

DATE PLOTTED: 22 March 2022 9:02 AM BY : LLOYD HARRIOTT

XREF's: X: 72194901 - CONTS EX: X: 72194901 - EX FEATURES: X: 72194901 - CUT FILL: X: 72194901 - CONTS DES: X: 72194901 - BASE: X: 721993 Base: X: 721993 Ex Feat: X: 721993 - A1 Title Sheet
CAD File: \\laugonv02\Projects\42011721993 - EDO Masterplan Trunk Infrastructure\01 - DESIGN PHASE\Drawings\721993 - Lumina Future Lots.dwg

SEWER RETICULATION NOTES :

- ALL CONSTRUCTION TO BE IN STRICT ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND (SEQ) SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- SEWER MAIN PIPES AND FITTINGS SHALL BE Ø150 RRJ, CLASS SN8 UNLESS NOTED OTHERWISE.
- ROAD CROSSING HOUSE CONNECTION BRANCHES TO BE Ø150 uPVC CLASS SN8.
- ALL CONNECTIONS TO LIVE SEWERS TO BE CARRIED OUT BY THE CONTRACTOR UNDER THE SUPERVISION OF GOLD COAST WATER AT THE CONTRACTOR'S COST.
- THE ALIGNMENT OF THE SEWER WITHIN ROAD RESERVES SHALL BE 1.6m FROM THE PROPERTY BOUNDARY. ALIGNMENT SHALL BE 2.6m WHEN WATER LOCATED ON SAME SIDE OF ROAD. IN AN EASEMENT WITH INTERALLOTMENT DRAINAGE, THE DISTANCE FROM THE BOUNDARY TO THE SEWER SHALL BE 2.5m, OTHERWISE SEWER WITHIN LOTS SHALL BE 1.5m FROM THE PROPERTY BOUNDARY U.N.O.
- FOR REDUCED INFILTRATION GRAVITY SEWER (RIGS) REFER TO THE SEQ SEWER DRAWINGS.
- ALL HOUSE CONNECTIONS SHALL BE TERMINATED IN ACCORDANCE WITH THE HOUSE CONNECTION INSPECTION TEE, REFER TYPICAL SERVICE ALLOCATION DETAILS 7124/15/07-103 AND LOCATION MARKER ARRANGEMENT DETAIL ON SEQ-SEW-1104-1 & SEQ-SEW-1105-1.
- HOUSE CONNECTIONS SHALL NOT BE LOCATED WITHIN THE ZONE OF INFLUENCE OF RETAINING WALLS.
- ALL SEWER MANHOLE LIDS TO BE AS PER SEQ-SEW-1308-1,
- ALL TRENCH BACKFILL MATERIAL SHALL BE IN ACCORDANCE WITH SEQ STD DWG No. SEQ-SEW-1200-2 AND SEQ-SEW-1201-1.
- ALL SEWER MANHOLES WITHIN 100m OF RECEIVING MANHOLE TO BE PE LINED FOR CORROSION PROTECTION, AND HAVE NON-CORROSIVE COMPOSITE LIDS.

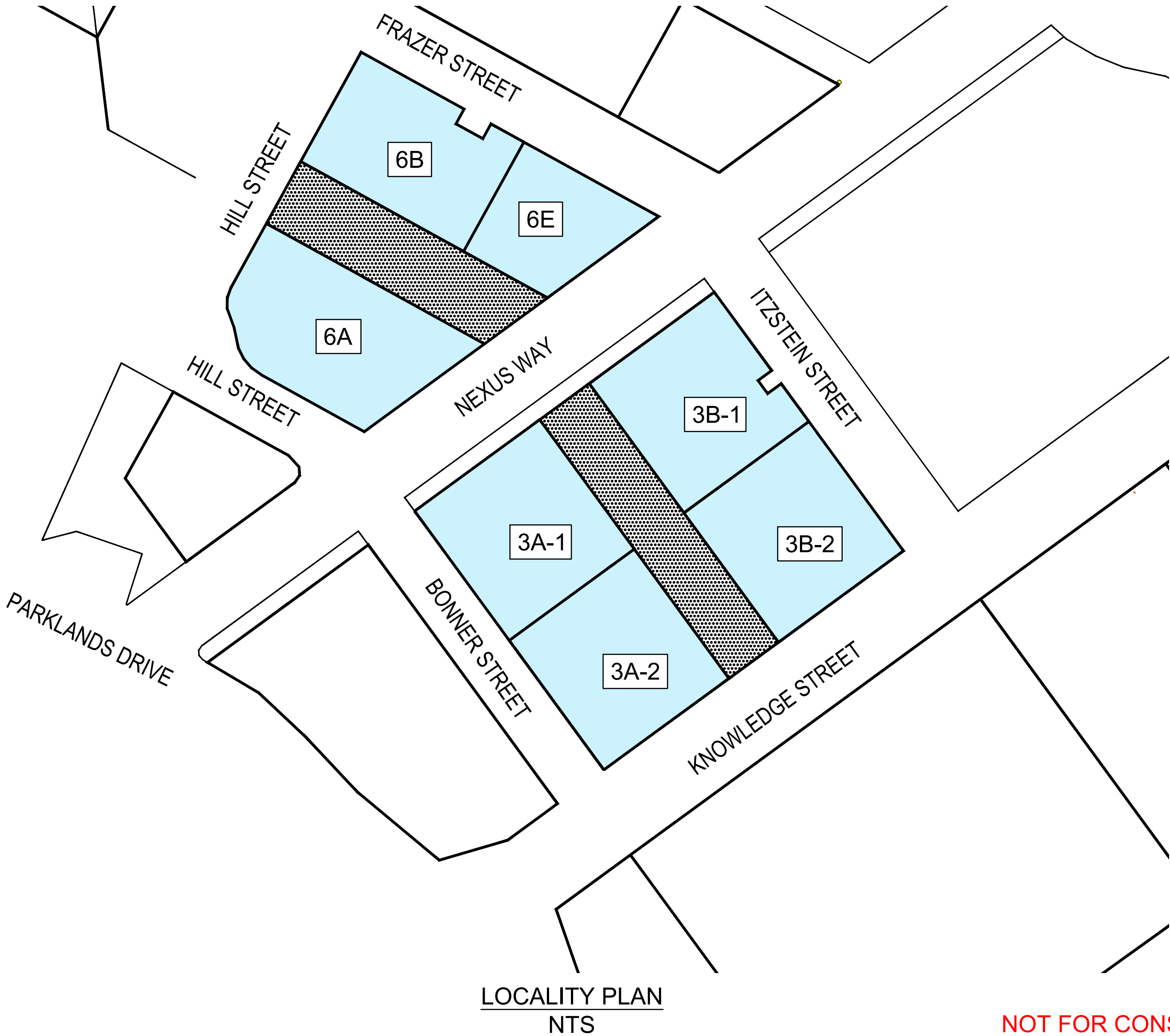
WATER NOTES:

