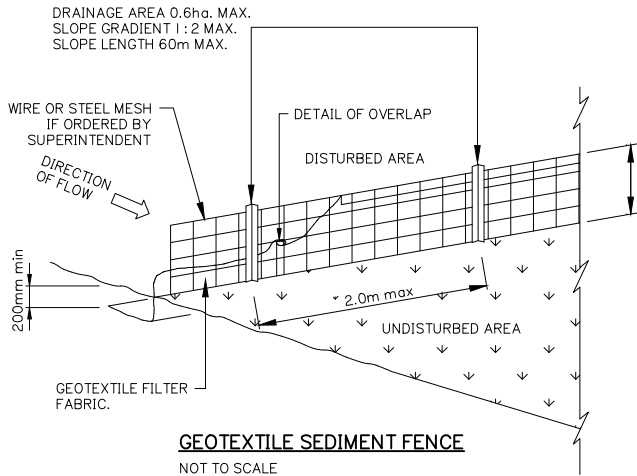
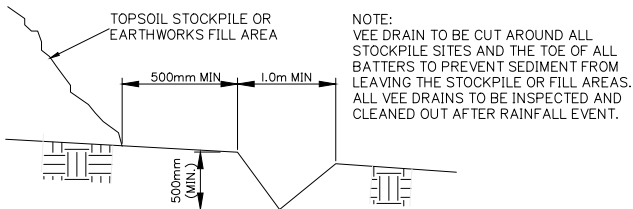
ROCK LINED CHUTE
NOT TO SCALE



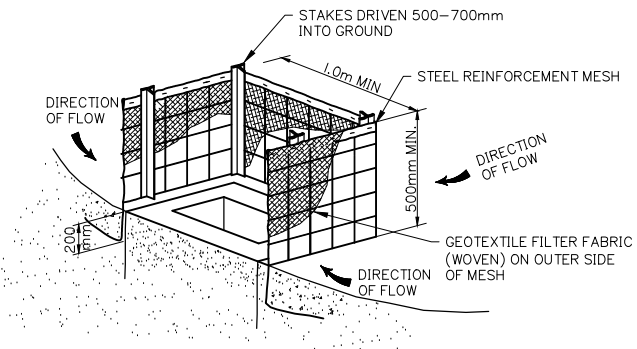
TYPICAL SEDIMENT BASIN
NOT TO SCALE



TYPICAL SECTION VEE DRAIN
NOT TO SCALE



GEOTEXTILE SEDIMENT FENCE
NOT TO SCALE



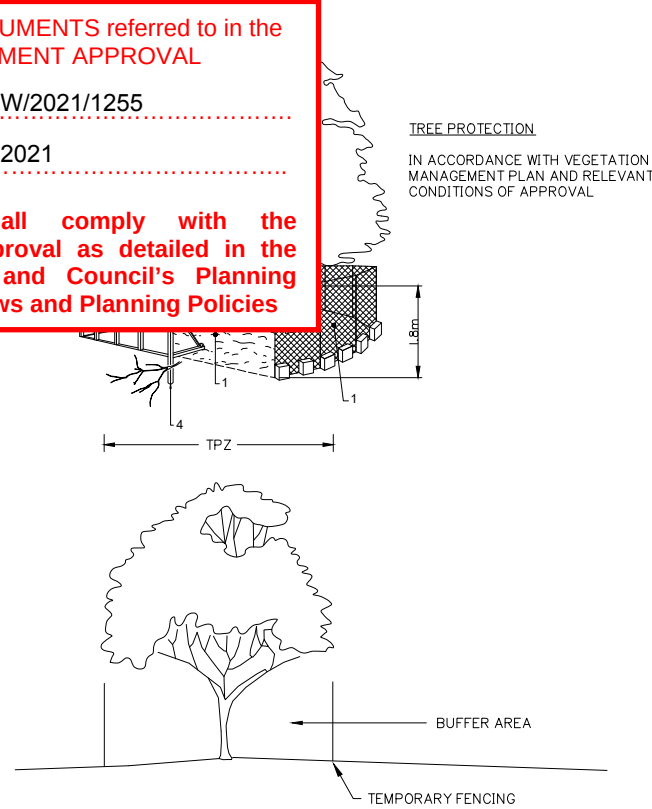
STORMWATER INLET - SEDIMENT TRAP
NOTE:
FOURTH SIDE OF TRAP NOT SHOWN FOR CLARITY

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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FENCING AS PER AS: 4970

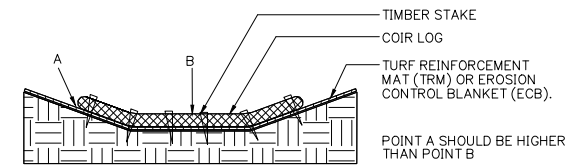
1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF 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

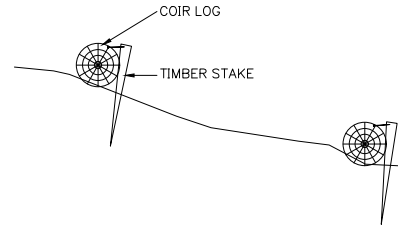
THE RADIUS OF THE TPZ IS CALCULATED FOR EACH TREE BY MULTIPLYING ITS DBH X 12 = TRUNK DIAMETER MEASURED AT 1.4M ABOVE GROUND. RADIUS IS MEASURED FROM THE CENTRE OF THE STEM AT GROUND LEVEL.

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.

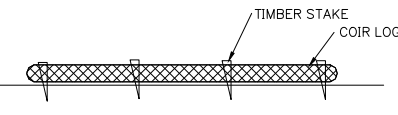
PROTECTIVE FENCING
NOT TO SCALE



PROPER PLACEMENT OF COIR LOG IN DRAINAGE PATH
NOT TO SCALE



COIR LOG AND TIMBER STAKES STABILISING SLOPE
NOT TO SCALE



PROPER PLACEMENT OF COIR LOG IN SLOPE
NOT TO SCALE

Client:



Project:

**VANTAGE YATALA
STAGE 2**

Site Address:

**60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207**

*THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR*

RPD:

Lot: 501
Plan: SP295994
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	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG

**SCALE NOT
APPLICABLE**

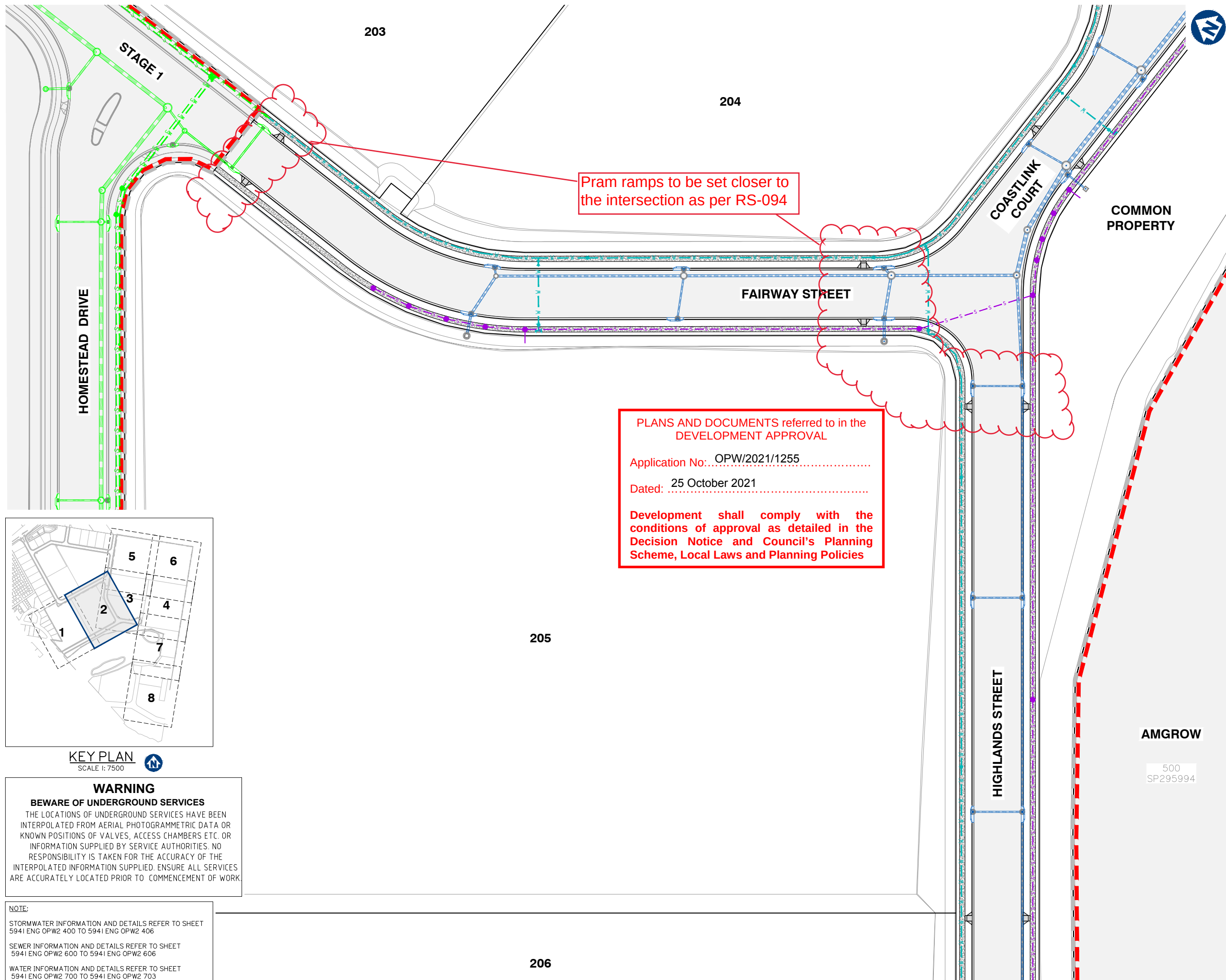
Scale at A1:

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 064
Rev. No: B



Pram ramps to be set closer to the intersection as per RS-094



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
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PSM:	-
RL:	-

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DRAWING TITLE

OVERALL
SERVICES LAYOUT
PLAN SHEET 2 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



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

Scale at A1:	1:500
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW2 301

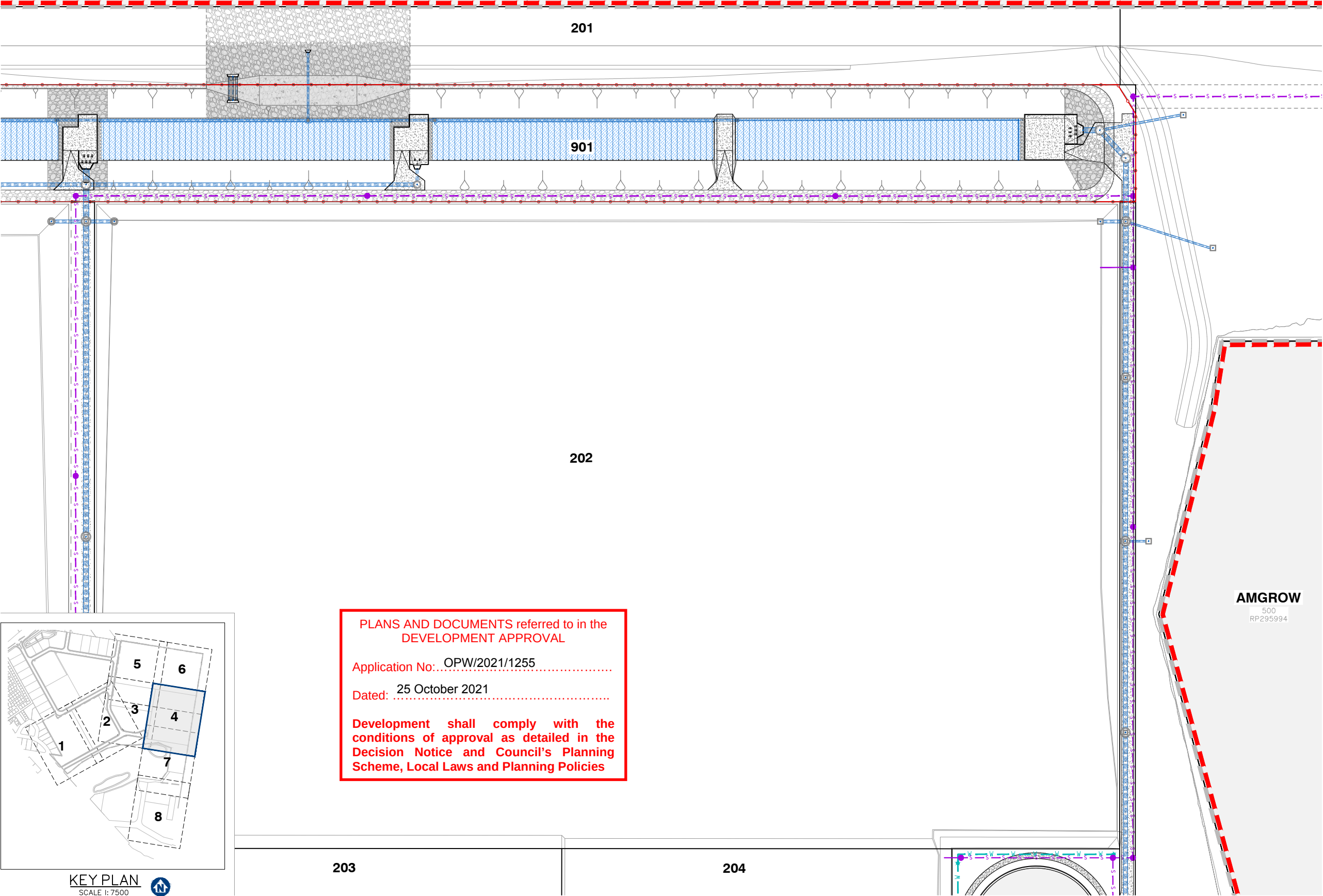
Rev. No:
B

WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, ACCESS CHAMBERS ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.

NOTE:
STORMWATER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 400 TO 5941 ENG OPW2 406
SEWER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 600 TO 5941 ENG OPW2 606
WATER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 700 TO 5941 ENG OPW2 703



3
RP209307



FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 305

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 306



KEY PLAN
SCALE 1: 7500

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255
Dated: 25 October 2021

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

AMGROW
500
RP295994

Client:
FRASERS PROPERTY
FRASERS PROPERTY (AUSTRALIA) PTY. LTD.

Project:
VANTAGE YATALA STAGE 2

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

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

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

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DRAWING TITLE
OVERALL SERVICES LAYOUT PLAN SHEET 4 OF 8

Issue	Date	Original Issue	Description	LAB	MG	DRN	CHK
B	10/09/21	INFORMATION REQUEST RESPONSE					
A	30/07/21	ORIGINAL ISSUE					

SCALE IN METRES
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1:1000 (HALF SIZE A3)

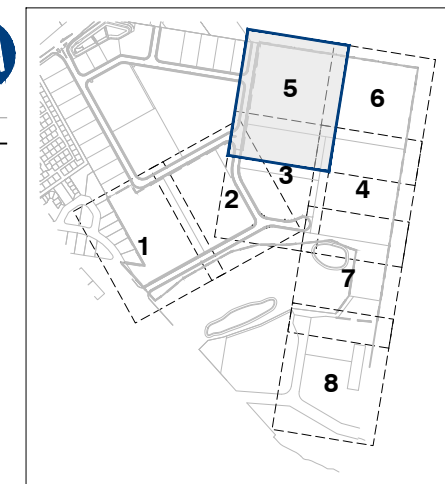
Scale at A1:	1:500
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 303
Rev. No: B

203

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

Pram ramps to be set closer to the intersection as per RS-094



KEY PLAN
SCALE 1: 7500

WARNING

BWARE OF UNDERGROUND SERVICES

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NOTE:

STORMWATER INFORMATION AND DETAILS REFER TO SHEET
594I ENG OPW2 400 TO 594I ENG OPW2 406

SEWER INFORMATION AND DETAILS REFER TO SHEET
594I ENG OPW2 600 TO 594I ENG OPW2 606

WATER INFORMATION AND DETAILS REFER TO SHEET
594I ENG OPW2 700 TO 594I ENG OPW2 703



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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BE PRINTED IN COLOUR

RPD:

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

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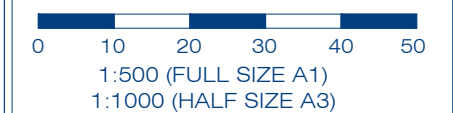
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DRAWING TITLE
OVERALL SERVICES
LAYOUT PLAN SHEET
5 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



Scale at A1:	1:500
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Designed:	IG
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Drafted:	LAB / IG
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	10/09/2021
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Drawing No:	Rev. No:
5941 ENG OPW2 304	B

2
RP153665

2
RP209307



1
RP153665

5
RP115018

MS
MS — MS

MS
MS — MS

201

901

201

202

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: OPW/2021/1255

Dated: 25 October 2021

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

NOTE:

STORMWATER INFORMATION AND DETAILS REFER TO SHEET
5941 ENG OPW2 400 TO 5941 ENG OPW2 406

SEWER INFORMATION AND DETAILS REFER TO SHEET
5941 ENG OPW2 600 TO 5941 ENG OPW2 606

WATER INFORMATION AND DETAILS REFER TO SHEET
5941 ENG OPW2 700 TO 5941 ENG OPW2 703

WARNING

BEWARE OF UNDERGROUND SERVICES

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INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO
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ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.



KEY PLAN
SCALE 1:7500



FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 304

OVERALL SERVICES LAYOUT PLAN SHEET 6 OF 8



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

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DRAWING TITLE

OVERALL SERVICES LAYOUT
PLAN SHEET 6 OF 8

Issue	Date	Description	LAB	MG	CHK
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	

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:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

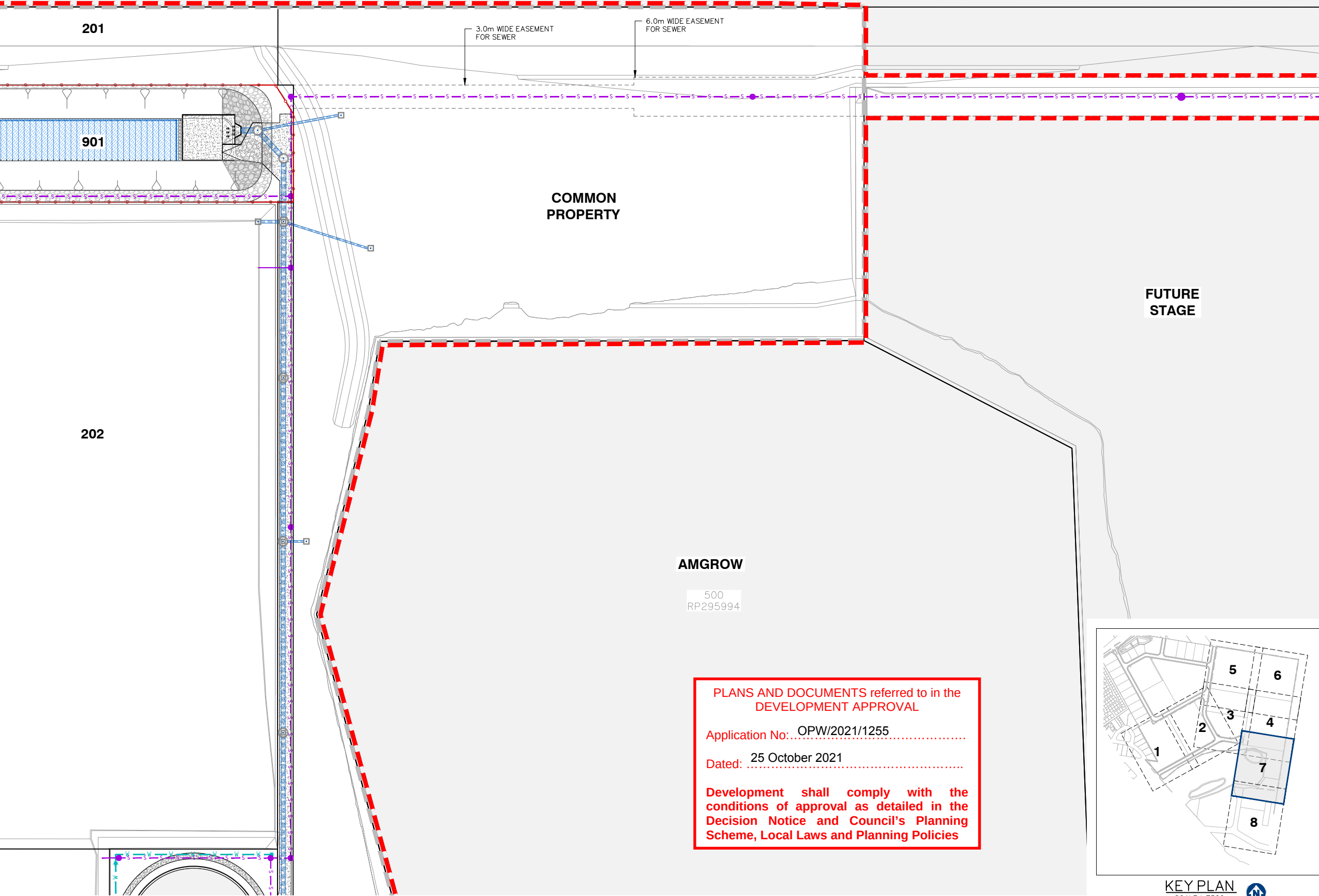
Drawing No: 5941 ENG OPW2 305 Rev. No: B

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 303

WARNING
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NOTE:
STORMWATER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 400 TO 5941 ENG OPW2 406
SEWER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 600 TO 5941 ENG OPW2 606
WATER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 700 TO 5941 ENG OPW2 703

3
RP209307

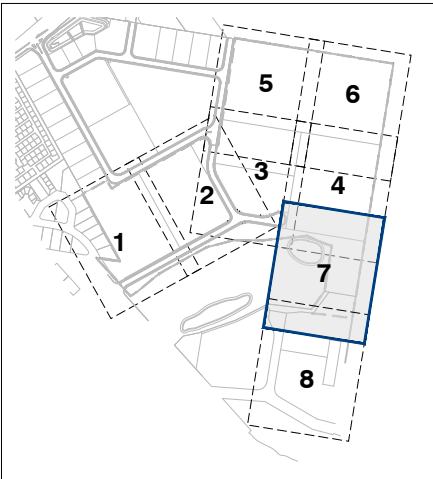


PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

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DRAWING TITLE

OVERALL SERVICES LAYOUT
PLAN SHEET 7 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	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:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW2 306

Rev. No:
B

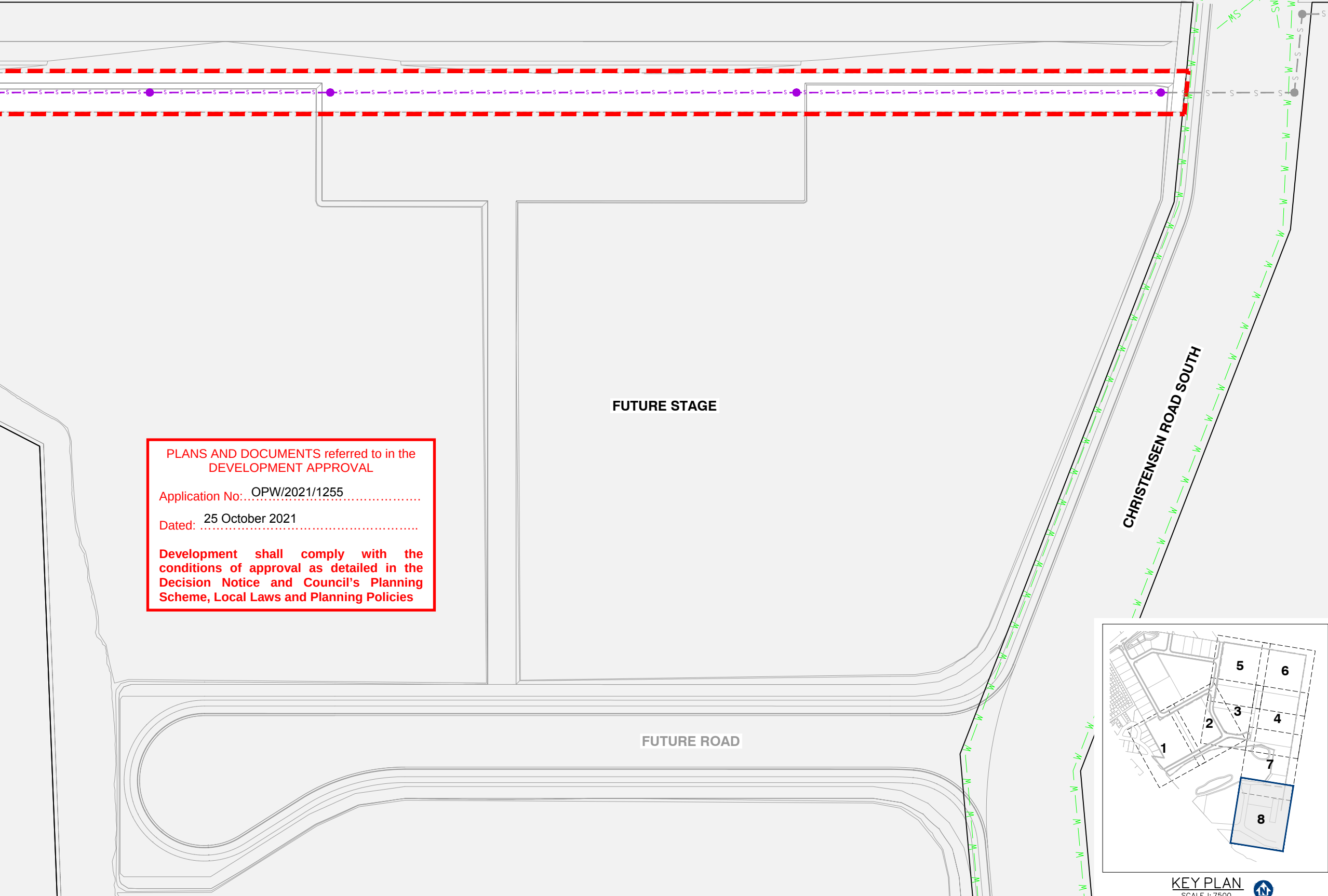
OVERALL SERVICES LAYOUT PLAN SHEET 7 OF 8

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 303

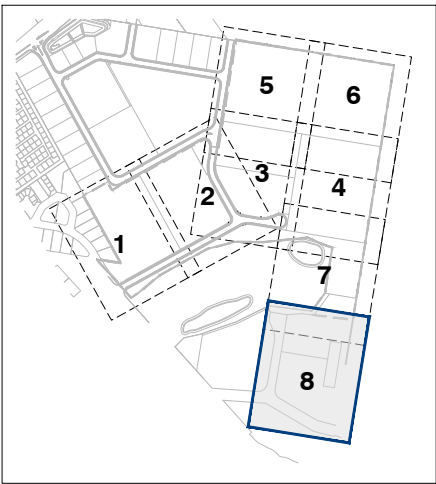
WARNING
BEWARE OF UNDERGROUND SERVICES
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NOTE:
STORMWATER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 400 TO 5941 ENG OPW2 406
SEWER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 600 TO 5941 ENG OPW2 606
WATER INFORMATION AND DETAILS REFER TO SHEET 5941 ENG OPW2 700 TO 5941 ENG OPW2 703

3
RP209307



PLANS AND DOCUMENTS referred to in the **DEVELOPMENT APPROVAL**
Application No: OPW/2021/1255
Dated: 25 October 2021
Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



KEY PLAN
SCALE 1: 7500

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

Client:
FRASERS PROPERTY
FRASERS PROPERTY (AUSTRALIA) PTY. LTD.

