

CIVIL OPERATIONAL WORKS VANTAGE YATALA - STAGE 1

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STANDARD DRAWINGS			
DRAWING No.	REV.	ASSOCIATION	DRAWING TITLE
DS-010	F	IPWEA	ACCESS CHAMBER – STORMWATER ACCESS CHAMBER DETAILS – 1050 TO 2100 DIA
DS-015	C	IPWEA	ACCESS CHAMBER – MANHOLE FRAME – ROADWAY AND NON ROADWAY – 1050 TO 2100 DIA
DS-018	C	IPWEA	ACCESS CHAMBER – MANHOLE RISER DETAILS
DS-019	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (ROADWAY)
DS-020	C	IPWEA	ACCESS CHAMBER – MANHOLE ROVER (NON ROADWAY)
DS-021	C	IPWEA	ACCESS CHAMBER – MANHOLE COVER CONCRETE INFILL (PEDESTRIAN TRAFFIC) 1050 TO 2100 DIA
DS-030	F	IPWEA	EXCAVATION, BEDDING & BACKFILL – RIGID & FLEXIBLE DRAINAGE PIPES
DS-031	D	IPWEA	EXCAVATION, BEDDING & BACKFILL PRECAST – BOX CULVERTS
DS-040	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – SEDIMENT FENCE, ENTRY/EXIT SEDIMENT TRAP
DS-041	E	IPWEA	SEDIMENT CONTROL – SEDIMENT CONTROL DEVICES – KERB AND FIELD INLET, CHECK DAMS & STRAW BALES
DS-050	E	IPWEA	DRAINAGE PITS – FIELD INLET TYPE 1 AND TYPE 2
DS-061	B	IPWEA	DRAINAGE PITS – KERB INLET – PRECAST LINTEL DETAILS
DS-062	D	IPWEA	DRAINAGE PITS – KERB INLET – GRATE AND FRAME
DS-063	C	IPWEA	DRAINAGE PITS – KERB INLET – LIP IN LINE – GENERAL ARRANGEMENT
DS-065	I	IPWEA	PATHWAYS – CONCRETE PATHWAY CONSTRUCTION DETAILS
DS-073	A	IPWEA	BIORETENTION DRAINAGE PROFILE – TYPE 3 – CONVENTIONAL
DS-075	A	IPWEA	LARGE BIORETENTION SEDIMENT FOREBAY
DS-076	A	IPWEA	BIORETENTION WEIR
DS-078	A	IPWEA	BIORETENTION STANDARD NOTES
GS-041	D	IPWEA	FENCING – CHAIN WIRE SECURITY FENCING
RS-049	E	IPWEA	VEHICLE CROSSING – RESIDENTIAL DRIVEWAYS – PLAN 1 OF 2
RS-050	G	IPWEA	VEHICLE CROSSING – RESIDENTIAL DRIVEWAYS – PLAN 2 OF 2
RS-080	F	IPWEA	KERB AND CHANNEL – PROFILES AND DIMENSIONS – INCLUDING EDGE RESTRAINTS, MEDIAN & CHANNEL
RS-090	J	IPWEA	KERB RAMPS – RAMPED PEDESTRIAN
RS-091	F	IPWEA	KERB RAMPS – RAMPED AND CUT THROUGH TREATMENTS – FOR PEDESTRIAN CROSSINGS, SLIP LANES AND MEDIANS
RS-094	F	IPWEA	KERB RAMPS – LOCATIONS AND CONFIGURATIONS
RS-130	F	IPWEA	ROAD FURNITURE – STREET NAME SIGN AND LOCATION (FINGERBOARD)
RS-131	G	IPWEA	ROAD FURNITURE – TRAFFIC SIGN INSTALLATION DETAILS
RS-140	F	IPWEA	SUBSOIL DRAINS – DETAILS AND LOCATION
RS-142	F	IPWEA	SUBSOIL DRAINS – ACCESS POINTS
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
SEQ-SPS-1602-1	C	SEQ	RISING MAIN SCOUR/ DRAIN ARRANGEMENT
SEQ-SPS-1606-1	B	SEQ	AUTOMATIC GAS RELEASE VALVE



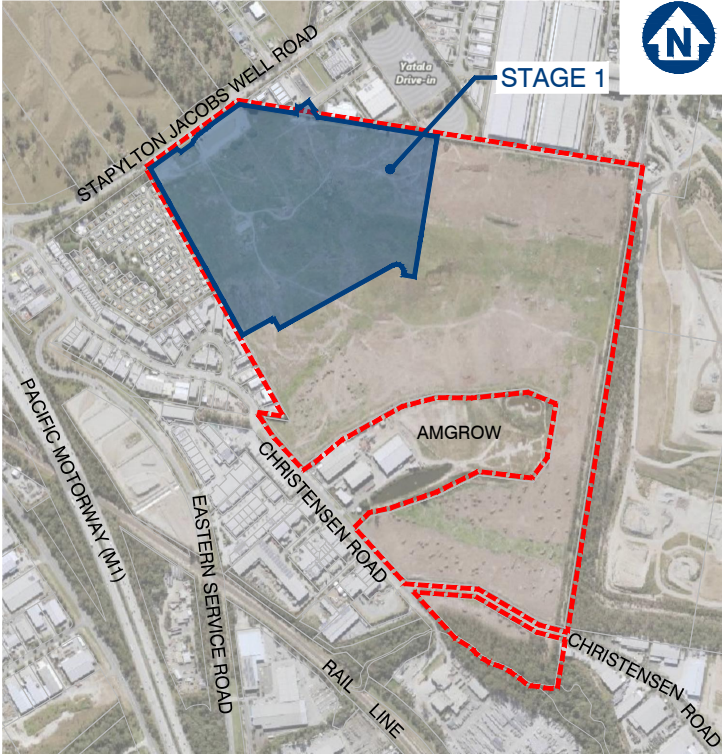
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207



STAGE 1

LOCALITY PLAN

SCALE 1: 8000 (A1)



FRASERS
PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

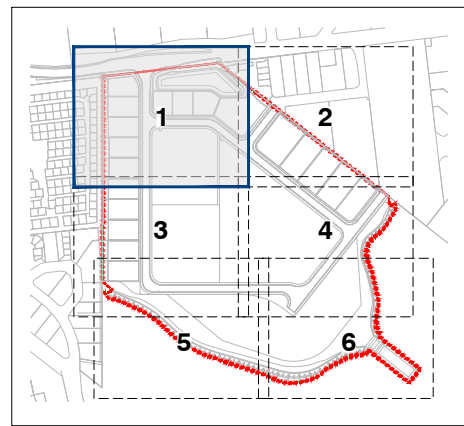
SITE ADDRESS

60 STAPYLTON JACOBS WELL ROAD
STAPYLTON QLD 4207

DWG No. 594I ENG OPWI 001 – REV G

MARCH 2021

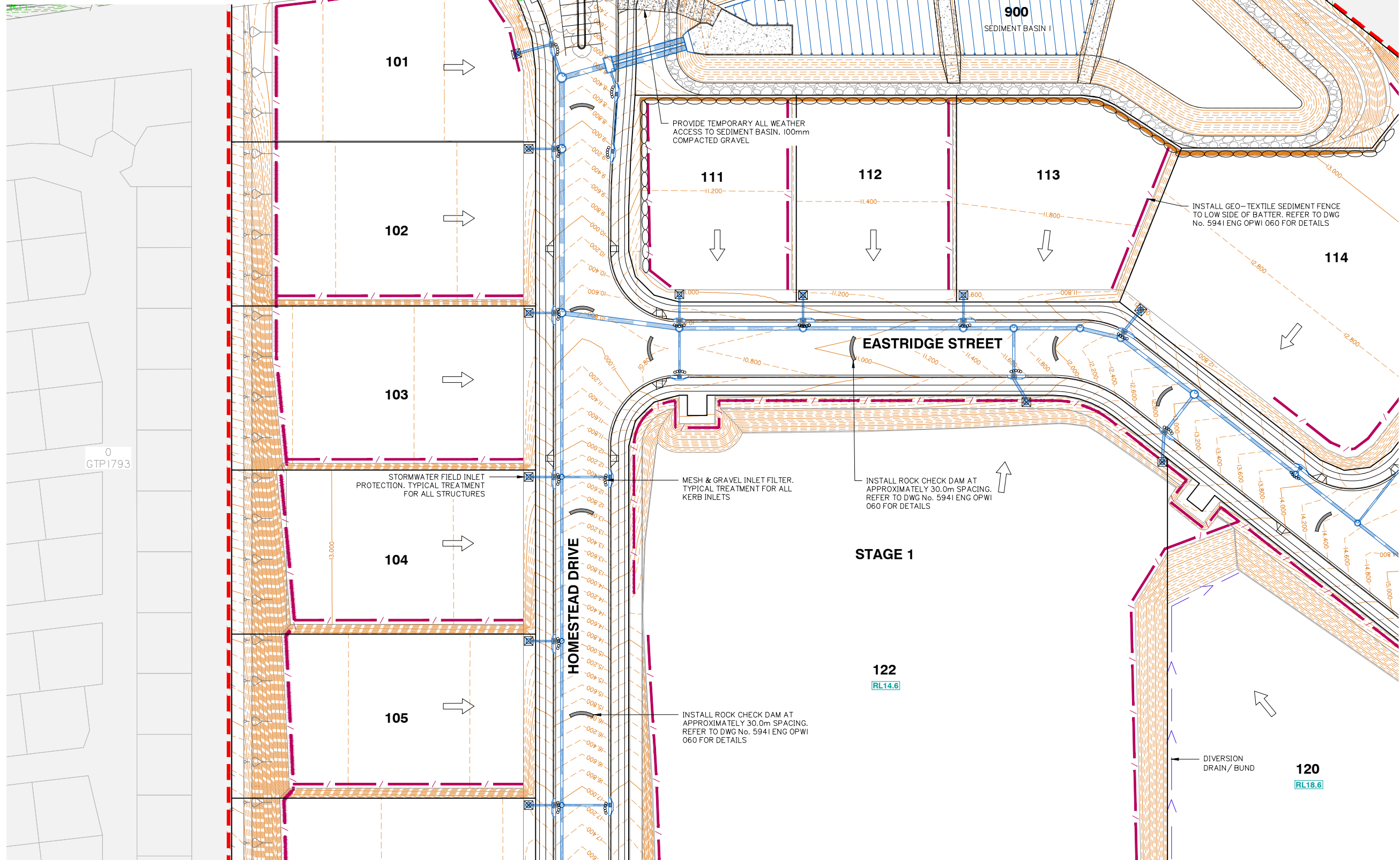




KEY PLAN
SCALE 1:7500

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.
5. CONTRACTOR TO STABILISE EXPOSED SURFACES UPON COMPLETE OF WORKS TO MINIMISE SEDIMENT RUN OFF AND DUST.