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH SEQ-WAT-1106-1.
- ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP's ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY THE SEQ-SP.
- TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING No. SEQ-WAT-1410-1.
- THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
- ALL POTABLE WATER MAINS SHALL BE CONSTRUCTED ON A 1.5m ALIGNMENT FROM THE PROPERTY BOUNDARY UNLESS NOTED OTHERWISE.
- DICL PN35 SHALL BE USED TO 1.0m BEYOND BACK OF KERB AND CHANNEL UNDER ALL ROAD PAVEMENTS. ALL OTHER RETICULATION MAINS TO BE PVC SERIES 2 PN16 UNLESS NOTED OTHERWISE. ALL DICL PIPES AND FITTINGS SHALL BE TREATED INTERNALLY AND EXTERNALLY WITH CORROSION PROTECTIVE COATING AS PER AS 2280.
- CONNECTION TO EXISTING LIVE WATER MAINS SHALL BE CARRIED OUT BY DEVELOPER APPROVED CONTRACTOR UNDER THE SUPERVISION OF GOLD COAST WATER AT DEVELOPERS EXPENSES. CONTRACTOR TO LIAISE WITH GCWW TO CONFIRM APPROPRIATE CONNECTION METHODOLOGY.
- WATER SERVICES SHALL BE PROVIDED WHERE SHOWN ON DRAWINGS. CONSTRUCTION TO BE IN ACCORDANCE WITH SEQ STD DWG No.s SEQ-WAT-1106-1 AND SEQ-WAT-1106-2.
- WATER SERVICE LOCATIONS SHALL NOT CONFLICT WITH ENERGEX PITS.
- ALL THRUST BLOCKS SHALL BE IN ACCORDANCE WITH SEQ STD DWG No.s SEQ-WAT-1200-1 AND SEQ-WAT-1205-1.
- MARKING FOR LOCATION OF HYDRANTS, VALVES AND OTHER FITTINGS SHALL BE IN ACCORDANCE WITH SEQ. STD DWG No.s SEQ-WAT-1300-1 AND SEQ-WAT-1300-2.
- THE CONTRACTOR SHALL OBTAIN THE LOCATION OF ALL SERVICES AND PROTECT THESE SERVICES PRIOR TO WORKING IN THE VICINITY. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- ALL TRENCH BACK FILL MATERIAL TO BE IN ACCORDANCE WITH SEQ STD DWG No.s SEQ-WAT-1200-2, SEQ-WAT-1201-1, SEQ-WAT-1202-1, SEQ-WAT-1203-1 AND SEQ-WAT-1204-1.

LEGEND:

- SITE BOUNDARY
- PROPOSED WATER MAIN
- PROPOSED SEWER MAIN
- POSSIBLE GAS CONNECTION POINT
- PROPOSED FIELD INLET AND STORMWATER CONNECTION
- EXISTING WATER MAIN
- EXISTING STORMWATER
- EXISTING SEWER MAIN
- EXISTING TELECOMMUNICATIONS / NBN
- EXISTING ELECTRICITY
- EXISTING COMMUNICATIONS
- EXISTING GAS MAIN

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL
Approval no: DEV2022/1311
Date: 20 December 2022



Queensland Government

B	22/03/2022	ISSUED FOR APPROVAL	DD	BF	LH
A	17/12/2021	ISSUED FOR INFORMATION	DD	SC	LH
Rev.	Date	Description	Des.	Verif.	Appd.

Cardno
Shaping the Future

Cardno (Qld) Pty Ltd | ABN 57 051 074 992
Level 2 - Podium Level, Emerald Lakes Town Centre
1/3321 Central Place, Carrara QLD 4211
Tel: 07 5539 9333 Fax: 07 5538 4647
Web: www.cardno.com.au

Drawn	JB	Date	17/12/2021
Checked	SC	Date	17/12/2021
Designed	DD	Date	17/12/2021
Verified	SC	Date	17/12/2021
Approved			

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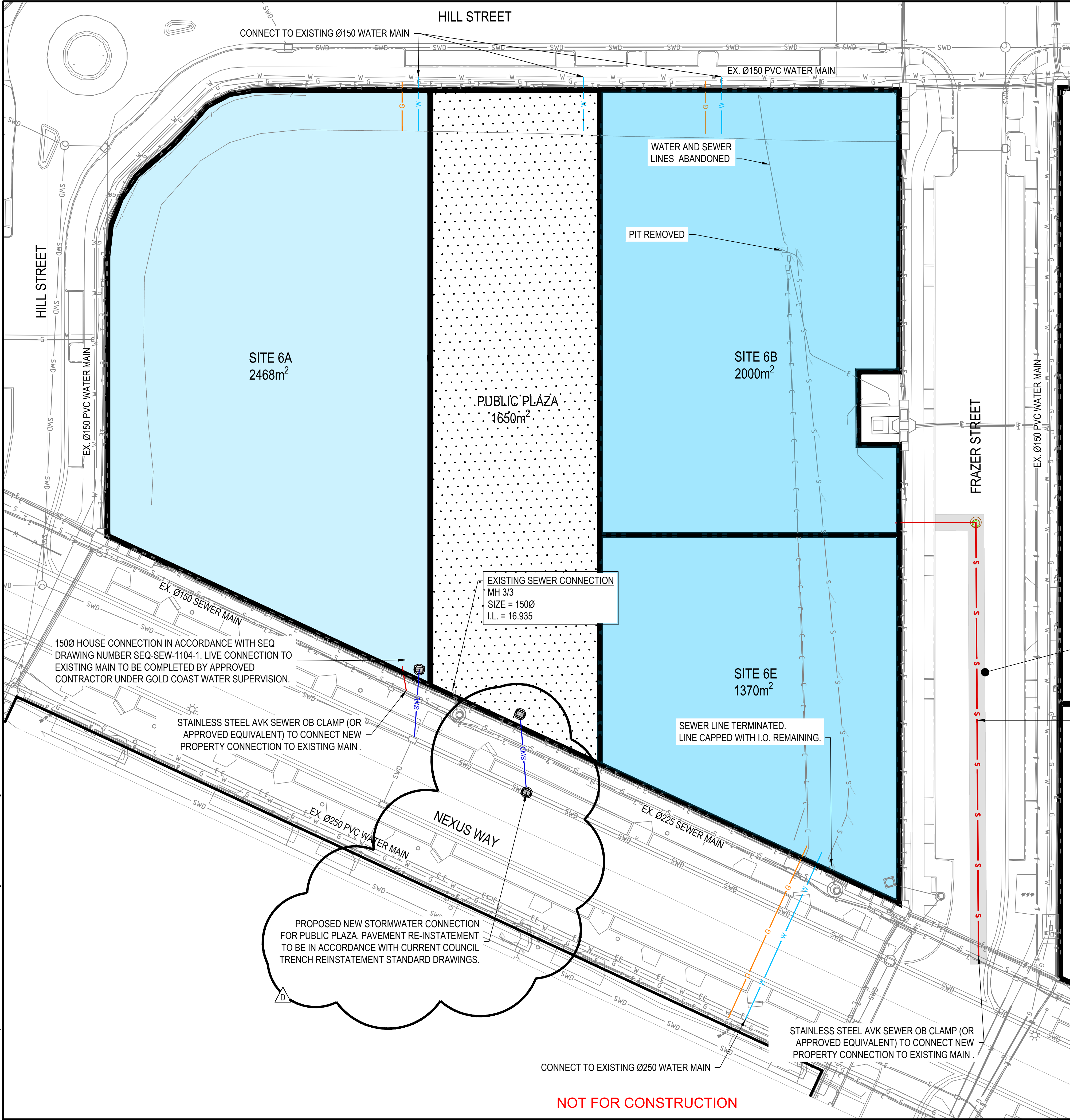
Project **LUMINA - FUTURE LOTS**

