



JORDAN SPRINGS STAGE 2 - RESIDENTIAL

LOT 12 DP1244083

PROPOSED LOT AND DRAINAGE WORKS

DA NUMBER: DA 18/0678



LOCALITY SKETCH

Prepared By:

J. WYNDHAM PRINCE

**CONSULTING CIVIL INFRASTRUCTURE ENGINEERS
& PROJECT MANAGERS**

PO Box 4366 PENRITH WESTFIELD NSW 2750

P 02 4720 3300 F 02 4720 3399

W www.jwprince.com.au

E jwp@jwprince.com.au

ISSUED FOR CONSTRUCTION APPROVAL

PLAN No.
11048702/CC101 **A**
FILE No. 11048702CC101

GENERAL NOTES

1.

ALL WORKS ARE TO BE IN ACCORDANCE WITH COUNCILS "STANDARD SPECIFICATION FOR ENGINEERING WORKS.
2.

SURVEY MARKS:-

a.

SURVEY MARKS SHOWN SHALL BE RETAINED AT ALL TIMES. WHERE RETENTION IS NOT POSSIBLE THE SUPERINTENDENT MUST BE NOTIFIED AND CONSENT RECEIVED PRIOR TO THEIR REMOVAL.
3.

THE CONTRACTOR SHALL LOCATE AND LEVEL ALL EXISTING SERVICES PRIOR TO COMMENCING CONSTRUCTION AND MAKE ARRANGEMENTS WITH THE RELEVANT AUTHORITY TO RELOCATE OR ADJUST IF NECESSARY.
4.

THE CONTRACTOR SHALL NOT ENTER UPON NOR DO ANY WORK WITHIN ADJACENT LANDS WITHOUT THE WRITTEN PERMISSION OF THE OWNERS. TO BE PROVIDED PRIOR TO THE APPROVAL OF THE PLANS.
5.

THE CONTRACTOR SHALL MAINTAIN SERVICES AND ALL WEATHER ACCESS AT ALL TIMES TO ADJOINING PROPERTIES.
6.

COUNCIL'S TREE PRESERVATION ORDER MUST BE OBSERVED AND NO TREE SHALL BE FELLED, LOPPED OR REMOVED WITHOUT THE PRIOR APPROVAL OF COUNCIL'S ENGINEER.
7.

TREES TO BE RETAINED ON SITE SHALL BE PROTECTED BY SUITABLE STURDY APPROVED PROTECTIVE FENCING PRIOR TO COMMENCEMENT OF SITE WORKS.
8.

THE CONTRACTOR SHALL CLEAR THE SITE BY REMOVING ALL RUBBISH, FENCES, OUT-HOUSES, CAR BODIES AND DEBRIS ETC.
9.

PUBLIC RESERVE AREAS SHALL BE CLEARED OF UNDERGROWTH, IMPROVEMENTS AND FENCES AS DIRECTED BY THE ENGINEER.
10.

FILLING IS TO BE FROM A NOMINATED SOURCE, OF SOUND CLEAN MATERIAL, FREE FROM LARGE ROCK, STUMPS, CONTAMINATED MATTER, INDUSTRIAL AND BUILDING WASTE, ORGANIC MATTER AND OTHER DEBRIS. PLACING OF FILLING ON THE PREPARED AREAS SHALL NOT COMMENCE UNTIL THE AUTHORITY TO DO SO HAS BEEN OBTAINED FROM THE COUNCIL.
11.

SITE FILL AREAS:- THE CONTRACTOR SHALL TAKE LEVELS OF EXISTING SURFACE AFTER STRIPPING TOPSOIL AND PRIOR TO COMMENCING FILL OPERATIONS.
12.

ALL SITE FILLING TO BE COMPACTED TO 95% STANDARD COMPACTION AND SHALL BE CONTROLLED BY A REGISTERED SOIL LABORATORY IN ACCORDANCE WITH COUNCIL'S "WORKS SPECIFICATION".
13.

ALL SITE REGRADING AREAS SHALL BE GRADED AT A MINIMUM 1% TO THE ENGINEER'S REQUIREMENTS.
14.

SURPLUS EXCAVATED MATERIAL SHALL BE PLACED WHERE DIRECTED BY THE SUPERINTENDENT.
15.

VEHICULAR CROSSINGS SHALL BE CONSTRUCTED IN KERB AND GUTTER WHERE SHOWN.
16.

PRAM CROSSINGS SHALL BE CONSTRUCTED IN KERB AND GUTTER IN ACCORDANCE WITH COUNCIL'S STANDARD DRAWING.
17.

ALL NEW WORKS SHALL MAKE A SMOOTH JUNCTION WITH EXISTING CONDITIONS.
18.

DIMENSIONS OF ANY DETAIL SHALL NOT BE SCALED - DIMENSIONS, IF IN DOUBT, SHALL BE VERIFIED BY THE SUPERINTENDENT.
19.

ALL CONSTRUCTION AND RESTORATION WORK ON COUNCIL'S ROAD AND FOOTPATH AREA ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED DRAWINGS AND COUNCIL'S STANDARD SPECIFICATIONS.

PAVEMENT NOTES

1.