SEDIMENT AND EROSION CONTROL PLAN SHEET 1 OF 6

Client:



Project:

VANTAGE YATALA
STAGE 1

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

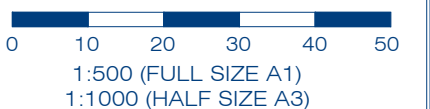
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
SEDIMENT AND
EROSION CONTROL
PLAN SHEET 1 OF 6

Issue	Date	Description	BA	MG	DRN	CHK
D	12-03-2021	MINOR CHANGE	BA	MG		
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG		
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG		
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG		
A	01-05-2020	ORIGINAL ISSUE	BA	MG		

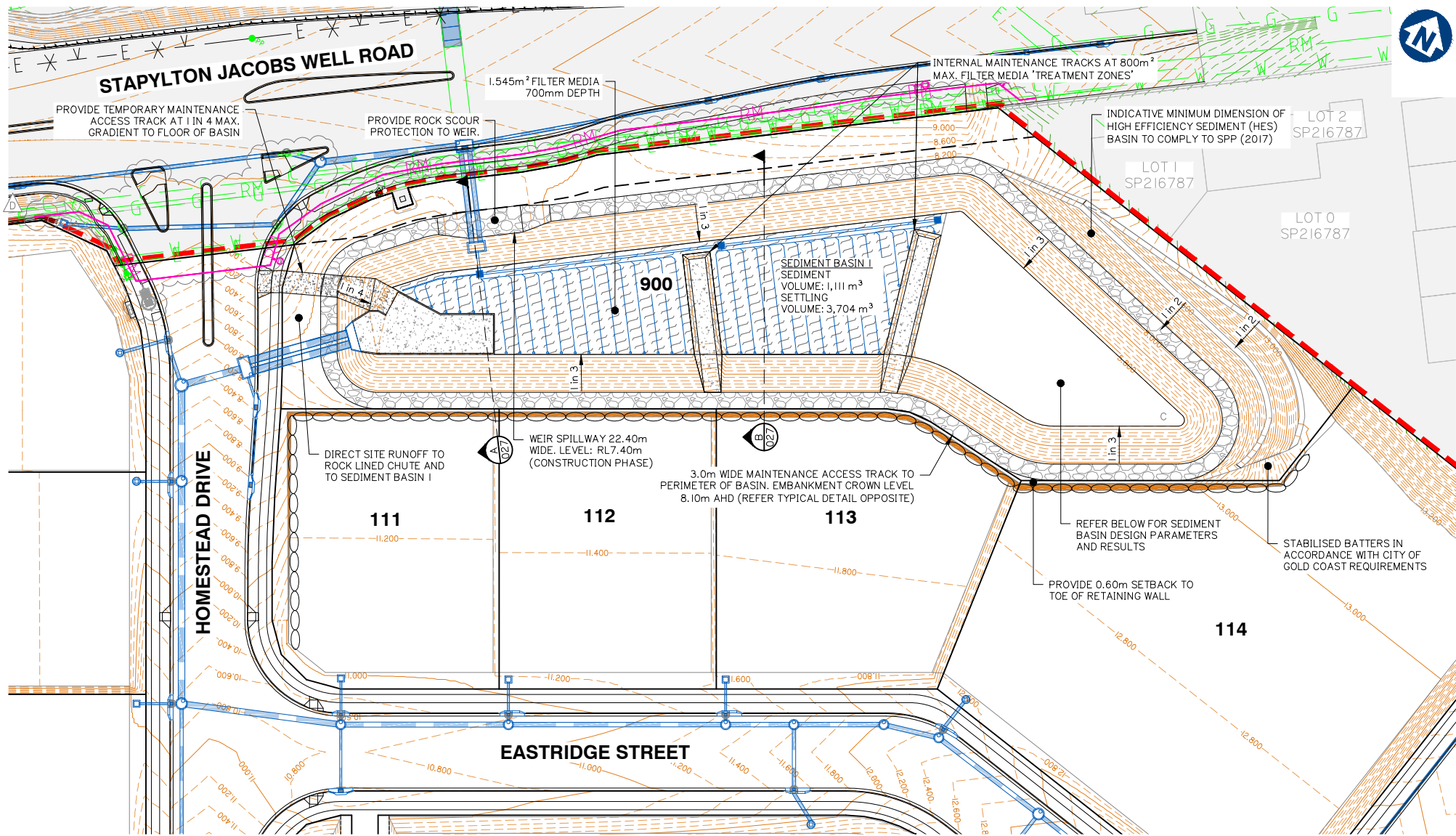
SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No: 5941 ENG OPW1 050 Rev. No: D



CONSTRUCTION PHASE SEDIMENT BASIN I LAYOUT

SCALE 1:500 (A1)

NOTES:

- ALL ALLOTMENTS TO GRADE TOWARDS THE ROAD AT MINIMUM 1:150 (0.67%) FALL, EXCEPT IF NOTED OTHERWISE.
- SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. THE CONTRACTOR MUST TAKE ADDITIONAL MEASURES IF REQUIRED ON SITE DURING CONSTRUCTION AND MAINTENANCE PERIODS.
- CONTRACTOR EROSION AND SEDIMENT CONTROL PLAN SHOULD COMPLY WITH ALL CITY OF GOLD COAST COUNCIL AND STATE REQUIREMENTS AND TO BE IN ACCORDANCE WITH INDUSTRY BEST PRACTICE GUIDELINES.
- CONTRACTOR TO OBTAIN SEDIMENT AND EROSION CONTROL PLAN APPROVAL FROM RELEVANT AUTHORITY BEFORE THE COMMENCEMENT OF WORKS.

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: 501
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Local Authority: CITY OF GOLD COAST
COUNCIL
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RL: -

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
CONSTRUCTION PHASE
SEDIMENT BASIN 1
LAYOUT

D	12-03-2021	MINOR CHANGE	BA	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG
Issue	Date	Description	BA	CHK

SCALE IN METRES



Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No: 5941 ENG OPW1 056 Rev. No: D

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

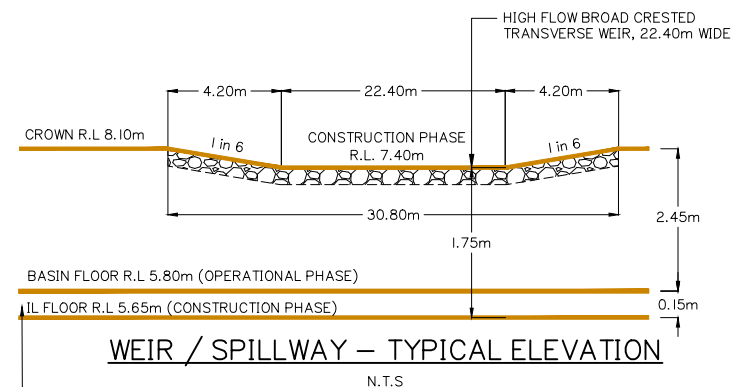
BASIN ID	CATCHMENT AREA	DESIGN EVENT	I_x yr. 24 hr	WATER TEMPERATURE	K_s	SETTLING ZONE DEPTH (D_s)	W:L	OPTIMUM LOW-FLOW DEWATER RATE	SELECTED LOW-FLOW DEWATER RATE (Q_d)	MIN SETTLING ZONE VOLUME (Min V_s)	MIN SETTLING ZONE SURFACE AREA (Min A_s)	LIMITING CRITERIA
	(Ha)	(1: X YEARS)	(mm/hr)	(°C)	(s/m)	(m)	(1: X)	(L/s/Ha)	(L/s/Ha)	(m³)	(m²)	
No. 1	15.071	1	4.53	20	11150	1.3	4.8	9	9	3704	1512	VOLUME

BASIN ID	SETTLING ZONE		SCOUR VELOCITY	FREE WATER ZONE		SEDIMENT STORAGE ZONE		OVERALL DIMENSIONS RELATIVE TO SPILLWAY CREST (EXCL. FOREBAY)			
	ACTUAL SETTLING ZONE VOLUME (V_s)	ACTUAL SETTLING ZONE AREA (A_s)		DEPTH OF FREE WATER ZONE	VOLUME OF FREE WATER ZONE	SEDIMENT STORAGE VOLUME	SEDIMENT STORAGE DEPTH (APPROX.)	BATTER	WIDTH	LENGTH	DEPTH
No. 1	(m³)	(m²)	(m/s)	(m)	(m³)	(m³)	(m)	(1: X)	(m)	(m)	(m)
No. 1	3704	2827	0.009	0.22	370	1111	0.47	3	28.2	135.4	2.00

BASIN ID	BASIN DESIGN LIFE	DESIGN ARI	C_{10}	C	t_c	I	Q	HEAD OVER SPILLWAY	SPILLWAY CREST LENGTH	SPILLWAY CREST RL	MIN EMBANKMENT RL
		yr				(mm/hr)	(m³/s)	(m)	(m)	(m)	(m)
No. 1	> 12 MONTHS	1: 50	0.85	0.98	20.00	160.00	6.55	0.25	30.80	7.40	8.10

BASIN ID	SETTLING ZONE (incl. sediment storage)				FOREBAY				HYDRAULIC CONTROLS			
	VOLUME (m³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	VOLUME (m³)	LENGTH (m)	WIDTH (m)	DEPTH (m)	SPILLWAY CREST LENGTH (m)	SPILLWAY CREST (RL)	EMBANKMENT (RL)	LEVEL SPREADER CREST (RL)
No. 1	5185.2	135.4	28.2	2.00	763.40	13.5	28.2	2.00	30.8	7.40	8.10	7.60

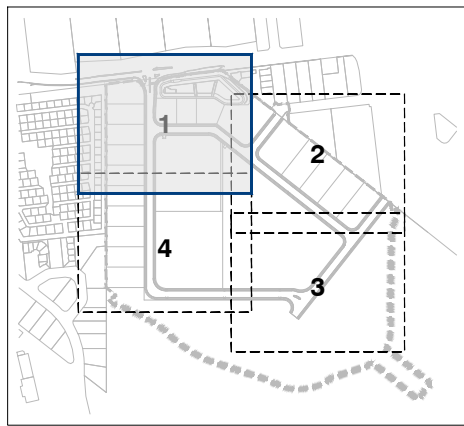
IF FURTHER SEDIMENT STORAGE VOLUME IS REQUIRED, CONTRACTOR SHALL SEEK THE APPROVAL OF THE SUPERINTENDENT TO EXCAVATE TO SUBGRADE LEVEL OF THE FUTURE BIO-RETENTION BASIN FILTER LAYER (TO A LEVEL NOT LOWER THAN RL 4.80m)



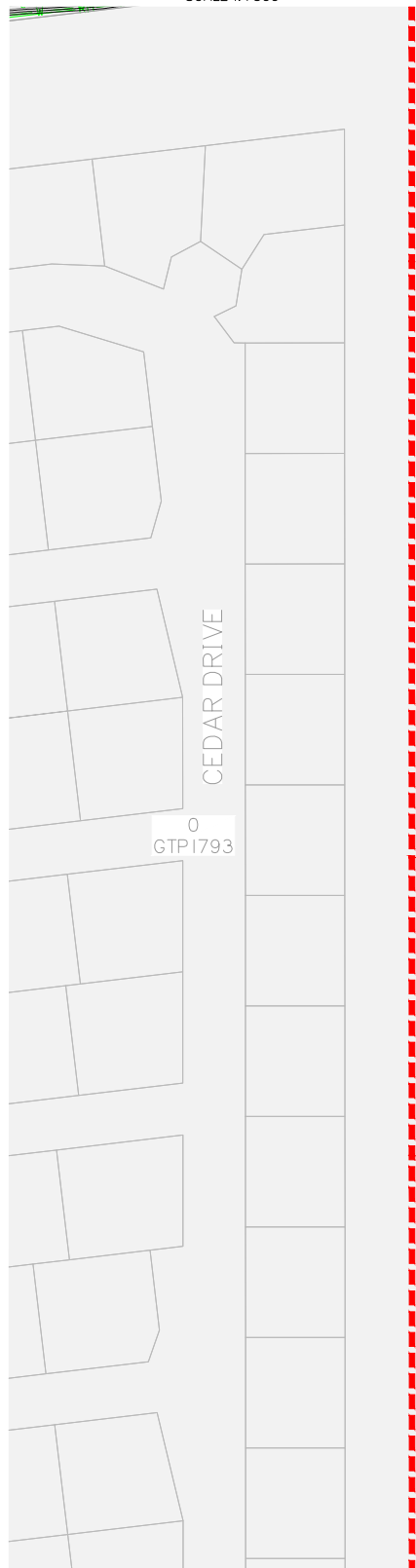
WEIR / SPILLWAY – TYPICAL ELEVATION

N.T.S

CONSTRUCTION PHASE SEDIMENT BASIN I LAYOUT



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 SHEET 5941 ENG OPW1 400 TO 5941 ENG OPW1 403
SEWER INFORMATION AND DETAILS REFER SHEET 5941 ENG OPW1 600 TO 5941 ENG OPW1 603
SEWER RISING MAIN AND DETAILS REFER SHEET 5941 ENG OPW1 604 TO 5941 ENG OPW1 607
WATER INFORMATION AND DETAILS REFER SHEET 5941 ENG OPW1 700 TO 5941 ENG OPW1 703

STAPYLTON JACOBS WELL ROAD

111

112

113

114

EASTRIDGE STREET

101

102

103

104

105

122

120

FOR CONTINUATION REFER SHEET No.5941 ENG OPW1 403
OVERALL SERVICES LAYOUT PLAN SHEET 1 OF 4

Client:



Project:

VANTAGE YATALA
STAGE 1

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 1 OF 4

Issue	Date	Description	DRN	CHK
D	12-03-2021	MINOR CHANGE	BA	MG
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG

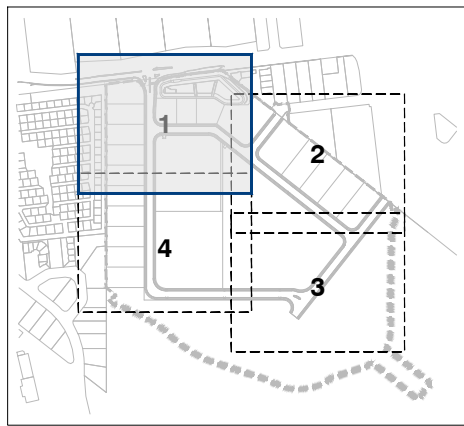
SCALE IN METRES

0 10 20 30 40 50
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

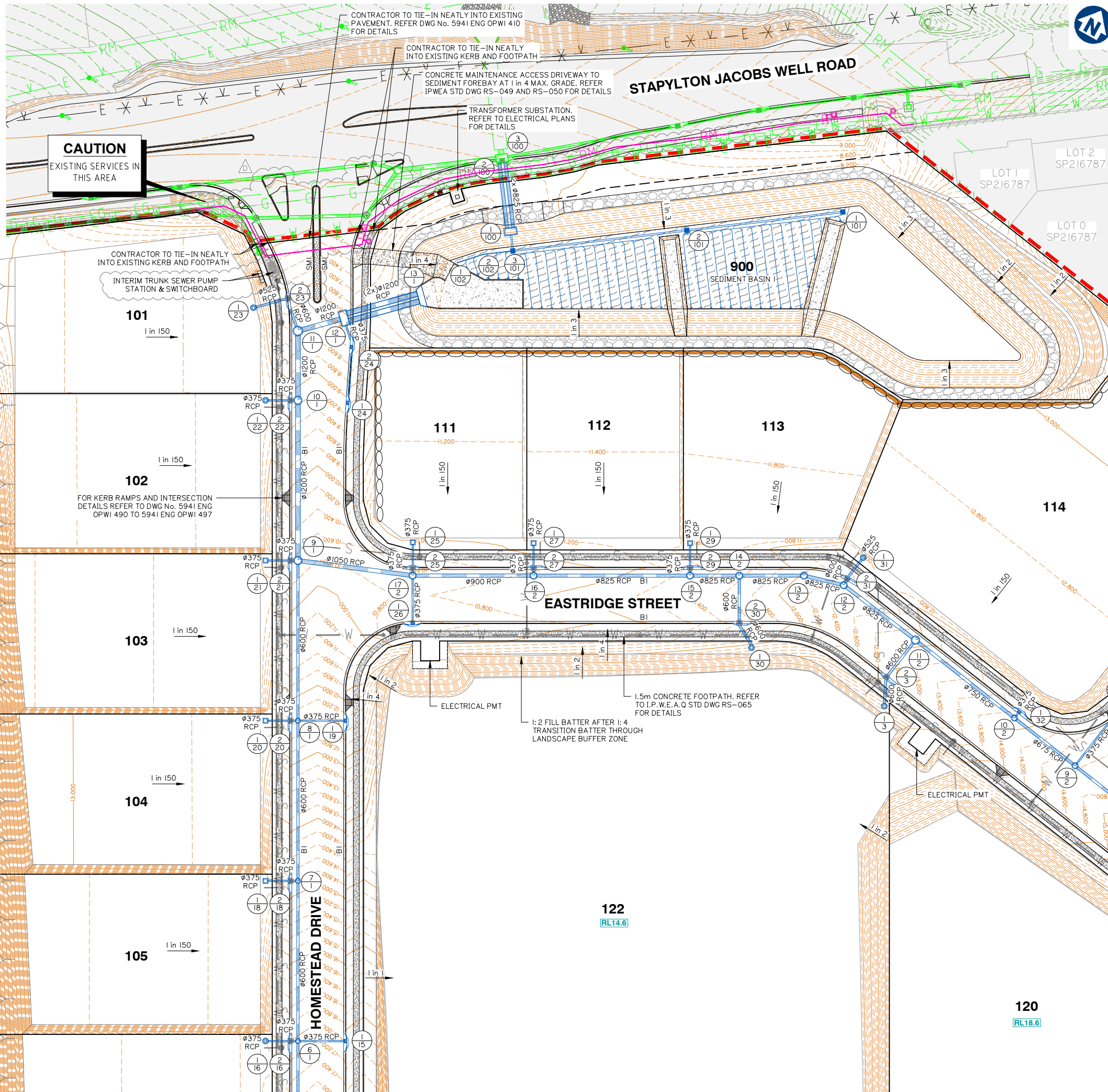
Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No: 5941 ENG OPW1 300
Rev. No: D



KEY PLAN
SCALE 1:7500



ROADWORKS AND DRAINAGE LAYOUT PLAN SHEET 1 OF 4

Client:



Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
ROADWORKS AND
DRAINAGE LAYOUT PLAN
SHEET 1 OF 4

Issue	Date	Description	BA	MG	DRN	CHK
D	12-03-2021	MINOR CHANGE	BA	MG		
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B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG		
A	01-05-2020	ORIGINAL ISSUE	BA	MG		

SCALE IN METRES

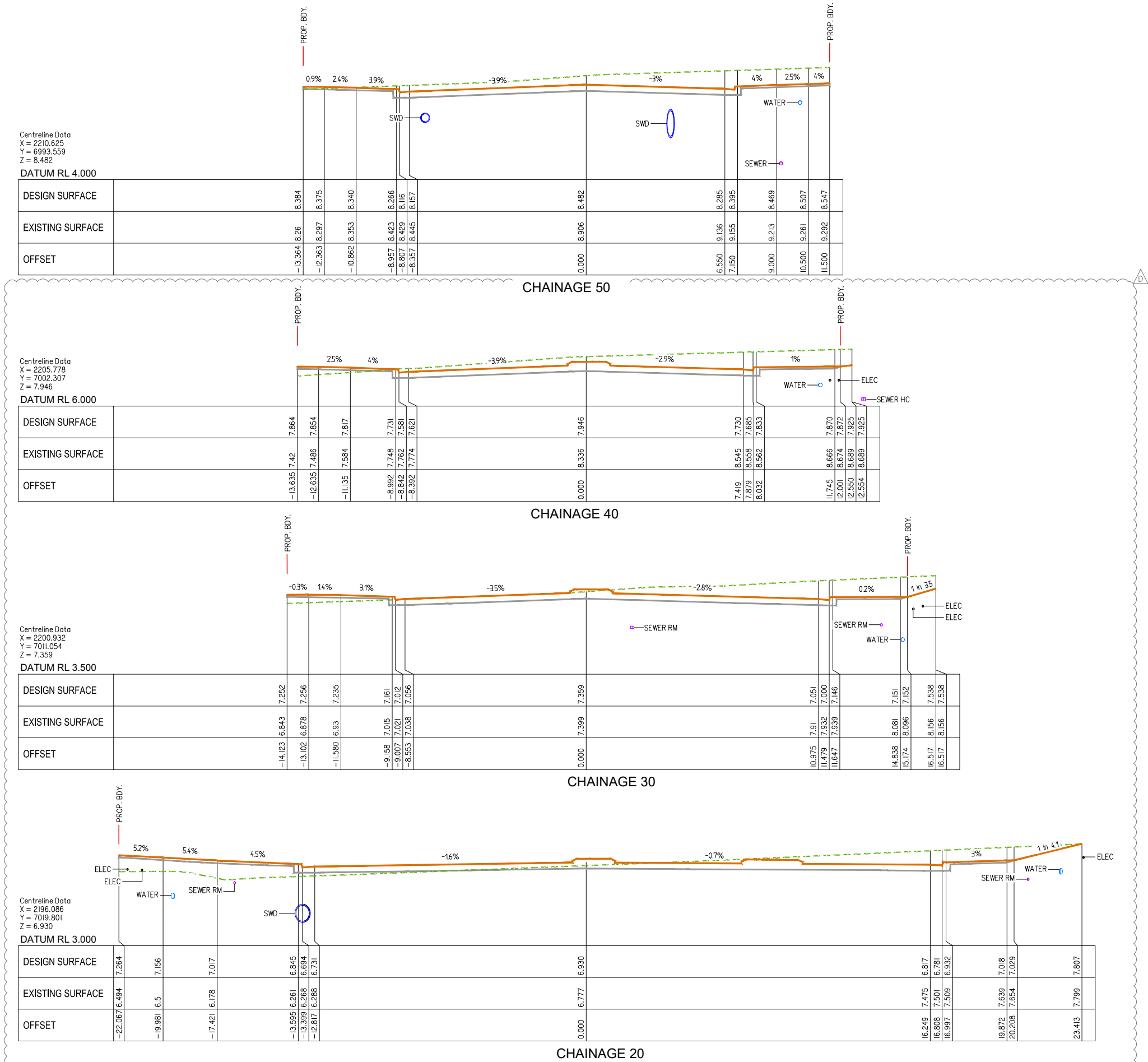


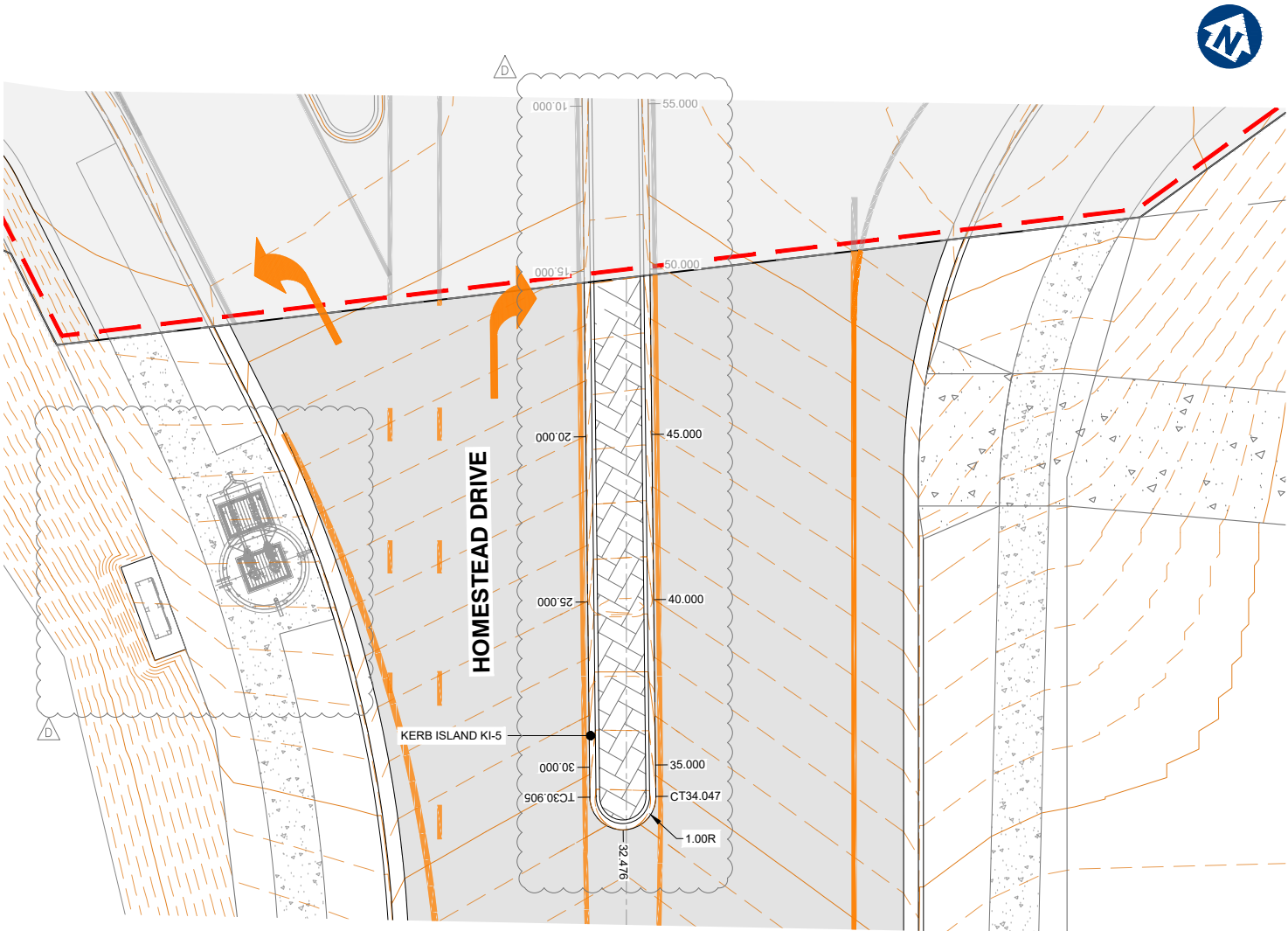
Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No: 5941 ENG OPW1 400 Rev. No: D