Title **NOTES AND LEGEND**

Status **FOR APPROVAL**
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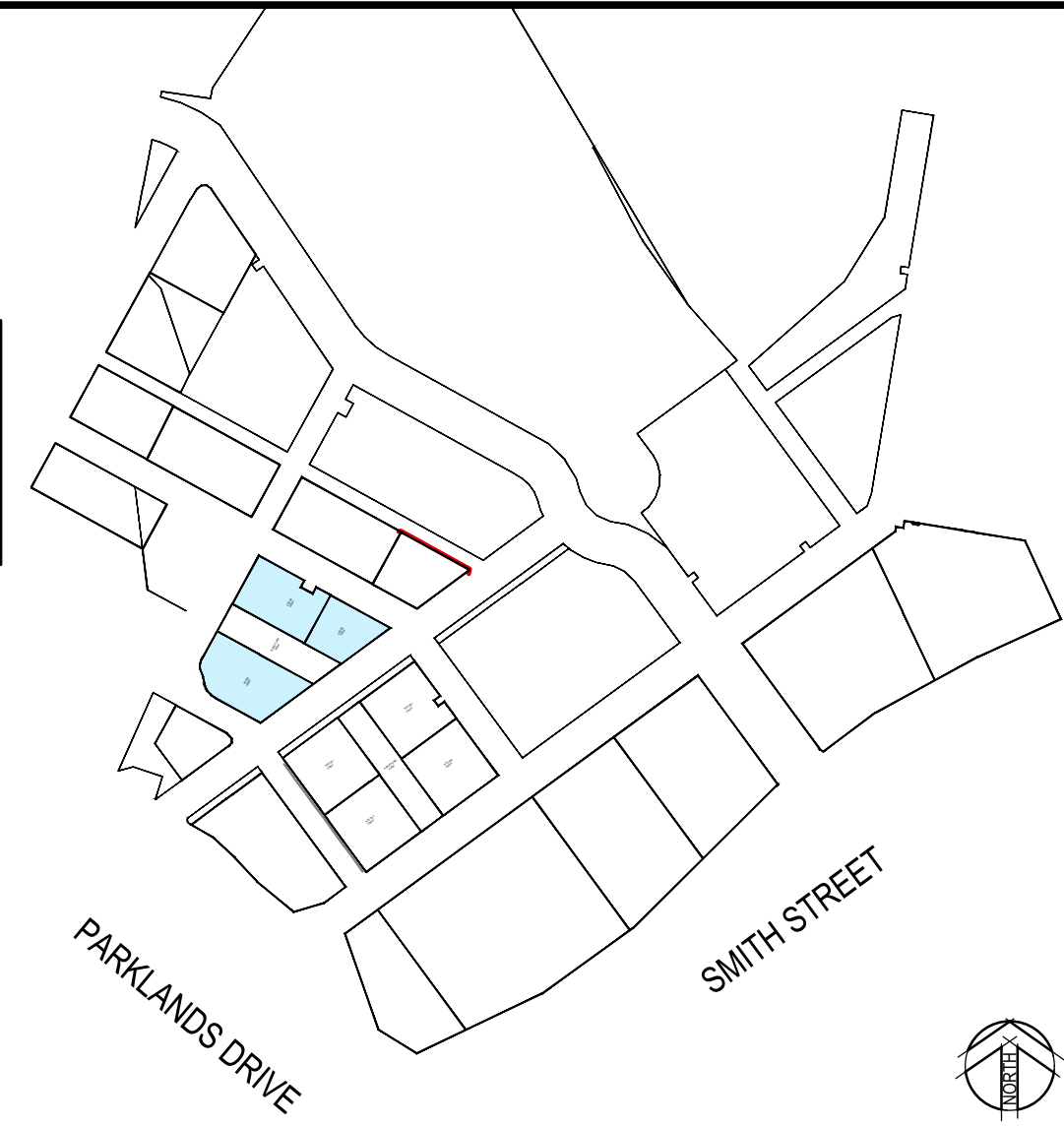
Datum	AHD	Scale	AS SHOWN	Size	A1
Drawing Number	721993-CI-001				Revision
					B

XREF's: X_72194901 - CONTS EX: X_72194901 - EX FEATURES: X_72194901 - CUT FILL: X_72194901 - CONTS DES: X_72194901 - BASE: X_721993 Base: X_721993 Ex Feet: X_721993 - A1 Title Sheet
CAD File: A721993 - EDO Masterplan Trunk Infrastructure01 - DESIGN PHASE Drawings721993 - Lumina Future Lots.dwg



WATER METER:
LOW RISK WATER METER APPLICATIONS FOR LOT 6A, 6B, 6E AND PLAZA TO BE COMPLETED BY HYDRAULIC CONTRACTOR. EXISTING WATER METERS TO BE REMOVED. SIZING REQUIRED BY BUILDING HYDRAULIC ENGINEER.

NOTE: GAS CONDUITS SHOWN AS POTENTIAL CONNECTION POINTS ONLY. TBC AT BUILDING STAGE.



WARNING
BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, MANHOLES 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.

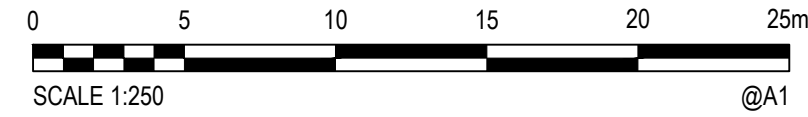
SURVEY DATA DISCLAIMER:
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NOTE:
1. REFER TO DWG 721993-CI-001 FOR NOTES AND LEGEND.