PAVEMENT TO BE SUPPLIED AND LAID IN ACCORDANCE WITH COUNCIL SPECIFICATIONS.
2.

PROVIDE 50mm MINIMUM TOPSOIL & SEED TO EMBANKMENTS.
3.

SUBGRADE & PAVEMENT MATERIALS TO BE COMPACTED TO FOLLOWING MINIMUM DRY DENSITY RATIOS (AS 1289-5.4.1-1993):

a.

BASECOURSE 98% MODIFIED

b.

SUB-BASE 95% MODIFIED

c.

SUBGRADE 100% STANDARD
5.

SUBSOIL DRAINAGE TO BE PLACED ON BOTH SIDES OF THE ROAD EXCEPT WHERE STORMWATER PIPES GREATER THAN Ø375mm ARE PROPOSED.

STORMWATER NOTES

1.

STORMWATER DESIGN CRITERIA:

AVERAGE RECURRENT INTERVAL:
1:100 MAJOR SYSTEM
1:5 MINOR SYSTEM
2.

PIPES TO BE INSTALLED TO TYPE HS2 SUPPORT IN ACCORDANCE WITH AS 3725 (1989) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 300mm LAYERS TO MINIMUM 100% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
3.

ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998).
4.

CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
5.

GRATES AND COVERS SHALL CONFORM TO AS 3996.
6.

AT ALL TIMES DURING CONSTRUCTION OF STORMWATER PITS, ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.
7.

ALL DRAINAGE LINES THROUGH LOTS SHALL BE CONTAINED WITHIN THE FOLLOWING EASEMENTS:-

a)

INTERALLOTMENT DRAINS (C.D.L.) - 1.5m WIDE (UP TO 150mm DIAMETER), 2.0m WIDE (UP TO 300mm DIAMETER), 2.5m WIDE (UP TO 600mm DIAMETER

b)

ALL OTHER DRAINS - REFER TO COUNCILS DESIGN GUIDELINES SUBDIVISION/ DEVELOPMENTS.
8.

DRAINAGE LINES UNDER ROADS SHALL BE BACKFILLED WITH NON-COHESIVE SAND AND HAVE 3m (AS PER PENRITH COUNCIL DETAILS) OF SUBSOIL DRAIN WRAPPED IN APPROVED FILTER SOCK, DISCHARGING INTO DOWN STREAM PITS.
9.

ALL STORMWATER PIPES WITHIN ROADS TO BE REINFORCED CONCRETE PIPE (RCP) CLASS 2 UNLESS NOTED OTHERWISE. STORMWATER PIPES CROSSING THE ROAD TO BE REINFORCED CONCRETE PIPE (RCP) CLASS 4 UNLESS NOTED OTHERWISE.
10.

ALL INTERALLOTMENT DRAINAGE LINES SHALL BE LAID AT A MINIMUM GRADE OF 1% UNLESS OTHERWISE INDICATED.
11.

DRAINAGE LINES ON PLANS ARE DIAGRAMMATIC ONLY AND PIPE CENTRELINES SHALL ENTER AND EXIT PITS AT THE CENTRE OF THE RESPECTIVE PIT WALLS.
12.

ALL SPECIAL PITS, PITS DEEPER THAN 2m OR NON STANDARD DRAINAGE PITS CAN BE EITHER CAST INSITU, "AUS PIT" CUSTOM MADE PRECAST PIT OR SIMILAR APPROVED WITH STRUCTURAL DESIGN AND CERTIFICATION BY OTHERS.
13.

100YR FLOW PATHS TO BE FORMED AT TIME OF CONSTRUCTION.

SURVEY SET OUT INFORMATION NOTES:

1.

ALL SITE SET OUT AND CONTROL POINTS ARE TO BE CERTIFIED BY A REGISTERED SURVEYOR.
2.

THE INFORMATION DETAILED ON THE CERTIFIED CONSTRUCTION CERTIFICATE PLANS TAKES PRECEDENCE OVER ALL ELECTRONIC INFORMATION PROVIDED. THE ORDER OF PRIORITY FOR USE OF ALL INFORMATION PROVIDED IS AS FOLLOWS:

a.

CERTIFIED CONSTRUCTION CERTIFICATE DRAWINGS

b.

2D DRAFTING BASE (ELECTRONIC FILE)

c.

3D DTM (ELECTRONIC FILE)
3.

ANY DISCREPANCY BETWEEN ANY OF THE INFORMATION CONTAINED WITHIN THESE FILES IS TO BE BROUGHT TO THE ATTENTION OF THE SUPERINTENDENT PRIOR TO CONSTRUCTION WHO WILL SEEK CLARIFICATION AND ISSUE INSTRUCTIONS ON THE APPROPRIATE COURSE OF ACTION.
1.

DESIGN DOCUMENTATION REFLECTS PRECAST DRAINAGE PITS BEING USED FOR THE SITE. UNLESS NOTED OTHERWISE. AUSPITS OR SIMILAR APPROVED CUSTOM MADE PRECAST PITS TO BE USED.
2.

PITS TO COMPLY WITH THE FOLLOWING PARAMETERS:

a.

ARE SPECIFICALLY MANUFACTURED FOR THE PROJECT.

b.