12-03-2021	MINOR CHANGE	BA	
28-10-2020	ISSUED FOR CONSTRUCTION	BA	
02-09-2020	MINOR CHANGE TO STAGE 1	BA	
12-06-2020	INFORMATION REQUEST RESPONSE	BA	
01-05-2020	ORIGINAL ISSUE	BA	
Date	Description	DRN	





Kerb Island KI 5 & 6 Layout Plan



Kerb Island KI-5 Setout Table								
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	2193.907	7024.938	7.000				
IP 2	0.785	2193.413	7025.808	7.016		R = -1.000	1.571	90°00'00.00"
CC	1.571	2192.544	7025.313	7.023	240°22'28.51"			
IP 3	2.356	2191.674	7024.819	7.014		R = -1.000	1.571	90°00'00.00"
CT	3.142	2192.169	7023.950	7.000	150°22'28.51"			
	5.000	2193.087	7022.334	6.971	150°22'28.51"			
	10.000	2195.559	7017.988	6.931	150°22'28.51"			
	15.000	2198.031	7013.642	7.104	150°22'28.51"			
	20.000	2200.502	7009.295	7.402	150°22'28.51"			
	25.000	2202.974	7004.949	7.702	150°22'28.51"			
	30.000	2205.445	7000.602	7.988	150°22'28.51"			
TC	30.905	2205.893	6999.816	8.038	150°22'28.51"			
IP 4	31.690	2206.387	6998.946	8.085		R = -1.000	1.571	90°00'00.00"
CC	32.476	2207.256	6999.441	8.122	60°22'28.51"			
IP 5	33.261	2208.126	6999.935	8.085		R = -1.000	1.571	90°00'00.00"
CT	34.047	2207.631	7000.804	8.035	330°22'28.51"			
	35.000	2207.160	7001.633	7.983	330°22'28.51"			
	40.000	2204.688	7005.980	7.700	330°22'28.51"			
	45.000	2202.217	7010.326	7.406	330°22'28.51"			
	50.000	2199.745	7014.672	7.113	330°22'28.51"			
	55.000	2197.274	7019.019	6.929	330°22'28.51"			
	60.000	2194.802	7023.365	6.969	330°22'28.51"			

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Level Datum: AHD
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DRAWING TITLE

Kerb Island Setout
Details Sheet 1 of 2

D	12-03-2021	MINOR CHANGE	BA	MG	
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG	
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B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG	
A	01-05-2020	ORIGINAL ISSUE	BA	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:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No: 5941 ENG OPW1 480
Rev. No: D



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

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DRAWING TITLE

ROAD INTERSECTION
DETAILS SHEET 1 OF 8

D	12-03-2021	MINOR CHANGE	BA	MG	
C	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG	
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG	
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A	01-05-2020	ORIGINAL ISSUE	BA	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: BA

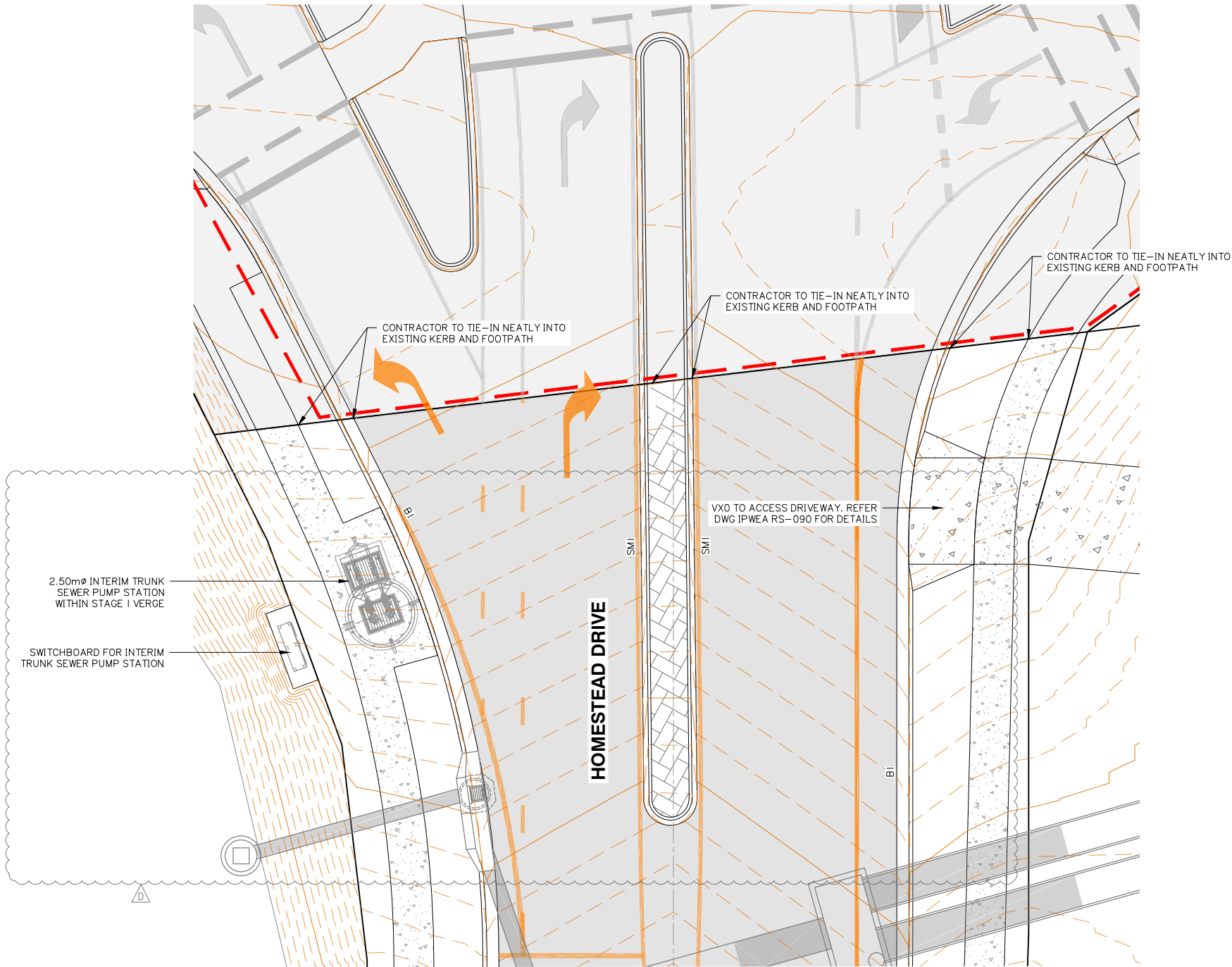
Approved: MG

RPEQ: 16939

Signed:

Date: 12-03-2021

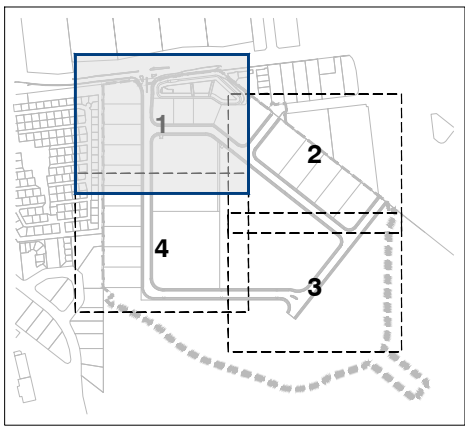
Drawing No: 5941 ENG OPW1 490
Rev. No: D



CATCHMENT TABLE

CATCHMENT NAME	CATCHMENT AREA (HA)
CAT 1/EXT1	0.405
CAT 2/EXT1	0.0045
CAT 3/EXT1	0.0064
CAT 1/EXT2	0.052
CAT 2/EXT2	0.073
CAT 3/EXT2	0.099
CAT 1/EXT3	0.162
CAT 3/EXT3	0.016
CAT 3/100	0.077
CAT 4/EXT3	0.036
CAT 5/EXT3	0.033
CAT 1/EXT4	0.020
CAT 7/X2	0.0528
CAT 8/X2	0.1151
CAT 9/X2	0.1116
CAT 14/X2	0.2471
CAT TD01	0.306
CAT TD02	0.136
CAT RCBC	0.053