EXCAVATE FOR NEW PROPERTY CONNECTION. RE-INSTATE PAVEMENT AND SURFACING IN ACCORDANCE WITH SEQ-SEQ-1205-1 STANDARD DRAWING.

NEW 150Ø SEWER MAIN EXTENSION. LIVE CONNECTION TO EXISTING MAIN TO BE COMPLETED BY APPROVED CONTRACTOR UNDER GOLD COAST WATER SUPERVISION.

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D	13/09/2022	ISSUED FOR APPROVAL	DD	BF	LH
C	23/03/2022	ISSUED FOR APPROVAL	DD	BF	LH
B	24/02/2022	ISSUED FOR INFORMATION	DD	SC	LH
A	17/12/2021	ISSUED FOR INFORMATION	DD	SC	LH
Rev.	Date	Description	Des.	Verif.	Appd.

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Cardno (Qld) Pty Ltd | ABN 57 051 074 992
Level 2 - Podium Level, Emerald Lakes Town Centre
1/3321 Central Place, Camerra QLD 4211
Tel: 07 5539 9333, Fax: 07 5538 4647
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DD	17/12/2021	
Verified	Date	
SC	17/12/2021	
Approved		

Client **EDQ - DSDT & I**

Project **LUMINA - FUTURE LOTS**

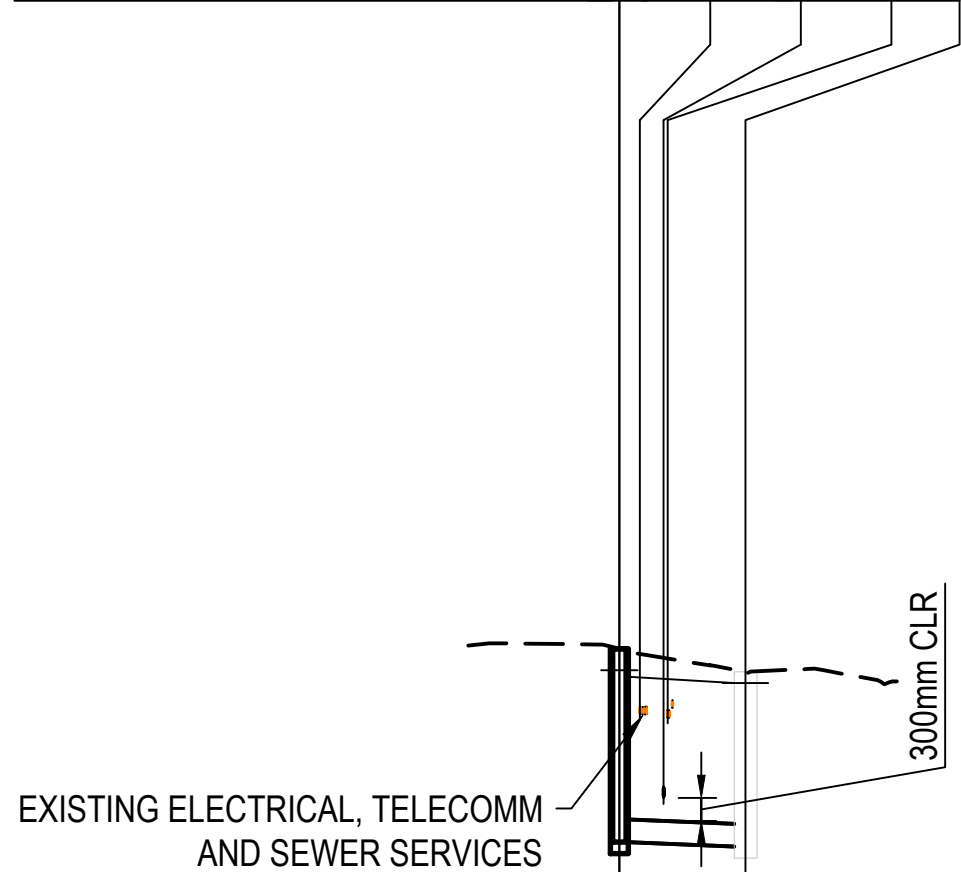
Title **PRECINCT 6
OVERALL SERVICES CONNECTION PLAN**

Status **FOR APPROVAL**
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum	AHD	Scale	AS SHOWN	Size	A1
Drawing Number	721993-CI-003				Revision
					D

NOT FOR CONSTRUCTION

STRUCTURE NAME	F1/1
STRUCTURE DESCRIPTION	FIELD INLET 900x600 TYPE 2 ON STD. 1050 DIA MH 4x Ø100 EX ELEC / TELECOMM IL 18.06 EX Ø150 SEWER IL 16.95 3x Ø100 EX ELEC / TELECOMM IL 18.01 - 18.15 EXISTING GULLY PIT



PIPE SIZE mm	300
PIPE CLASS	(PVC)
PIPE GRADE (%)	0.80%
PIPE SLOPE (1 in X)	125.00
FULL PIPE VELOCITY (m/s)	1.79
PART FULL VELOCITY (m/s)	1.79

DATUM RL. 3.000

W.S.E IN STRUCTURE	18.641	18.471
HYDRAULIC GRADE LINE	18.559	18.471

PIPE FLOW (CUMECs)	0.127
PIPE CAPACITY AT GRADE (CUMECs)	0.102

DEPTH TO INVERT	2.56	2.24
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INVERT LEVELS	16.367	16.310
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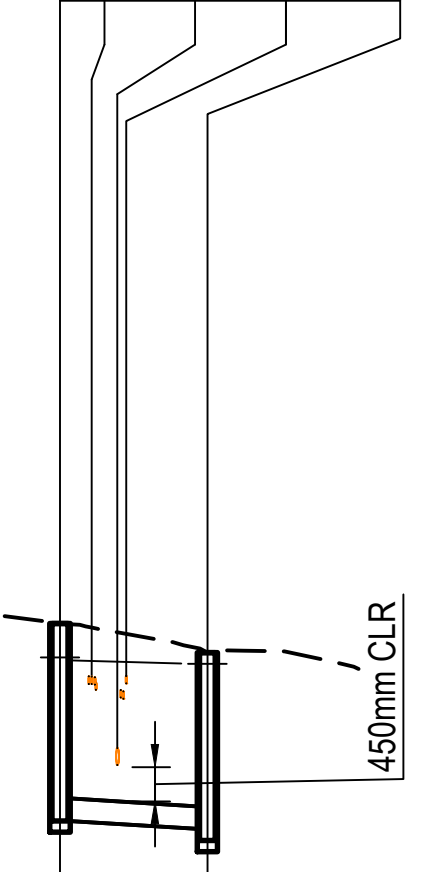
DESIGN SURFACE LEVELS (EXISTING SURFACE LEVELS)	18.924 (18.924)	18.621 (18.621)
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STRUCTURE EASTING NORTHING	5537933.671 N6906931.548	5537940.306 N6906926.491
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RUNNING CHAINAGE	0.000	7.143
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LINE
SCALE H 1:1000, V 1:100