EACH PIT IS ACCOMPANIED BY A CERTIFICATE OF STRUCTURAL ADEQUACY SIGNED BY A NPER ENGINEER (STRUCTURAL)

c.

THE STRUCTURAL CERTIFICATION OF THE PITS SHOULD INCLUDE ANY ADDITIONAL PRECAST ELEMENTS REQUIRED TO BRING THE PIT UP TO FINAL LEVELS ON SITE.

d.

PITS MUST BE FIRMLY BEDDED ON SOUND MATERIAL.

e.

CONCRETE IS TO BE POURED AROUND THE BASE TO AID IN STABILISATION OF THE PIT.

f.

PIT FLOORS ARE TO HAVE A 1% FALL TOWARDS THE OUTLET PIPE.

g.

ANY PIT REQUIRING MODIFICATION AFTER IT HAS BEEN POURED IN THE FACTORY OR DAMAGED IN TRANSPORT CANNOT BE USED.

h.

ALL WORK TO BE TO THE SATISFACTION OF COUNCIL'S DEVELOPMENT INSPECTORS.
3.

SHOULD THE CONTRACTOR CHOOSE TO CONSTRUCT ANY PIT AS "CAST-INSITU", IT'S THE CONTRACTORS RESPONSIBILITY TO PROVIDE DETAILED PIT DRAWINGS AND STRUCTURAL CERTIFICATION OF THE RELEVANT PITS.

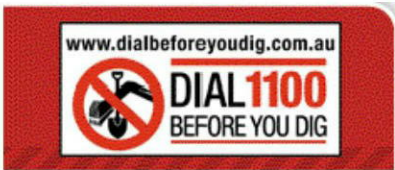
CIVIL PLAN INDEX		
PLAN NO.	PLAN NAME	REV
11048702/CC101	COVER SHEET	A
11048702/CC102	GENERAL NOTES, LEGEND & INDEX	A
11048702/CC103	SITE LAYOUT & ROAD SETOUT PLAN	A
11048702/CC104	CUT & FILL PLAN	A
11048702/CC105	PAVEMENT PLAN	A
11048702/CC106	ENGINEERING PLAN	A
11048702/CC107	SITE SECTIONS SHEET 1 OF 2	A
11048702/CC108	SITE SECTIONS SHEET 2 OF 2	A
11048702/CC109	TYPICAL SECTIONS	A
11048702/CC110	TYPICAL SECTIONS SHOWING SERVICES	A
11048702/CC111	ROAD LONGITUDINAL SECTIONS SHEET 1 OF 2	A
11048702/CC112	ROAD LONGITUDINAL SECTIONS SHEET 2 OF 2	A
11048702/CC113	CROSS SECTIONS SHEET 1 OF 3	A
11048702/CC114	CROSS SECTIONS SHEET 2 OF 3	A
11048702/CC115	CROSS SECTIONS SHEET 3 OF 3	A
11048702/CC116	KERB RETURNS SHEET 1 OF 4	A
11048702/CC117	KERB RETURNS SHEET 2 OF 4	A
11048702/CC118	KERB RETURNS SHEET 3 OF 4	A
11048702/CC119	KERB RETURNS SHEET 4 OF 4	A
11048702/CC120	CATCHMENT PLAN	A
11048702/CC121	DRAINAGE LONGITUDINAL SECTION SHEET 1 OF 5	A
11048702/CC122	DRAINAGE LONGITUDINAL SECTION SHEET 2 OF 5	A
11048702/CC123	DRAINAGE LONGITUDINAL SECTION SHEET 3 OF 5	A
11048702/CC124	DRAINAGE LONGITUDINAL SECTION SHEET 4 OF 5	A
11048702/CC125	DRAINAGE LONGITUDINAL SECTION SHEET 5 OF 5	A
11048702/CC126	DRAINAGE CALCULATIONS SHEET 1 OF 4	A
11048702/CC127	DRAINAGE CALCULATIONS SHEET 2 OF 4	A
11048702/CC128	DRAINAGE CALCULATIONS SHEET 3 OF 4	A
11048702/CC129	DRAINAGE CALCULATIONS SHEET 4 OF 4	A
11048702/CC130	RETAINING WALL PLAN SHEET 1 OF 3	A
11048702/CC131	RETAINING WALL PLAN SHEET 2 OF 3	A
11048702/CC132	RETAINING WALL PLAN SHEET 3 OF 3	A
11048702/CC133	RETAINING WALL SECTION SHEET 1 OF 6	A
11048702/CC134	RETAINING WALL SECTION SHEET 2 OF 6	A
11048702/CC135	RETAINING WALL SECTION SHEET 3 OF 6	A
11048702/CC136	RETAINING WALL SECTION SHEET 4 OF 6	A
11048702/CC137	RETAINING WALL SECTION SHEET 5 OF 6	A
11048702/CC138	RETAINING WALL SECTION SHEET 6 OF 6	A
11048702/CC139	SOIL & WATER MANAGEMENT PLAN	A
11048702/CC140	TURNING PATH	A
11048702/CC141	BUS BAY	A