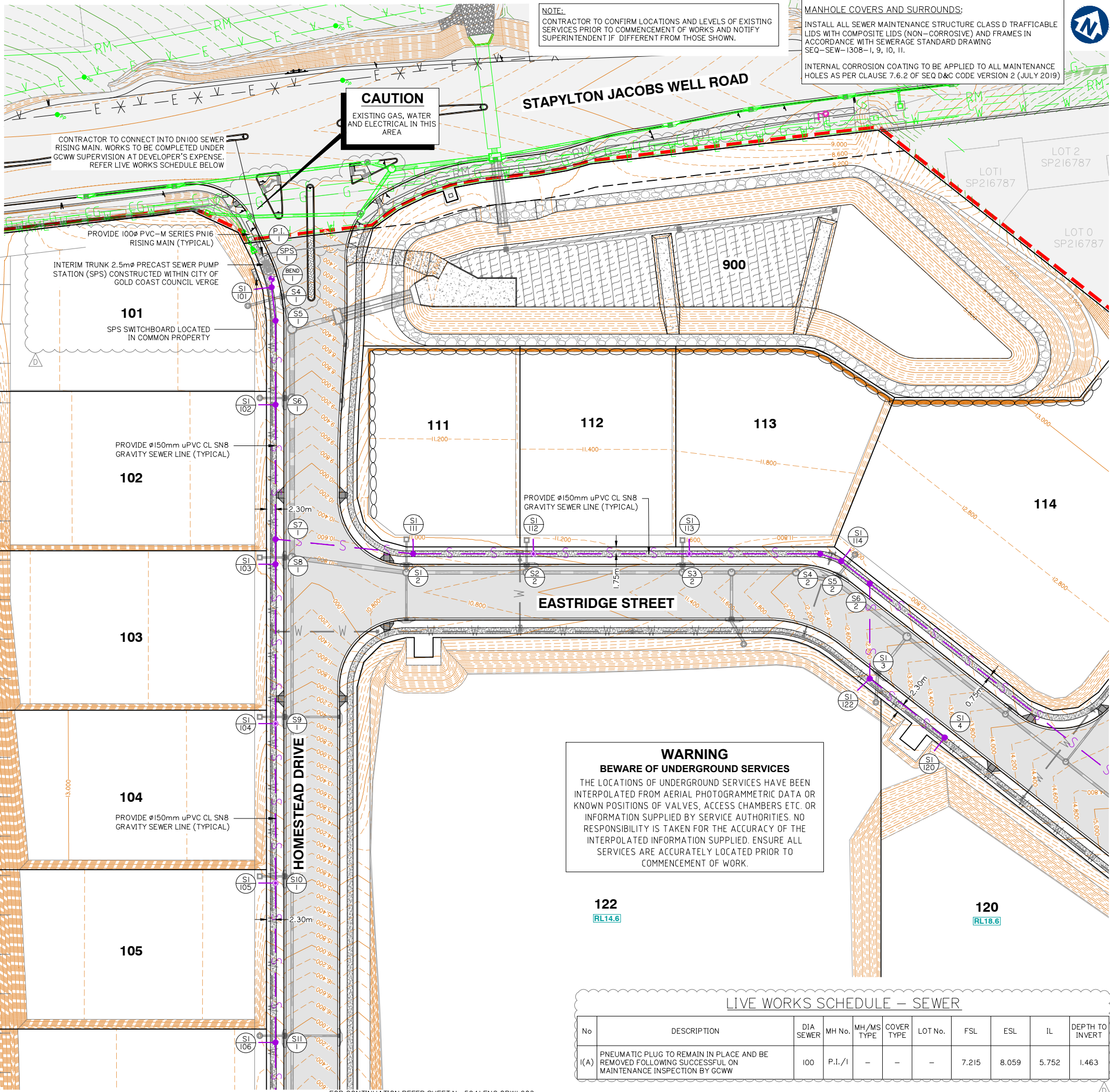
est. 1985



KEY PLAN
SCALE 1: 7500

SEWER STRUCTURE SETOUT TABLE

STRUCTURE NO.	EASTING	NORTHING
SI5/1	2368.90	6688.885
SI4/1	2349.29	6724.281
SI3/1	2329.68	6759.677
SI2/1	2310.071	6795.073
SI1/1	2290.461	6830.469
SI0/1	2270.851	6865.865
S9/1	2251.241	6901.261
S8/1	2231.631	6936.657
S7/1	2228.555	6942.211
S6/1	2212.022	6972.053
S5/1	2201.684	6990.713
S4/1	2196.694	6997.665
BEND/1	2195.678	6999.503
SPS/1	2193.908	7001.109
P.I/1	2190.625	7003.959
SI1/2	2654.719	6958.586
SI0/2	2607.803	6966.203
S9/2	2562.897	6973.492
S8/2	2517.991	6980.782
S7/2	2462.883	6989.728
S6/2	2365.966	7005.462
S5/2	2356.880	7006.937
S4/2	2351.295	7005.964
S3/2	2322.216	6989.854
S2/2	2287.605	6970.679
SI/2	2260.911	6955.890
S7/1	2228.555	6942.211
SI/3	2377.653	6984.367
S6/2	2365.966	7005.462
SI/4	2394.873	6981.571
SI/3	2377.653	6984.367
S7/5	2466.432	6674.779
S6/5	2553.455	6722.991
S5/5	2638.359	6770.028
S4/5	2645.503	6772.099
S3/5	2684.442	6765.600
S2/5	2694.062	6824.858
SI/5	3072.962	6763.348
SI/6	2326.009	6803.990
S2/6	2331.422	6794.501
SI/LOT 101	2188.125	6999.412
SI/LOT 102	2208.26	6969.969
SI/LOT 103	2227.870	6934.573
SI/LOT 104	2247.480	6899.177
SI/LOT 105	2267.090	6863.781
SI/LOT III	2259.093	6959.170
SI/LOT II2	2285.788	6973.959
SI/LOT II3	2320.398	6993.134
SI/LOT II4	2357.481	7010.638
SI/LOT I20	2401.559	6980.486
SI/LOT I22	2377.653	6984.367

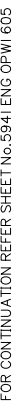


NOTE:
CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.

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)



ISSUE	Date	Description	BA	MG	CHK
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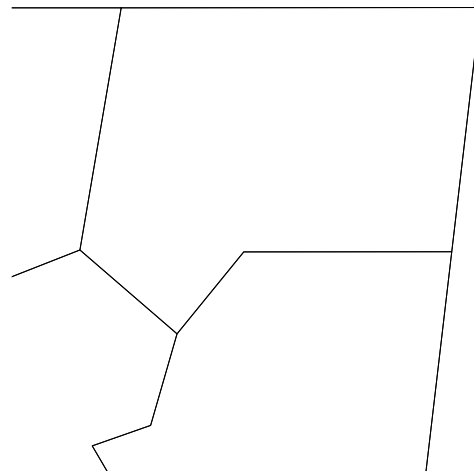
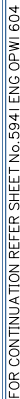


THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN PHYSICALLY LOCATED WHERE INDICATED. HOWEVER SOME SERVICES OUTSIDE OF THE EXTENT OF TRUNK SEWER WORKS ARE INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, ACCESS CHAMBERS ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED.

No.	DESCRIPTION	DIA. SEWER	CHAINAGE	FSL	ESL	TOP OF PIPE RL	DEPTH TO INVERT
I(A)	CONTRACTOR TO SET UP TEMPORARY BYPASS SYSTEM WITHIN DTMR ROAD CORRIDOR FOR EXTENT OF LOWERING WORKS TO MAINTAIN OPERATION OF RISING MAIN DURING LOWERING WORKS.						
I(B)	UPON COMPLETION OF NEW RISING MAIN INSTALLATION AND A SUCCESSFUL 'PRE LIVE' INSPECTION BEING HELD WITH GCWW, THE CONTRACTOR IS TO UNDERTAKE LIVE WORKS CUT OVER OF NEW RISING MAIN TO EXISTING TIE-IN LOCATIONS UNDER GCWW'S SUPERVISION AT DEVELOPER'S EXPENSE.	DN250 PE-100	0.000	6.071	6.071	5.083 (EX. RL)	0.988m (EX. COVER)
		DN250 PE-100	131.970	8.854	8.854	8.207 (EX. RL)	0.647m (EX. COVER)
I(C)	CONTRACTOR TO REMOVE TEMPORARY BYPASS SYSTEM FROM DTMR ROAD CORRIDOR UPON SUCCESSFUL CONNECTION OF NEW RISING MAIN TO EXISTING SYSTEM.						

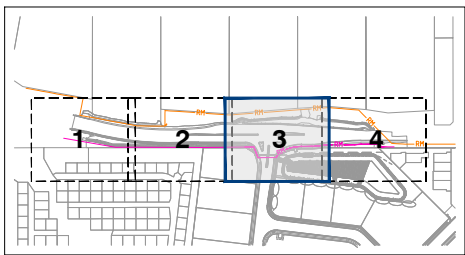
ABANDON PIPE AND GROUT FILL IN PLACE. RETAIN ON GCWW'S AS CONSTRUCTED RECORDS. NOTED AS ABANDONED FOR DTMR FUTURE REFERENCE.

Rev. No:
A



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

Drawing No:	Rev. No:
5941 ENG OPW1 605	A



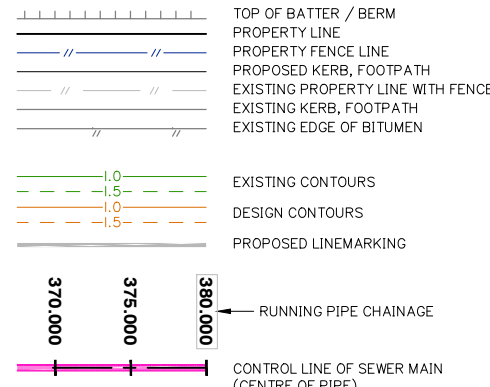
KEY PLAN
SCALE 1:5000

LIVE WORKS SCHEDULE

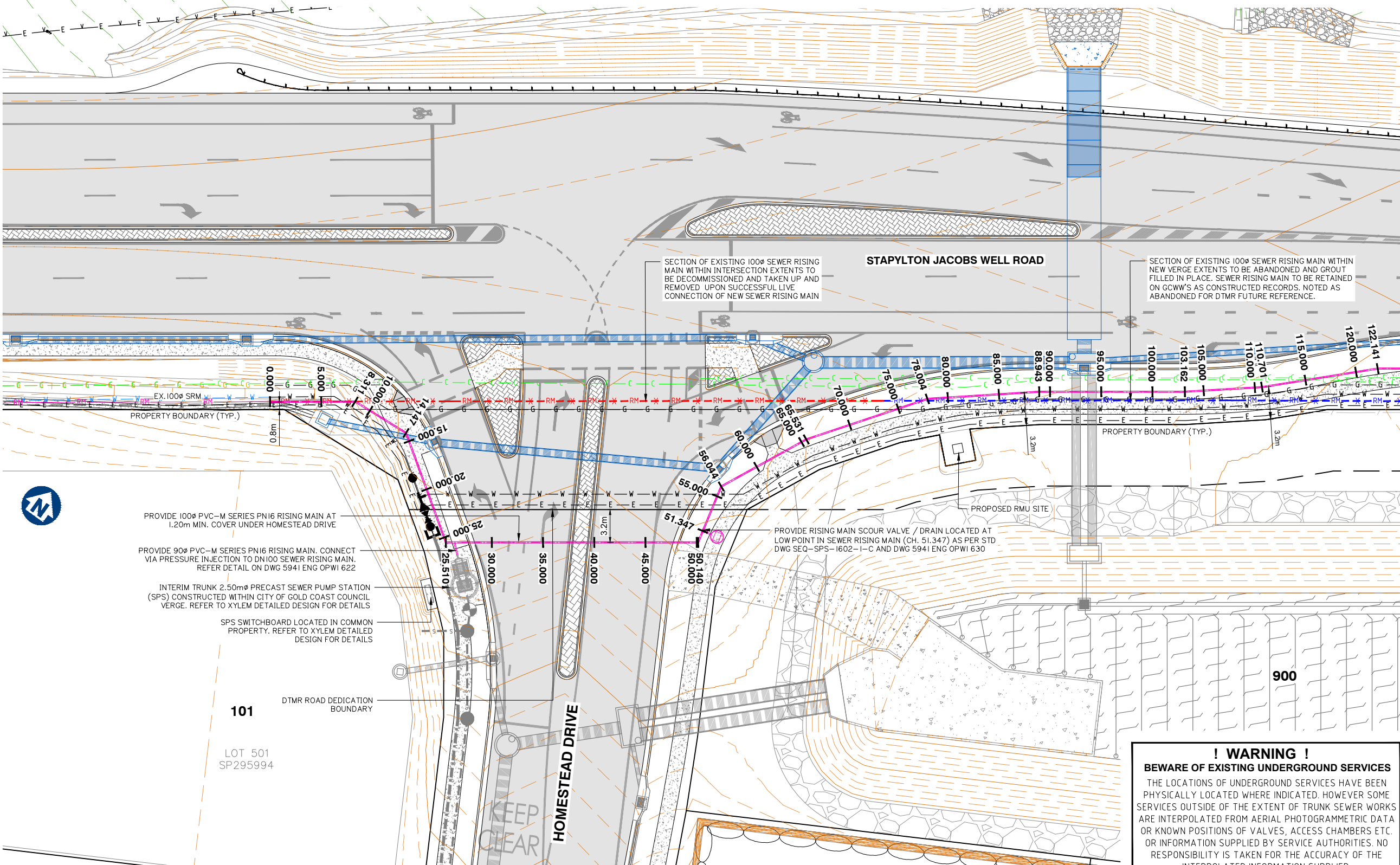
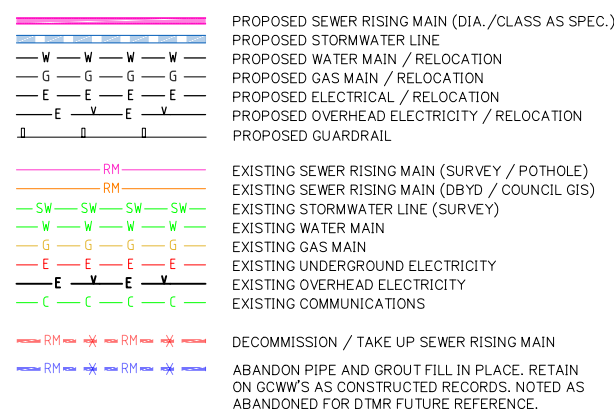
No.	DESCRIPTION	DIA. SEWER	CHAINAGE	FSL	ESL	TOP OF PIPE RL	DEPTH TO INVERT
I(A)	CONTRACTOR TO SET UP TEMPORARY BYPASS SYSTEM WITHIN DTMR ROAD CORRIDOR FOR EXTENT OF LOWERING /RELOCATION WORKS TO MAINTAIN OPERATION OF RISING MAIN DURING LOWERING/RELOCATION WORKS.						
I(B)	UPON COMPLETION OF NEW RISING MAIN INSTALLATION AND A SUCCESSFUL 'PRE LIVE' INSPECTION BEING HELD WITH GCWW, THE CONTRACTOR IS TO UNDERTAKE LIVE WORKS CUT OVER OF NEW RISING MAIN TO EXISTING TIE-IN LOCATIONS UNDER GCWW'S SUPERVISION AT DEVELOPER'S EXPENSE.	DN100	0.000	8.186	8.186	7.212 (EX. RL)	0.974m (EX. COVER)
I(C)	CONTRACTOR TO REMOVE TEMPORARY BYPASS SYSTEM FROM DTMR ROAD CORRIDOR UPON SUCCESSFUL CONNECTION OF NEW RISING MAIN TO EXISTING SYSTEM.	DN100	199.236	9.178	9.178	8.276 (EX. RL)	0.902m (EX. COVER)

