

CIVIL OPERATIONAL WORKS VANTAGE YATALA - STAGE 2

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STANDARD DRAWINGS			
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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
SDI033	K	DTMR	KERB AND CHANNEL
SDI304	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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

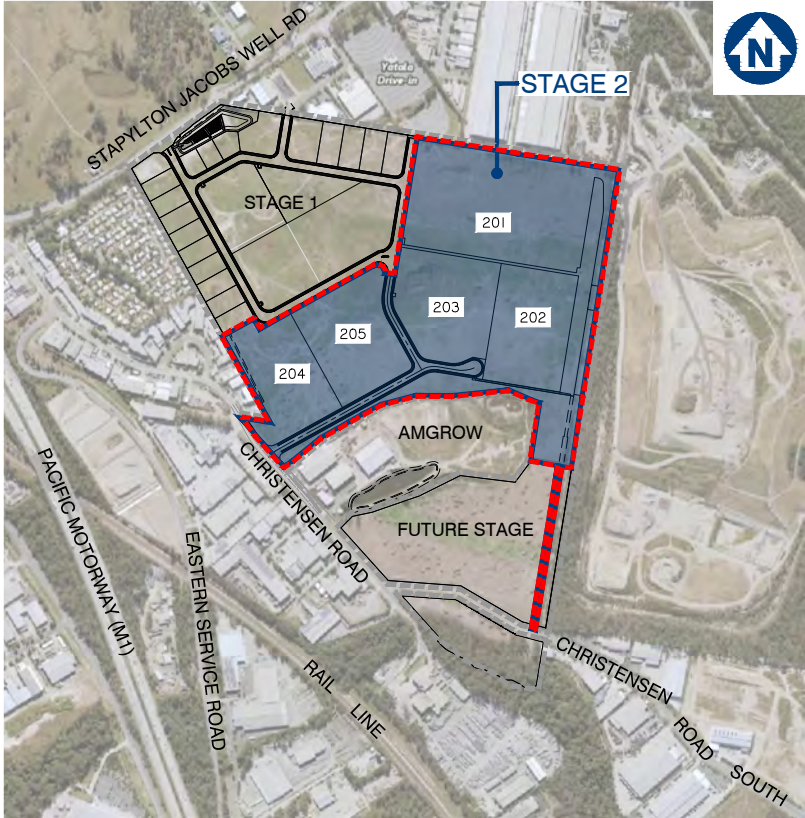
Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



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LOCALITY PLAN

SCALE 1:8000 (A1)

CLIENT



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 F

JULY 2022

HES BASIN GENERAL NOTES

AUTO DOSER

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

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

BASIN CONSTRUCTION

MATERIALS

5. EARTH FILL: CLEAN SOIL WITH EMERSON CLASS 2(1), 3, 4 OR 5 AND FREE OF ROOTS, WOODY VEGETATION, ROCKS AND OTHER UNSUITABLE MATERIAL. SOIL WITH EMERSON CLASS 4 AND 5 MAY NOT BE SUITABLE DEPENDING ON PARTICLE SIZE DISTRIBUTION AND DEGREE OF DISPERSION. CLASS 2 (1) SHOULD ONLY BE USED UPON RECOMMENDATION FROM GEOTECHNICAL SPECIALIST.
6. SPILLWAY ROCK: HARD, ANGULAR, DURABLE, WEATHER RESISTANT AND EVENLY GRADED ROCK WITH 50% BY WEIGHT LARGER THAN THE SPECIFIED NOMINAL (D50) ROCK SIZE. LARGE ROCK SHOULD DOMINATE, WITH SUFFICIENT SMALL ROCK TO FILL THE VOIDS BETWEEN LARGER ROCK. THE DIAMETER OF THE LARGEST ROCK SHOULD BE NO LARGER THAN 1.5 TIMES THE NOMINAL ROCK SIZE. THE SPECIFIC GRAVITY SHOULD BE AT LEAST 2.5.
7. GEOTEXTILE FABRIC: HEAVY DUTY, NEEDLE-PUNCHED, NON-WOVEN CLOTH, MINIMUM 'BIDIM' A24 OR EQUIVALENT.

CONSTRUCTION

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

CUT-OFF TRENCH

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

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

EMBANKMENT

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

ESTABLISHING THE SETTLING POND

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

SPILLWAY CONSTRUCTION

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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

GENERAL NOTES
SHEET 2 OF 2

B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

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 003

Rev. No: 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 — ✕ — RM — ✕ — RM — ✕ — RM — ✕ —	DEMOLISH RISING MAIN
— S — ✕ — S — ✕ — S — ✕ — S — ✕ —	DEMOLISH SEWER
— SW — ✕ — SW — ✕ — SW — ✕ — SW — ✕ —	DEMOLISH STORMWATER
— SS — ✕ — SS — ✕ — SS — ✕ — SS — ✕ —	DEMOLISH SUBSOIL
— W — ✕ — W — ✕ — W — ✕ — W — ✕ —	DEMOLISH WATER
— OIL — ✕ — OIL — ✕ — OIL — ✕ — OIL — ✕ —	DEMOLISH OIL
— F — ✕ — F — ✕ — F — ✕ — F — ✕ —	DEMOLISH FUEL
— HV — ✕ — HV — ✕ — HV — ✕ — HV — ✕ —	DEMOLISH HIGH VOLTAGE ELECTRICITY
— E — ✕ — E — ✕ — E — ✕ — E — ✕ —	DEMOLISH UNDERGROUND ELECTRICITY
— E — ✕ — E — ✕ — E — ✕ — E — ✕ —	DEMOLISH OVERHEAD ELECTRICITY
— L — ✕ — L — ✕ — L — ✕ — L — ✕ —	DEMOLISH LIGHTING
— G — ✕ — G — ✕ — G — ✕ — G — ✕ —	DEMOLISH GAS
— P — ✕ — P — ✕ — P — ✕ — P — ✕ —	DEMOLISH PIPELINE
— T — ✕ — T — ✕ — T — ✕ — T — ✕ —	DEMOLISH TELSTRA
— C — ✕ — C — ✕ — C — ✕ — C — ✕ —	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

● PP	POWER POLE
★ PP	POWER POLE WITH LIGHT
★ LP	LIGHT POLE
● SP	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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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
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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LEGEND

B	26/11/21		ISSUED FOR CONSTRUCTION	LAB	MG
B	1/09/21		INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21		ORIGINAL ISSUE	LAB	MG
Issue	Date		Description	DRN	CHK

NOT APPLICABLE

Scale at A1: NTS

Designed:	IG
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Drafted:	LAB / IG
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Approved:	MG
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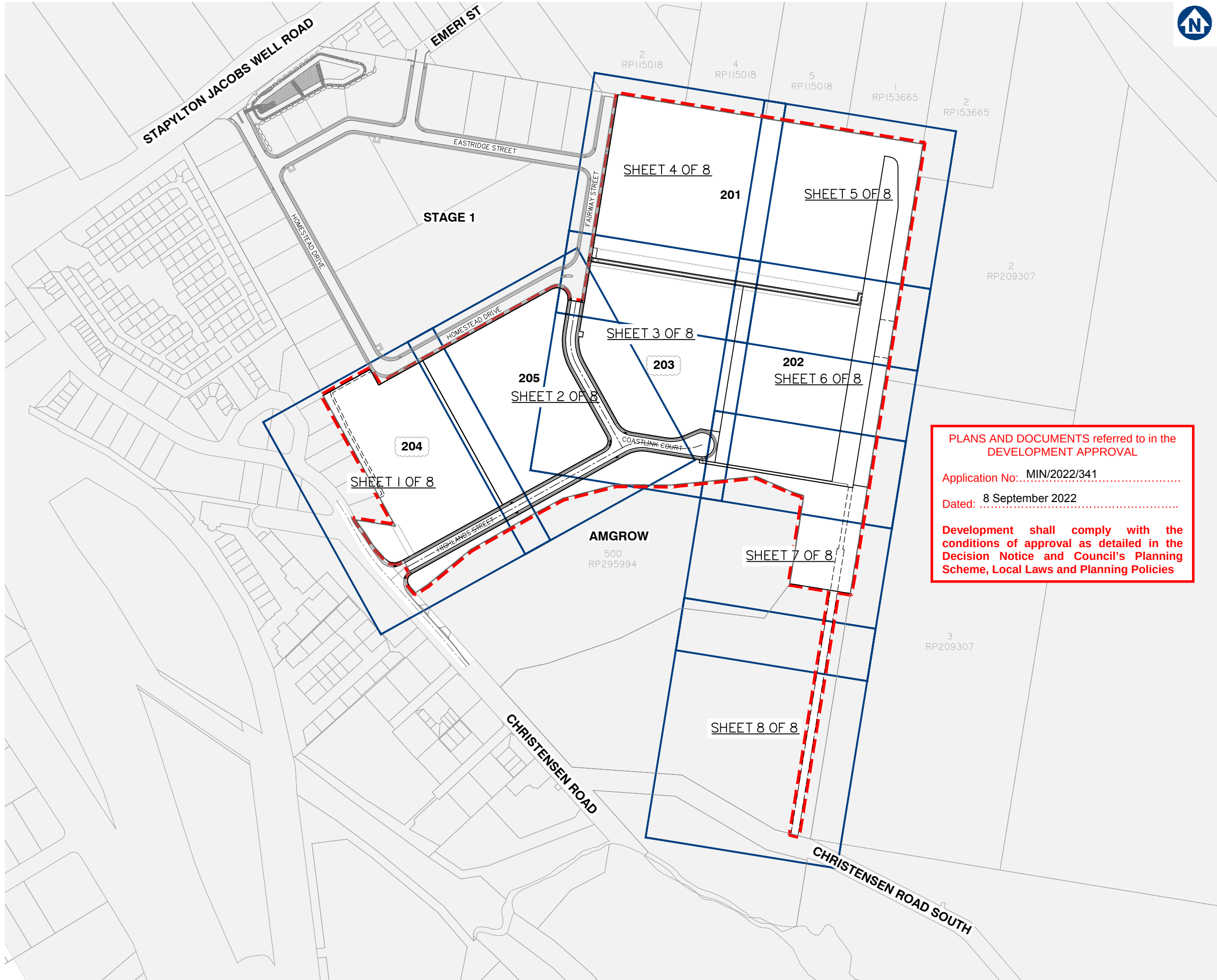
RPEQ:	16939
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Signed:	
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Date:	10/09/2021
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Drawing No:
5941 ENG OPW2 004

Rev. No:
B



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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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RPD:

Lot: 501
Plan: SP295994
Local Authority: CITY OF GOLD COAST
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DRAWING TITLE

KEY PLAN LAYOUT

Issue	Date	Description	LAB	MG	DRN	CHK
C	05/07/22	LOT NUMBER AND BOUNDARY UPDATED	LAB	MG		
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		

SCALE IN METRES



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

Scale at A1: 1:1500

Designed: IG

Drafted: LAB / IG

Approved: MG

RPEQ: 16939

Signed:

Date: 05/07/2022

Drawing No:
5941 ENG OPW2 005

Rev. No:
C

KEY PLAN LAYOUT



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VANTAGE YATALA STAGE 2

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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

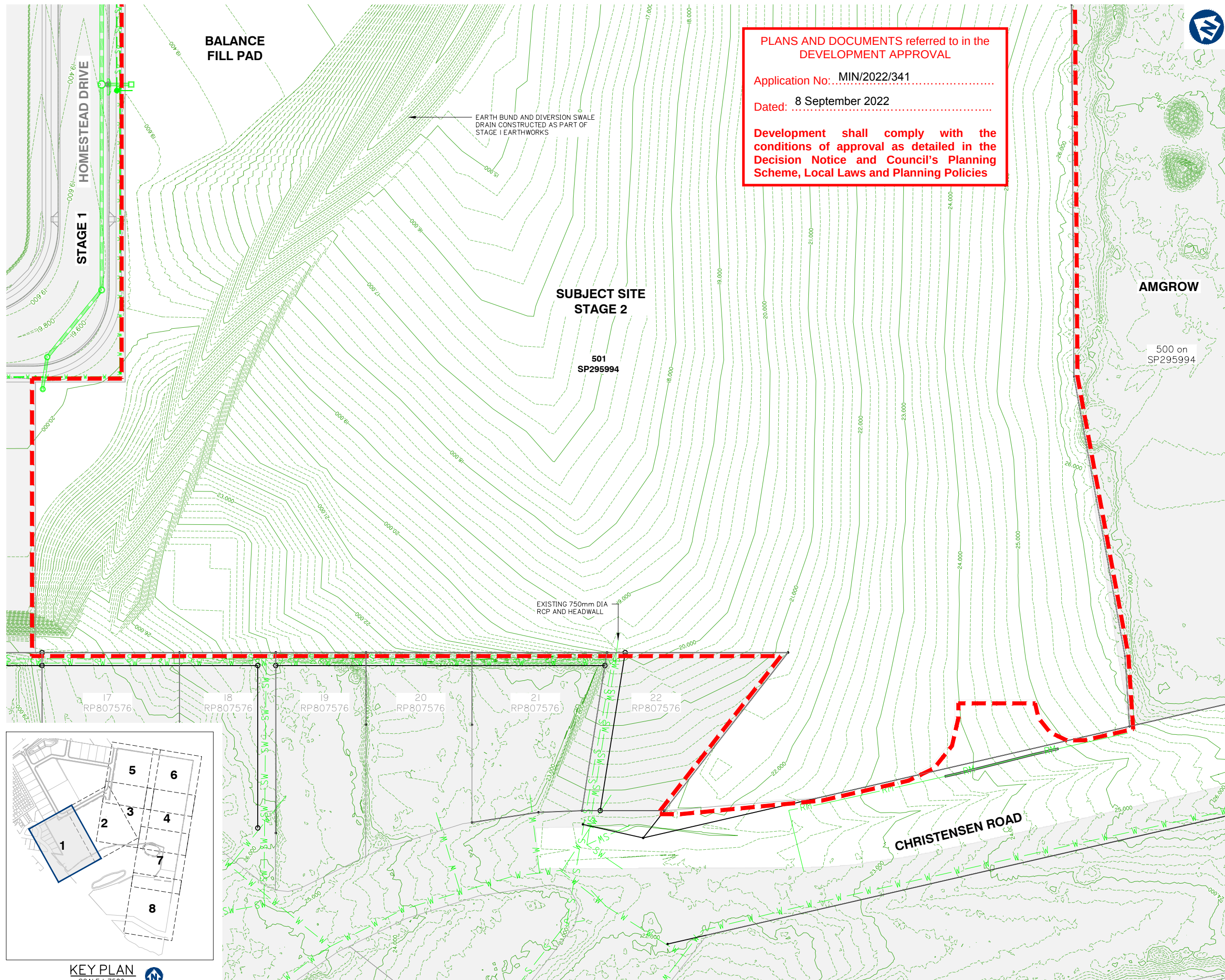
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 1 OF 8

B	26/11/21	ISSUED FOR CONSTRUCTION		LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE		LAB	MG
A	30/07/21	ORIGINAL ISSUE		LAB	MG
Issue	Date	Description		DRN	CHK

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

Drawing No:	Rev. No:
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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Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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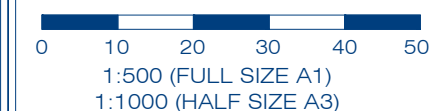
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 2 OF 8

B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MC	
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MC	
A	30/07/21	ORIGINAL ISSUE	LAB	MC	
Issue	Date	Description	DRN	CH	

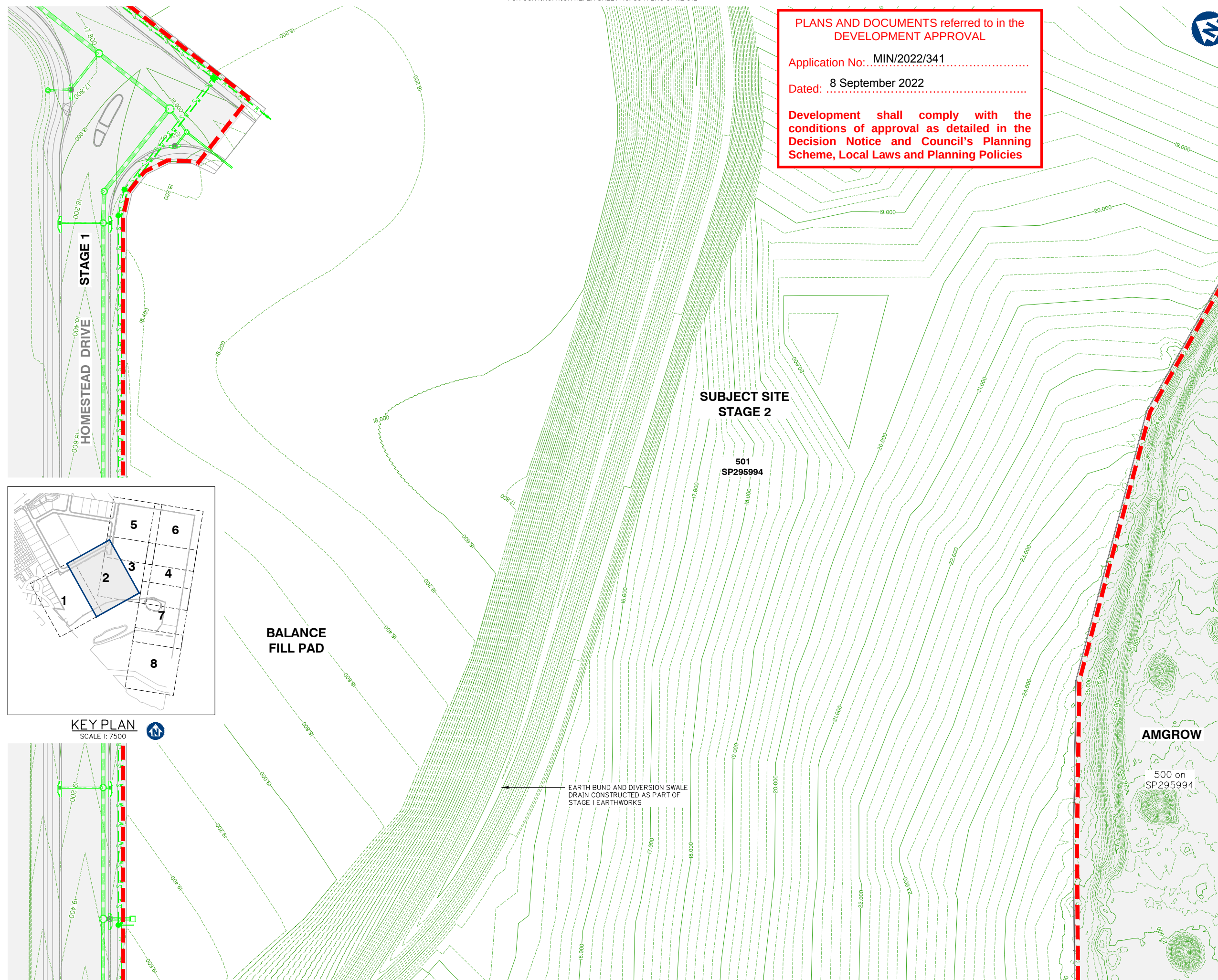
SCALE IN METRES

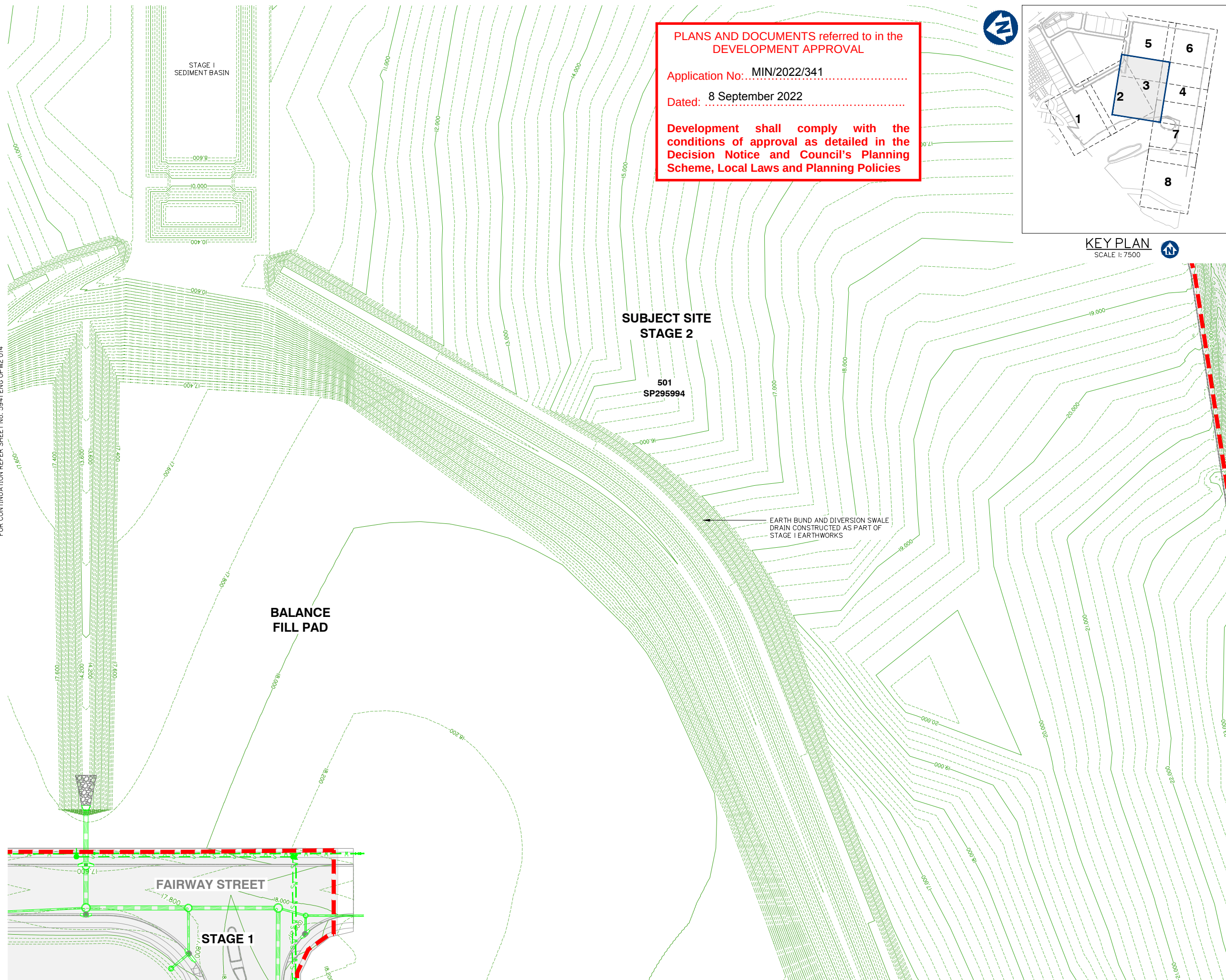


Scale at A1:	1:500
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:	Rev. No:
5941 ENG OPW2 011	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: -
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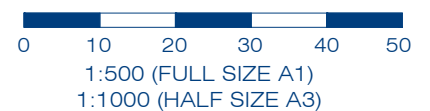
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 3 OF 8

B	26/11/21	ISSUED FOR CONSTRUCTION			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
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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 012	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

Topographic map showing Stage 1 and Stage 2 earthworks. The map includes contour lines, a red dashed line indicating a boundary, and various labels for features like 'SUBJECT SITE STAGE 2', 'STAGE 1 FAIRWAY STREET', 'STAGE 1 OUTLET CHANNEL', and 'BALANCE FILL PAD'. A red dashed line runs horizontally across the middle of the map, separating the Stage 1 area from the Stage 2 area. The Stage 1 area is labeled 'STAGE 1 FAIRWAY STREET' and shows a road with a cross-section. The Stage 2 area is labeled 'SUBJECT SITE STAGE 2' and shows a large area of earthworks. A red dashed line runs vertically on the left side of the map, separating the Stage 1 area from the Stage 2 area. The map also shows a 'BALANCE FILL PAD' on the right side and an 'EXISTING 1200 STORMWATER PIPE AND HEADWALL' at the bottom right. Contour lines are shown throughout the map, indicating elevation changes. A north arrow is located in the top right corner.

Drawing No:	Rev. No:
5941 ENG OPW2 014	B



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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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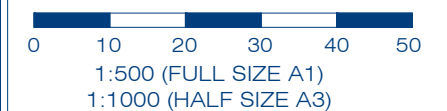
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DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 6 OF 8

B	26/11/21	ISSUED FOR CONSTRUCTION			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
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW2 015

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

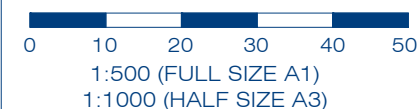
500
SP295994

FUTURE STAGE

DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 7 OF 8

B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MO	
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MO	
A	30/07/21	ORIGINAL ISSUE	LAB	MO	
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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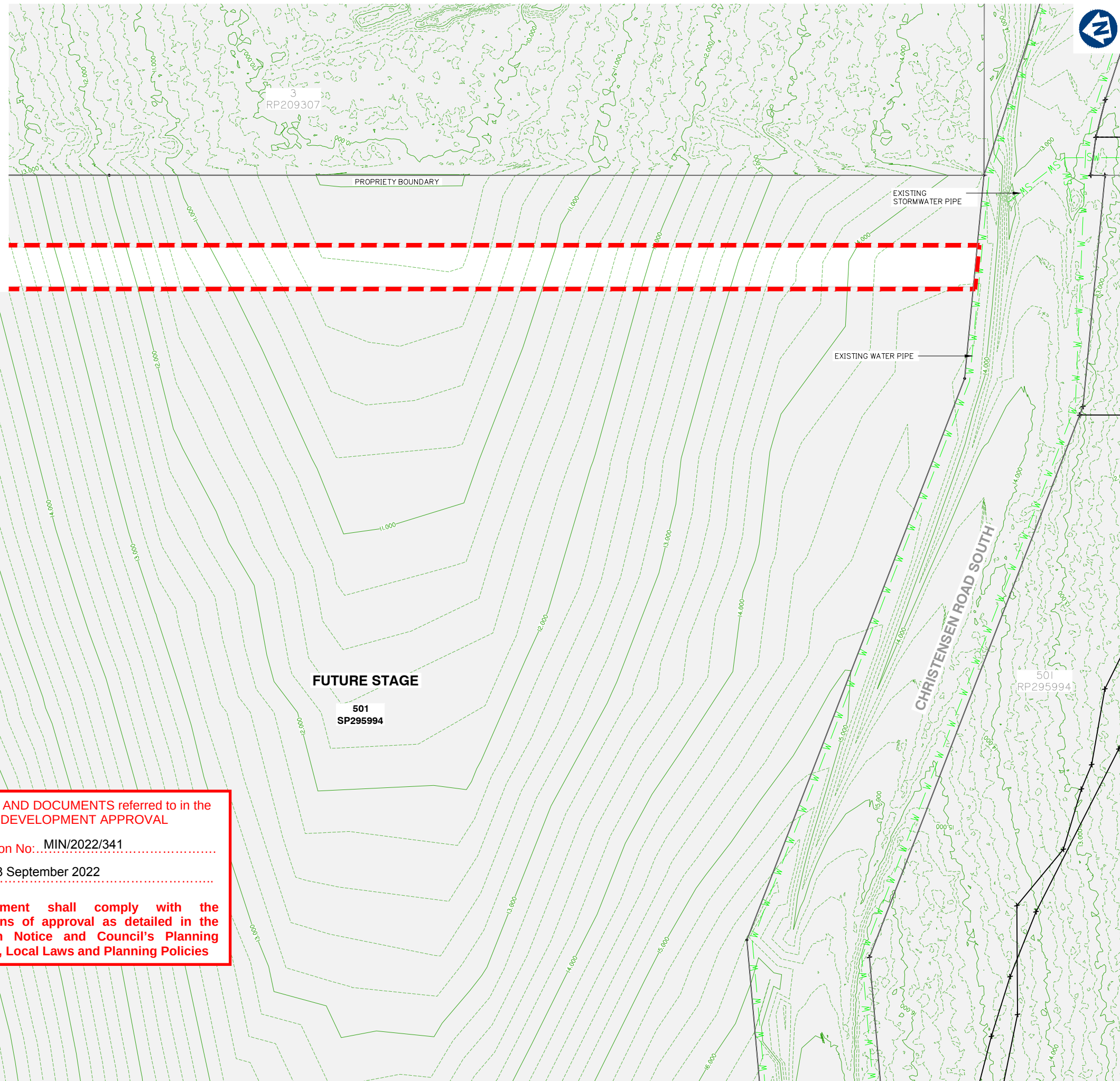
RPEQ:	16939
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Signed:	
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Date:	10/09/2021
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Drawing No:	Rev. No:
5941 ENG OPW2 016	B

Rev. No:
B



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

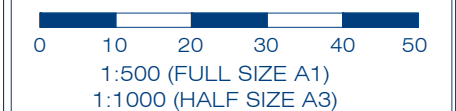
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
EXISTING SURFACE
AND FEATURES PLAN
SHEET 8 OF 8

B	26/11/21	ISSUED FOR CONSTRUCTION						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:	Rev. No:
5941 ENG OPW2 017	B

205
RL17.60
FLAT (0%)

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

Application No: MIN/2022/341

Dated: 8 September 2022

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

FLAT (0%)

SHOWN INDICATIVELY ONLY
(LOCATE ON SITE PRIOR TO
CONSTRUCTION)

INSTALL COIR LOGS AT APPROXIMATELY 30.0m
SPACING. REFER TO DWG No. 5941 ENG OPW2
064 FOR DETAILS

MESH & GRAVEL INLET FILTER.
TYPICAL TREATMENT FOR ALL
KERB INLETS

STORMWATER FIELD INLET PROTECTION.
TYPICAL TREATMENT FOR ALL
STRUCTURES

0.6m SETBACK FROM
TOP OF BATTER TO
PROPERTY BOUNDARY

ROAD RESERVE BOUNDARY

**COMMON
PROPERTY**

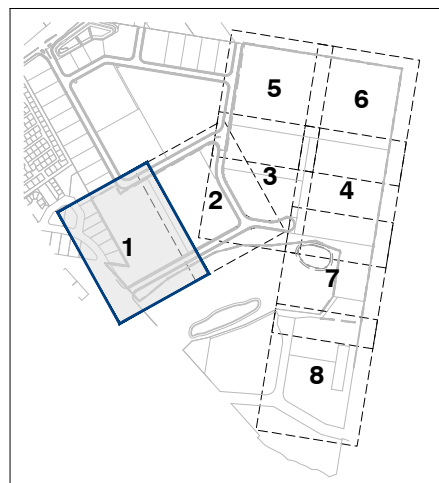
VEHICLE SHAKE DOWN
TO BE INSTALLED AT
ENTRY/EXIT LOCATION

RL22.30
FLAT (0%)

CONTRACTOR TO MANAGE FLOW DISCHARGE
FROM EXISTING 750mm DIA STORMWATER
INFRASTRUCTURE DURING EARTHWORKS
CONSTRUCTION PHASE

INSTALL GEO-TEXTILE SEDIMENT FENCE
TO LOW SIDE OF BATTER. REFER TO DWG
No. 5941 ENG BE2 035 FOR DETAILS

PROPOSED EASEMENT
FOR STORMWATER



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.
2. CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL COUNCIL AND STATE REQUIREMENTS AND BE IN LINE WITH IECA BEST PRACTICE GUIDELINES.
3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
4. CONTRACTOR TO CONSTRUCT CATCHMENT / VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

**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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 8

Issue	Date	Description	LAB	MG	DRN	CHK
D	19/07/22	LOT BOUNDARY, LOT NUMBER CONTOURS UPDATED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG		
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:	05/07/2022

Drawing No:
5941 ENG OPW2 050

Rev. No:
D



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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3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
4. CONTRACTOR TO CONSTRUCT CATCHMENT/VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.

STORMWATER FIELD INLET
PROTECTION. TYPICAL
TREATMENT FOR ALL
STRUCTURES

INSTALL COIR LOGS AT
APPROXIMATELY 30.0m
SPACING. REFER TO DWG No.
5941 ENG OPW2 064 FOR
DETAILS

– PROPOSED DRAINAGE
RESERVE FOR STORMWATER
AND SEWER

RL16.75
FLAT (0%)

RL16.35
FLAT (0%)

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

SHOWN INDICATIVELY ONLY
(LOCATE ON SITE PRIOR TO
CONSTRUCTION)

— MESH & GRAVEL INLET FILTER.
TYPICAL TREATMENT FOR ALL
KERB INLETS

205
RL17.50

STAGE 1

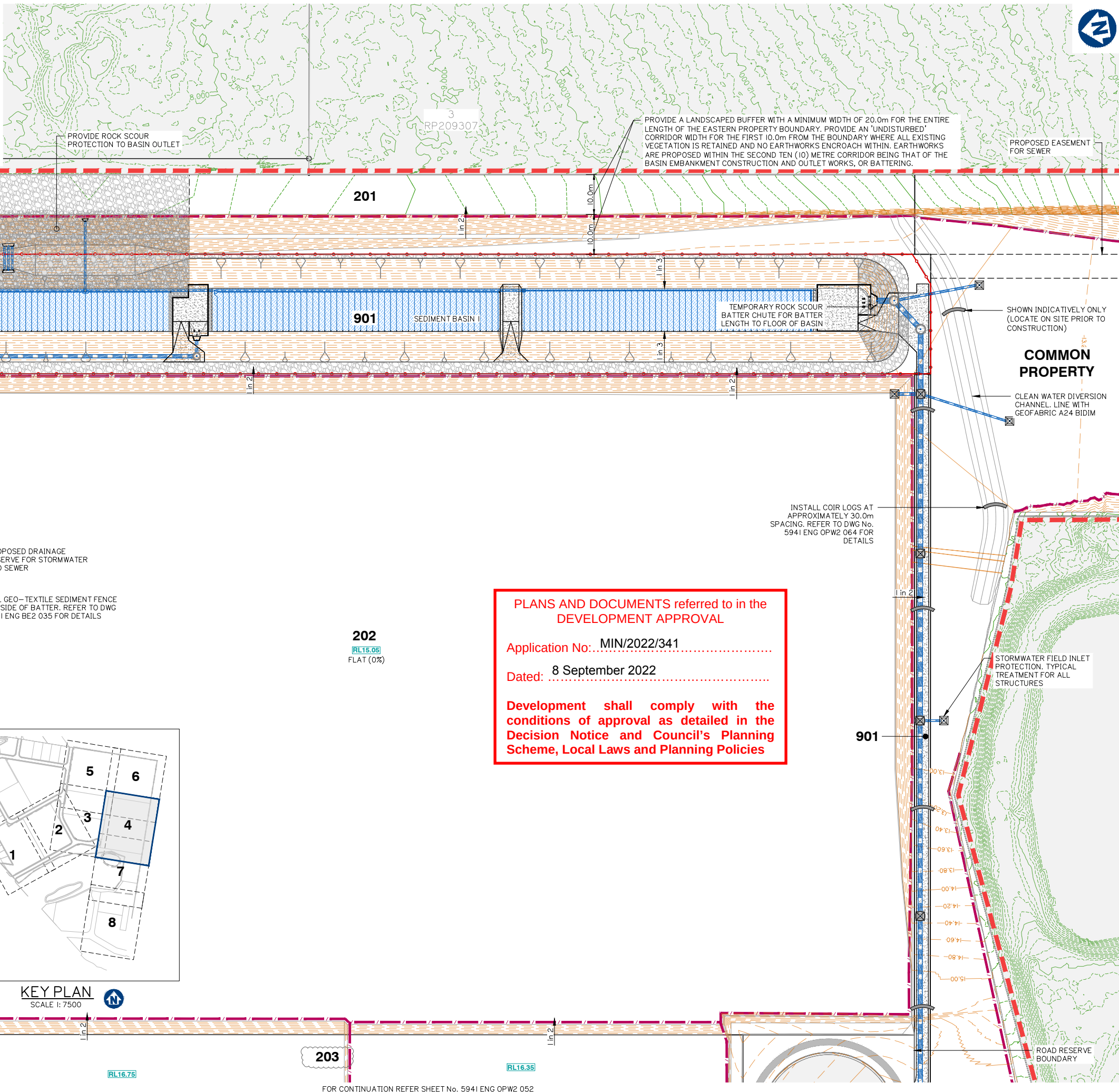
FOR CONTINUATION REFER SHEET No. 594| ENG OPW2 05|

SEDIMENT AND EROSION CONTROL PLAN SHEET 3 OF 8



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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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: MIN/2022/341

Dated: 8 September 2022

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

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 055

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 056

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: -

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

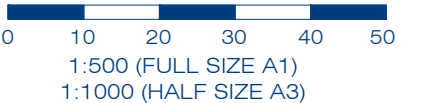
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DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 4 OF 8

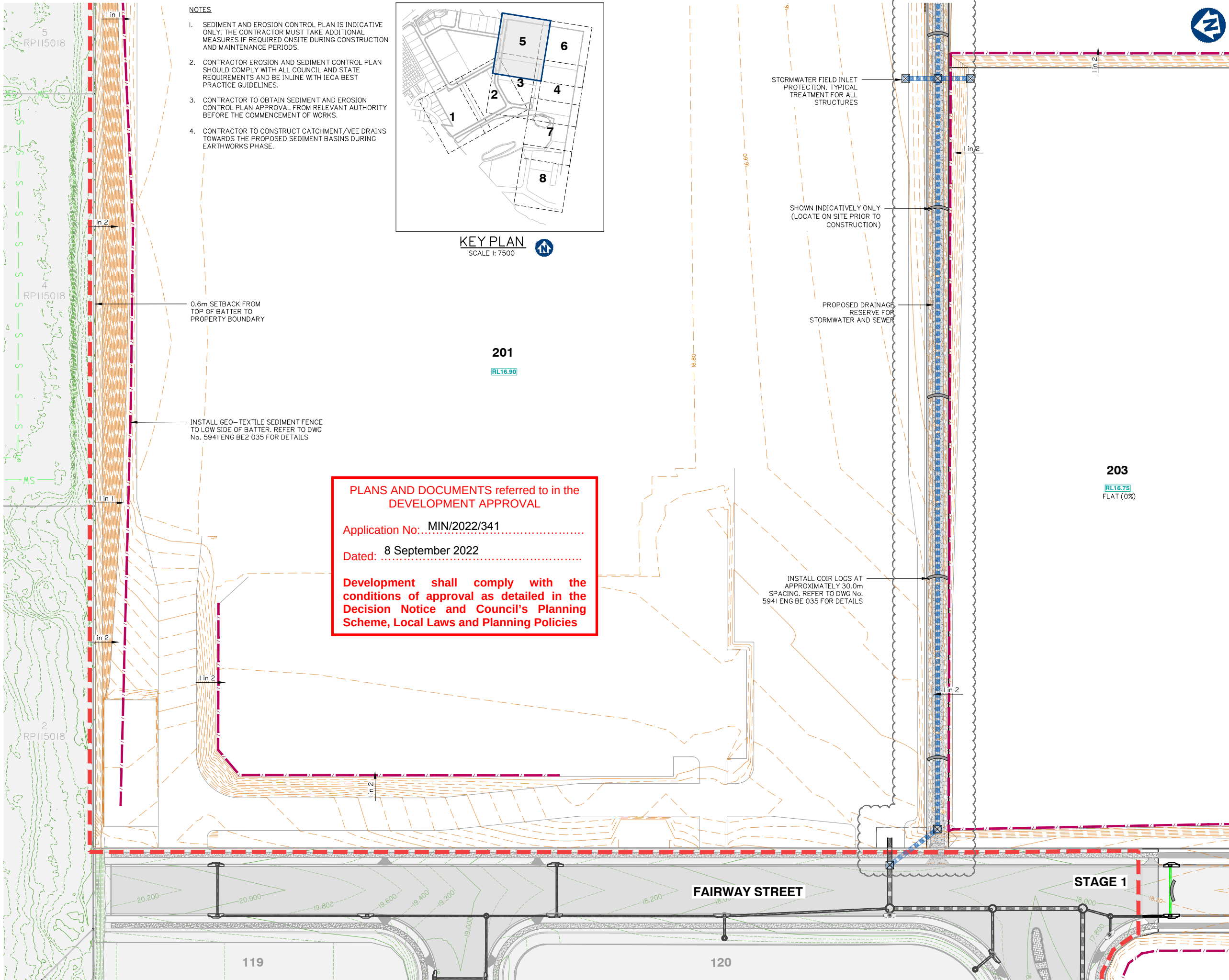
Issue	Date	Description	LAB	MG	LAB	MG	LAB	MG
C	19/07/22	LOT BOUNDARY, LOT NUMBER CONTOURS UPDATED	LAB	MG				
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG				
A	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG				
	30/07/21	ORIGINAL ISSUE	LAB	MG				

SCALE IN METRES

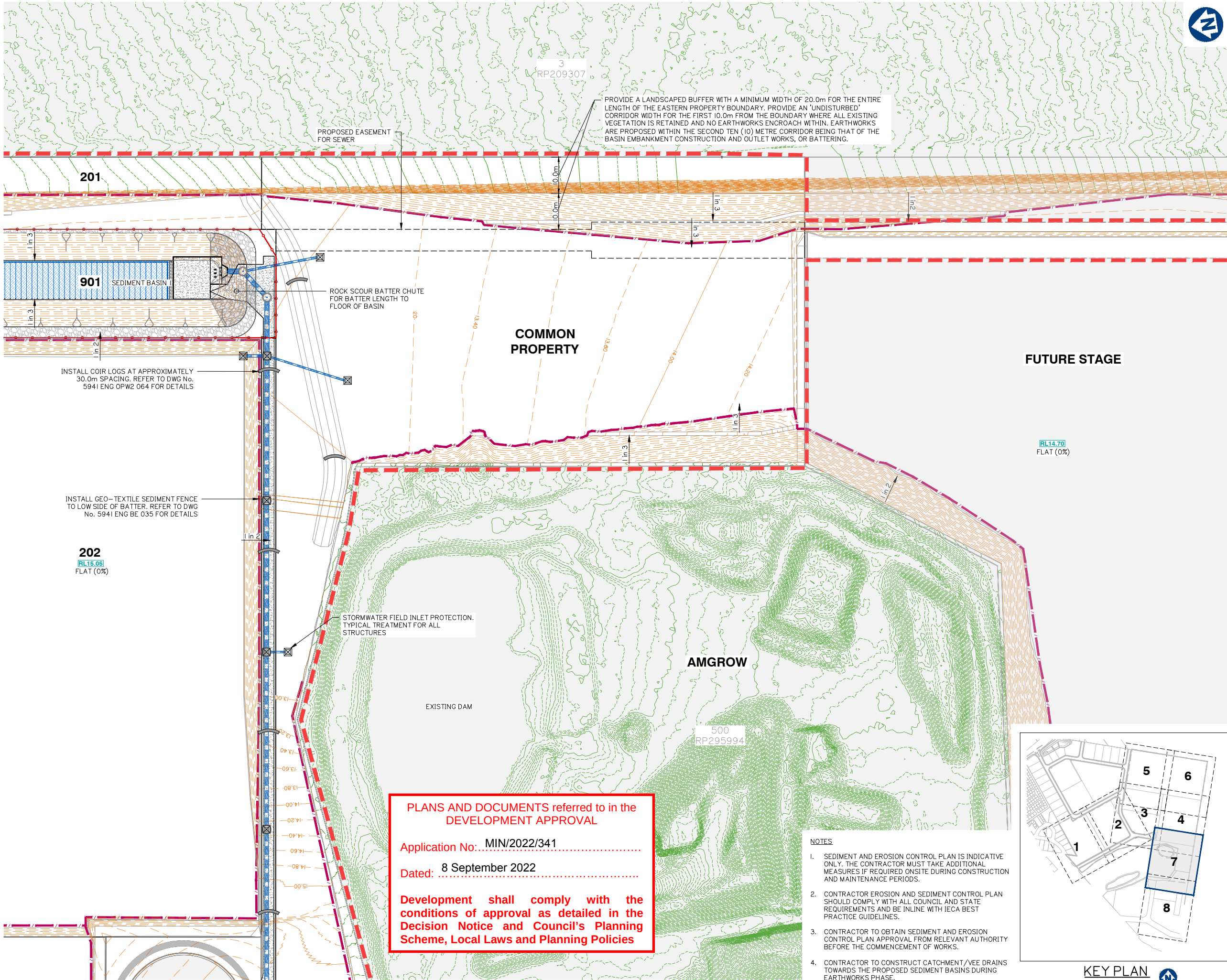


Scale at A1:	1:500
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

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



Issue	Date	Description	LAB	MG	DRN	CHK
E	19/07/22	LOT BOUNDARY AND STORMWATER UPDATED	LAB	MG		
D	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
D	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG		
C	15/09/21	CONTOURS AMENDED	LAB	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		



FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 053

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 057

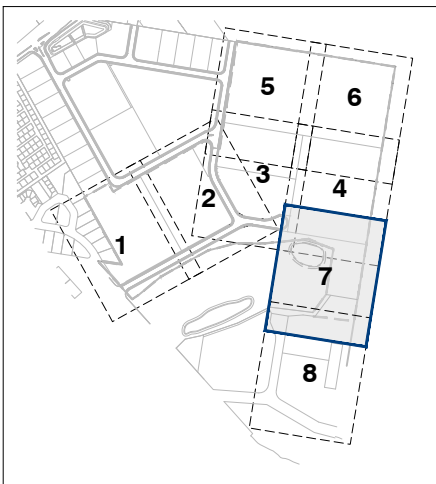
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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**
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 3. CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.
 4. CONTRACTOR TO CONSTRUCT CATCHMENT / VEE DRAINS TOWARDS THE PROPOSED SEDIMENT BASINS DURING EARTHWORKS PHASE.