LEGEND

DESCRIPTION	PROPOSED	EXISTING	FUTURE
EXTENT OF WORKS			
FLUSH KERB			
DISH CROSSING			
INDICATIVE DRIVEWAY LOCATION			
PRAM RAMP			
DRAINAGE LINE, PIT & EASEMENT			
DRAINAGE LINE & PIT			
HEADWALL			
ELECTRICITY, POWER POLE			
TELECOM, BOX			
WATER, STOP VALVE, HYDRANT			
SEWER, MANHOLE			
GAS			
EXTENT OF FILL			
EXTENT OF CUT			
CONTOURS			
CATCH DRAIN			
KERB RETURN No			
STREET NAME SIGNS			
SURVEY MARKS - BENCH MARKS			
STATE SURVEY MARKS			
STAGE BOUNDARY			
STABILISED SITE ACCESS			
SEDIMENT FENCE			
STRAW BALE BARRIER			
STOCKPILE			
PROTECTIVE FENCING			
MESH AND GRAVEL INLET FILTER			
GEOTEXTILE INLET FILTER			
RETAINING WALL			

Survey By:
SDG
SUITE 1, 3 RAILWAY STREET
BAULKHAM HILLS, NSW 2153
PH: 02 96307955

Date: 11/05/18 File Name:7202 PARKLAND ESTATE JORDAN SPRINGS ROAD DETAIL ISSUE D.DWG



UTILITIES SHOWN ARE DIAGRAMMATIC ONLY, CONTRACTORS ARE RESPONSIBLE TO LOCATE AND AVOID DAMAGE TO THEM AS SPECIFIED BY EACH UTILITIES EXCAVATION GUIDE LINES & STANDARDS.

NOTE: UTILITIES SHOWN MAY NOT INCLUDE ALL SERVICES WITHIN THE LIMIT OF WORKS

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 F 02 4720 3399 W www.jwprince.com.au E jwp@jwprince.com.au

AZIMUTH:

DATUM:

ORIGIN:

CLIENT:



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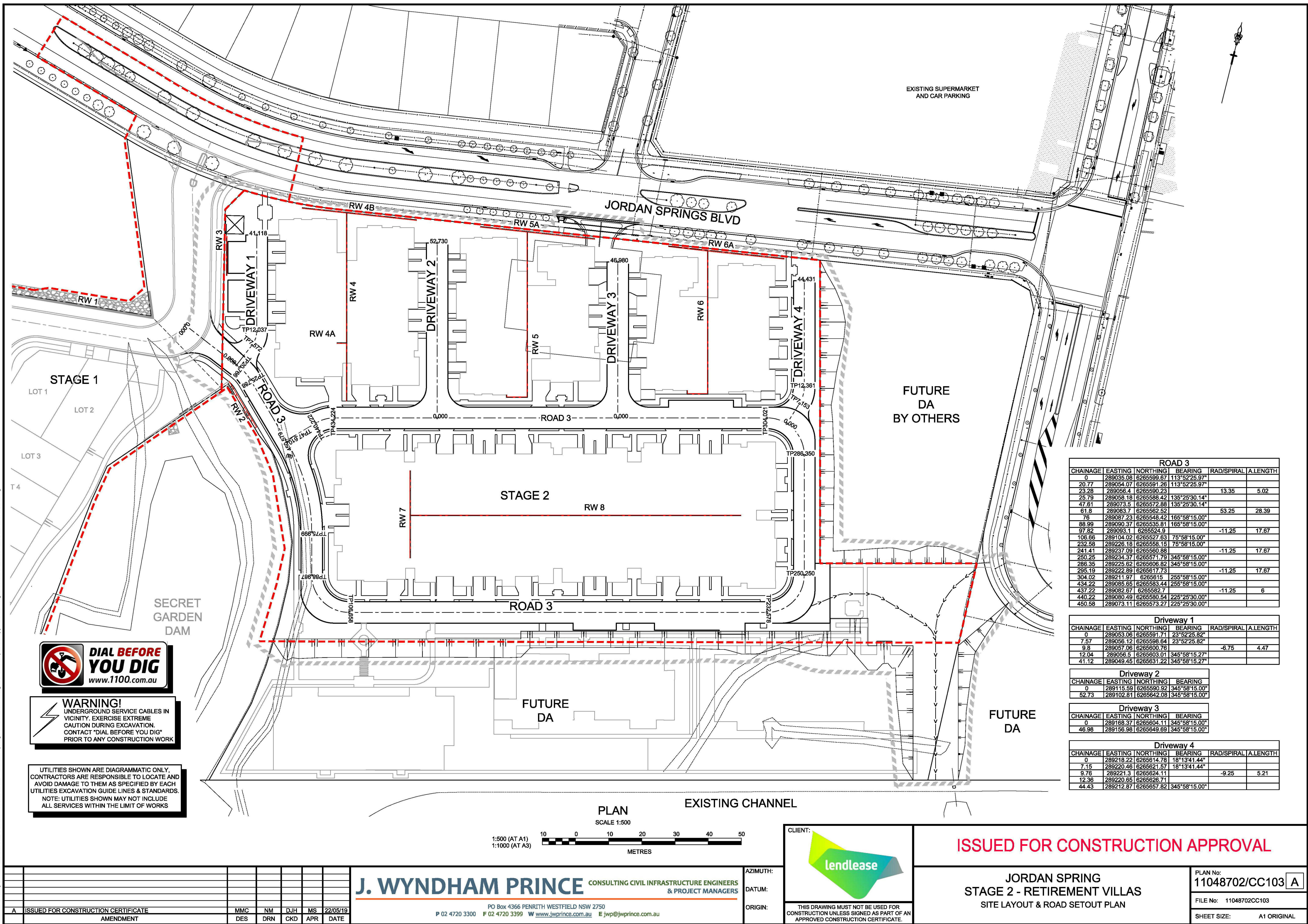
ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
GENERAL NOTES, LEGEND & INDEX