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

FEATURE LEGEND



SERVICES LEGEND



1000 SEWER RISING MAIN LAYOUT PLAN SHEET 3 OF 4

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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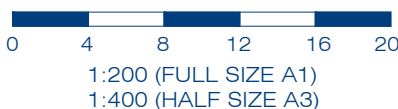
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DRAWING TITLE

1000 SEWER RISING MAIN
LAYOUT PLAN SHEET 3 OF 4

Issue	Date	Original Issue Description	BA	MG
A	12-03-2021			

SCALE IN METRES



Scale at A1: 1:200

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

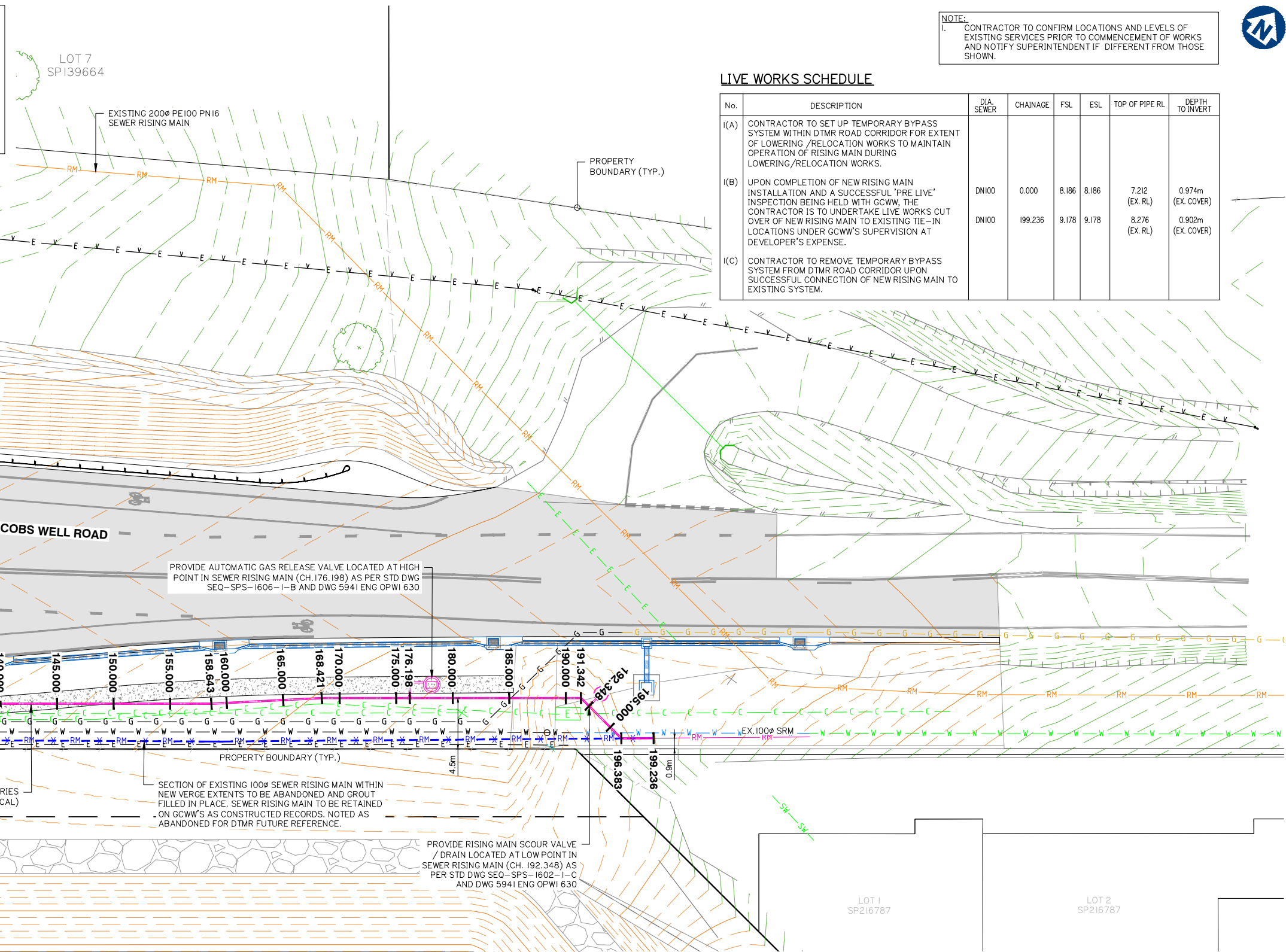
Drawing No:
5941 ENG OPW1 606

Rev. No:
A

! WARNING !
BEWARE OF EXISTING UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN PHYSICALLY LOCATED WHERE INDICATED. HOWEVER SOME SERVICES OUTSIDE OF THE EXTENT OF TRUNK SEWER WORKS ARE 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.

FOR CONTINUATION REFER SHEET No.5941 ENG OPW1 605

FOR CONTINUATION REFER SHEET No.5941 ENG OPW1 607



No.	DESCRIPTION	DIA. SEWER	CHAINAGE	FSL	ESL	TOP OF PIPE RL	DEPTH TO INVERT
I(A)	CONTRACTOR TO SET UP TEMPORARY BYPASS SYSTEM WITHIN DTMR ROAD CORRIDOR FOR EXTENT OF LOWERING /RELOCATION WORKS TO MAINTAIN OPERATION OF RISING MAIN DURING LOWERING/RELOCATION WORKS.						
I(B)	UPON COMPLETION OF NEW RISING MAIN INSTALLATION AND A SUCCESSFUL 'PRE LIVE' INSPECTION BEING HELD WITH GCWW, THE CONTRACTOR IS TO UNDERTAKE LIVE WORKS CUT OVER OF NEW RISING MAIN TO EXISTING TIE-IN LOCATIONS UNDER GCWW'S SUPERVISION AT DEVELOPER'S EXPENSE.	DN100	0.000	8.186	8.186	7.212 (EX. RL)	0.974m (EX. COVER)
		DN100	199.236	9.178	9.178	8.276 (EX. RL)	0.902m (EX. COVER)
I(C)	CONTRACTOR TO REMOVE TEMPORARY BYPASS SYSTEM FROM DTMR ROAD CORRIDOR UPON SUCCESSFUL CONNECTION OF NEW RISING MAIN TO EXISTING SYSTEM.						

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



VANTAGE YATALA STAGE 1

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

1000 SEWER RISING MAIN
LAYOUT PLAN SHEET 4 OF 4

0 4 8 12 16 20

1:200 (FULL SIZE A1)
1:400 (HALF SIZE A3)

Scale at A1:	1:200
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Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No:	Rev. No:
5941 ENG OPW1 607	A

FOR CONTINUATION REFER SHEET No.594| ENG OPWI 606

! WARNING !
BEWARE OF EXISTING UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN PHYSICALLY LOCATED WHERE INDICATED. HOWEVER SOME SERVICES OUTSIDE OF THE EXTENT OF TRUNK SEWER WORKS ARE 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.

TOP OF BATTER / BERM

PROPERTY LINE

PROPERTY FENCE LINE

PROPOSED KERB, FOOTPATH

EXISTING PROPERTY LINE WITH FENCE

EXISTING KERB, FOOTPATH

EXISTING EDGE OF BITUMEN

EXISTING CONTOURS

DESIGN CONTOURS

PROPOSED LINEMARKING

The diagram illustrates the relationship between Running Pipe Chainage and the Control Line of Sewer Main (Centre of Pipe). It shows a horizontal line representing the sewer main with three vertical tick marks. Above the line, the chainage values are listed: 370.000, 375.000, and 380.000. A label 'RUNNING PIPE CHAINAGE' with an arrow points to the 380.000 value. Below the line, a label 'CONTROL LINE OF SEWER MAIN (CENTRE OF PIPE)' is present.

PROPOSED SEWER RISING MAIN (DIA./CLASS AS SPEC.)

PROPOSED STORMWATER LINE

PROPOSED WATER MAIN / RELOCATION

PROPOSED GAS MAIN / RELOCATION

PROPOSED ELECTRICAL / RELOCATION

PROPOSED OVERHEAD ELECTRICITY / RELOCATION

PROPOSED GUARDRAIL

EXISTING SEWER RISING MAIN (SURVEY / POTHOLE)

EXISTING SEWER RISING MAIN (DBYD / COUNCIL GIS)

EXISTING STORMWATER LINE (SURVEY)

EXISTING WATER MAIN

EXISTING GAS MAIN

EXISTING UNDERGROUND ELECTRICITY

EXISTING OVERHEAD ELECTRICITY

EXISTING COMMUNICATIONS

DECOMMISSION / TAKE UP SEWER RISING MAIN

ABANDON PIPE AND GROUT FILL IN PLACE. RETAIN ON GCWW'S AS CONSTRUCTED RECORDS. NOTED AS ABANDONED FOR DTMF FUTURE REFERENCE.

G:\Projects\5941\ENGINEERING\Acad\CIVIL WORKS STAGE 1\Current\5941 ENG OPW1 604-607.dwg

100Ø SEWER RISING MAIN LAYOUT PLAN SHEET 4 OF 4

MAINTENANCE HOLE / SHAFT NAME

MH / MS COVER TYPE	
MH / MS TYPE	BND
MH / MS DROP TYPE	
LINE DEFLECTION ANG. & BRANCHES	
PROPERTY CONNECTION TYPE	
INTERNAL CORROSION PROTECTION	

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

RIGSS STRUCTURE TYPES
P3 1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH CONVERSION SLAB AND PRE-CAST BASE. INSTALL DUCTILE IRON COVER SEQ STD DWG SEQ-SEW-1300-1
J1 TYPE "J1" MAINTENANCE STRUCTURE 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) TO HAVE 300mm Ø PVC RISERS UNLESS NOTED OTHERWISE.
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 OPW1 030
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 SEWERS 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.
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.

DATUM RL	-5.000									3.000	
LOCATION DESCRIPTION	CoGC R/RESERVE	CoGC R/RESERVE	CoGC R/RESERVE	CoGC R/RESERVE	CoGC R/RESERVE	CoGC R/RESERVE	CoGC R/RESERVE	CoGC R/RESERVE	CoGC R/RESERVE	CoGC R/RESERVE	
PIPE SIZE (mm), MATERIAL & CLASS	150, uPVC SN8	150, uPVC SN8	150, uPVC SN8	150, uPVC SN8	150, uPVC SN8	150, uPVC SN8	150, uPVC SN8	150, uPVC SN8	150, uPVC SN8	150, uPVC SN8	
PIPE GRADE (1 IN X)	180	180	50	25	180	40	31.24	22.95	26.57	180	
PIPE LENGTH	2.400	2.109	8.558	21.332	34.117	6.349	40.465	40.465	40.465	40.465	
PIPE EMBEDMENT TYPE	4	4	4	4	4	4	4	4	4	4	
FINISHED (& EXISTING) SURFACE LEVEL	7.513 (6.263)	3.295 7.678 (6.363)	3.437 7.631 (6.558)	8.375 (9.112)	9.366 (10.426)	10.661 (12.632)	10.851 (13.011)	12.618 (15.884)	15.046 (19.072)	17.271 (21.944)	18.488 (22.962)
DEPTH TO PIPE INVERT BELOW FSL	3.144	3.295 3.296	3.437 3.437	3.77 3.74	3.678 3.777	4.883 3.385	3.417 2.226	2.698 1.996	2.663 1.963	2.84 2.815	3.807
PIPE INVERT LEVEL	4.369	4.383 4.382	4.394 4.434 4.490	4.605 4.635 5.439	5.488 5.588	5.778 7.276 7.399	7.434 8.625 9.170 9.881	9.92 10.62 12.330	12.383 13.083 14.390	14.431 14.456 14.674	14.681
PIPE CHAINAGE	20.459	22.859	24.968 27.985	33.526 53.157	54.857	88.974 93.622	95.322 112.438 134.087	135.787 174.553	176.253 215.018	216.718 255.483	257.183