KEY PLAN
SCALE 1:7500

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 7 OF 8

Issue	Date	Description	LAB	MG	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	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 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed: IG

Drafted: LAB / IG

Approved: MG

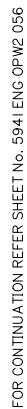
RPEQ: 16939

Signed:

Date: 10/09/2021

Drawing No:
5941 ENG OPW2 056

Rev. No:
B



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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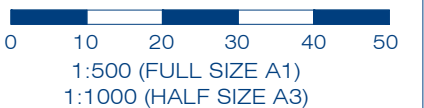
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEDIMENT AND
EROSION CONTROL
PLAN SHEET 8 OF 8

B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
B	10/08/21	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

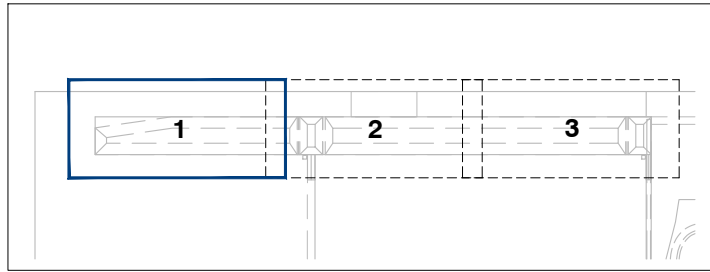
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW2 057

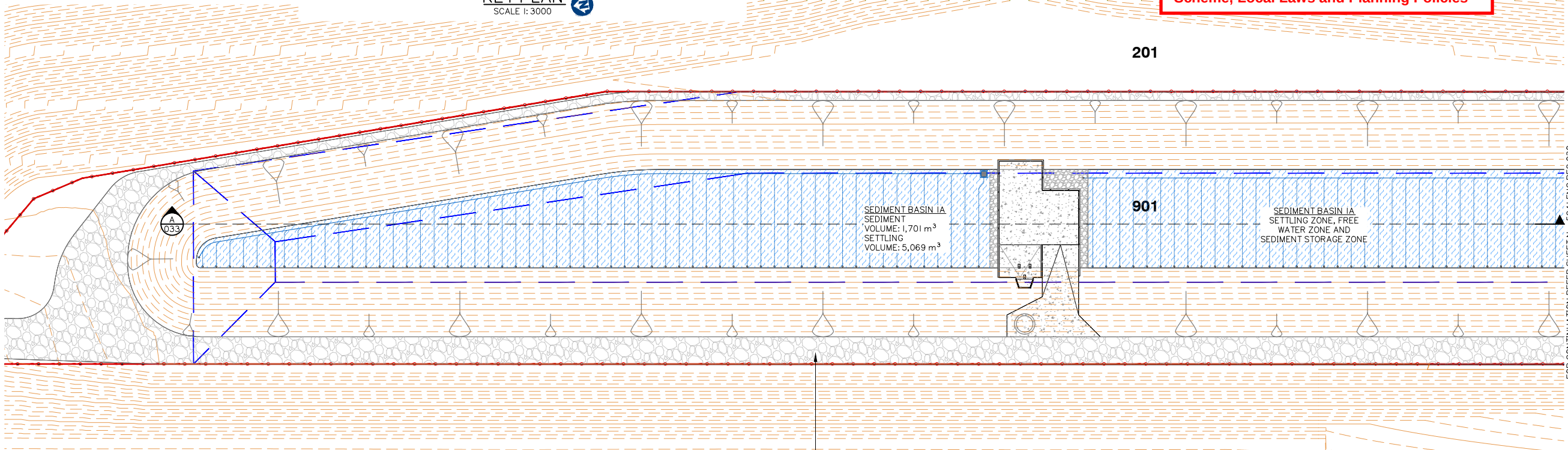
Rev. No:
B

NOTES:

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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-IA	> 12 MONTHS	NO	LEASE	> 5Ha	YES	TYPE A	IFOD-FLOW	

BASIN ID	CATCHMENT AREA	DESIGN EVENT	$I_{x \text{ yr, 24 hr}}$	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W: L	OPTIMUM LOW-FLOW DECAT RATE	SELECTED LOW-FLOW DECAT RATE (Q_d)	MIN SETTLING ZONE VOLUME (Min V_s)	MIN SETTLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
LPoD-IA	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	VOLUME
LPoD-IA	23.067	1	4.53	20	11150	1.9	5.1	9	9	5669	2315	

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
LPoD-IA	(m³)	(m²)	(m/s)	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)
LPoD-IA	5669	2984	0.014	0.34	567	1701	0.76	3	29.89	152.42	3.00

SPILLWAY											
BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C_{10}	C	t_c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m³/s)	(m)	(m)	(m)	(m)
LPoD-IA	> 12 MONTHS	1: 50	0.80	0.92	25.00	143.00	8.43	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)
LPoD-IA	8.43	12.65	6.00	2.00	0.01	CONCRETE	5.00	0.013	4.419	0.42	0.57	12.70

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-IA	7369.3	152.4	29.9	3.00	1366.63	15.2	29.9	3.00	25.0	11.64	12.29	11.84	6.0	2.0	0.6

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 1 OF 4

Issue	Date	Description	LAB	MG
C	19/07/22	LAYOUT UPDATES	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	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:

[Signature]

Date:

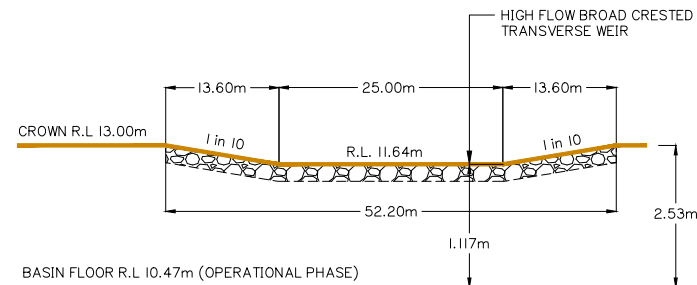
10/09/2021

Drawing No:

5941 ENG OPW2 058

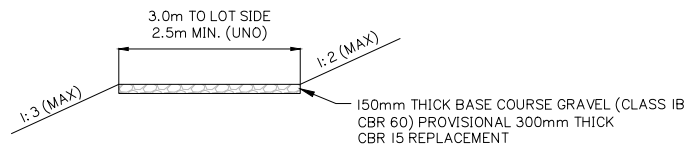
Rev. No:

C



WEIR / SPILLWAY - TYPICAL ELEVATION

N.T.S



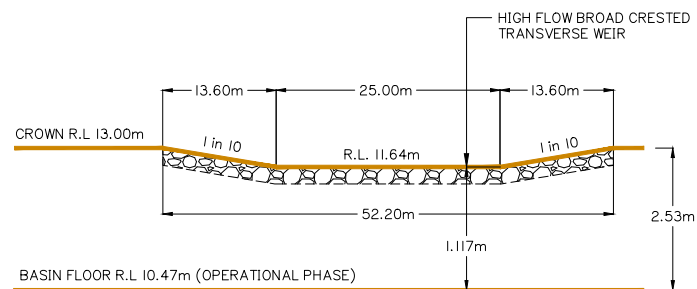
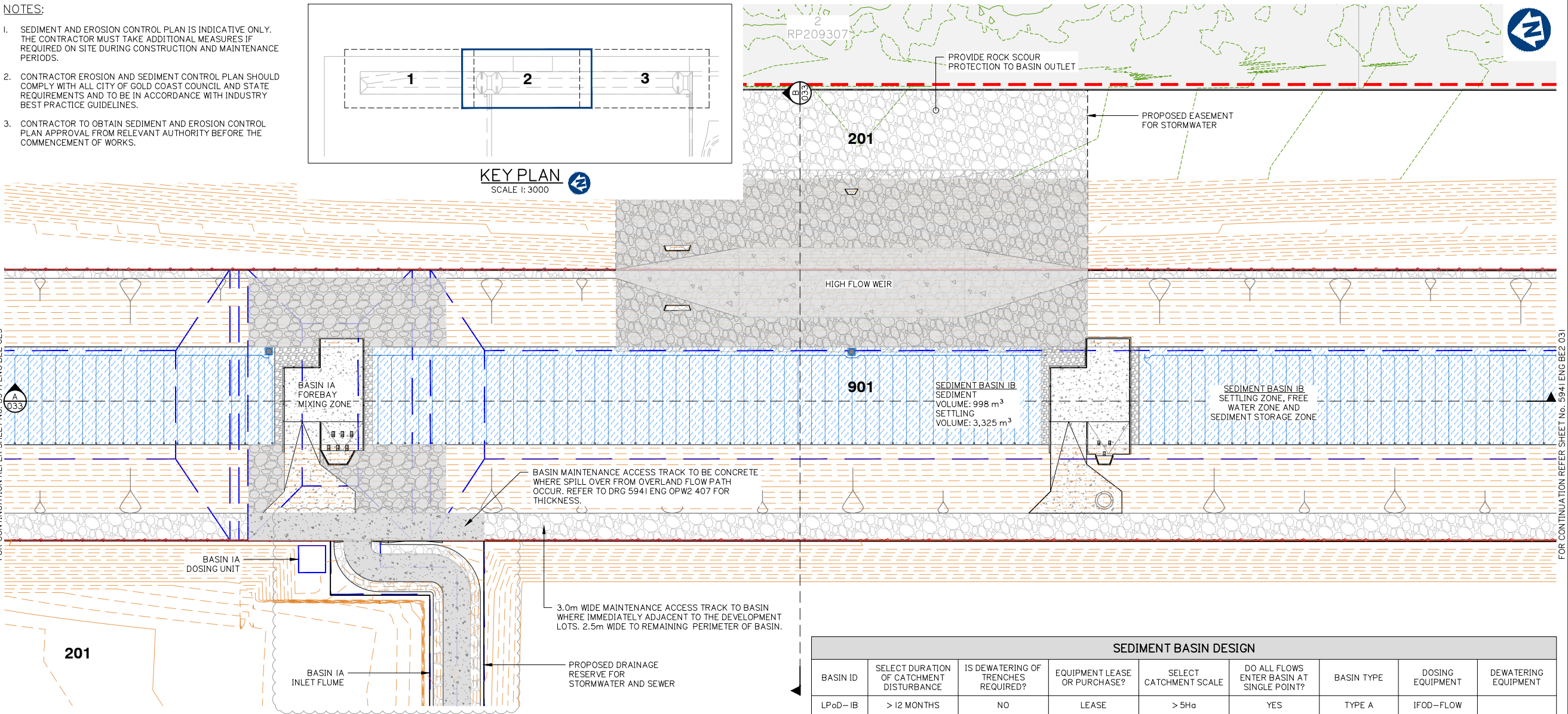
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N.T.S

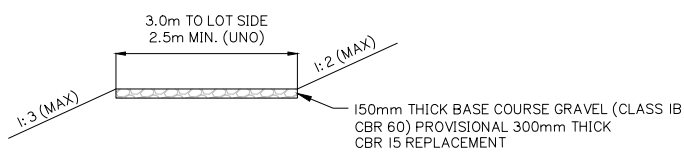
UNO DENOTES 'UNLESS NOTED OTHERWISE'

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.



WEIR / SPILLWAY – TYPICAL ELEVATION
N.T.S



MAINTENANCE ACCESS TRACK – TYPICAL SECTION
N.T.S

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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 (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 (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: 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

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 2 OF 4

Issue	Date	Description	LAB	MG
C	19/07/22	STORMWATER ALIGNMENT UPDATED	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG

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:

[Signature]

Date:

05/07/2022

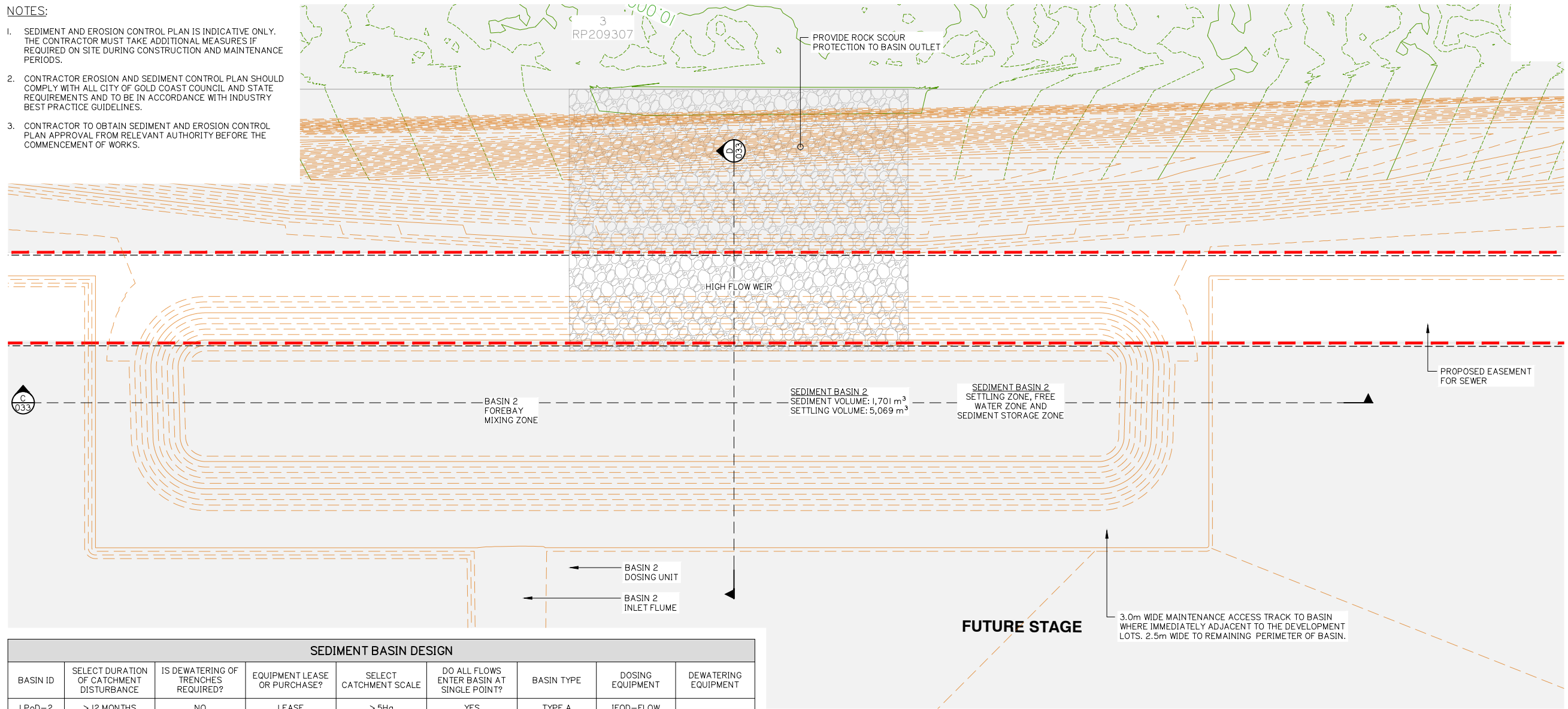
Drawing No:

5941 ENG OPW2 059

Rev. No:

C

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 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	$I_{x,yr, 24\ hr}$	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)	(I: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(I: X)	(L/s/Ha)	(L/s/Ha)	(m^3)	(m^2)	
LPoD-2	9.904	I	4.53	20	11150	1.76	3	9	9	2434	994	VOLUME

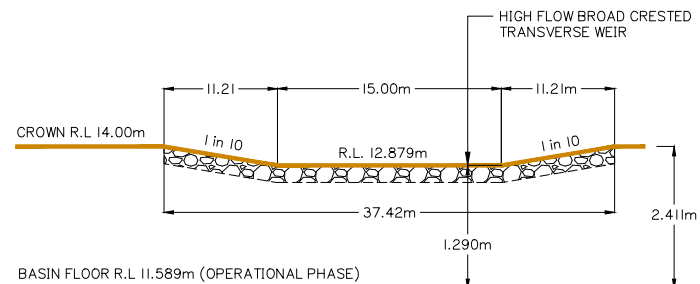
	SETTLING ZONE			FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
BASIN ID	ACTUAL SETTLING ZONE VOLUME (V _s)	ACTUAL SETTLING ZONE AREA (A _s)	SCOUR VELOCITY	DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
	(m ³)	(m ²)	(m/s)	(m)	(m ³)	(m ³)	(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	SPILLWAY										
	BASIN DESIGN LIFE	DESIGN ARI	C ₁₀	C	t _c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m ³ /s)	(m)	(m)	(m)	(m)
LPoD-2	> 12 MONTHS	1: 50	0.80	0.92	25	143	3.62	0.20	15.0	12.879	13.529

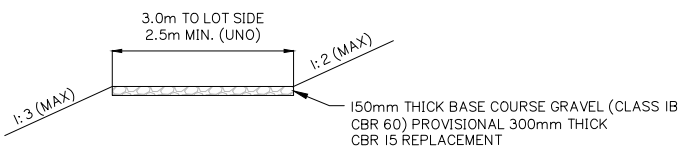
	FLOW RATE		FLUME DESIGN PARAMETERS				VELOCITY CHECK			OUTPUT PARAMETERS		
BASIN ID	BASIN DESIGN FLOW (m ³ /s)	FLUME DESIGN FLOW (m ³ /s)	BASE WIDTH (m)	SLIDE SLOPE (1: x)	LONGITUDINAL SLOPE (m/m)	FLUME LINING	MAX ALLOWABLE VELOCITY (m/s)	MANNINGS ROUGHNESS	VELOCITY (m/s)	FLOW DEPTH (m)	FLUME DEPTH (m)	CALCULATED FLOW (m ³ /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



N.T.S



N.T.S

UNO DENOTES 'UNLESS NOTED OTHERWISE'



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

CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT SHEET 4 OF 4

B	26/11/21	ISSUED FOR CONSTRUCTION		LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE		LAB	MG
A	30/07/21	ORIGINAL ISSUE		LAB	MG
Issue	Date	Description		DRN	CHK

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

1:250

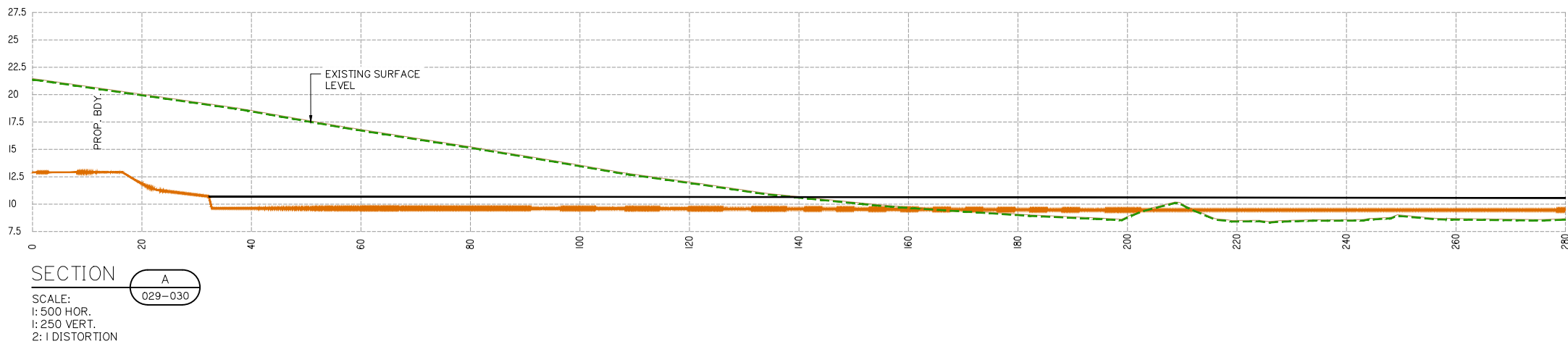
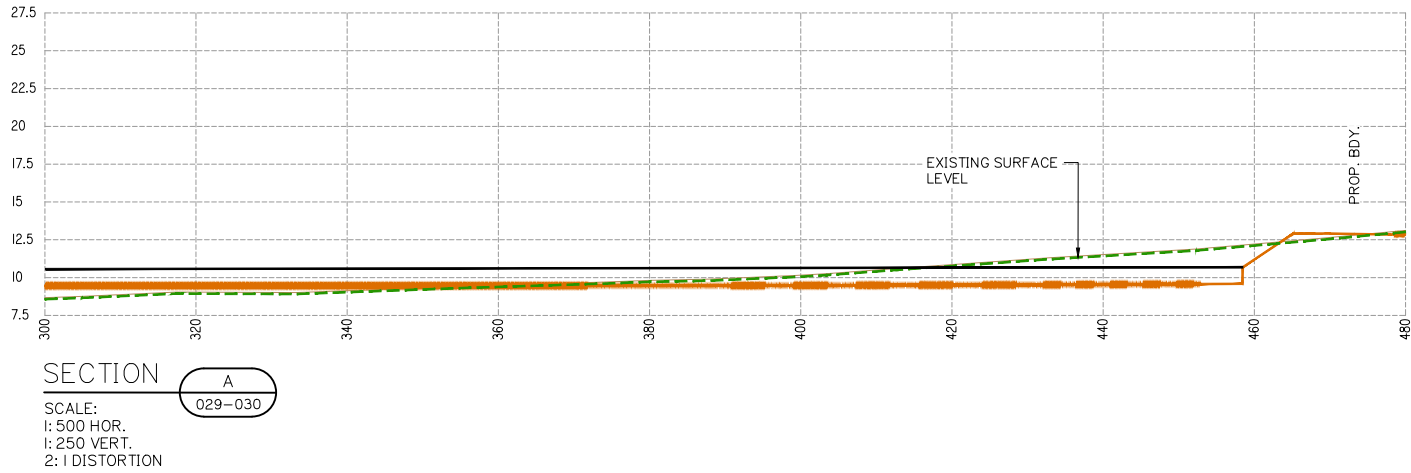
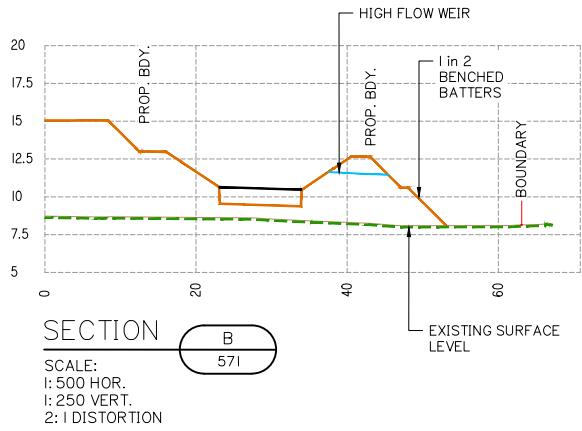
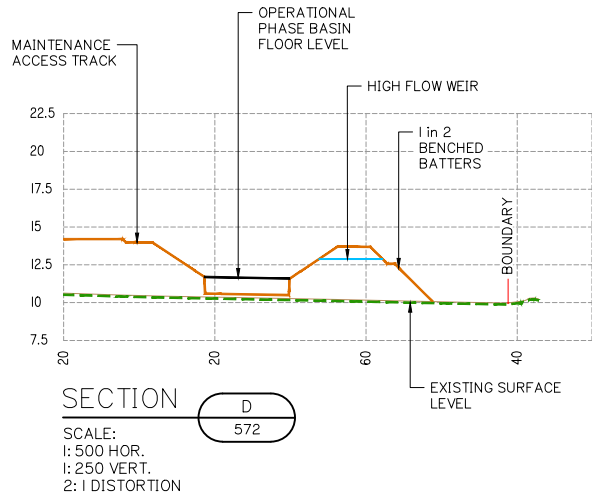
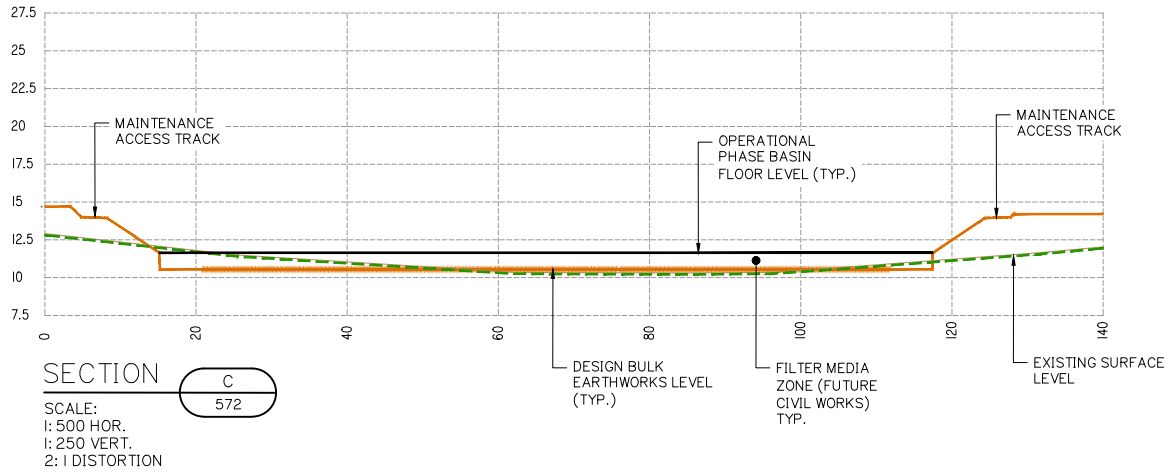
G
LAB / IG

MG

16939

Michael Kane

5941 ENG OPW2 061



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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



planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 176 Business Street, Yatala QLD | PO Box 392, Beenleigh 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
CONSTRUCTION PHASE
SEDIMENT BASIN
SECTIONS

B	26/11/21	ISSUED FOR CONSTRUCTION	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)

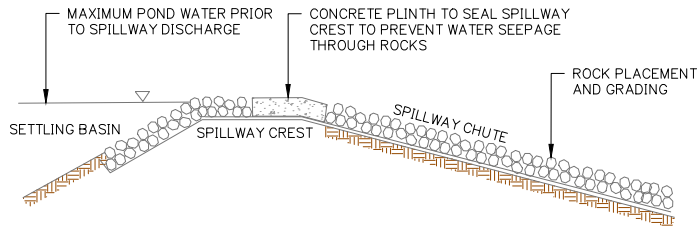
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

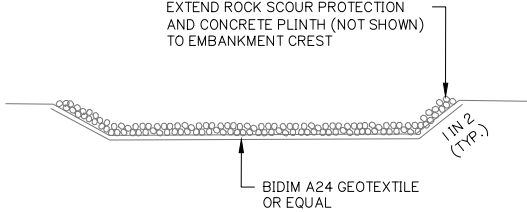
Drawing No:
5941 ENG OPW2 062

Rev. No:
B

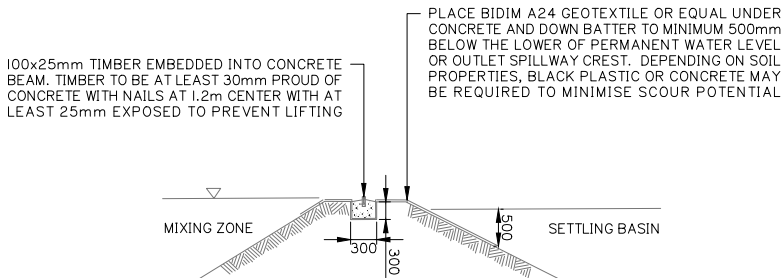
CONSTRUCTION PHASE SEDIMENT BASIN SECTIONS



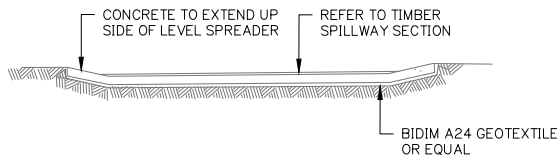
OUTLET SPILLWAY DETAILS
TYPICAL CROSS SECTION
NOT TO SCALE



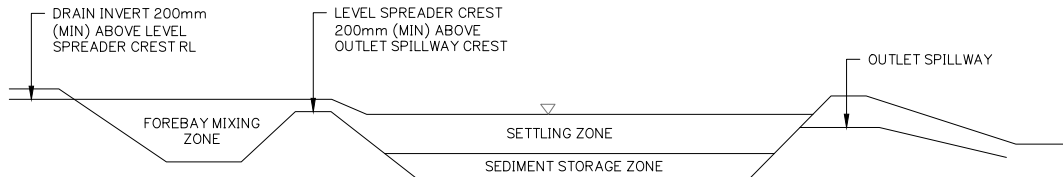
OUTLET SPILLWAY DETAILS
TYPICAL LONGITUDINAL SECTION
NOT TO SCALE



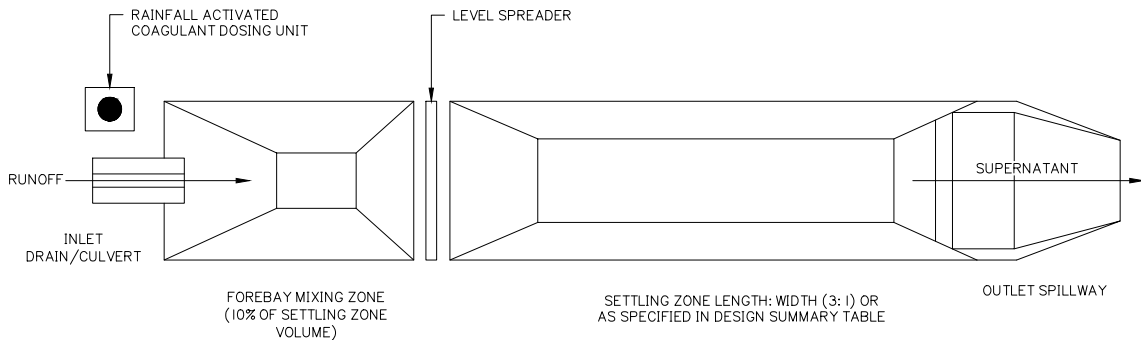
LEVEL SPREADER DETAILS
TYPICAL CROSS SECTION
NOT TO SCALE



LEVEL SPREADER DETAILS
TYPICAL LONG SECTION
NOT TO SCALE



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



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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN TYPICAL
SECTIONS

B	26/11/21	ISSUED FOR CONSTRUCTION	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)

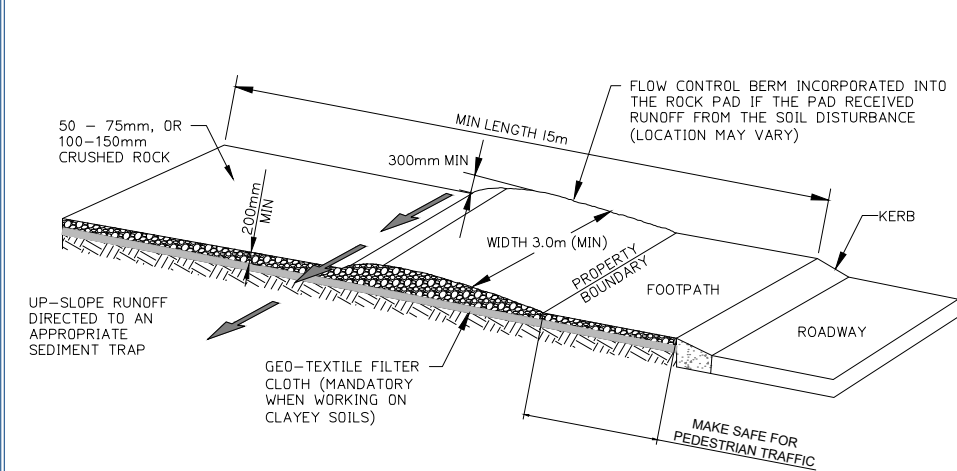
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

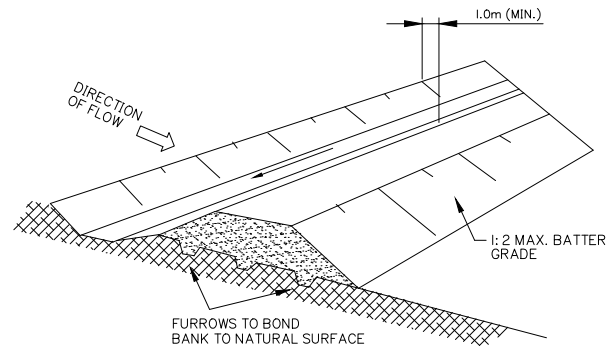
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5941 ENG OPW2 063

Rev. No:
B

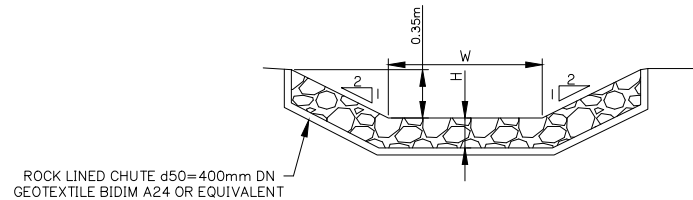
CONSTRUCTION PHASE SEDIMENT BASIN TYPICAL SECTIONS



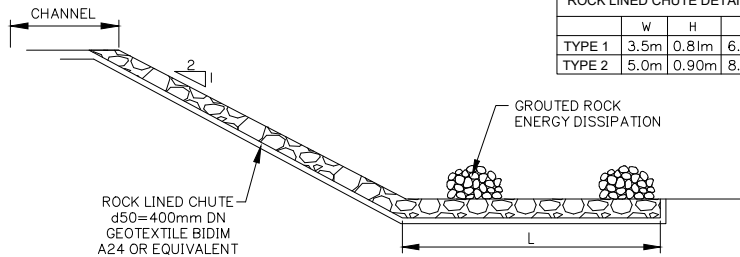
ENTRY/EXIT PAD FOR CONSTRUCTION SITE
NOT TO SCALE



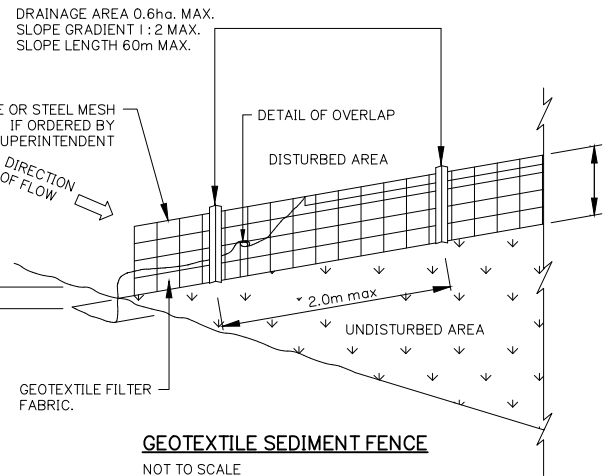
DIVERSION DRAIN
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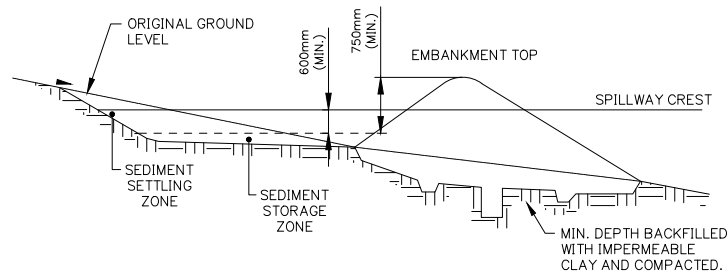
ROCK LINED CHUTE DETAILS			
	W	H	L
TYPE 1	3.5m	0.81m	6.0m
TYPE 2	5.0m	0.90m	8.0m



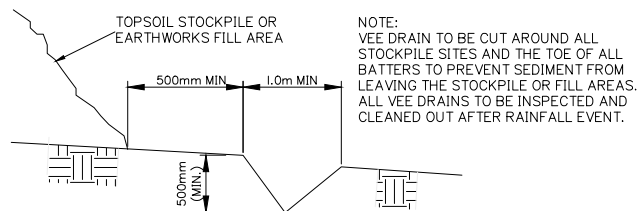
ROCK LINED CHUTE
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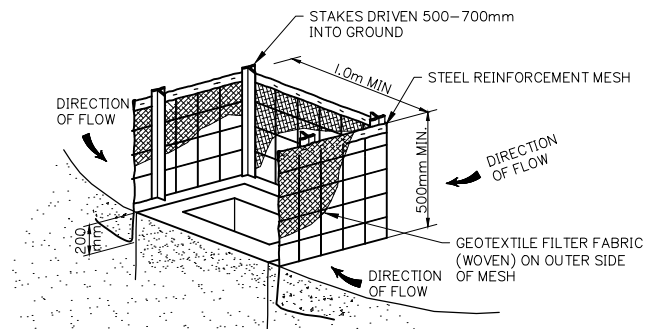
GEO-TEXTILE SEDIMENT FENCE
NOT TO SCALE



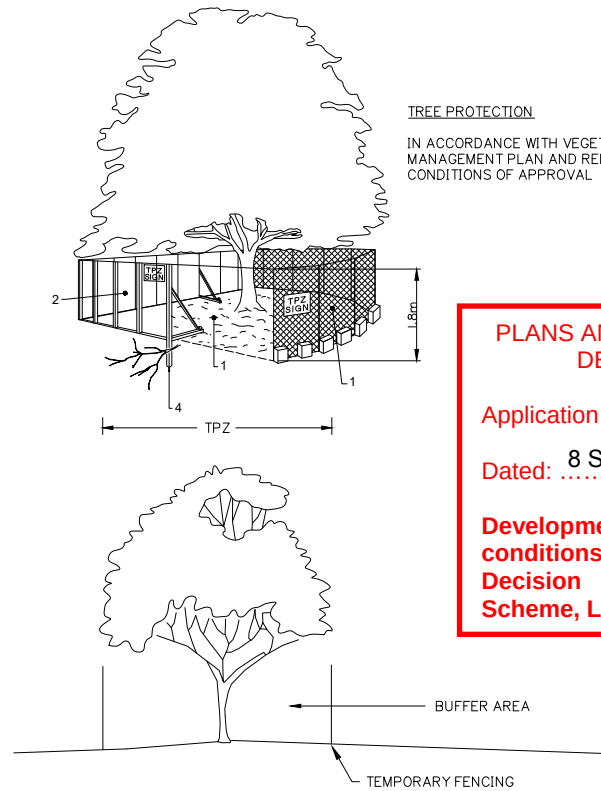
TYPICAL SEDIMENT BASIN
NOT TO SCALE



TYPICAL SECTION VEE DRAIN
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: **MIN/2022/341**

Dated: **8 September 2022**

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

FENCING AS PER AS: 4970

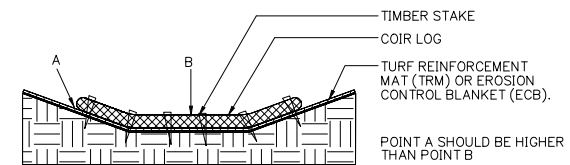
1. CHAIN WIRE MESH PANELS WITH SHADE CLOTH (IF REQUIRED) ATTACHED, HELD IN PLACE WITH CONCRETE FEET.
2. ALTERNATIVE PLYWOOD OR WOODEN PALING FENCE PANELS. THIS FENCING MATERIAL ALSO PREVENTS BUILDING MATERIALS OR SOIL ENTERING THE TPZ.
3. MULCH INSTALLATION ACROSS SURFACE OF TPZ (AT THE DISCRETION OF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

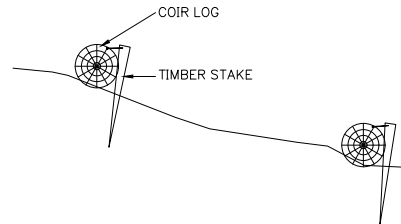
THE RADIUS OF THE TPZ IS CALCULATED FOR EACH TREE BY MULTIPLYING ITS DBH X 12 = TRUNK DIAMETER MEASURED AT 1.4M ABOVE GROUND. RADIUS IS MEASURED FROM THE CENTRE OF THE STEM AT GROUND LEVEL.

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.

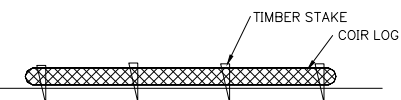
PROTECTIVE FENCING
NOT TO SCALE



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:

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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DRAWING TITLE
**SEDIMENT AND EROSION
TYPICAL DETAILS**

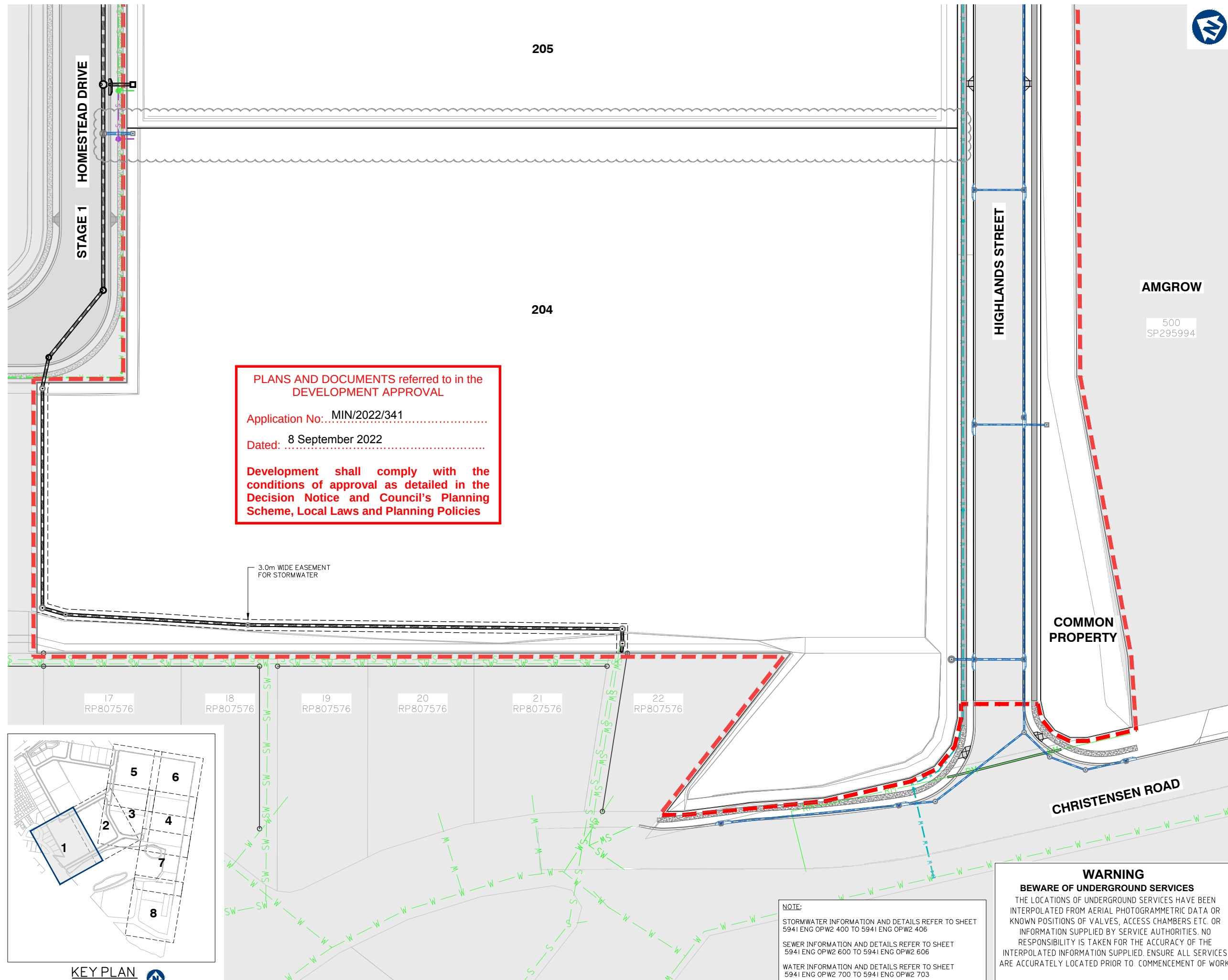
Rev	Date	Description	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
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A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

**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



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
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
OVERALL SERVICES
LAYOUT PLAN
SHEET 1 OF 8

Issue	Date	Description	LAB	MG	DRN	CHK
D	19/07/22	LOT BOUNDARY, STORMWATER AND SEWER UPDATED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG		
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

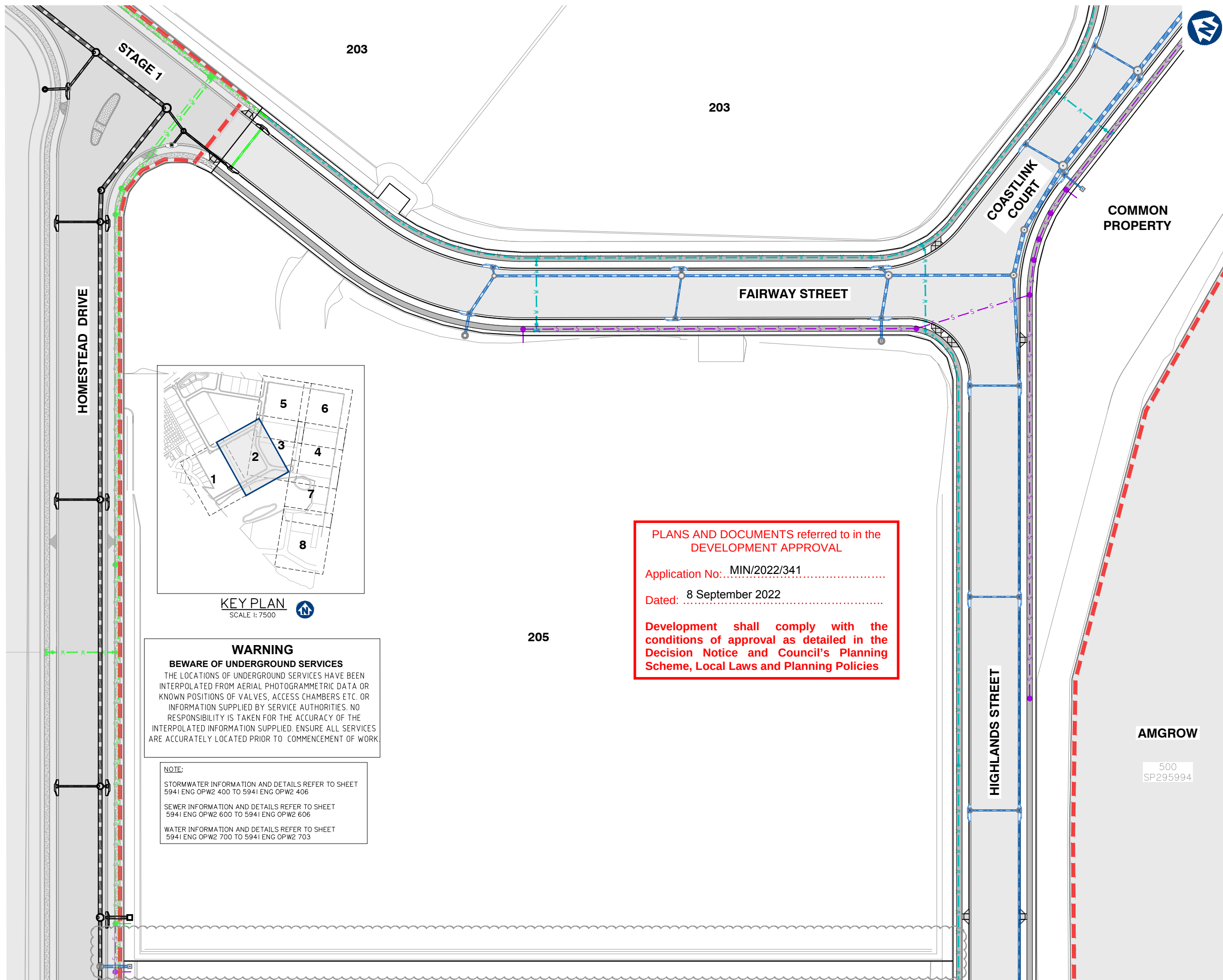
Approved: MG

RPEQ: 16939

Signed:

Date: 05/07/2022

Drawing No:
5941 ENG OPW2 300Rev. No:
D



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

OVERALL
SERVICES LAYOUT
PLAN SHEET 2 OF 8

Issue	Date	Description	LAB	MG	DRN	CHK
D	19/07/22	LOT BOUNDARY, LOT NUMBER, CONTOURS UPDATED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		

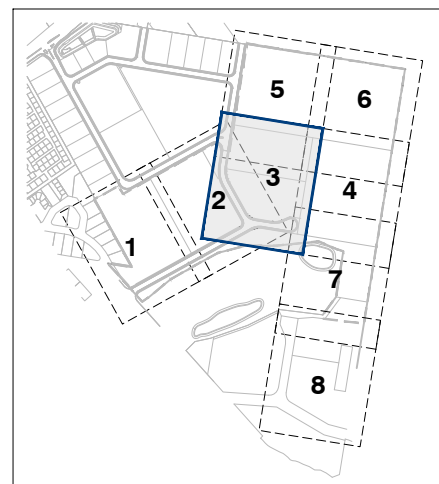
SCALE IN METRES

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:	05/07/2022

Drawing No:
5941 ENG OPW2 301Rev. No:
D



KEY PLAN
SCALE 1:7500

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

201

203

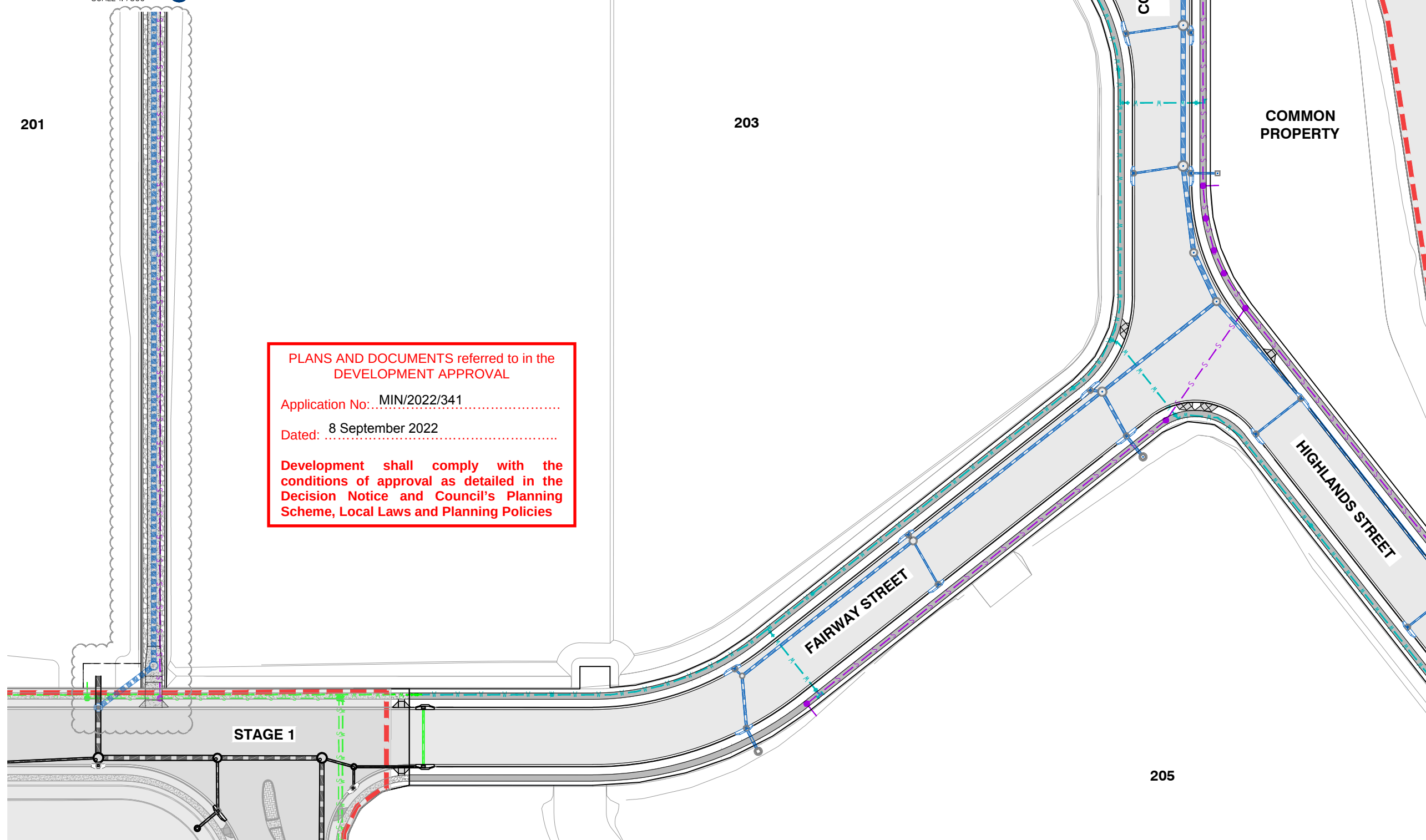
COMMON
PROPERTY

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

OVERALL
SERVICES LAYOUT
PLAN SHEET 3 OF 8

Issue	Date	Description	LAB	MG	DRN	CHK
D	19/07/22	LOT BOUNDARY, STORMWATER AND SEWER UPDATED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	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 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No:
5941 ENG OPW2 302

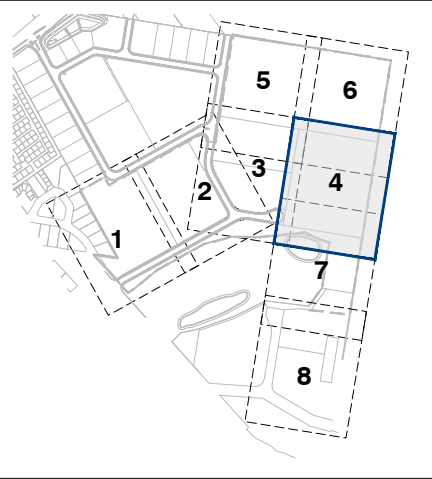
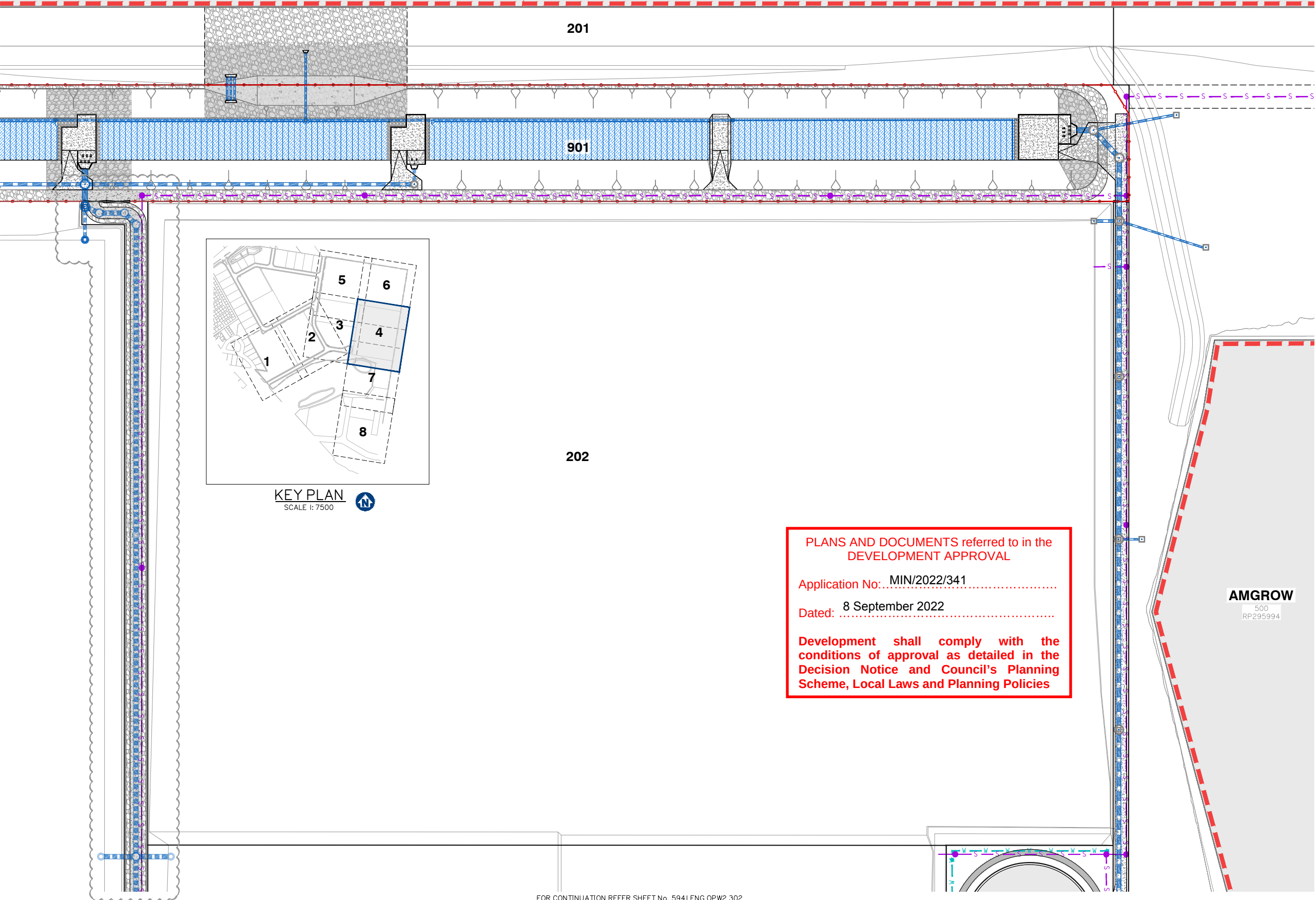
Rev. No:
D

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



KEY PLAN
SCALE 1: 7500

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
OVERALL SERVICES LAYOUT PLAN SHEET 4 OF 8

Issue	Date	Description	LAB	MG	DRN	CHK
C	19/07/22	LOT BOUNDARY, STORMWATER AND SEWER UPDATED	LAB	MG		
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
A	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
	30/07/21	ORIGINAL ISSUE	LAB	MG		

SCALE IN METRES
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1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

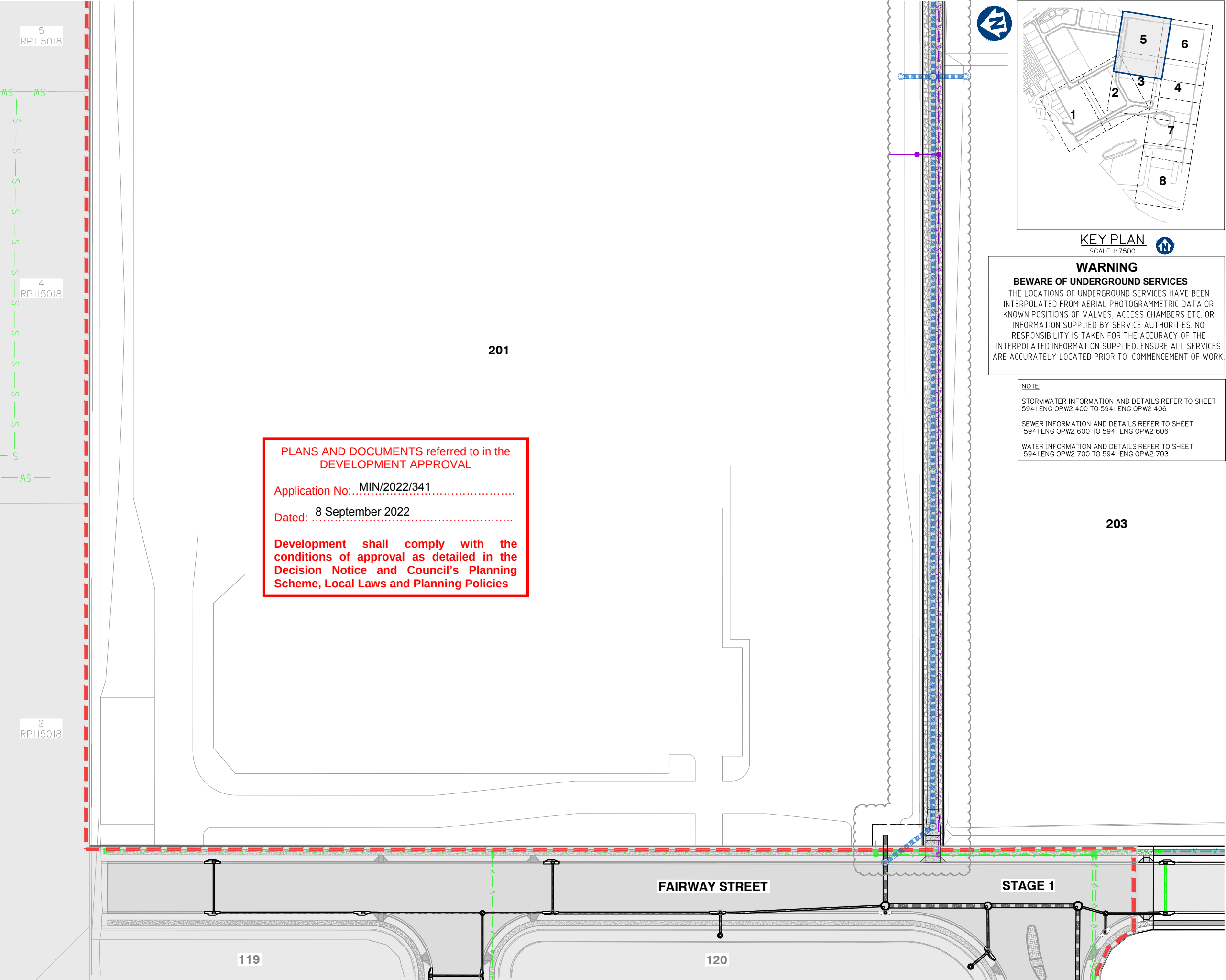
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

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

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 305

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 306

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 302

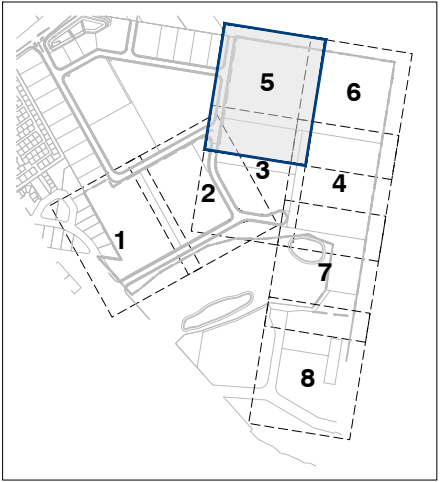


PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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



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

Issue	Date	Description	LAB	MG	DRN	CHK
D	19/07/22	LOT BOUNDARY, STORMWATER AND SEWER UPDATED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		

Scale at A1:	1:500
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

2
RP153665

2
RP209307

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

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ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK.