PLAN No:
11048702/CC102 **A**

FILE No: 11048702CC102

SHEET SIZE: A1 ORIGINAL



WARNING!
UNDERGROUND SERVICE CABLES IN VICINITY. EXERCISE EXTREME CAUTION DURING EXCAVATION. CONTACT "DIAL BEFORE YOU DIG" PRIOR TO ANY CONSTRUCTION WORK

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ROAD 3						
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	
0	289035.08	6265599.67	113°52'25.97"			
20.77	289054.07	6265591.26	113°52'25.97"			
23.28	289056.4	6265590.23		13.35	5.02	
25.79	289058.18	6265588.42	135°25'30.14"			
47.61	289073.5	6265572.88	135°25'30.14"			
61.8	289083.7	6265562.52		53.25	28.39	
76	289087.23	6265548.42	165°58'15.00"			
88.99	289090.37	6265535.81	165°58'15.00"			
97.82	289093.1	6265524.9		-11.25	17.67	
106.66	289104.02	6265527.63	75°58'15.00"			
232.58	289226.18	6265558.15	75°58'15.00"			
241.41	289237.09	6265560.88		-11.25	17.67	
250.25	289234.37	6265571.79	345°58'15.00"			
286.35	289225.62	6265560.82	345°58'15.00"			
295.19	289222.89	6265517.73		-11.25	17.67	
304.02	289211.97	6265615	255°58'15.00"			
434.22	289085.65	6265583.44	255°58'15.00"			
437.22	289082.67	6265582.7		-11.25	6	
440.22	289080.49	6265580.54	225°25'30.00"			
450.58	289073.11	6265573.27	225°25'30.00"			

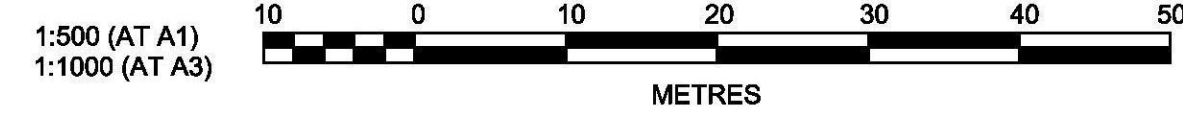
Driveway 1						
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	
0	289053.06	6265591.71	23°52'25.82"			
7.57	289056.12	6265598.64	23°52'25.82"			
9.8	289057.06	6265600.76		-6.75	4.47	
12.04	289056.5	6265603.01	345°58'15.27"			
41.12	289049.45	6265631.22	345°58'15.27"			

Driveway 2						
CHAINAGE	EASTING	NORTHING	BEARING			
0	289115.59	6265590.92	345°58'15.00"			
52.73	289102.81	6265642.08	345°58'15.00"			

Driveway 3						
CHAINAGE	EASTING	NORTHING	BEARING			
0	289168.37	6265604.11	345°58'15.00"			
46.98	289156.98	6265649.69	345°58'15.00"			

Driveway 4						
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	
0	289218.22	6265614.78	18°13'41.44"			
7.15	289220.46	6265621.57	18°13'41.44"			
9.76	289221.3	6265624.11		-9.25	5.21	
12.36	289220.65	6265626.71				
44.43	289212.67	6265657.82	345°58'15.00"			

PLAN
SCALE 1:500



EXISTING CHANNEL

CLIENT:

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ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
SITE LAYOUT & ROAD SETOUT PLAN