STRUCTURE NAME	F2/2
STRUCTURE DESCRIPTION	FIELD INLET 900x600 TYPE 2 ON STD. 1050 DIA MH 4x Ø100 EX ELEC / TELECOMM IL 17.38 - 17.46 EX Ø225 SEWER IL 16.39 3x Ø100 EX ELEC / TELECOMM IL 17.26 - 17.47 STD. 1050 DIA MH WITH V GRATE



PIPE SIZE mm	300
PIPE CLASS	(PVC)
PIPE GRADE (%)	1.25%
PIPE SLOPE (1 in X)	80.00
FULL PIPE VELOCITY (m/s)	1.20
PART FULL VELOCITY (m/s)	1.93

DATUM RL. 2.000

W.S.E IN STRUCTURE	17.811	17.726
HYDRAULIC GRADE LINE	17.774	17.726

PIPE FLOW (CUMECs)	0.085
PIPE CAPACITY AT GRADE (CUMECs)	0.128

DEPTH TO INVERT	2.61	2.34
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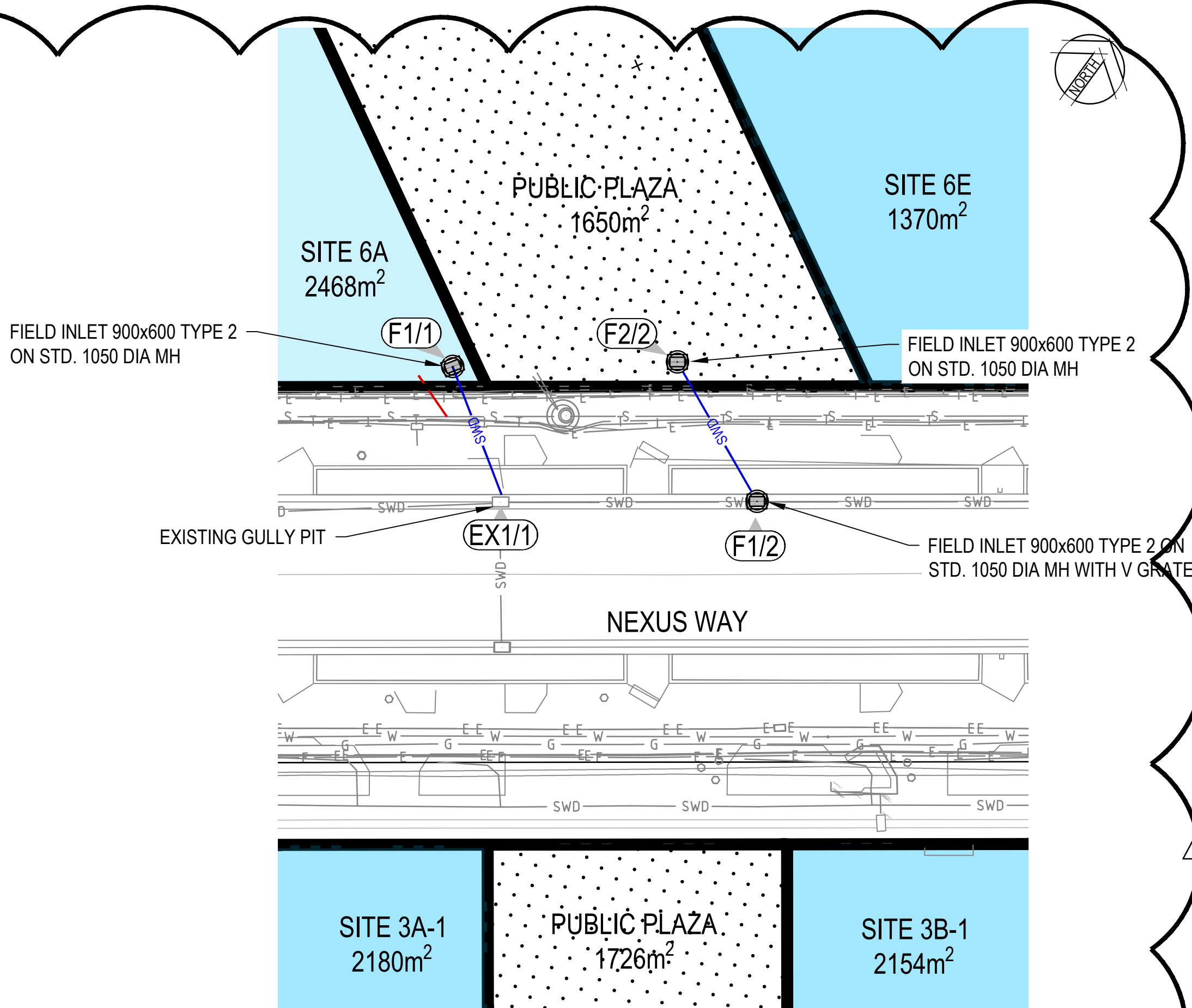
INVERT LEVELS	15.649	15.540
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DESIGN SURFACE LEVELS (EXISTING SURFACE LEVELS)	18.261 (18.261)	17.876 (17.876)
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STRUCTURE EASTING NORTHING	5537943.965 N6906933.689	5537952.859 N6906935.693
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RUNNING CHAINAGE	0.000	8.701
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LINE
SCALE H 1:1000, V 1:100



NOTES

- REINSTATE ALL SURFACE WORKS TO ORIGINAL.
- ALL EXISTING SERVICES TO BE LOCATED, EXPOSED AND PROTECTED DURING WORKS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING 721993-CI-001, GENERAL NOTES AND DETAILS.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH CoGC CITY PLAN POLICY SC6.11 - LAND DEVELOPMENT GUIDELINES
- PLAZA HYDRAULIC ENGINEER TO ENSURE ALL INTERNAL FLOWS ARE CONVEYED TO F2/2.