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

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DRAWING TITLE

OVERALL SERVICES LAYOUT
PLAN SHEET 6 OF 8

Issue	Date	Description	LAB	MG	DRN	CHK
C	19/07/22	LOT BOUNDARY, STORMWATER AND SEWER UPDATED	LAB	MG		
B	26/11/21	ISSUED FOR CONSTRUCTION	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 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No:
5941 ENG OPW2 305

Rev. No:
C

1
RP153665

5
RP115018

201

202

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: MIN/2022/341

Dated: 8 September 2022

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

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 304

OVERALL SERVICES LAYOUT PLAN SHEET 6 OF 8

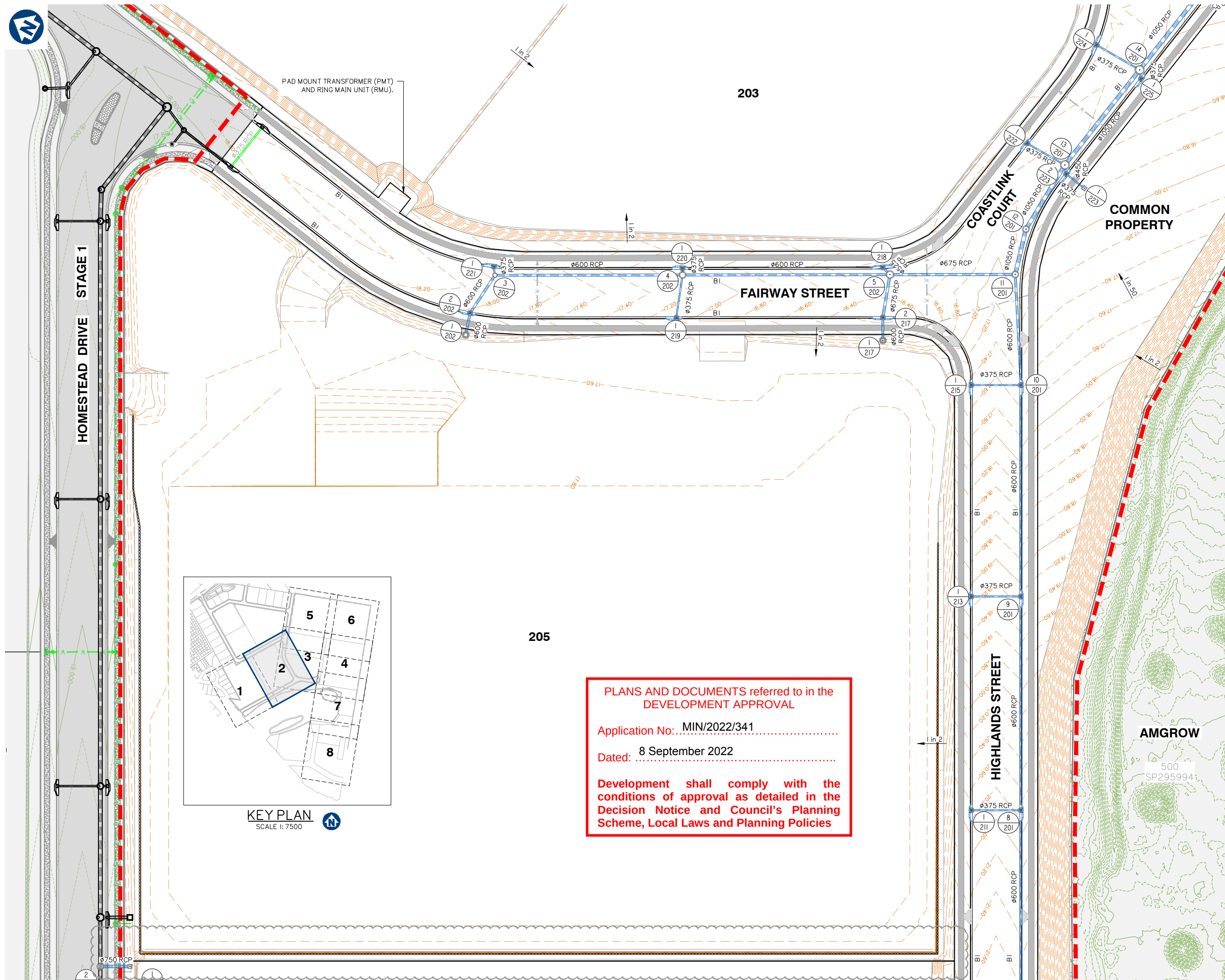


KEY PLAN
SCALE 1: 7500



FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 303





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 2 OF 7

Issue	Date	Description	LAB	MG
D	19/07/22	LOT BOUNDARY AND LOT 203 NUMBER	LAB	MG
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	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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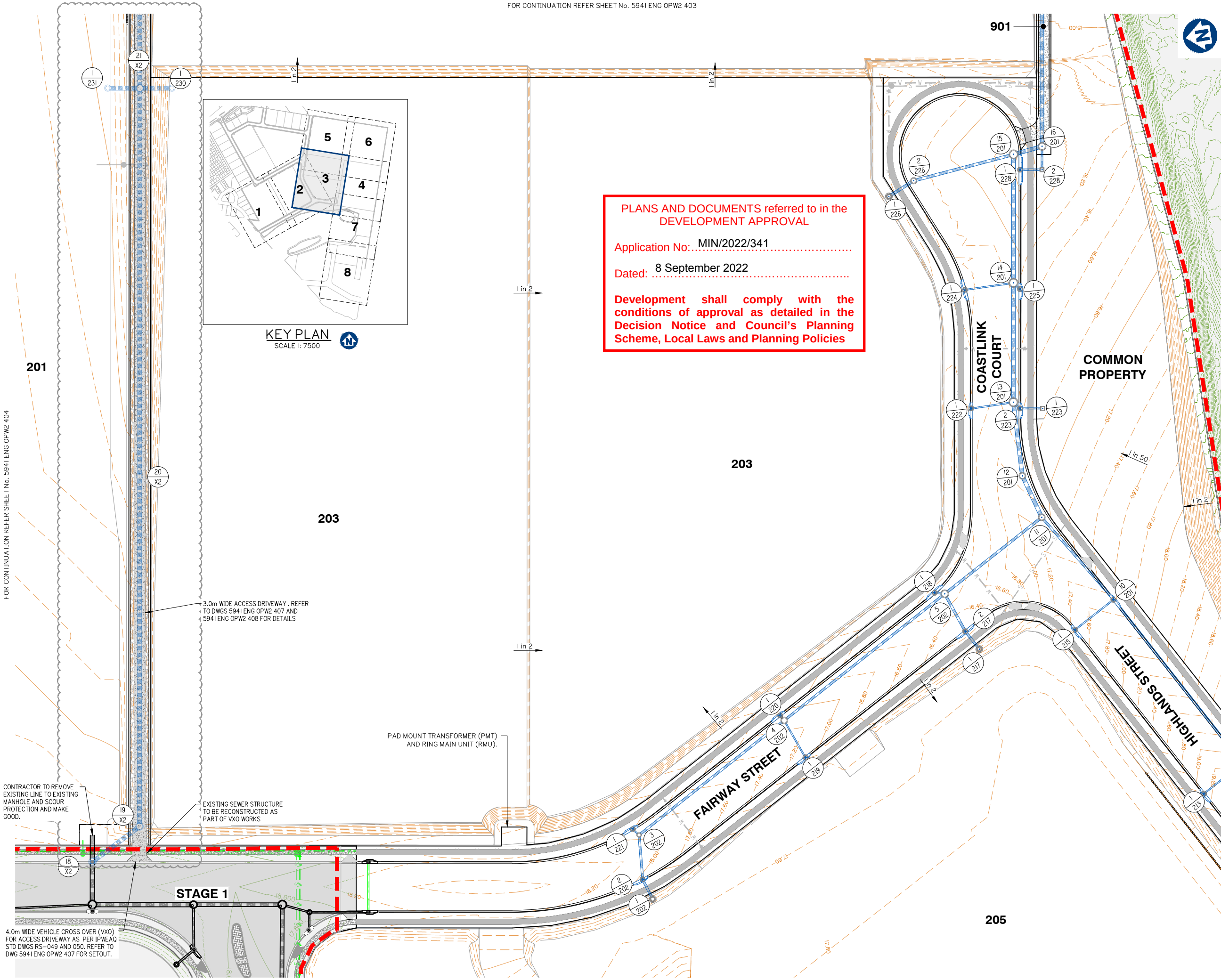
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No:
5941 ENG OPW2 401

Rev. No:
D



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

Issue	Date	Description	LAB	MG	DRN	CHK
D	19/07/22	LOT BOUNDARY STORMWATER SEWER UPDATED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		

SCALE IN METRES

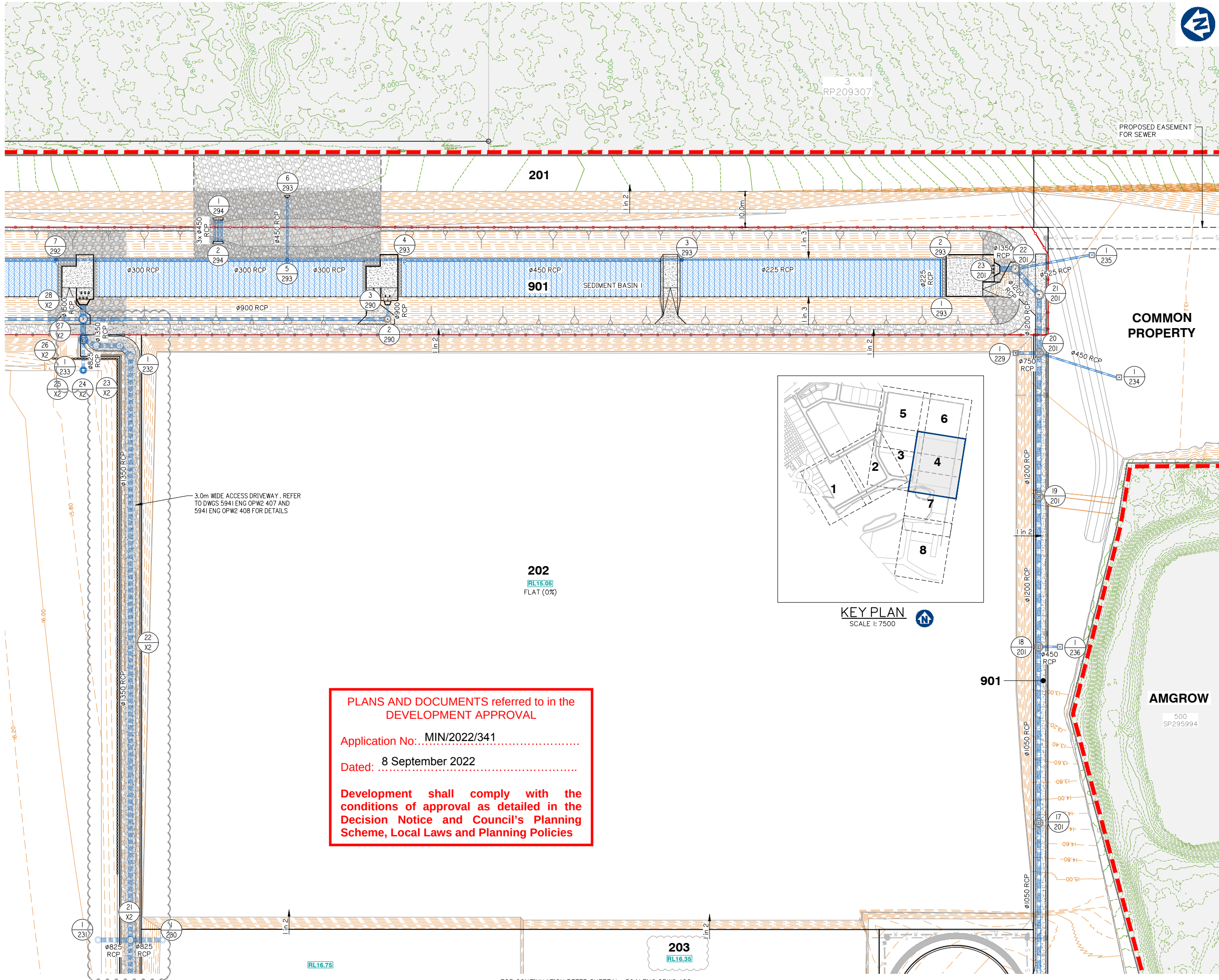
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed: IG
Drafted: LAB / IG
Approved: MG
RPEQ: 16939
Signed:
Date: 05/07/2022

Drawing No:
5941 ENG OPW2 402

Rev. No:
D

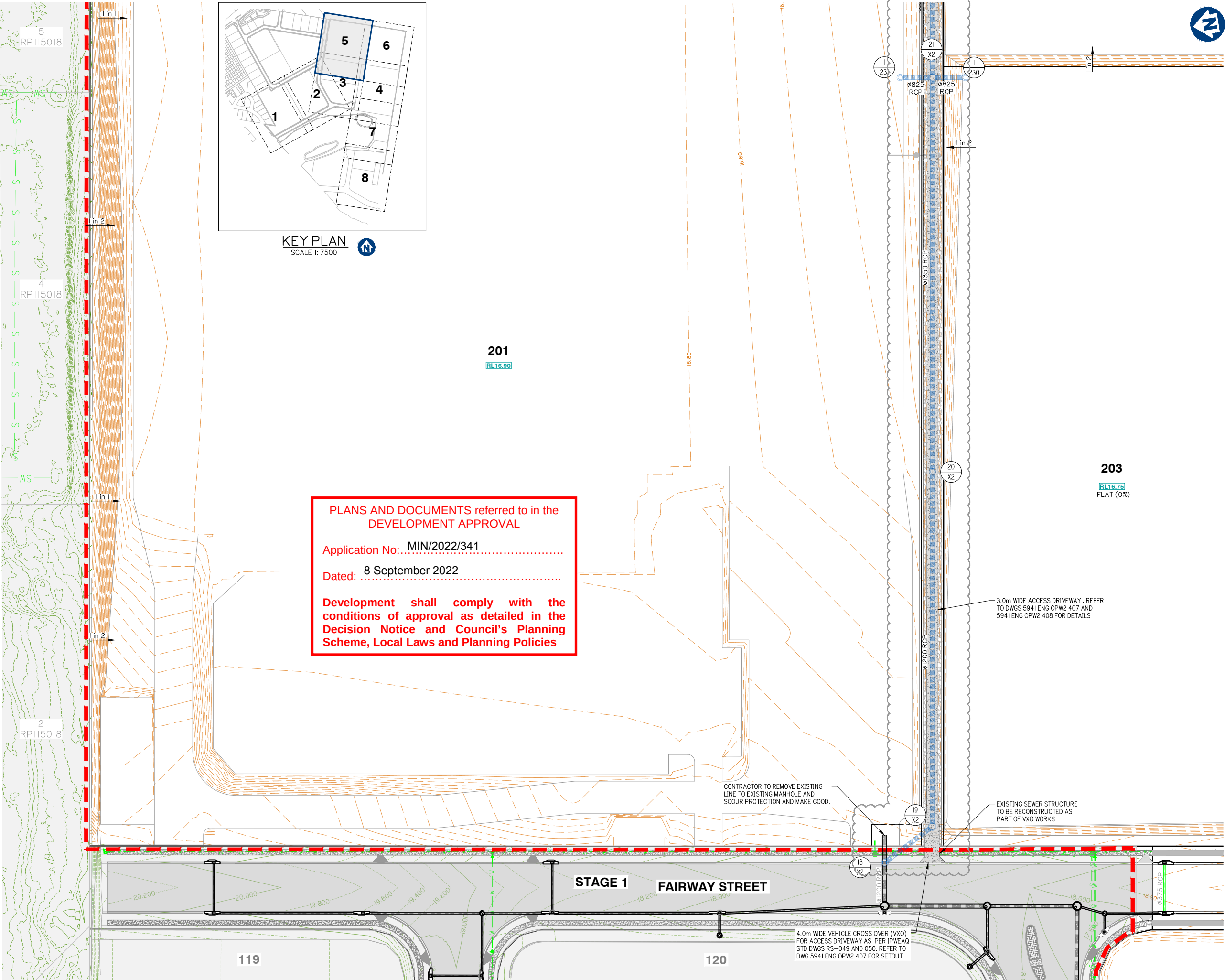


Rev.	Date	Description	LAB	MG
C	19/07/22	LOT BOUNDARY, NUMBER AND STORMWATER UPDATED	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
A	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
Issue	Date	Description	LAB	MG

Scale at A1:	1:500
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 405

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 406



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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Decision Notice and Council's Planning
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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
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	DRN	CHK
E	19/07/22	LOT BOUNDARY AND STORMWATER UPDATED	LAB	MG		
D	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
D	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG		
C	15/09/21	CONTOURS AMENDED	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 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed: IG

Drafted: LAB / IG

Approved: MG

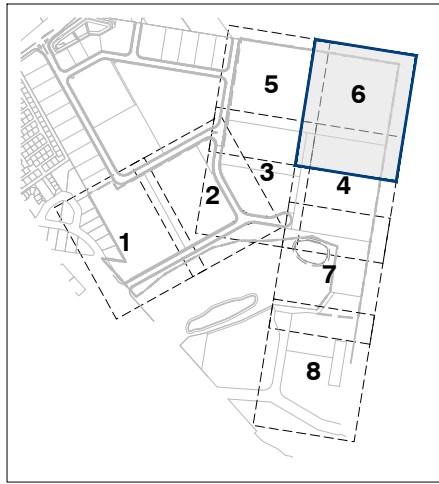
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Signed:

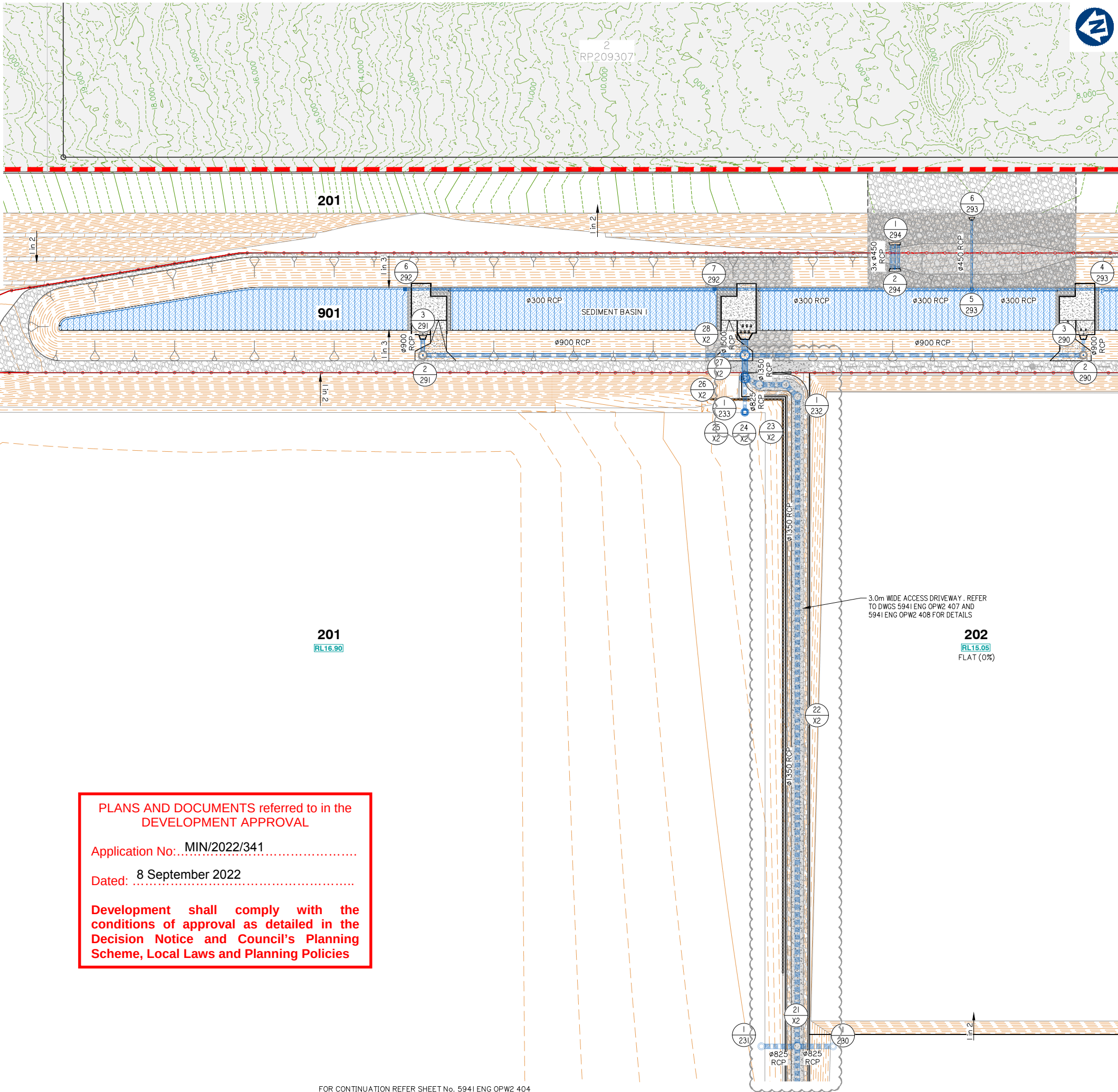
Date: 05/07/2022

Drawing No:
5941 ENG OPW2 404

Rev. No:
E



KEY PLAN
SCALE 1:7500



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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

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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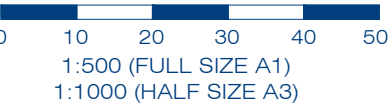
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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 6 OF 7

Rev	Date	Description	LAB	MG
C	19/07/22	LOT BOUNDARY AND STORMWATER UPDATED	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
A	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
Issue	Date	Description	LAB	MG

SCALE IN METRES



Scale at A1: 1:500

Designed: IG

Drafted: LAB / IG

Approved: MG

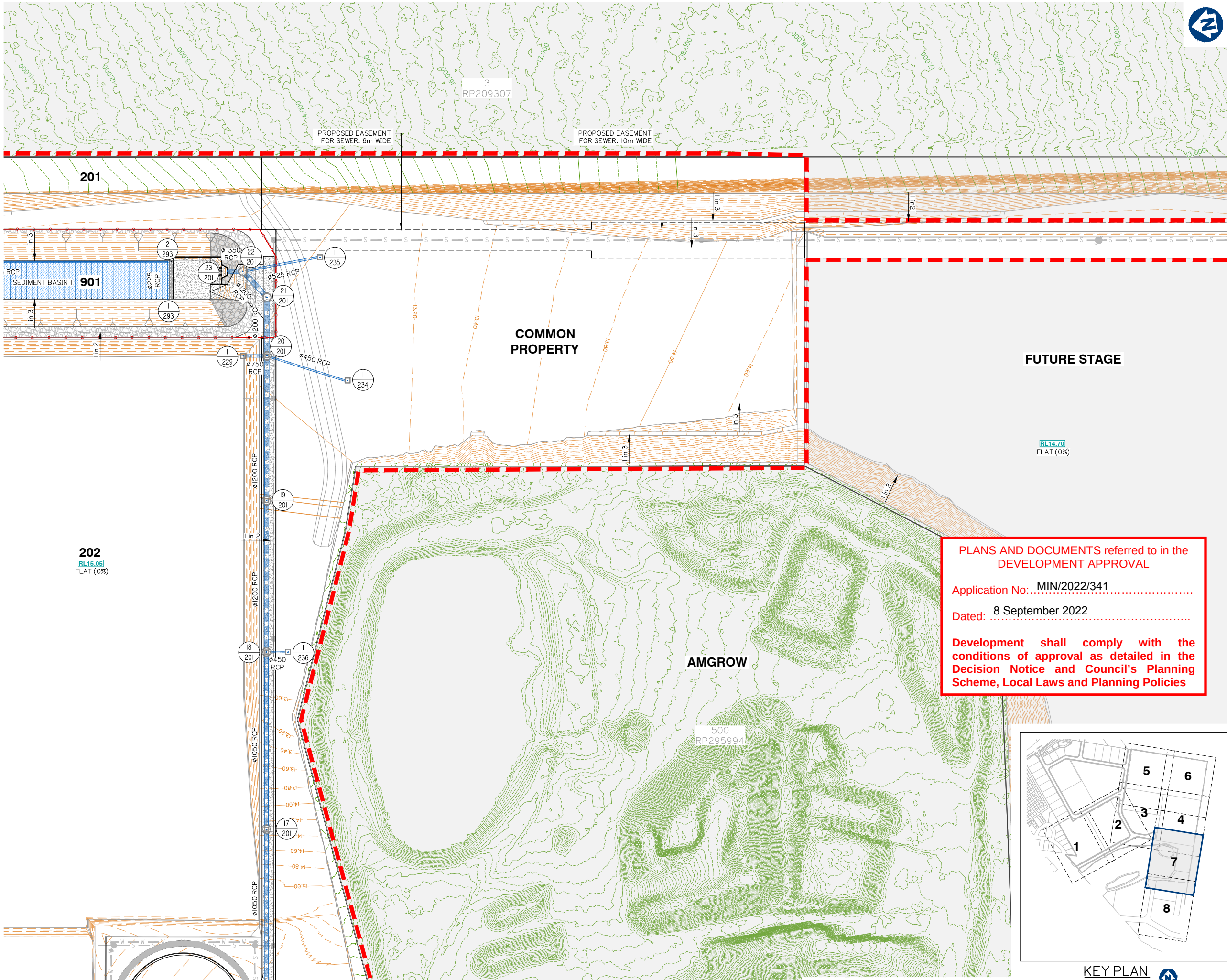
RPEQ: 16939

Signed:

Date: 05/07/2022

Drawing No:
5941 ENG OPW2 405

Rev. No:
C



FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 403

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

**Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
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KEY PLAN
SCALE 1: 7500

ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 7 OF 7



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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

ROADWORKS AND
DRAINAGE LAYOUT
PLAN SHEET 7 OF 7

Issue	Date	Description	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
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 406

Rev. No:
B

LOT 201

6.000m

DRAINAGE RESERVE

RP BDY

LOT 202/203

0.600m TO TOE OF WALL

0.300m TO BOTTOM OF BATTER

PROPOSED RETAINING WALL. EXACT SIZE AND EXTENTS TO BE DETERMINED DURING DETAILED DESIGN

BASIN ACCESS DRIVEWAY/OVERLAND FLOW PATH. REFER TYPICAL DRAINAGE RESERVE DETAIL

BATTER TO EXISTING. EXACT SLOPE AND EXTENTS TO BE DETERMINED DURING DETAILED DESIGN

SECTION A

SCALE 1: 50

LOT 201

300mm MIN

1.11m

6.000m DRAINAGE RESERVE

3.000m ACCESS DRIVEWAY

1.500m

1.500m

1.11m

300mm MIN

FALL

1 IN 2

0.300m

DRIVEWAY

Q100 FLOOD LEVEL

3%

3%

0.300m FREEBOARD

1 IN 2

FALL

ROCK SCOUR PROTECTION

3.0m WIDE CONCRETE ACCESS DRIVEWAY

SETOUT LOCATION

ROCK SCOUR PROTECTION

PROPOSED ϕ 1200 RCP CLASS 3 STORMWATER PIPE. LOCATION INDICATIVE ONLY. EXACT LOCATION TO BE DETERMINED DURING DETAILED DESIGN

PROPOSED ϕ 150 SEWER PIPE. 600mm MIN. CLEARANCE TO STORMWATER PIPE LOCATION INDICATIVE ONLY. EXACT LOCATION TO BE DETERMINED DURING DETAILED DESIGN.

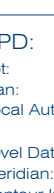


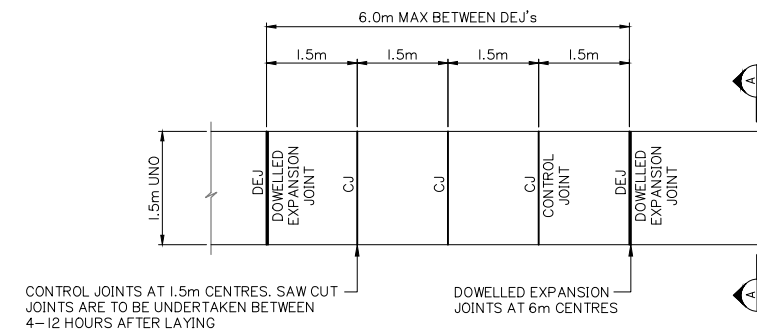
PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

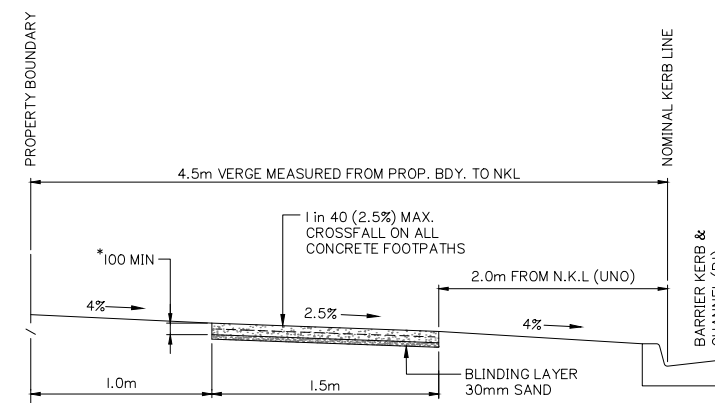
Development shall comply with the
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Project:				
VANTAGE YATALA STAGE 2				
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES				
DRAWING TITLE				
ACCESS DRIVEWAY TYPICAL DETAILS				
A	19/07/22	ORIGINAL ISSUE	JH	MG
Issue	Date	Description	DRN	CHK
SCALE IN METRES				
 0 20 40 60 80 100 1:1000 (FULL SIZE A1) 1:2000 (HALF SIZE A3)				
Scale at A1:		1:1000		
Designed:		IG		
Drafted:		LAB / IG		
Approved:		MG		
RPEQ:		16939		
Signed:				
Date:		05/07/2022		
Drawing No:		Rev. No:		
5941 ENG OPW2 408		A		



TYPICAL CONCRETE JOINTING PLAN
SCALE: N.T.S

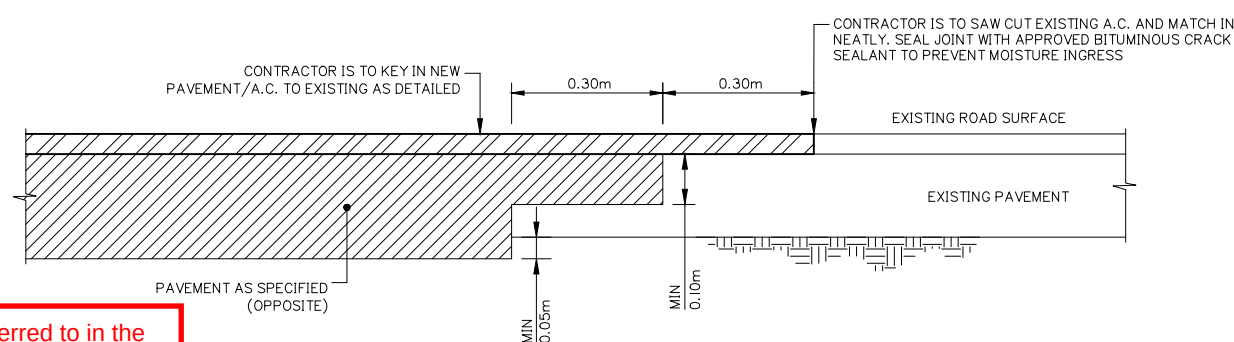
SCALE: N.T.S.



1.5m CONCRETE FOOTPATH DETAIL IN VERGE

SCALE: N.T.S

SECTION A
SCALE: NTS



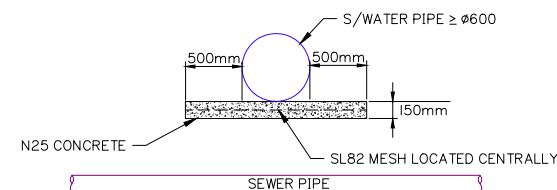
CONNECTION TO EXISTING PAVEMENT
N.T.S

TYPICAL DETAIL
SHOWING LONGITUDINAL CONSTRUCTION DETAIL FOR
CONNECTION TO EXISTING PAVEMENT / A.C.

Application No: MIN/2022/341

Dated: 8 September 2022

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



BRIDGING DETAILS FOR
STORMWATER PIPES $\geq \phi 600$
NOT TO SCALE

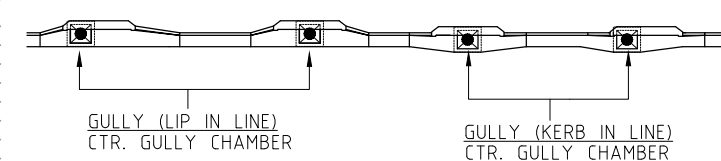
OUTLET PROTECTION TABLE									
CULVERT No.	PIPE Ø	OUTLET VELOCITY	LENGTH OF PROTECTION	UPSTREAM WIDTH	DOWNSTREAM WIDTH	NOMINAL ROCK SIZE	THICKNESS OF PROTECTION	PROTECTION AREA	PROTECTION VOLUME
	D (mm)	V (m/s)	L (mm)	Wu (mm)	Wd (mm)	d ₅₀ (mm)	t (mm)	(m ²)	(m ³)
* 25/X2	1500	4.31	15000	2370	7968	500	1000	77.5	77.5
* 290/3	900	1.82	5400	2040	3860	200	700	15.9	6.4
* 291/3	900	1.83	5400	2040	3860	200	700	15.9	6.4
* 23/201	1350	2.24	10800	2370	6288	300	600	46.8	28.1
293/6	450	2.15	2700	1850	2690	200	400	6.1	2.5
294/1	3/450	1.56	3600	3700	4660	400	600	7.5	4.5

The diagram illustrates a cross-section of a road construction detail. A pipe with diameter D is shown on the left, with an arrow indicating flow. The pipe is surrounded by a layer of aggregate with a thickness of 2×450 (MIN). The total length of the aggregate layer is L . The slope of the road surface is indicated as 1 in 2 (max). An "APPROVED NO-FINES GEOFABRIC" is shown as a dashed line separating the aggregate from the subgrade. The subgrade is shown as a hatched area at the bottom.

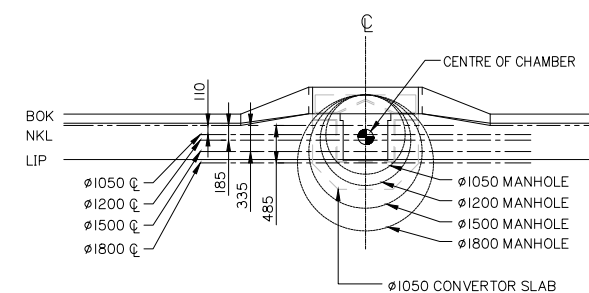
ROCK GRADATION TABLE						% OF ROCK SMALLER THAN SIZE SHOWN
SMALLEST DIMENSION IN (mm)						
150d ₅₀	200d ₅₀	300d ₅₀	400d ₅₀	500d ₅₀	600d ₅₀	
300	380	525	630	750	850	100
200	300	450	550	650	750	50–70
150	200	300	400	500	600	35–50
50	75	100	130	150	175	2–10

- MINIMUM THICKNESS ROCK PROTECTION: 800mm MIN – UNDERLAY ROCK PROTECTION WITH "TERRAFIX" XP310 GEOFABRIC OR EQUIVALENT.
- ROCKS SHALL BE DENSE, HARD & DURABLE.
- ANGULAR ROCK TO BE LAYED WITH LARGEST FACE VISIBLE.
- ROCK SIZE TO BE GRADED AS PER TABLE SHOWN.
- REFER ALSO ENERGY DISSIPATION DESIGN CALCULATIONS (ABOVE)

STRUCTURE TYPE	HORIZONTAL CONTROL (REFERENCE POINT LOCATION)	VERTICAL CONTROL (REFERENCE LEVEL)
MANHOLE	CENTRE OF MANHOLE	FINISHED SURFACE LEVEL
DRAINWAY GULLY PIT	SETOUT TO CENTRE OF CHAMBER BOK NKL LIP $\phi 1050$ ϕ $\phi 1200$ ϕ $\phi 1500$ ϕ $\phi 1050$ MANHOLE $\phi 1200$ MANHOLE $\phi 1500$ MANHOLE	FINISHED SURFACE LEVEL (INVERT OF KERB) REFER ALSO BELOW
HEADWALL	INTERSECTION OF HEADWALL FACE & PIPE CENTRELINE	INVERT LEVEL
FIELD INLET PIT	CENTRE OF PIT	FINISHED SURFACE LEVEL



DETAIL – SETOUT POINTS FOR IPWEA GULLY PITS



 DENOTES GIVEN STRUCTURE SETOUT LOCATION

CIRCULAR PRECAST DRAINWAY CONVERTOR SLABS ARE AVAILABLE IN SIZES LISTED BELOW:

1200 ID (1650 OD) x 150mm THICK – 1000mm HOLE

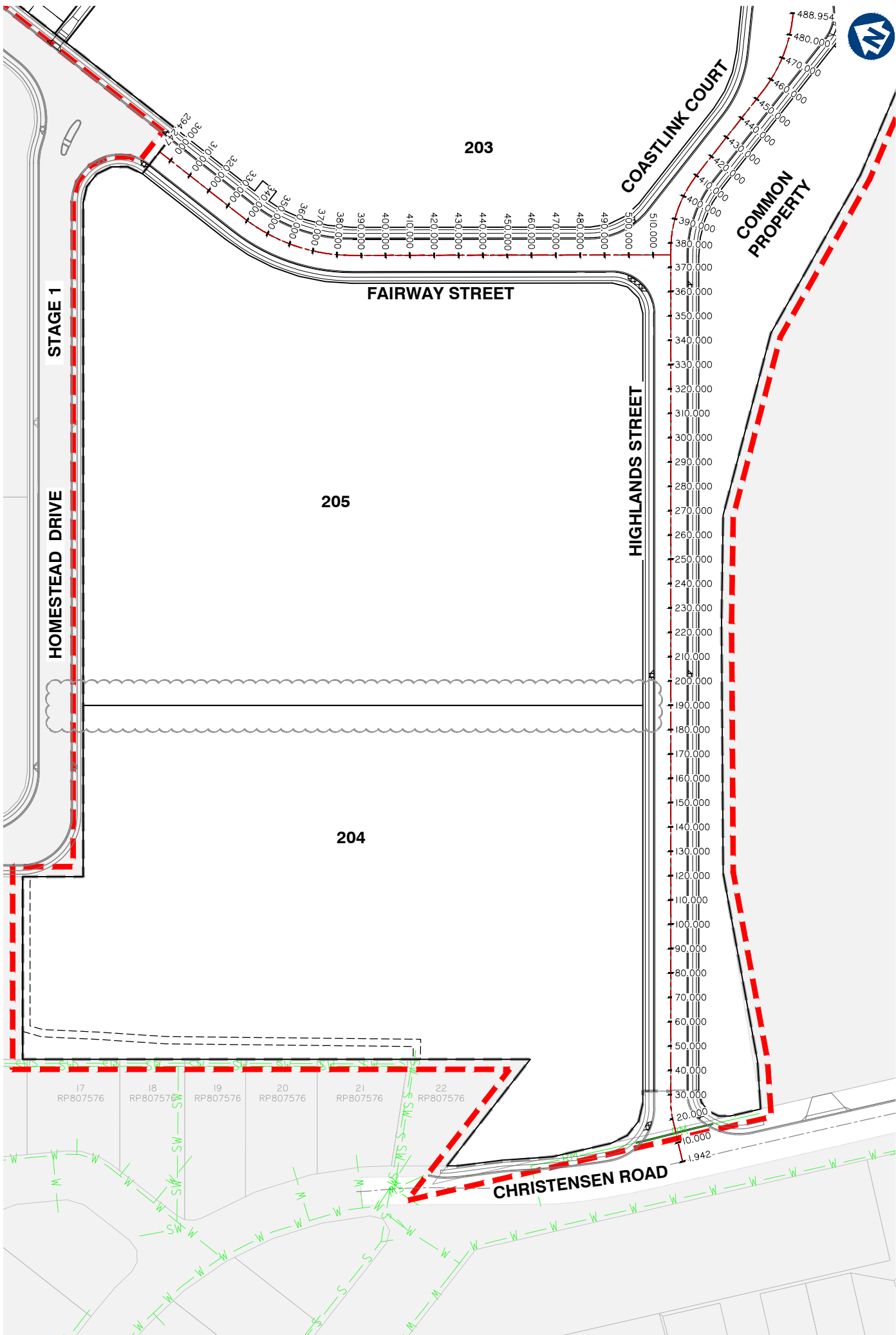
1350 ID (1830 OD) x 150mm THICK – 1000mm HOLE

1500 ID (1970 OD) x 175mm THICK – 1000mm HOLE

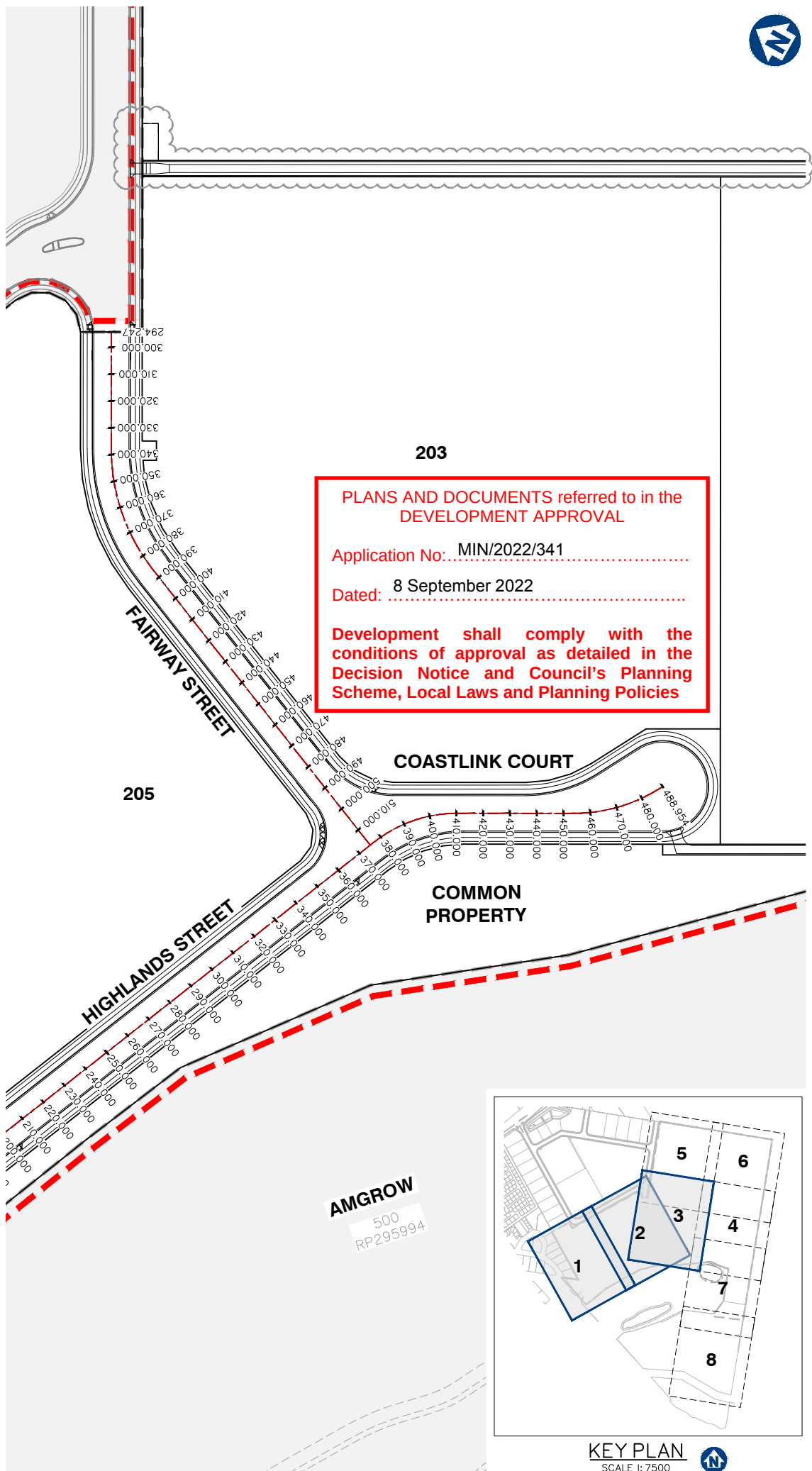
1650 ID (2100 OD) x 225mm THICK – 1000mm HOLE

1800 ID (2300 OD) x 225mm THICK – 1000mm HOLE

2000 ID (2450 OD) x 250mm THICK – 1000mm HOLE



CONTROL LINE LAYOUT PLAN



Client:



Project:

VANTAGE YATALA
STAGE 2

Site Address:

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ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

CONTROL LINE LAYOUT
PLAN

Issue	Date	Description	LAB	MG	LAB	MG	LAB	MG
C	19/07/22	LOT BOUNDARIES AND NUMBERS UPDATED	LAB	MG				
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG				
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG				
A	30/07/21	ORIGINAL ISSUE	LAB	MG				

SCALE IN METRES

0 20 40 60 80 100

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

Scale at A1: 1:1000

Designed: IG

Drafted: LAB / IG

Approved: MG

RPEQ: 16939

Signed:

Date: 05/07/2022

Drawing No:
5941 ENG OPW2 420

Rev. No:
C

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"			
	70.000	3040.586	6486.724	12.609	86°58'40.66"			
TC	73.800	3044.381	6486.924	12.596	86°58'40.66"			
	80.000	3050.522	6487.728	12.574	78°05'48.71"			
IP 3	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: MIN/2022/341

Dated: 8 September 2022

Development shall comply with the
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DRAWING TITLE

CONTROL LINE SETOUT
TABLES SHEET 2 OF 2

B	26/11/21	ISSUED FOR CONSTRUCTION			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

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



VANTAGE YATALA STAGE 2

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[illegible]

B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MC
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MC
A	30/07/21	ORIGINAL ISSUE	LAB	MC
Issue	Date	Description	DRN	CHI

Scale 1:500 - Lengths are in Metres.