PLAN No:
11048702/CC103 A

FILE No: 11048702CC103

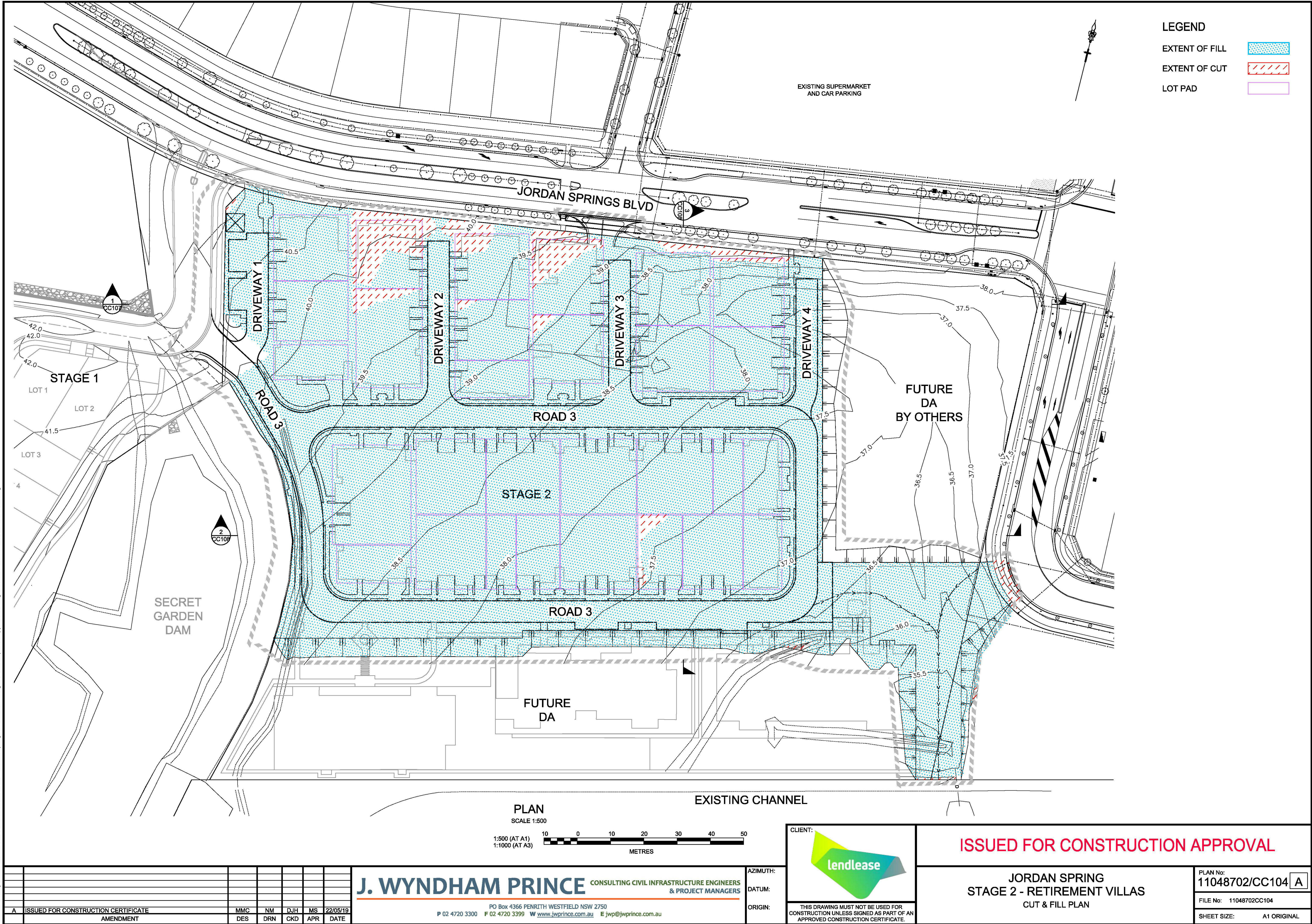
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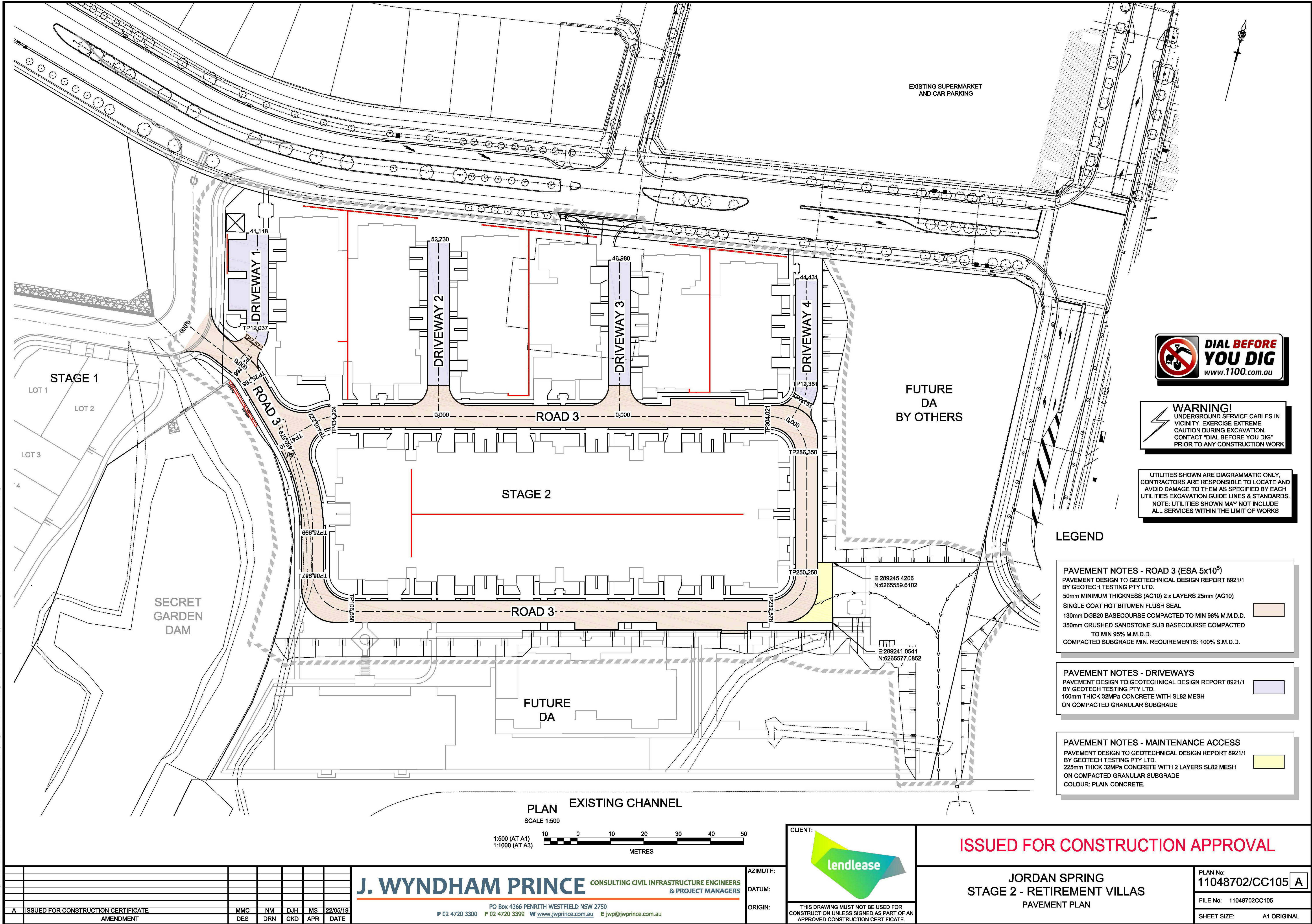
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PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 F 02 4720 3399 W www.jwprince.com.au E jwp@jwprince.com.au