LEGEND:

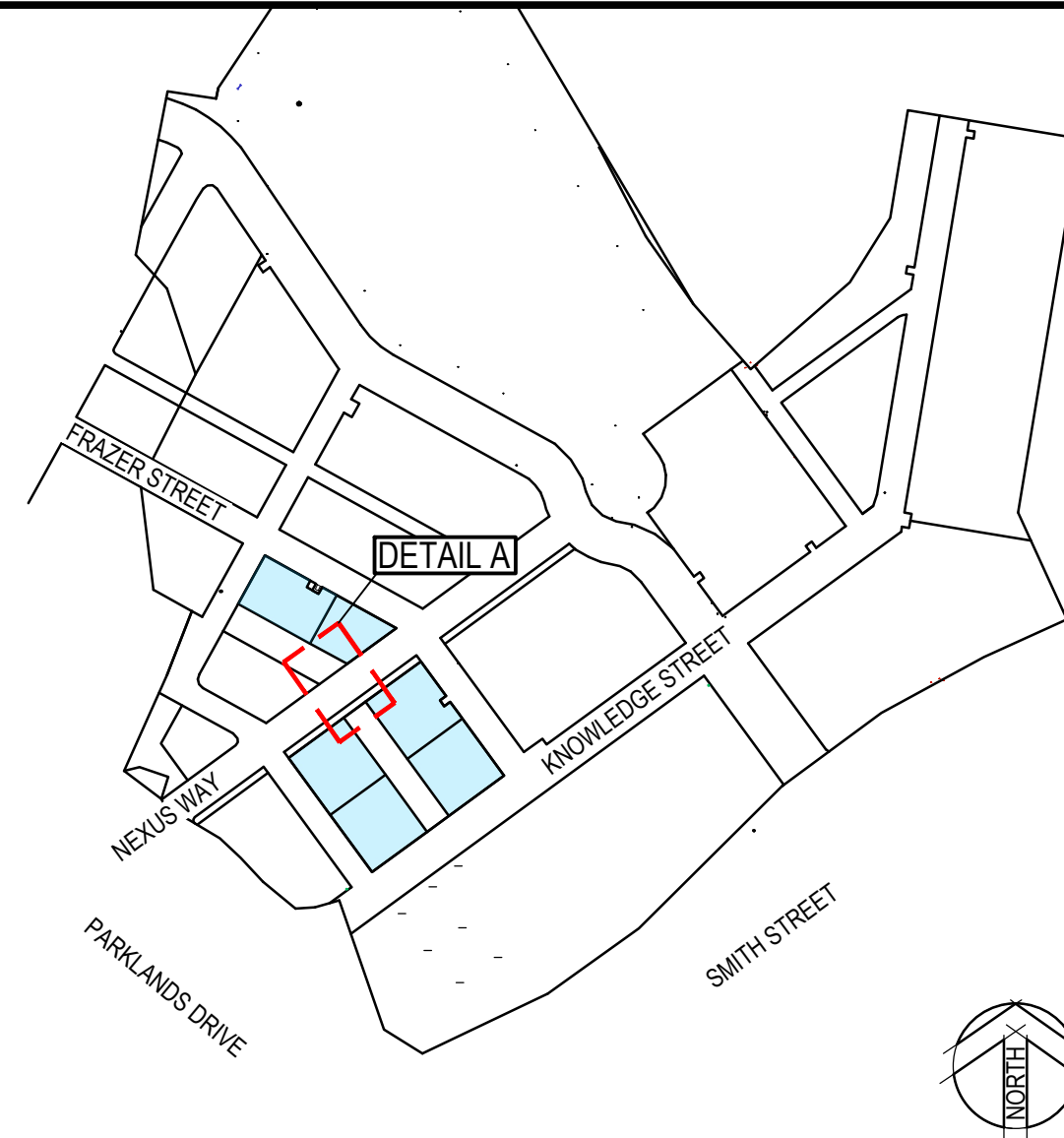
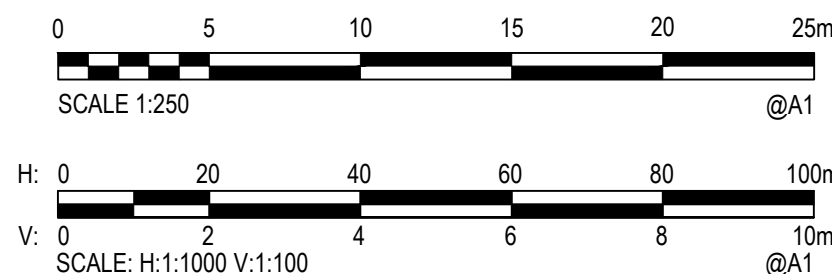
---	SITE BOUNDARY
— S —	PROPOSED SEWER MAIN
—	PROPOSED SEWER PROPERTY CONNECTION
○	SEWER MANHOLE (REFER SEQ-SEW-1307-1)
— SWD —	PROPOSED FIELD INLET AND STORMWATER CONNECTION
■	EXTENT OF ASPHALT REINSTATEMENT (REFER COGC STANDARD DRAWING 02-602)
— W —	EXISTING WATER MAIN
— SWD —	EXISTING STORMWATER
— S —	EXISTING SEWER MAIN
— T —	EXISTING TELECOMMUNICATIONS / NBN
— E — E —	EXISTING ELECTRICITY
— C —	EXISTING COMMUNICATIONS
— G —	EXISTING GAS MAIN
(F1/1)	PROPOSED STRUCTURE NUMBER

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2022/1311
Date: 20 December 2022



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Designed BF	Date 22/03/2022				
Verified BF	Date 22/03/2022				
Approved					
Client EDQ - DSDT & I					
Project LUMINA FUTURE LOTS					
Title PRECINCT 6 STORMWATER SERVICES PLAN					
Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES					
Datum AHD		Scale AS SHOWN		Size A1	
Drawing Number 721993-CI-020					Revision B

STRUCTURE NAME / No.

MH / MS COVER TYPE		D
MH / MS TYPE	JUNC	MH Ø1050
DROP TYPE	V	
LINE DEFLECTION & BRANCHES		

MAINTENANCE HOLE/SHAFT COVER TYPES
D = CLASS D TRAFFICABLE (CONCRETE INFILL)
B = CLASS B NON-TRAFFICABLE (CAST IRON)

STRUCTURE TYPES
MH = MAINTENANCE HOLE
MS = MAINTENANCE SHAFT
JUNC = JUNCTION

PROPERTY DESCRIPTION
PP = PRIVATE PROPERTY
RR = ROAD RESERVE

SITE 6B TYPE A Ø150 DIA
CH 53.736 IL 13.000 D 2.522

EXISTING
SURFACE

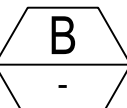
LIVE CONNECTION
STAINLESS STEEL AVK SEWER OB CLAMP
(OR APPROVED EQUIVALENT) TO CONNECT NEW
Ø150 SEWER RETICULATION TO EXISTING MAIN.

PROPOSED
Ø150 SEWER

EXISTING UPSTREAM MANHOLE. PLUG UPSTREAM
MAIN AND PROPERTY CONNECTION PRIOR TO
COMMENCEMENT OF LIVE CONNECTION.

NEXUS WAY

DETAIL
SCALE 1:250



LIVE CONNECTION
STAINLESS STEEL AVK SEWER OB CLAMP
(OR APPROVED EQUIVALENT) TO CONNECT NEW
Ø150 SEWER RETICULATION TO EXISTING MAIN.