HORZ: 

VERT:

AS SHOWN

IG

LAB / IG

MG

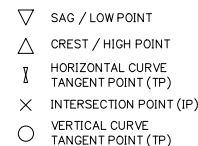
16939

Michael K...

10/09/2021

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



DATUM RL 9.000

HORIZONTAL CURVES

VERTICAL CURVES

VERTICAL GRADES

CHAINAGE	EXISTING SURFACE LEVEL	FINISHED SURFACE LEVEL
301.942	22.577	18.979
310	22.314	18.737
320	22.024	18.437
321.088	21.993	18.405
330	21.734	18.147
340	21.475	17.882
350	21.236	17.642
360	20.997	17.427
361.088	20.971	17.405
370	20.770	17.237
376.975	20.632	17.119
380	20.555	17.071
390	20.177	16.931
400	19.822	16.816
401.088	19.799	16.805
410	19.633	16.716
410.318	19.627	16.713
420	19.466	16.616
430	19.202	16.516
440	18.736	16.416
450	18.352	16.316
453.791	18.207	16.278
460	18.024	16.216
470	17.771	16.116
480	17.394	16.016
487.643	17.113	15.939
488.954	17.067	15.926

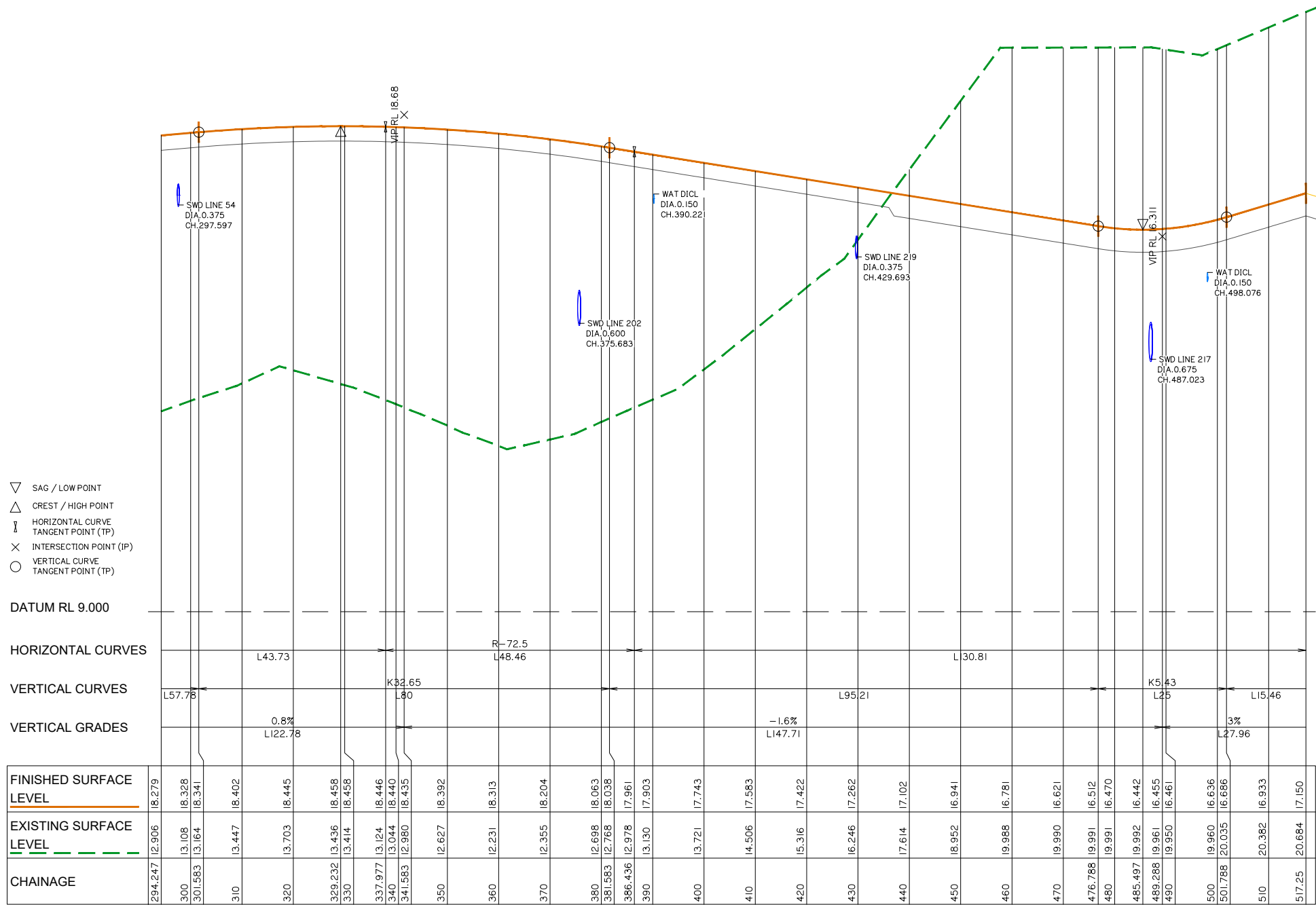
HIGHLANDS - LONGITUDINAL SECTION (cont.)

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

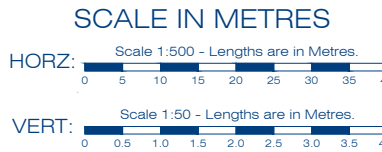
Dated: 8 September 2022

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FAIRWAY STREET - LONGITUDINAL SECTION

B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
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A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	



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

HORIZONTAL CURVE DATA

VERTICAL CURVE LENGTH (m)
VERTICAL CURVE RADIUS (m)
VERTICAL GEOMETRY GRADE (%)
VERTICAL GEOMETRY LENGTH (m)

DATUM RL = 10.200

FINISHED SURFACE LEVEL	12.85	12.816	12.816	12.802	12.781	12.758	12.747	12.712	12.678	12.643	12.609	12.596	12.574	12.541	12.54	12.505	12.498
EXISTING SURFACE LEVEL	12.816	12.874	12.871	12.896	12.861	12.886	12.747	12.959	13.033	13.056	13.069	13.074	13.06	12.947	12.941	12.78	12.747
CUT / FILL DEPTH	0.034	-0.059	-0.069	-0.115	-0.103	-0.139	-0.247	-0.355	-0.413	-0.461	-0.479	-0.485	-0.406	-0.401	-0.274	-0.249	
CONTROL LINE CHAINAGE	0	10	13.893	20	26.706	30	40	50	60	70	73.8	80	89.677	90	100	102.118	

LONGITUDINAL SECTION - AMGROW DAM OVERFLOW DRAIN



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DRAWING TITLE
AMGROW DAM OVERFLOW
DRAIN LONGITUDINAL
SECTION

Issue	Date	Description	LAB	MG
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SCALE IN METRES

HORZ: 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 OPW2 433
Rev. No: B

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DRAWING TITLE

HIGHLANDS STREET CROSS SECTIONS SHEET 1 OF 9

G	1907/22	SEWER LINE UPDATED	LAB	MG	
B	201/21	ISSUED FOR CONSTRUCTION	LAB	MG	
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	3007/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

HORZ:

VERT:

Scale at A1: AS SHOWN

Designed:	IG
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Drafted:	LAB / IG
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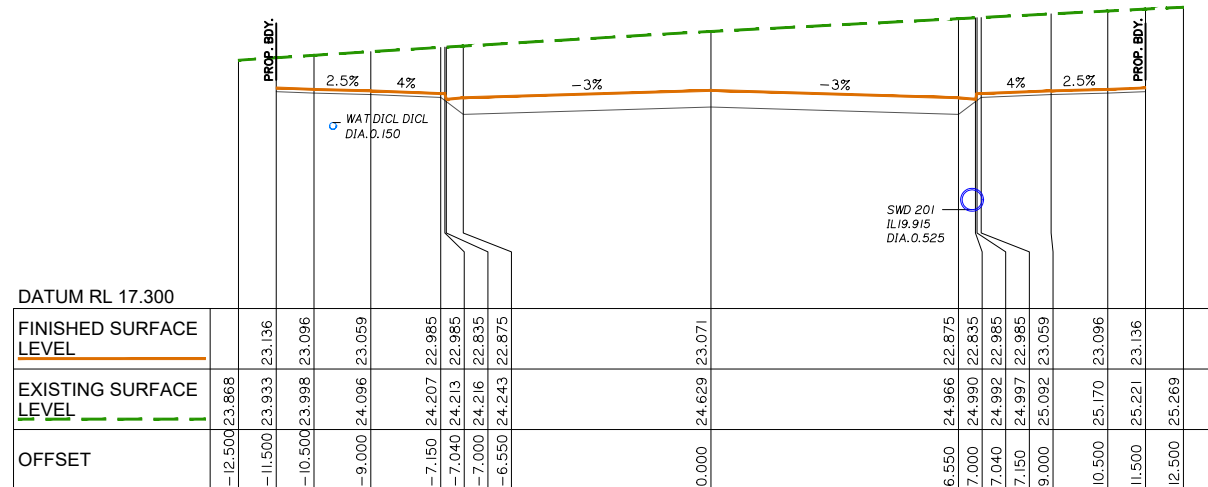
Approved:	MG
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RPEQ:	16939
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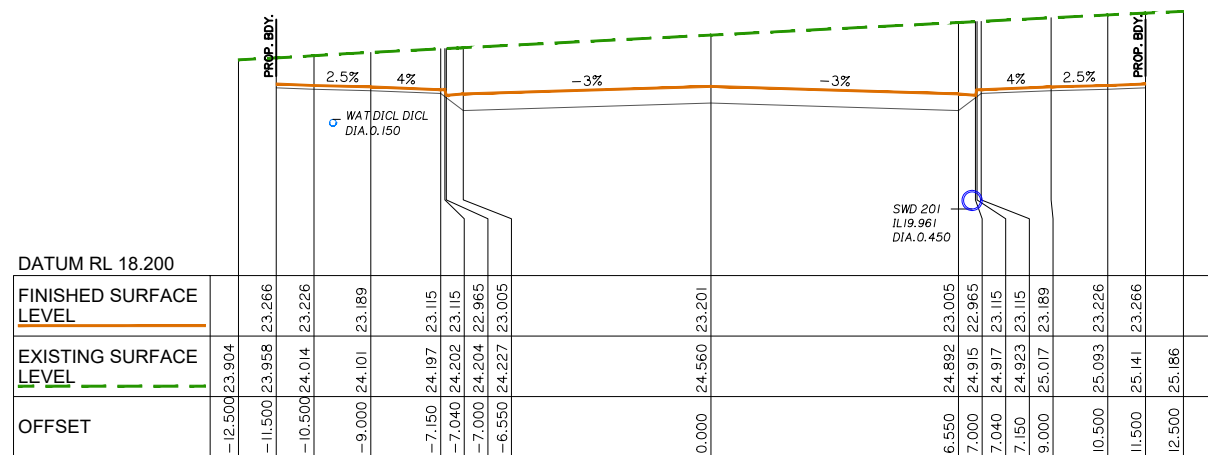
Signed:	
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Date:	05/07/2022
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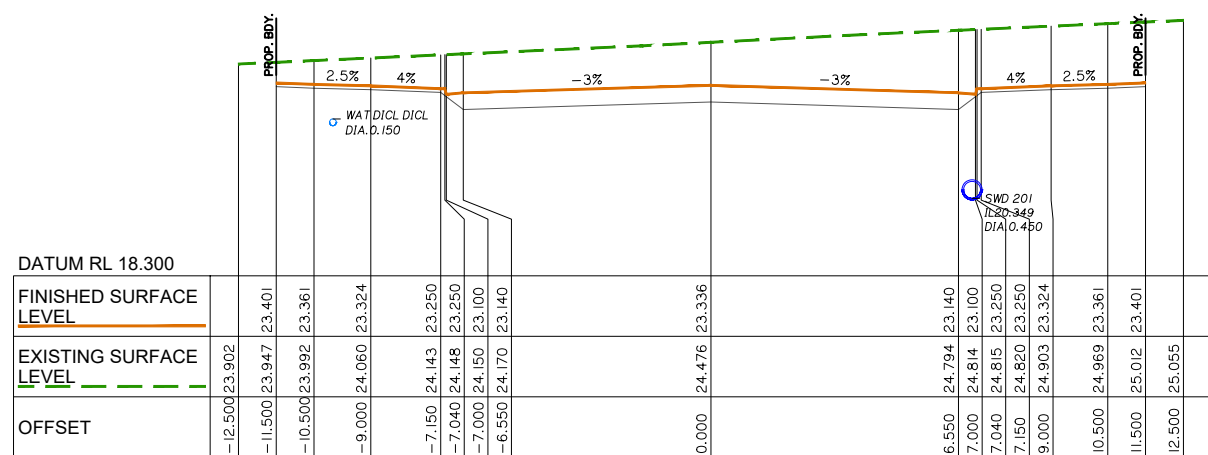
Drawing No:	Rev. No:
5941 ENG OPW2 450	C



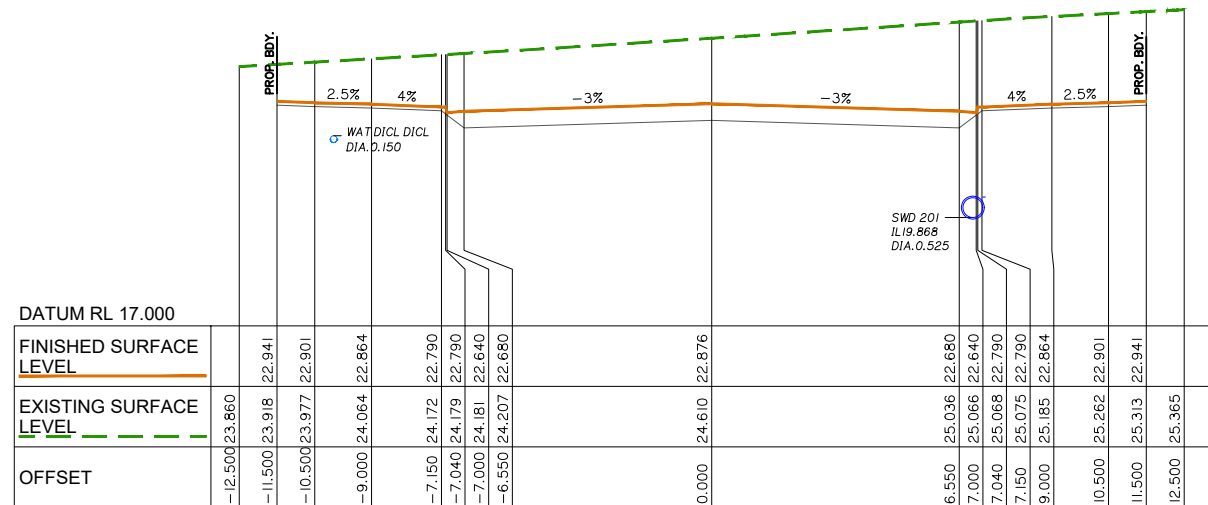
CH 50.000



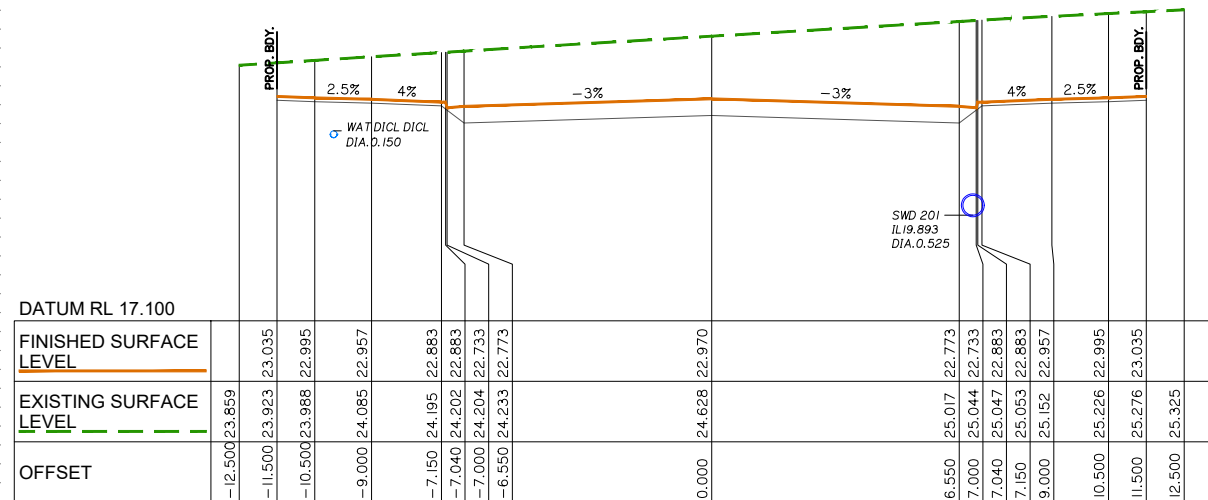
CH 40.000



CH 31.436



CH 70.000



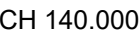
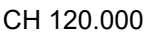
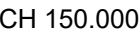
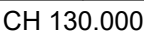
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PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

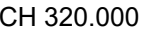
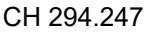
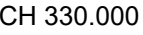
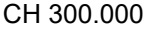
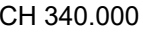
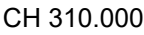
Application No: MIN/2022/341

Dated: 8 September 2022

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

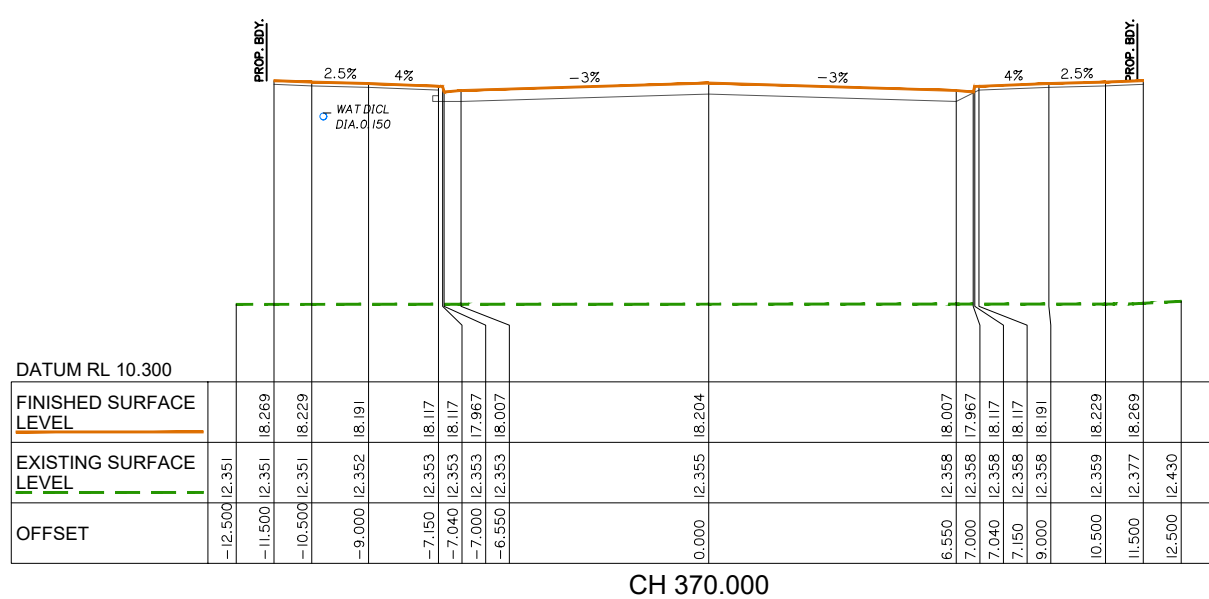
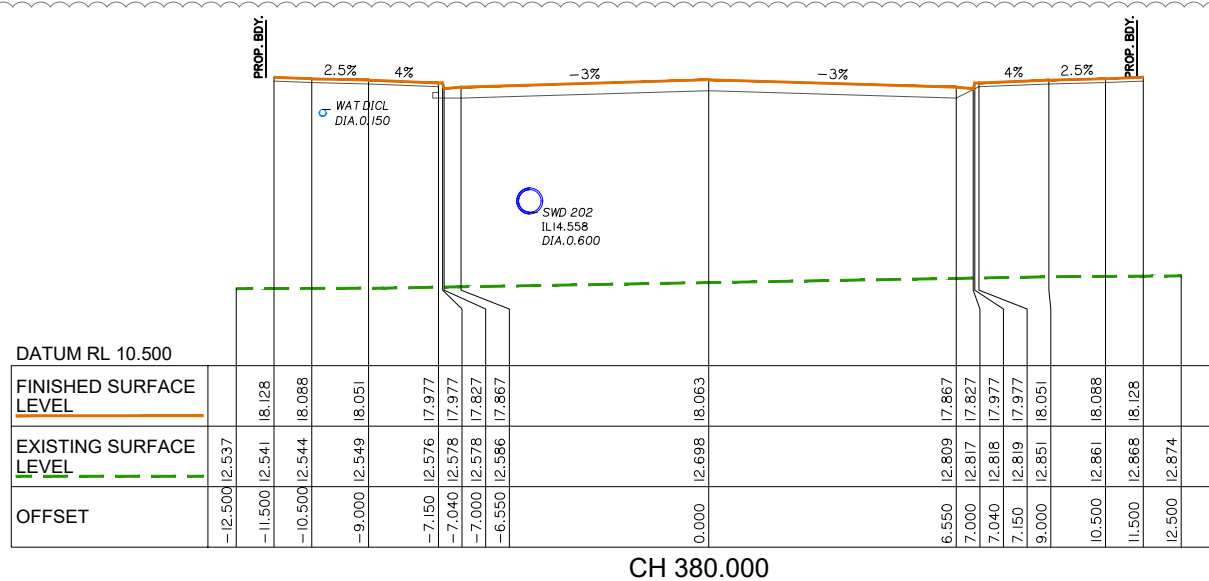
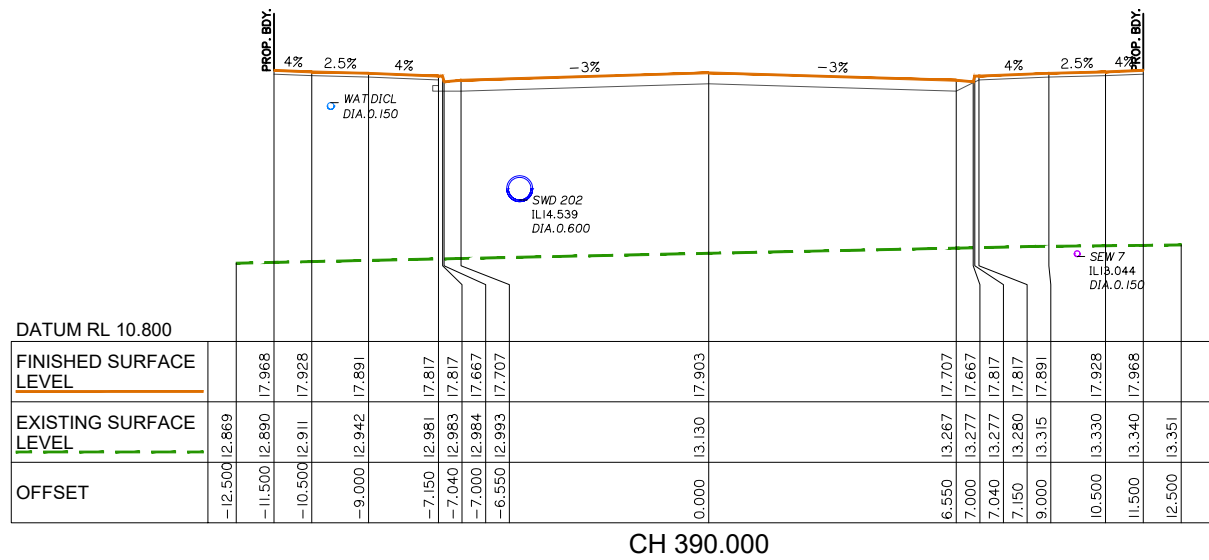
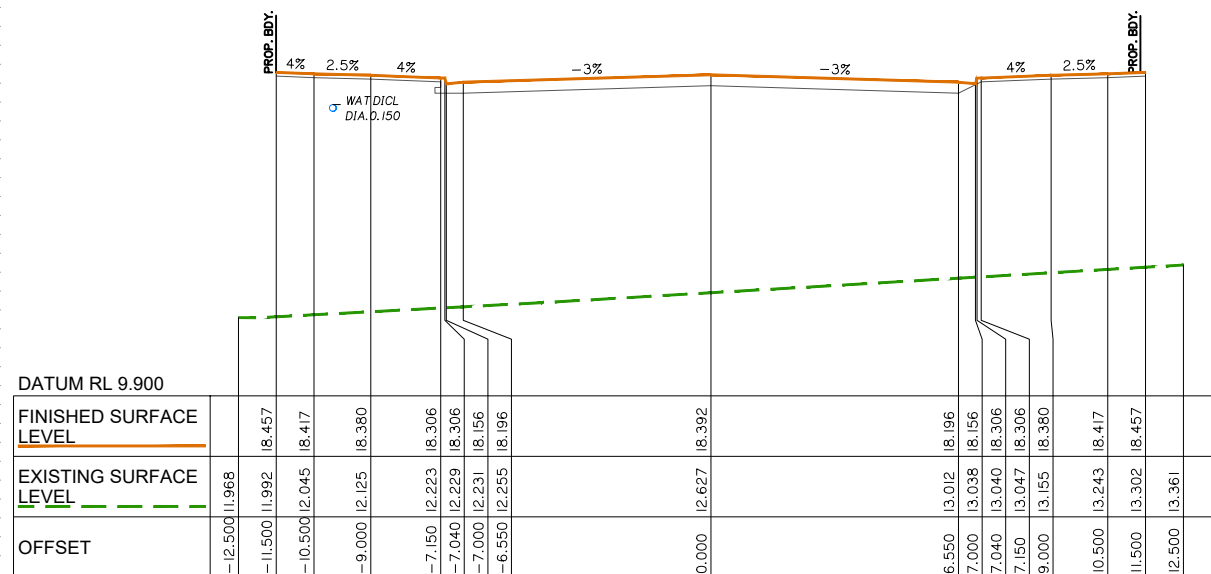
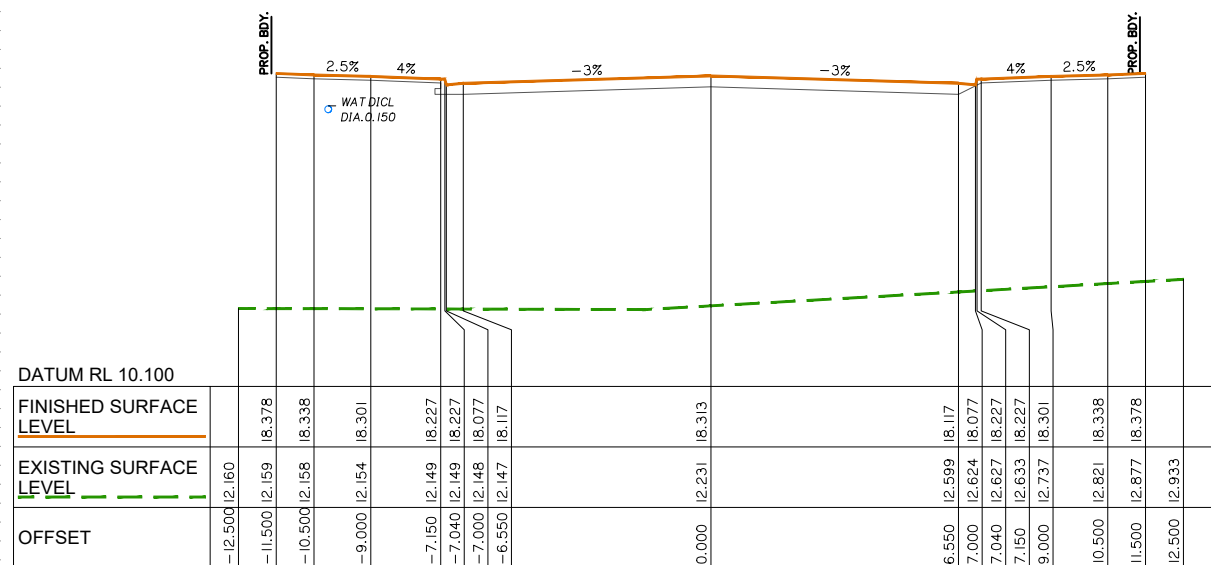


PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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

FAIRWAY STREET CROSS
SECTIONS SHEET 2 OF 4

Rev	Date	Description	LAB	MG
C	19/07/22	SEWER LINE UPDATED	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	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

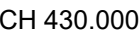
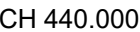
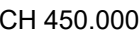
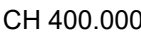
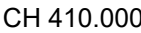
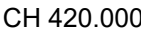


Scale at A1: AS SHOWN

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No: 5941 ENG OPW2 460
Rev. No: C

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



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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, Beenleigh 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
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RPD:

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Plan: SP295994
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COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
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DRAWING TITLE

ROAD INTERSECTION
DETAILS SHEET 1 OF 5

Issue	Date	Description	DRN	CHK
D	19/07/22	LOT NUMBER UPDATED	LAB	MG
C	28/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	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: 05/07/2022

Drawing No: 5941 ENG OPW2 490 Rev. No: D

204

HIGHLANDS STREET

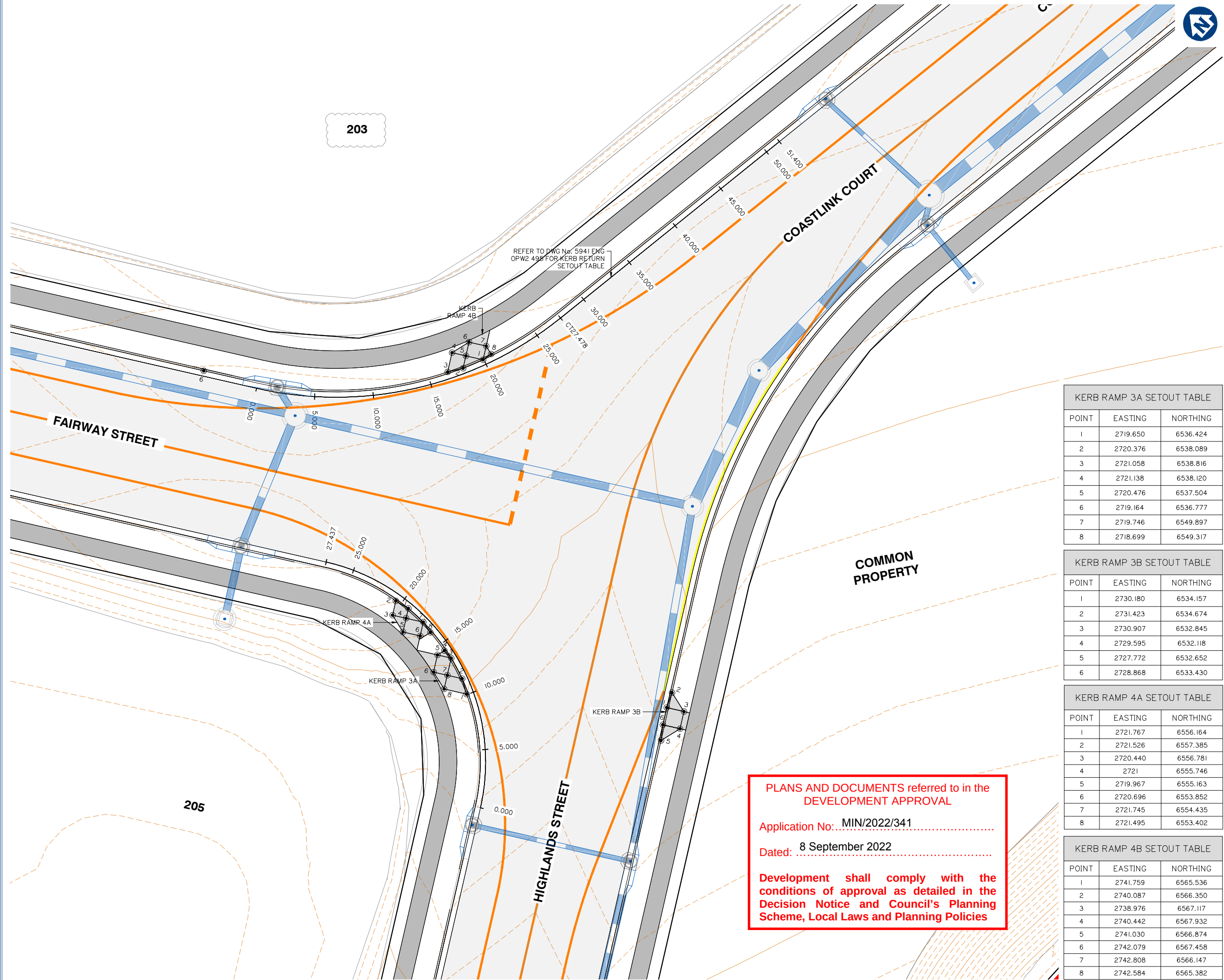
COMMON
PROPERTY

CHRISTENSEN ROAD

ROAD INTERSECTION DETAILS SHEET 1 OF 5



G:\Projects\5941\ENGINEERING\Acad\CIVIL WORKS STAGE 2\Current\5941 ENG OPW2 490-495.dwg



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
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DRAWING TITLE

ROAD INTERSECTION
DETAILS SHEET 3 OF 5

Issue	Date	Description	LAB	MG	CHK
D	19/07/22	LOT NUMBER UPDATED	LAB	MG	
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	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: 05/07/2022

Drawing No:
5941 ENG OPW2 492

Rev. No:
D

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

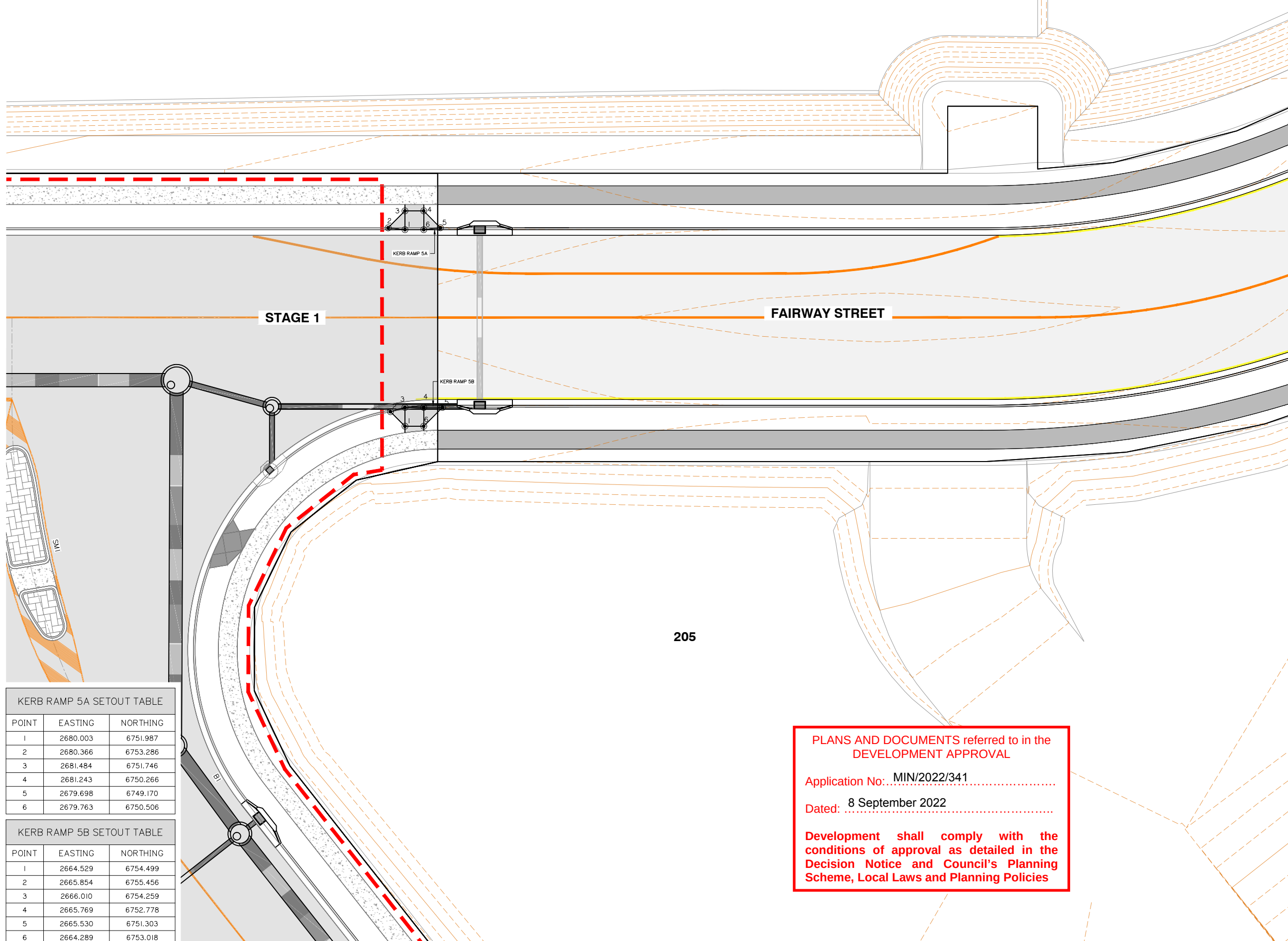
Application No: MIN/2022/341

Dated: 8 September 2022

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



203



KERB RAMP 5A SETOUT TABLE		
POINT	EASTING	NORTHING
1	2680.003	6751.987
2	2680.366	6753.286
3	2681.484	6751.746
4	2681.243	6750.266
5	2679.698	6749.170
6	2679.763	6750.506

KERB RAMP 5B SETOUT TABLE		
POINT	EASTING	NORTHING
1	2664.529	6754.499
2	2665.854	6755.456
3	2666.010	6754.259
4	2665.769	6752.778
5	2665.530	6751.303
6	2664.289	6753.018

205

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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: -
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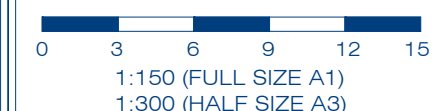
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DRAWING TITLE

ROAD INTERSECTION
DETAILS SHEET 4 OF 5

Issue	Date	Description	LAB	MG
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES



Scale at A1: 1:150

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

Drawing No: 5941 ENG OPW2 493 Rev. No: C

ROAD INTERSECTION DETAILS SHEET 4 OF 5



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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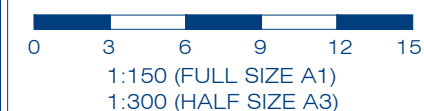
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

ROAD INTERSECTION
DETAILS SHEET 5 OF 5

Issue	Date	Description	LAB	MG	DRN	CHK
D	19/07/22	LOT NUMBER UPDATED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	09/11/21	KERB RAMP LOCATION AMENDED	JH	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		

SCALE IN METRES



Scale at A1: 1:150

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No: 5941 ENG OPW2 494 Rev. No: D

203

REFER TO DWG No. 5941 ENG
OPW2 495 FOR KERB RETURN
SETOUT TABLE

COMMON
PROPERTY

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

Development shall comply with the
conditions of approval as detailed in the
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 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: -

ISSUED FOR APPROVAL
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DRAWING TITLE

ROAD INTERSECTION
SETOUT TABLES

B	26/11/21	ISSUED FOR CONSTRUCTION			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 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 OPW2 495 Rev. No: B

ROAD INTERSECTION SETOUT TABLES



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	2.279
CAT 1 / 232	1.947
CAT 20 / X2	0.062
CAT 21/ X2	0.066
CAT 22 / X2	0.049
CAT 23 / X2	0.052
CAT 1 / 231	4.914
CAT 1 / 233	3.878
CAT 2 / X2	1.927

G:\Projects\5941\ENGINEERING\Acad\CIVIL WORKS STAGE 2\Current\5941 ENG OPW2 500.dwg



Client:



FRASERS PROPERTY
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VANTAGE YATALA STAGE 2

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DRAWING TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 1 OF 14

C	26/06/22	LINE 201 AND 204 UPDATED	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	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

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

VERT: 

Scale at A1:	AS SHOWN
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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 510	C

STRUCTURE NAME	14 /201	15 /201	16 /201	17 /201	18 /201	19 /201	20 /201	21 /201	22 /201	23 /201																																																																																																																																																																																																										
STRUCTURE DESCRIPTION	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CLASS D LID	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CLASS D LID	STD IPWEA ACCESS CHAMBER 1800mm DIA WITH CLASS D LID	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	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	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CLASS D LID	STD IPWEA ACCESS CHAMBER 2100mm DIA WITH CLASS D LID	1350mm DIA OUTLET 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 — 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 <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 PIPE / BOX SIZE (mm) TYPE / CLASS <table><tr><td>1050</td><td>1050</td><td>1050</td><td>1050</td><td>1200</td><td>1200</td><td>1200</td><td>1200</td><td>1200</td><td>1350</td></tr><tr><td>3</td><td>3</td><td>3</td><td>3</td><td>4</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table> PIPE / BOX GRADE (%) PIPE / BOX SLOPE (I in X) <table><tr><td>1.00%</td><td>1.01%</td><td>1.35%</td><td>0.53%</td><td>0.10%</td><td>0.10%</td><td>0.10%</td><td>0.10%</td><td>0.10%</td><td>0.12%</td></tr><tr><td>99.9</td><td>99.5</td><td>74.1</td><td>187.8</td><td>995.1</td><td>998.5</td><td>1009.1</td><td>962.5</td><td>819.1</td><td></td></tr></table> PIPE / BOX FLOW (cumecs) (39% AEP) CAPACITY FLOW (cumecs) <table><tr><td>1.682</td><td>2.148</td><td>2.291</td><td>2.282</td><td>2.303</td><td>2.281</td><td>2.800</td><td>2.790</td><td>2.993</td><td></td></tr><tr><td>2.961</td><td>2.968</td><td>3.439</td><td>2.159</td><td>1.340</td><td>1.337</td><td>1.330</td><td>1.362</td><td>2.029</td><td></td></tr></table> PIPE / BOX FLOW VELOCITY (m/s) CAPACITY FLOW VELOCITY (m/s) <table><tr><td>1.94</td><td>2.48</td><td>2.65</td><td>2.64</td><td>2.04</td><td>2.02</td><td>2.48</td><td>2.47</td><td>2.09</td><td></td></tr><tr><td>3.53</td><td>3.73</td><td>4.25</td><td>2.82</td><td>2.04</td><td>2.02</td><td>2.48</td><td>2.47</td><td>2.09</td><td></td></tr></table> DATUM RL 4.000 HGL ELEVATION (39% AEP) <table><tr><td>14.160</td><td>14.012</td><td>13.635</td><td>12.823</td><td>12.469</td><td>12.343</td><td>12.189</td><td>12.042</td><td>11.759</td><td></td></tr><tr><td>14.121</td><td>14.025</td><td>13.719</td><td>12.748</td><td>12.461</td><td>12.299</td><td>12.106</td><td>11.867</td><td>11.704</td><td>11.696</td></tr></table> DEPTH TO INVERT <table><tr><td>3.258</td><td>3.134</td><td>3.544</td><td>2.770</td><td>1.834</td><td>2.025</td><td>2.091</td><td>2.080</td><td>2.067</td><td>1.350</td></tr><tr><td>3.308</td><td>3.224</td><td>3.719</td><td>2.898</td><td>1.985</td><td>2.045</td><td>2.111</td><td>2.130</td><td>2.117</td><td>1.350</td></tr></table> INVERT LEVEL OF DRAIN <table><tr><td>12.898</td><td>12.508</td><td>12.354</td><td>11.543</td><td>11.165</td><td>10.974</td><td>10.916</td><td>10.882</td><td>10.824</td><td>10.770</td></tr><tr><td>12.848</td><td>12.418</td><td>12.179</td><td>11.415</td><td>11.014</td><td>10.954</td><td>10.896</td><td>10.832</td><td>10.774</td><td>10.770</td></tr></table> FINISHED SURFACE LEVEL <table><tr><td>16.156</td><td>15.642</td><td>15.898</td><td>14.313</td><td>12.999</td><td>12.999</td><td>13.007</td><td>12.962</td><td>12.891</td><td>12.120</td></tr></table> SETOUT COORDINATES <table><tr><td>2810.639 E 6541.295 N</td><td>2846.245 E 6535.514 N</td><td>2847.199 E 6527.254 N</td><td>2895.636 E 6519.442 N</td><td>2944.072 E 6511.630 N</td><td>2985.425 E 6504.865 N</td><td>3024.942 E 6498.400 N</td><td>3040.958 E 6495.797 N</td><td>3049.108 E 6501.239 N</td><td>3049.796 E 6505.513 N</td></tr></table> CHAINAGES <table><tr><td>515.435</td><td>551.507</td><td>559.822</td><td>608.885</td><td>657.946</td><td>699.849</td><td>739.892</td><td>756.118</td><td>765.918</td><td>770.247</td></tr><tr><td>33.972</td><td>6.365</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>47.113</td><td>46.962</td><td>39.803</td><td>37.942</td><td>14.127</td><td>7.700</td><td>3.276</td></tr></table>	SHAFT	OFFSET	1200	475	1350	550	1500	625	1800	775	2100	925	1050	1050	1050	1050	1200	1200	1200	1200	1200	1350	3	3	3	3	4	3	3	3	3	3	1.00%	1.01%	1.35%	0.53%	0.10%	0.10%	0.10%	0.10%	0.10%	0.12%	99.9	99.5	74.1	187.8	995.1	998.5	1009.1	962.5	819.1		1.682	2.148	2.291	2.282	2.303	2.281	2.800	2.790	2.993		2.961	2.968	3.439	2.159	1.340	1.337	1.330	1.362	2.029		1.94	2.48	2.65	2.64	2.04	2.02	2.48	2.47	2.09		3.53	3.73	4.25	2.82	2.04	2.02	2.48	2.47	2.09		14.160	14.012	13.635	12.823	12.469	12.343	12.189	12.042	11.759		14.121	14.025	13.719	12.748	12.461	12.299	12.106	11.867	11.704	11.696	3.258	3.134	3.544	2.770	1.834	2.025	2.091	2.080	2.067	1.350	3.308	3.224	3.719	2.898	1.985	2.045	2.111	2.130	2.117	1.350	12.898	12.508	12.354	11.543	11.165	10.974	10.916	10.882	10.824	10.770	12.848	12.418	12.179	11.415	11.014	10.954	10.896	10.832	10.774	10.770	16.156	15.642	15.898	14.313	12.999	12.999	13.007	12.962	12.891	12.120	2810.639 E 6541.295 N	2846.245 E 6535.514 N	2847.199 E 6527.254 N	2895.636 E 6519.442 N	2944.072 E 6511.630 N	2985.425 E 6504.865 N	3024.942 E 6498.400 N	3040.958 E 6495.797 N	3049.108 E 6501.239 N	3049.796 E 6505.513 N	515.435	551.507	559.822	608.885	657.946	699.849	739.892	756.118	765.918	770.247	33.972	6.365												47.113	46.962	39.803	37.942	14.127	7.700	3.276	PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL Application No...MIN/2022/341 Dated: 8 September 2022 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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— PROVIDE BRIDGING SLAB UNDER
STORMWATER PIPE ($\geq \phi 600$).
REFER DWG 5941 ENG OPW2 412

SHAFT / PIT BASE

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

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% AEP)
CAPACITY FLOW (cumecs)
PIPE / BOX FLOW VELOCITY (m/s)
CAPACITY FLOW VELOCITY (m/s)

HGL ELEVATION (39% AEP)

DEPTH TO INVERT

INVERT LEVEL OF DRAIN

FINISHED SURFACE LEVEL

SETOUT COORDINATES

CHAINAGES

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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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Gold Coast & Logan | 70 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

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

SCALE IN METRES

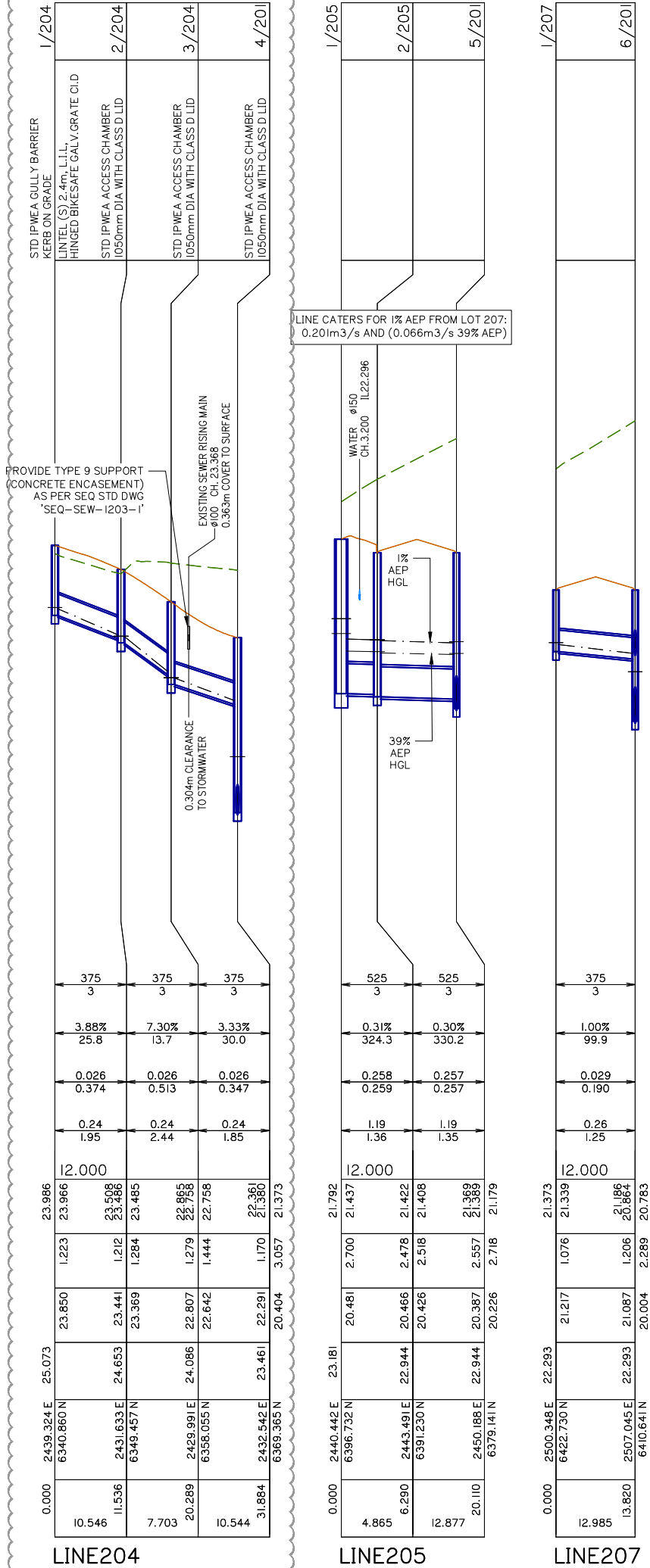
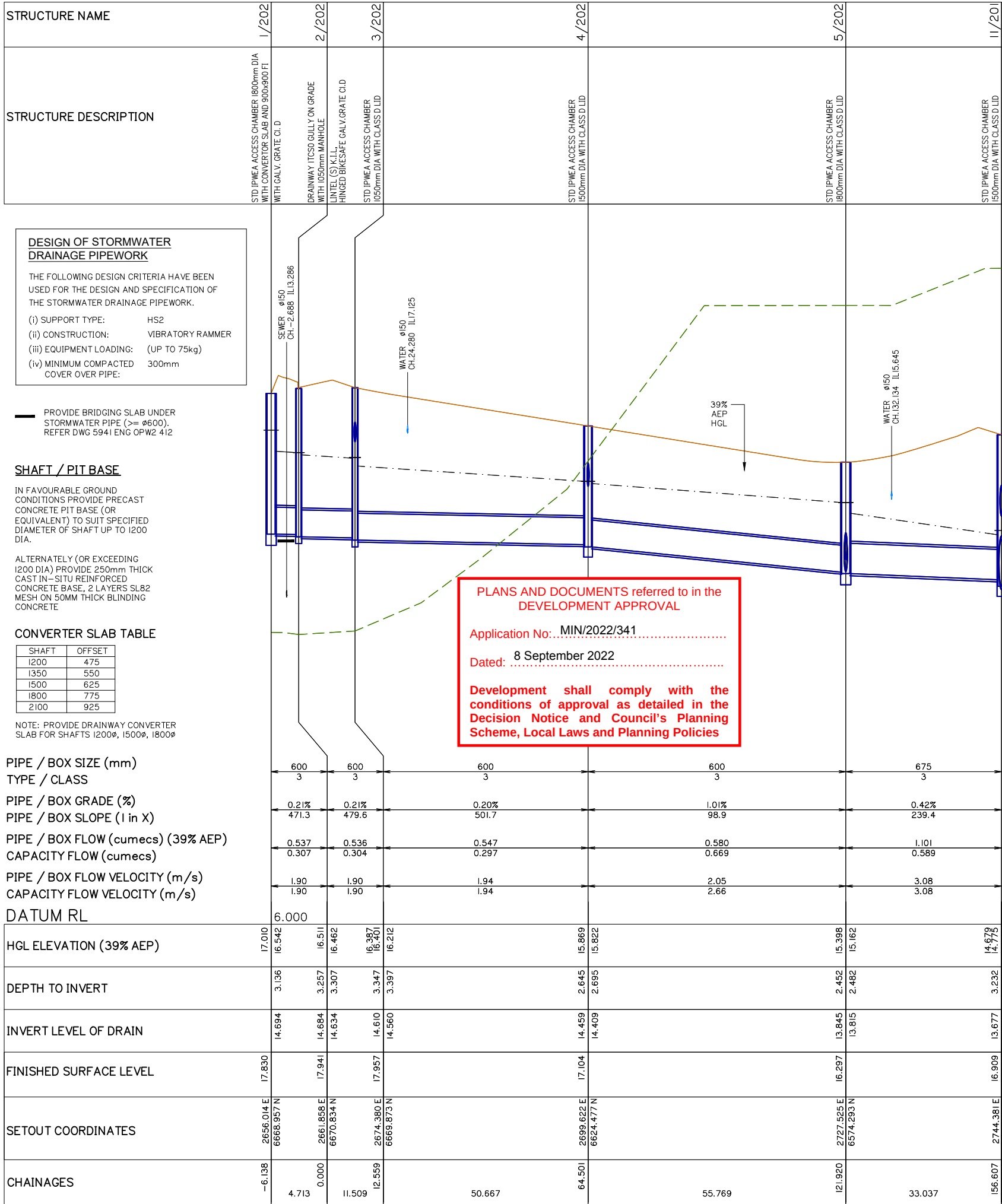
VERT: 

Scale at A1: AS SHOWN

Designed:	IG
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Signed:	
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5941 ENG OPW2 512

Rev. No:
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:

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

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 4 OF 14

Issue	Date	Description	DRN	CHK
C	26/06/22	LINE 201 AND 204 UPDATED	JH	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES

Scale 1:500 - Lengths are in Metres.