A	ISSUED FOR CONSTRUCTION CERTIFICATE	MMC	NM	DJH	MS	22/05/19			
	AMENDMENT	DES	DRN	CKD	APR	DATE			

Plotback: 22 May, 2019 4:44:16 PM File Name: J:\110487 - Jordan Springs Retirement Living\02 - Development Application Stage\CDCC\STAGE 2\11048702CC103.dwg





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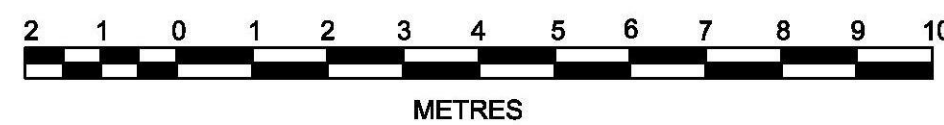
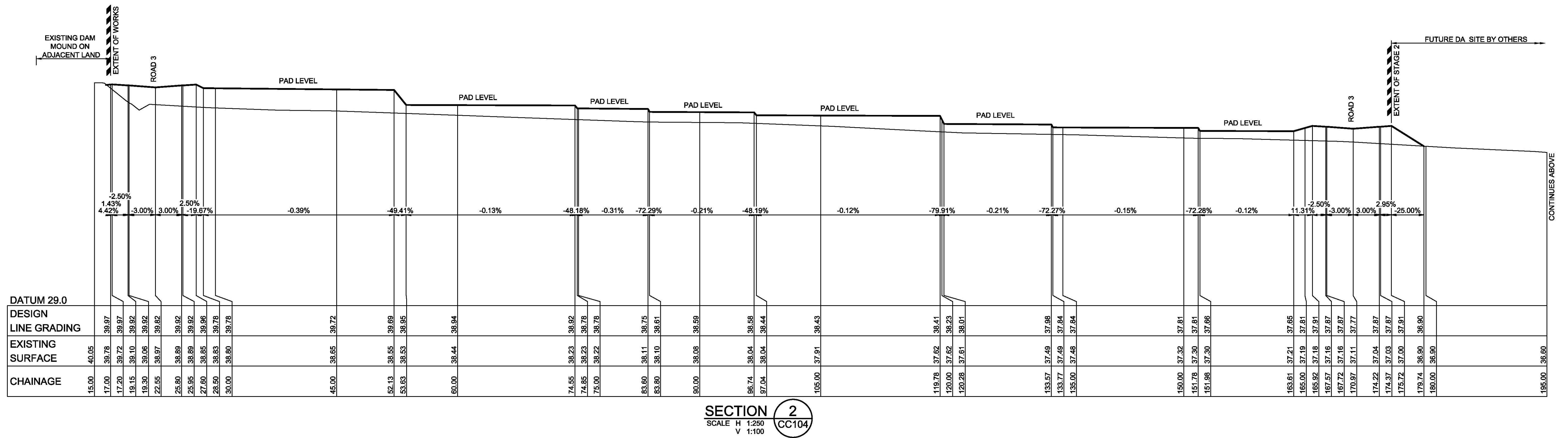
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LEGEND

PAVEMENT NOTES - ROAD 3 (ESA 5x10⁵)
PAVEMENT DESIGN TO GEOTECHNICAL DESIGN REPORT 8921/1 BY GEOTECH TESTING PTY LTD.
50mm MINIMUM THICKNESS (AC10) 2 x LAYERS 25mm (AC10)
SINGLE COAT HOT BITUMEN FLUSH SEAL
130mm DGB20 BASECOURSE COMPACTED TO MIN 98% M.M.D.D.
350mm CRUSHED SANDSTONE SUB BASECOURSE COMPACTED TO MIN 95% M.M.D.D.
COMPACTED SUBGRADE MIN. REQUIREMENTS: 100% S.M.D.D.