Project:
VANTAGE YATALA STAGE 2

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

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

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

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DRAWING TITLE
OVERALL SERVICES LAYOUT PLAN SHEET 8 OF 8

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

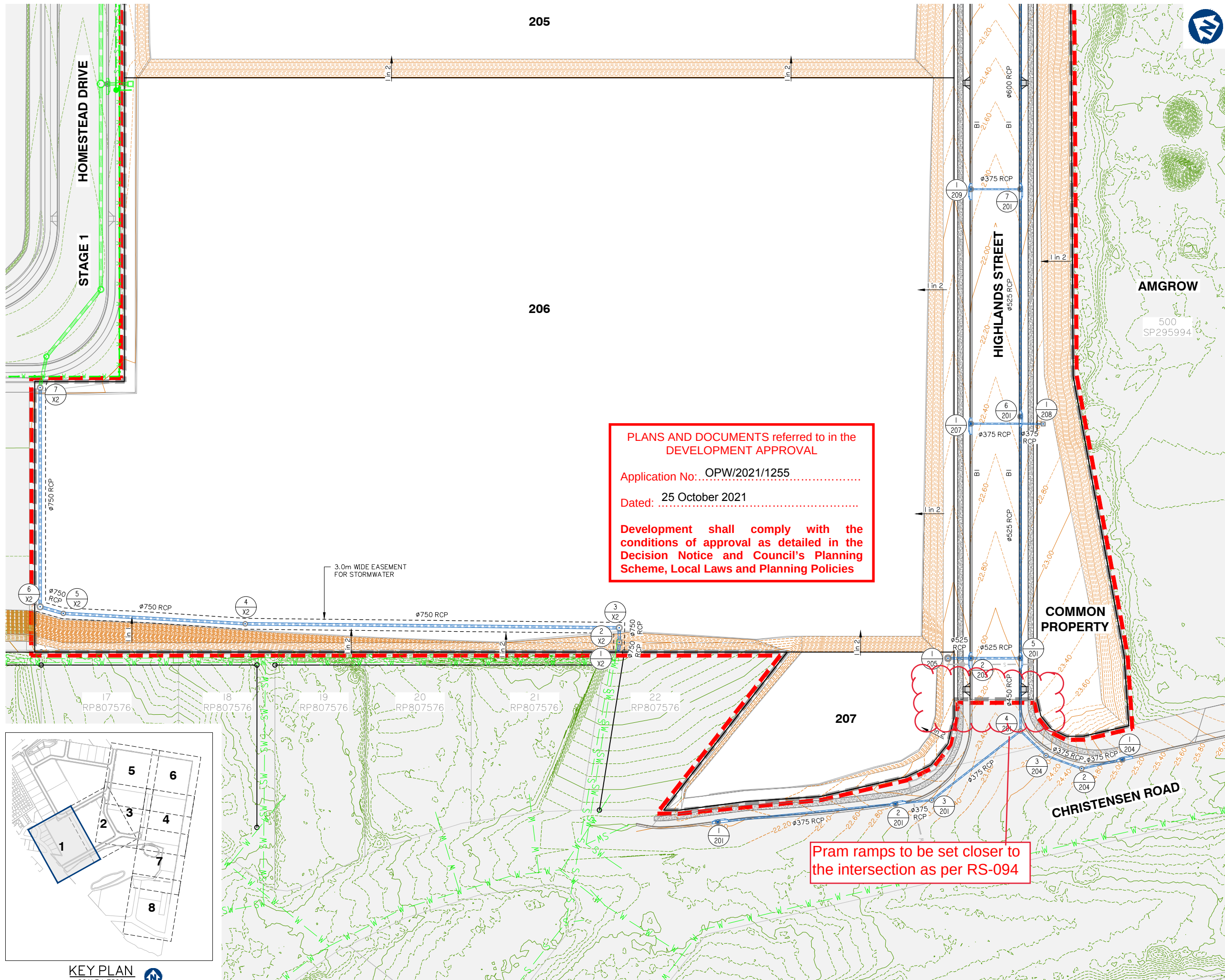


1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 307 Rev. No: B



Client:



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(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

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

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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 1 OF 7

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	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
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Drafted:	LAB / IG
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Approved:	MG
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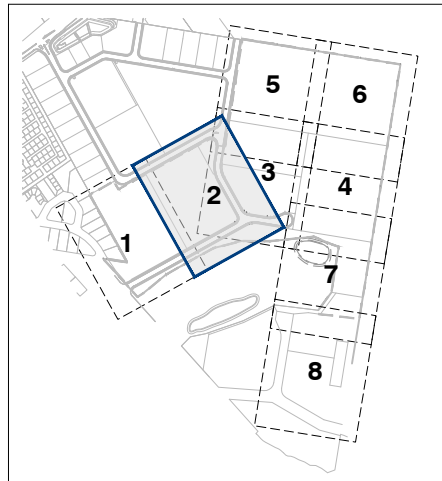
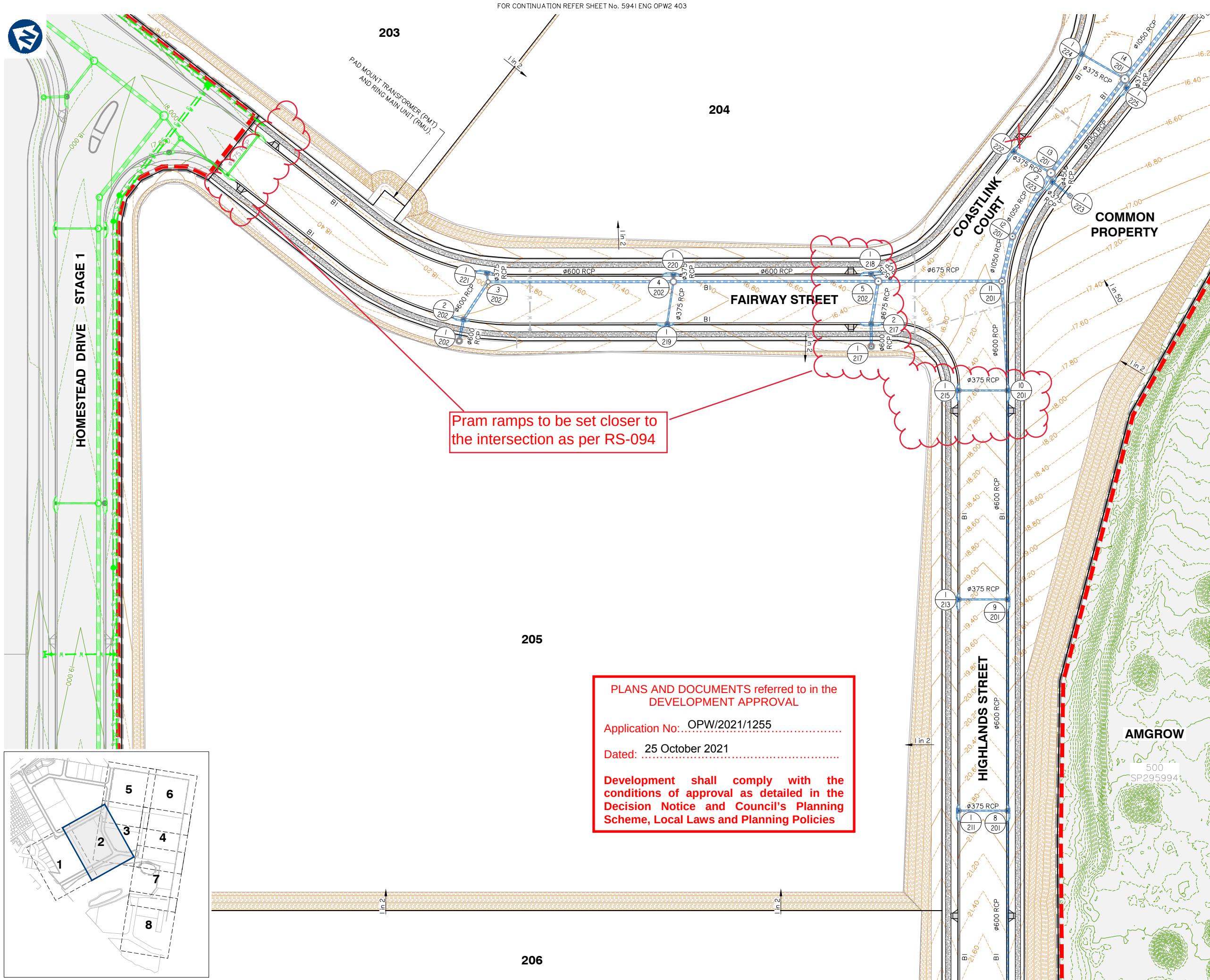
RPEQ:	16939
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Signed:	
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Date:	10/09/2021
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Drawing No:
5941 ENG OPW2 400

Rev. No:
B



KEY PLAN
SCALE 1: 7500

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 403
ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 2 OF 7

Client:



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(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

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

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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 2 OF 7

Issue	Date	Description	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG

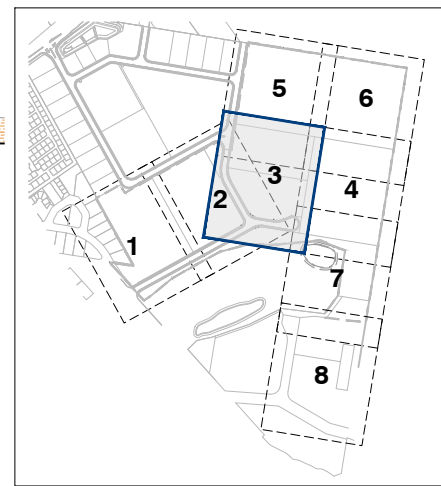
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 401
Rev. No: B



KEY PLAN
SCALE 1:7500

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: OPW/2021/1255

Dated: 25 October 2021

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

PAD MOUNT TRANSFORMER (PMT)
AND RING MAIN UNIT (RMU).

Pram ramps to be set closer to
the intersection as per RS-094

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 3 OF 7

Rev.	Date	Description	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	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: LAB / IG

Approved: MG

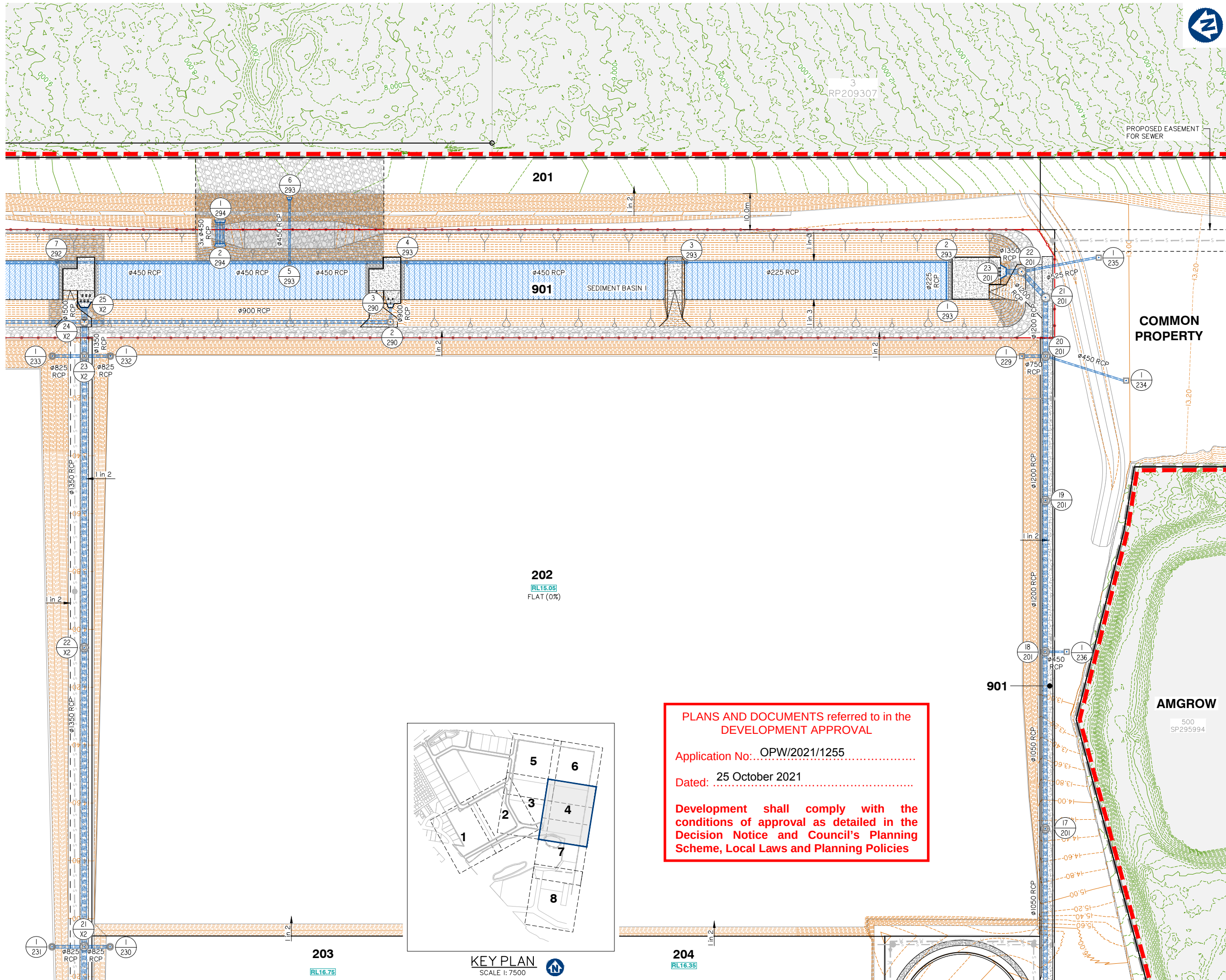
RPEQ: 16939

Signed:

Date: 10/09/2021

Drawing No:
5941 ENG OPW2 402

Rev. No:
B



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

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

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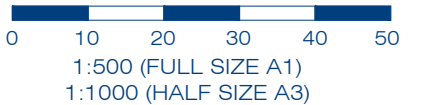
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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 4 OF 7

Issue	Date	Description	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES



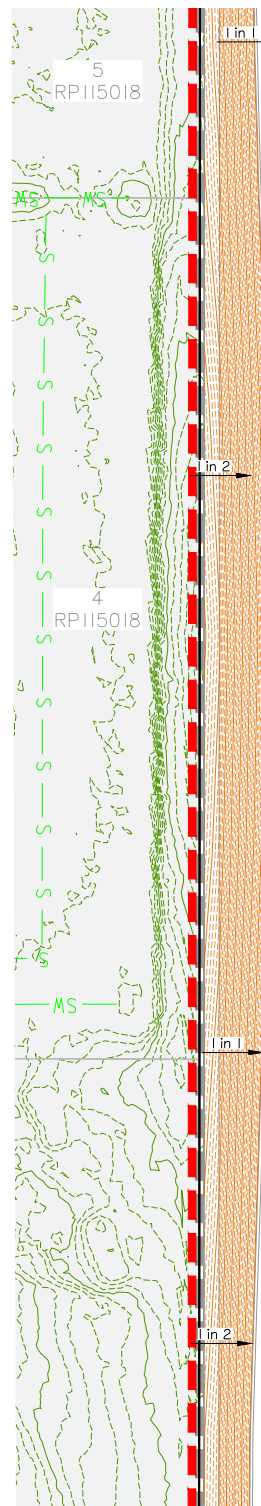
Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 403
Rev. No: B

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 405

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 406



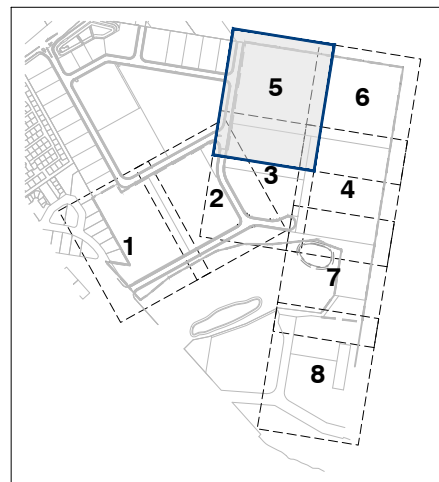
201
RL16.90
FLAT (0%)

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

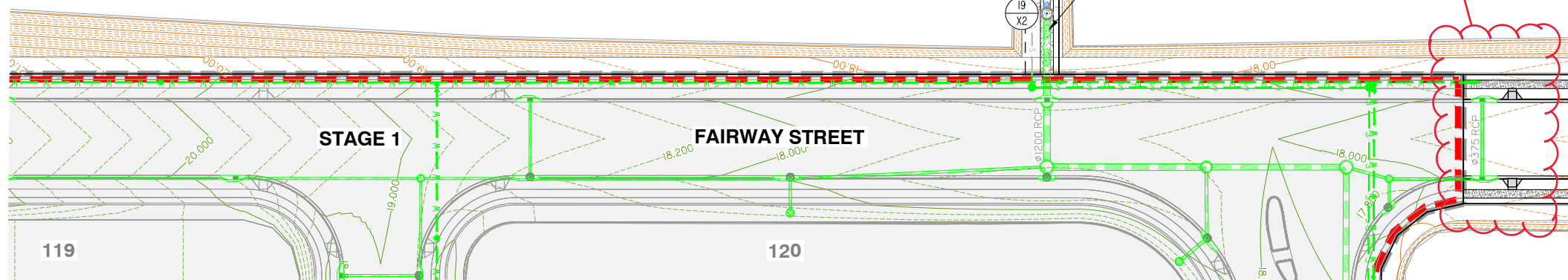
Application No: OPW/2021/1255

Dated: 25 October 2021

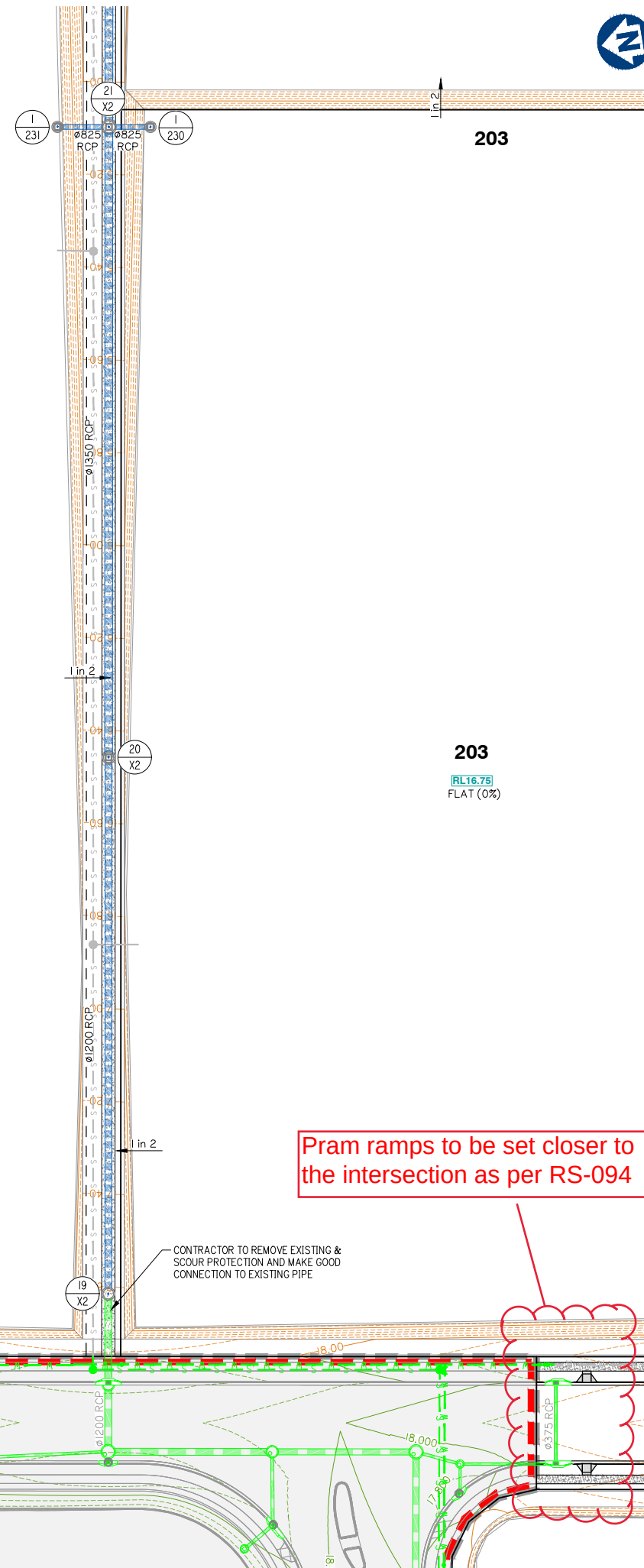
Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies



KEY PLAN
SCALE 1:7500



ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 5 OF 7



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

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

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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 5 OF 7

Issue	Date	Description	LAB	MG	CHK
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	

SCALE IN METRES



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

Scale at A1: 1:500

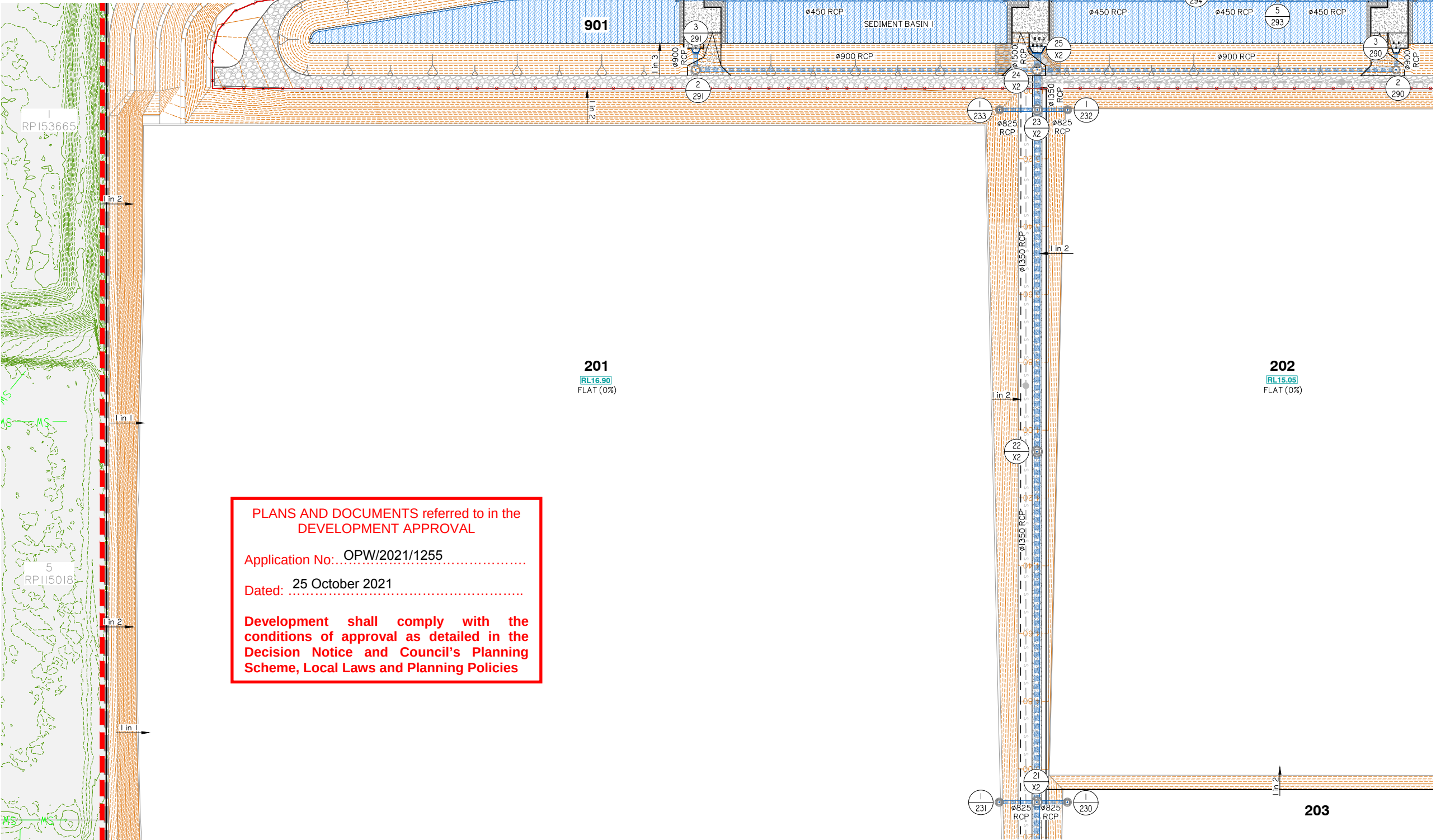
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

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KEY PLAN
SCALE 1: 7500



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Application No: OPW/2021/1255

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FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 404

ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 6 OF 7

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
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PSM: -
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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 6 OF 7

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

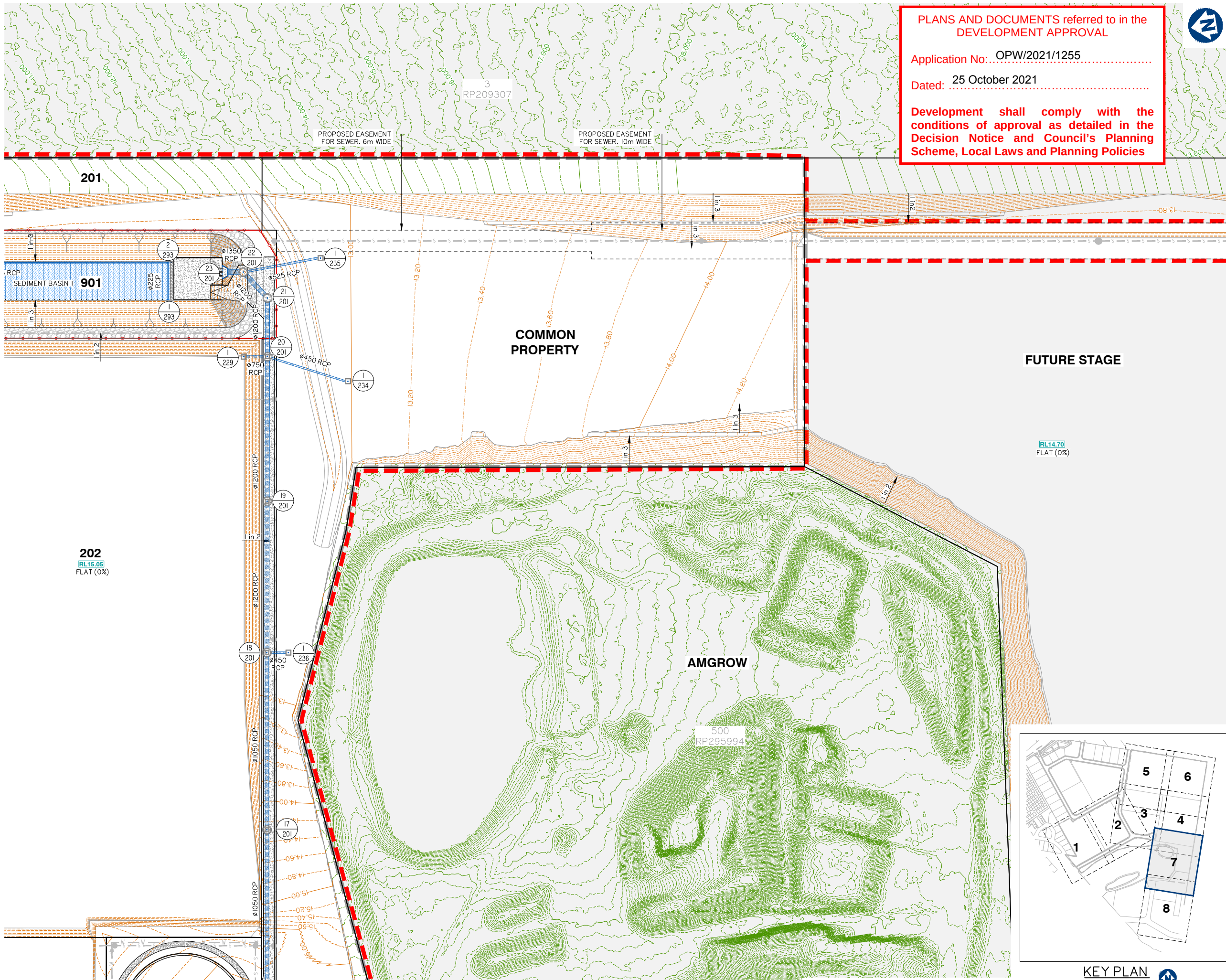


Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

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FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 403



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Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 7 OF 7