HORIZ: 0 5 10 15 20 25 30 35 40

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 OPW2 513

Rev. No: C

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

STRUCTURE NAME	1/223
STRUCTURE DESCRIPTION	STD IPWEA ACCESS CHAMBER 1200mm DIA WITH CONVERTOR SLAB AND 900x900 CI D
	2/223
	STD IPWEA ACCESS CHAMBER 1200mm DIA WITH CONVERTOR SLAB AND 900x900 CI D
	13/201
	STD IPWEA ACCESS CHAMBER 1200mm DIA WITH CONVERTOR SLAB AND 900x900 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 ($\geq \phi 600$). 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

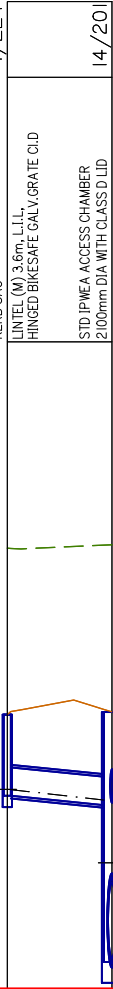
NOTE: PROVIDE DRAINWAY CONVERTER SLAB FOR SHAFTS 1200 ϕ , 1500 ϕ , 1800 ϕ

PIPE / BOX SIZE (mm)
TYPE / CLASS
PIPE / BOX GRADE (%)
PIPE / BOX SLOPE (1 in X)
PIPE / BOX FLOW (cumecs) (39% AEP)
CAPACITY FLOW (cumecs)
PIPE / BOX FLOW VELOCITY (m/s)
CAPACITY FLOW VELOCITY (m/s)

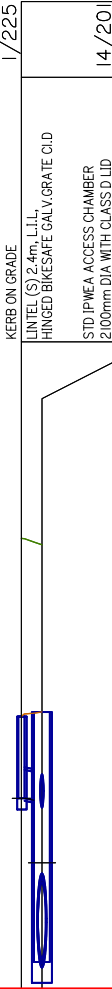
DATUM RL

HGL ELEVATION (39% AEP)	15.531	15.382	15.277	15.193	15.105	14.261
DEPTH TO INVERT	1.574	1.306	1.421	1.508	3.331	
INVERT LEVEL OF DRAIN	15.187	15.124	15.009	14.983	13.160	
FINISHED SURFACE LEVEL	16.761	16.430		16.491		
SETOUT COORDINATES	2774.537 E 6538.848 N	2775.545 E 6545.057 N		2777.552 E 6546.666 N		
CHAINAGES	0.000	6.290	1.246	9.003		

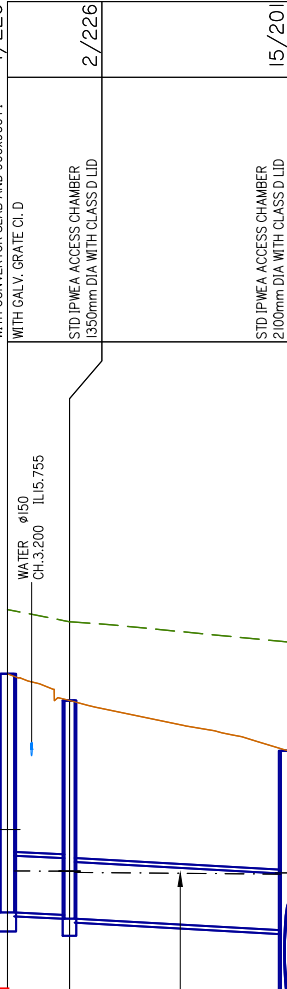
LINE223



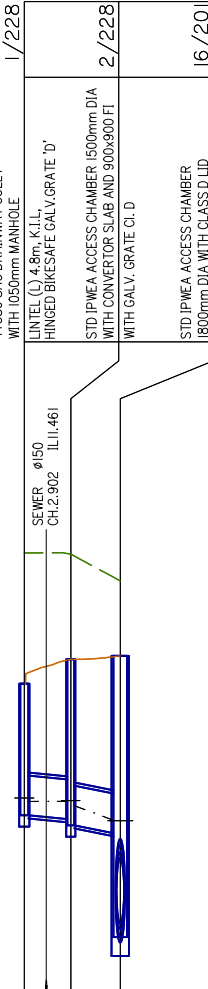
LINE224



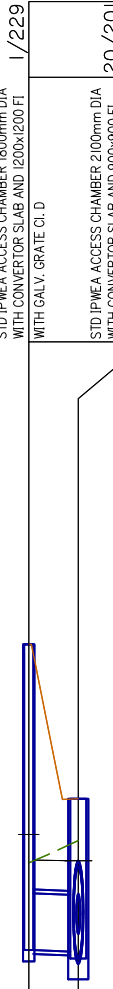
LINE225



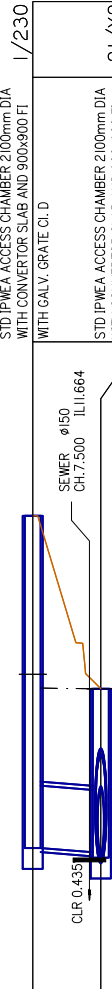
LINE226



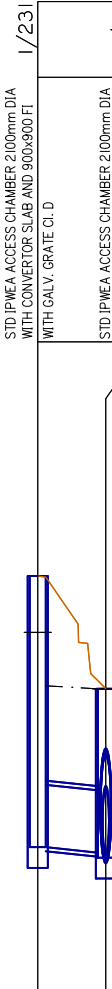
LINE228



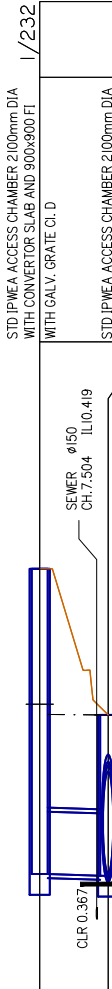
LINE229



LINE230



LINE231



LINE232

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: MIN/2022/341

Dated: 8 September 2022

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

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 6 OF 14



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

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

STORMWATER DRAINAGE LONGITUDINAL SECTIONS SHEET 6 OF 14

C	19/07/22	STORMWATER UPDATES	JH	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	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 1:500 - Lengths are in Metres.

HORIZ: 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 OPW2 515

Rev. No:
C

LINEX2

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
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PSM: -
RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 9 OF 14

C	19/07/22	STORMWATER UPDATES	JH	MC	
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MC	
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MC	
A	30/07/21	ORIGINAL ISSUE	LAB	MC	
Issue	Date	Description	DRN	CH	

SCALE IN METRES

Scale 1:500 - Lengths are in Metres

HORZ: 

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

VERT.

Scale at A1: AS SHOWN

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

Drafted:	LAB / IG
----------	----------

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

RPEQ:	16939
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Signed:

Date: 10/09/20

Drawing No: _____ Rev. No: _____

5941 ENG OPW2 518

Rev. No:

C

LINEX2

STORMWATER LONGITUDINAL SECTIONS SHEET 10 OF 14

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

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 10 OF 14

C	19/07/22	STORMWATER UPDATES	JH	MC	
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MC	
B	10/08/21	INFORMATION REQUEST RESPONSE	LAB	MC	
A	30/07/21	ORIGINAL ISSUE	LAB	MC	
Issue	Date	Description	DRN	CH	

SCALE IN METRES

Scale 1:500 - Lengths are in Metres

HORZ:

VERT: 

Scale at A1: AS SHOWN

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

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 519

Rev. No:
C

STRUCTURE NAME

STRUCTURE DESCRIPTION

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 ($\geq \phi 600$). 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 1200 ϕ , 1500 ϕ , 1800 ϕ

PIPE / BOX SIZE (mm)

TYPE / CLASS

PIPE / BOX GRADE (%)

PIPE / BOX SLOPE (1 in X)

PIPE / BOX FLOW (cumecs) (39% AEP)

CAPACITY FLOW (cumecs)

PIPE / BOX FLOW VELOCITY (m/s)

CAPACITY FLOW VELOCITY (m/s)

DATUM RL

HGL ELEVATION (39% AEP)

DEPTH TO INVERT

INVERT LEVEL OF DRAIN

FINISHED SURFACE LEVEL

SETOUT COORDINATES

CHAINAGES

20 / X2
STD IPWEA ACCESS CHAMBER 2100mm DIA
WITH CONVERTOR SLAB AND 900x900 FI
WITH GALV GRATE CI D

21 / X2
STD IPWEA ACCESS CHAMBER 2100mm DIA
WITH CONVERTOR SLAB AND 900x900 FI
WITH GALV GRATE CI D

22 / X2
STD IPWEA ACCESS CHAMBER 2100mm DIA
WITH CONVERTOR SLAB AND 900x900 FI
WITH GALV GRATE CI D

23 / X2
STD IPWEA ACCESS CHAMBER 2100mm DIA
WITH CONVERTOR SLAB AND 900x900 FI
WITH GALV GRATE CI D

39%
AEP
HGL

SEWER $\phi 150$
CH 859.943 TL11.073
CLR 0.707

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: MIN/2022/341

Dated: 8 September 2022

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

1350

RCP

1.00%

100.0

3.106

5.785

2.17

4.11

1350

RCP

0.80%

125.0

4.659

5.174

3.26

4.09

1350

RCP

0.70%

142.9

4.624

4.840

3.23

3.85

3.000

14.825

14.771

2.169

2.189

13.340

13.320

15.509

2796.143 E

6792.225 N

722.135

106.990

14.463

14.239

2.213

2.233

12.250

12.230

14.463

2903.824 E

6774.744 N

831.225

80.789

13.727

13.614

2.191

2.211

11.583

11.563

13.774

2985.641 E

6761.461 N

914.113

77.797

13.117

13.080

2.098

2.118

11.019

10.999

13.117

3064.505 E

6748.659 N

994.010

LINEX2

STORMWATER LONGITUDINAL SECTIONS SHEET 11 OF 14



planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 176 Business Street, Yatala QLD | PO Box 392, Beenleigh 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
STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 11 OF 14

C	19/07/22	STORMWATER UPDATES	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	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 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 OPW2 520

Rev. No: C

LINE 292

STORMWATER LONGITUDINAL SECTIONS SHEET 13 OF 14

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

STORMWATER DRAINAGE
LONGITUDINAL SECTIONS
SHEET 13 OF 14

B	26/11/21	ISSUED FOR CONSTRUCTION			LAB MC
B	10/09/21	INFORMATION REQUEST RESPONSE			LAB MC
A	30/07/21	ORIGINAL ISSUE			LAB MC
Issue	Date	Description			CHN

SCALE IN METRES

Scale 1:500 - Lengths are in Metres

HORZ: 

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

Age Group	Number of People
18-24	0.5
25-34	1.0
35-44	1.5
45-54	2.0
55-64	2.5
65-74	3.0
75-84	3.5
85+	3.5

Scale at A1: AS SHOWN

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

Drafted:	LAB / IG
----------	----------

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

RPEQ:	169.39
-------	--------

Signed:	
---------	---

Date:	10/09/20
-------	----------

Drawing No: Rev. No:

5941 ENG OPW2 522

Rev. No:

B

STRUCTURE NAME	293 / 1	293 / 2	293 / 3		293 / 4	293 / 5	293 / 6	294 / 1	294 / 2												
STRUCTURE DESCRIPTION	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	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	PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL Application No: MIN/2022/341 Dated: 8 September 2022 Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies																				
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	300		300	450	(3x)450														
TYPE / CLASS	uPVC SN8	uPVC SN8	uPVC SN8		uPVC SN8	3	3														
PIPE / BOX GRADE (%)	0.40%	0.40%	0.30%		0.30%	1.13%	1.15%														
PIPE / BOX SLOPE (I in X)	250.0	250.0	333.3		333.3	88.6	87.3														
PIPE / BOX FLOW (cumecs) (39% AEP)	0.000	0.000	0.053		0.106	0.265	0.211														
CAPACITY FLOW (cumecs)	0.028	0.028	0.053		0.053	0.303	0.916														
PIPE / BOX FLOW VELOCITY (m/s)	0.00	0.00	0.75		1.50	1.67	0.44														
CAPACITY FLOW VELOCITY (m/s)	0.00	0.00	0.85		1.50	2.15	1.56														
DATUM RL	0.000						0.000														
HGL ELEVATION (39% AEP)	10.267	10.267	10.205		9.972	9.440	9.484	9.185	9.034												
DEPTH TO INVERT	1.299	1.340	1.949		2.182	2.202	0.820	0.820	0.750												
INVERT LEVEL OF DRAIN	9.171	9.130	8.821		8.568	8.568	8.471	8.411	8.214												
FINISHED SURFACE LEVEL	10.470	10.470	10.470		10.470	10.470	10.470	8.214	11.000												
SETOUT COORDINATES	3044.928 E 6523.049 N	3055.018 E 6521.415 N	3066.487 E 6592.557 N		3078.695 E 6669.179 N	3084.035 E 6701.233 N	3101.261 E 6698.455 N	3098.220 E 6718.469 N	3092.187 E 6719.443 N												
CHAINAGES	0.000	10.221	82.282		159.901	32.464	17.449	209.814	6.111												

[illegible]

Project: VANTAGE YATALA
STAGE 2

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

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RPD:

Lot:	501
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Meridian:	-
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
STORMWATER DRAINAGE
CALCULATION TABLES
SHEET 1 OF 6

C	19/07/22	CALC TABLE UPDATED	JH
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB
A	30/07/21	ORIGINAL ISSUE	LAB
Sue	Date	Description	DRN

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: 5941 ENG OPW2 550 Rev. No: C

[illegible]Rev. No
C

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	10Y RUNOFF CO-EFFICIENT	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUM OF (C*A)	SUB-CATCHMENT DISCHARGE	FLOW IN M3/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 R/C INVERT 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	Ku	hu	hl	Kw	hw	sF	HF		vP					m	m	m	m	m	m																								
2	100	1/EXT2	1/EXT2 to 2/EXT2			5	138	0.73	0.73	0.015	0.015	0.015	16	16	0		1200x1200 FI	16	0		5	138	0.042	157		48	16	9.64	1	450	0.1	0.016	1/EXT2	G1	0.001	4.78	0.002			0.002	0	0	0.07	1.0	4.693	4.596	5.595	5.595	5.598	7.984	1/EXT2																											
2	100	2/EXT2	2/EXT2 to 3/EXT2			5	138	0.73	0.73	0.107	0.079	0.079	30	30	0		GRADE_BK_4800_Up	30	0		5.16	137	0.121	184		40	46	27.64	0.66	675	0.1	0.06	2/EXT2	G1/T1/T2	0.001	2.68	0.002			0.002	0	0.001	0.114	1.2	4.399	4.216	5.593	5.592	5.595	6.767	2/EXT2																											
2	100	3/EXT2	3/EXT2 to 4/EXT2			5	138	0.73	0.73	0.135	0.099	0.099	38	59	0		GRADE_BK_4800_Up	59	0		5.56	135	0.22	209		35	103	12.57	0.15	750	0.2	0.048	3/EXT2	G1/T4/T8	0.003	2.43	0.007			2.48	0.007	0.01	0.001	0.24	0.9	4.153	4.134	5.585	5.584	5.592	6.686	3/EXT2																										
2	100	4/EXT2	4/EXT2 to 2/100			5	307		1	0.019	0.019	0.019	16	16	0		ACC_CHA_1800				5.88	134	0.511	16		16	210	25.12	0.1	1050	0.2	0.1	4/EXT2	T2/T4	0.003	0.3	0.001			0.001	0.01	0.001	0.338	0.9	4.094	4.069	5.583	5.582	5.584	7.181	4/EXT2																											
2	100	1/EXT3	1/EXT3 to 2/EXT3			5	138	0.73	0.73	0.154	0.113	0.113	43	43	0		GRADE_BK_4800_Up	42	1	3/EXT3	5	138	0.113	0		42	12.57	4	375	0.4	0.08	1/EXT3	G1	0.007	7	0.052			0.052	4.5	0.36	0.084	2.3	7.553	7.05	7.7	7.134	7.752	9.662	1/EXT3																												
2	100	2/EXT3	2/EXT3 to 3/EXT3			5	0			0	0	0	0	696	0		ACC_CHA_1050				5.09	138	0.127	0		696	47	12.57	2	375	0.4	0.09	2/EXT3	T8/T10	0.009	1.73	0.016			2	0.019	2.26	0.232	0.106	1.8	6.614	6.363	6.771	6.487	6.789	9.341	2/EXT3																										
2	100	3/EXT3	3/EXT3 to 4/EXT3			5	138	0.73	0.73	0.015	0.011	0.011	4	6	0		GRADE_BK_2400_Up	6	0	4/EXT3	5.21	137	0.138	0		53	23.26	1.5	375	0.5	0.186	3/EXT3	T1	0.012	0.7	0.008			0.008	1.56	0.347	0.121	1.7	6.313	5.964	6.479	6.117	6.487	9.026	3/EXT3																												
2	100	4/EXT3	4/EXT3 to 5/EXT3			5	138	0.73	0.73	0.034	0.025	0.025	10	10	0		GRADE_BK_2400_Up	10	0	5/EXT3	5.43	136	0.163	0		62	19.95	2	375	0.6	0.186	4/EXT3	T1/T2	0.016	0.92	0.015			0.015	2.29	0.328	0.122	2.0	5.922	5.523	6.102	5.645	6.117	8.537	4/EXT3																												
2	100	5/EXT3	5/EXT3 to 2/100			5	138	0.73	0.73	0.031	0.023	0.023	9	9	0		GRADE_BK_2400_Up	9	0	2/100	5.6	135	0.187	0		70	44.29	2	450	0.4	0.325	5/EXT3	T1	0.01	0.14	0.001			0.001	0.05	0.082	0.122	2.0	5.423	4.537	5.605	5.582	5.607	8.125	5/EXT3																												
2	100	1/EXT4	1/EXT4 to 2/EXT3			5	138	0.73	0.73	0.019	0.014	0.014	5	5	0		900x900 FI	5	0		5	138	0.014	0		5	2.968	2	375	0.1	0.002	1/EXT4	G1	0	7	0.001			0.001	2.49	0.044	0.037	1.0	7.792	7.732	7.843	7.769	7.844	9.186	1/EXT4																												
2	100	1/TMR1	1/TMR1 to 2/TMR1			0	0			0	0	0	0	0	0		DM				1	194	0	0		0	7.1	1.01	1500	0.0	0	1/TMR1		0	2	0			0	1.01	0.072	0	0.0	3.262	3.19	3.262	3.19	3.262	5.649	1/TMR1																												
2	100	2/TMR1															HW outlet auto				2.57	368	0	0																								3.19	5.171	2/TMR1																												
2	100	1/TMR2	1/TMR2 to 2/TMR2														DM				1	194	0	0		0	7.065	516.5	1500	0.0	0	1/TMR2		0	2	0			0	516.5	36.49	0	0.0	3.527	-32.97	3.527	-32.97	3.527	5.027	1/TMR2																												
2	100	2/TMR2															HW outlet auto				5.01	307	3.708	3162																											-32.97	-31.47	2/TMR2																									
2	100	1/TMR3	1/TMR3 to 2/TMR3														DM				1	194	0			0	2.438	0.29	450	0.0	0	1/TMR3		0	2	0			0	0.29	0.007	0	0.0	1.832	1.825	1.832	1.825	1.832	2.282	1/TMR3																												
2	100	2/TMR3																			4.105	3444																														1.825	2.275	2/TMR3																								
2	100	1/X2	1/X2 to 2/X2																		0	4.314	3571			386	1.598	0.19	750	0.9	0.023	1/X2		0.039	2	0.078			0.078	0.1	0.002	0.48	1.3	17.52	17.52	19.03	19.03	19.11	19.83	1/X2																												
2	100	2/X2	2/X2 to 3/X2			5	138	0.73	0.73	1.822	1.344	1.344	515	12	0						1.344	1597	2.627	0.23	750	3.6	0.158	2/X2		0	0	2/X2		0	0	0			0	0	0	0.75	3.6	17.5	17.49	19.03	19.03	19.03	18.86	2/X2																												
2	100	3/X2	3/X2 to 4/X2																		1.344	1597	102.5	0.2	750	3.6	6.166	3/X2		0	0	3/X2		0	0	0			0	0	0	0.75	3.6	17.43	17.22	19.03	19.03	19.03	20.1	3/X2																												
2	100	4/X2	4/X2 to 5/X2																		1.344	1589	49.46	0.2	750	3.6	2.967	4/X2		0	0	4/X																																														

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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	10Y RUNOFF CO-EFFICIENT	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUM OF (C*A)	SUB-CATCHMENT DISCHARGE	FLOW IN 8% (INC. BYPASS)	ROAD GRADE AT INLET	MINOR FLOW ROAD CAPACITY	INLET TYPE	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE No.	CRITICAL TIME OF CONCENTRATION	I	+CA	Qt	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 R&C INVERT 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	M	M/S	M	M	M	M	M	M	M								
2	100	10a/X2	10a/X2 to 10/X2			5	307	0.73	1	0.107	0.106	0.106	90	992			ACC_CHA_1500				6.46	131	3.831				2476	12.07	0.5	900	3	3.9	0.782	10a/X2		0	0	0			0	0	0	0	0.9	3.9	16.4	16.34	19.03	19.03	19.03	19.45	10a/X2							
2	100	1/EX1	1/EX1 to 2/EX1			5	307		1	0.135	0.133	0.133	113	132			ACC_CHA_1050				5.16	194	0				132	0	11.68	0.51	300	3	0.0	0	1/EX1		0	0	0			0	0.51	0.059	0	0.0	20.95	20.89	20.95	20.89	20.95	21.93	1/EX1							
2	100	2/EX1	2/EX1 to 1/X2														ACC_CHA_1050				1.11	190	0				0	54.63	3.71	300	3	0.0	0	2/EX1		0	0	0			0	3.23	1.764	0	0.0	20.87	18.85	20.87	19.11	20.87	22.2	2/EX1								
2	100	1/X2	1/X2 to 2/X2			5	307		1	0.072	0.072	0.072	61	69			DM				1.57	175	0				69	386	1.598	0.19	750	3	0.9	0.023	1/X2		0.039	2	0.078			0.078	0.1	0.002	0.48	1.3	17.52	17.52	19.03	19.03	19.11	19.83	1/X2							
2	100	1/EX2	1/EX2 to 2/EX1			5	307		1	0.154	0.152	0.152	129	129			ACC_CHA_1050				1	194	0				129	0	13.43	0.51	300	3	0.0	0	1/EX2		0	0	0			0	0.51	0.068	0	0.0	21.02	20.95	21.02	20.95	21.02	21.96	1/EX2							
2	100	2/EX1	2/EX1 to 1/X2														ACC_CHA_1050				1.11	190	0				0	54.63	3.71	300	3	0.0	0	2/EX1		0	0	0			0	3.23	1.764	0	0.0	20.87	18.85	20.87	19.11	20.87	22.2	2/EX1								
2	100	1/EXT1	1/EXT1 to 2/EXT1			5	307	0.73	0.73	0.383	0.283	0.283	108	108			GRADE_BK_4800_Lip	108	0		5	138	0.283				48	108	21.61	1	600	3	0.4	0.137	1/EXT1	G1	0.007	7	0.052			0.052	0.03	0.006	0.164	1.7	4.801	4.585	5.608	5.603	5.661	6.903	1/EXT1							
2	100	2/EXT1	2/EXT1 to 3/EXT1			5	307	0.73	0.73	0.004	0.003	0.003	1	1	0.6		GRADE_BK_2400_Lip	1	0	1/EXT1	5.21	137	0.286				40	109	48.47	0.5	600	3	0.4	0.307	2/EXT1	T1	0.008	0.25	0.002			0.002	0.03	0.013	0.196	1.4	4.555	4.313	5.601	5.588	5.603	6.93	2/EXT1							
2	100	3/EXT1	3/EXT1 to 4/EXT2			5	307	0.73	0.73	0.006	0.004	0.004	2	2	1		GRADE_BK_2400_Lip	2	0		5.8	134	0.29				35	108	4.941	0.25	600	3	0.4	0.031	3/EXT1	T1/T2	0.007	0.32	0.002			0.002	0.03	0.001	0.236	1.1	4.253	4.241	5.585	5.584	5.588	7.193	3/EXT1							
2	100	4/EXT2	4/EXT2 to 2/100			5	307		1	0.072	0.072	0.072	61	69			ACC_CHA_1800				5.88	134	0.511				69	210	25.12	0.1	1050	3	0.2	0.1	4/EXT2	T2/T4	0.003	0.3	0.001			0.001	0.01	0.001	0.338	0.9	4.094	4.069	5.583	5.582	5.584	7.181	4/EXT2							
2	100	1/EXT2	1/EXT2 to 2/EXT2			5	307	0.73	0.73	0.057	0.042	0.042	16	16			1200x1200 FI	16	0		5	138	0.042				16	16	9.64	1	450	3	0.1	0.016	1/EXT2	G1	0.001	4.78	0.002			0.002	0	0	0.07	1.0	4.693	4.596	5.595	5.595	5.598	7.984	1/EXT2							
2	100	2/EXT2	2/EXT2 to 3/EXT2			5	307	0.73	0.73	0.107	0.079	0.079	30	30			GRADE_BK_4800_Lip	30	0		5.16	137	0.121				46	27.64	0.66	675	3	0.1	0.06	2/EXT2	G1/T1/T2	0.001	2.68	0.002			0.002	0	0.001	0.114	1.2	4.399	4.216	5.593	5.592	5.595	6.767	2/EXT2								
2	100	3/EXT2	3/EXT2 to 4/EXT2			5	307	0.73	0.73	0.135	0.099	0.099	38	59			GRADE_BK_4800_Lip	59	0		5.56	135	0.22				103	12.57	0.15	750	3	0.2	0.048	3/EXT2	G1/T4/T8	0.003	2.43	0.007			2.48	0.007	0.01	0.001	0.24	0.9	4.153	4.134	5.585	5.584	5.592	6.686	3/EXT2							
2	100	4/EXT2	4/EXT2 to 2/100			5	0			0	0	0	0	696			ACC_CHA_1800				5.88	134	0.511				696	210	25.12	0.1	1050	3	0.2	0.1	4/EXT2	T2/T4	0.003	0.3	0.001			0.001	0.01	0.001	0.338	0.9	4.094	4.069	5.583	5.582	5.584	7.181	4/EXT2							
2	100	2/100	2/100 to 3/100			5	307	0.73	0.73	0.072	0.053	0.053	20	20	2		3TC50_UNCHECKED	0	20	3/EXT2	6.36	131	0.752				275	1.653	1.09	1350	3	0.2	0.005	2/100	T10	0.002	2.08	0.004			2.65	0.005	0	0	0.196	2.1	4.009	3.991	5.578	5.578	5.583	7.389	2/100							
2	100	1/EXT3	1/EXT3 to 2/EXT3			5	307	0.73	0.73	0.154	0.113	0.113	43	43			PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL Application No.: MIN/2022/341 Dated: 8 September 2022 Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies				0.113	0	0				42	12.57	4	375	3	0.4	0.08	1/EXT3	G1	0.007	7	0.052			0.052	4.5	0.36	0.084	2.3	7.553	7.05	7.7	7.134	7.752	9.662	1/EXT3								
2	100	2/EXT3	2/EXT3 to 3/EXT3										W/D = 0	0	0						0.127	0	0				47	12.57	2	375	3	0.4	0.09	2/EXT3	T8/T10	0.009	1.73	0.016			2	0.019	2.26	0.232	0.106	1.8	6.614	6.363	6.771	6.487	6.789	9.341	2/EXT3							
2	100	3/EXT3	3/EXT3 to 4/EXT3			5	307																																																					

DESIGN ARI		LOCATION				TIME		SUB-CATCHMENT RUNOFF					INLET DESIGN				DRAIN DESIGN												HEADLOSSES												PART FULL		DESIGN LEVELS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
STRUCTURE No.	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	LAND USE	SLOPE OF CATCHMENT	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	10Y RUNOFF CO-EFFICIENT	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUM OF (C*A)	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. 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	V2/2g	Ku	hu	Kf	hf	Kw	hw	sF	HF	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 INVERT 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	m/s	m	m	m	m	m	m																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
2 100	8/X2	8/X2 to 9/X2														ACC_CHA_1200				6.05	133	1.344				1578	22.67	0.2	825 3	3.0	1.114	8/X2			0	0	0				0	0	0	0.825	3.0	16.74	16.7	19.03	19.03	19.03	19.72	8/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	9/X2	9/X2 to 10a/X2										W/D =	0	0		ACC_CHA_1350				6.18	132	1.344				1576	41.98	0.5	900 3	2.5	1.735	9/X2			0	0	0				0	0	0	0.9	2.5	16.65	16.44	19.03	19.03	19.03	19.68	9/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	10a/X2	10a/X2 to 10/X2										W/D =	0	0		ACC_CHA_1500				6.46	131	3.831				2476	12.07	0.5	900 3	3.9	0.782	10a/X2			0	0	0				0	0	0	0.9	3.9	16.4	16.34	19.03	19.03	19.03	19.45	10a/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	10/X2	10/X2 to 11/X2											0	0		ACC_CHA_1500				6.51	131	3.898				2472	34.88	0.5	1050 3	2.9	1.663	10/X2			0	0	0				0	0	0	1.05	2.9	16.32	16.14	19.03	19.03	19.03	19.37	10/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	11/X2	11/X2 to 12/X2										W/D =	0	0		ACC_CHA_1500				6.72	130	4.028				2529	77.96	0.4	1050 3	2.9	3.794	11/X2	T1/T2	0.321	0.21	0.067				0.067	0.54	0.42	1.05	2.9	16.09	15.78	18.96	18.54	19.03	19.13	11/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	12/X2	12/X2 to 13/X2											0	0		ACC_CHA_1500				7.16	128	4.174				2506	75.47	0.25	1050 3	2.9	3.635	12/X2	T1	0.334	0.2	0.067				0.067	0.56	0.423	1.05	2.9	15.73	15.54	18.47	18.05	18.54	18.63	12/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	13/X2	13/X2 to 14/X2										W/D =	0	0		ACC_CHA_1500				7.6	126	4.316				2482	7.24	0.5	1050 3	2.9	0.346	13/X2	T1/T2	0	0.21	0				0	0	0	1.05	2.9	15.52	15.48	18.05	18.05	18.05	18.14	13/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	14/X2	14/X2 to 15/X2										W/D =	0	0		ACC_CHA_1500				7.64	125	4.316				2480	27.35	0.5	1050 3	2.9	1.304	14/X2	T2/T4	0.407	0.47	0.191				0.191	0.68	0.187	1.05	2.9	15.4	15.27	17.86	17.67	18.05	18.09	14/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	15/X2	15/X2 to 16/X2											0	0		ACC_CHA_2100				7.8	125	4.435				2556	22.97	0.51	1050 3	3.0	1.13	15/X2	T8/T10	0.223	1.79	0.399				1.95	0.434	0.37	0.086	1.05	3.0	15.18	15.07	17.28	17.19	17.71	17.94	15/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	16/X2	16/X2 to 17/X2										W/D =	0	0		ACC_CHA_1800				7.93	124	5.847				3078	26.45	0.51	1200 3	2.7	1.199	16/X2	T1/T2	0.378	0.2	0.074				0.074	0.53	0.14	1.012	3.0	15.01	14.87	17.11	16.97	17.19	17.81	16/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	17/X2	17/X2 to 18/X2										W/D =	0	0		ACC_CHA_2100				8.07	123	6.576				3333	10.05	1	1200 3	3.0	0.494	17/X2	T8/T10	0.443	1.98	0.876				2.36	1.047	0.62	0.063	0.802	4.2	14.71	14.61	16.1	16.04	17.15	17.6	17/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	18/X2	18/X2 to 19/X2			5	138	0.73 0.73	0.73	0.102	0.076	0.076	29	53	0.04		1800 900x900 FI	53	0		8.11	123	6.715				3377	14.59	1.8	1200 RCP	3.0	0.727	18/X2	T4/T8	0.455	0.97	0.443				1.01	0.46	0.74	0.213	0.667	5.2	14.59	14.33	15.59	15.48	16.05	17.52	18/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	19/X2	19/X2 to 20/X2										W/D =	0	0		ACC_CHA_2100				8.16	123	6.715				3373	96.14	1	1350 RCP	2.4	3.781	19/X2	T4/T8	0.283	0.7	0.199				0.83	0.235	0.42	0.581	0.741	4.2	14.3	13.34	15.28	14.89	15.52	16.69	19/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	20/X2	20/X2 to 21/X2			5	138	0.73 0.73	0.73	0.059	0.043	0.043	17	17			2100 900x900 FI	17	0		8.54	121	6.76				3354	107	1	1350 RCP	2.3	4.173	20/X2	T1	0.28	0.22	0.063				0.063	0.34	0.36	0.738	4.2	13.32	12.25	14.82	14.46	14.89	15.51	20/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	21/X2	21/X2 to 22/X2			5	138	0.73 0.73	0.73	0.064	0.047	0.047	18	18			2100 900x900 FI	18	0		7.56	126	11.48				5091	80.79	0.8	1350 RCP	3.6	4.793	21/X2	T2/T4	0.491	0.43	0.213				0.213	0.59	0.476	1.088	4.1	12.23	11.58	14.25	13.77	14.46	14.46	21/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	22/X2	22/X2 to 23/X2			5	138	0.73 0.73	0.73	0.045	0.033	0.033	13	13							11.52						5053	77.8	0.7	1350 RCP	3.5	4.577	22/X2	T1	0.574	0.21	0.121				0.121	0.69	0.536	1.17	3.8	11.56	11.02	13.65	13.12	13.77	13.77	22/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	23/X2	23/X2 to 24/X2			5	138	0.73 0.73	0.73	0.049	0.036	0.036	14	14							12.94						5486	2.142	0.6	1500 RCP	3.1	0.111	23/X2	T4	0.058	0.62	0.037				0.037	0.06	0.001	1.139	3.8	11	10.99	13.08	13.08	13.12	13.12	23/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	24/X2	24/X2 to 25/X2										W/D =								12.94						5484	4.447	0.6	1500 3	3.1	0.23	24/X2	T4	0.061	0.59	0.036				0.036	0.06	0.003	1.139	3.8	10.97	10.94	13.04	13.04	13.08	13.08	24/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	25/X2	25/X2 to 26/X2										W/D =								12.94						5481	1.917	0.6	1500 3	3.1	0.099	25/X2	T2/T4	0.282	0.3	0.084				0.084	0.29	0.006	1.138	3.8	10.92	10.91	12.96	12.95	13.04	13.04	25/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	26/X2	26/X2 to 27/X2			5	138	0.73 0.73	0.73	0.327	0.241	0.241	92	92							15.94						6501	3.641	0.6	1500 RCP	3.7	0.223	26/X2	T4/T8	0.69	1.05	0.728				1.1	0.76	1.41	0.024	1.5	3.7	10.89	10.87	12.22	12.17	12.98	13.11	26/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
2 100	27/X2	27/X2 to 28/X2										W/D =	0	0		ACC_CHA_2100				15.94						3877	2.977	0.77	1500 RCP	2.2	0.109	27/X2	T1	0.246	0.2	0.049				0.049	7.79	0	0.817	3.9	10.85	10.82	11.87	11.64	11.92	12.95	27/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
2 100	28/X2											W/D =	0	0		HW outlet																28/X2																			11.64	12.32	28/X2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
2 100												W/D =	0	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									



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:	-

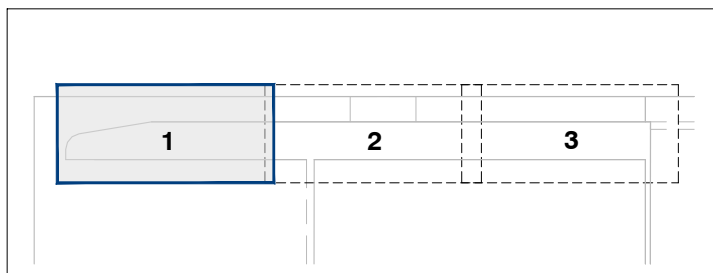
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DRAWING TITLE
STORMWATER DRAINAGE
CALCULATION TABLES
SHEET 6 OF 6

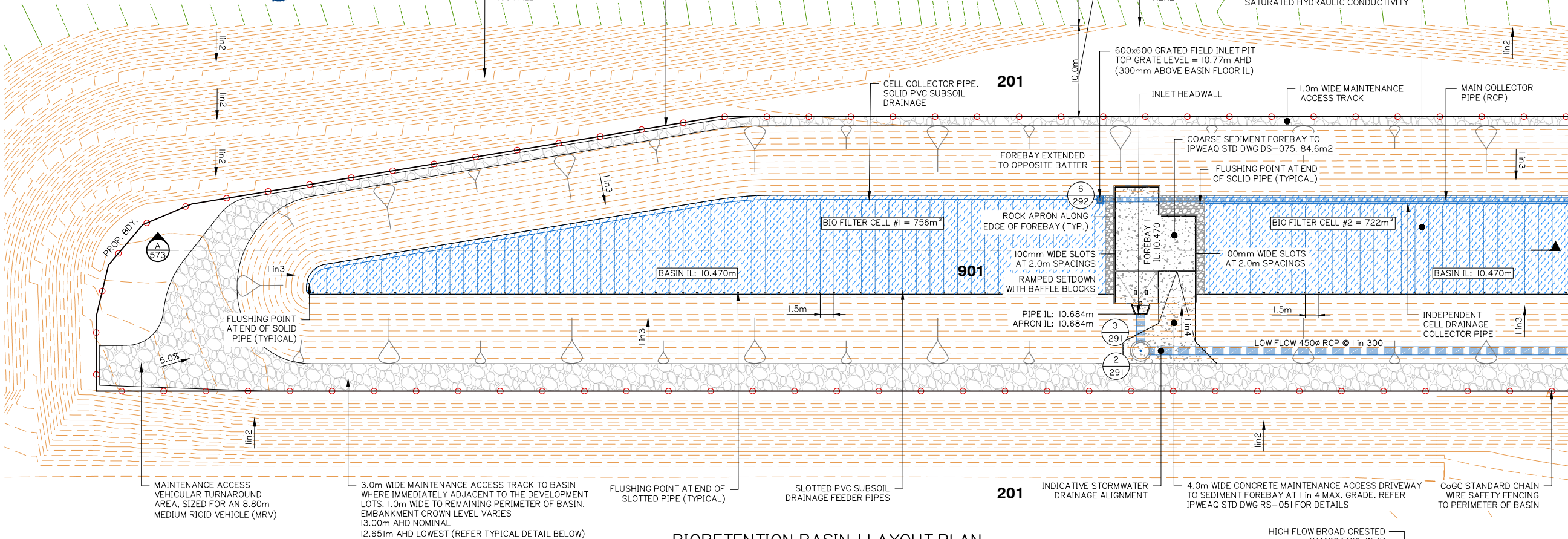
SCALE IN METRES

NOT APPLICABLE

Drawing No:	Rev. No:
5941 ENG OPW2 555	C



KEY PLAN
SCALE 1:3000



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

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 COURSE 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

$$V_s = A_c \times R \times L_o \times F = 11.0722 \text{ m}^3$$

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

$$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 2.7508/A_c} \right]^{-0.5} \quad A_c = 330.1 \text{ m}^2$$

$$D_s = \frac{V_s}{A_c} \quad D_s = \frac{11.0722}{330.1} = 0.034 \text{ m}$$

$$D_s = \frac{11.0722 \text{ m}^3}{253.977 \text{ m}^2} = 0.044 \text{ m}$$

OPTIMIZATION OF MINIMUM FOREBAY SIZE:

$$D_s = \frac{11.0722 \text{ m}^3}{253.977 \text{ m}^2} = 0.044 \text{ m}$$

CALCULATED FOR 3 FOREBAYS AT 84.659m² 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)

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

$R = 0.8$ (Recommended 80% Capture)

$L_o = 0.6$ (From Healthy Waterways Guide)

$n = 0.5$ (Recommended Turbulence)

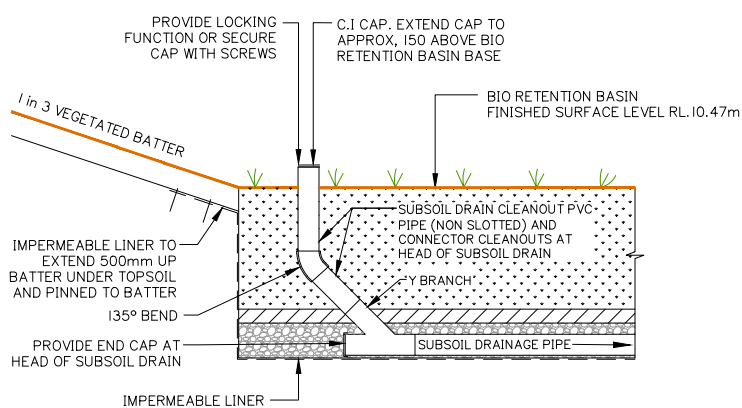
$F_c = 1.0$ (Frequency of Clean Out / Yr)

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

MAINTENANCE ACCESS TRACK - TYPICAL SECTION

N.T.S. UNO DENOTES 'UNLESS NOTED OTHERWISE'

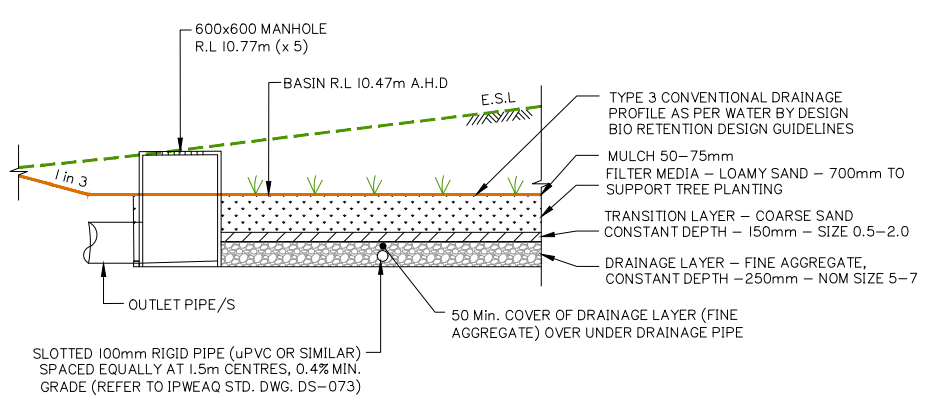
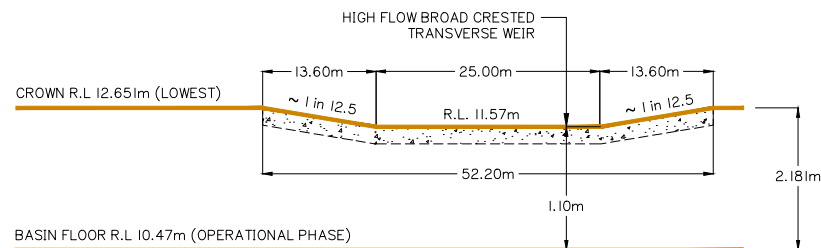


SUBSOIL DRAIN CLEANOUT - IN BASIN

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

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 1 OF 4

B	26/11/21	ISSUED FOR CONSTRUCTION	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

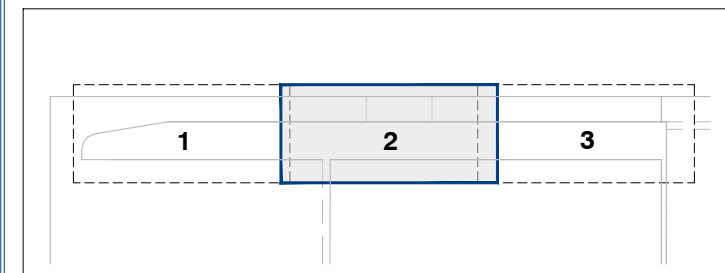
Signed:

Date: 10/09/2021

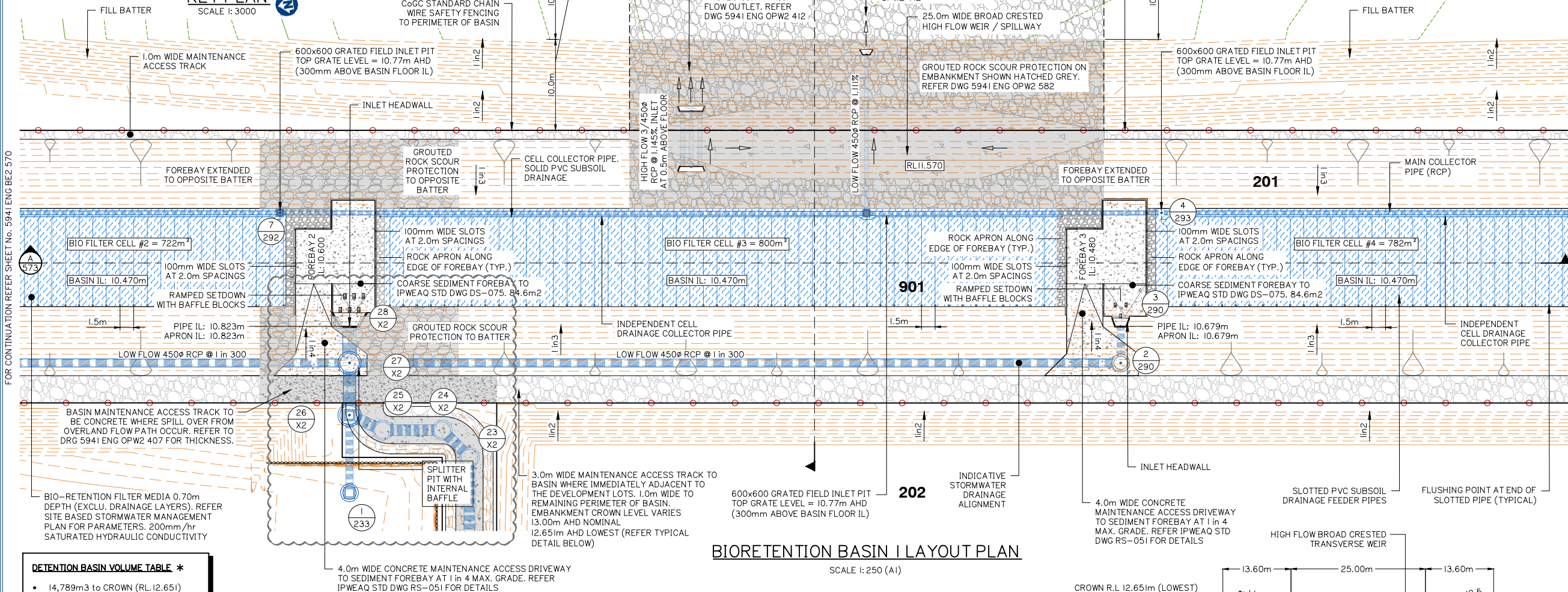
Drawing No: 5941 ENG OPW2 570

Rev. No: B

FOR CONTINUATION REFER SHEET No. 5941 ENG BE2 570



KEY PLAN
SCALE 1:3000



BIORETENTION BASIN I LAYOUT PLAN

SCALE 1:250 (A1)

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:

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

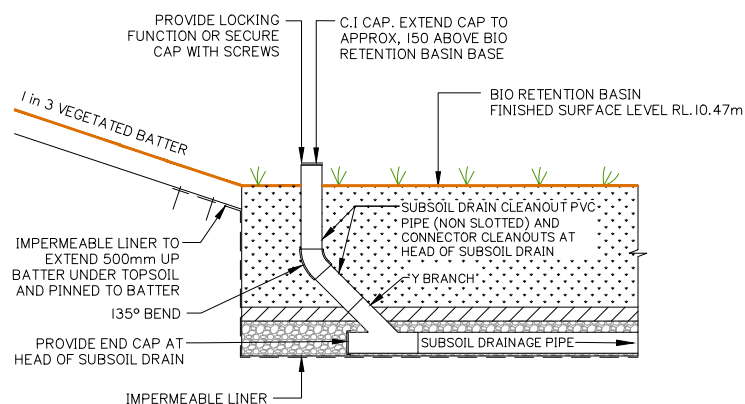
* 0.25m OF GRAVEL DRAINAGE. PARTICLE SIZE 5-7mm SCREENING.