DATUM RL

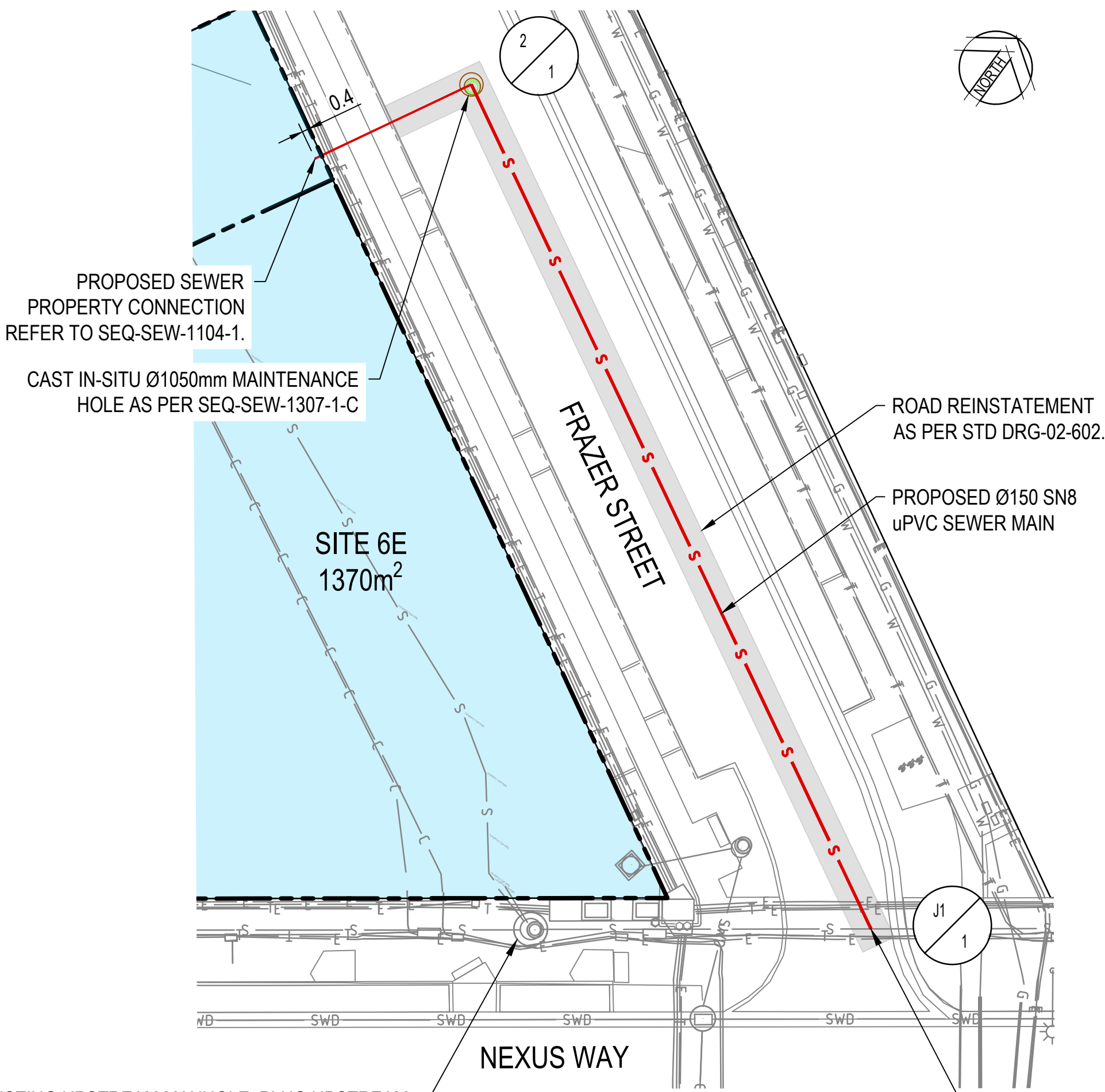
3.000

PROPERTY DESCRIPTION	PP.
PIPE SIZE (mm), CLASS	150 SN8 uPVC
GRADE (1 IN X)	100
LENGTH	53.736
EMBEDMENT TYPE	TYPE '4'
DEPTH OF INVERT BELOW FSL	3.047 3.047 2.695
INVERT LEVEL (IL)	12.290 12.290 12.827
FINISHED FSL (& EXISTING ESL) SURFACE LEVEL	15.337 15.337 15.522
STRUCTURE SETOUT (EASTING & NORTHING)	E537997.678 N6906974.868 E537950.491 N6907000.578
CHAINAGE (CH)	0.000 53.736

LINE
SCALE H 1:1000, V 1:100

1

EXISTING UPSTREAM MANHOLE. PLUG UPSTREAM
SEWER MAIN ACROSS HILL STREET PRIOR TO
COMMENCEMENT OF LIVE CONNECTION.



SITE 6A
2468m²

PUBLIC PLAZA
1650m²

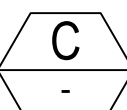
PROPOSED SEWER PROPERTY
CONNECTION REFER TO SEQ-SEW-1104-1.

SITE = 6A
TYPE = A
DIA = Ø150
IL = 17.05
DEPTH = 1.96m
CH = 7.050

LIVE CONNECTION
STAINLESS STEEL AVK SEWER OB CLAMP
(OR APPROVED EQUIVALENT) TO CONNECT NEW
Ø150 SEWER RETICULATION TO EXISTING MAIN.

NEXUS WAY

DETAIL
SCALE 1:250



WARNING

FOR TELSTRA AND OPTUS OPTICAL FIBRE CABLES PHONE:
TELSTRA 1100 / OPTUS 1800 505 777
PRIOR TO COMMENCING EXCAVATION

NOTE:

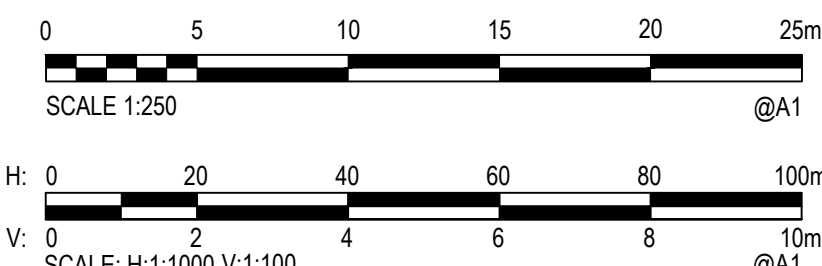
CONTRACTOR TO BE RESPONSIBLE TO CONTACT
RELEVANT AUTHORITIES AND CONFIRM LOCATION
OF ALL SERVICES PRIOR TO COMMENCING
WORKS ON SITE. CONTRACTOR TO CONFIRM ALL
EXISTING SERVICE LEVELS & NOTIFY
SUPERINTENDENT OF ANY DISCREPANCIES PRIOR
TO CONSTRUCTION.