Rev	Date	Description	Lab	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



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

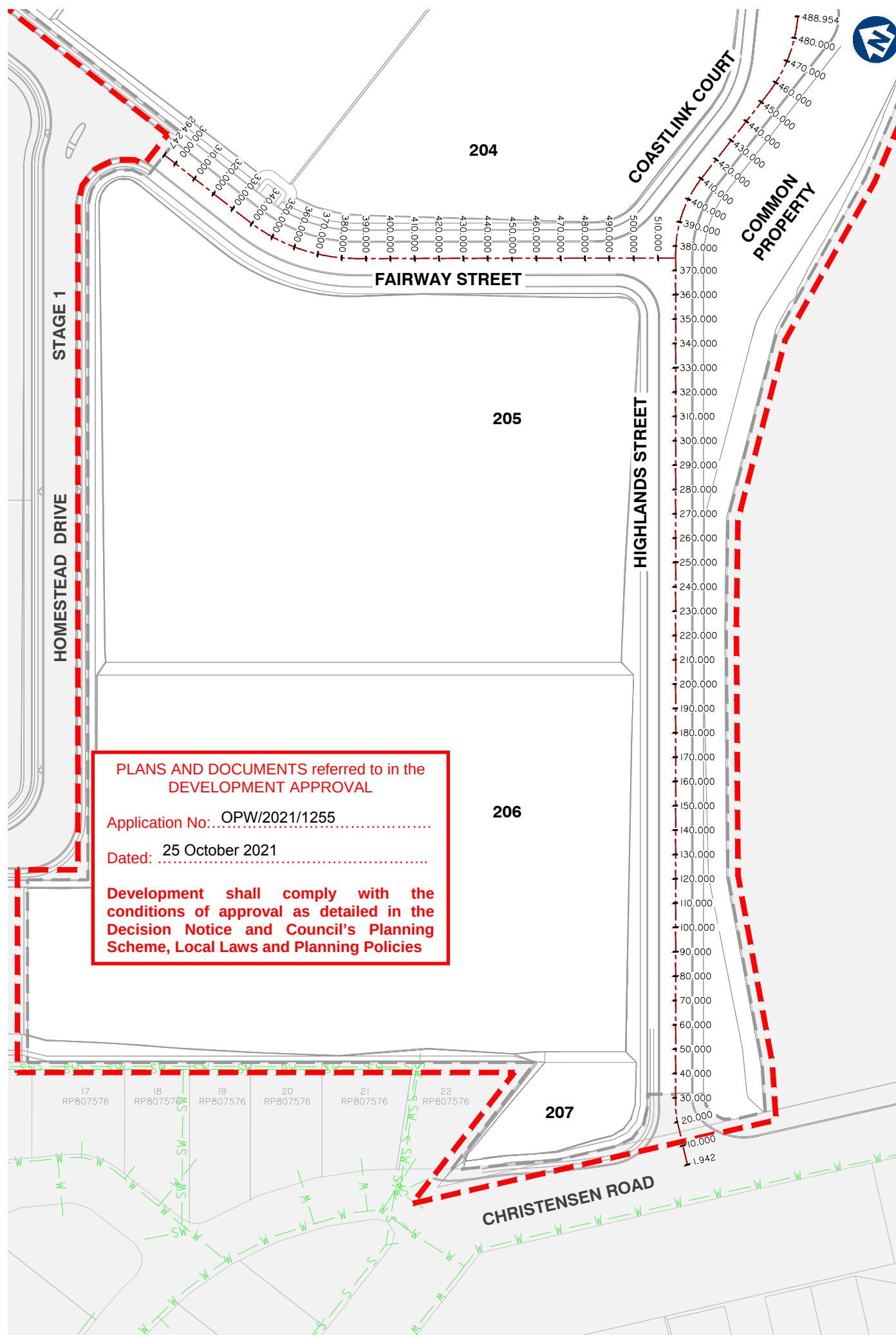
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

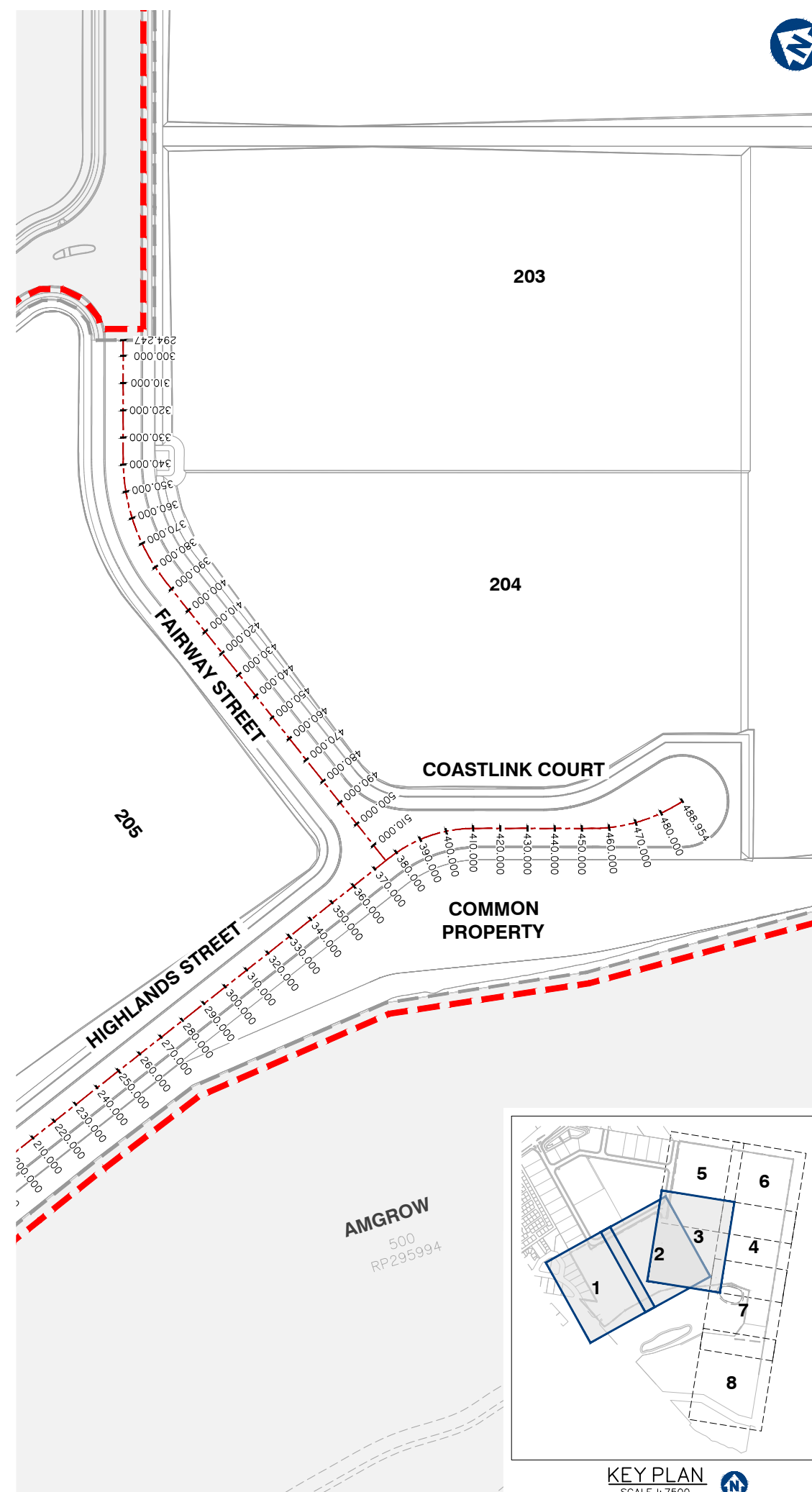
Drawing No:
5941 ENG OPW2 406

Rev. No:
B

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 403



CONTROL LINE LAYOUT PLAN



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Plan:	SP295994
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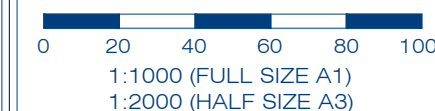
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DRAWING TITLE

CONTROL LINE LAYOUT PLAN

B	10/09/21		INFORMATION REQUEST RESPONSE	LAB	MO
A	30/07/21		ORIGINAL ISSUE	LAB	MO
Request			Description	DRI	CHI

SCALE IN METRES



Scale at A1:	1:1000
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:	Rev. No:
5941 ENG OPW2 420	B

CONTROL LINE SETOUT TABLE – AMGROW DAM OVERFLOW DRAIN								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2971.870	6491.557	12.850	111°26'55.60"			
	10.000	2981.177	6487.901	12.816	111°26'55.60"			
TC	13.893	2984.800	6486.477	12.802	111°26'55.60"			
	20.000	2990.672	6484.836	12.781	99°47'06.91"			
IP 2	20.299	2990.856	6484.098	12.780		R = –30.000	12.813	24°28'14.95"
CT	26.706	2997.352	6484.441	12.758	86°58'40.66"			
	30.000	3000.642	6484.615	12.747	86°58'40.66"			
	40.000	3010.628	6485.142	12.712	86°58'40.66"			
	50.000	3020.614	6485.669	12.678	86°58'40.66"			
	60.000	3030.600	6486.196	12.643	86°58'40.66"			
TC	70.000	3040.586	6486.724	12.609	86°58'40.66"			
	73.800	3044.381	6486.924	12.596	86°58'40.66"			
	80.000	3050.522	6487.728	12.574	78°05'48.71"			
	81.739	3052.414	6487.348	12.568		R = –40.000	15.877	22°44'33.80"
CT	89.677	3059.659	6490.845	12.541	64°14'06.86"			
	90.000	3059.950	6490.985	12.540	64°14'06.86"			
	100.000	3068.955	6495.332	12.505	64°14'06.86"			
	IP 4	104.492	3073.001	6497.285	12.500	64°14'06.86"		

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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



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Client:



FRASERS
PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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Lot:

Plan:

Local Authority:

Level Datum:

Meridian:

Contour interval:

PSM:

RL:

501

SP295994

CITY OF GOLD COAST
COUNCIL

AHD

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CONTROL LINE SETOUT
TABLES SHEET 2 OF 2

B	10/09/21	INFORMATION REQUEST RESPONSE			LAB MG
A	30/07/21	ORIGINAL ISSUE			LAB MG
Issue	Date	Description			DRN CHK

SCALE IN METRES

NOT APPLICABLE

Scale at A1: NTS

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 422

Rev. No: B

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

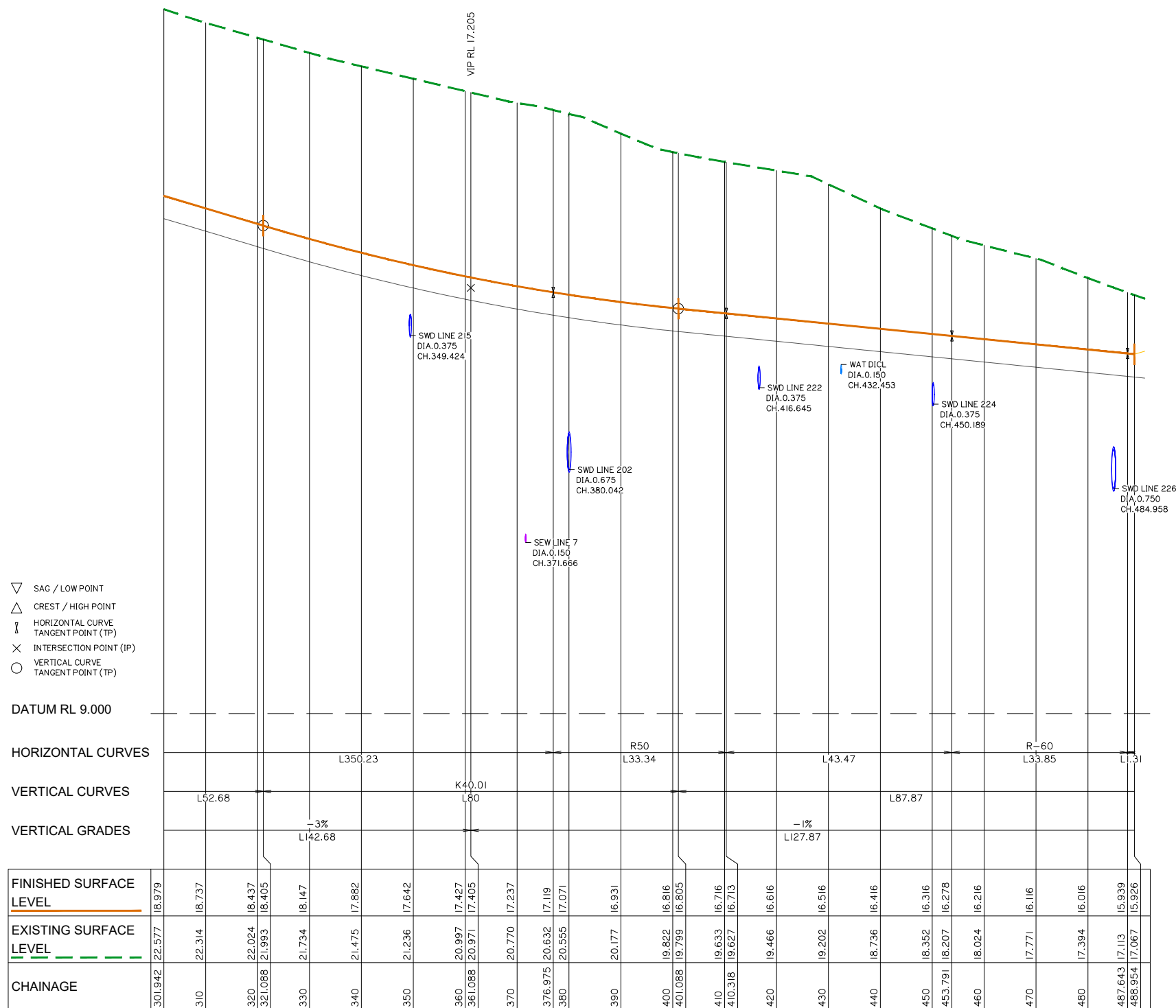


PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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



HIGHLANDS - LONGITUDINAL SECTION (cont.)

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Plan: SP295994
Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
Meridian: -
Contour interval: -
PSM: -
RL: -

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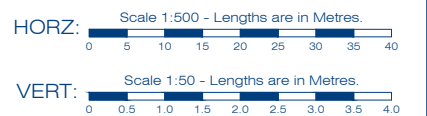
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DRAWING TITLE
HIGHLANDS STREET
LONGITUDINAL SECTION
SHEET 2 OF 2

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



Scale at A1: AS SHOWN

Designed:	IG
Drafted:	LAB / IG
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RPEQ:	16939
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Date:	10/09/2021

Drawing No: 5941 ENG OPW2 431
Rev. No: B

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Application No: OPW/2021/1255

Dated: 25 October 2021

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Application No: OPW/2021/1255

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PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

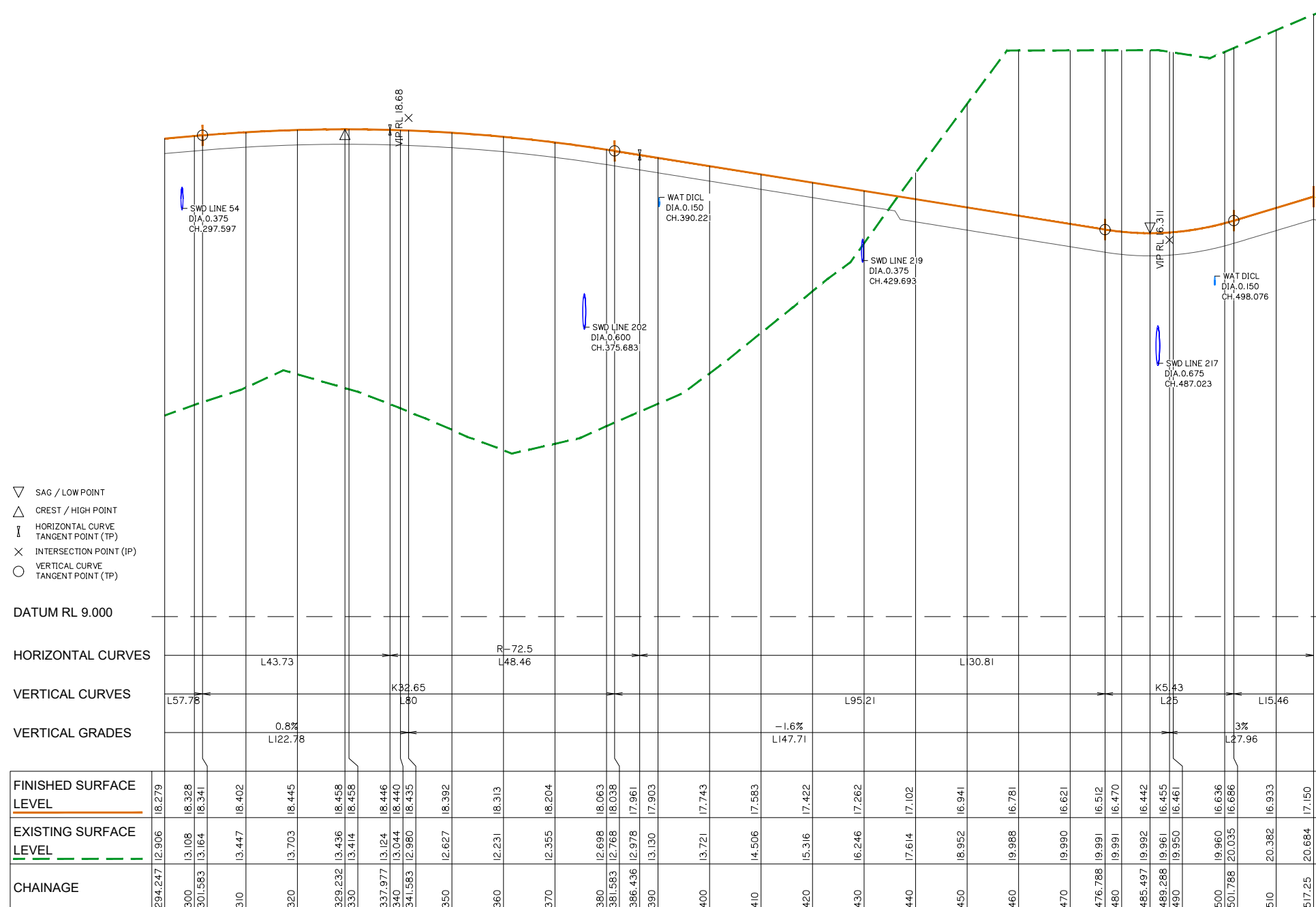
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Application No: OPW/2021/1255

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FAIRWAY STREET - LONGITUDINAL SECTION



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PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
STAGE 2

Site Address:
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Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
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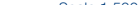
DRAWING TITLE

FAIRWAY STREET LONGITUDINAL SECTION

[illegible]

SCALE IN METRES

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



0 5 10 15 20 25 30 35 40

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

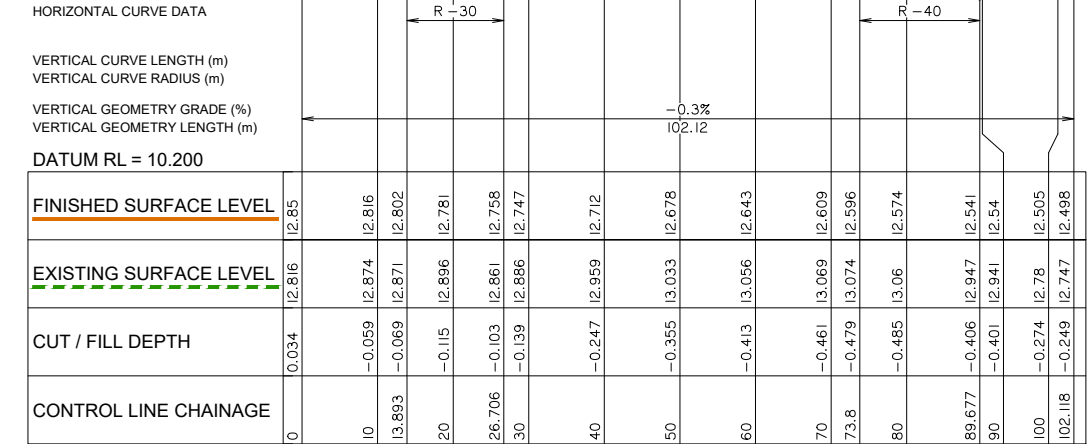


0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

scale at A1: AS SHOWN

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Drafted:	LAB / IG
Approved:	MG
PEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:	Rev. N
941 ENG OPW2 432	B



LONGITUDINAL SECTION - AMGROW DAM OVERFLOW DRAIN

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

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Client:



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Project:

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DRAWING TITLE
AMGROW DAM OVERFLOW
DRAIN LONGITUDINAL
SECTION

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

HORZ: Scale 1:500 - Lengths are in Metres.
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VERT: Scale 1:50 - Lengths are in Metres.
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

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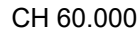
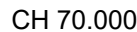
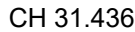
AS SHOWN

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RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW2 433

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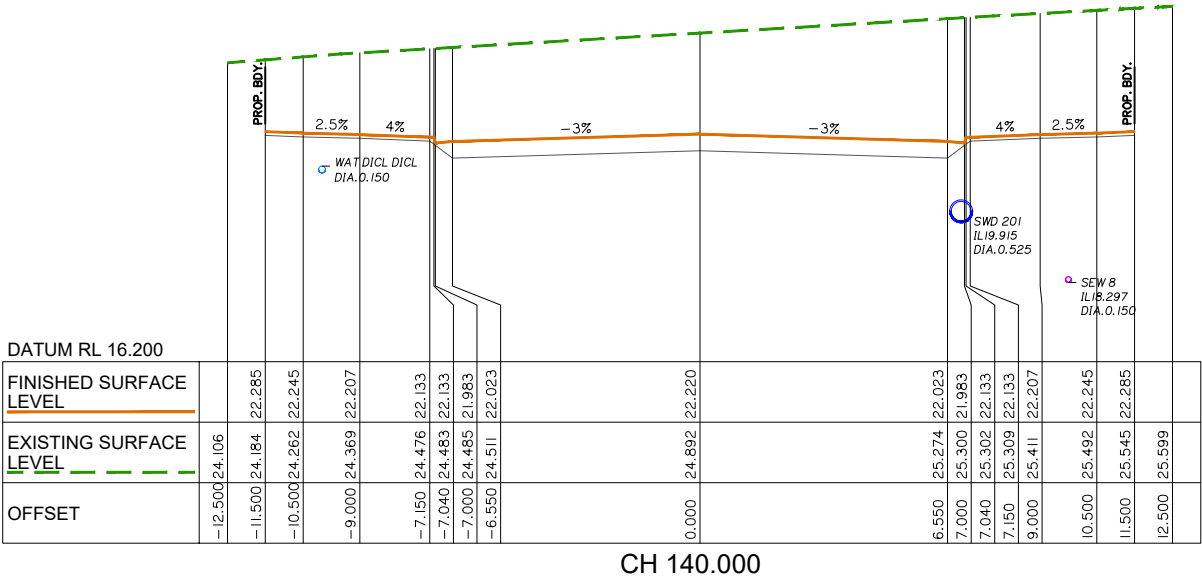
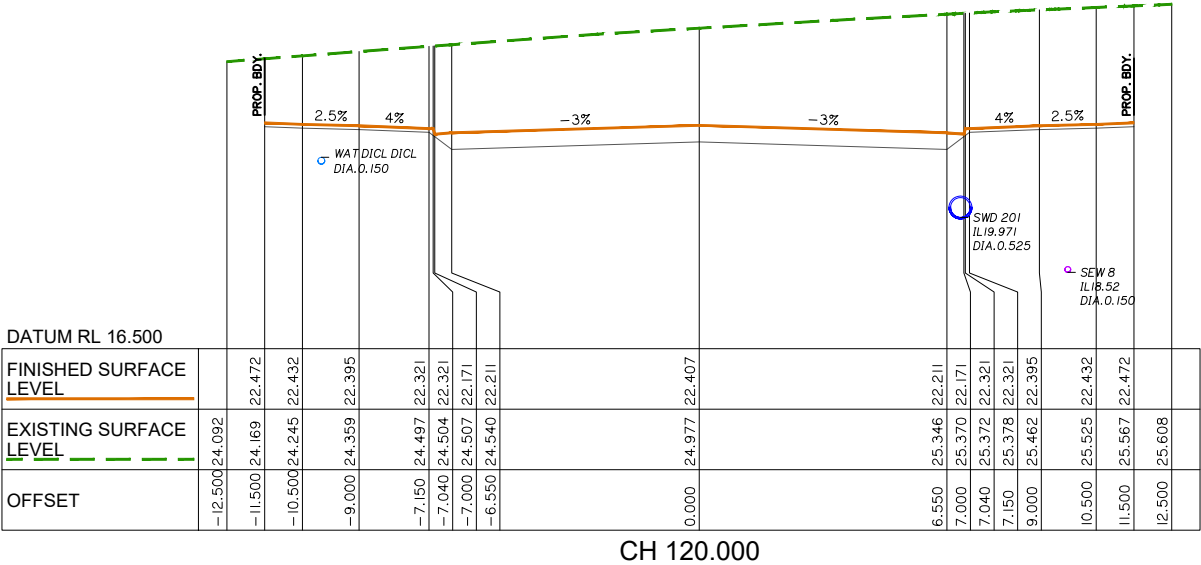
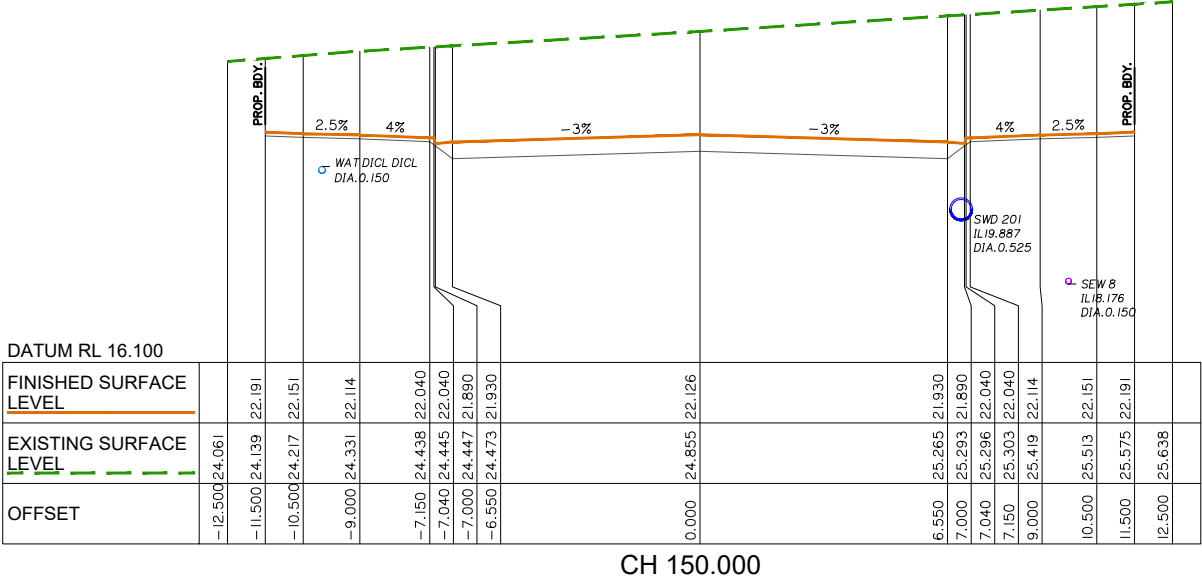
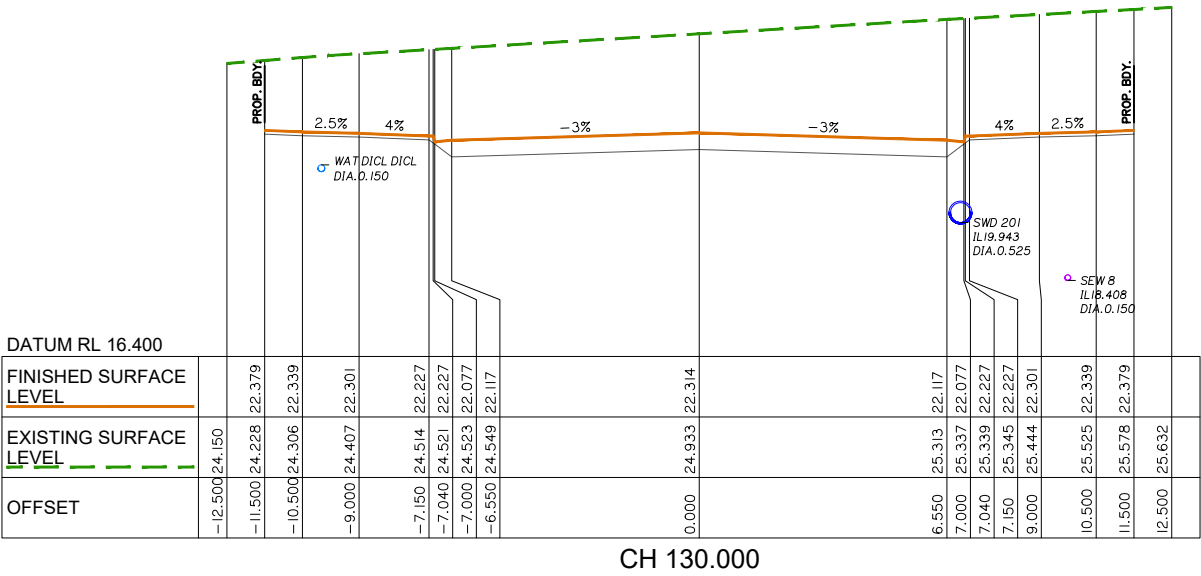
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PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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Scheme, Local Laws and Planning Policies