BIO RETENTION - COARSE SEDIMENT FOREBAY SIZING GUIDE CALCULATIONS	
$V_s = A_c \times R \times L_o \times F = 11.0722m^3$	
$R = 1 - \left[1 + \frac{1}{n} \times \frac{V_s}{Q/A_c} \right]^{-n}$	
$0.8 = 1 - \left[1 + \frac{0.10}{0.5 \times 2.7508/A_c} \right]^{-0.5}$	$A_f = 330.1m^2$
$D_s = \frac{V_s}{A_f} = \frac{11.0722}{330.1} = 0.034m$	
OPTIMIZATION OF MINIMUM FOREBAY SIZE:	
$D_s = \frac{11.0722m^3}{253.977m^2} = 0.044m$	
CALCULATED FOR 3 FOREBAYS AT 84.659m² ea.	
$V_s = 11.0722m^3$ (Workings Above)	
$A_c = 23.067ha$ (Refer Catchment Plans)	
UNMITIGATED POST-DEVELOPMENT FLOW $Q = 2.7508m^3/s$ (3 month ARI)	
$V_s = 0.1m/s$ (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
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5	11.844	1.374
2	11.902	1.432
1	11.946	1.476

MAINTENANCE ACCESS TRACK - TYPICAL SECTION

N.T.S. UNO DENOTES 'UNLESS NOTED OTHERWISE'

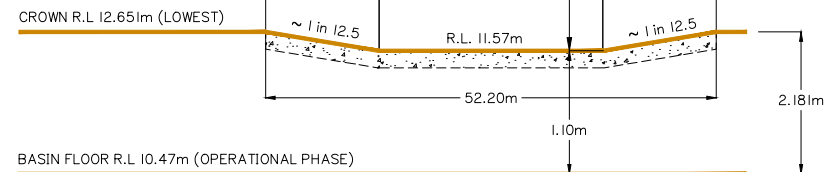


SUBSOIL DRAIN CLEANOUT - IN BASIN

N.T.S.

WEIR / SPILLWAY - TYPICAL ELEVATION

N.T.S.



PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: MIN/2022/341

Dated: 8 September 2022

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

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

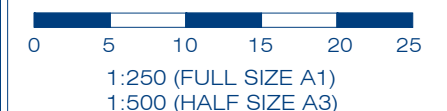
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
OPERATIONAL PHASE
BIORETENTION BASIN
SHEET 2 OF 4

Issue	Date	Description	LAB	MG	LAB	MG	LAB	MG
C	19/07/22	STORMWATER ALIGNMENT UPDATED	LAB	MG				
B	26/11/21	ISSUED FOR CONSTRUCTION	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: 1:250

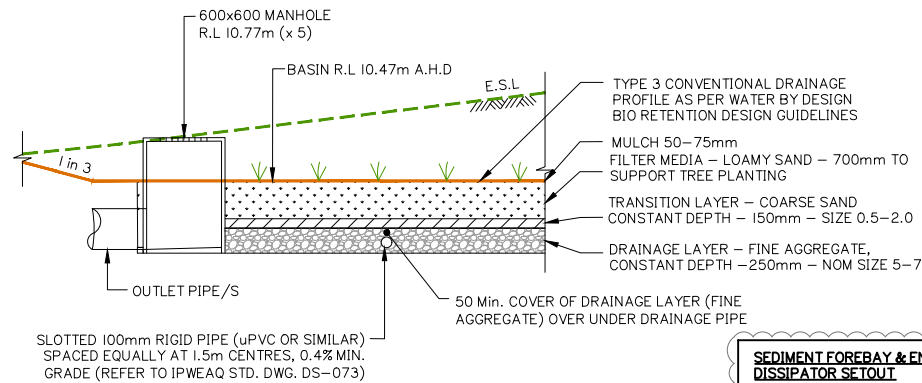
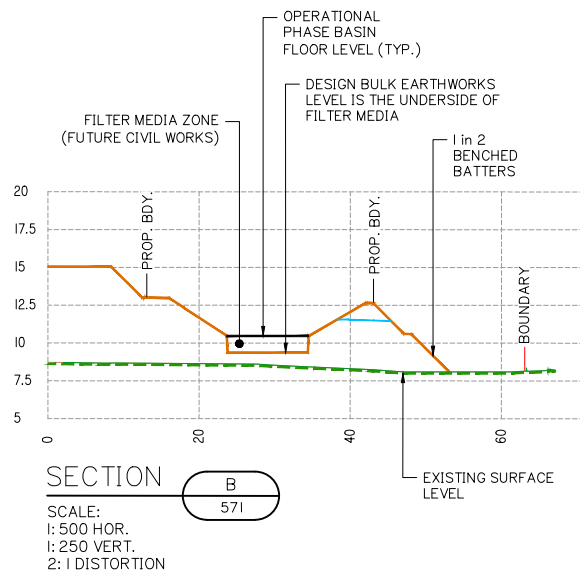
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No: 5941 ENG OPW2 571
Rev. No: C



NOTE:

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

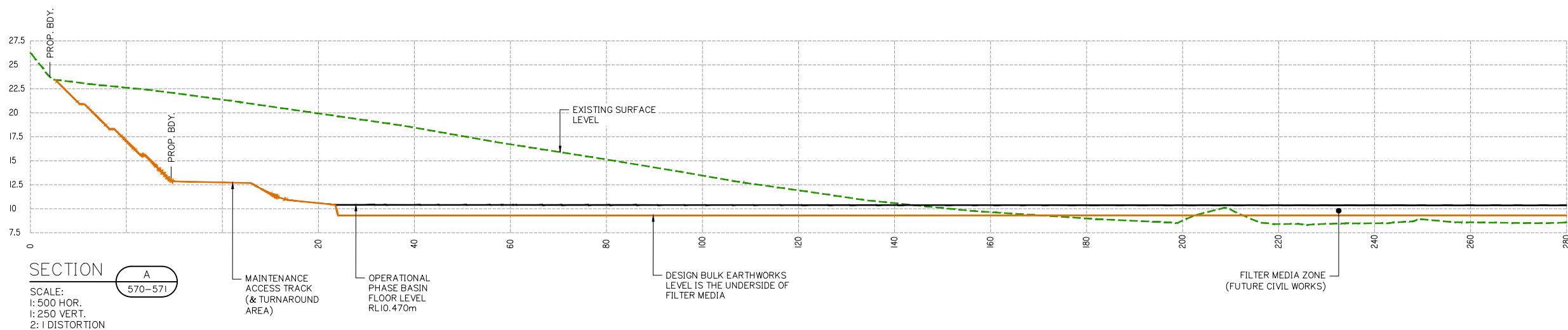
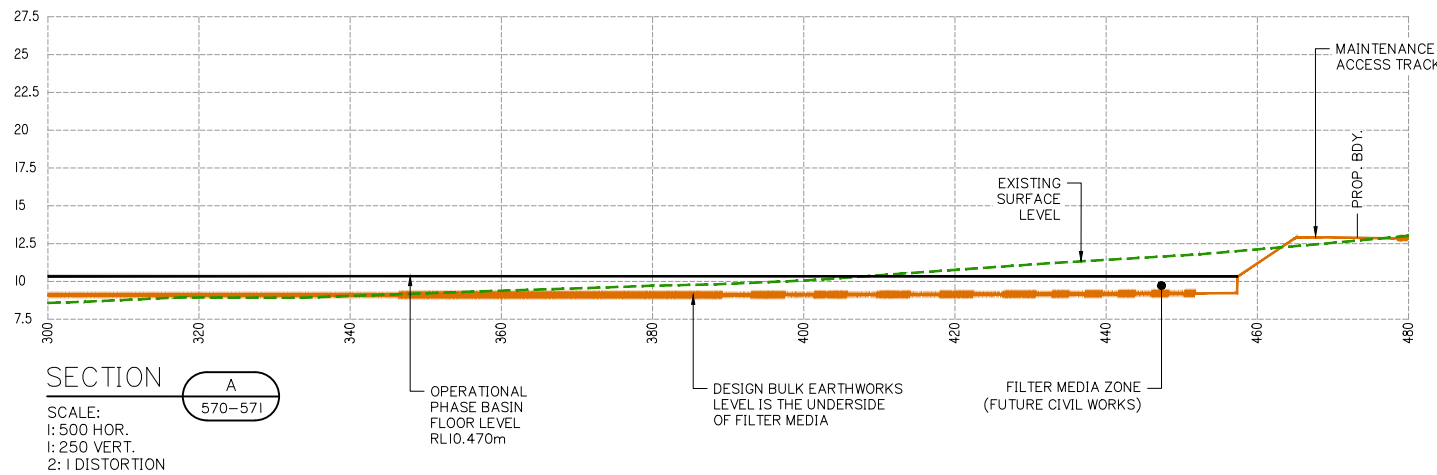


PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

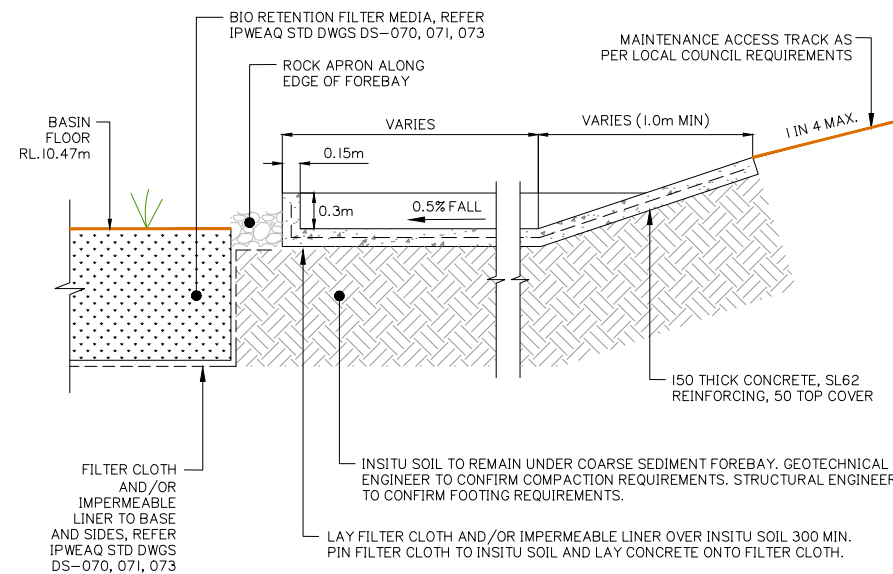
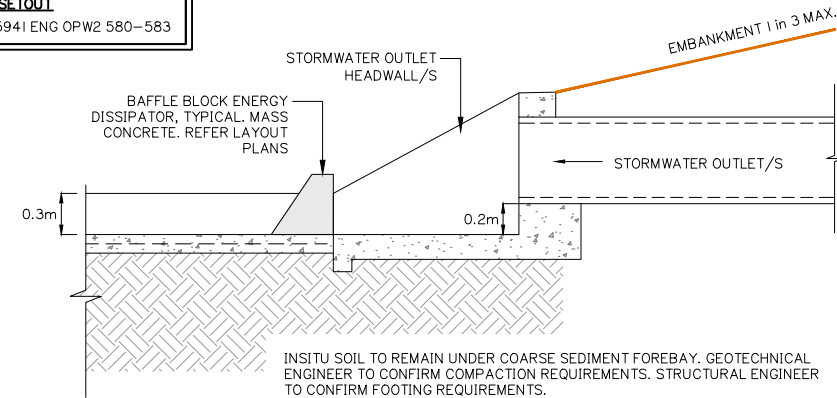
Application No: MIN/2022/341

Dated: 8 September 2022

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



SEDIMENT FOREBAY & ENERGY DISSIPATOR SETOUT
REFER DWG 5941 ENG OPW2 580-583



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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

OPERATIONAL PHASE BIORETENTION BASIN
SHEET 4 OF 4

B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

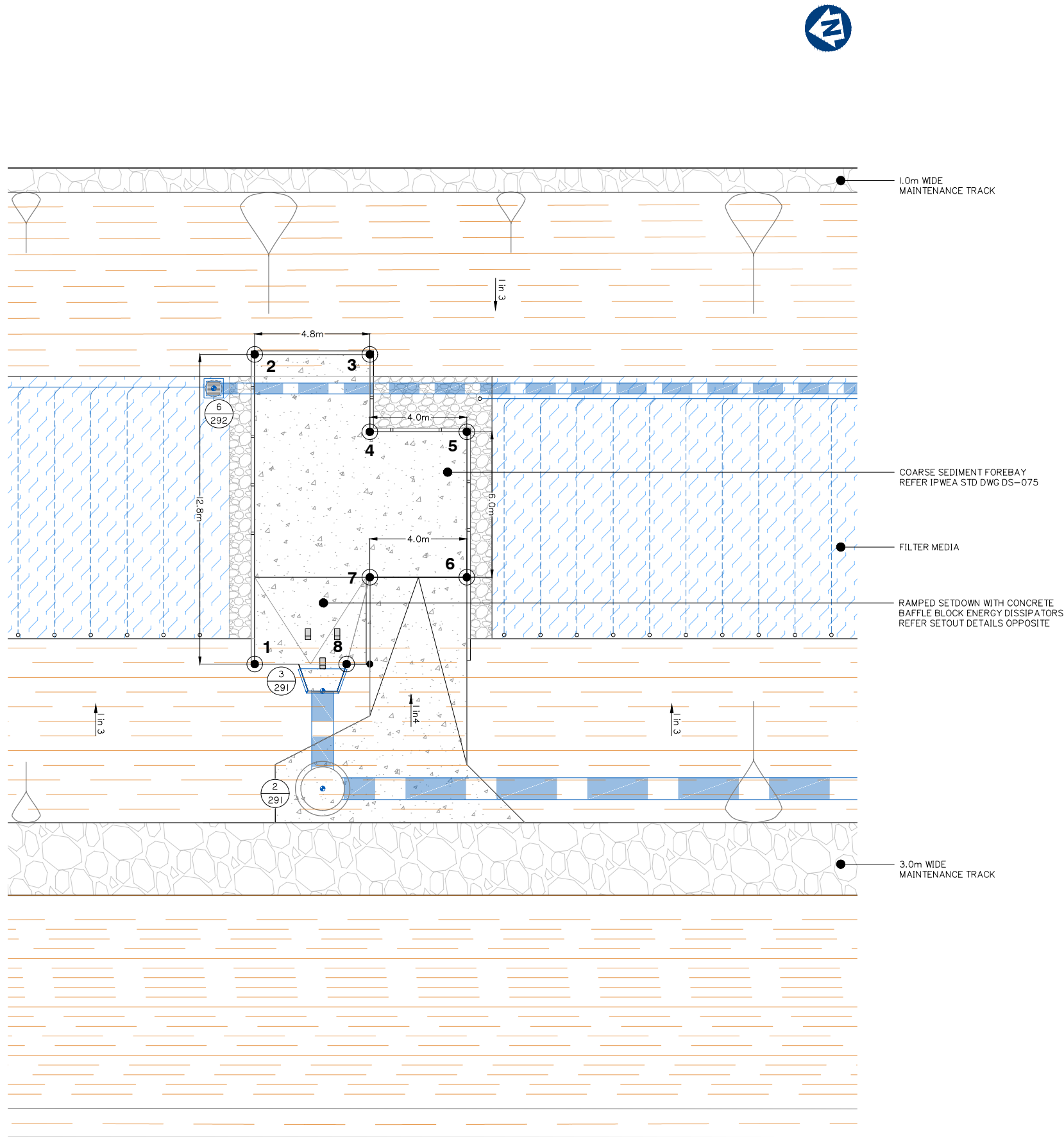
SCALE IN METRES



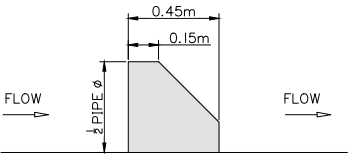
Scale at A1: 1:500

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

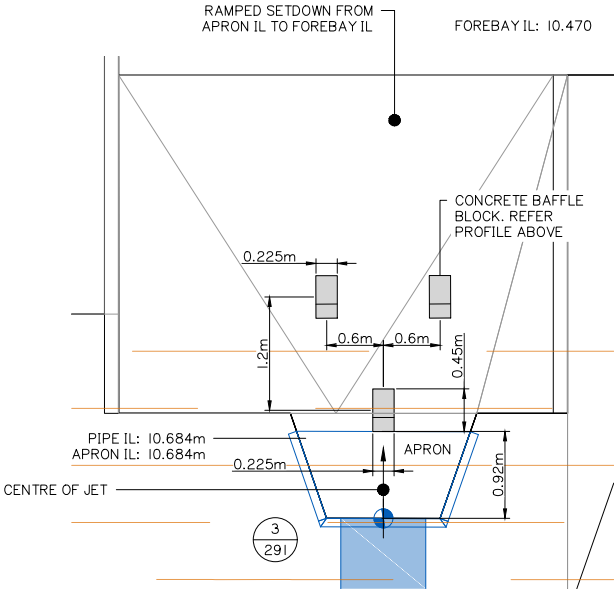
Drawing No: 5941 ENG OPW2 573 Rev. No: B



FOREBAY I – SETOUT TABLE			
SETOUT POINT	NORTHING	EASTING	RL (m, AHD)
1	3095.311	6841.680	10.684m
2	3107.917	6839.638	10.47m
3	3107.158	6834.949	10.47m
4	3104.009	6835.459	10.47m
5	3103.369	6831.511	10.47m
6	3097.447	6832.470	10.47m
7	3098.086	6836.418	10.47m
8	3094.705	6837.937	10.684m



BAFFLE BLOCK PROFILE 1:25



BAFFLE BLOCK SETOUT 1:40

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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
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DRAWING TITLE
COARSE SEDIMENT
FOREBAY 1 SETOUT
SHEET 1 OF 4

B	26/11/21	ISSUED FOR CONSTRUCTION	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



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

Scale at A1: 1:100

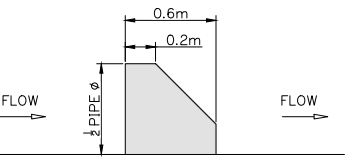
Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	10/09/2021

Drawing No:
5941 ENG OPW2 580

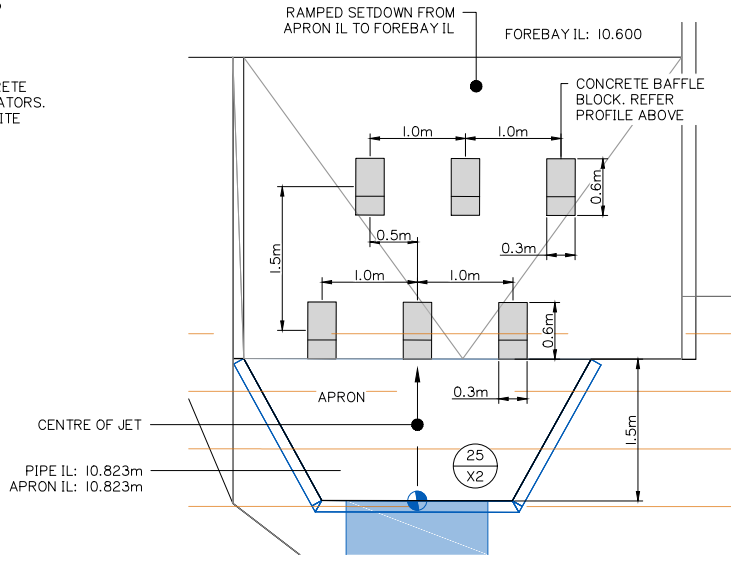
Rev. No:
B



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



BAFFLE BLOCK PROFILE 1:25



BAFFLE BLOCK SETOUT 1:40

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

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

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA STAGE 2

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

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COUNCIL
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DRAWING TITLE
COARSE SEDIMENT
FOREBAY 2 SETOUT
SHEET 2 OF 4

C	19/07/22	STORMWATER AND LOT BOUNDARY UPDATED	LAB	MG
B	28/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
B	1/06/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG
Issue	Date	Description	DRN	CHK

SCALE IN METRES



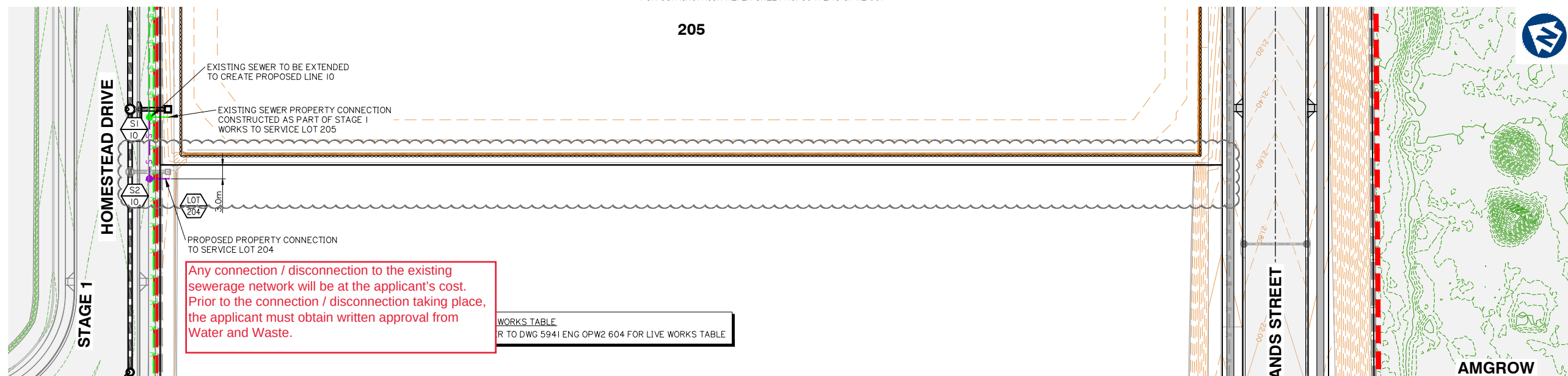
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1:200 (HALF SIZE A3)

Scale at A1: 1:100

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

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

205



SEWER STRUCTURE SETOUT TABLE

STRUCTURE No.	EASTING	NORTHING
S34 / 5	2691.281	6807.728
S33 / 5	2788.689	6791.915
S32 / 5	2882.346	6776.711
S31 / 5	2977.009	6761.343
S30 / 5	3071.672	6745.976
S29 / 5	3062.518	6689.330
S28 / 5	3043.289	6570.881
S27 / 5	3031.107	6495.500
S26 / 5	3056.277	6491.413
S25 / 5	3037.355	6374.560
S24 / 5	3019.779	6266.019
S23 / 5	3012.428	6220.626
S22 / 5	2993.446	6103.406
S21 / 5	2978.609	6011.788
S15 / 7	2655.014	6697.983
S14 / 7	2655.449	6687.005
S13 / 7	2657.343	6676.183
S12 / 7	2660.662	6665.710
S11 / 7	2665.373	6655.720
S10 / 7	2718.378	6560.392
S9 / 7	2741.733	6537.414
S8 / 7	2750.768	6541.133
S7 / 7	2756.520	6542.638
S6 / 7	2764.358	6543.338
S5 / 7	2772.130	6542.734
S4 / 7	2864.436	6527.749
S3 / 7	2863.615	6522.690
S2 / 7	2947.361	6509.095
S1 / 7	3013.008	6498.438
S1 / 8	2643.921	6483.225
S1 / 9	2870.677	6566.196
S1 / 10	2466.432	6674.779
S2 / 10	2454.738	6668.301
LOT 201 PC	2884.520	6790.100
LOT 202 PC	3014.358	6506.754
LOT 203 PC	2871.366	6570.440
LOT 204 PC	2456.822	6664.539
LOT 205 PC	2662.095	6653.898
LOT CP PC	2771.601	6539.021

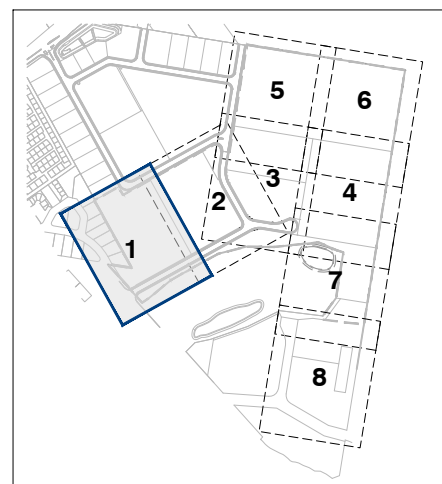
204

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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



SEWER STRUCTURE LEGEND

- SEWER MAINTENANCE HOLE
- TYPE P3-1050Ø (U.N.O)
- TYPE C-1500Ø AS NOTED

DEEP STRUCTURES NOTE:
REFER TO ATTACHED PROTEST ENGINEERING FORM 15 DATED
21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP.

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

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE
LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN
ACCORDANCE WITH SEWERAGE STANDARD DRAWING
SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE
HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEWER RETICULATION
LAYOUT PLAN SHEET 1 OF 8

Issue	Date	Description	LAB	MG	CHK
E	19/07/22	LOT NUMBER UPDATED	JH	MG	
D	24/06/22	EXISTING RM AND ENCASING ADDED	JH	MG	
C	22/04/22	ISSUED FOR CONSTRUCTION	JH	MG	
C	31/01/22	DEEP STRUCTURES NOTE ADDED	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	JH	MG	
B	10/09/21	INFORMATION REQUEST RESPONSE	JH	MG	
A	30/07/21	ORIGINAL ISSUE	JH	MG	

SCALE IN METRES

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

Scale at A1: 1:500

Designed: IG

Drafted: LAB / IG

Approved: MG

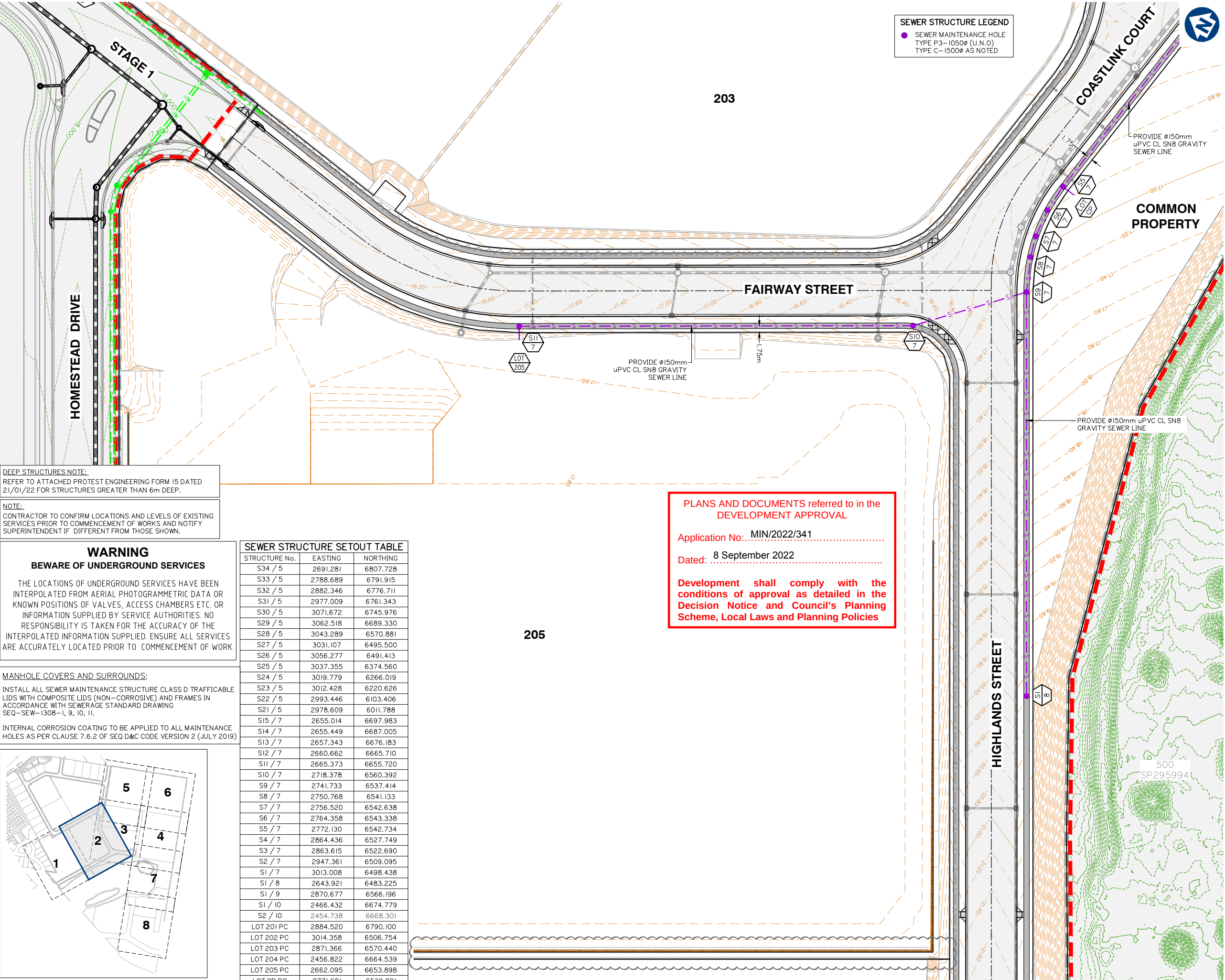
RPEQ: 16939

Signed:

Date: 05/07/2022

Drawing No:
5941 ENG OPW2 600

Rev. No:
E



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

SEWER RETICULATION
LAYOUT PLAN SHEET 2 OF 8

Issue	Date	Description	LAB	MG	CHK
D	19/07/22	LOT NUMBER, LOT BOUNDARY AND SEWER UPDATED	LAB	MG	
C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
C	31/01/22	DEEP STRUCTURES NOTE ADDED	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
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

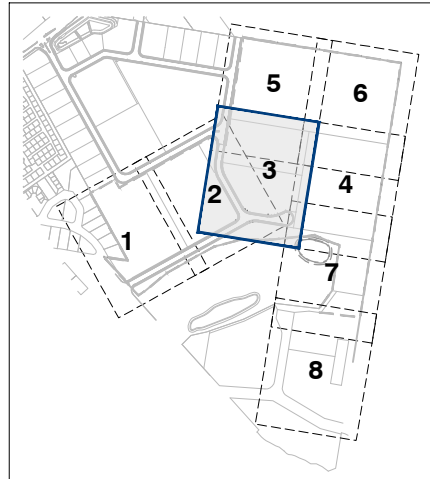
Signed:

Date: 05/07/2022

Drawing No:
5941 ENG OPW2 601

Rev. No:
D

SEWER STRUCTURE SETOUT TABLE		
STRUCTURE No.	EASTING	NORTHING
S34 / 5	2691.281	6807.728
S33 / 5	2788.689	6791.915
S32 / 5	2882.346	6776.711
S31 / 5	2977.009	6761.343
S30 / 5	3071.672	6745.976
S29 / 5	3062.518	6689.330
S28 / 5	3043.289	6570.881
S27 / 5	3031.107	6495.500
S26 / 5	3056.277	6491.413
S25 / 5	3037.355	6374.560
S24 / 5	3019.779	6266.019
S23 / 5	3012.428	6220.626
S22 / 5	2993.446	6103.406
S21 / 5	2978.609	6011.788
S15 / 7	2655.014	6697.983
S14 / 7	2655.449	6687.005
S13 / 7	2657.343	6676.183
S12 / 7	2660.662	6665.710
S11 / 7	2665.373	6655.720
S10 / 7	2718.378	6560.392
S9 / 7	2741.733	6537.414
S8 / 7	2750.768	6541.133
S7 / 7	2756.520	6542.638
S6 / 7	2764.358	6543.338
S5 / 7	2772.130	6542.734
S4 / 7	2864.436	6527.749
S3 / 7	2863.615	6522.690
S2 / 7	2947.361	6509.095
S1 / 7	3013.008	6498.438
S1 / 8	2643.921	6483.225
S1 / 9	2870.677	6566.196
S1 / 10	2466.432	6674.779
S2 / 10	2454.738	6668.301
LOT 201 PC	2884.520	6790.100
LOT 202 PC	3014.358	6506.754
LOT 203 PC	2871.366	6570.440
LOT 204 PC	2456.822	6664.539
LOT 205 PC	2662.095	6653.898
LOT CP PC	2771.601	6539.021



KEY PLAN
SCALE 1:7500

SEWER STRUCTURE LEGEND
● SEWER MAINTENANCE HOLE
TYPE P3-1050Ø (U.N.O)
TYPE C-1500Ø AS NOTED

LIVE WORKS TABLE
REFER TO DWG 5941 ENG OPW2 604 FOR LIVE WORKS TABLE

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.

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-I, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

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

DEEP STRUCTURES NOTE:
REFER TO ATTACHED PROTEST ENGINEERING FORM 15 DATED 21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP.

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 14 September 2022

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

Any connection / disconnection to the existing
sewerage network will be at the applicant's
cost. Prior to the connection / disconnection
taking place, the applicant must obtain written
approval from Water and Waste.

EXISTING POTABLE WATER
MAIN AND ELECTRICAL AND
COMMS TO BE PROTECTED
AT ALL TIMES

EXISTING STRUCTURE
TO BE KNOCKED DOWN
1000mm BELOW FSL
AND VERGE TO BE
REINSTATED

PROPOSED STRUCTURE S34/5 TO
BE CONSTRUCTED OVER EXISTING
LIVE BUILD AS PART OF STAGE 1.

PMT / RMU SITE

STAGE 1

REDUNDANT LINE TO
BE GROUT FILLED AND
ABANDONED.

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
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PSM: -
RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEWER RETICULATION
LAYOUT PLAN SHEET 3 OF 8

Issue	Date	Description	LAB	MG	CHK
E	05/09/22	NOTE AMENDED	JH	MG	
D	18/07/22	LOT BOUNDARY, LOT NUMBER, SEWER UPDATED	LAB	MG	
C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
C	31/01/22	DEEP STRUCTURES NOTE ADDED	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	

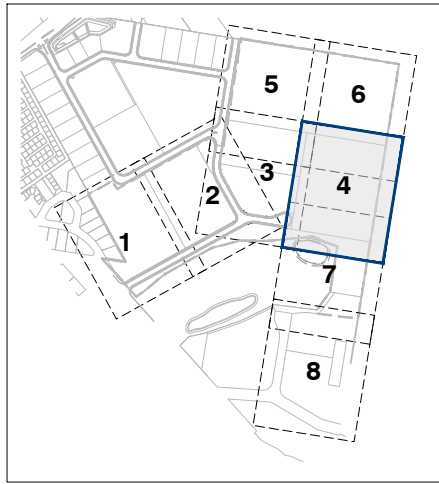
SCALE IN METRES

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:	05/09/2022

Drawing No: 5941 ENG OPW2 602
Rev. No: E



KEY PLAN
SCALE 1:7500

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:

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

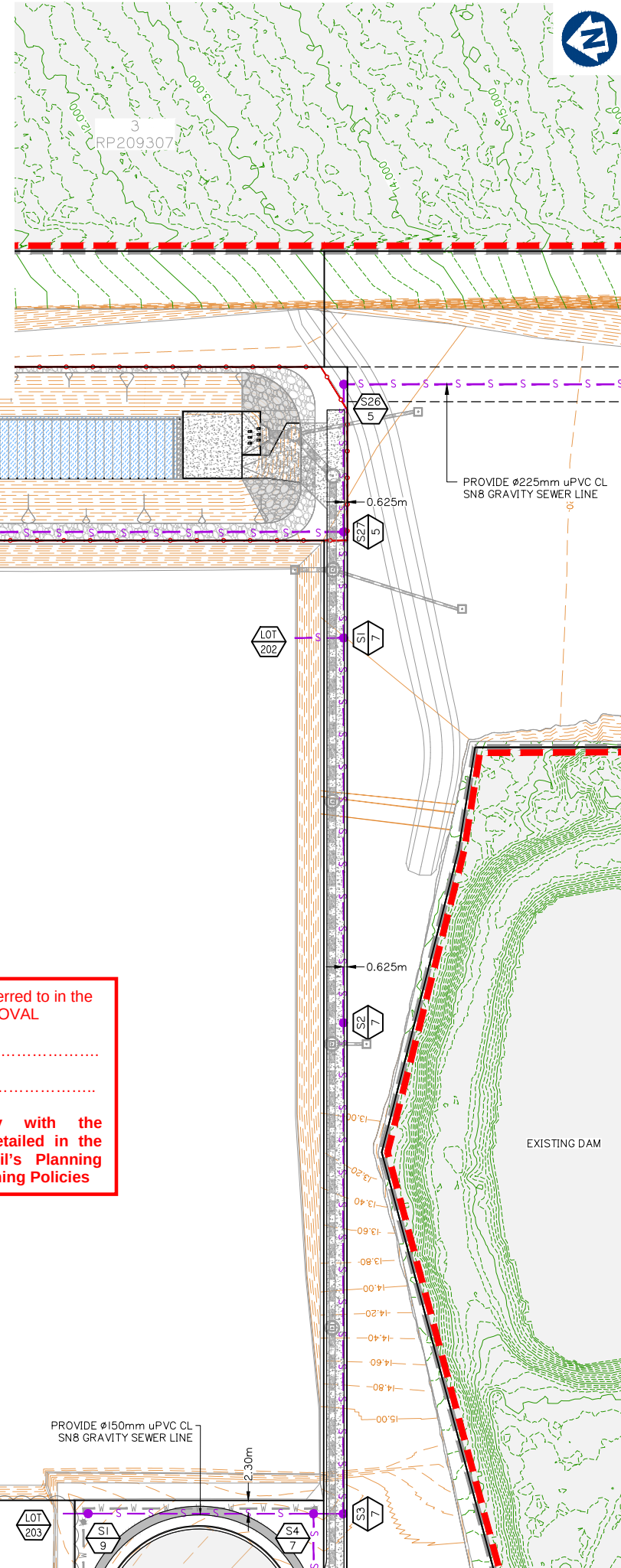
MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-I, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

STRUCTURE No.	EASTING	NORTHING
S34 / 5	2691.281	6807.728
S33 / 5	2788.689	6791.915
S32 / 5	2882.346	6776.711
S31 / 5	2977.009	6761.343
S30 / 5	3071.672	6745.976
S29 / 5	3062.518	6689.330
S28 / 5	3043.289	6570.881
S27 / 5	3031.107	6495.500
S26 / 5	3056.277	6491.413
S25 / 5	3037.355	6374.560
S24 / 5	3019.779	6266.019
S23 / 5	3012.428	6220.626
S22 / 5	2993.446	6103.406
S21 / 5	2978.609	6011.788
S15 / 7	2655.014	6697.983
S14 / 7	2655.449	6687.005
S13 / 7	2657.343	6676.183
S12 / 7	2660.662	6665.710
S11 / 7	2665.373	6655.720

S10 / 7	2718.378	6560.392
S9 / 7	2741.733	6537.414
S8 / 7	2750.768	6541.133
S7 / 7	2756.520	6542.638
S6 / 7	2764.358	6543.338
S5 / 7	2772.130	6542.734
S4 / 7	2864.436	6527.749
S3 / 7	2863.615	6522.690
S2 / 7	2947.361	6509.095
S1 / 7	3013.008	6498.438
S1 / 8	2643.921	6483.225
S1 / 9	2870.677	6566.196
S1 / 10	2466.432	6674.779
S2 / 10	2454.738	6668.301
LOT 201 PC	2884.520	6790.100
LOT 202 PC	3014.358	6506.754
LOT 203 PC	2871.366	6570.440
LOT 204 PC	2456.822	6664.539
LOT 205 PC	2662.095	6653.898
LOT CP PC	2771.601	6539.021



DEEP STRUCTURES NOTE:

REFER TO ATTACHED PROTEST ENGINEERING FORM IS DATED 21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP.

SEWER STRUCTURE LEGEND

- SEWER MAINTENANCE HOLE
- TYPE P3-1050Ø (U.N.O)
- TYPE C-1500Ø AS NOTED

PROVIDE Ø150mm uPVC CL
SN8 GRAVITY SEWER LINE

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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

SEWER RETICULATION
LAYOUT PLAN SHEET 4 OF 8

Issue	Date	Description	LAB	MG	CHK
D	19/07/22	LOT NUMBER, LOT BOUNDARY AND SEWER UPDATED	LAB	MG	
C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
C	31/01/22	DEEP STRUCTURES NOTE ADDED	JH	MG	
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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:	05/07/2022

Drawing No: 5941 ENG OPW2 603
Rev. No: D

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 605

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 606

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 602

SEWER RETICULATION LAYOUT PLAN SHEET 4 OF 8

WARNING
BEWARE OF UNDERGROUND SERVICES

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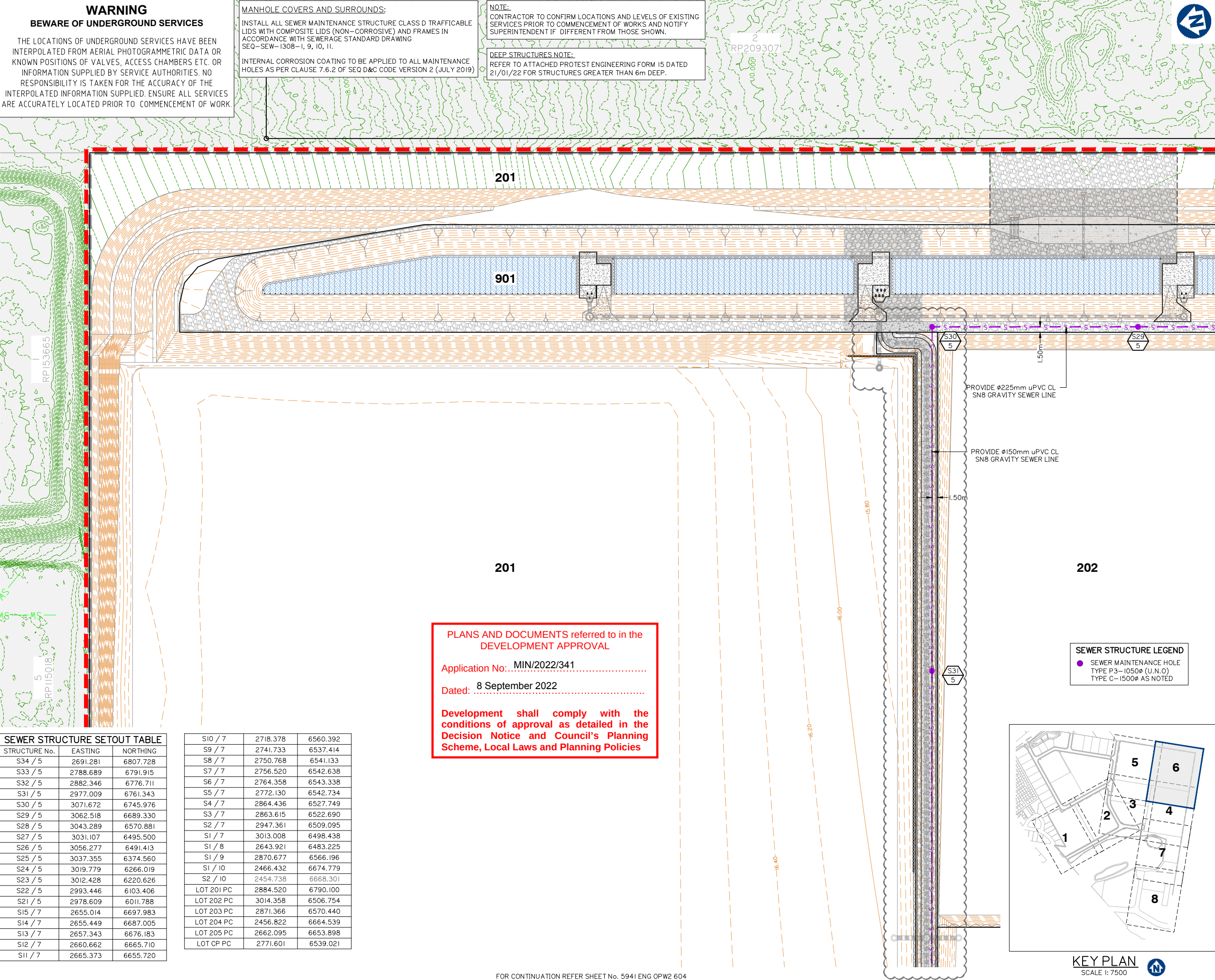
MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

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

DEEP STRUCTURES NOTE:
REFER TO ATTACHED PROTEST ENGINEERING FORM I5 DATED 21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP.



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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RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEWER RETICULATION
LAYOUT PLAN SHEET 6 OF 8

Issue	Date	Description	LAB	MG	CHK
D	19/07/22	LOT NUMBER, LOT BOUNDARY AND SEWER UPDATED	LAB	MG	
C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
C	31/01/22	DEEP STRUCTURES NOTE ADDED	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	

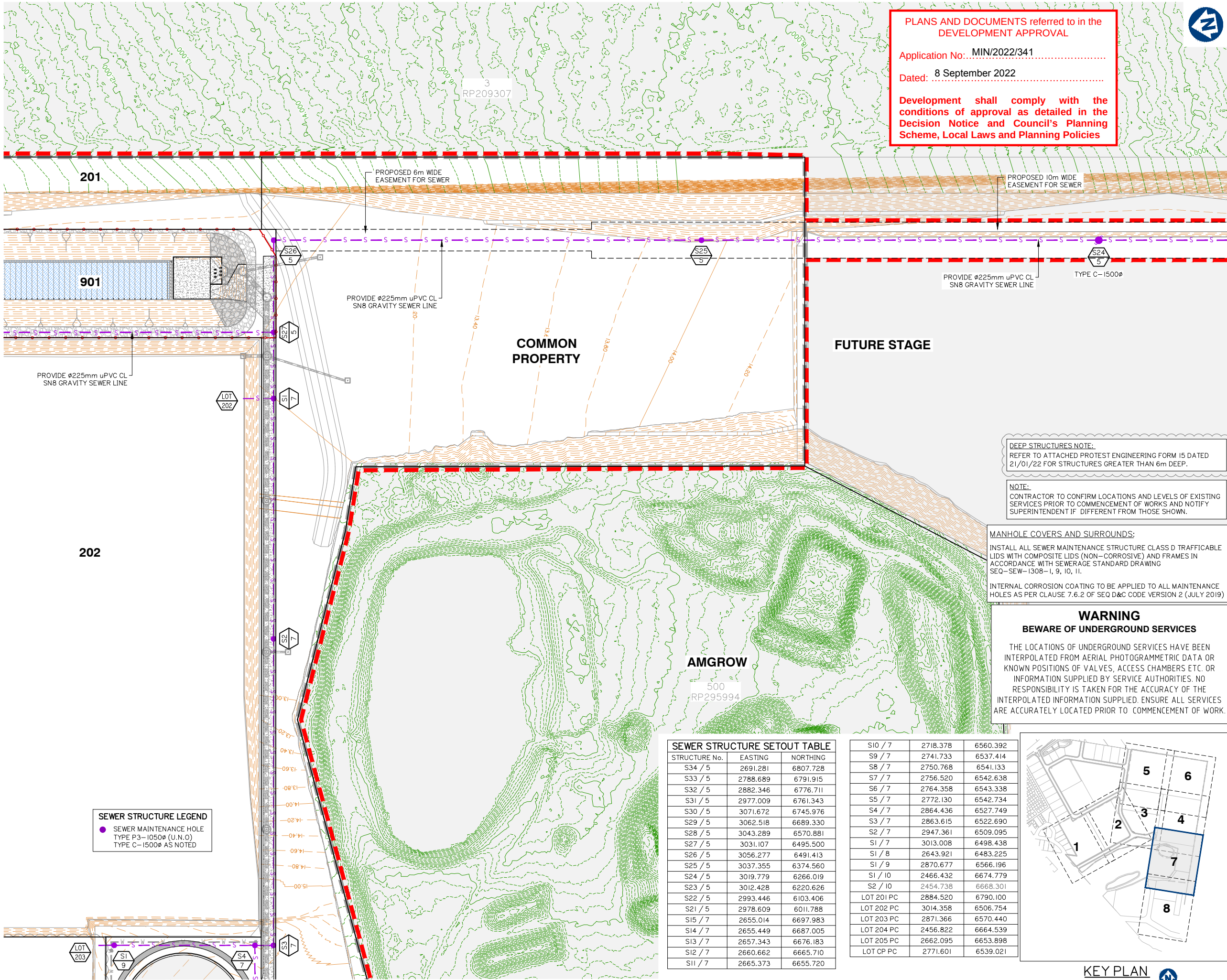
SCALE IN METRES

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

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No: 5941 ENG OPW2 605
Rev. No: D



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

DEEP STRUCTURES NOTE:
REFER TO ATTACHED PROTEST ENGINEERING FORM 15 DATED
21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP.