LINE

1

SEWER RETICULATION LONGITUDINAL SECTIONS SHEET I OF II



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 1

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
LONGITUDINAL SECTIONS
SHEET 1 OF 11

F	12-03-2021	MINOR CHANGE	BA	MG
E	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
E	30-09-2020	AMENDED SEWER PIPE CLASS	BA	MG
D	11-09-2020	AMENDED SEWER STRUCTURES	BA	MG
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
A	01-05-2020	ORIGINAL ISSUE	BA	MG
ISSUE	Date	Description	DRN	CHK

SCALE IN METRES

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

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

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No: 5941 ENG OPW1 610 Rev. No: F

MAINTENANCE HOLE / SHAFT NAME

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

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

RIGSS STRUCTURE TYPES	
P3	1050mm DIA. PRE-CAST MAINTENANCE HOLE WITH CONVERSION SLAB AND PRE-CAST BASE. INSTALL DUCTILE IRON COVER SEQ STD DWG SEQ-SEW-1300-1
JI	TYPE "JI" MAINTENANCE STRUCTURE SEQ STD DWG SEQ-SEW-1314-2
BND	LONG RADIUS BEND (R3.0m) SEQ STD DWG SEQ-SEW-1314-3

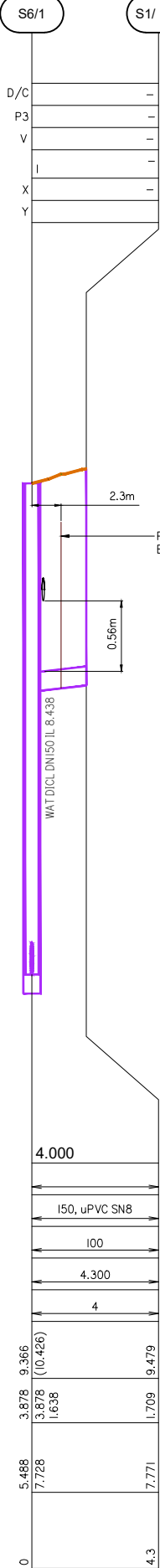
RIGSS PROPERTY CONNECTION TYPES	
V	STRAIGHT THROUGH SEWER (250mm MAX. DROP FOR 150ø) SEQ STD DWG SEQ-SEW-1303-1
W	OBLIQUE 45° "Y" JUNCTION (250mm-600mm DROP FOR 150ø) SEQ STD DWG SEQ-SEW-1303-1
X	INTERNAL BACKDROP (600mm MIN. DROP FOR 150ø) SEQ STD DWG SEQ-SEW-1303-1
Z	DROP JUNCTION TO DN300 RISER OF 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) TO HAVE 300mmø PVC RISERS UNLESS NOTED OTHERWISE.
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
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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 SEWERS 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.
11	ALL MAINTAINANCE 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.

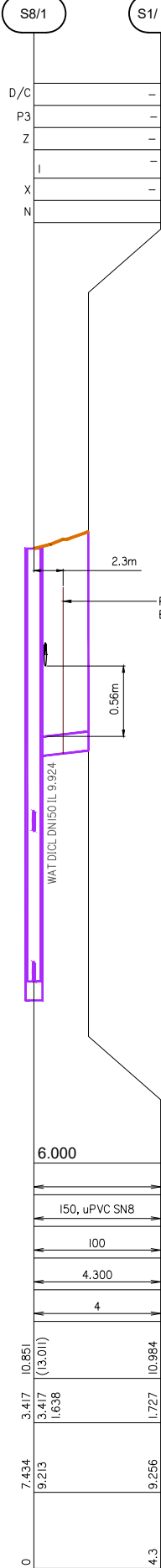
DATUM RL	3.000
LOCATION DESCRIPTION	
PIPE SIZE (mm), MATERIAL & CLASS	150, uPVC SN8
PIPE GRADE (1 IN X)	100
PIPE LENGTH	4.419
PIPE EMBEDMENT TYPE	4
FINISHED (& EXISTING) SURFACE LEVEL	7.831 (7.831) 6.219 (6.219) 6.223 (6.223) 6.231 (6.231)
DEPTH TO PIPE INVERT BELOW FSL	3.437 (3.437) 2.45 (2.45) 2.45 (2.45)
PIPE INVERT LEVEL	4.394 (4.394) 0.925 (0.925) 1.593 (1.593)
PIPE CHAINAGE	0 (0) 4.419 (4.419)

LINE

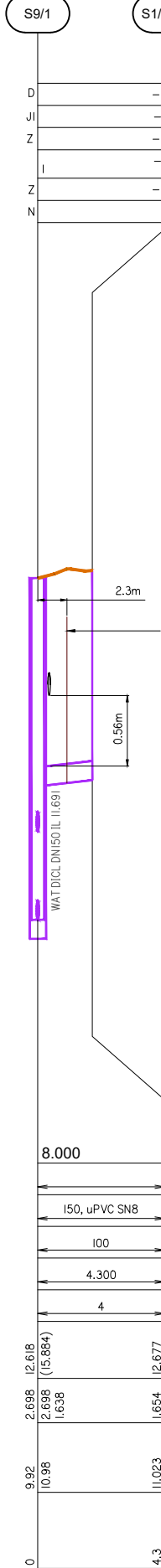
101



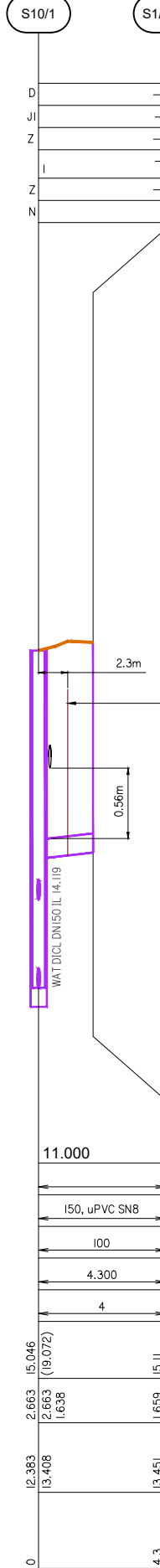
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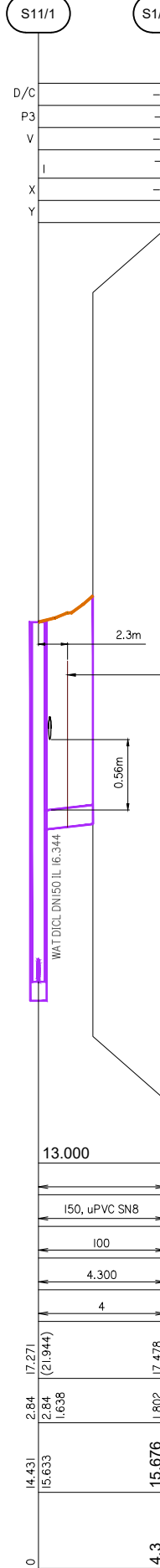
103



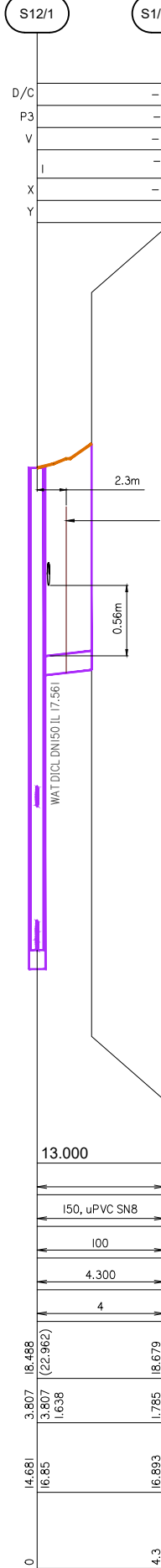
104



105



106



107

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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DRAWING TITLE
SEWER RETICULATION
LONGITUDINAL SECTIONS
SHEET 8 OF 11

Issue	Date	Description	BA	MG	CHK
F	12-03-2021	MINOR CHANGE	BA	MG	
E	28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG	
E	30-09-2020	AMENDED SEWER PIPE CLASS	BA	MG	
D	11-09-2020	AMENDED SEWER STRUCTURES	BA	MG	
C	02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG	
B	12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG	
A	01-05-2020	ORIGINAL ISSUE	BA	MG	

SCALE IN METRES

Scale 1:250 - Lengths are in Metres.
HORZ: 0 2 4 6 8 10 12 14 16 18 20

Scale 1:25 - Lengths are in Metres.
VERT: 0 0.25 0.5 0.75 1 1.25 1.5 1.75 2.0

Scale at A1: AS SHOWN

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No:
5941 ENG OPW1 617

Rev. No:
F



12-03-2021	ORIGINAL ISSUE	BA
Date	Description	DRN

VERT: 1:40 (FULL SIZE A1)

Segment	Value
1	0
2	0.8
3	1.6
4	2.4
5	3.0

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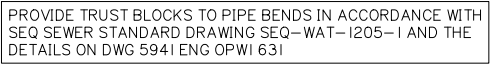
Approved:	MG
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PEQ:	16939
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Signed: 

ate: 12-03-2021

Drawing No:	Rev. N
041 ENG OPW1 623	A



DN250 PE-100 PN16 SEWER RISING MAIN RELOCATION - SETOUT TABLE					
PT	CHAINAGE	EASTING	NORTHING	TOP OF PIPE	BEARING
IP 1	0.000	1958.929	6926.455	5.083	154°49'50.54"
	5.000	1961.056	6921.930	5.118	154°49'50.54"
	10.000	1963.182	6917.404	5.153	154°49'50.54"
	15.000	1965.309	6912.879	5.188	154°49'50.54"
	15.247	1965.414	6912.655	5.190	
IP 3	16.664	1966.087	6911.409	5.200	
	20.000	1969.105	6912.830	5.281	64°47'11.48"
	25.000	1973.629	6914.960	5.402	64°47'11.48"
	30.000	1978.152	6917.090	5.523	64°47'11.48"
	35.000	1982.676	6919.220	5.645	64°47'11.48"
	40.000	1987.199	6921.350	5.766	64°47'11.48"
	45.000	1991.723	6923.480	5.887	64°47'11.48"
	50.000	1996.247	6925.610	6.008	64°47'11.48"
	55.000	2000.770	6927.740	6.130	64°47'11.48"
	60.000	2005.294	6929.870	6.251	64°47'11.48"
	65.000	2009.818	6932.000	6.372	64°47'11.48"
	70.000	2014.341	6934.130	6.493	64°47'11.48"
	75.000	2018.865	6936.260	6.615	64°47'11.48"
	80.000	2023.389	6938.390	6.736	64°47'11.48"
	85.000	2027.912	6940.519	6.857	64°47'11.48"
	90.000	2032.436	6942.649	6.978	64°47'11.48"
	IP 4	93.351	2035.468	6944.077	7.060
95.000		2036.813	6945.030	7.107	54°42'27.26"
100.000		2040.895	6947.918	7.249	54°42'27.26"
105.000		2044.976	6950.807	7.391	54°42'27.26"
110.000		2049.057	6953.696	7.534	54°42'27.26"
115.000		2053.138	6956.585	7.676	54°42'27.26"
120.000		2057.219	6959.473	7.819	54°42'27.26"
125.000		2061.300	6962.362	7.961	54°42'27.26"
	130.000	2065.381	6965.251	8.104	54°42'27.26"
	130.543	2065.824	6965.564	8.119	
IP 6	131.970	2064.968	6966.707	8.207	323°09'58.06"

250Ø SEWER RISING MAIN LONGITUDINAL SECTION SHEET 3 OF 3

SCALE IN METRES

HOZ: 1:400 (FULL SIZE A1)



VERT: 1:40 (FULL SIZE A1)



The diagram shows two horizontal scale bars. The top bar is for the horizontal scale (HOZ) at 1:400, with markings at 0, 8, 16, 24, and 32 metres. The bottom bar is for the vertical scale (VERT) at 1:40, with markings at 0, 0.8, 1.6, 2.4, and 3.2 metres. Both bars are labeled '1:400 (FULL SIZE A1)' and '1:40 (FULL SIZE A1)' respectively.