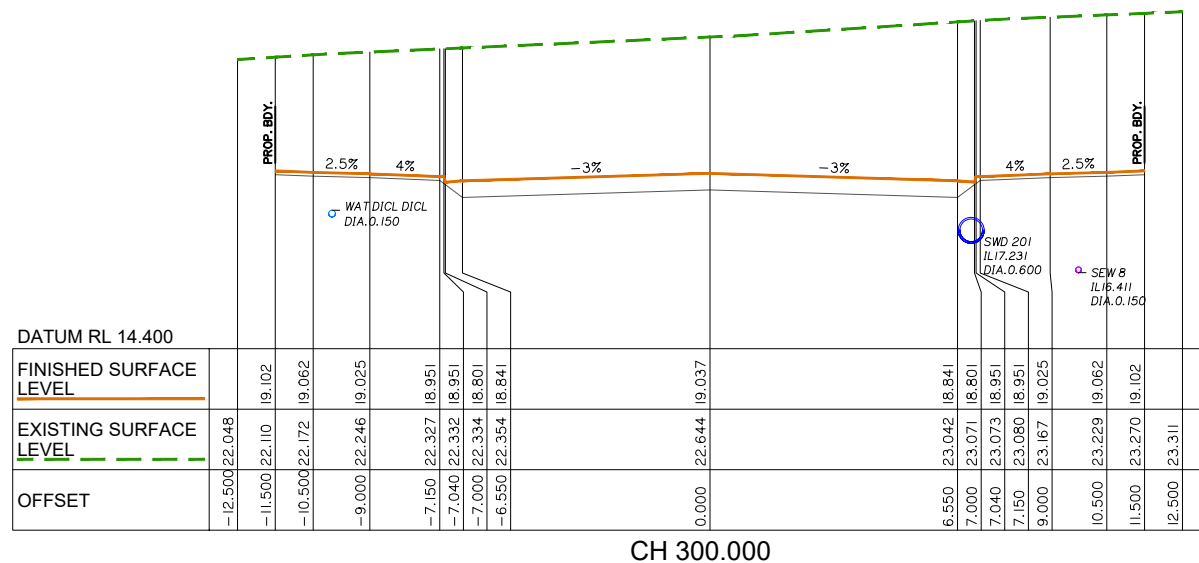


Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

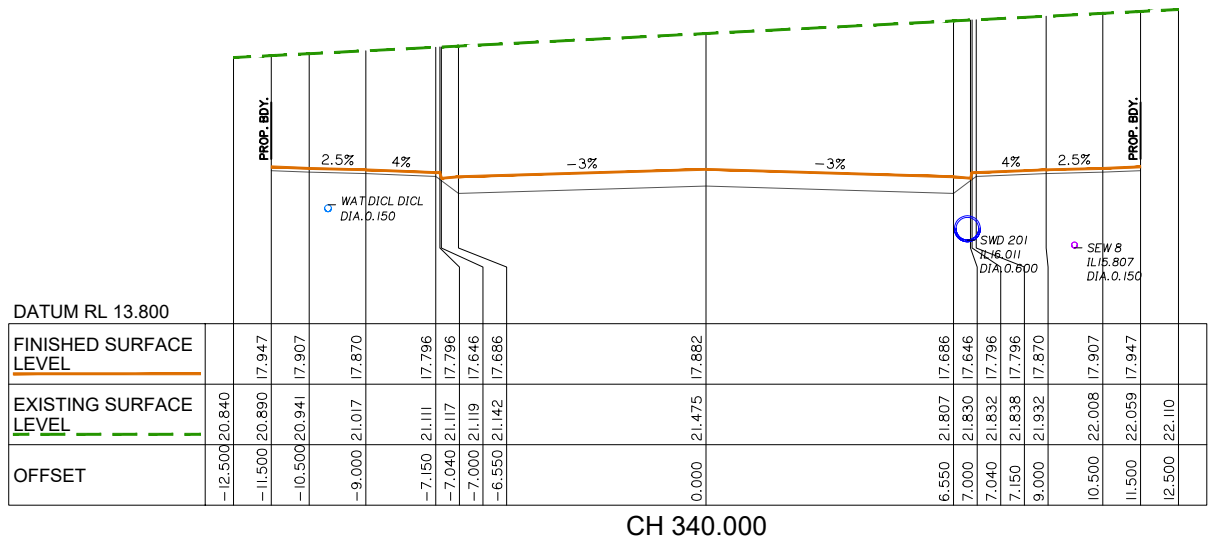
Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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E

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

Development shall comply with the
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Application No: OPW/2021/1255

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DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

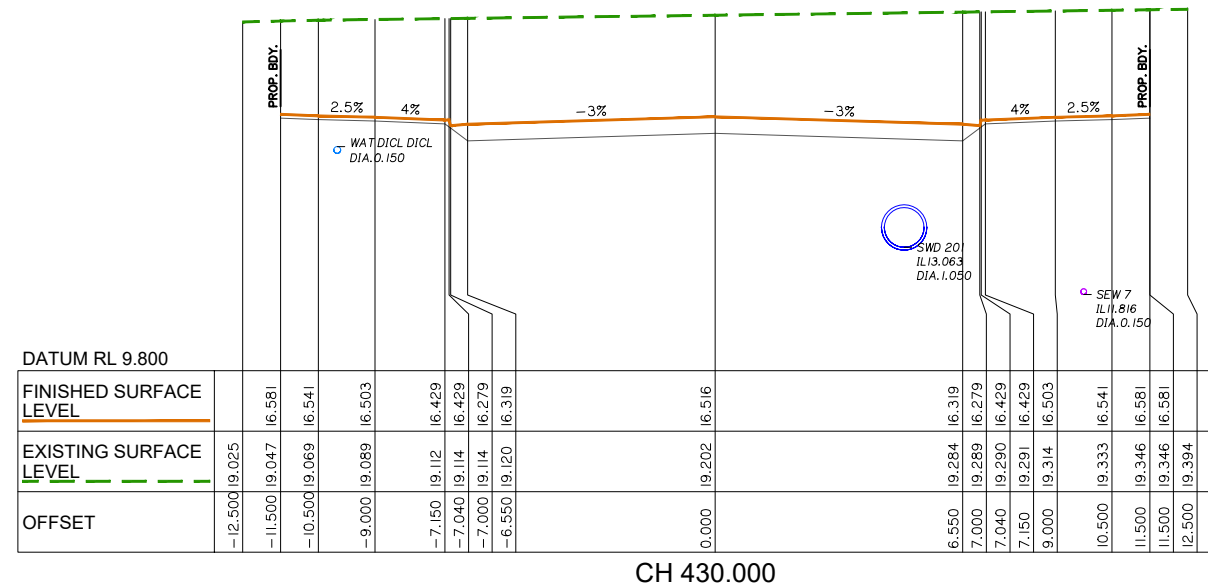
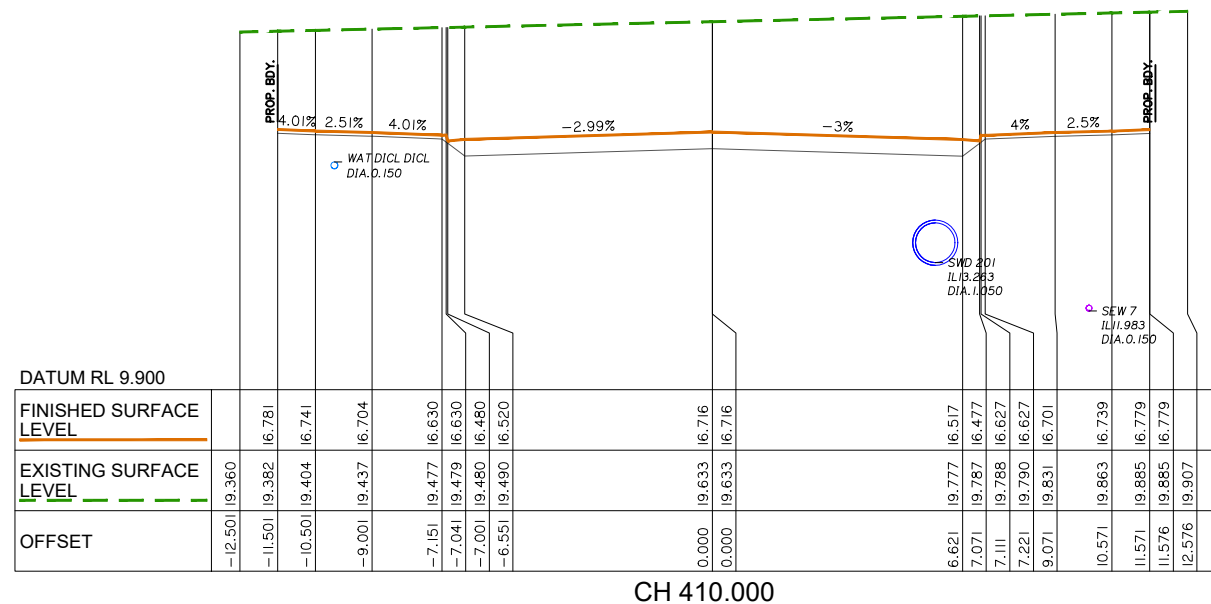
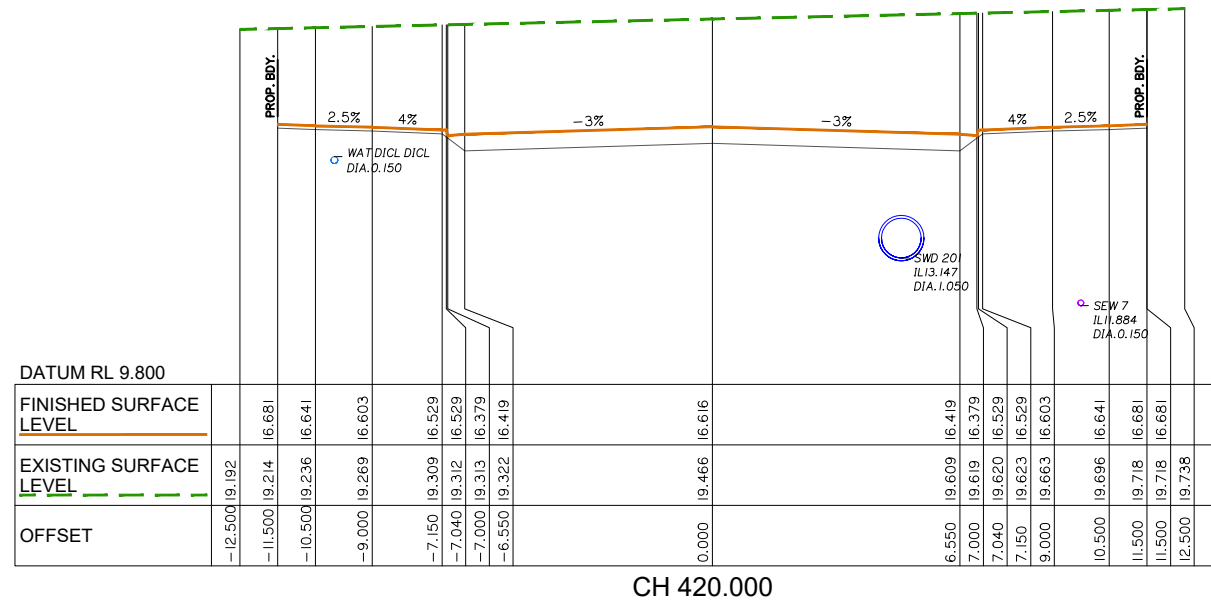
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Application No: OPW/2021/1255

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Client:

 **FRASERS
PROPERTY**

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

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

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

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

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

HIGHLANDS STREET CROSS
SECTIONS SHEET 9 OF 9

B	10/09/21	INFORMATION REQUEST RESPONSE		LAB
A	30/07/21	ORIGINAL ISSUE		LAB
Issue	Date	Description		DPR

SCALE IN METRES

HORZ: 

VERT: 

Scale at A1:	AS SHOWN
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Designed:	IG
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Drafted:	LAB / IG
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Approved:	MG
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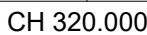
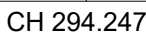
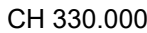
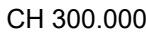
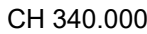
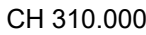
RPEQ:	16939
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Signed:	
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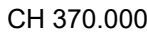
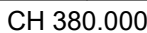
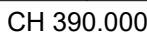
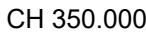
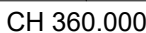
Date:	10/09/2021
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Drawing No:	Rev. M
5941 ENG OPW2 458	B

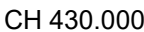
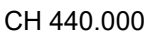
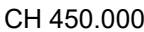
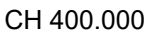
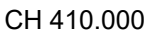
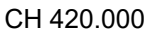
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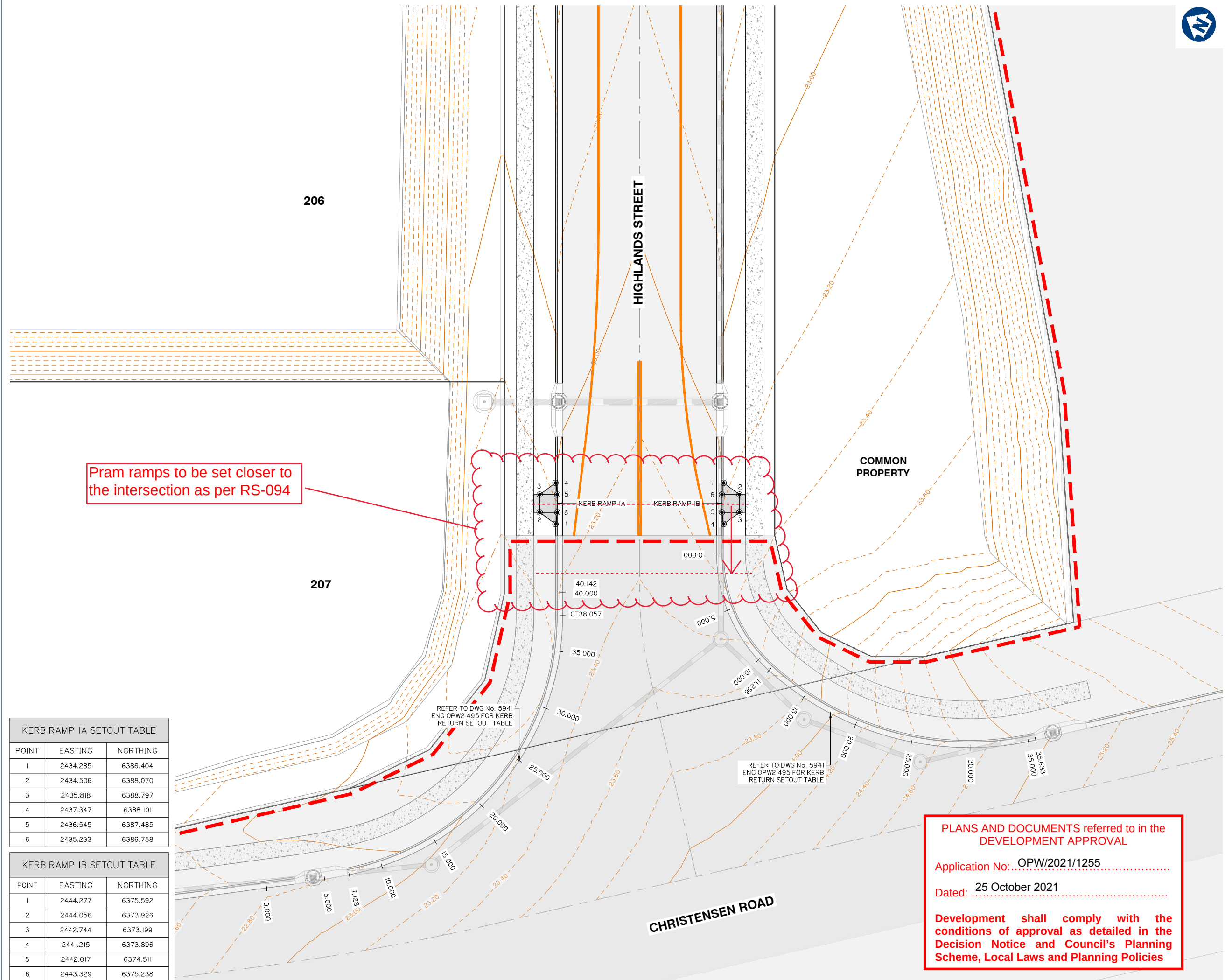


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KERB RAMP IA SETOUT TABLE		
POINT	EASTING	NORTHING
1	2434.285	6386.404
2	2434.506	6388.070
3	2435.818	6388.797
4	2437.347	6388.101
5	2436.545	6387.485
6	2435.233	6386.758

KERB RAMP IB SETOUT TABLE		
POINT	EASTING	NORTHING
1	2444.277	6375.592
2	2444.056	6373.926
3	2442.744	6373.199
4	2441.215	6373.896
5	2442.017	6374.511
6	2443.329	6375.238



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PSM: -
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DRAWING TITLE

ROAD INTERSECTION
DETAILS SHEET 1 OF 5

Issue	Date	Description	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES



1:150 (FULL SIZE A1)
1:300 (HALF SIZE A3)

Scale at A1: 1:150

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW1 490 Rev. No: B

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

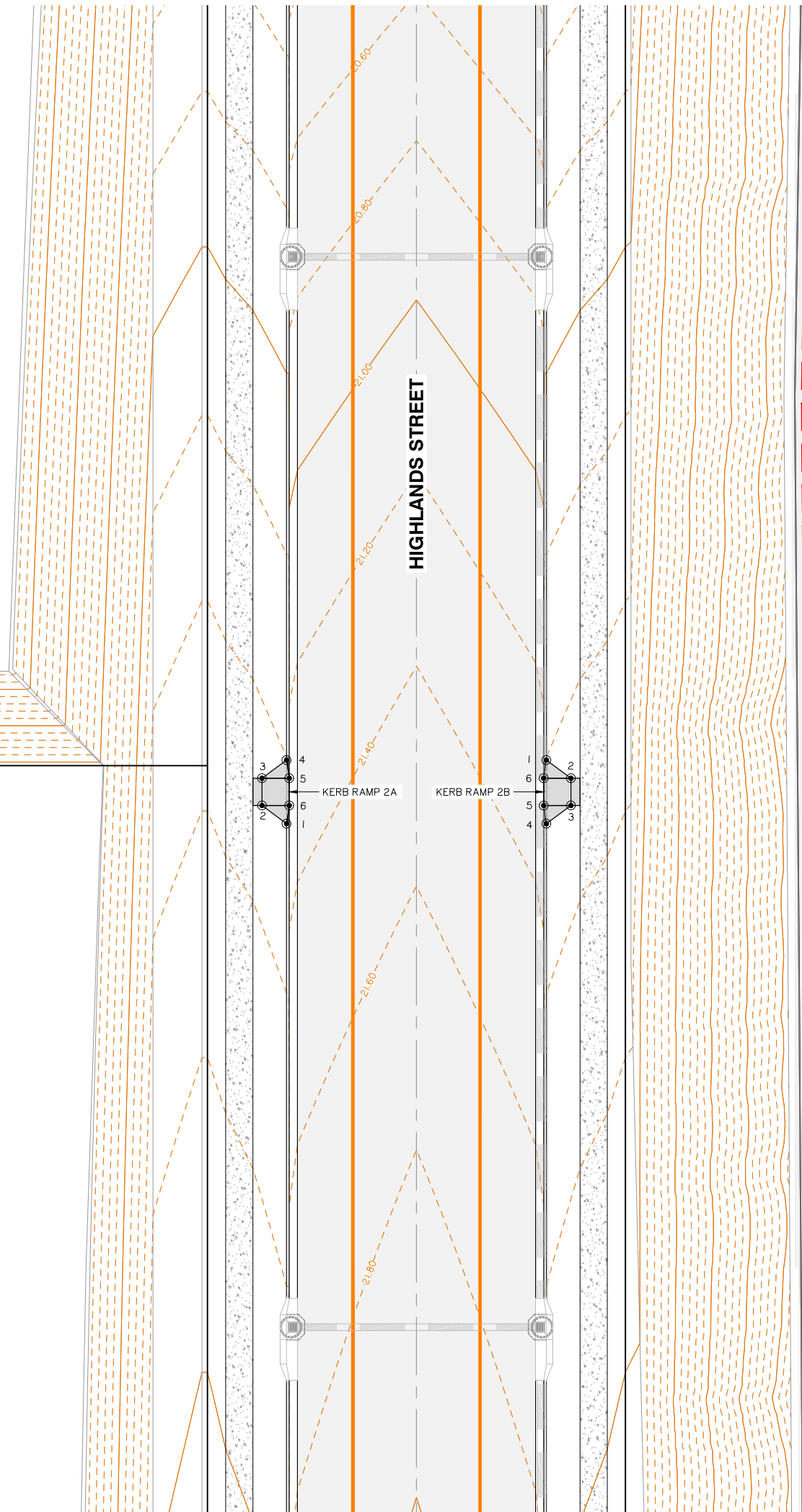
Application No: OPW/2021/1255

Dated: 25 October 2021

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206



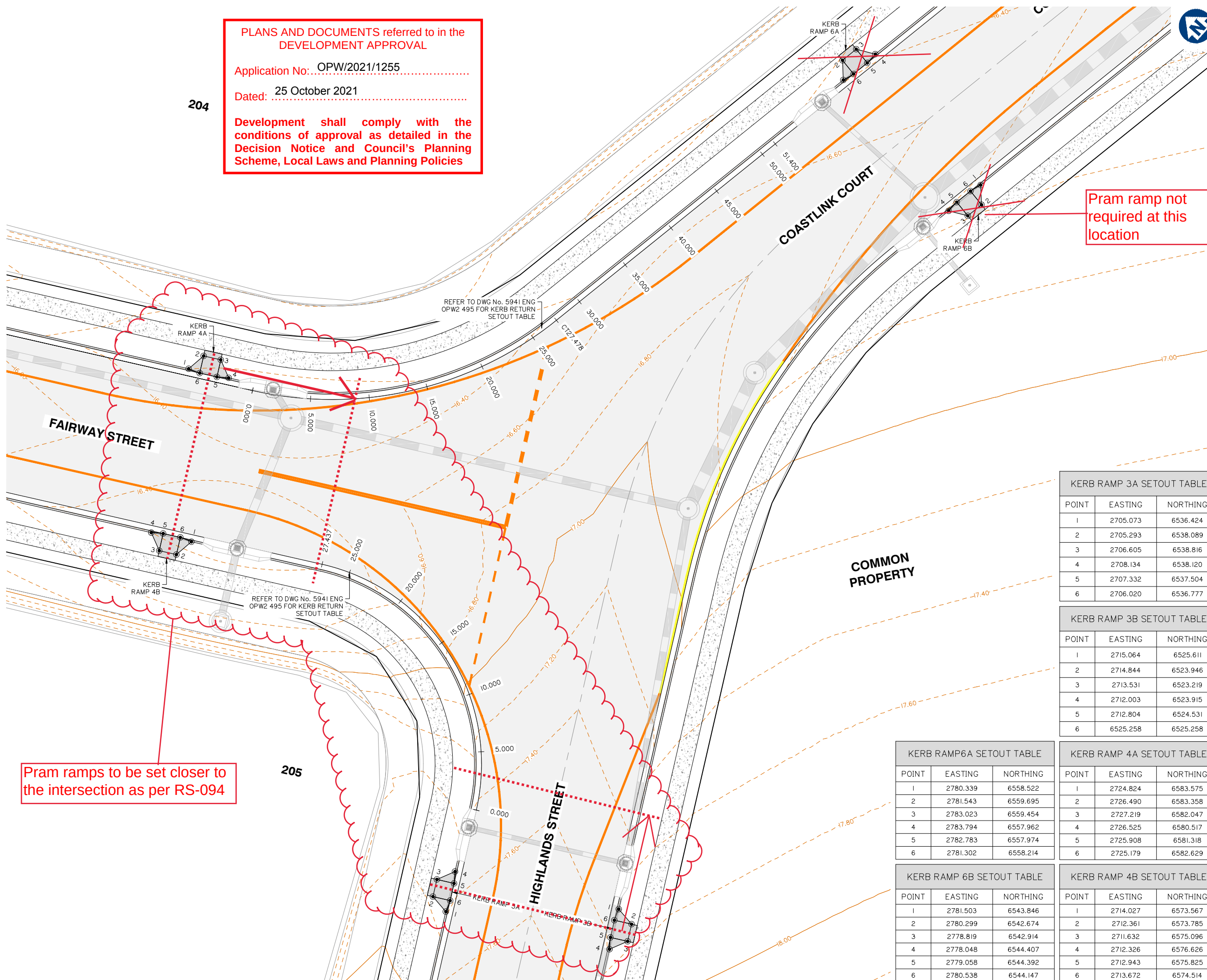
KERB RAMP 2B SETOUT TABLE		
POINT	EASTING	NORTHING
1	2591.300	6457.045
2	2591.080	6455.379
3	2589.768	6454.652
4	2588.239	6455.348
5	2589.039	6455.963
6	2590.353	6456.691

Drawing No:	Rev. No:
5941 ENG OPW1 491	B

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

205

ROAD INTERSECTION DETAILS SHEET 3 OF 5



KERB RAMP 3A SETOUT TABLE		
POINT	EASTING	NORTHING
1	2705.073	6536.424
2	2705.293	6538.089
3	2706.605	6538.816
4	2708.134	6538.120
5	2707.332	6537.504
6	2706.020	6536.777

KERB RAMP 3B SETOUT TABLE		
POINT	EASTING	NORTHING
1	2715.064	6525.611
2	2714.844	6523.946
3	2713.531	6523.219
4	2712.003	6523.915
5	2712.804	6524.531
6	6525.258	6525.258

KERB RAMP6A SETOUT TABLE		
POINT	EASTING	NORTHING
1	2780.339	6558.522
2	2781.543	6559.695
3	2783.023	6559.454
4	2783.794	6557.962
5	2782.783	6557.974
6	2781.302	6558.214

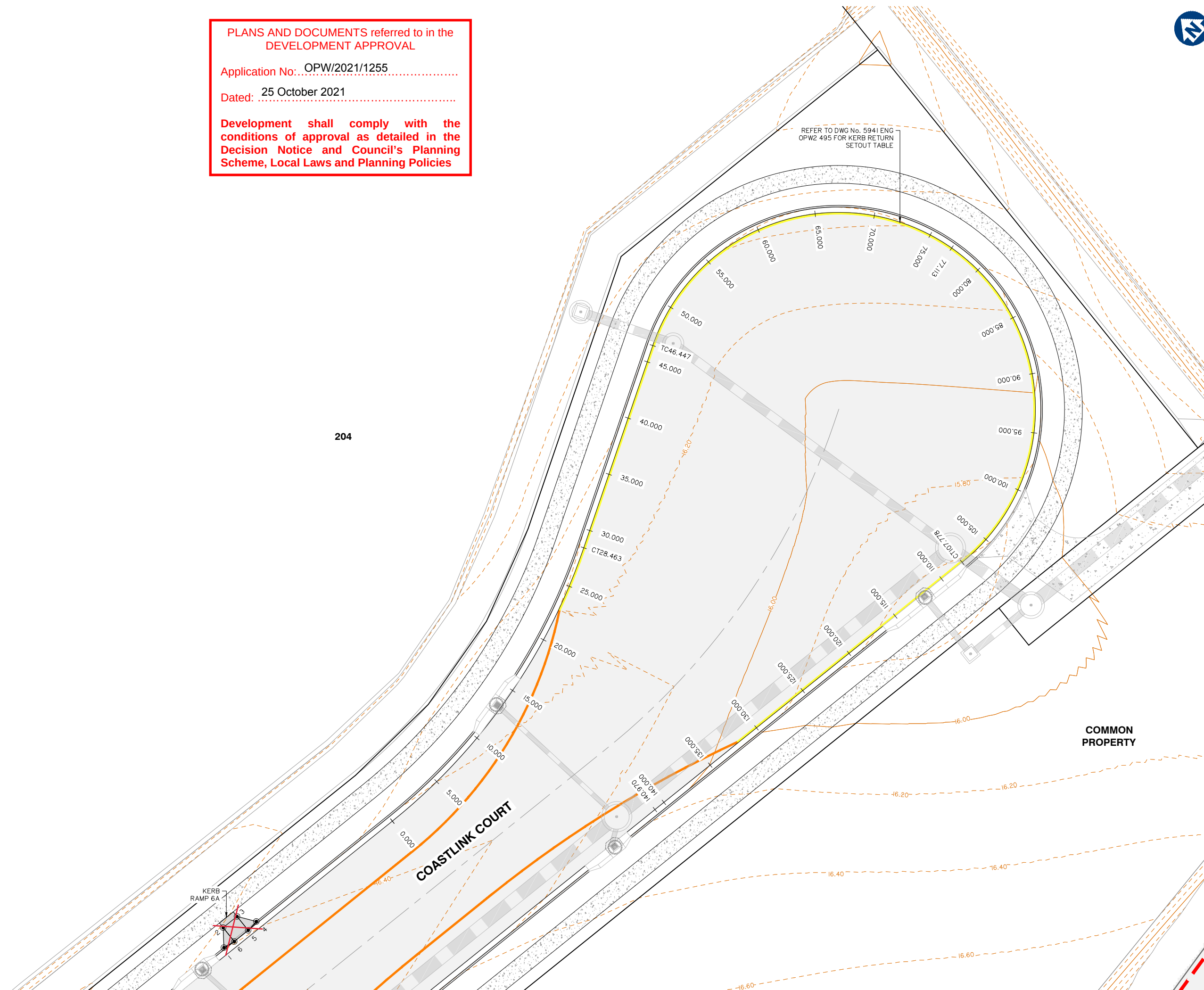
KERB RAMP 4A SETOUT TABLE		
POINT	EASTING	NORTHING
1	2724.824	6583.575
2	2726.490	6583.358
3	2727.219	6582.047
4	2726.525	6580.517
5	2725.908	6581.318
6	2725.179	6582.629