NOTES:

- REINSTATE ALL SURFACE WORKS TO ORIGINAL.
- ALL EXISTING SERVICES TO BE LOCATED, EXPOSED AND PROTECTED DURING WORKS.
- ROAD REINSTATEMENT TO BE AS PER COGC STANDARD DRAWING 02-602.
- EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE HEALTH AND SAFETY LEGISLATION TO SERVICE PROVIDER PRIOR TO COMMENCING ANY WORK.
- IT IS THE DEVELOPER'S RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED.
- ALL WORK ON EXISTING SEWERS TO BE CARRIED OUT BY THE CONTRACTOR UNDER THE SERVICE PROVIDER SUPERVISION AT THE DEVELOPER'S EXPENSE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DRAWING 721993-CI-001, GENERAL NOTES AND DETAILS.
- CONTRACTOR TO SURVEY SEWER LINES AT CONNECTION POINTS DURING SITE ESTABLISHMENT AND FORWARD TO ENGINEERS FOR ASSESSMENT PRIOR TO CONSTRUCTION.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH CoGC CITY PLAN POLICY SC6.11 - LAND DEVELOPMENT GUIDELINES AND WSA GRAVITY SEWER CODE OF AUSTRALIA - SEQ EDITION.
- REFER TO DWG CI-020 FOR WATER AND STORMWATER CONNECTION DETAILS.

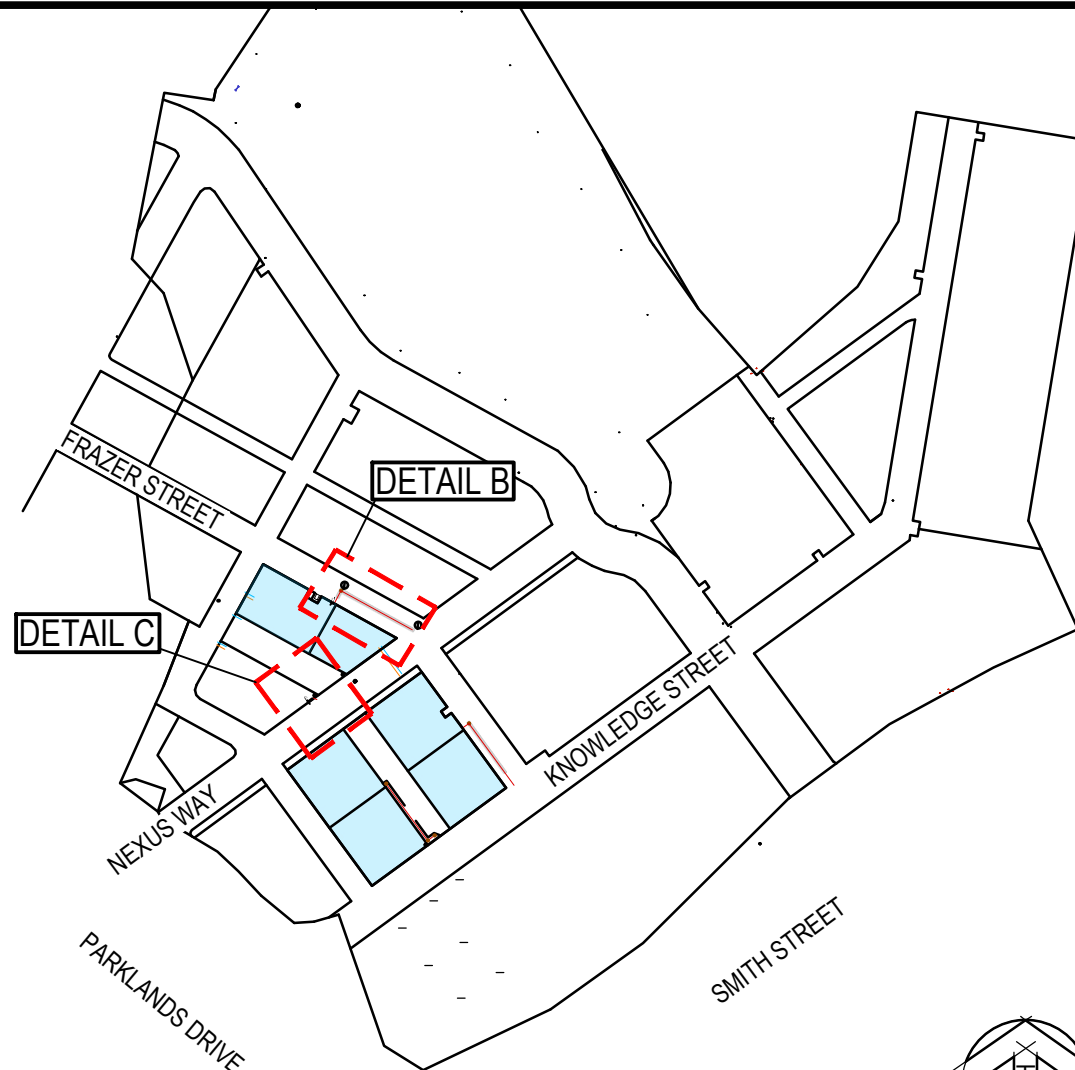
LEGEND:

- SITE BOUNDARY
- PROPOSED SEWER MAIN
- PROPOSED SEWER PROPERTY CONNECTION
- SEWER MANHOLE (REFER SEQ-SEW-1307-1)
- PROPOSED FIELD INLET AND STORMWATER CONNECTION
- EXTENT OF ASPHALT REINSTATEMENT (REFER COGC STANDARD DRAWING 02-602)
- EXISTING WATER MAIN
- EXISTING STORMWATER
- EXISTING SEWER MAIN
- EXISTING TELECOMMUNICATIONS / NBN
- EXISTING ELECTRICITY
- EXISTING COMMUNICATIONS
- EXISTING GAS MAIN
- PROPOSED STRUCTURE NUMBER



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**Queensland
Government**



Cardno (Qld) Pty Ltd | ABN 57 051 074 992
Level 2 - Podium Level, Emerald Lakes Town Centre
1/3321 Central Place, Camerra QLD 4211
Tel: 07 5539 9333 Fax: 07 5538 4647
Web: www.cardno.com.au

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Checked	LH	Date	22/03/2022	
Designed	BF	Date	22/03/2022	
Verified	BF	Date	22/03/2022	
Approved				

Client **EDQ - DSDT & I**

Project
**LUMINA
FUTURE LOTS**

Title
**PRECINCT 6
SEWERAGE LAYOUT**

Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Datum	AHD	Scale	AS SHOWN	Size	A1
Drawing Number	721993-CI-021				Revision A