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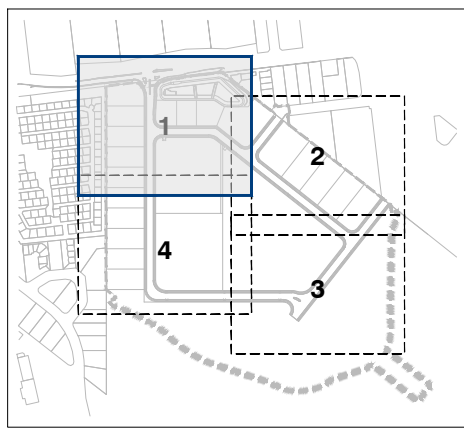
PEQ:	16939
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Signed: 

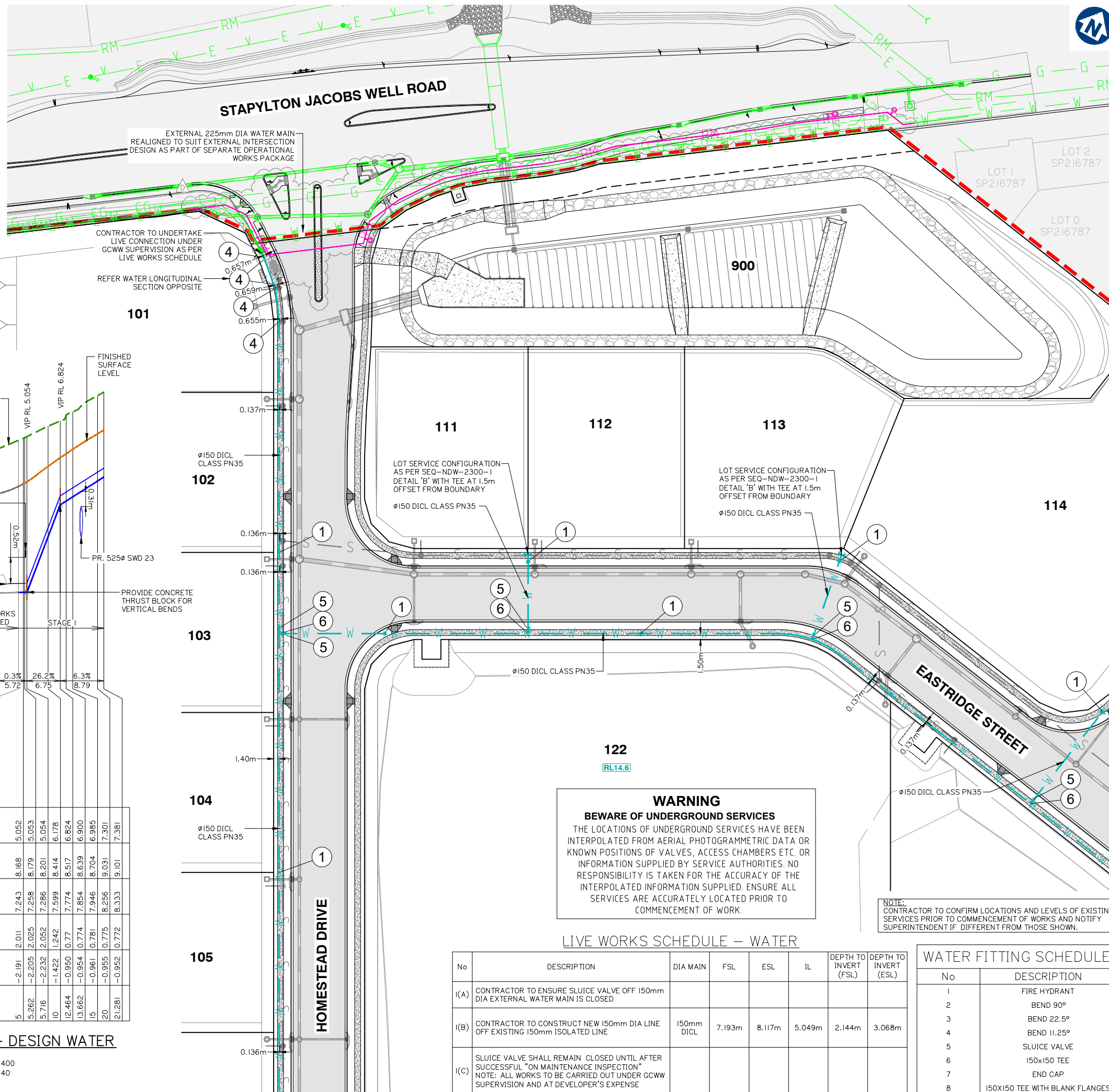
ate: 12-03-2021

Drawing No: Rev. N
041 ENG OPW1 624 A





KEY PLAN
SCALE 1: 7500



DATUM RL = 0.700							
PIPE INVERT LEVEL							
EXISTING SURFACE LEVEL							
FINISHED SURFACE LEVEL							
COVER TO PIPE							
DEPTH TO PIPE INVERT							
PIPE CHAINAGE							

LONGITUDINAL SECTION – DESIGN WATER

AI HORIZ SCALE: 1: 400
AI VERT SCALE: 1: 40

Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project:

VANTAGE YATALA
STAGE 1

Site Address:

60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

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

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

WATER RETICULATION
LAYOUT PLAN SHEET 1 OF 4

Date	Description	BA	MG
12-03-2021	MINOR CHANGE	BA	MG
28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
01-05-2020	ORIGINAL ISSUE	BA	MG

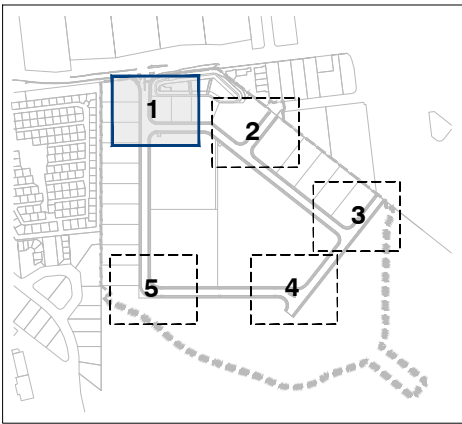
SCALE IN METRES

0 10 20 30 40 50
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

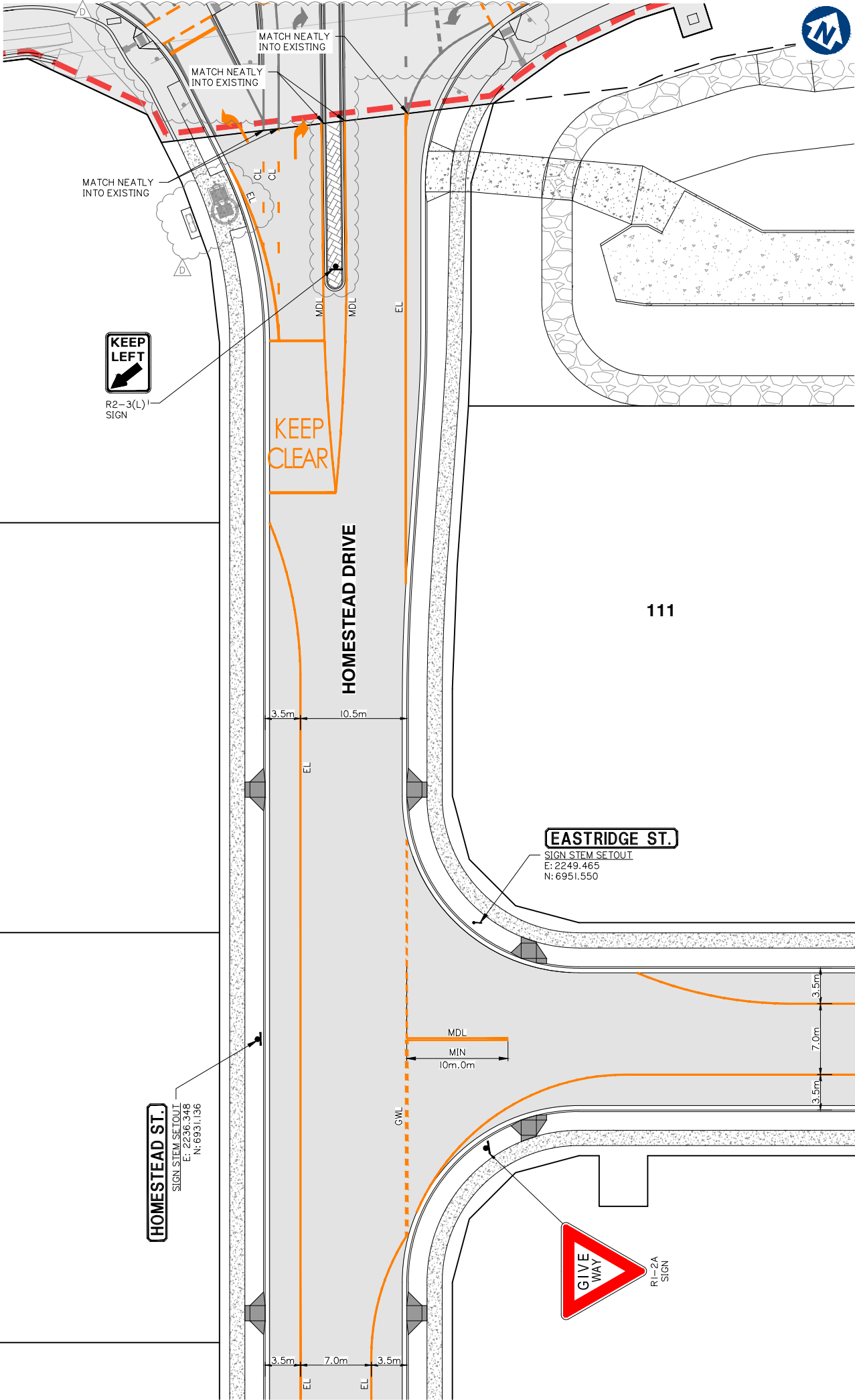
Scale at A1: 1:500

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021

Drawing No: 5941 ENG OPW1 700
Rev. No: D



KEY PLAN
SCALE 1: 7500



- NOTE:
1. ALL LINE-MARKING, SIGNAGE AND REFLECTORISED PAVEMENT MARKERS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT DEPARTMENT OF MAIN ROADS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
 2. EXTENT OF LINE-MARKING IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
 3. EXACT LOCATION OF ALL SIGNS IS TO BE VERIFIED ON SITE WITH THE SUPERINTENDENT PRIOR TO INSTALLATION.
 4. ALL SIGN POSTS & SIGN RAILS TO BE GALVANISED UNLESS NOTED OTHERWISE.
 5. ALL TRAFFIC SIGNS TO BE SIZE "B" UNLESS NOTED OTHERWISE.
 6. FOR GUIDE POST INSTALLATION AND DETAILS, REFER DEPARTMENT OF MAIN ROADS STANDARD DRAWING No.1356
 7. FOR TRAFFIC SIGN SUPPORT DETAILS, REFER DEPARTMENT OF MAIN ROADS STANDARD DRAWING No.'s 1360 AND 1362
 8. ALL ROUTE NAMES ON NEW GUIDE SIGNS TO BE BLACK LETTERING ON WHITE BACKGROUND U.N.O.
 9. ALL SIGN MATERIAL TO BE CLASS I.
 10. ALL LINEMARKING TO BE REFLECTORISED WHITE.

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

600mm STRIPE AND GAP

Date	Description	BA	MG
12-03-2021	MINOR CHANGE	BA	MG
28-10-2020	ISSUED FOR CONSTRUCTION	BA	MG
02-09-2020	MINOR CHANGE TO STAGE 1	BA	MG
12-06-2020	INFORMATION REQUEST RESPONSE	BA	MG
01-05-2020	ORIGINAL ISSUE	BA	MG

SCALE IN METRES



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

Scale at A1: 1:250

Designed:	IG
Drafted:	BA
Approved:	MG
RPEQ:	16939
Signed:	
Date:	12-03-2021