KERB RAMP 6B SETOUT TABLE		
POINT	EASTING	NORTHING
1	2781.503	6543.846
2	2780.299	6542.674
3	2778.819	6542.914
4	2778.048	6544.407
5	2779.058	6544.392
6	2780.538	6544.147

KERB RAMP 4B SETOUT TABLE		
POINT	EASTING	NORTHING
1	2714.027	6573.567
2	2712.361	6573.785
3	2711.632	6575.096
4	2712.326	6576.626
5	2712.943	6575.825
6	2713.672	6574.514

Drawing No:	Rev. No:
5941 ENG OPW1 492	B

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CHRISTENSEN ROAD TO HIGHLANDS STREET KERB RETURN (LOK) – SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2395.317	6392.916	22.778	144°00'36.62"			
IP 2	3.564	2397.412	6390.031	22.788		R = –100.578	7.128	4°03'37.76"
	5.000	2398.354	6388.945	22.797	141°09'42.62"			
CC	7.128	2399.706	6387.301	22.818	139°56'58.86"			
	10.000	2401.690	6385.227	22.857	132°37'10.18"			
	15.000	2405.714	6382.277	22.955	119°51'31.47"			
	20.000	2410.291	6380.289	23.094	107°05'52.76"			
IP 3	22.593	2411.601	6373.151	23.168		R = –22.450	30.929	78°56'11.86"
	25.000	2415.193	6379.361	23.222	94°20'14.05"			
	30.000	2420.180	6379.539	23.286	81°34'35.34"			
	35.000	2425.004	6380.814	23.288	68°48'56.63"			
CT	38.057	2427.771	6382.109	23.257	61°00'47.00"			
	40.000	2429.470	6383.051	23.226	61°00'47.00"			
IP 4	40.142	2429.594	6383.120	23.223	61°00'47.00"			

HIGHLANDS STREET TO CHRISTENSEN ROAD KERB RETURN (LOK) – SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2438.775	6373.230	23.165	241°00'47.00"			
	5.000	2434.946	6370.059	23.291	219°42'48.63"			
IP 2	5.628	2433.543	6370.331	23.313		R = –13.450	11.256	47°56'57.35"
	10.000	2432.532	6365.713	23.500	198°24'50.27"			
CC	11.256	2432.191	6364.505	23.566	193°03'49.65"			
	15.000	2431.615	6360.809	23.792	184°38'05.10"			
	20.000	2431.702	6355.817	24.153	173°22'41.57"			
IP 3	23.445	2429.204	6351.632	24.382		R = –25.450	24.377	54°52'52.15"
	25.000	2432.761	6350.939	24.476	162°07'18.03"			
	30.000	2434.752	6346.361	24.737	150°51'54.49"			
	35.000	2437.599	6342.260	24.937	139°36'30.95"			
IP 4	35.633	2438.015	6341.783	24.958	138°10'57.50"			

HIGHLANDS STREET TO FAIRWAY STREET KERB RETURN (LOK) – SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2713.236	6540.260	17.423	61°00'47.00"			
	5.000	2717.205	6543.273	17.273	44°35'45.34"			
	10.000	2720.161	6547.284	17.048	28°10'43.67"			
IP 2	13.719	2728.523	6548.730	16.832		R = –17.450	27.437	90°05'17.29"
	15.000	2721.863	6551.967	16.754	11°45'42.01"			
	20.000	2722.172	6556.941	16.504	355°20'40.35"			
	25.000	2721.063	6561.799	16.345	338°55'38.68"			
IP 3	27.437	2720.031	6564.004	16.300	330°55'29.71"			

FAIRWAY STREET TO HIGHLANDS STREET KERB RETURN (LOK) – SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2727.075	6578.293	16.247	150°55'29.71"			
	5.000	2729.852	6574.141	16.243	141°31'00.28"			
	10.000	2733.270	6570.500	16.259	132°06'30.85"			
IP 2	13.739	2734.245	6565.398	16.282		R = –30.450	27.478	51°42'14.22"
	15.000	2737.237	6567.466	16.293	122°42'01.43"			
	20.000	2741.647	6565.122	16.346	113°17'32.00"			
	25.000	2746.381	6563.530	16.417	103°53'02.58"			
CT	27.478	2748.808	6563.033	16.457	99°13'15.49"			
	30.000	2751.297	6562.629	16.492	99°13'15.49"			
	35.000	2756.233	6561.828	16.540	99°13'15.49"			
	40.000	2761.168	6561.027	16.562	99°13'15.49"			
	45.000	2766.104	6560.226	16.559	99°13'15.49"			
	50.000	2771.039	6559.424	16.529	99°13'15.49"			
IP 3	51.400	2772.421	6559.200	16.516	99°13'15.49"			

COASTLINK COURT CUL–DE–SAC (LOK) – SETOUT TABLE								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2797.731	6555.091	16.260	99°13'15.49"			
	5.000	2802.698	6554.536	16.200	93°32'32.99"			
	10.000	2807.696	6554.474	16.167	87°51'50.49"			
IP 2	14.232	2812.164	6552.748	16.161		R = –50.450	28.463	32°19'31.28"
	15.000	2812.675	6554.908	16.162	82°11'07.99"			
	20.000	2817.587	6555.832	16.183	76°30'25.49"			
	25.000	2822.383	6557.237	16.213	70°49'42.99"			
CT	28.463	2825.612	6558.486	16.234	66°53'44.21"			
	30.000	2827.026	6559.089	16.243	66°53'44.21"			
	35.000	2831.625	6561.051	16.273	66°53'44.21"			
	40.000	2836.224	6563.013	16.303	66°53'44.21"			
	45.000	2840.823	6564.975	16.333	66°53'44.21"			
TC	46.447	2842.154	6565.543	16.342	66°53'44.21"			
	50.000	2845.546	6566.577	16.363	79°11'40.66"			
	55.000	2850.523	6566.764	16.393	96°30'16.32"			
	60.000	2855.331	6565.461	16.423	113°48'51.97"			
IP 3	61.780	2862.415	6574.187	16.433		R = 16.550	30.665	106°09'45.64"
	65.000	2859.534	6562.787	16.441	131°07'27.62"			
	70.000	2862.750	6558.984	16.427	148°26'03.27"			
	75.000	2864.689	6554.396	16.379	165°44'38.92"			
CC	77.113	2865.077	6552.321	16.348	173°03'29.85"			
	80.000	2865.175	6549.439	16.297	183°03'14.57"			
	85.000	2864.164	6544.561	16.182	200°21'50.22"			
	90.000	2861.748	6540.206	16.045	217°40'25.88"			
IP 4	92.445	2867.740	6530.455	15.978		R = 16.550	30.665	106°09'45.64"
	95.000	2858.145	6536.766	15.907	234°59'01.53"			
	100.000	2853.682	6534.554	15.770	252°17'37.18"			
	105.000	2848.763	6533.771	15.635	269°36'12.83"			
CT	107.778	2845.997	6533.984	15.584	279°13'15.49"			
	110.000	2843.803	6534.340	15.562	279°13'15.49"			
	115.000	2838.868	6535.142	15.572	279°13'15.49"			
	120.000	2833.933	6535.943	15.664	279°13'15.49"			
	125.000	2828.997	6536.744	15.779	279°13'15.49"			
	130.000	2824.062	6537.545	15.894	279°13'15.49"			
	135.000	2819.126	6538.346	15.998	279°13'15.49"			
	140.000	2814.191	6539.148	16.071	279°13'15.49"			
IP 5	140.970	2813.233	6539.303	16.081	279°13'15.49"			

PLANS AND DOCUMENTS referred to in the
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planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

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DRAWING TITLE

ROAD INTERSECTION
SETOUT TABLES

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE NOT
APPLICABLE

Scale at A1: N.T.S

Designed: IG

Drafted: LAB / IG

Approved: MG

RPEQ: 16939

Signed:

Date: 10/09/2021

Drawing No:
5941 ENG OPW1 495

Rev. No:
B



CATCHMENT TABLE	
STRUCTURE No.	CATCHMENT AREA (Ha)
CAT 2 / 223	0.074
CAT 1 / 223	0.297
CAT 1 / 222	0.016
CAT 2 / 225	0.038
CAT 2 / 228	0.308
CAT 1 / 224	0.055
CAT 1 / 228	0.210
CAT 1 / 236	0.172
CAT 17 / 201	0.022
CAT 18 / 201	0.020
CAT 19 / 201	0.017
CAT 20 / 201	0.018
CAT 1 / 235	0.947
CAT 1 / 234	0.262
CAT 1 / 239	2.180
CAT 1 / 206	2.075
CAT 1 / 230	2.582
CAT 1 / 232	2.180
CAT 20 / X2	0.062
CAT 21 / X2	0.067
CAT 22 / X2	0.048
CAT 23 / X2	0.052
CAT 1 / 231	4.615
CAT 1 / 233	3.631
CAT 2 / X2	1.927

DESIGN OF STORMWATER DRAINAGE PIPEWORK

THE FOLLOWING DESIGN CRITERIA HAVE BEEN USED FOR THE DESIGN AND SPECIFICATION OF THE STORMWATER DRAINAGE PIPEWORK.

- (i) SUPPORT TYPE: HS2
- (ii) CONSTRUCTION: VIBRATORY RAMMER
- (iii) EQUIPMENT LOADING: (UP TO 75kg)
- (iv) MINIMUM COMPACTED COVER OVER PIPE: 300mm

IN FAVOURABLE GROUND
CONDITIONS PROVIDE PRECAST
CONCRETE PIT BASE (OR
EQUIVALENT) TO SUIT SPECIFIED
DIAMETER OF SHAFT UP TO 1200
DIA.

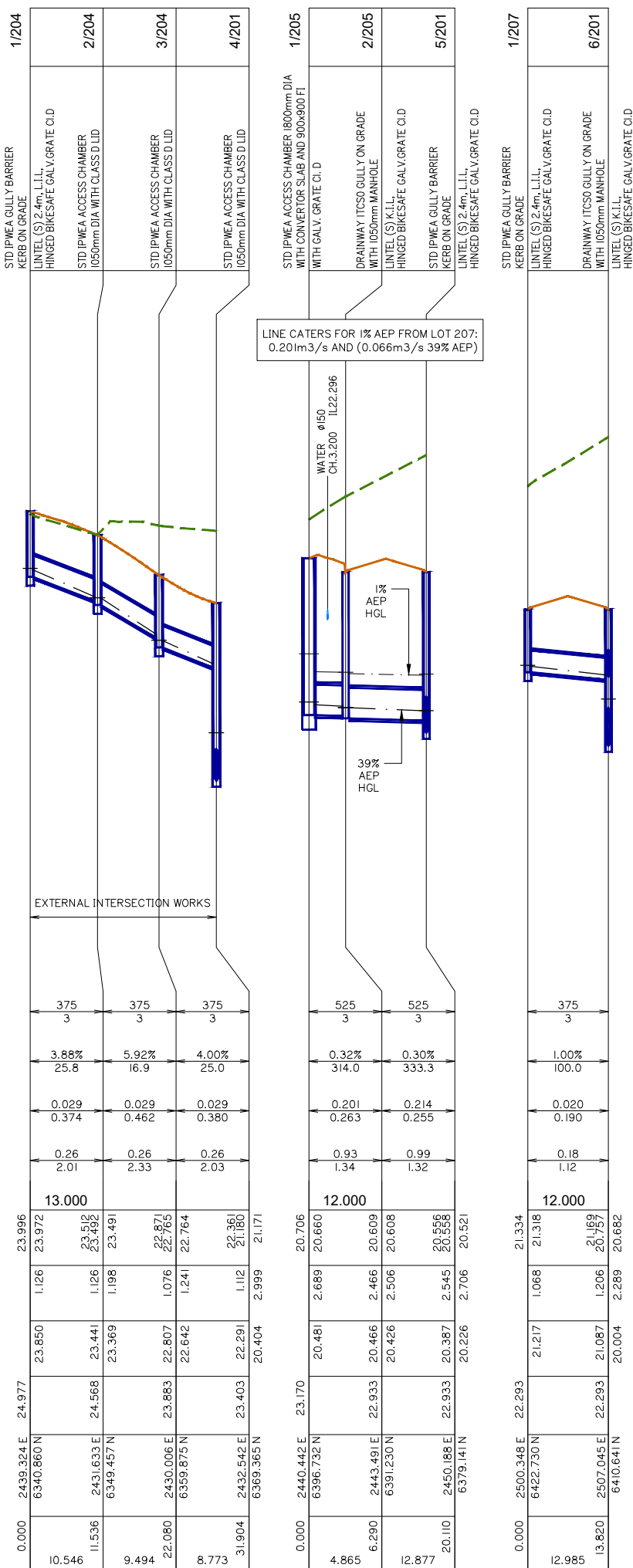
ALTERNATELY (OR EXCEEDING
1200 DIA) PROVIDE 250mm THICK
CAST IN-SITU REINFORCED
CONCRETE BASE, 2 LAYERS SL82
MESH ON 50MM THICK BLINDING
CONCRETE

SHAFT	OFFSET
1200	475
1350	550
1500	625
1800	775
2100	925

NOTE: PROVIDE DRAINWAY CONVERTER
SLAB FOR SHAFTS 1200Ø, 1500Ø, 1800Ø

PIPE / BOX SIZE (mm)
TYPE / CLASS
PIPE / BOX GRADE (%)
PIPE / BOX SLOPE (1 in X)
PIPE / BOX FLOW (cumecs) (39.35% AEP / Q2)
CAPACITY FLOW (cumecs)
PIPE / BOX FLOW VELOCITY (m/s)
CAPACITY FLOW VELOCITY (m/s)
DATUM RL

CHAINAGE	-6.138	2656.014 E 6668.957 N	18.185	14.694	3.490	17.639 17.219
SETOUT COORDINATES (E/N)	0.000	2661.858 E 6670.834 N	17.942	14.684	3.257	17.186 17.115
FINISHED SURFACE LEVEL	12.559	2674.380 E 6669.873 N	17.959	14.610	3.348	17.031 17.036
	50.667			14.560	3.398	16.835
	64.501	2699.622 E 6624.477 N	17.105	14.459	2.645	16.449 16.398
	55.769			14.409	2.695	
	121.920	2727.525 E 6574.293 N	16.296	13.845	2.451	15.937 15.884
	33.037			13.815	2.481	15.683
	156.607	2744.381 E	16.910	13.677	3.232	15.160 15.254



STRUCTURE NAME	1/208
STRUCTURE DESCRIPTION	STD IPWEA ACCESS CHAMBER 1500mm DIA WITH CONVERTOR SLAB AND 900x900 FI WITH GALV. GRATE CI D
	6/201
	STD IPWEA GULLY BARRIER KERB ON GRADE LINTEL (S) 2.4m, L.L.L. HINGED BIKESAFE GALV GRATE C.I.D

DESIGN OF STORMWATER DRAINAGE PIPEWORK

THE FOLLOWING DESIGN CRITERIA HAVE BEEN USED FOR THE DESIGN AND SPECIFICATION OF THE STORMWATER DRAINAGE PIPEWORK.

- (i) SUPPORT TYPE: HS2
(ii) CONSTRUCTION: VIBRATORY RAMMER
(iii) EQUIPMENT LOADING: (UP TO 75kg)
(iv) MINIMUM COMPACTED COVER OVER PIPE: 300mm

PROVIDE BRIDGING SLAB UNDER STORMWATER PIPE (>= Ø600). REFER DWG 5941 ENG OPW2 412

SHAFT / PIT BASE

IN FAVOURABLE GROUND CONDITIONS PROVIDE PRECAST CONCRETE PIT BASE (OR EQUIVALENT) TO SUIT SPECIFIED DIAMETER OF SHAFT UP TO I200 DIA.

ALTERNATELY (OR EXCEEDING I200 DIA) PROVIDE 250mm THICK CAST IN-SITU REINFORCED CONCRETE BASE, 2 LAYERS SL82 MESH ON 50MM THICK BLINDING CONCRETE

CONVERTER SLAB TABLE

SHAFT	OFFSET
I200	475
I350	550
I500	625
I800	775
I2100	925

NOTE: PROVIDE DRAINWAY CONVERTER SLAB FOR SHAFTS I200Ø, I500Ø, I800Ø

PIPE / BOX SIZE (mm)

TYPE / CLASS

PIPE / BOX GRADE (%)

PIPE / BOX SLOPE (1 in X)

PIPE / BOX FLOW (cumecs) (39.35% AEP / Q2)

CAPACITY FLOW (cumecs)

PIPE / BOX FLOW VELOCITY (m/s)

CAPACITY FLOW VELOCITY (m/s)

DATUM RL

HGL ELEVATION (39.35% AEP / Q2)	21.441	21.379	21.299	20.757	20.682
	5.423				
DEPTH TO INVERT		1.385	1.111	2.289	2.289
INVERT LEVEL OF DRAIN		21.236	21.182	20.004	20.004
FINISHED SURFACE LEVEL	22.621	22.621	22.293	22.293	22.682
SETOUT COORDINATES (E/N)	2510.036 E 6405.107 N	2507.045 E 6410.641 N	2507.045 E 6410.641 N	2507.045 E 6410.641 N	2507.045 E 6410.641 N
CHAINAGE	0.000	5.423	6.290	6.290	6.290

LINE 208

HGL ELEVATION (39.35% AEP / Q2)	20.722	20.706	20.558	20.262	20.196
	12.985				
DEPTH TO INVERT		1.069	1.206	1.908	1.908
INVERT LEVEL OF DRAIN		20.605	20.476	19.774	19.774
FINISHED SURFACE LEVEL	21.682	21.682	21.682	21.682	21.682
SETOUT COORDINATES (E/N)	2557.206 E 6454.229 N	2557.206 E 6454.229 N	2563.903 E 6442.141 N	2563.903 E 6442.141 N	2563.903 E 6442.141 N
CHAINAGE	0.000	12.985	13.820	13.820	13.820

LINE 209

HGL ELEVATION (39.35% AEP / Q2)	19.838	19.825	19.827	19.754	19.838
	12.985				
DEPTH TO INVERT		1.068	1.206	1.409	1.409
INVERT LEVEL OF DRAIN		19.643	19.513	19.310	19.310
FINISHED SURFACE LEVEL	20.719	20.719	20.719	20.719	20.719
SETOUT COORDINATES (E/N)	2608.698 E 6482.757 N	2608.698 E 6482.757 N	2615.396 E 6470.668 N	2615.396 E 6470.668 N	2615.396 E 6470.668 N
CHAINAGE	0.000	12.985	13.820	13.820	13.820

LINE 211

HGL ELEVATION (39.35% AEP / Q2)	18.114	18.101	18.041	17.958	18.114
	12.985				
DEPTH TO INVERT		1.067	1.206	1.588	1.588
INVERT LEVEL OF DRAIN		18.006	17.876	17.494	17.494
FINISHED SURFACE LEVEL	19.082	19.082	19.082	19.082	19.082
SETOUT COORDINATES (E/N)	2660.489 E 6511.449 N	2660.489 E 6511.449 N	2667.186 E 6499.361 N	2667.186 E 6499.361 N	2667.186 E 6499.361 N
CHAINAGE	0.000	12.985	13.820	13.820	13.820

LINE 213

HGL ELEVATION (39.35% AEP / Q2)	16.459	16.446	16.299	16.195	16.459
	12.985				
DEPTH TO INVERT		1.088	1.206	1.709	1.709
INVERT LEVEL OF DRAIN		16.350	16.221	15.718	15.718
FINISHED SURFACE LEVEL	17.427	17.427	17.427	17.427	17.427
SETOUT COORDINATES (E/N)	2711.684 E 6539.812 N	2711.684 E 6539.812 N	2718.381 E 6527.723 N	2718.381 E 6527.723 N	2718.381 E 6527.723 N
CHAINAGE	0.000	12.985	13.820	13.820	13.820

LINE 215

HGL ELEVATION (39.35% AEP / Q2)	16.393	16.009	15.982	15.972	15.937	15.683
	4.865					
DEPTH TO INVERT		2.603	2.208	2.269	2.394	2.481
INVERT LEVEL OF DRAIN		14.026	14.005	13.944	13.902	13.815
FINISHED SURFACE LEVEL	16.630	16.630	16.214	16.214	16.296	16.296
SETOUT COORDINATES (E/N)	2710.646 E 6567.197 N	2710.646 E 6567.197 N	2716.144 E 6570.254 N	2716.144 E 6570.254 N	2727.525 E 6574.293 N	2727.525 E 6574.293 N
CHAINAGE	0.000	4.865	6.290	6.290	18.367	18.367

LINE 217

HGL ELEVATION (39.35% AEP / Q2)	15.941	15.937	15.937	15.937	15.683	15.941
	1.484					
DEPTH TO INVERT		2.144	2.134	2.134	2.481	2.481
INVERT LEVEL OF DRAIN		14.191	14.162	14.162	13.815	13.815
FINISHED SURFACE LEVEL	16.337	16.337	16.296	16.296	16.296	16.337
SETOUT COORDINATES (E/N)	2728.363 E 6577.079 N	2728.363 E 6577.079 N	2727.525 E 6574.293 N	2727.525 E 6574.293 N	2727.525 E 6574.293 N	2728.363 E 6577.079 N
CHAINAGE	0.000	2.909	2.909	2.909	10.652	10.652

LINE 218

HGL ELEVATION (39.35% AEP / Q2)	16.462	16.450	16.449	16.449	16.398	16.462
	10.872					
DEPTH TO INVERT		1.068	1.235	1.235	2.695	2.695
INVERT LEVEL OF DRAIN		15.978	15.869	15.869	14.409	14.409
FINISHED SURFACE LEVEL	17.054	17.054	17.105	17.105	17.054	17.054
SETOUT COORDINATES (E/N)	2688.375 E 6620.196 N	2688.375 E 6620.196 N	2699.622 E 6624.477 N	2699.622 E 6624.477 N	2699.622 E 6624.477 N	2688.375 E 6620.196 N
CHAINAGE	0.000	10.872	12.040	12.040	10.872	10.872

LINE 219

HGL ELEVATION (39.35% AEP / Q2)	16.457	16.449	16.449	16.449	16.398	16.457
	0.743					
DEPTH TO INVERT		1.220	1.311	1.311	2.695	2.695
INVERT LEVEL OF DRAIN		15.800	15.793	15.793	14.409	14.409
FINISHED SURFACE LEVEL	17.026	17.026	17.105	17.105	17.026	17.026
SETOUT COORDINATES (E/N)	2701.291 E 6625.405 N	2701.291 E 6625.405 N	2699.622 E 6624.477 N	2699.622 E 6624.477 N	2699.622 E 6624.477 N	2701.291 E 6625.405 N
CHAINAGE	0.000	0.743	1.910	1.910	0.743	0.743

LINE 220

HGL ELEVATION (39.35% AEP / Q2)	17.040	17.031	17.031	17.036	16.835	17.040
	1.556					
DEPTH TO INVERT		1.070	1.175	1.175	3.398	3.398
INVERT LEVEL OF DRAIN		16.798	16.783	16.783	14.560	14.560
FINISHED SURFACE LEVEL	17.873	17.873	17.959	17.959	17.873	17.873
SETOUT COORDINATES (E/N)	2676.387 E 6671.336 N	2676.387 E 6671.336 N	2674.380 E 6669.873 N	2674.380 E 6669.873 N	2676.387 E 6671.336 N	2676.387 E 6671.336 N
CHAINAGE	0.000	1.556	2.498	2.498	1.556	1.556

LINE 221

HGL ELEVATION (39.35% AEP / Q2)	15.404	15.403	15.274	14.706	15.404	15.404
	10.571					
DEPTH TO INVERT		1.073	1.255	1.255	1.255	1.255
INVERT LEVEL OF DRAIN		15.357	15.236	15.236	14.560	14.560
FINISHED SURFACE LEVEL	16.431	16.431	16.492	16.492	16.431	16.431
SETOUT COORDINATES (E/N)	2777.759 E 6558.698 N	2777.759 E 6558.698 N	2777.552 E 6546.666 N	2777.552 E 6546.666 N	2777.759 E 6558.698 N	2777.759 E 6558.698 N
CHAINAGE	0.000	10.571	12.038	12.038	10.571	10.571

LINE 222

Client:



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(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5 OF 14

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
ISSUE	Date	Description	DRN	CHK	

SCALE IN METRES

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

VERT: Scale 1:50 - Lengths are in Metres.
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW1 514

Rev. No:
B

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 5 OF 14

STRUCTURE NAME	1/233	23/X2
STRUCTURE DESCRIPTION	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CONVERTOR SLAB AND 900x900 FI WITH GALV. GRATE CI. D	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CONVERTOR SLAB AND 900x900 FI WITH GALV. GRATE CI. D

DESIGN OF STORMWATER DRAINAGE PIPEWORK

THE FOLLOWING DESIGN CRITERIA HAVE BEEN USED FOR THE DESIGN AND SPECIFICATION OF THE STORMWATER DRAINAGE PIPEWORK.

- (i) SUPPORT TYPE: HS2
(ii) CONSTRUCTION: VIBRATORY RAMMER
(iii) EQUIPMENT LOADING: (UP TO 75kg)
(iv) MINIMUM COMPACTED COVER OVER PIPE: 300mm

PROVIDE BRIDGING SLAB UNDER STORMWATER PIPE (>= Ø600). REFER DWG 5941 ENG OPW2 412

SHAFT / PIT BASE

IN FAVOURABLE GROUND CONDITIONS PROVIDE PRECAST CONCRETE PIT BASE (OR EQUIVALENT) TO SUIT SPECIFIED DIAMETER OF SHAFT UP TO 1200 DIA.

ALTERNATELY (OR EXCEEDING 1200 DIA) PROVIDE 250mm THICK CAST IN-SITU REINFORCED CONCRETE BASE, 2 LAYERS SL82 MESH ON 50MM THICK BLINDING CONCRETE

CONVERTER SLAB TABLE

SHAFT	OFFSET
1200	475
1350	550
1500	625
1800	775
2100	925

NOTE: PROVIDE DRAINWAY CONVERTER SLAB FOR SHAFTS 1200Ø, 1500Ø, 1800Ø

PIPE / BOX SIZE (mm)

TYPE / CLASS

PIPE / BOX GRADE (%)

PIPE / BOX SLOPE (1 in X)

PIPE / BOX FLOW (cumecs) (39.35% AEP / Q2)

CAPACITY FLOW (cumecs)

PIPE / BOX FLOW VELOCITY (m/s)

CAPACITY FLOW VELOCITY (m/s)

DATUM RL

HGL ELEVATION (39.35% AEP / Q2)	13.178	12.560	12.533	12.265
DEPTH TO INVERT	4.165	1.963	1.963	2.070
INVERT LEVEL OF DRAIN	11.065	10.992	10.885	10.885
FINISHED SURFACE LEVEL	15.225	13.055		
SETOUT COORDINATES (E/N)	3068.977 E 6770.327 N	3067.553 E 6761.538 N		
CHAINAGE	0.000	8.904	6.804	

LINE 233

1/234	20/201
CUSTOM ACCESS CHAMBER WITH CONVERTOR SLAB AND 1500x2000 FI WITH GALV. GRATE CI. D	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CONVERTOR SLAB AND 900x900 FI WITH GALV. GRATE CI. D
825 3	450 3
1.07% 93.8	1.00% 100.0
0.971 1.606	0.070 0.309
1.82 3.15	0.44 1.57
2.000	1.000
13.178 12.560	12.404 12.358
4.165 1.963	1.367 1.590
11.065 10.992	11.475 11.260
15.225 13.055	12.990 12.998
3068.977 E 6770.327 N	3024.942 E 6498.400 N
0.000	23.373

LINE 234

1/235	22/201
CUSTOM ACCESS CHAMBER WITH CONVERTOR SLAB AND 1500x2000 FI WITH GALV. GRATE CI. D	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CONVERTOR SLAB AND 900x900 FI WITH GALV. GRATE CI. D
525 3	450 3
1.00% 100.0	1.03% 96.6
0.253 0.466	0.046 0.314
1.17 2.20	0.29 1.41
1.000	1.000
12.331 11.994	12.679 12.657
1.634 1.691	1.191 1.187
11.285 11.085	11.808 11.763
12.919 12.823	13.000 13.000
3049.536 E 6479.498 N	3044.108 E 6501.239 N
0.000	21.757

LINE 235

1/236	18/201
STD IPWEA ACCESS CHAMBER 1800mm DIA WITH CONVERTOR SLAB AND 1200x1200 FI WITH GALV. GRATE CI. D	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CONVERTOR SLAB AND 900x900 FI WITH GALV. GRATE CI. D
450 3	450 3
1.03% 96.6	1.03% 96.6
0.046 0.314	0.046 0.314
0.29 1.41	0.29 1.41
1.000	1.000
12.679 12.657	12.679 12.657
1.191 1.187	1.191 1.187
11.808 11.763	11.808 11.763
13.000 13.000	13.000 13.000
2943.107 E 6505.736 N	2944.072 E 6511.630 N
0.000	4.322

LINE 236

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 7 OF 14



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

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
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Contour Interval: -
PSM: -
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DRAWING TITLE
STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 7 OF 14

B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES

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

Scale 1:50 - Lengths are in Metres.
VERT: 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW1 516

Rev. No:
B

LINE X2

G:\Projects\5941\ENGINEERING\Acad\CIVIL WORKS STAGE 2\Current\5941 ENG OPW2 510.dwg



Client:



Project:

VANTAGE YATALA STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 9 OF 14

B	10/09/21	INFORMATION REQUEST RESPONSE		LAB	MG
A	330721	ORIGINAL ISSUE		LAB	MG
	Date	Description		DRN	CHK

SCALE IN METRES

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

Scale 1:50 - Lengths are in Metres.