NOTE:
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MANHOLE COVERS AND SURROUNDS:
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ACCORDANCE WITH SEWERAGE STANDARD DRAWING
SEQ-SEW-1308-1, 9, 10, 11.

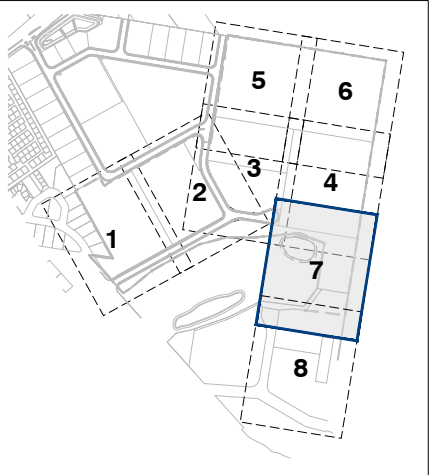
INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE
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SEWER STRUCTURE SETOUT TABLE		
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S32 / 5	2882.346	6776.711
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S29 / 5	3062.518	6689.330
S28 / 5	3043.289	6570.881
S27 / 5	3031.107	6495.500
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S12 / 7	2660.662	6665.710
S11 / 7	2665.373	6655.720

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LOT 202 PC	3014.358	6506.754
LOT 203 PC	2871.366	6570.440
LOT 204 PC	2456.822	6664.539
LOT 205 PC	2662.095	6653.898
LOT CP PC	2771.601	6539.021



SEWER STRUCTURE LEGEND

SEWER MAINTENANCE HOLE
TYPE P3-1050Ø (U.N.O)
TYPE C-1500Ø AS NOTED

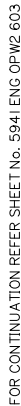
Issue	Date	Description	LAB	MG	CHK
C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
C	31/01/22	DEEP STRUCTURES NOTE ADDED	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
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SCALE IN METRES

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



Any connection / disconnection to the existing sewerage network will be at the applicant's cost. Prior to the connection / disconnection taking place, the applicant must obtain written approval from Water and Waste.

MAINTENANCE HOLE / SHAFT No.

S22/5

MH / MS COVER TYPE

D/C

MH / MS TYPE

C

MH / MS DROP TYPE

V

LINE DEFLECTION & BRANCHES

I

INTERNAL CORROSION PROTECTION

Y

PROPERTY CONNECTION TYPE

I

RIGSS STRUCTURE DROPS		RIGSS STRUCTURE LIDS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1	B	NON-TRAFFICABLE LID
W	OBLIQUE 45° "Y" JUNCTION SEQ DWG SEQ-SEW-1303-1	D	TRAFFICABLE LID
X	INTERNAL BACKDROP SEQ DWG SEQ-SEW-1303-1	C	COMPOSITE
Z	VERTICAL DROP JUNCTION STD DWG SEQ-SEW-1314-1	CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH	
		TRENCHSTOPS, BULKHEADS & CONCRETE ENCASEMENTS	

RIGSS STRUCTURE TYPES	
P3	1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH CONVERSION SLAB AND PRE-CAST BASE. INSTALL CLASS D 'COMPOSITE' COVER. SEQ STD DWG SEQ-SEW-1300-1
C	1500mm DIA. CAST-IN-SITU MAINTENANCE HOLE INSTALL DUCTILE IRON CLASS D 'COMPOSITE' COVER. REFER SEQ STD DWG SEQ-SEW-1307-1. REFER NOTE 12
J1	TYPE "J1" MAINTENANCE SHAFT (3.0m MAXIMUM DEPTH TO IL) SEQ STD DWG SEQ-SEW-1314-2
BND	LONG RADIUS BEND (R3.0m) SEQ STD DWG SEQ-SEW-1314-3

RIGSS PROPERTY CONNECTION TYPES	
V	STRAIGHT THROUGH SEWER (250mm MAX. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
W	OBLIQUE 45° "Y" JUNCTION (250mm-600mm DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
X	INTERNAL BACKDROP (600mm MIN. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
Z	DROP JUNCTION TO DN300 RISER OF MAINTENANCE SHAFT SEQ STD DWG SEQ-SEW-1314-1 AND 1314-2

RIGSS GENERAL NOTES	
1	ALL uPVC SEWER PIPE TO BE CLASS SN8 INCLUDING ALL PROPERTY CONNECTIONS.
2	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
3	ALL BENDS TO BE LONG RADIUS BEND, 3.0m RADIUS. REFER DWG SEQ-SEW-1314-3
4	ALL MAINTENANCE SHAFTS (MS) SHALL HAVE 300mmØ PVC RISERS, AND NOT EXCEED 3.0m DEPTH (FSL TO INVERT LEVEL).
5	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
6	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES TYPE P3. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
7	WHERE NOTED ON THE DRAWINGS, CONTRACTOR TO CONSTRUCT BRIDGING SLAB SPANNING THE SEWER TRENCH. REFER TYPICAL SECTIONS AND DETAILS ON DWG No. 5941 ENG OPW2 410
8	WHERE NOTED ON THE DRAWINGS, TRENCHSTOPS, BULKHEADS AND CONCRETE ENCASEMENTS TO BE INSTALLED IN ACCORDANCE WITH THE SEQ SEWER CODE.
9	ALL PROPERTY CONNECTIONS TO BE 150# uPVC CLASS SN8 UNLESS NOTED OTHERWISE.
10	DESIGN OF DEEP SEWER STRUCTURES GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2, AND PE LINING REQUIREMENTS. REFER ALSO NOTE 12.
11	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(1) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.
12	MAINTENANCE HOLES OVER 6.0m DEEP REQUIRE SPECIAL DESIGN & CERTIFICATION BY A REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ) AS PER SEQ STD DWG SEQ-SEW-1307-1
13	REFER TO ATTACHED PROTEST ENGINEERING FORM 15 DATED 21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP

DATUM RL 3.000

PROPERTY DESCRIPTION	PRIVATE LOT	PRIVATE LOT	PRIVATE LOT
PIPE SIZE (mm), CLASS	DN225 uPVC SN8	DN225 uPVC SN8	DN225 uPVC SN8
GRADE (I IN X) CTR - CTR OF STRUCTURE	I IN 300	I IN 300	I IN 300
LENGTH	118.747	45.985	109.955
EMBEDMENT TYPE	4	4	4
PIPE GRADE (%)	0.333%	0.333%	0.333%
DEPTH TO INVERT	6.383 6.363	5.986 5.966	6.576 6.556
INVERT LEVEL	7.536 7.556	7.952 7.973	8.125 8.145
FINISHED SURFACE LEVEL	13.918	13.936	14.700
EXISTING SURFACE LEVEL	11.291	12.355	14.938
CHAINAGE	1407.129	1525.876	1571.860

LINE 5

S23/5

D/C

C

V

I

Y

I

REFER NOTE 12

FOR CAST-IN-SITU STRUCTURES EXCEEDING
6.0m DEPTH, CONTRACTOR TO PROVIDE FORM 15
CERTIFICATION FOR ACCEPTANCE BY COUNCIL
PRIOR TO CONSTRUCTION COMMENCING

S24/5

D/C

C

V

I

Y

I

REFER NOTE 12

CH 0.000 D 0.6350
CH 45.985 D 0.6350
LOT 5444 IL 8.35

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 2

Site Address:

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DRAWING TITLE
SEWER RETICULATION
LONGITUDINAL SECTIONS
SHEET 2 OF 10

D	19/07/22	SEWER UPDATED	JH	MG	
C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
C	31/01/22	NOTE 13 ADDED	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
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A	30/07/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES

HORZ: 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:	12/07/2022

Drawing No:
5941 ENG OPW2 611

Rev. No:
D

MAINTENANCE HOLE / SHAFT No.

MH / MS COVER TYPE

MH / MS TYPE

MH / MS DROP TYPE

LINE DEFLECTION & BRANCHES

INTERNAL CORROSION PROTECTION

PROPERTY CONNECTION TYPE

RIGSS STRUCTURE DROPS		RIGSS STRUCTURE LIDS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1	B	NON-TRAFFICABLE LID
W	OBLIQUE 45° "Y" JUNCTION SEQ DWG SEQ-SEW-1303-1	D	TRAFFICABLE LID
X	INTERNAL BACKDROP SEQ DWG SEQ-SEW-1303-1	C	COMPOSITE
Z	VERTICAL DROP JUNCTION STD DWG SEQ-SEW-1314-1		
		CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH	
		TRENCHSTOPS, BULKHEADS & CONCRETE ENCASEMENTS	

RIGSS STRUCTURE TYPES	
P3	1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH CONVERSION SLAB AND PRE-CAST BASE. INSTALL CLASS D 'COMPOSITE' COVER. SEQ STD DWG SEQ-SEW-1300-1
C	1500mm DIA. CAST IN-SITU MAINTENANCE HOLE INSTALL DUCTILE IRON CLASS D 'COMPOSITE' COVER. REFER SEQ STD DWG SEQ-SEW-1307-1. REFER NOTE 12
J1	TYPE "J1" MAINTENANCE SHAFT (3.0m MAXIMUM DEPTH TO IL) SEQ STD DWG SEQ-SEW-1314-2
BND	LONG RADIUS BEND (R3.0m) SEQ STD DWG SEQ-SEW-1314-3

RIGSS PROPERTY CONNECTION TYPES	
V	STRAIGHT THROUGH SEWER (250mm MAX. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
W	OBLIQUE 45° "Y" JUNCTION (250mm-600mm DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
X	INTERNAL BACKDROP (600mm MIN. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
Z	DROP JUNCTION TO DN300 RISER OF MAINTENANCE SHAFT SEQ STD DWG SEQ-SEW-1314-1 AND 1314-2

RIGSS GENERAL NOTES	
1	ALL uPVC SEWER PIPE TO BE CLASS SN8 INCLUDING ALL PROPERTY CONNECTIONS.
2	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
3	ALL BENDS TO BE LONG RADIUS BEND, 3.0m RADIUS. REFER DWG SEQ-SEW-1314-3
4	ALL MAINTENANCE SHAFTS (MS) SHALL HAVE 300mm# PVC RISERS, AND NOT EXCEED 3.0m DEPTH (FSL TO INVERT LEVEL).
5	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
6	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES TYPE P3. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
7	WHERE NOTED ON THE DRAWINGS, CONTRACTOR TO CONSTRUCT BRIDGING SLAB SPANNING THE SEWER TRENCH. REFER TYPICAL SECTIONS AND DETAILS ON DWG No. 5941 ENG OPW2 410
8	WHERE NOTED ON THE DRAWINGS, TRENCHSTOPS, BULKHEADS AND CONCRETE ENCASEMENTS TO BE INSTALLED IN ACCORDANCE WITH THE SEQ SEWER CODE.
9	ALL PROPERTY CONNECTIONS TO BE 150# uPVC CLASS SN8 UNLESS NOTED OTHERWISE.
10	DESIGN OF DEEP SEWER STRUCTURES GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2, AND PE LINING REQUIREMENTS. REFER ALSO NOTE 12.
11	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(1) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.
12	MAINTENANCE HOLES OVER 6.0m DEEP REQUIRE SPECIAL DESIGN & CERTIFICATION BY A REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ) AS PER SEQ STD DWG SEQ-SEW-1307-1
13	REFER TO ATTACHED PROTEST ENGINEERING FORM 15 DATED 21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP

DATUM RL 3.000

PROPERTY DESCRIPTION	PRIVATE LOT	PRIVATE LOT	PRIVATE LOT
PIPE SIZE (mm), CLASS	DN225 uPVC SN8	DN225 uPVC SN8	DN225 uPVC SN8
GRADE (1 IN X) CTR - CTR OF STRUCTURE	1 IN 300	1 IN 300	1 IN 300
LENGTH	118.375	25.500	76.359
EMBEDMENT TYPE	4	4	4
PIPE GRADE (%)	0.334%	0.333%	0.333%
DEPTH TO INVERT	5.566 5.544	3.956 3.876	3.924 3.841
INVERT LEVEL	8.511 8.531	8.926 9.006	9.091 9.174
FINISHED SURFACE LEVEL	14.075	12.882	13.015
EXISTING SURFACE LEVEL	18.070	12.907	12.616
CHAINAGE	1681.815	1800.190	1825.690

LINE 5

S26/5

S27/5

S28/5

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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, Beenleigh 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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 3 OF 10

C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
C	31/01/22	NOTE 13 ADDED	JH	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	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

HORZ: 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 OPW2 612 Rev. No: C

MAINTENANCE HOLE / SHAFT No.

S28/5

MH / MS COVER TYPE

D

MH / MS TYPE

J1

MH / MS DROP TYPE

V

LINE DEFLECTION & BRANCHES

I

INTERNAL CORROSION PROTECTION

Y

PROPERTY CONNECTION TYPE

I

RIGSS STRUCTURE DROPS

STRAIGHT THROUGH SEWER
SEQ DWG SEQ-SEW-1303-1

OBLIQUE 45° Y JUNCTION
SEQ DWG SEQ-SEW-1303-1

INTERNAL BACKDROP
SEQ DWG SEQ-SEW-1303-1

VERTICAL DROP JUNCTION
STD DWG SEQ-SEW-1314-1

RIGSS STRUCTURE LIDS

B NON-TRAFFICABLE LID

D TRAFFICABLE LID

C COMPOSITE

CONSTRUCT BRIDGING
STRUCTURE SPANNING
THE SEWER TRENCH

TRENCHSTOPS, BULKHEADS &
CONCRETE ENCASUREMENTS

RIGSS STRUCTURE TYPES

1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH
CONCRETE SLAB AND PRE-CAST BASE. INSTALL CLASS D
'COMPOSITE' COVER. SEQ STD DWG SEQ-SEW-1300-1

1500mm DIA. CAST-IN-SITU MAINTENANCE HOLE
INSTALL DUCTILE IRON CLASS D 'COMPOSITE' COVER.
REFER SEQ STD DWG SEQ-SEW-1307-1. REFER NOTE 12

TYPE 'J1' MAINTENANCE SHAFT (3.0m MAXIMUM DEPTH TO IL)
SEQ STD DWG SEQ-SEW-1314-2

LONG RADIUS BEND (R3.0m)
SEQ STD DWG SEQ-SEW-1314-3

RIGSS PROPERTY CONNECTION TYPES

STRAIGHT THROUGH SEWER (250mm MAX. DROP FOR 150#)
SEQ STD DWG SEQ-SEW-1303-1

OBLIQUE 45° Y JUNCTION (250mm-600mm DROP FOR 150#)
SEQ STD DWG SEQ-SEW-1303-1

INTERNAL BACKDROP (600mm MIN. DROP FOR 150#)
SEQ STD DWG SEQ-SEW-1303-1

DROP JUNCTION TO DN300 RISER OF MAINTENANCE SHAFT
SEQ STD DWG SEQ-SEW-1314-1 AND 1314-2

RIGSS GENERAL NOTES

1 ALL UPVC SEWER PIPE TO BE CLASS SN8 INCLUDING ALL
PROPERTY CONNECTIONS.

2 EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS
AND SEQ-SEW-1201-1

3 ALL BENDS TO BE LONG RADIUS BEND, 3.0m RADIUS.
REFER DWG SEQ-SEW-1314-3

4 ALL MAINTENANCE SHAFTS (MS) SHALL HAVE 300mm# PVC
RISERS, AND NOT EXCEED 3.0m DEPTH (FSL TO INVERT LEVEL).

5 CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS
PRIOR TO COMMENCEMENT OF PIPEWORK.

6 POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL
MAINTENANCE STRUCTURES TYPE P3. REFER LONGITUDINAL
SECTIONS. REFER ALSO SEQ-SEW-1407-1-A & 2-B

7 WHERE NOTED ON THE DRAWINGS, CONTRACTOR TO CONSTRUCT
BRIDGING SLAB SPANNING THE SEWER TRENCH. REFER TYPICAL
SECTIONS AND DETAILS ON DWG No. 5941 ENG OPW2 410

8 WHERE NOTED ON THE DRAWINGS, TRENCHSTOPS, BULKHEADS
AND CONCRETE ENCASUREMENTS TO BE INSTALLED IN
ACCORDANCE WITH THE SEQ SEWER CODE.

9 ALL PROPERTY CONNECTIONS TO BE 150# uPVC CLASS SN8
UNLESS NOTED OTHERWISE.

10 DESIGN OF DEEP SEWER STRUCTURES GREATER THAN 5 METRES
TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL
ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE
4.6.2.2, AND PE LINING REQUIREMENTS. REFER ALSO NOTE 12.

11 ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE
SPECIFIED TO BE COMPOSITE LIDS AND FRAMES
(NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL
PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(1)
TO (VI) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.

12 MAINTENANCE HOLES OVER 6.0m DEEP REQUIRE SPECIAL DESIGN
& CERTIFICATION BY A REGISTERED PROFESSIONAL ENGINEER OF
QUEENSLAND (RPEQ) AS PER SEQ STD DWG SEQ-SEW-1307-1

13 REFER TO ATTACHED PROTEST ENGINEERING FORM IS DATED
21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP

DATUM RL 3.000

PROPERTY DESCRIPTION

DRAINAGE RESERVE

DRAINAGE RESERVE

PIPE SIZE (mm), CLASS

DN225
uPVC SN8DN225
uPVC SN8DN150
uPVC SN8

GRADE (1 IN X) CTR - CTR OF STRUCTURE

1 IN 300

1 IN 300

1 IN 180

LENGTH

120.000

57.380

21.571

EMBEDMENT TYPE

3

3

3

PIPE GRADE (%)

0.333%

0.333%

0.556%

DEPTH TO INVERT

3.560

3.540

3.140

3.120

2.928

2.608

2.884

INVERT LEVEL

9.428

9.448

9.848

9.868

10.059

10.379

10.499

FINISHED SURFACE LEVEL

12.989

12.988

12.987

13.383

EXISTING SURFACE LEVEL

10.202

10.949

10.718

10.971

CHAINAGE

1902.050

2022.051

2079.431

2101.001

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 14 September 2022

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning PoliciesCONSTRUCT BRIDGING STRUCTURE
SPANNING THE SEWER TRENCH

planning | environment | landscape | engineering | survey

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Gold Coast & Logan | 170 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

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ROAD, STAPYLTON QLD 4207THIS 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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DRAWING TITLE
SEWER RETICULATION
LONGITUDINAL SECTIONS
SHEET 4 OF 10

Issue	Date	Description	DRN	CHK
C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG
C	31/01/22	NOTE 13 ADDED	JH	MG
B	29/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
B	19/08/21	INFORMATION REQUEST RESPONSE	LAB	MG
A	30/07/21	ORIGINAL ISSUE	LAB	MG

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 OPW2 613

Rev. No:

C

MAINTENANCE HOLE / SHAFT No.

S31/5

MH / MS COVER TYPE

D/C

MH / MS TYPE

P3

MH / MS DROP TYPE

V

LINE DEFLECTION & BRANCHES

I

INTERNAL CORROSION PROTECTION

Y

PROPERTY CONNECTION TYPE

I

RIGSS STRUCTURE DROPS		RIGSS STRUCTURE LIDS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1	B	NON-TRAFFICABLE LID
D		D	TRAFFICABLE LID
W	OBLIQUE 45° "Y" JUNCTION SEQ DWG SEQ-SEW-1303-1	C	COMPOSITE
X	INTERNAL BACKDROP SEQ DWG SEQ-SEW-1303-1	CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH	
Z	VERTICAL DROP JUNCTION STD DWG SEQ-SEW-1314-1	TRENCHSTOPS, BULKHEADS & CONCRETE ENCASEMENTS	

RIGSS STRUCTURE TYPES	
P3	1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH CONVERSION SLAB AND PRE-CAST BASE. INSTALL CLASS D 'COMPOSITE' COVER. SEQ STD DWG SEQ-1300-1
C	1500mm DIA. CAST-IN-SITU MAINTENANCE HOLE INSTALL DUCTILE IRON CLASS D 'COMPOSITE' COVER. REFER SEQ STD DWG SEQ-SEW-1307-1. REFER NOTE 12
J1	TYPE "J1" MAINTENANCE SHAFT (3.0m MAXIMUM DEPTH TO IL) SEQ STD DWG SEQ-SEW-1314-2
BND	LONG RADIUS BEND (R3.0m) SEQ STD DWG SEQ-SEW-1314-3

RIGSS PROPERTY CONNECTION TYPES	
V	STRAIGHT THROUGH SEWER (250mm MAX. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
W	OBLIQUE 45° "Y" JUNCTION (250mm-600mm DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
X	INTERNAL BACKDROP (600mm MIN. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
Z	DROP JUNCTION TO DN300 RISER OF MAINTENANCE SHAFT SEQ STD DWG SEQ-SEW-1314-1 AND 1314-2

RIGSS GENERAL NOTES	
1	ALL uPVC SEWER PIPE TO BE CLASS SN8 INCLUDING ALL PROPERTY CONNECTIONS.
2	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
3	ALL BENDS TO BE LONG RADIUS BEND, 3.0m RADIUS. REFER DWG SEQ-SEW-1314-3
4	ALL MAINTENANCE SHAFTS (MS) SHALL HAVE 300mm# PVC RISERS, AND NOT EXCEED 3.0m DEPTH (FSL TO INVERT LEVEL).
5	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
6	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES TYPE P3. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
7	WHERE NOTED ON THE DRAWINGS, CONTRACTOR TO CONSTRUCT BRIDGING SLAB SPANNING THE SEWER TRENCH. REFER TYPICAL SECTIONS AND DETAILS ON DWG No. 5941 ENG OPW2 410
8	WHERE NOTED ON THE DRAWINGS, TRENCHSTOPS, BULKHEADS AND CONCRETE ENCASEMENTS TO BE INSTALLED IN ACCORDANCE WITH THE SEQ SEWER CODE.
9	ALL PROPERTY CONNECTIONS TO BE 150# uPVC CLASS SN8 UNLESS NOTED OTHERWISE.
10	DESIGN OF DEEP SEWER STRUCTURES GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2, AND PE LINING REQUIREMENTS. REFER ALSO NOTE 12.
11	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(1) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.
12	MAINTENANCE HOLES OVER 6.0m DEEP REQUIRE SPECIAL DESIGN & CERTIFICATION BY A REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ) AS PER SEQ STD DWG SEQ-SEW-1307-1
13	REFER TO ATTACHED PROTEST ENGINEERING FORM 15 DATED 21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP

DATUM RL 3.000

PROPERTY DESCRIPTION

DRAINAGE RESERVE

DRAINAGE RESERVE

PIPE SIZE (mm), CLASS

DN150
uPVC SN8

DN150
uPVC SN8

GRADE (1 IN X) CTR - CTR OF STRUCTURE

1 IN 180

1 IN 180

LENGTH

120.000

120.000

EMBEDMENT TYPE

3

3

PIPE GRADE (%)

0.556%

0.556%

DEPTH TO INVERT

2.864

3.183

3.615

INVERT LEVEL

10.499

11.186

11.873

FINISHED SURFACE LEVEL

13.383

14.369

15.488

EXISTING SURFACE LEVEL

8.971

10.046

11.074

CHAINAGE

2101.001

2221.001

2341.001

LINE 5

S32/5

D/C

P3

V

LOT 201

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LINE 5

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

Drawing No:	Rev. No:
5941 ENG OPW2 615	D

LINE 7

M. H. H. H.

G:\Projects\5941\ENGINEERING\Acad\CIVIL WORKS STAGE 2\Current\5941 ENG OPW2 610.dwg

MAINTENANCE HOLE / SHAFT No.

S9/7

MH / MS COVER TYPE	D/C
MH / MS TYPE	P3
MH / MS DROP TYPE	V
LINE DEFLECTION & BRANCHES	7
INTERNAL CORROSION PROTECTION	Y
PROPERTY CONNECTION TYPE	I

RIGSS STRUCTURE DROPS	RIGSS STRUCTURE LIDS
V STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1	B NON-TRAFFICABLE LID
W OBLIQUE 45° "Y" JUNCTION SEQ DWG SEQ-SEW-1303-1	D TRAFFICABLE LID
X INTERNAL BACKDROP SEQ DWG SEQ-SEW-1303-1	C COMPOSITE
Z VERTICAL DROP JUNCTION STD DWG SEQ-SEW-1314-1	

CONSTRUCT BRIDGING
STRUCTURE SPANNING
THE SEWER TRENCH

TRENCHSTOPS, BULKHEADS &
CONCRETE ENCASEMENTS

RIGSS STRUCTURE TYPES	
P3	1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH CONVERSION SLAB AND PRE-CAST BASE. INSTALL CLASS D 'COMPOSITE' COVER. SEQ STD DWG SEQ-SEW-1300-1
C	1500mm DIA. CAST-IN-SITU MAINTENANCE HOLE INSTALL DUCTILE IRON CLASS D 'COMPOSITE' COVER. REFER SEQ STD DWG SEQ-SEW-1307-1. REFER NOTE 12
J1	TYPE "J1" MAINTENANCE SHAFT (3.0m MAXIMUM DEPTH TO IL) SEQ STD DWG SEQ-SEW-1314-2
BND	LONG RADIUS BEND (R3.0m) SEQ STD DWG SEQ-SEW-1314-3

RIGSS PROPERTY CONNECTION TYPES	
V	STRAIGHT THROUGH SEWER (250mm MAX. DROP FOR 150ø) SEQ STD DWG SEQ-SEW-1303-1
W	OBLIQUE 45° "Y" JUNCTION (250mm-600mm DROP FOR 150ø) SEQ STD DWG SEQ-SEW-1303-1
X	INTERNAL BACKDROP (600mm MIN. DROP FOR 150ø) SEQ STD DWG SEQ-SEW-1303-1
Z	DROP JUNCTION TO DN300 RISER OF MAINTENANCE SHAFT SEQ STD DWG SEQ-SEW-1314-1 AND 1314-2

RIGSS GENERAL NOTES	
1	ALL uPVC SEWER PIPE TO BE CLASS SN8 INCLUDING ALL PROPERTY CONNECTIONS.
2	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
3	ALL BENDS TO BE LONG RADIUS BEND, 3.0m RADIUS. REFER DWG SEQ-SEW-1314-3
4	ALL MAINTENANCE SHAFTS (MS) SHALL HAVE 300mmø PVC RISERS, AND NOT EXCEED 3.0m DEPTH (FSL TO INVERT LEVEL).
5	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
6	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES TYPE P3. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
7	WHERE NOTED ON THE DRAWINGS, CONTRACTOR TO CONSTRUCT BRIDGING SLAB SPANNING THE SEWER TRENCH. REFER TYPICAL SECTIONS AND DETAILS ON DWG No. 5941 ENG OPW2 410
8	WHERE NOTED ON THE DRAWINGS, TRENCHSTOPS, BULKHEADS AND CONCRETE ENCASEMENTS TO BE INSTALLED IN ACCORDANCE WITH THE SEQ SEWER CODE.
9	ALL PROPERTY CONNECTIONS TO BE 150ø uPVC CLASS SN8 UNLESS NOTED OTHERWISE.
10	DESIGN OF DEEP SEWER STRUCTURES GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2, AND PE LINING REQUIREMENTS. REFER ALSO NOTE 12.
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12	MAINTENANCE HOLES OVER 6.0m DEEP REQUIRE SPECIAL DESIGN & CERTIFICATION BY A REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ) AS PER SEQ STD DWG SEQ-SEW-1307-1
13	REFER TO ATTACHED PROTEST ENGINEERING FORM 15 DATED 21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP

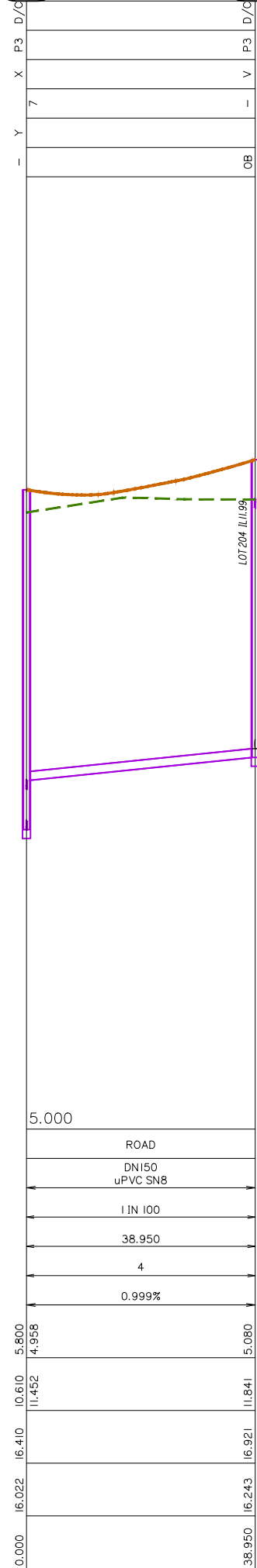
DATUM RL 10.000

PROPERTY DESCRIPTION	ROAD	
PIPE SIZE (mm), CLASS	DN150 uPVC SN8	
GRADE (1 IN X) CTR - CTR OF STRUCTURE	1 IN 67	
LENGTH	111.820	
EMBEDMENT TYPE	4	
PIPE GRADE (%)	1.502%	
DEPTH TO INVERT	4.972 1.875	3.188
INVERT LEVEL	12.193 15.292	16.970
FINISHED SURFACE LEVEL	17.165	20.158
EXISTING SURFACE LEVEL	20.872	24.174
CHAINAGE	0.000	111.820

LINE 8

SI/8

S4/7

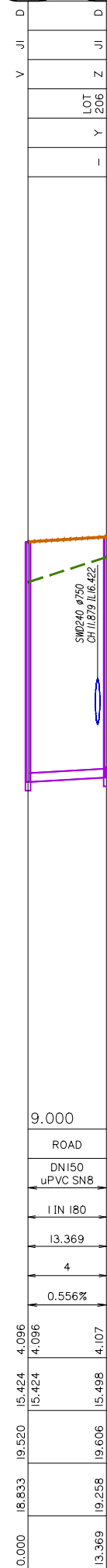


LINE 9

SI/9

SI/10

S2/10



LINE 10

Any connection / disconnection to the existing sewerage network will be at the applicant's cost. Prior to the connection / disconnection taking place, the applicant must obtain written approval from Water and Waste.

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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

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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DRAWING TITLE

SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 9 OF 10

D	19/07/22	SEWER UPDATED	LAB	MG
C	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG
C	31/01/22	NOTE 13 ADDED	JH	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	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

HORZ: 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:	12/07/2022

Drawing No: 5941 ENG OPW2 618 Rev. No: D

MAINTENANCE HOLE / SHAFT No.

MH / MS COVER TYPE

MH / MS TYPE

MH / MS DROP TYPE

LINE DEFLECTION & BRANCHES

INTERNAL CORROSION PROTECTION

PROPERTY CONNECTION TYPE

RIGSS STRUCTURE DROPS		RIGSS STRUCTURE LIDS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1	B	NON-TRAFFICABLE LID
W	OBLIQUE 45° "Y" JUNCTION SEQ DWG SEQ-SEW-1303-1	D	TRAFFICABLE LID
X	INTERNAL BACKDROP SEQ DWG SEQ-SEW-1303-1	C	COMPOSITE
Z	VERTICAL DROP JUNCTION STD DWG SEQ-SEW-1314-1		

CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH

TRENCHSTOPS, BULKHEADS & CONCRETE ENCASEMENTS

RIGSS STRUCTURE TYPES	
P3	1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH CONVERSION SLAB AND PRE-CAST BASE. INSTALL CLASS D 'COMPOSITE' COVER. SEQ STD DWG SEQ-SEW-1300-1
C	1500mm DIA. CAST IN-SITU MAINTENANCE HOLE. INSTALL DUCTILE IRON CLASS D 'COMPOSITE' COVER. REFER SEQ STD DWG SEQ-SEW-1307-1. REFER NOTE 12
J1	TYPE "J1" MAINTENANCE SHAFT (3.0m MAXIMUM DEPTH TO IL) SEQ STD DWG SEQ-SEW-1314-2
BND	LONG RADIUS BEND (R3.0m) SEQ STD DWG SEQ-SEW-1314-3

RIGSS PROPERTY CONNECTION TYPES	
V	STRAIGHT THROUGH SEWER (250mm MAX. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
W	OBLIQUE 45° "Y" JUNCTION (250mm-600mm DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
X	INTERNAL BACKDROP (600mm MIN. DROP FOR 150#) SEQ STD DWG SEQ-SEW-1303-1
Z	DROP JUNCTION TO DN300 RISER OF MAINTENANCE SHAFT SEQ STD DWG SEQ-SEW-1314-1 AND 1314-2

RIGSS GENERAL NOTES	
1	ALL uPVC SEWER PIPE TO BE CLASS SN8 INCLUDING ALL PROPERTY CONNECTIONS.
2	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
3	ALL BENDS TO BE LONG RADIUS BEND, 3.0m RADIUS. REFER DWG SEQ-SEW-1314-3
4	ALL MAINTENANCE SHAFTS (MS) SHALL HAVE 300mmØ PVC RISERS, AND NOT EXCEED 3.0m DEPTH (FSL TO INVERT LEVEL).
5	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
6	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES TYPE P3. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
7	WHERE NOTED ON THE DRAWINGS, CONTRACTOR TO CONSTRUCT BRIDGING SLAB SPANNING THE SEWER TRENCH. REFER TYPICAL SECTIONS AND DETAILS ON DWG No. 5941 ENG OPW2 410
8	WHERE NOTED ON THE DRAWINGS, TRENCHSTOPS, BULKHEADS AND CONCRETE ENCASEMENTS TO BE INSTALLED IN ACCORDANCE WITH THE SEQ SEWER CODE.
9	ALL PROPERTY CONNECTIONS TO BE 150# uPVC CLASS SN8 UNLESS NOTED OTHERWISE.
10	DESIGN OF DEEP SEWER STRUCTURES GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2, AND PE LINING REQUIREMENTS. REFER ALSO NOTE 12.
11	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES. (NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(1) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.
12	MAINTENANCE HOLES OVER 6.0m DEEP REQUIRE SPECIAL DESIGN & CERTIFICATION BY A REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND (RPEQ) AS PER SEQ STD DWG SEQ-SEW-1307-1
13	REFER TO ATTACHED PROTEST ENGINEERING FORM 15 DATED 21/01/22 FOR STRUCTURES GREATER THAN 6m DEEP

DATUM RL

PROPERTY DESCRIPTION	ROAD/LOT	ROAD/LOT
PIPE SIZE (mm), CLASS	DN150 uPVC SN8	DN150 uPVC SN8
GRADE (1 IN X) CTR - CTR OF STRUCTURE	1 IN 100	1 IN 100
LENGTH	5.991	7.564
EMBEDMENT TYPE	4	4
PIPE GRADE (%)	1.000%	1.000%
DEPTH TO INVERT	3.183 2.919	3.862 3.842
INVERT LEVEL	11.186 11.450	11.510 11.530
FINISHED SURFACE LEVEL	14.369	15.327
EXISTING SURFACE LEVEL	10.046	10.173
CHAINAGE	0.000 5.991 13.554	0.000 5.987 13.554

LOT 201

LOT 202

LOT 204

LOT 205

LOT 206

LOT CP

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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SEWER RETICULATION LONGITUDINAL SECTIONS SHEET 10 OF 10

Issue	Date	Description	LAB	MG	DRN	CHK
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C	31/01/22	NOTE 13 ADDED	JH	MG		
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A	30/07/21	ORIGINAL ISSUE	LAB	MG		

SCALE IN METRES

HORZ: 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:	12/07/2022

Drawing No:
5941 ENG OPW2 619

Rev. No:
D

205

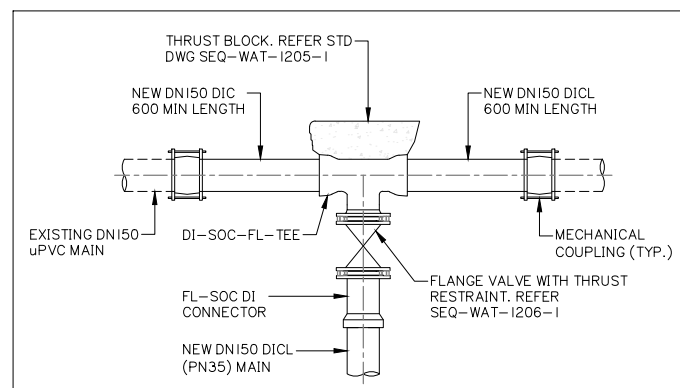
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PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2022/341

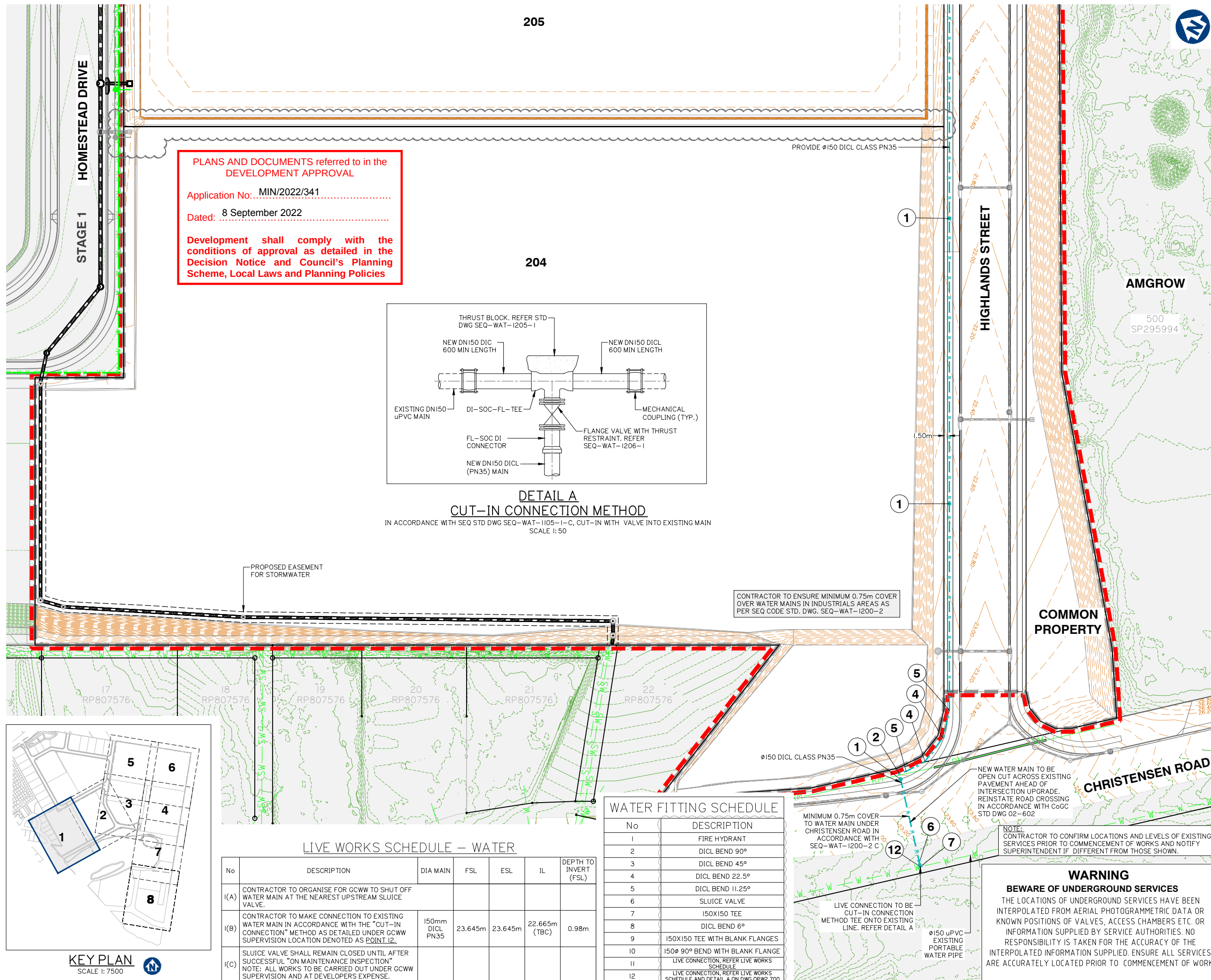
Dated: 8 September 2022

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DETAIL A CUT-IN CONNECTION METHOD

IN ACCORDANCE WITH SEQ STD DWG SEQ-WAT-1105-1-C, CUT-IN WITH VALVE INTO EXISTING MAIN
SCALE 1:50



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.					

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	150° 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

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
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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

WATER RETICULATION
LAYOUT PLAN SHEET 1 OF 4

Issue	Date	Description	LAB	MG	DRN	CHK
C	19/07/22	LOT BOUNDARY AND LOT NUMBER UPDATED	LAB	MG		
B	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG		
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
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:

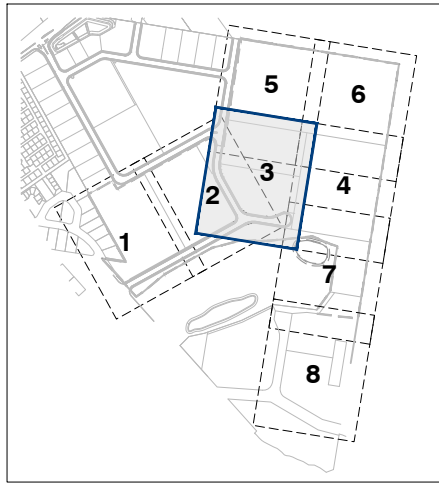
Date: 05/07/2022

Drawing No:
5941 ENG OPW2 700

Rev. No:
C

KEY PLAN
SCALE 1:7500





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.					
I(B)	CONTRACTOR TO CONNECT TO EXISTING LIVE Ø150 WATER MAIN AT EXISTING BLANK FLANGE LOCATION DENOTED AS POINT 11.	150mm DI CL	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.					

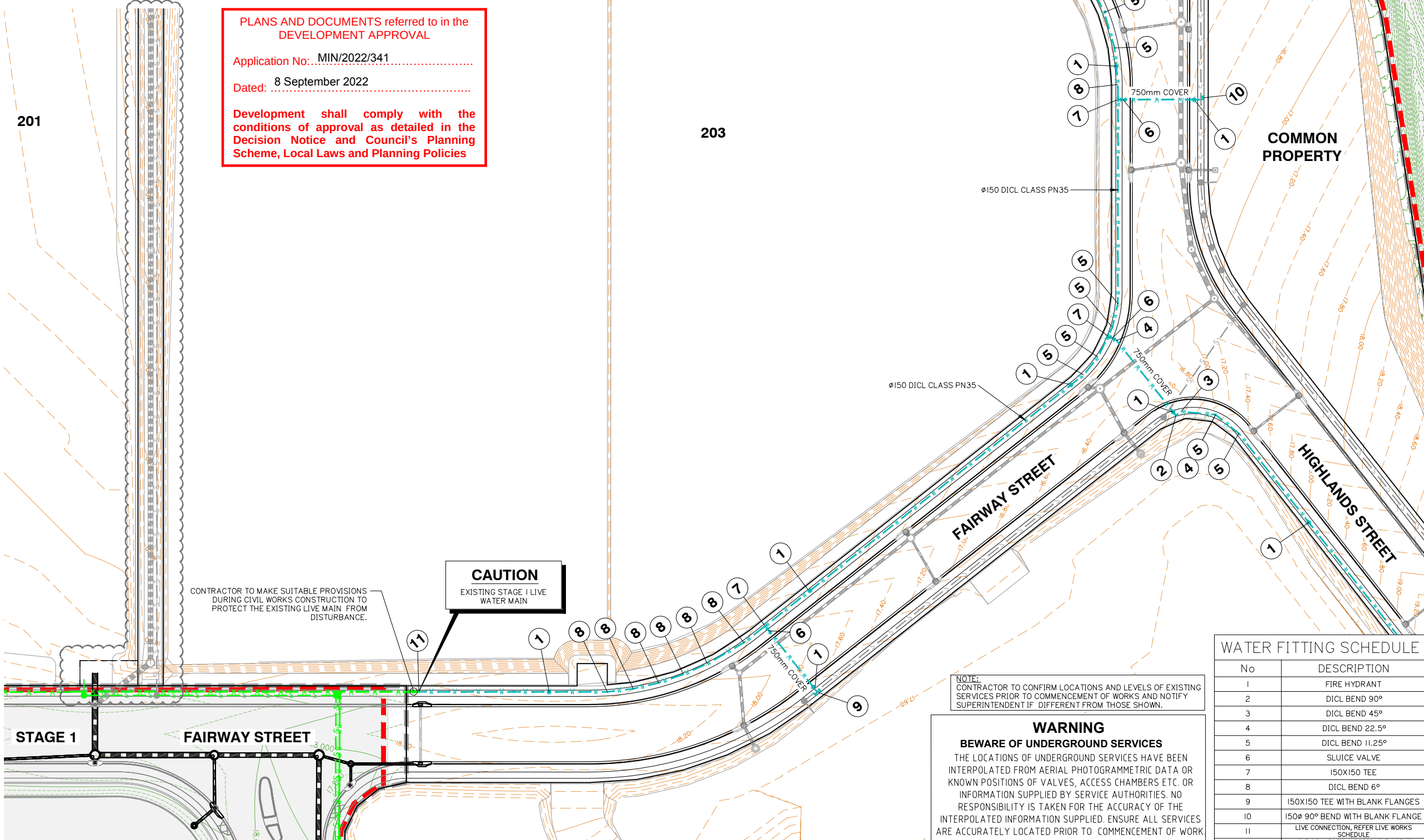
CONTRACTOR TO ENSURE MINIMUM 0.75m COVER OVER WATER MAINS IN INDUSTRIALS AREAS AS PER SEQ CODE STD. DWG. SEQ-WAT-1200-2

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2022/341

Dated: 8 September 2022

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FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 701

WATER RETICULATION LAYOUT PLAN SHEET 2 OF 4

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

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.

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
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DRAWING TITLE

WATER RETICULATION
LAYOUT PLAN SHEET 2 OF 4

Rev	Date	Description	LAB	MG
C	19/07/22	LOT NUMBER UPDATED	LAB	MG
B	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION	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

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

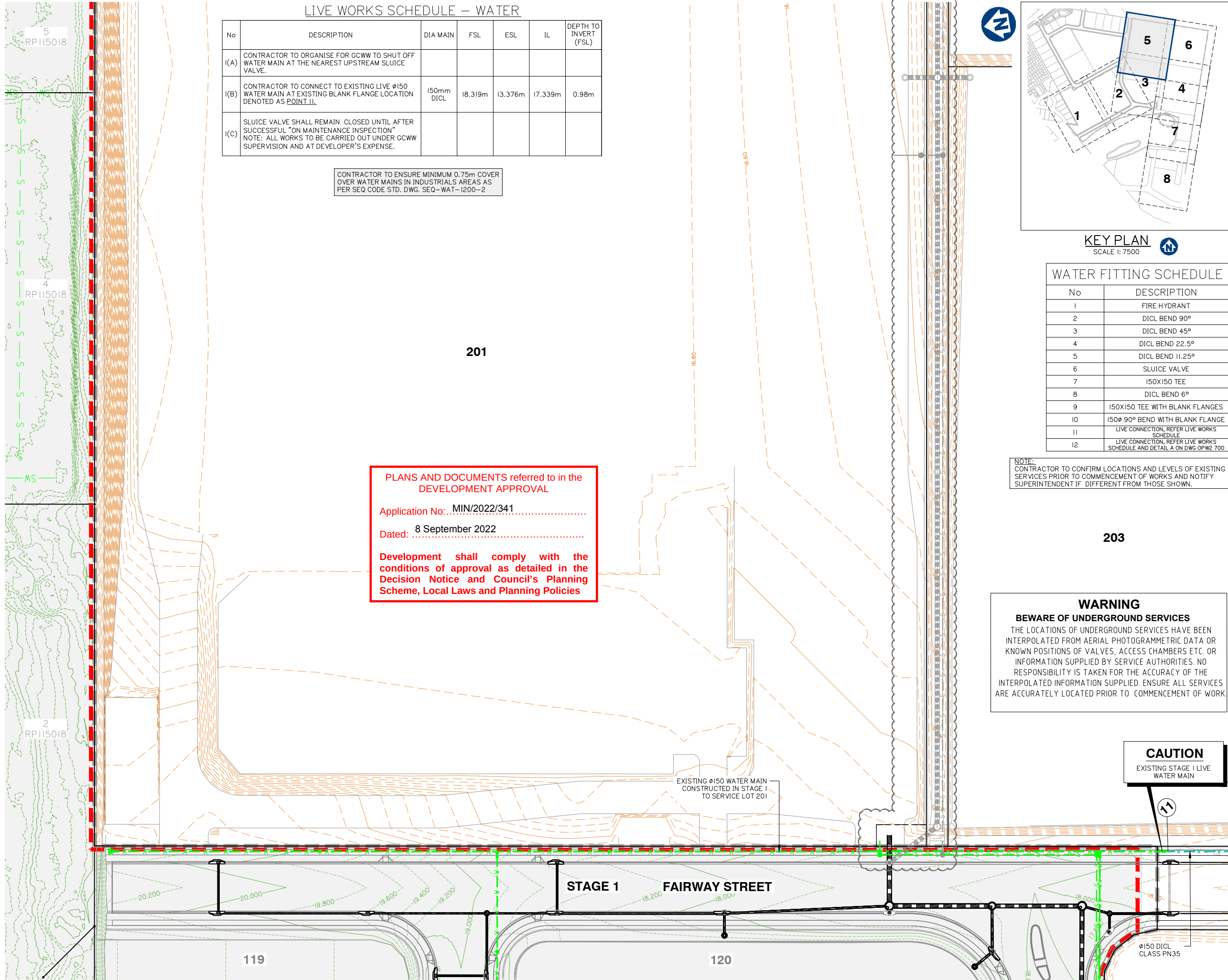
RPEQ: 16939

Signed:

Date: 05/07/2022

Drawing No:
5941 ENG OPW2 702

Rev. No:
C



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 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.					