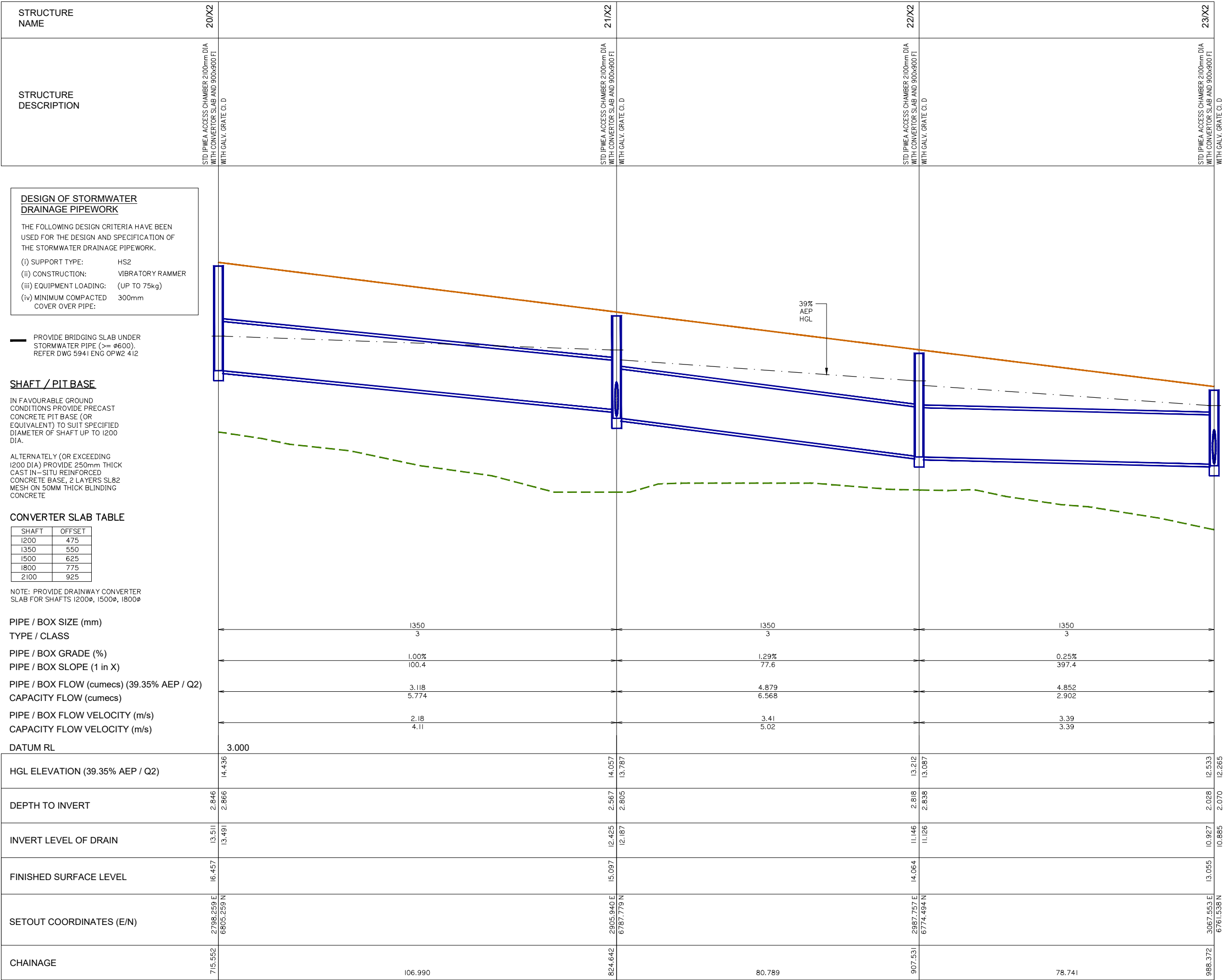
VERT: 

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW1 518

Rev. No:
B



STORMWATER LONGITUDINAL SECTIONS SHEET 11 OF 14



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Client:



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Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 11 OF 14

B	10/09/21	INFORMATION REQUEST RESPONSE			LAB MG
A	30/07/21	ORIGINAL ISSUE			LAB MG
Issued	Date	Description			DRN CHK

SCALE IN METRES

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

Scale 1:50 - Lengths are in Metres.
VERT: 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: AS SHOWN

Designed: IG

Drafted: LAB / IG

Approved: MG

RPEQ: 16939

Signed:

Date: 10/09/2021

Drawing No:
5941 ENG OPW1 520

Rev. No:
B

24/X2	ACCESS CHAMBER "SPLITTER PIT /ORIFICE" 2100mm DIA WITH CLASS D LID REFER DETAIL ON DWG 5941 ENG OF W2 590	290/2
	STD IPWEA ACCESS CHAMBER 1800mm DIA WITH CLASS D LID	290/3
	900mm DIA OUTLET HEADWALL INSTALL GALV TUBULAR HANDRAIL REFER LOCAL AUTHORITY STD DWG	

24/X2	ACCESS CHAMBER "SPLITTER PIT /ORIFICE" 2100mm DIA WITH CLASS D LID REFER DETAIL ON DWG 5941 ENG OF W2 590	290/2
	STD IPWEA ACCESS CHAMBER 1800mm DIA WITH CLASS D LID	290/3
	900mm DIA OUTLET HEADWALL INSTALL GALV TUBULAR HANDRAIL REFER LOCAL AUTHORITY STD DWG	

ACCESS CHAMBER "SPLITTER PIT/ORIFICE"

E 112 OF 14

ENDING END

LINE 292



STRUCTURE NAME	292/3	292/4	292/5	292/6	292/7	293/1	293/2												
STRUCTURE DESCRIPTION	uPVC BEND	uPVC BEND	uPVC BEND	STD IPWEA ACCESS CHAMBER 1050mm DIA WITH CONVERTOR SLAB AND 600x600 FT WITH GALV. GRATE CI. D	STD IPWEA ACCESS CHAMBER 1050mm DIA WITH CONVERTOR SLAB AND 600x600 FT WITH GALV. GRATE CI. D	STD IPWEA ACCESS CHAMBER 1050mm DIA WITH CONVERTOR SLAB AND 600x600 FT WITH GALV. GRATE CI. D	uPVC BEND												
DESIGN OF STORMWATER DRAINAGE PIPEWORK	THE FOLLOWING DESIGN CRITERIA HAVE BEEN USED FOR THE DESIGN AND SPECIFICATION OF THE STORMWATER DRAINAGE PIPEWORK. (i) SUPPORT TYPE: HS2 (ii) CONSTRUCTION: VIBRATORY RAMMER (iii) EQUIPMENT LOADING: (UP TO 75kg) (iv) MINIMUM COMPACTED COVER OVER PIPE: 300mm																		
SHAFT / PIT BASE	IN FAVOURABLE GROUND CONDITIONS PROVIDE PRECAST CONCRETE PIT BASE (OR EQUIVALENT) TO SUIT SPECIFIED DIAMETER OF SHAFT UP TO 1200 DIA. ALTERNATELY (OR EXCEEDING 1200 DIA) PROVIDE 250mm THICK CAST IN-SITU REINFORCED CONCRETE BASE, 2 LAYERS SL82 MESH ON 50MM THICK BLINDING CONCRETE																		
CONVERTER SLAB TABLE	<table><tr><th>SHAFT</th><th>OFFSET</th></tr><tr><td>1200</td><td>475</td></tr><tr><td>1350</td><td>550</td></tr><tr><td>1500</td><td>625</td></tr><tr><td>1800</td><td>775</td></tr><tr><td>2100</td><td>925</td></tr></table> NOTE: PROVIDE DRAINWAY CONVERTER SLAB FOR SHAFTS 1200ø, 1500ø, 1800ø							SHAFT	OFFSET	1200	475	1350	550	1500	625	1800	775	2100	925
SHAFT	OFFSET																		
1200	475																		
1350	550																		
1500	625																		
1800	775																		
2100	925																		
PIPE / BOX SIZE (mm)	225	225	225	300	375	225													
TYPE / CLASS	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8	uPVC SN8													
PIPE / BOX GRADE (%)	0.40%	0.40%	0.40%	0.30%	0.30%	0.40%													
PIPE / BOX SLOPE (1 in X)	250.0	250.0	250.0	333.3	333.3	250.0													
PIPE / BOX FLOW (cumecs) (4EY, Q3mth)	0.000	0.000	0.000	0.053	0.106	0.000													
CAPACITY FLOW (cumecs)	0.028	0.028	0.028	0.053	0.096	0.028													
PIPE / BOX FLOW VELOCITY (m/s)	0.00	0.00	0.00	0.75	0.96	0.00													
CAPACITY FLOW VELOCITY (m/s)	0.00	0.00	0.00	0.85	0.96	0.00													
DATUM RL	4.000		2.000			0.000													
HGL ELEVATION (4EY, Q3mth)	10.039	10.039	10.039	9.961	9.728	9.440													
DEPTH TO INVERT	1.260	1.428	1.458	1.901	2.088	2.372													
INVERT LEVEL OF DRAIN	9.210	9.042	9.012	8.869	8.612	8.398													
FINISHED SURFACE LEVEL	10.470	10.470	10.470	10.470	10.470	10.470													
SETOUT COORDINATES (E/N)	3112.935 E 6926.314 N	3113.076 E 6884.379 N	3112.571 E 6876.824 N	3106.805 E 6841.530 N	3094.400 E 6764.927 N	3084.035 E 6701.233 N													
CHAINAGE	-136.131	-94.196	7.572	35.761	77.601	64.532													

STRUCTURE NAME	293/2	293/3	293/4	293/5	293/6	294/1	294/2												
STRUCTURE DESCRIPTION	uPVC BEND	STD IPWEA ACCESS CHAMBER 1050mm DIA WITH CONVERTOR SLAB AND 600x600 FI WITH GALV. GRATE CI. D	STD IPWEA ACCESS CHAMBER 1050mm DIA WITH CONVERTOR SLAB AND 600x600 FI WITH GALV. GRATE CI. D	STD IPWEA ACCESS CHAMBER 1050mm DIA WITH CONVERTOR SLAB AND 600x600 FI WITH GALV. GRATE CI. D	450mm DIA OUTLET HEADWALL. INSTALL GALV TUBULAR HANDRAIL. REFER LOCAL AUTHORITY STD DWG	3 / 450mm DIA OUTLET HEADWALL. INSTALL GALV TUBULAR HANDRAIL. REFER LOCAL AUTHORITY STD DWG	3 / 450mm DIA INLET HEADWALL. INSTALL GALV TUBULAR HANDRAIL. REFER LOCAL AUTHORITY STD DWG												
DESIGN OF STORMWATER DRAINAGE PIPEWORK	THE FOLLOWING DESIGN CRITERIA HAVE BEEN USED FOR THE DESIGN AND SPECIFICATION OF THE STORMWATER DRAINAGE PIPEWORK. (i) SUPPORT TYPE: HS2 (ii) CONSTRUCTION: VIBRATORY RAMMER (iii) EQUIPMENT LOADING: (UP TO 75kg) (iv) MINIMUM COMPACTED COVER OVER PIPE: 300mm																		
SHAFT / PIT BASE	IN FAVOURABLE GROUND CONDITIONS PROVIDE PRECAST CONCRETE PIT BASE (OR EQUIVALENT) TO SUIT SPECIFIED DIAMETER OF SHAFT UP TO 1200 DIA. ALTERNATELY (OR EXCEEDING 1200 DIA) PROVIDE 250mm THICK CAST IN-SITU REINFORCED CONCRETE BASE, 2 LAYERS SL82 MESH ON 50MM THICK BLINDING CONCRETE																		
CONVERTER SLAB TABLE	<table><tr><th>SHAFT</th><th>OFFSET</th></tr><tr><td>1200</td><td>475</td></tr><tr><td>1350</td><td>550</td></tr><tr><td>1500</td><td>625</td></tr><tr><td>1800</td><td>775</td></tr><tr><td>2100</td><td>925</td></tr></table> NOTE: PROVIDE DRAINWAY CONVERTER SLAB FOR SHAFTS 1200ø, 1500ø, 1800ø							SHAFT	OFFSET	1200	475	1350	550	1500	625	1800	775	2100	925
SHAFT	OFFSET																		
1200	475																		
1350	550																		
1500	625																		
1800	775																		
2100	925																		
PIPE / BOX SIZE (mm)	225 uPVC SN8 300 uPVC SN8 300 uPVC SN8 450 3 (3x)450 3																		
TYPE / CLASS	225 uPVC SN8 300 uPVC SN8 300 uPVC SN8 450 3 (3x)450 3																		
PIPE / BOX GRADE (%)	0.40% 0.30% 0.30% 1.13% 1.15%																		
PIPE / BOX SLOPE (1 in X)	250.0 333.3 333.3 88.6 87.3																		
PIPE / BOX FLOW (cumecs) (4EY, Q3mth)	0.000 0.053 0.106 0.265 0.211																		
CAPACITY FLOW (cumecs)	0.028 0.053 0.053 0.303 0.916																		
PIPE / BOX FLOW VELOCITY (m/s)	0.00 0.75 1.50 1.67 0.44																		
CAPACITY FLOW VELOCITY (m/s)	0.00 0.85 1.50 2.15 1.56																		
DATUM RL	0.000																		
HGL ELEVATION (4EY, Q3mth)	10.267	10.267	9.972	9.440	9.034	11.147	11.253												
DEPTH TO INVERT	1.340	1.929	2.182	2.299	0.820	0.750	0.760												
INVERT LEVEL OF DRAIN	9.130	8.841	8.588	8.471	8.214	11.000	11.070												
FINISHED SURFACE LEVEL	10.470	10.470	10.470	10.470	8.214	11.000	11.070												
SETOUT COORDINATES (E/N)	3055.018 E 6521.415 N	3066.487 E 6592.557 N	3078.895 E 6669.179 N	3084.035 E 6701.233 N	3101.261 E 6719.443 N	3098.220 E 6718.469 N	3092.187 E 6719.443 N												
CHAINAGE	10.221	82.282	159.901	192.365	209.814	0.000	6.111												

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Project:				
VANTAGE YATALA STAGE 2				
Site Address:				
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207				
THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR				
RPD:				
Lot:		501		
Plan:		SP295994		
Local Authority:		CITY OF GOLD COAST COUNCIL		
Level Datum:		AHD		
Meridian:		-		
Contour Interval:		-		
PSM:		-		
RL:		-		
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DRAWING TITLE				
STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 14 OF 14				
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK
SCALE IN METRES				
Scale 1:500 - Lengths are in Metres.				
HORIZ:				
VERT:				
Scale at A1:		AS SHOWN		
Designed:		IG		
Drafted:		LAB / IG		
Approved:		MG		
RPEQ:		16939		
Signed:				
Date:		10/09/2021		
Drawing No:		Rev. No:		
5941 ENG OPW1 523		B		

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VANTAGE YATALA STAGE 2					
Site Address:					
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207					
THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR					
RPD:					
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Plan:		SP295994			
Local Authority:		CITY OF GOLD COAST COUNCIL			
Level Datum:		AHD			
Meridian:		-			
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DRAWING TITLE					
STORMWATER DRAINAGE CALCULATION TABLES SHEET 1 OF 6					
B	10/09/21	INFORMATION REQUEST RESPONSE		LAB	MG
A	30/07/21	ORIGINAL ISSUE		LAB	MG
Issue	Date	Description		DRN	CHK
SCALE IN METRES					
NOT APPLICABLE					
Scale at A1:		NOT APPLICABLE			
Designed:		IG			
Drafted:		LAB / IG			
Approved:		MG			
RPEQ:		16939			
Signed:					
Date:		10/09/2021			
Drawing No:				Rev. No:	
5941 ENG OPW1 550				B	

DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	LAND USE	SLOPE OF CATCHMENT	TIME		SUB-CATCHMENT RUNOFF							INLET DESIGN										HEADLOSSES														PART FULL		DESIGN LEVELS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Project:					
VANTAGE YATALA STAGE 2					
Site Address:					
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207					
THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL Application No.: OPW/2021/1255 Dated: 25 October 2021 Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies					
RL: -					
ISSUED FOR APPROVAL NOT FOR CONSTRUCTION					
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DRAWING TITLE					
STORMWATER DRAINAGE CALCULATION TABLES SHEET 2 OF 6					
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	
SCALE IN METRES					
NOT APPLICABLE					
Scale at A1:					
NOT APPLICABLE					
Designed:		IG			
Drafted:		LAB / IG			
Approved:		MG			
RPEQ:		16939			
Signed:					
Date:		10/09/2021			
Drawing No:				Rev. No:	
5941 ENG OPW1 551				B	

G:\Projects\5941\ENGINEERING\Acad\CIVIL WORKS STAGE 2\Current\5941 ENG OPW2 550.dwg

STORMWATER DRAINAGE CALCULATION TABLES SHEET 3 OF 6



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

RPD:

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

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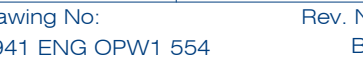
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	M	
A	30/07/21	ORIGINAL ISSUE	LAB	M	
Issue	Date	Description	DRN	CH	

Scale at A1: NOT APPLICABLE

Drawing No:	Rev. No:
5941 ENG OPW1 552	B

12d Model RUNOFF 'C' METHOD	DIRECT	C2 VALUE	0.73	C10 VALUE	0.86	C100 VALUE	1.00
-----------------------------	--------	----------	------	-----------	------	------------	------

LOCATION					TIME		SUB-CATCHMENT RUNOFF										INLET DESIGN										DRAIN DESIGN										HEADLOSSES										PART FULL		DESIGN LEVELS						
DESIGN ARI	STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	LAND USE	SLOPE OF CATCHMENT	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	JOINT RUNOFF CO-EFFICIENT	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUM OF (C/A)	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (W/C BYPASS)	ROAD GRADE AT INLET	MINOR FLOW ROAD CAPACITY	INLET TYPE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C/A)	MAJOR TOTAL FLOW	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE /BOX DIMENSIONS (CLASS)	FLOW VELOCITY FULL (PIPE GRADE VELOCITY)	TIME OF FLOW IN REACH	STRUCTURE CHART No.	STRUCTURE RATIOS FOR 'K' VALUE CALCULATIONS	VELOCITY HEAD	U/S HEADLOSS COEFFICIENT	U/S PIPE STRUCTURE HEADLOSS	LAT. HEADLOSS CO-EFFICIENT	LAT. PIPE STRUCTURE HEADLOSS	W.S.E CO-EFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L/S)	DEPTH	VELOCITY	PIPE U/S LL	PIPE D/S LL	PIPE U/S H.G.L	PIPE D/S H.G.L	W.S.E	SURFACE OF K&C IN VERT. LEVEL	STRUCTURE No.			
YRS					%	min	mm/h			ha	ha	ha	l/s	l/s	%	l/s		l/s	l/s		min	mm/h	ha	l/s	l/s	l/s	l/s	m	%	mm	m/s	min.			m		m			m		m	m/s	m	m	m	m	m	m	m	m				
2	100	1/222	1/222 to 13/201			5	138	0.86	0.73	0.015	0.015	0.015	4	4	1	1128	GRADE_BK_2400_Lip	4	0	1/224	5	138	0.011	13		13	4	10.57	1.14	375	3	0.0	0.007	1/222	G2	0	9.7	0.001				0.001	1.22	0.116	0.038	0.7	15.36	15.24	15.4	15.27	15.4	16.43	1/222		
2	100	13/201	13/201 to 14/201										W/D = 0.467	0.04			ACC_CHA_2100				6.22	132	4.19	4626		1739	31.42	0.83	1050	3	2.0	1.053	13/201	T1/T2	0.206	0.24	0.049				0.049	0.35	0.108	0.613	3.3	13.16	12.9	14.66	14.55	14.71	16.49	13/201			
2	100	1/223	1/223 to 2/223			5	138	0.86	0.73	0.281	0.207	0.207	79	79	174	900x900 FI	79	0		5	138	0.207	237		237	79	5.423	1.16	375	3	0.7	0.065	1/223	G1	0.026	7	0.185				0.185	1.97	0.036	0.162	1.7	15.19	15.12	15.39	15.29	15.58	16.76	1/223			
2	100	2/223	2/223 to 13/201			5	138	0.86	0.73	0.07	0.052	0.052	20	20	1	1128	1TCS0_UNCHECKED	20	0	1/225	5.05	138	0.259	295		86	99	1.246	2.06	450	3	0.6	0.013	2/223	T4/T8	0.02	1.34	0.027		1.5	0.03	8.02	0	0.145	2.3	15.01	14.98	15.23	15.13	15.26	16.43	2/223			
2	100	13/201	13/201 to 14/201										W/D = 1.408	0.068			ACC_CHA_2100				6.22	132	4.19	4626		1739	31.42	0.83	1050	3	2.0	1.053	13/201	T1/T2	0.206	0.24	0.049				0.049	0.35	0.108	0.613	3.3	13.16	12.9	14.66	14.55	14.71	16.49	13/201			
2	100	1/224	1/224 to 14/201			5	138	0.86	0.73	0.052	0.038	0.038	15	15	0.67	220	2TCS0_SAG_UNCHECKED	15	0		5	138	0.038	44		46	15	12.33	1	375	3	0.1	0.027	1/224	G1	0.001	7	0.006				0.006	1.12	0.116	0.071	1.0	15.05	14.92	15.13	15	15.14	16.12	1/224		
2	100	14/201	14/201 to 15/201										W/D = 0	0	0.004		ACC_CHA_2100				6.37	131	4.255	4681		1754	33.97	1	1050	3	2.0	1.149	14/201	T1/T2	0.209	0.2	0.043				0.043	0.35	0.119	0.582	3.6	12.85	12.51	14.51	14.39	14.55	16.16	14/201			
2	100	1/225	1/225 to 14/201			5	138	0.86	0.73	0.036	0.027	0.027	10	10	1	1128	1TCS0_UNCHECKED	10	0	1/228	5	138	0.027	31		82	10	1.246	2.06	375	3	0.1	0.002	1/225	G2	0	9.7	0.004				0.004	3.82	0.001	0.05	1.2	15.02	14.99	15.09	15.04	15.09	16.09	1/225		
2	100	14/201	14/201 to 15/201										W/D = 0.998	0.056			ACC_CHA_2100				6.37	131	4.255	4681		1754	33.97	1	1050	3	2.0	1.149	14/201	T1/T2	0.209	0.2	0.043				0.043	0.35	0.119	0.582	3.6	12.85	12.51	14.51	14.39	14.55	16.16	14/201			
2	100	1/226	1/226 to 2/226			5	138	0.86	0.73	1.962	1.447	1.447	555	555		1082	1800x900x900 FI	555	0		5	138	1.447	1654		1653	555	6.642	0.48	750	3	1.3	0.139	1/226	G2	0.08	6.85	0.551				0.551	0.21	0.014	0.446	2.0	13.5	13.47	14.48	14.47	15.03	16.66	1/226		
2	100	2/226	2/226 to 15/201										W/D = 0	0	0.263		ACC_CHA_1350				5.05	138	1.447	1654		554	27.28	0.56	750	3	1.3	0.568	2/226	T1/T2	0.08	0.25	0.02				0.02	0.21	0.057	0.424	2.2	13.42	13.27	14.45	14.39	14.47	16.31	2/226			
2	100	15/201	15/201 to 16/201										W/D = 0	0			ACC_CHA_2100				6.53	131	5.715	6250		2275	6.365	1.02	1050	3	2.6	0.279	15/201	T4/T8	0.352	1	0.351		1.03	0.363	0.59	0.038	0.687	3.8	12.42	12.35	14.04	14	14.4	15.59	15/201				
2	100	1/228	1/228 to 2/228			5	138	0.86	0.73	0.198	0.146	0.146	56	56		240	4TCS0_SAG_UNCHECKED	56	0		5	138	0.146	167		187	56	5.178	1	525	3	0.3	0.022	1/228	G1	0.003	7	0.024				0.024	-0.05	0.002	0.123	1.5	13.79	13.74	14.05	14.06	14.08	15.51	1/228		
2	100	2/228	2/228 to 16/201			5	138	0.86	0.73	0.292	0.215	0.215	82	82		174	900x900 FI	82	0		5.06	138	0.361	411		246	138	5.19	2	525	3	0.6	0.055	2/228	G2/T10	0.021	3.7	0.077		4	0.083	-0.36	0.006	0.163	2.4	13.66	13.55	13.98	14	14.06	15.84	2/228			
2	100	16/201	16/201 to 17/201										W/D = 0	0	0.091		ACC_CHA_1800				6.56	131	6.081	6645		2405	47.11	1.35	1050	3	2.8	2.183	16/201	T8/T10	0.394	1.63	0.64		1.84	0.723	0.66	0.311	0.647	4.3	12.18	11.54	13.36	13.05	14.08	15.83	16/201				
2	100	1/229	1/229 to 18/201			5	138	0.86	0.73	2.061	1.521	1.521	583	583		1923	1200x1200 FI	583	0		5	138	1.521	1737		1737	583	4.9	0.4	750	3	1.3	0.108	1/229	G1	0.089	4.18	0.371				0.371	0.23	0.011	0.491	1.9	11.01	10.99	12.36	12.35	12.73	15.05	1/229		
2	100	20/201	20/201 to 21/201			5	138	0.86	0.73	0.017	0.013	0.013	5	5		94	2100x900x900 FI	5	0		7.63	125	7.991	8528		14	2983	14.13	0.1	1200																									

[illegible]

[illegible]

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

VANTAGE YATALA STAGE 2

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

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

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
STORMWATER DRAINAGE
CALCULATION TABLES
SHEET 6 OF 6

[illegible]

NOT APPLICABLE

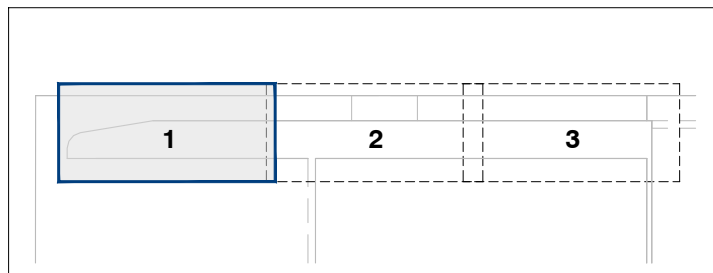
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Drafted:	LAB / IG
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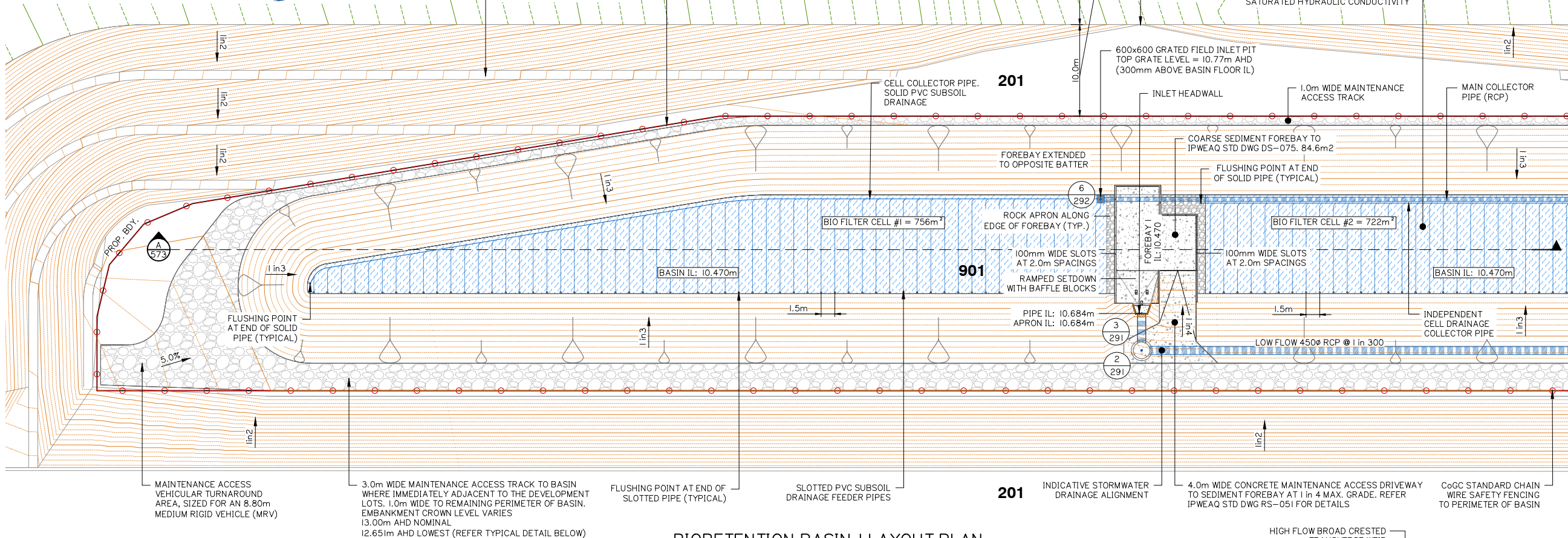
RPEQ:	16939
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Date:	10/09/2021
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Rev. No
B



KEY PLAN
SCALE 1:3000



DETENTION BASIN VOLUME TABLE *

- 14,789m³ TO CROWN (RL.12.651)
- 8,076m³ TO 1% AEP WSL (RL.11.946)
- 5,073m³ TO WEIR LEVEL (RL.11.570)

* DEDUCTING 0.30m EXTENDED DETENTION VOLUME OF 1,446m³

BIO-RETENTION NOTES:

MINIMUM BIO-RETENTION 'PROFILE' IS TO BE 1.10m AND IS TO CONSIST OF THE FOLLOWING:

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

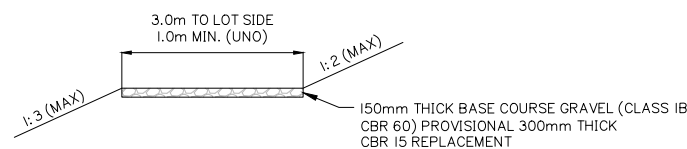
* 0.15m OF COARSE SAND. PARTICLE SIZE TYPICALLY 0.5-2.0mm.

* 0.25m OF GRAVEL DRAINAGE. PARTICLE SIZE 5-7mm SCREENING.

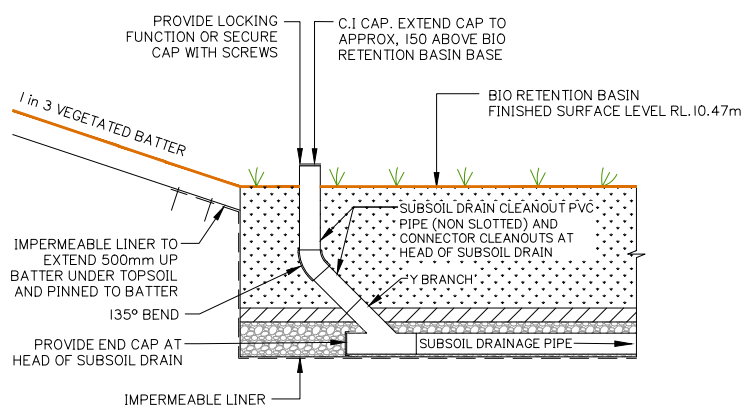
BIO RETENTION - COARSE SEDIMENT FOREBAY SIZING GUIDE CALCULATIONS		
$V_s = A_c \times R \times L_o \times F$		= 11.0722m ³
$R = 1 - \left[1 + \frac{1}{n} \times \frac{V_s}{Q/A_f} \right]^n$		
$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 2.7508/A_f} \right]^{-0.5}$	$A_f = 330.1 \text{ m}^2$	
$D_s = \frac{V_s}{A_f}$	$D_s = \frac{11.0722}{330.1}$	= 0.034 m
OPTIMIZATION OF MINIMUM FOREBAY SIZE:		
$D_s = \frac{11.0722 \text{ m}^3}{253.977 \text{ m}^2}$		= 0.044 m
CALCULATED FOR 3 FOREBAYS AT 84.659m ² ea.		
$V_s = 11.0722 \text{ m}^3$ (Workings Above)		
$A_c = 23.067 \text{ ha}$ (Refer Catchment Plans)		
UNMITIGATED POST-DEVELOPMENT FLOW $Q = 2.7508 \text{ m}^3/\text{s}$ (3 month ARI)		
$V_s = 0.1 \text{ m}^3/\text{s}$ (Recommended for Imm Particle)		
$R = 0.8$ (Recommended 80% Capture)		
$L_o = 0.6$ (From Healthy Waterways Guide)		
$n = 0.5$ (Recommended Turbulence)		
$F_c = 1.0$ (Frequency of Clean Out / Yr)		
REFER TO BIO RETENTION TECHNICAL DESIGN GUIDELINES FOR FURTHER INFORMATION		

AEP (%)	MAX. WATER ELEVATION (m) A.H.D.	MAX. WATER DEPTH (m)
63.2	11.484	1.014
0.5EY	11.627	1.157
20	11.722	1.252
10	11.789	1.319
5	11.844	1.374
2	11.902	1.432
1	11.946	1.476

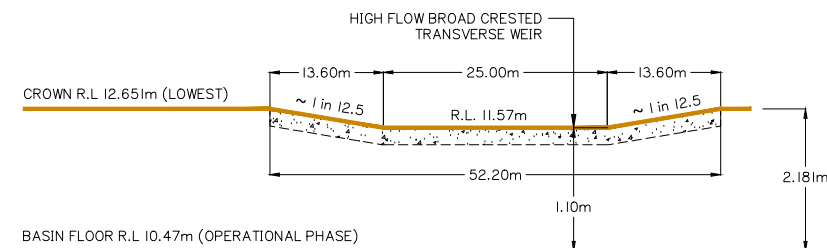
BIORETENTION BASIN I LAYOUT PLAN
SCALE 1:250 (A1)



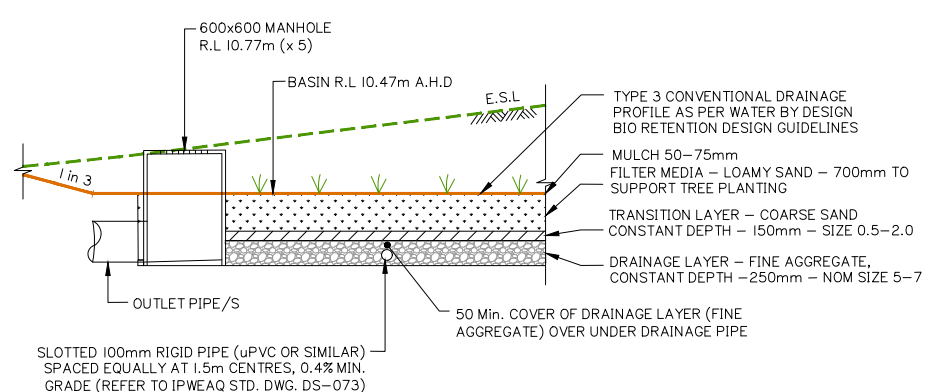
MAINTENANCE ACCESS TRACK - TYPICAL SECTION
N.T.S.



SUBSOIL DRAIN CLEANOUT - IN BASIN
N.T.S.



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



TYPICAL BIO-RETENTION BASIN DETAIL
N.T.S.

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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BE PRINTED IN COLOUR

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: OPW/2021/1255

Dated: 25 October 2021

Development shall comply with the
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DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 1 OF 4

Rev.	Date	Description	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



1:250 (FULL SIZE A1)
1:500 (HALF SIZE A3)

Scale at A1: 1:250

Designed: IG

Drafted: LAB / IG

Approved: MG

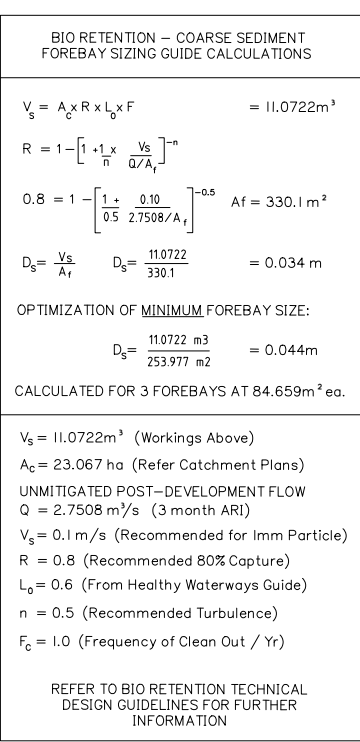
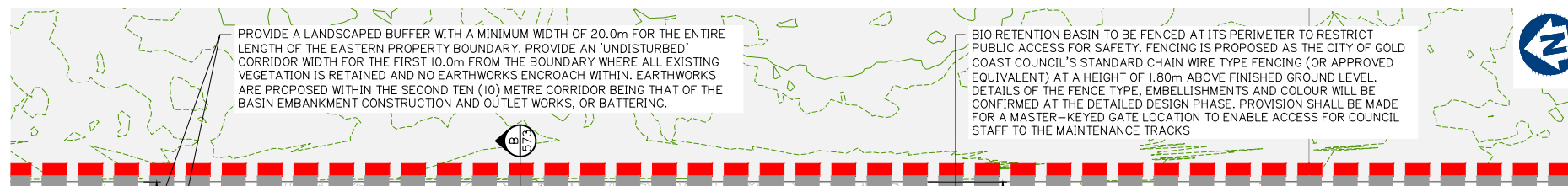
RPEQ: 16939

Signed:

Date: 10/09/2021

Drawing No:
5941 ENG OPW2 570

Rev. No:
B

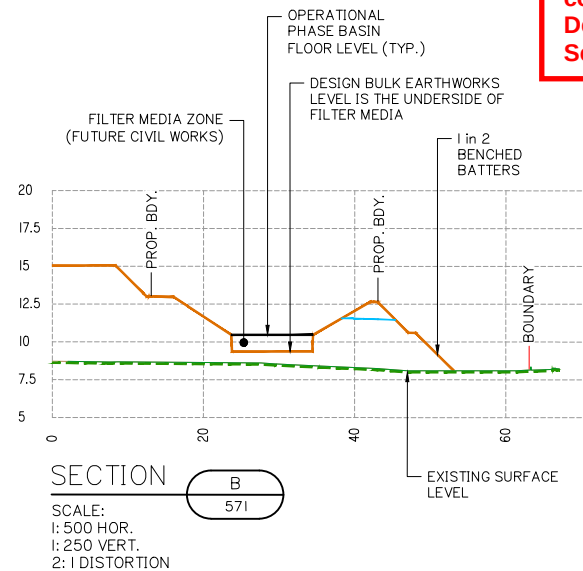


PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

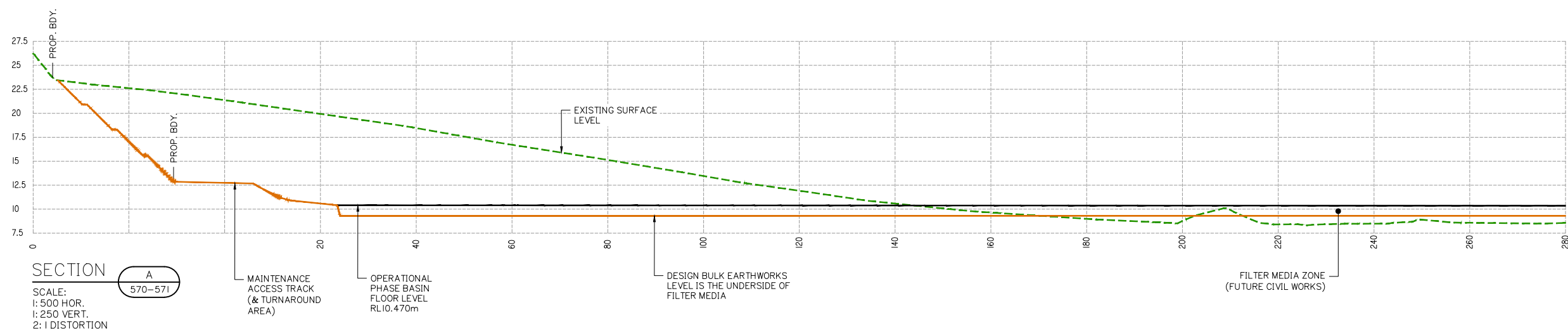
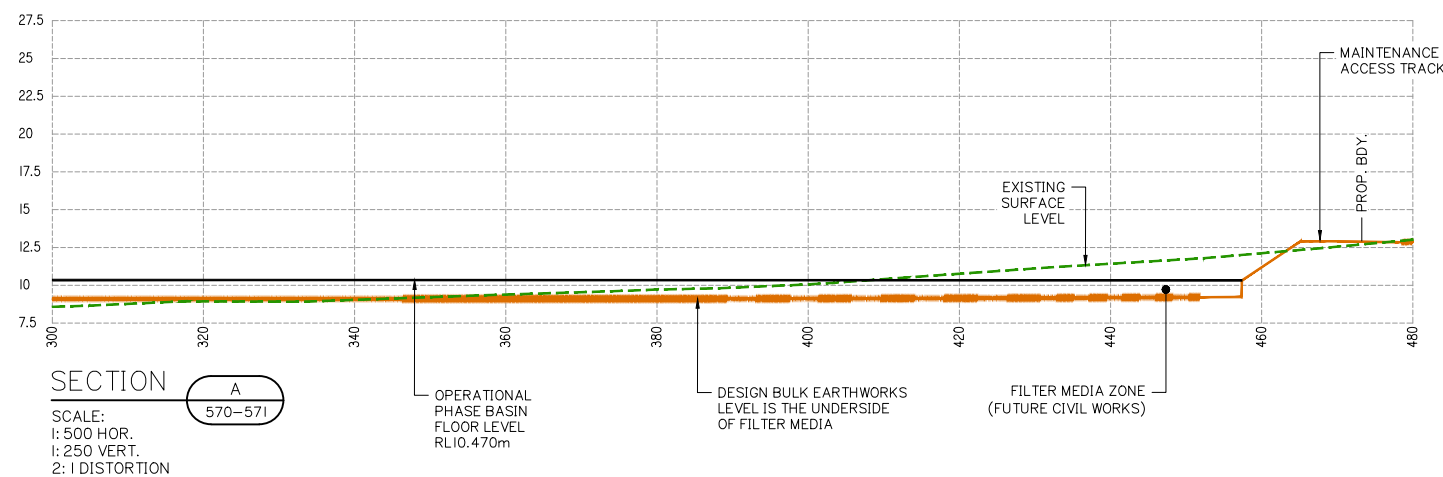
Dated: 25 October 2021

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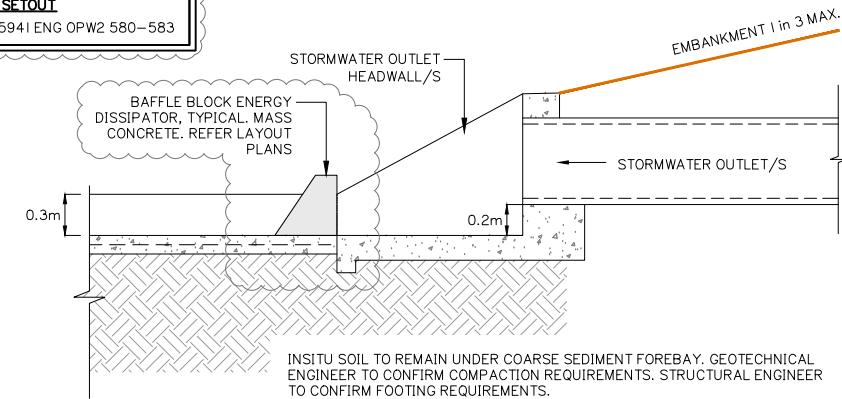
NOTE:

- I. BASIN INUNDATION DEPTHS OMITTED FROM CROSS SECTIONS FOR CLARITY. REFER TO CALCULATION TABLES ON DRAWINGS 5941 ENG BE2 570-572



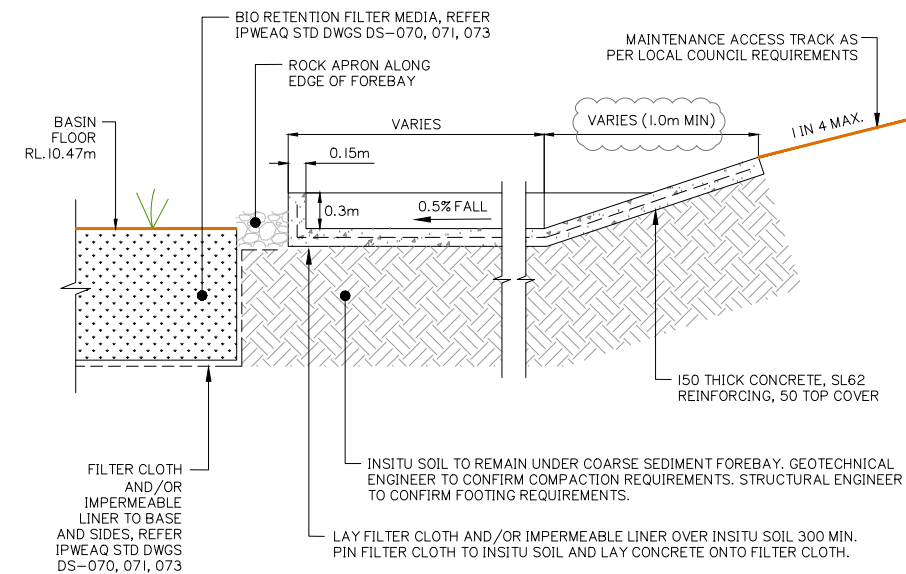
SEDIMENT FOREBAY & ENERGY
DISSIPATOR SETOUT

REFER DWG 5941 ENG OPW2 580-583



TYPICAL STORMWATER OUTLET TO SEDIMENT FOREBAY

N.T.S



COARSE SEDIMENT FOREBAY TYPICAL SECTION

N.T.S

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

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

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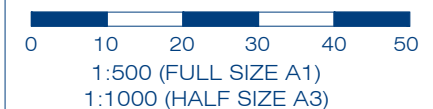
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DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 4 OF 4

Issue	Date	Description	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG

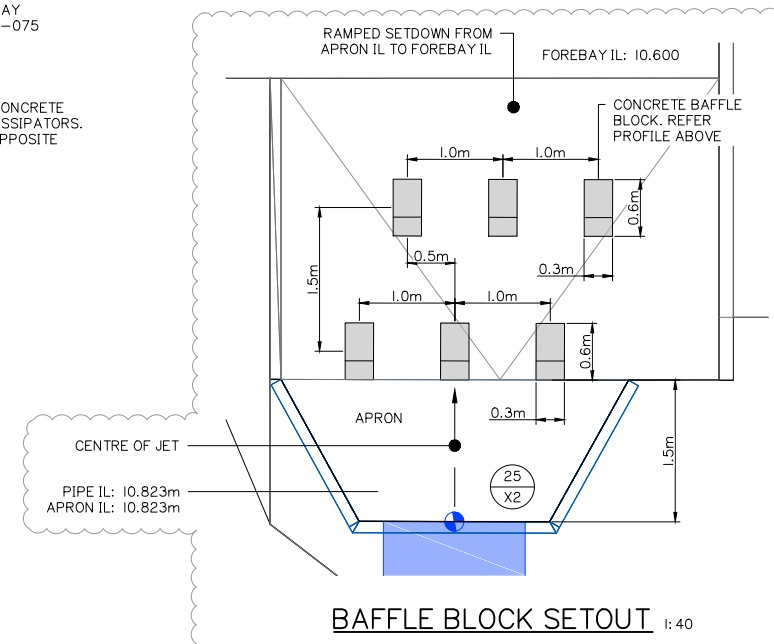
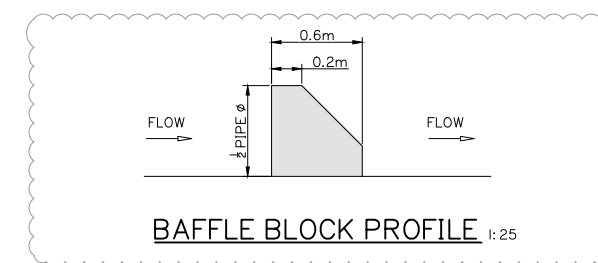
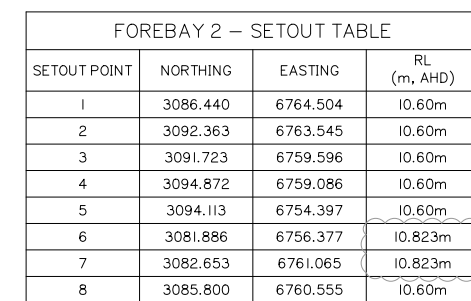
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No: 5941 ENG OPW2 573 Rev. No: B



GROUTED ROCK PITCHING

GRouted ROCK PITCHING 450mm THICK.

ROCK SHALL BE UNWEATHERED, CLEAN, HARD AND DURABLE GRADED 150-200mm WITH ESSENTIALLY FLAT FACES. GROUT SHALL BE 20MPa CEMENT MORTAR MADE FROM 1:3 GP CEMENT / SAND MIXTURE WITH SUFFICIENT WATER ADDED TO GIVE IT A PLASTIC LIKE TEXTURE THAT WILL RETAIN ITS SHAPE AND NOT FLOW LIKE A LIQUID

GROUTED ROCK FINISH

EXPOSED SURFACES SHALL HAVE A MINIMUM 80% OF EXPOSED ROCK WITH A CLOSE FACED MAXIMUM MORTAR SETBACK OF 10mm. EXCESS CEMENT MORTAR COATING SHALL BE REMOVED. THE FINISHED SURFACE SHALL HAVE A GENERALLY FLAT, EVEN AND NEAT APPEARANCE, AND WILL NOT HAVE ANY SHARP OR ANGULAR POINTS

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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

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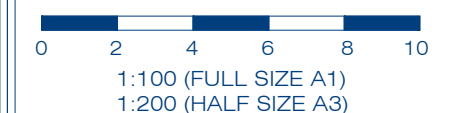
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DRAWING TITLE
COARSE SEDIMENT
FOREBAY 2 SETOUT
SHEET 2 OF 4

B	10/09/21	INFORMATION REQUEST RESPONSE		LAB	MO
A	30/7/21	ORIGINAL ISSUE		LAB	MG
Issue	Date	Description		DRN	CHK

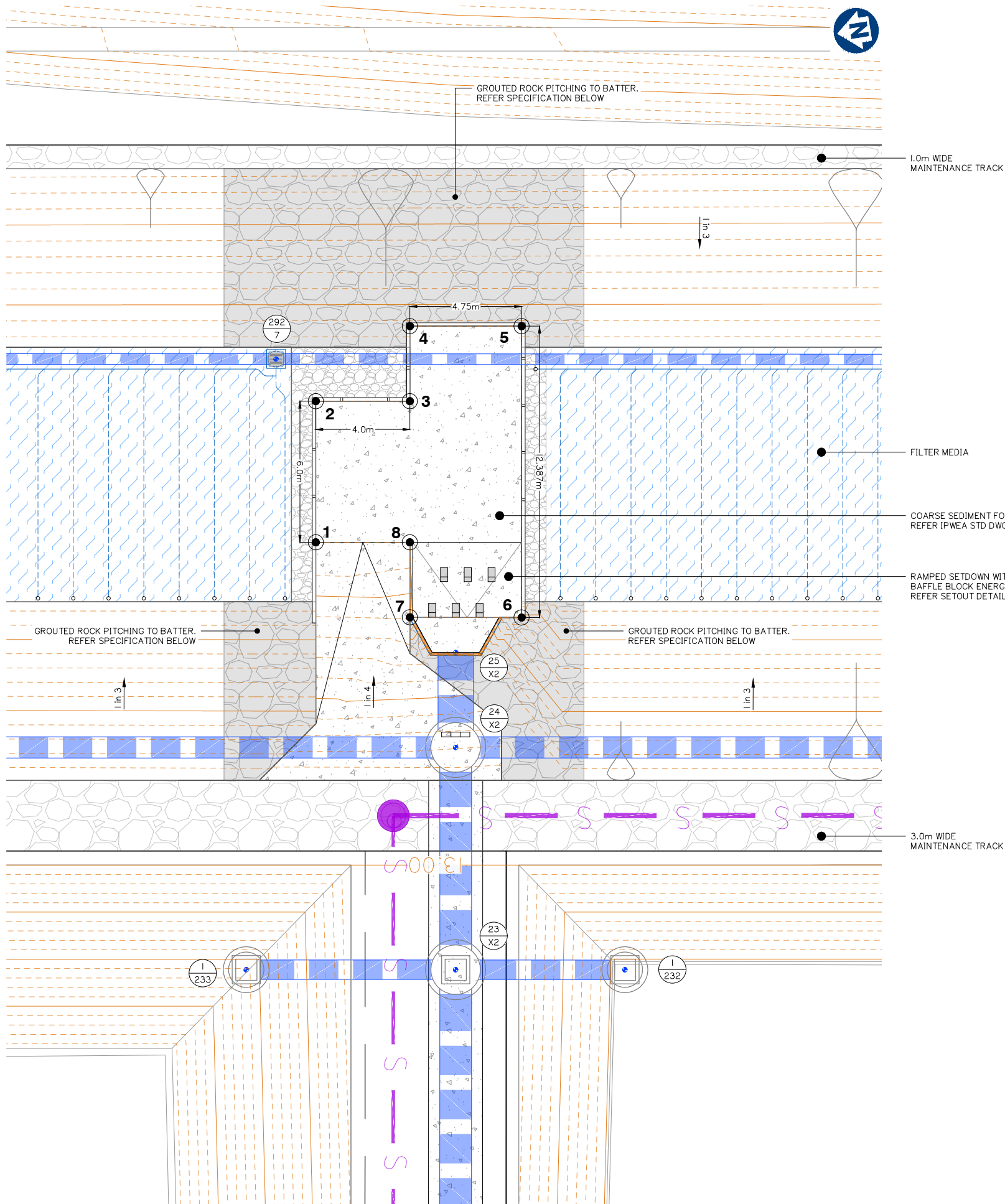
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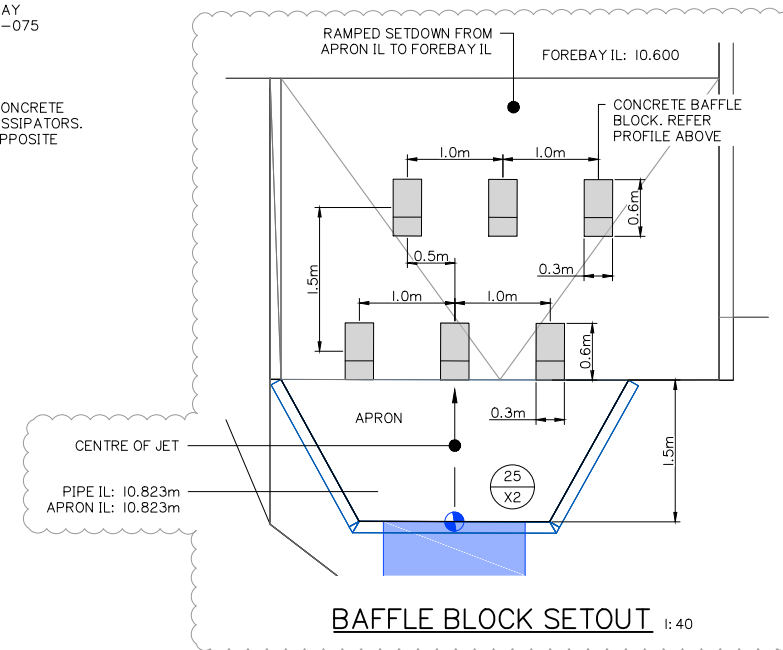
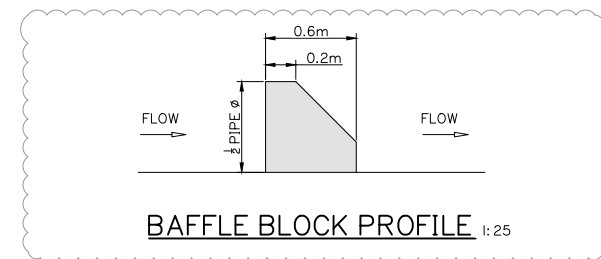
Scale at A1:	1:100
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:	Rev. No:
5941 ENG OPW2 581	B



FOREBAY 2 – SETOUT TABLE			
SETOUT POINT	NORTHING	EASTING	RL (m, AHD)
1	3086.440	6764.504	10.60m
2	3092.363	6763.545	10.60m
3	3091.723	6759.596	10.60m
4	3094.872	6759.086	10.60m
5	3094.113	6754.397	10.60m
6	3081.886	6756.377	10.823m
7	3082.653	6761.065	10.823m
8	3085.800	6760.555	10.60m



ROUTED ROCK PITCHING

ROUTED ROCK PITCHING 450mm THICK.