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

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No.: MIN/2022/341

Dated: 8 September 2022

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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 702

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

WARNING

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CAUTION

EXISTING STAGE 1 LIVE WATER MAIN

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 702

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

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STAGE 2

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DRAWING TITLE

WATER RETICULATION
LAYOUT PLAN SHEET 4 OF 4

Issue	Date	Description	LAB	MG	DRN	CHK
C	19/07/22	LOT BOUNDARY UPDATED	LAB	MG		
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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: 05/07/2022

Drawing No:
5941 ENG OPW2 703

Rev. No:
C

Client:

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DRAWING TITLE
WATER RETICULATION
TYPICAL DETAILS SHEET 1
OF 2

A	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
A	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
A	10/09/21	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 710

Rev. No:
A

THRUST BLOCK LENGTH

PIPE DN.	FITTING	MAX. THRUST IN KN	THRUST BLOCK HEIGHT	STIFF CLAY 50 kPa.	VERY STIFF CLAY SANDY LOAM 100kPa.	SAND & GRAVEL HARDCLAY 150kPa.	SAND & GRAVEL CEMENTED WITH CLAY 200kPa.	ROCK 240kPa
100	90° BEND	19.8	400	1000	•	•	•	•
	60° BEND	14.0		700	•	•	•	•
	45° BEND	10.7		•	•	•	•	•
	22.5° BEND	5.5		•	•	•	•	•
	11.25° BEND	2.7		•	•	•	•	•
	TEE OR CLOSED END	14.0		700	•	•	•	•
150	90° BEND	41.7	450	1860	930	•	•	•
	60° BEND	29.5		1320	660	•	•	•
	45° BEND	22.6		1000	•	•	•	•
	22.5° BEND	11.5		•	•	•	•	•
	11.25° BEND	5.8		•	•	•	•	•
	TEE OR CLOSED END	29.5		1300	660	•	•	•
200	90° BEND	71.7	550	*	1300	870	650	•
	60° BEND	50.7		1850	920	•	•	•
	45° BEND	38.8		1410	700	•	•	•
	22.5° BEND	19.8		720	•	•	•	•
	11.25° BEND	9.9		•	•	•	•	•
	TEE OR CLOSED END	50.7		1850	920	•	•	•
225	90° BEND	89.4	600	*	1500	1000	750	•
	60° BEND	63.2		2110	1060	700	•	•
	45° BEND	48.4		1620	810	•	•	•
	22.5° BEND	24.6		830	•	•	•	•
	11.25° BEND	12.4		•	•	•	•	•
	TEE OR CLOSED END	63.2		210	1060	700	•	•
250	90° BEND	109.0	650	*	1700	1120	840	700
	60° BEND	77.1		2400	1200	800	•	•
	45° BEND	59.0		1820	910	•	•	•
	22.5° BEND	30.1		930	•	•	•	•
	11.25° BEND	15.1		•	•	•	•	•
	TEE OR CLOSED END	77.1		2400	1200	800	•	•
300	90° BEND	158.6	700	*	2270	1510	1140	950
	60° BEND	112.2		*	1600	1070	800	670
	45° BEND	85.9		2453	1230	820	•	•
	22.5° BEND	43.8		1250	630	•	•	•
	11.25° BEND	22.0		630	•	•	•	•
	TEE OR CLOSED END	112.2		*	1600	1070	800	750

THRUST BLOCK DIMENSIONS - 1200kPa

- INDICATES BLOCK LENGTH OF 600
- * = SPECIAL DESIGN

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

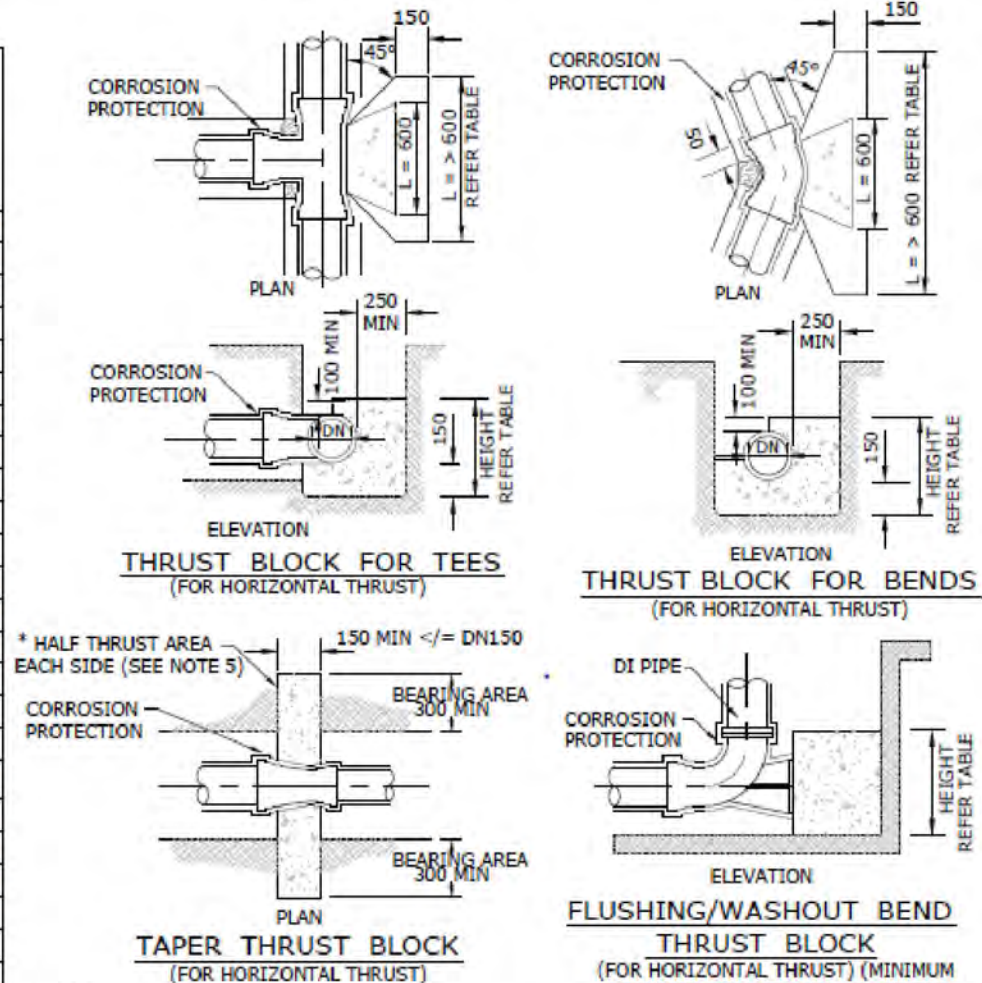
Application No: MIN/2022/341

Dated: 8 September 2022

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

THRUST BLOCK LENGTH

PIPE DN.	FITTING	MAX. THRUST IN KN	THRUST BLOCK HEIGHT	STIFF CLAY 50 kPa.	VERY STIFF CLAY SANDY LOAM 100kPa.	SAND & GRAVEL HARDCLAY 150kPa.	SAND & GRAVEL CEMENTED WITH CLAY 200kPa.	ROCK 240kPa
375	90° BEND	241.9	800	*	*	2220	1510	1260
	60° BEND	171.0		*	2140	1430	1070	890
	45° BEND	130.9		*	1640	1090	820	680
	22.5° BEND	66.7		1670	840	•	•	•
	11.25° BEND	33.5		840	•	•	•	•
	TEE OR CLOSED END	171.0		*	2140	1430	1070	890
450	90° BEND	342.6	900	*	*	2540	1900	1590
	60° BEND	242.3		*	2690	1800	1350	1120
	45° BEND	185.4		*	2060	1375	1030	860
	22.5° BEND	94.5		2100	1050	700	•	•
	11.25° BEND	47.5		1060	•	•	•	•
	TEE OR CLOSED END	242.3		*	2690	1800	1350	1120
500	90° BEND	418	1000	*	*	2790	2090	1740
	60° BEND	295.6		*	*	1970	1480	1230
	45° BEND	226.2		*	2260	1510	1130	940
	22.5° BEND	115.3		2310	1150	770	•	•
	11.25° BEND	58.0		1160	•	•	•	•
	TEE OR CLOSED END	295.5		*	*	1970	1480	1230
600	90° BEND	593	1100	*	*	*	2700	2250
	60° BEND	419		*	*	2540	1910	1590
	45° BEND	320		*	2920	1950	1460	1220
	22.5° BEND	164		2980	1490	990	750	620
	11.25° BEND	82.2		1500	750	•	•	•
	TEE OR CLOSED END	419		*	*	2540	1910	1590
750	90° BEND	909	1300	*	*	*	*	2920
	60° BEND	643		*	*	*	2480	2060
	45° BEND	492		*	*	2530	1890	1580
	22.5° BEND	251		*	1930	1290	970	810
	11.25° BEND	126.1		1940	970	650	•	•
	TEE OR CLOSED END	643		*	*	*	2480	2060
900 (Ø960 MSCL)	90° BEND	1,228	1500	*	*	*	*	3420
	60° BEND	868		*	*	*	2900	2420
	45° BEND	664		*	*	2960	2220	1850
	22.5° BEND	339		*	2260	1510	1130	940
	11.25° BEND	170		2270	1140	760	•	•
	TEE OR CLOSED END	868		*	*	*	3300	2650



NOTES

- ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
- CAST THE THRUST AREA OF ALL THRUST BLOCKS AGAINST A CLEAN FACE OF UNDISTURBED NATURAL SOIL. SOIL CLASSIFICATIONS USED ON THIS DRAWING ARE EXPLAINED IN SEQ-WAT-1200-1. DO NOT USE STANDARD THRUST BLOCKS AS SPECIFIED IN THIS DRAWING IN SOILS WITH < 50kPa BEARING CAPACITY EG;
 - VERY SOFT, SOFT OR FIRM CLAY.
 - LOOSE CLEAN SAND,
 - UNCOMPACTED FILL OR REFUSE.A GEOTECHNICAL ASSESSMENT AND INDIVIDUAL DESIGN IS REQUIRED FOR THESE SOILS.
- THRUST BLOCKS NOT TO INTERFERE WITH OTHER SERVICES OR BE LOCATED OUTSIDE THE WATER MAIN ALLOCATION WITHOUT WATER AGENCY APPROVAL.
- ALL CONCRETE GRADE N20. TABLE OF DIMENSIONS BASED ON REQUIRED TEST PRESSURE OF 1200kPa AND ACTUAL DI CL PIPE DIAMETERS.
- THE MINIMUM THRUST AREA FOR TAPER THRUST BLOCKS TO BE EQUAL TO THE DIFFERENCE BETWEEN THE THRUST AREAS FOR TEES OR CLOSED ENDS OF EQUIVALENT DIAMETER TO THOSE EACH SIDE OF TAPER. THE DETAIL SHOWN IS FOR < OR = DN150 MAINS. FOR LARGER MAINS, THE TAPER THRUST BLOCK SHALL BE REINFORCED AND OF A SIZE AS SHOWN IN SEQ-WAT-1206-1.
- FOR DOWNWARD VERTICAL THRUST, THE ALLOWABLE BEARING PRESSURES FOR VARIOUS SOILS MAY BE TAKEN AS TWICE THAT FOR HORIZONTAL THRUST SHOWN.
- WHEN POURING CONCRETE AGAINST FITTINGS PLACE A MEMBRANE OF POLYETHYLENE, PVC OR FELT BETWEEN THE FITTING AND CONCRETE TO PREVENT DAMAGE TO THE FITTING. PIPE JOINTS TO BE CLEAR OF CONCRETE.
- CONCRETE THRUST BLOCK ANCHORS FOR VALVES TO BE AS DETAILED ON SEQ-WAT-1205-1.

IN ACCORDANCE WITH SEQ-WAT-1205-1

A	22/04/22	ISSUED FOR CONSTRUCTION	LAB	MG	
A	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
A	10/09/21	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

Application No: MIN/2022/341

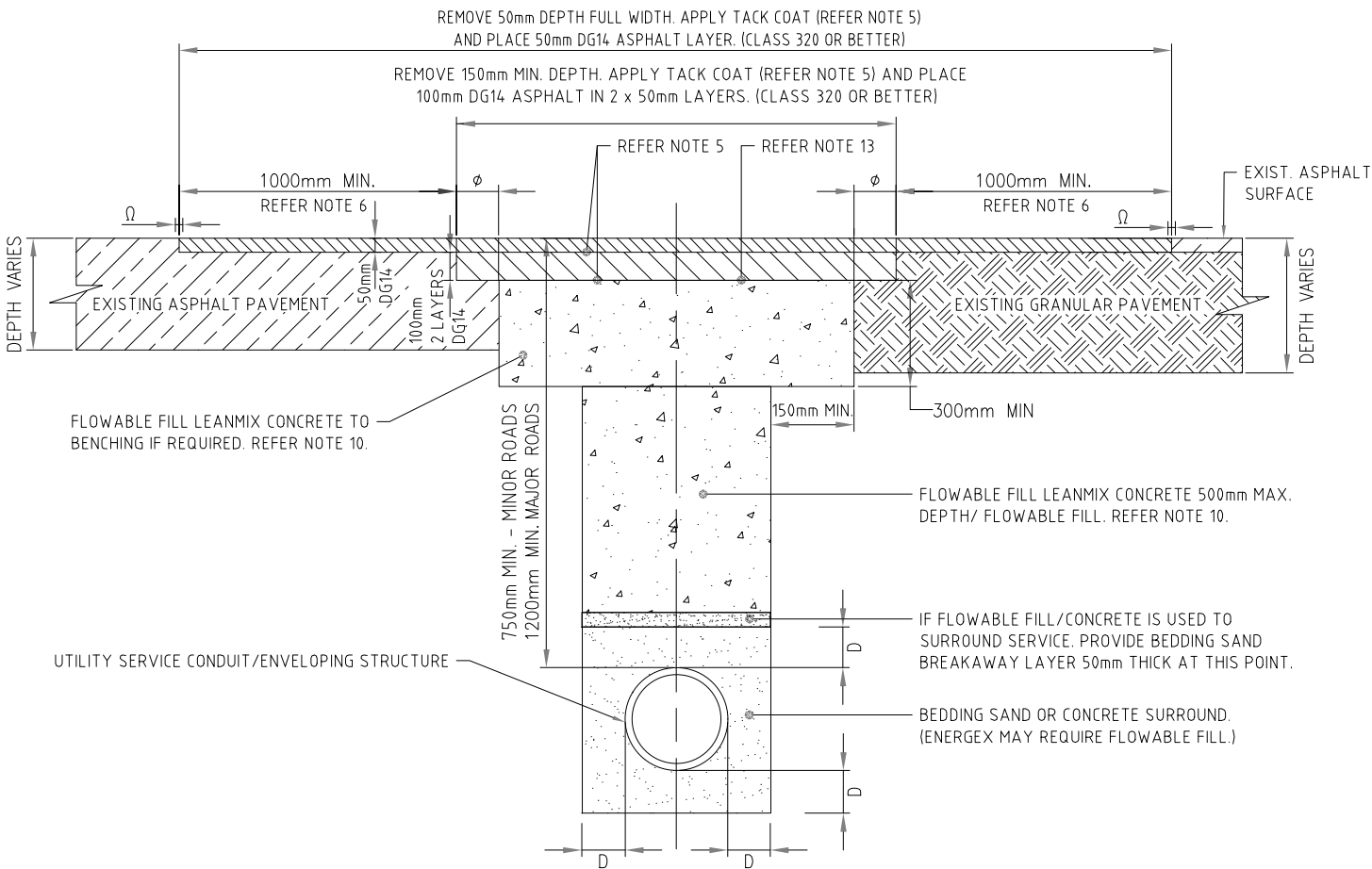
Dated: 8 September 2022

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. 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.

IN ACCORDANCE WITH CoGC STD DWG 02-602



LEGEND

- 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).

205

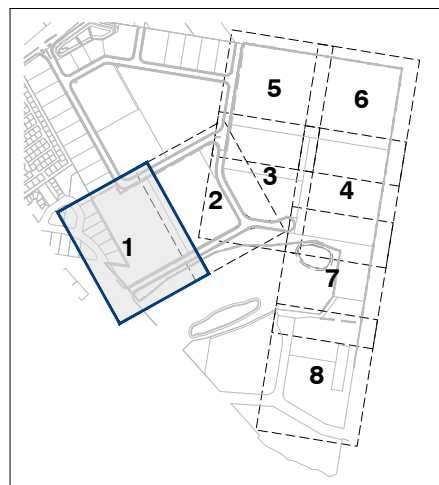
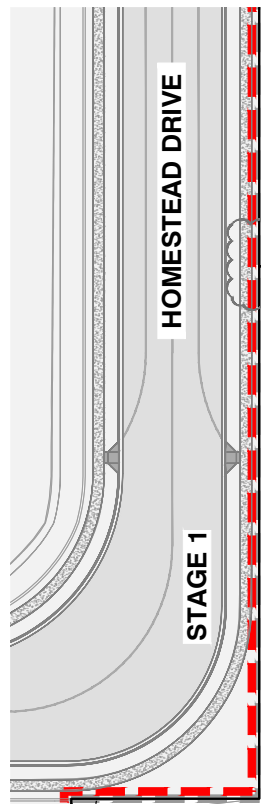
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PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No...MIN/2022/341

Dated: 8 September 2022

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



LINEMARKING LEGEND

		WIDTH (mm)	
		MINIMUM	PREFERRED
DIVIDING LINE – MDL		100	100
EDGE LINE – EL		100	150
BROKEN LINE LANE – BL		100	100
CONTINUITY LINE – CL		200	200
GIVE WAY LINE GWL		300	300

LINEMARKING AND SIGNAGE PLAN SHEET 1 OF 3



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 LINEMARKING AND SIGNAGE PLAN SHEET 1 OF 3

Issue	Date	Description	LAB	MG	DRN	CHK
E	19/07/22	LOT NUMBER, LOT BOUNDARY UPDATED	LAB	MG		
D	28/03/22	LINEMARKING AMENDED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	25/11/21	DIVIDING LINEMARKING ADDED	LAB	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		

SCALE IN METRES



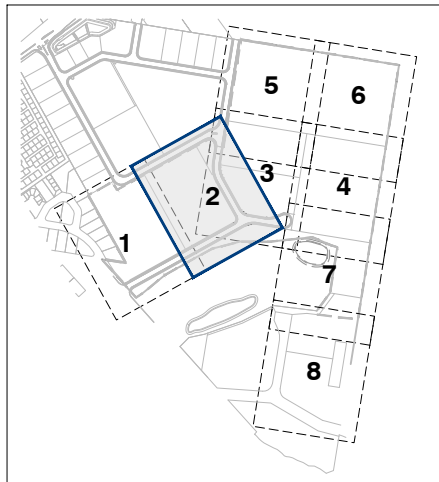
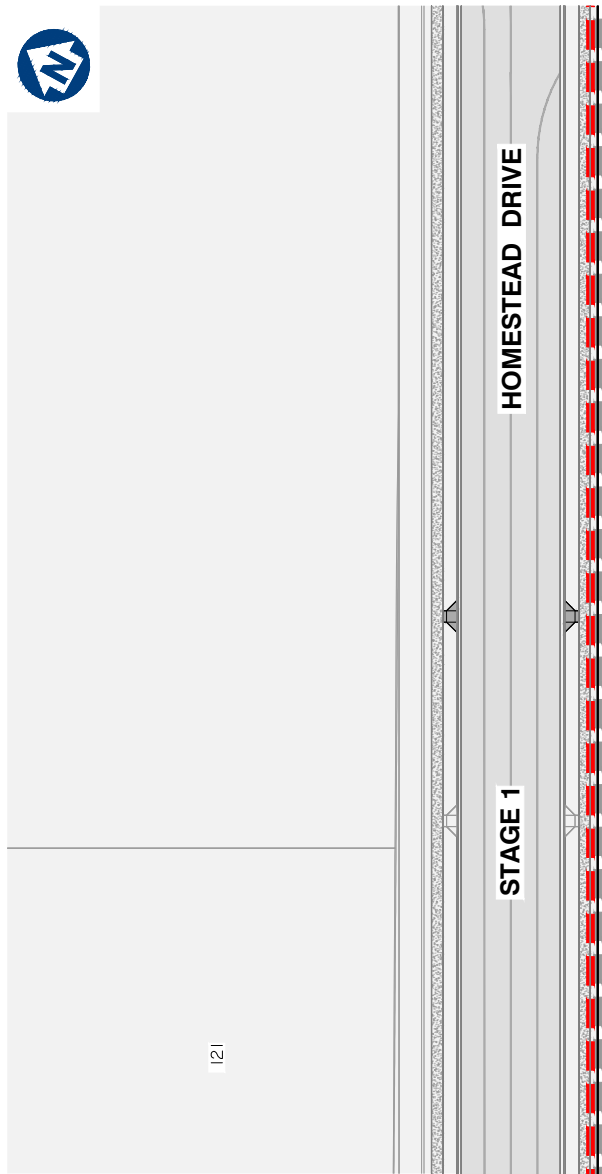
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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No:
5941 ENG OPW2 800

Rev. No:
E



KEY PLAN
SCALE 1: 7500



LINEMARKING LEGEND		
	WIDTH (mm)	
	MINIMUM	PREFERRED
DIVIDING LINE – MDL		100 100
EDGE LINE – EL		100 150
BROKEN LINE LANE – BL		100 100
CONTINUITY LINE – CL		200 200
GIVE WAY LINE GWL		300 300

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No...MIN/2022/341

Dated: 8 September 2022

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

204

FOR CONTINUATION REFER SHEET No. 5941 ENG OPW2 800

LINEMARKING AND SIGNAGE PLAN SHEET 2 OF 3

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
LINEMARKING AND
SIGNAGE PLAN
SHEET 2 OF 3

Issue	Date	Description	LAB	MG
E	19/07/22	LOT NUMBER, LOT BOUNDARY UPDATED	LAB	MG
D	28/03/22	LOT RECONFIGURATION	LAB	MG
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG
C	26/11/21	DIVIDING LINEMARKING ADDED	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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1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed: IG

Drafted: LAB / IG

Approved: MG

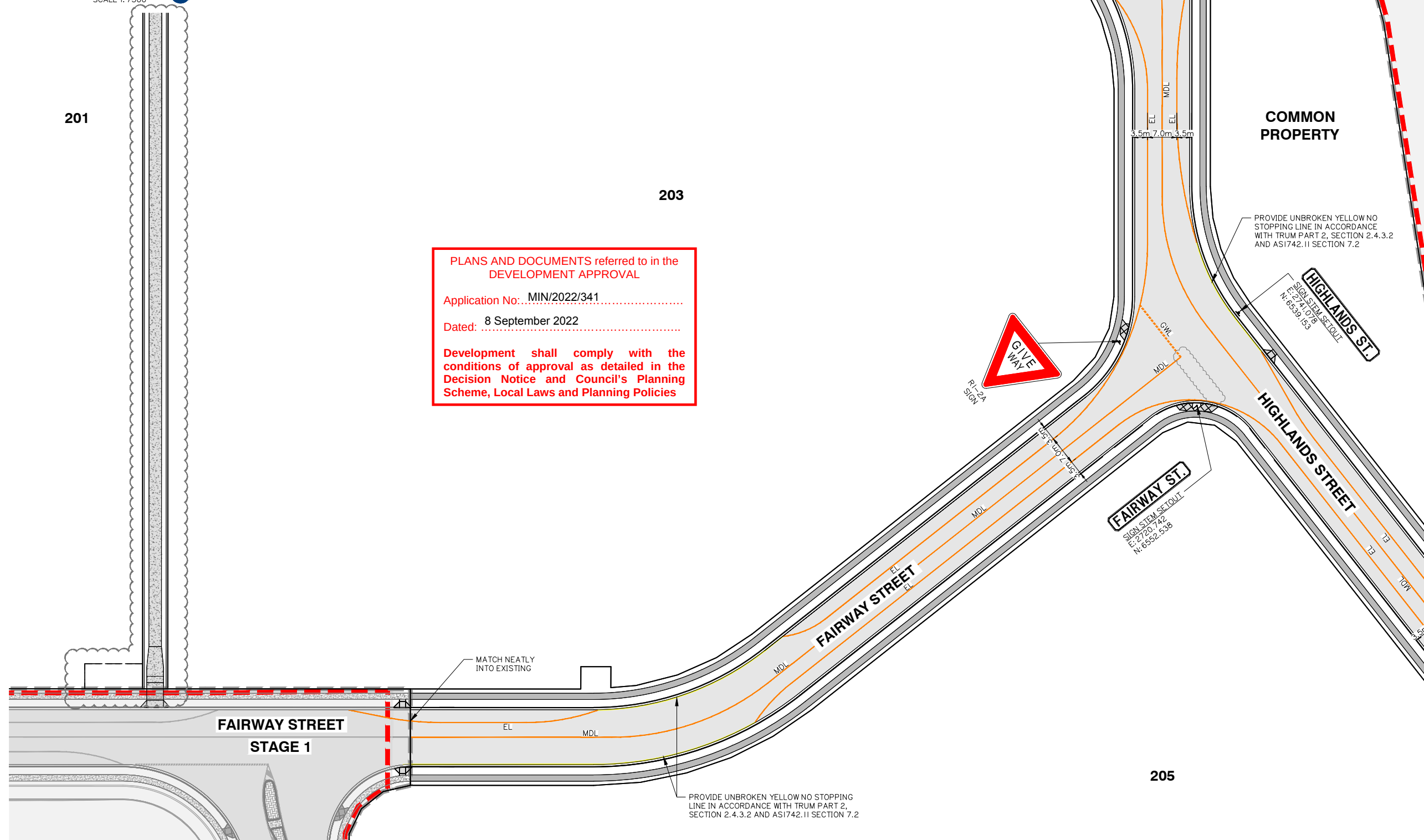
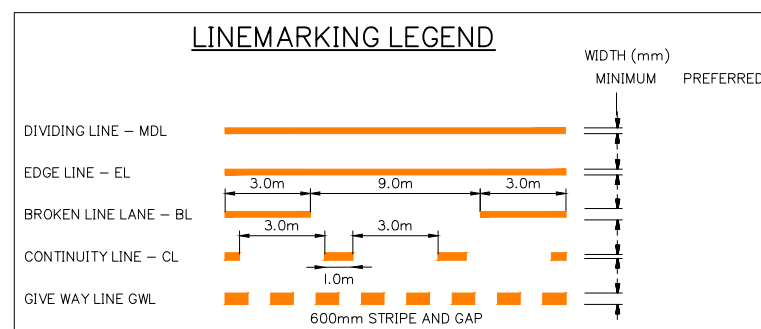
RPEQ: 16939

Signed:

Date: 05/07/2022

Drawing No:
5941 ENG OPW2 801

Rev. No:
E



FOR CONTINUATION REFER SHEET No. 594I ENG OPW2 80I

LINEMARKING AND SIGNAGE PLAN SHEET 3 OF 3

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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DRAWING TITLE
LINEMARKING AND
SIGNAGE PLAN
SHEET 3 OF 3

E	19/07/22	LOT NUMBER LOT BOUNDARY UPDATED	LAB	MG		
D	28/03/22	LINE MARKING AMENDED	LAB	MG		
C	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
C	25/11/21	DIVIDING LINE MARKING ADDED	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)
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Designed:	IG
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Drafted:	LAB / IG
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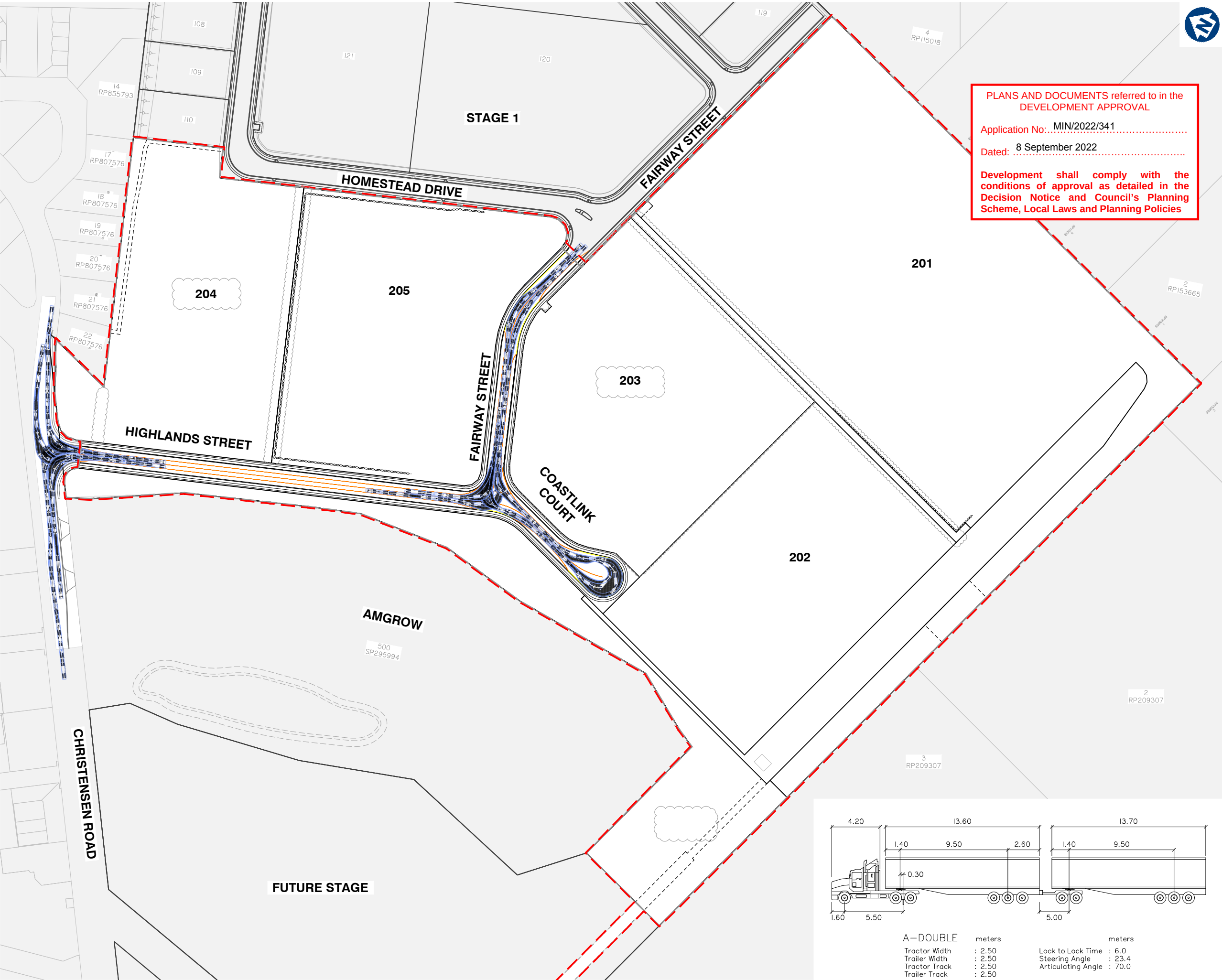
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RPEQ:	16939
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Signed:	
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Date:	05/07/2022
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Drawing No:	Rev. No:
5941 ENG OPW2 802	E



Issue	Date	Description	LAB	MG	DRN	CHK
C	19/07/22	LOT BOUNDARY AND LOT NUMBER UPDATED	LAB	MG		
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		

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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022



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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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DRAWING TITLE

A-DOUBLE SWEEP PATH
ANALYSIS SHEET 1 OF 5

C	19/07/22	LOT BOUNDARY AND LOT NUMBER UPDATED				LAB	MG
B	26/11/21	ISSUED FOR CONSTRUCTION				LAB	MG
B	10/09/21	INFORMATION REQUEST RESPONSE				LAB	MG
A	30/07/21	ORIGINAL ISSUE				LAB	MG
Issue	Date	Description				DRN	CHK

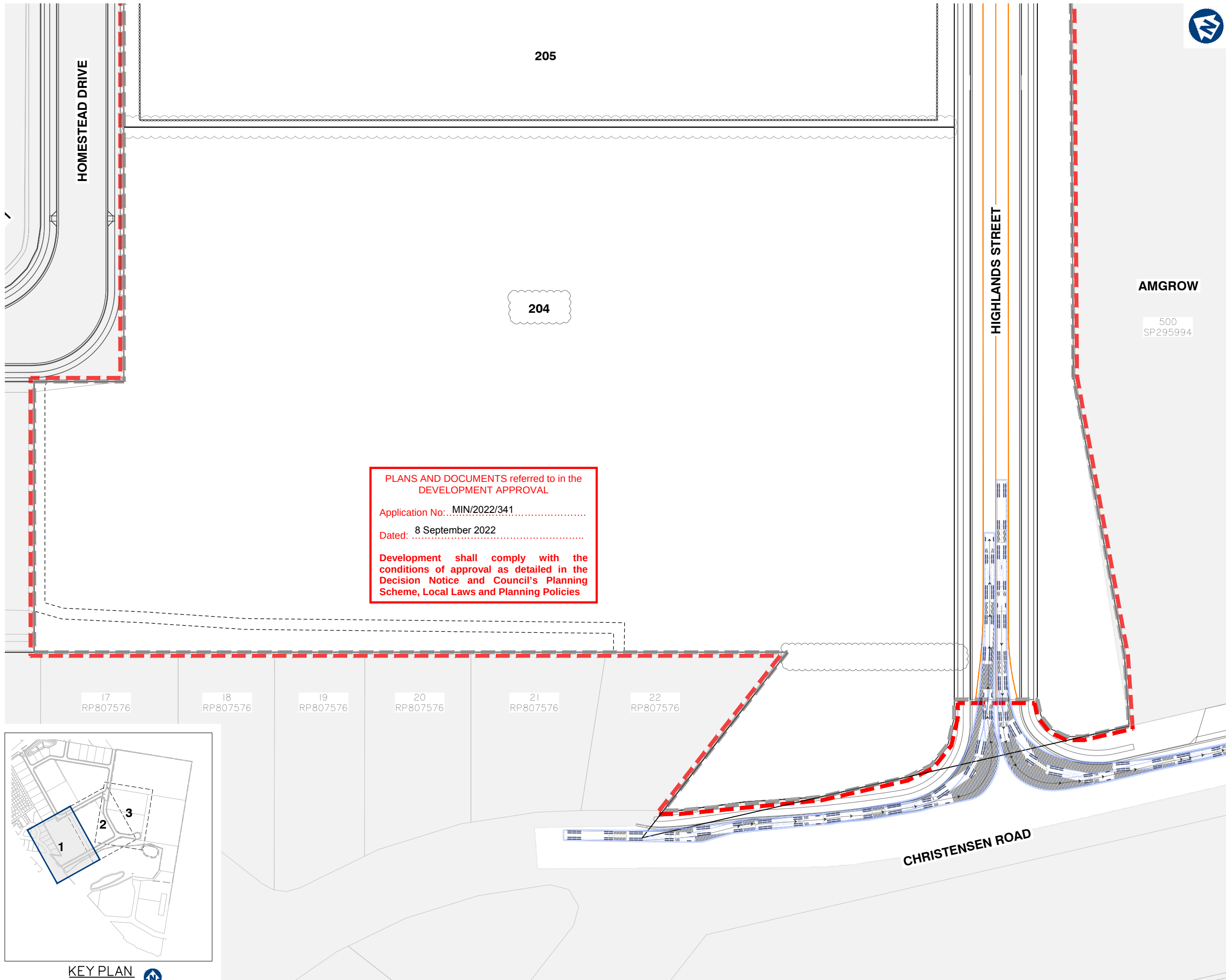
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Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No:	Rev. No:
5941 ENG OPW2 901	C



Client:



FRASERS PROPERTY
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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
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Level Datum: AHD
Meridian: -
Contour Interval: -
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RL: -

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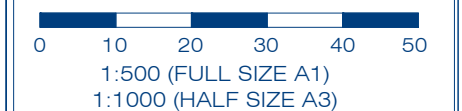
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

A-DOUBLE SWEEP PATH
ANALYSIS SHEET 2 OF 5

Issue	Date	Description	LAB	MG	DRN	CHK
C	19/07/22	LOT BOUNDARY AND LOT NUMBER UPDATED	LAB	MG		
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG		
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG		
A	30/07/21	ORIGINAL ISSUE	LAB	MG		

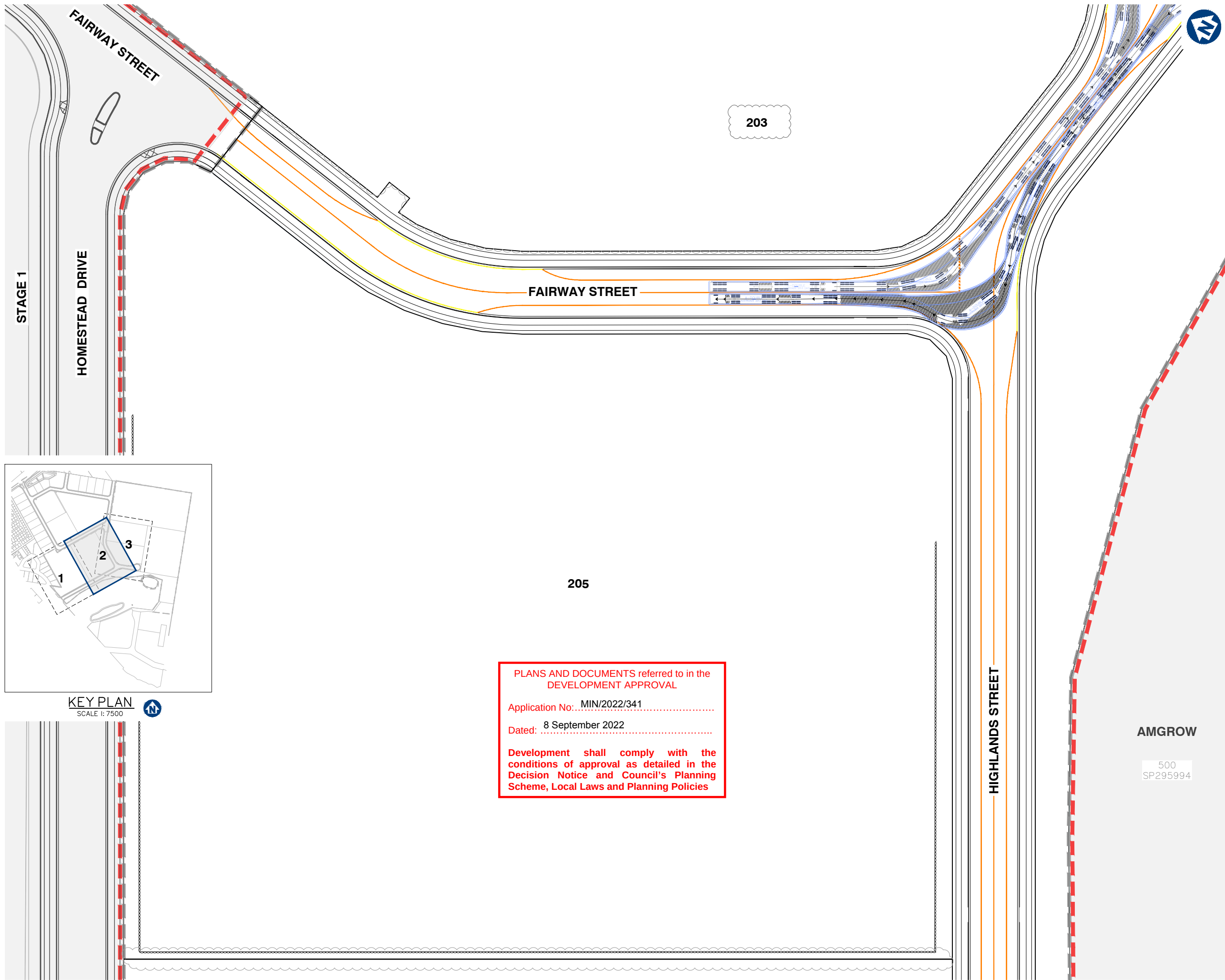
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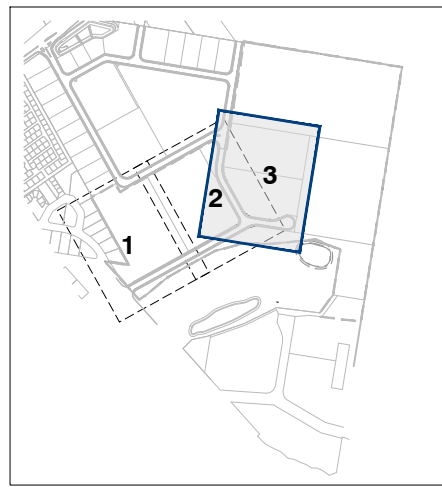


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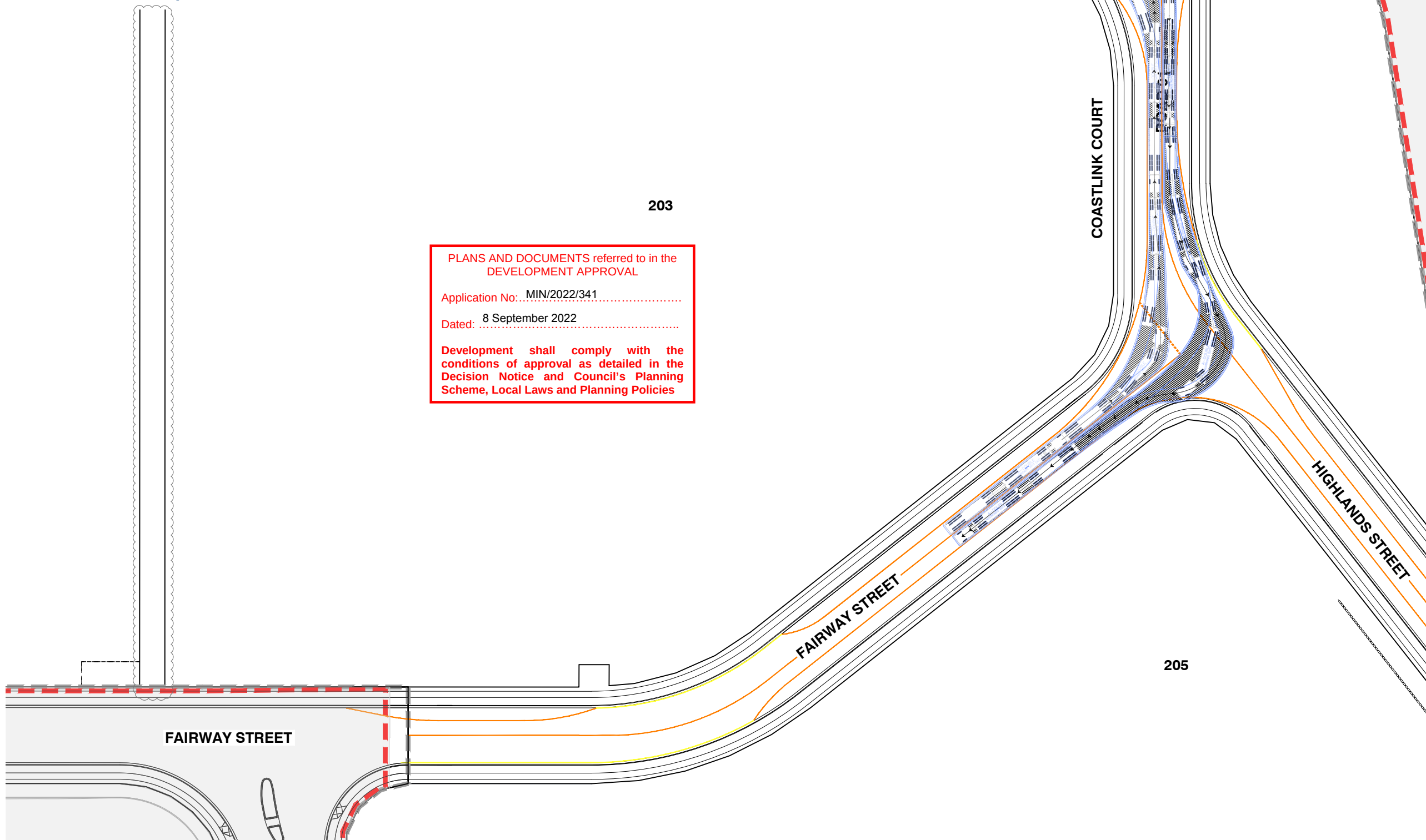
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Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No: 5941 ENG OPW2 902 Rev. No: C





KEY PLAN
SCALE 1:7500



PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: MIN/2022/341

Dated: 8 September 2022

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
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

A-DOUBLE SWEEP PATH
ANALYSIS SHEET 5 OF 5

Issue	Date	Description	LAB	MG	CHK
C	19/07/22	LOT BOUNDARY AND LOT NUMBER UPDATED	LAB	MG	
B	26/11/21	ISSUED FOR CONSTRUCTION	LAB	MG	
B	10/09/21	INFORMATION REQUEST RESPONSE	LAB	MG	
A	30/07/21	ORIGINAL ISSUE	LAB	MG	

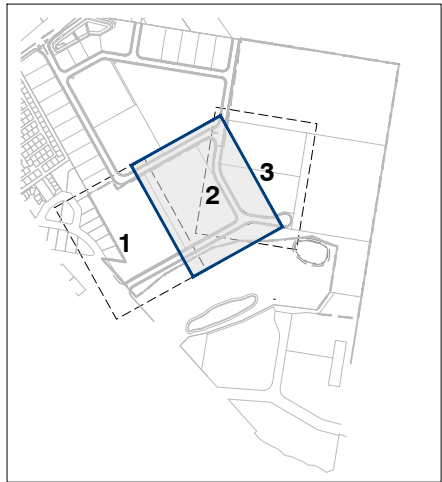
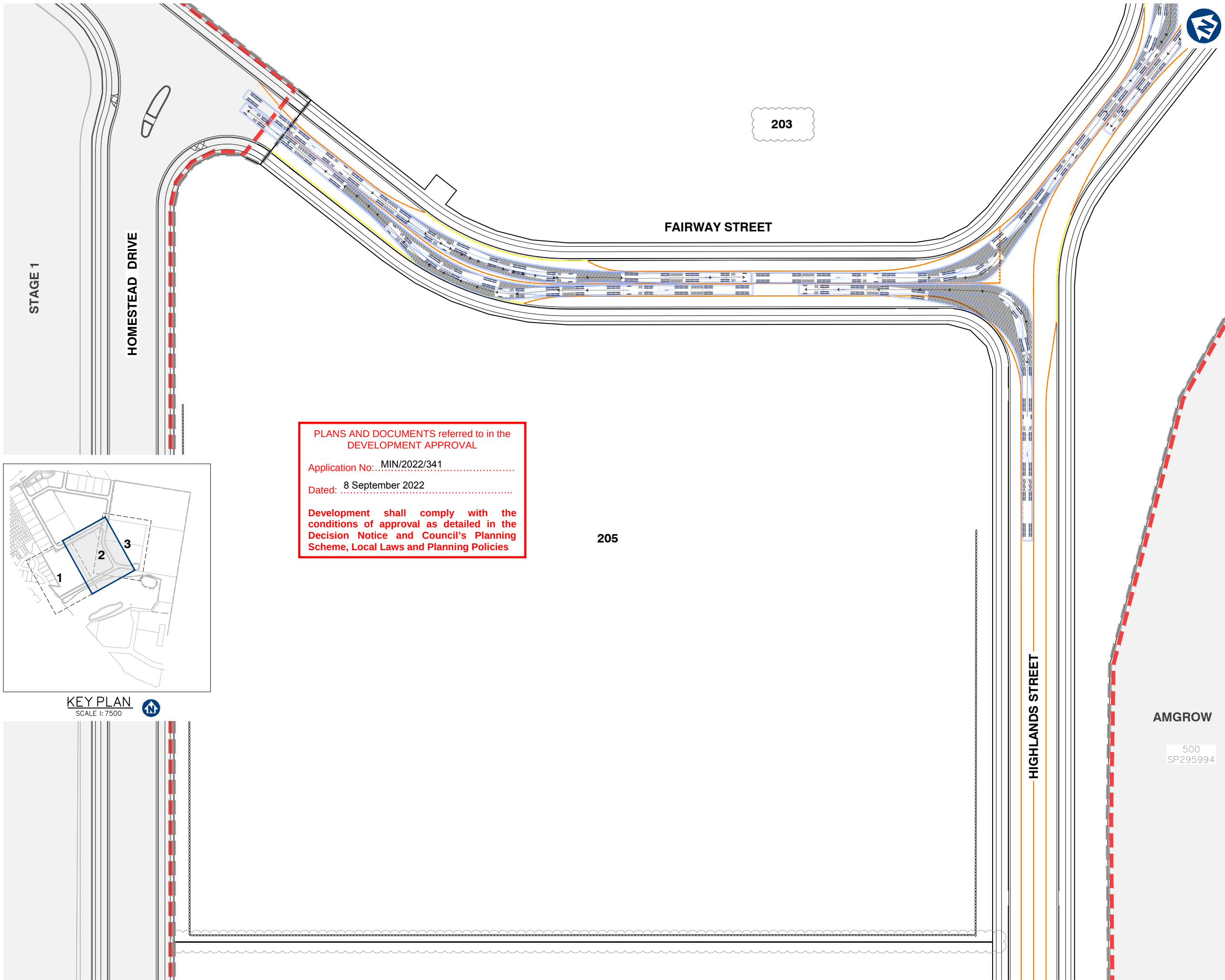
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	LAB / IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05/07/2022

Drawing No: 5941 ENG OPW2 905 Rev. No: C



KEY PLAN
SCALE 1:7500

PLANS AND DOCUMENTS referred to in the
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