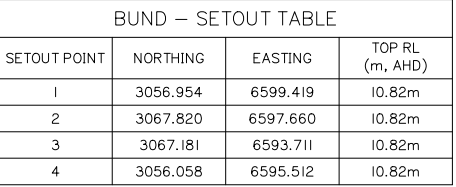
ROCK SHALL BE UNWEATHERED, CLEAN, HARD AND DURABLE GRADED 150-200mm WITH ESSENTIALLY FLAT FACES. GROUT SHALL BE 20MPa CEMENT MORTAR MADE FROM 1:3 GP CEMENT / SAND MIXTURE WITH SUFFICIENT WATER ADDED TO GIVE IT A PLASTIC LIKE TEXTURE THAT WILL RETAIN ITS SHAPE AND NOT FLOW LIKE A LIQUID

ROUTED ROCK FINISH

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Issue	Date	Original Issue	Description	LAB	MG	CHK
B	10/09/21	INFORMATION REQUEST RESPONSE		LAB	MG	
A	30/07/21	ORIGINAL ISSUE		LAB	MG	

Scale at A1:	1:100
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021



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205



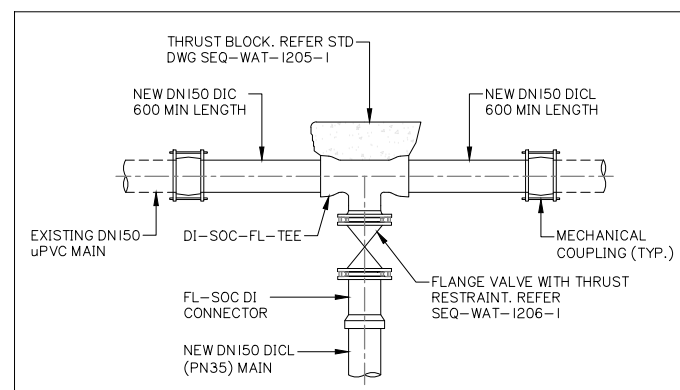
PLANS AND DOCUMENTS referred to in the
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206



DETAIL A CUT-IN CONNECTION METHOD

IN ACCORDANCE WITH SEQ STD DWG SEQ-WAT-I105-I-C, CUT-IN WITH VALVE INTO EXISTING MAIN
SCALE 1:50

PROVIDE Ø150 DICL CLASS PN35

1

HIGHLANDS STREET

AMGROW

500
SP295994

1

CONTRACTOR TO ENSURE MINIMUM 0.75m COVER
OVER WATER MAINS IN INDUSTRIAL AREAS AS
PER SEQ CODE STD. DWG. SEQ-WAT-I200-2

COMMON
PROPERTY

207

Ø150 DICL CLASS PN35

MINIMUM 0.75m COVER
TO WATER MAIN UNDER
CHRISTENSEN ROAD IN
ACCORDANCE WITH
SEQ-WAT-I200-2 C

NEW WATER MAIN TO BE
OPEN CUT ACROSS EXISTING
PAVEMENT AHEAD OF
INTERSECTION UPGRADE.
REINSTATE ROAD CROSSING
IN ACCORDANCE WITH CoGC
STD DWG 02-602

NOTE:
CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING
SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY
SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN
INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR
KNOWN POSITIONS OF VALVES, ACCESS CHAMBERS ETC. OR
INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO
RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE
INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES
ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.

LIVE CONNECTION TO BE
CUT-IN CONNECTION
METHOD TEE ONTO EXISTING
LINE. REFER DETAIL A

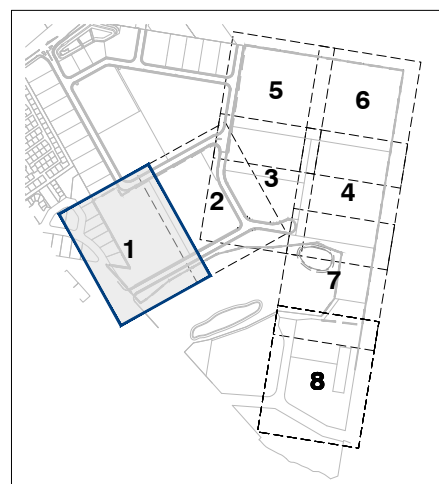
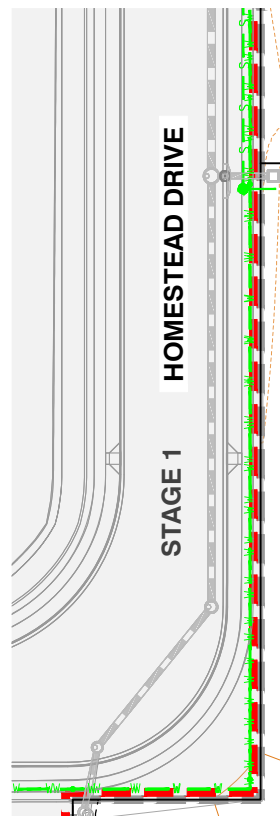
Ø150 uPVC
EXISTING
PORTABLE
WATER PIPE

WATER FITTING SCHEDULE

No	DESCRIPTION
1	FIRE HYDRANT
2	DICL BEND 90°
3	DICL BEND 45°
4	DICL BEND 22.5°
5	DICL BEND 11.25°
6	SLUICE VALVE
7	150X150 TEE
8	DICL BEND 6°
9	150X150 TEE WITH BLANK FLANGES
10	150Ø 90° BEND WITH BLANK FLANGE
11	LIVE CONNECTION, REFER LIVE WORKS SCHEDULE
12	LIVE CONNECTION, REFER LIVE WORKS SCHEDULE AND DETAIL A ON DWG OPW2 700

LIVE WORKS SCHEDULE – WATER

No	DESCRIPTION	DIA MAIN	FSL	ESL	IL	DEPTH TO INVERT (FSL)
I(A)	CONTRACTOR TO ORGANISE FOR GCWW TO SHUT OFF WATER MAIN AT THE NEAREST UPSTREAM SLUICE VALVE.					
I(B)	CONTRACTOR TO MAKE CONNECTION TO EXISTING WATER MAIN IN ACCORDANCE WITH THE "CUT-IN CONNECTION" METHOD AS DETAILED UNDER GCWW SUPERVISION LOCATION DENOTED AS POINT 12.	150mm DICL PN35	23.645m	23.645m	22.665m (TBC)	0.98m
I(C)	SLUICE VALVE SHALL REMAIN CLOSED UNTIL AFTER SUCCESSFUL "ON MAINTENANCE INSPECTION" NOTE: ALL WORKS TO BE CARRIED OUT UNDER GCWW SUPERVISION AND AT DEVELOPERS EXPENSE.					



KEY PLAN
SCALE 1:7500



WATER RETICULATION LAYOUT PLAN SHEET 1 OF 4

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

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

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DRAWING TITLE

WATER RETICULATION
LAYOUT PLAN SHEET 1 OF 4

Rev	Date	Description	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	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: LAB / IG

Approved: MG

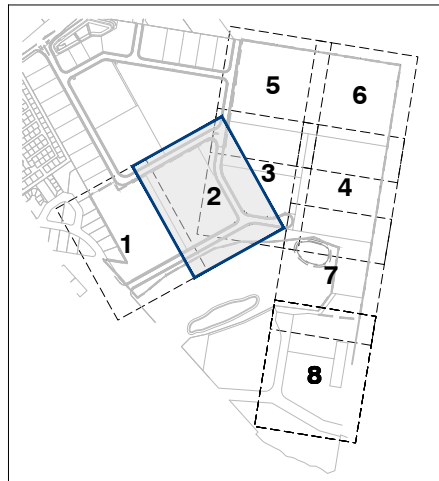
RPEQ: 16939

Signed:

Date: 10/09/2021

Drawing No:
5941 ENG OPW2 700

Rev. No:
B



KEY PLAN
SCALE 1: 7500

NOTE:
CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.

WATER FITTING SCHEDULE	
No	DESCRIPTION
1	FIRE HYDRANT
2	DICL BEND 90°
3	DICL BEND 45°
4	DICL BEND 22.5°
5	DICL BEND 11.25°
6	SLUICE VALVE
7	150X150 TEE
8	DICL BEND 6°
9	150X150 TEE WITH BLANK FLANGES
10	150ø 90° BEND WITH BLANK FLANGE
11	LIVE CONNECTION, REFER LIVE WORKS SCHEDULE
12	LIVE CONNECTION, REFER LIVE WORKS SCHEDULE AND DETAIL - A ON DWS QPW2 700

No	DESCRIPTION	DIA MAIN	FSL	ESL	IL	DEPTH TO INVERT (FSL)
I(A)	CONTRACTOR TO ORGANISE FOR GCWW TO SHUT OFF WATER MAIN AT THE NEAREST UPSTREAM SLUICE VALVE.					
I(B)	CONTRACTOR TO CONNECT TO EXISTING LIVE Ø150 WATER MAIN AT EXISTING BLANK FLANGE LOCATION DENOTED AS POINT II.	150mm DICL	18.319m	13.376m	17.339m	0.98m
I(C)	SLUICE VALVE SHALL REMAIN CLOSED UNTIL AFTER SUCCESSFUL "ON MAINTENANCE INSPECTION" NOTE: ALL WORKS TO BE CARRIED OUT UNDER GCWW SUPERVISION AND AT DEVELOPER'S EXPENSE.					

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN
INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR
KNOWN POSITIONS OF VALVES, ACCESS CHAMBERS ETC. OR
INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO
RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE
INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES
ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK

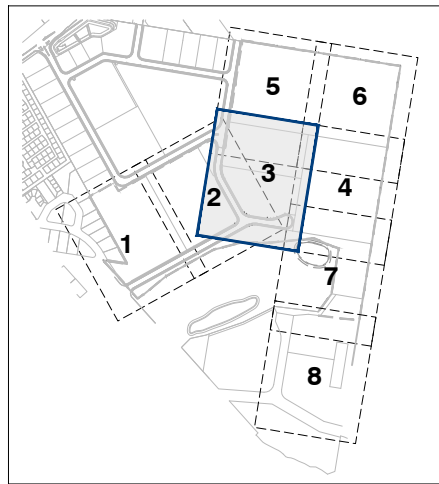
CONTRACTOR TO ENSURE MINIMUM 0.75m COVER
OVER WATER MAINS IN INDUSTRIALS AREAS AS
PER SEQ CODE STD. DWG. SEQ-WAT-1200-2

WATER RETICULATION LAYOUT PLAN SHEET 2 OF 4

WATER RETICULATION
LAYOUT PLAN SHEET 2 OF 4

B	10/09/21	INFORMATION REQUEST RESPONSE		LAB	MG
A	30/07/21	ORIGINAL ISSUE		LAB	MG
Issue	Date	Description		DRN	CHK

Drawing No:	Rev. No:
5941 ENG OPW2 701	B



KEY PLAN
SCALE 1:7500

LIVE WORKS SCHEDULE – WATER

No	DESCRIPTION	DIA MAIN	FSL	ESL	IL	DEPTH TO INVERT (FSL)
I(A)	CONTRACTOR TO ORGANISE FOR GCWW TO SHUT OFF WATER MAIN AT THE NEAREST UPSTREAM SLUICE VALVE.					
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I(C)	SLUICE VALVE SHALL REMAIN CLOSED UNTIL AFTER SUCCESSFUL "ON MAINTENANCE INSPECTION" NOTE: ALL WORKS TO BE CARRIED OUT UNDER GCWW SUPERVISION AND AT DEVELOPER'S EXPENSE.					

CONTRACTOR TO ENSURE MINIMUM 0.75m COVER OVER WATER MAINS IN INDUSTRIALS AREAS AS PER SEQ CODE STD. DWG. SEQ-WAT-1200-2

203

204

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: OPW/2021/1255

Dated: 25 October 2021

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

CAUTION

EXISTING STAGE 1 LIVE WATER MAIN

CONTRACTOR TO MAKE SUITABLE PROVISIONS DURING CIVIL WORKS CONSTRUCTION TO PROTECT THE EXISTING LIVE MAIN FROM DISTURBANCE.

STAGE 1

FAIRWAY STREET

WARNING

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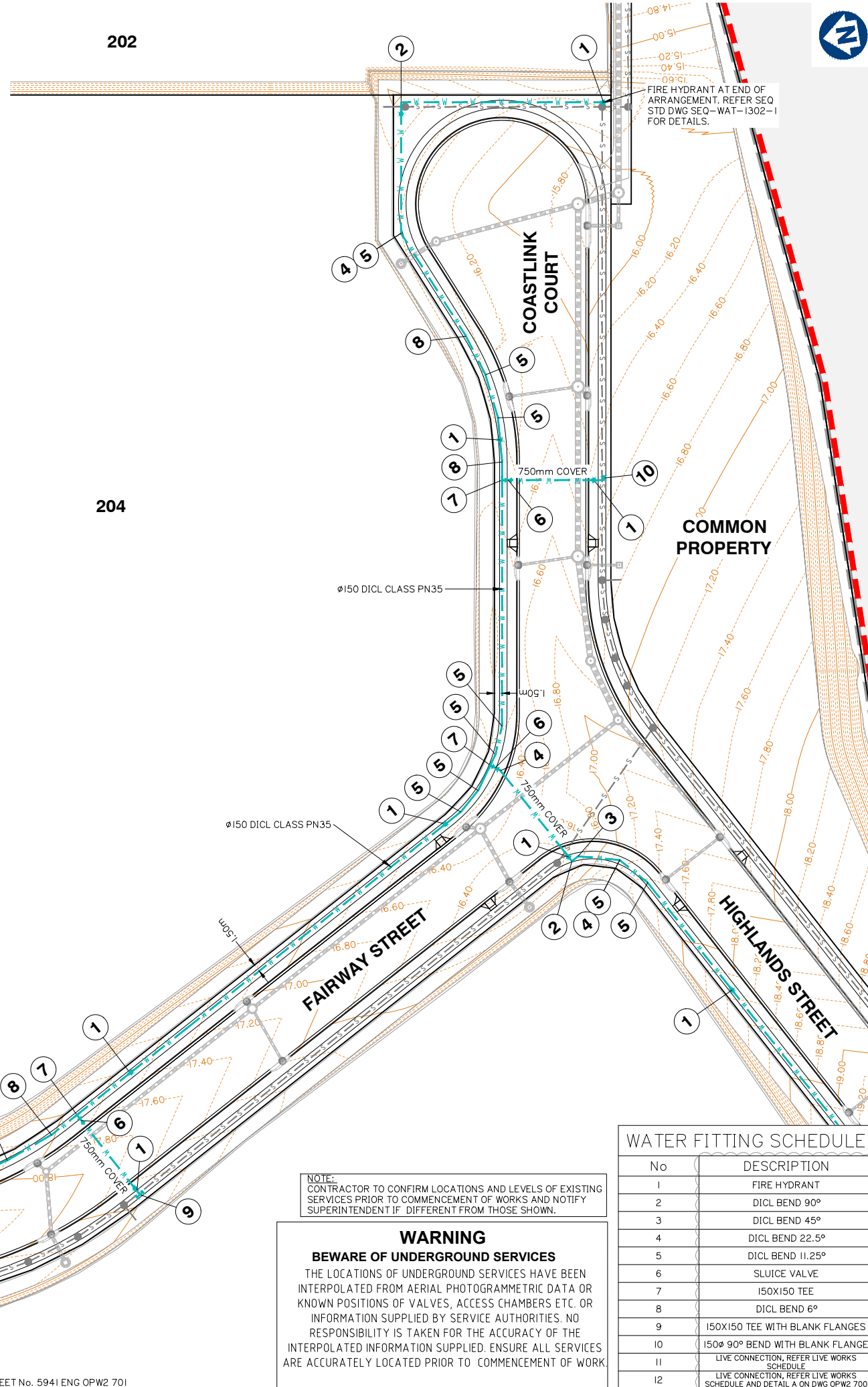
NOTE:
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WATER FITTING SCHEDULE

No	DESCRIPTION
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8	DICL BEND 6°
9	ISOX150 TEE WITH BLANK FLANGES
10	ISOØ 90° BEND WITH BLANK FLANGE
11	LIVE CONNECTION, REFER LIVE WORKS SCHEDULE
12	LIVE CONNECTION, REFER LIVE WORKS SCHEDULE AND DETAIL A ON DWG OPW2 700

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 701

WATER RETICULATION LAYOUT PLAN SHEET 2 OF 4



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot: 501
Plan: SP295994
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

WATER RETICULATION
LAYOUT PLAN SHEET 2 OF 4

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: LAB / IG

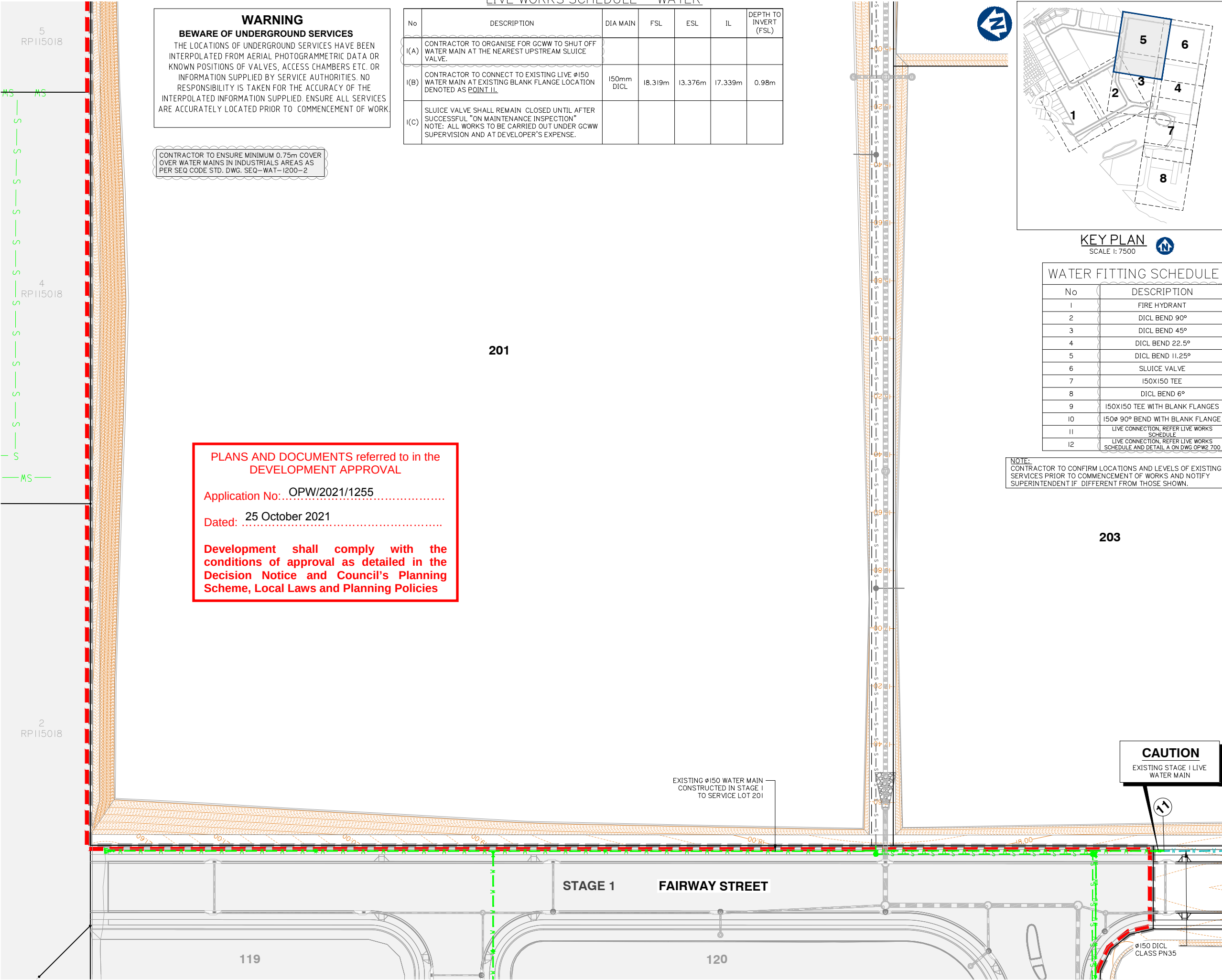
Approved: MG

RPEQ: 16939

Signed:

Date: 10/09/2021

Drawing No: 5941 ENG OPW2 702
Rev. No: B



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CONTRACTOR TO ENSURE MINIMUM 0.75m COVER OVER WATER MAINS IN INDUSTRIAL AREAS AS PER SEQ CODE STD. DWG. SEQ-WAT-1200-2

LIVE WORKS SCHEDULE – WATER						
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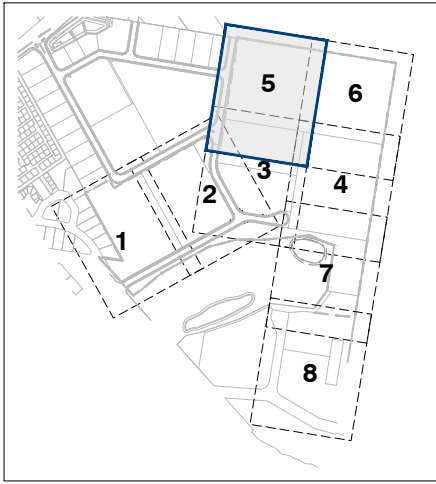
201

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No...OPW/2021/1255

Dated: 25 October 2021

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



KEY PLAN
SCALE 1: 7500

WATER FITTING SCHEDULE	
No	DESCRIPTION
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12	LIVE CONNECTION, REFER LIVE WORKS SCHEDULE AND DETAIL A ON DWG OPW2 702

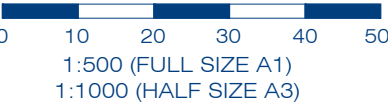
NOTE:
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203

CAUTION
EXISTING STAGE 1 LIVE WATER MAIN

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 702

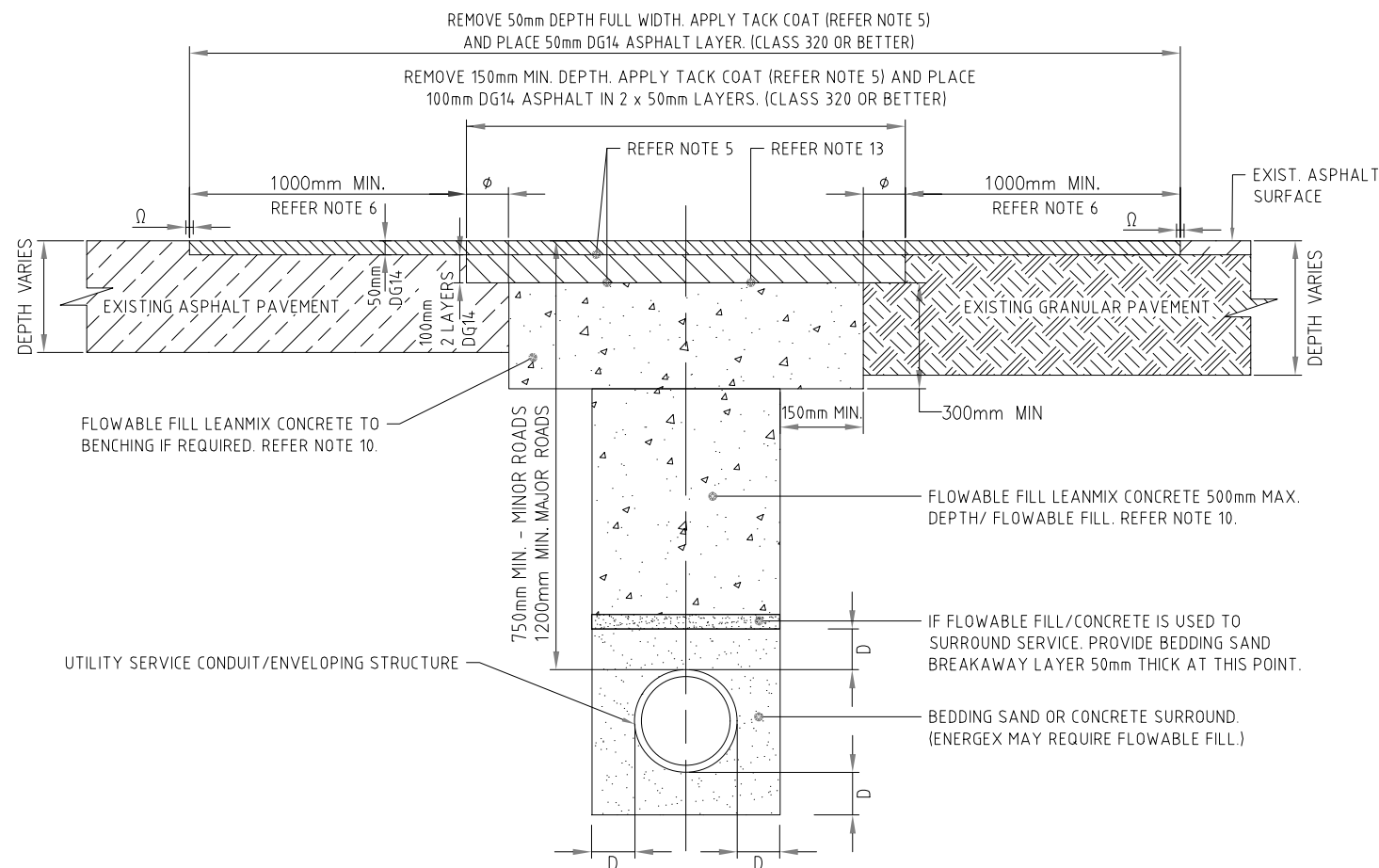
Issue	Date	Description	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG



Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:	Rev. No:
5941 ENG OPW2 710	A

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



Ø	SAW CUT EXIST. ASPHALT SURFACE 150mm WIDER THAN TRENCH 150mm NOM. DEPTH.
Ω	APPLY POLYMER MODIFIED BITUMEN (PMB) JOINT SEAL.
D	VARIES 100 - 150mm (SUBJECT TO RELEVANT SERVICE AUTHORITY APPROVAL).

1. TUNNEL BORING TECHNIQUES ARE THE PREFERRED METHOD FOR ROAD CROSSING SERVICES CONDUITS IN EXISTING ROADWAYS.
2. AC TO AC JOINT – SAW CUT EXISTING AC WHERE SHOWN OR AS AGREED ON SITE TO PROVIDE CLEAN CUT. SEAL WITH APPROVED BITUMEN EMULSION CRACK SEALANT.
3. SPRAYED SEAL TO AC JOINT – SPRAY SEAL TO EXTEND 300 BEYOND JOINT.
4. PAVEMENT MATERIAL AND COMPACTION TO COMPLY TO CITY OF GOLD COAST'S (CoGC) STANDARD SPECIFICATION.
5. APPLY BITUMEN EMULSION TACK COAT TO ALL NEWLY EXPOSED ASPHALT AND VERTICAL GRAVEL SURFACES. APPLY SUITABLE PRIMER SEAL, PRIOR TO PLACING ASPHALT SURFACING, WHEN EXPOSED GRANULAR OR CONCRETE PAVEMENT EXISTS.
6. WHERE THE TRENCH HAS BEEN CONSTRUCTED LONGITUDINALLY IN THE ROAD, THEN THE FINAL ASPHALT REPAIR WIDTH IS TO TERMINATE 50mm CLEAR OF THE LINEMARKING TO ALLOW FOR THE BITUMEN EMULSION JOINT SEAL. REINSTATEMENT OF SURFACE ADJACENT TO THE KERB OR ROAD PAVEMENT EDGE TO EXTEND FULLY TO THE KERB LINE OR EDGE OF PAVEMENT.
7. LOCATE ALL SAW CUTS/JOINTS AWAY FROM EXISTING WHEEL PATHS.
8. THE VERTICAL DEVIATION FROM A STRAIGHT EDGE PARALLEL TO THE CENTRE LINE OF THE EXISTING ROAD AS SHOWN ON THE DRAWINGS, IS NOT TO EXCEED 5mm.
9. ASPHALT SURFACE REPAIRS ARE TO BE UNDERTAKEN WITHIN 24 HOURS UNLESS APPROVED OTHERWISE BY CoGC.
10. LEAN MIX CONCRETE / FLOWABLE FILL – 85kg CEMENT / m³
11. BENCH OR SHORE TO SUIT OH&S REQUIREMENTS. BENCHING TO BE BACKFILLED WITH LEAN MIX CONCRETE.
12. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
13. HIGHER ORDER ROADS PAVEMENT DESIGN TO BE IN ACCORDANCE WITH THE LATEST CoGC PAVEMENT DESIGN GUIDELINES AND RPEQ CERTIFIED.



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T: 3807 3333 | F: 3287 5461 | www.gassman.com.au

Gold Coast & Logan | 176 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207



VANTAGE YATALA STAGE 2

IS

DRAWING TITLE

WATER RETICULATION
TYPICAL DETAILS SHEET 2
OF 2

A	10/09/21	ORIGINAL ISSUE		LAB	MG
Issue	Date	Description		DRN	CHK

NOT APPLICABLE

NTS

IG

LAB / IG

MG

16939

Michael K...

10/09/2021

Rev. No:
A