PAVEMENT NOTES - DRIVEWAYS
PAVEMENT DESIGN TO GEOTECHNICAL DESIGN REPORT 8921/1 BY GEOTECH TESTING PTY LTD.
150mm THICK 32MPa CONCRETE WITH SL82 MESH
ON COMPACTED GRANULAR SUBGRADE

PAVEMENT NOTES - MAINTENANCE ACCESS
PAVEMENT DESIGN TO GEOTECHNICAL DESIGN REPORT 8921/1 BY GEOTECH TESTING PTY LTD.
225mm THICK 32MPa CONCRETE WITH 2 LAYERS SL82 MESH
ON COMPACTED GRANULAR SUBGRADE
COLOUR: PLAIN CONCRETE.



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JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
SITE SECTIONS
SHEET 2 OF 2

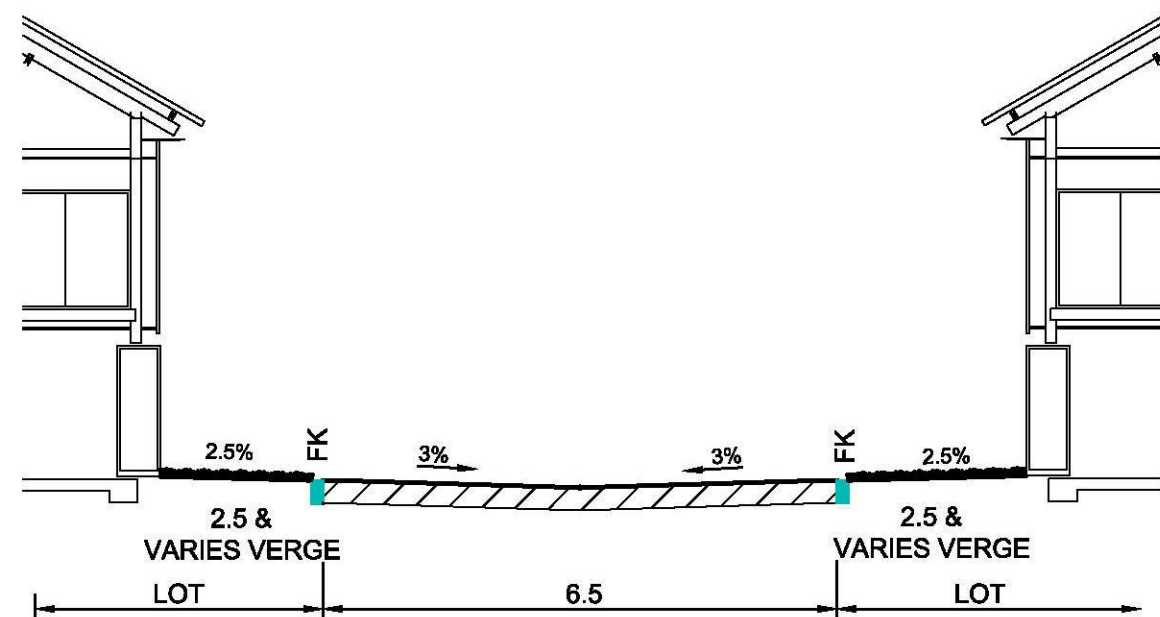
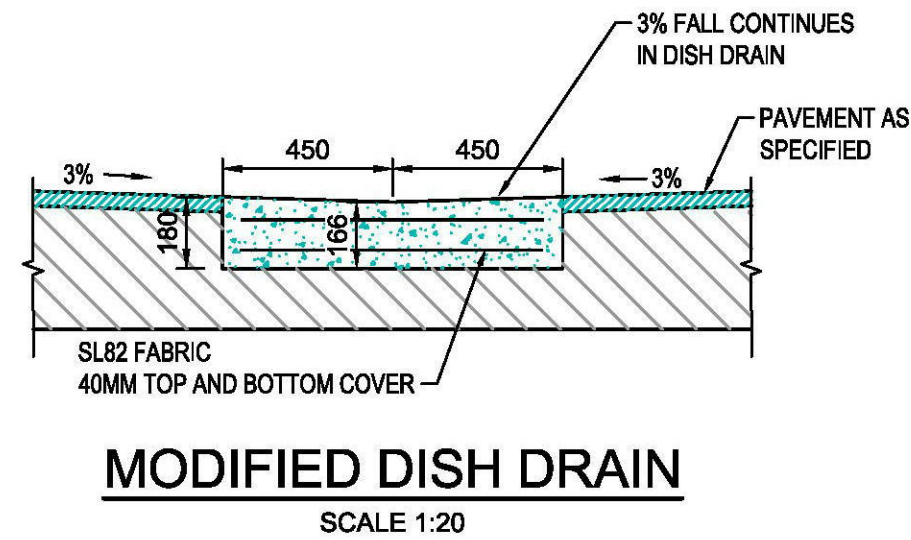
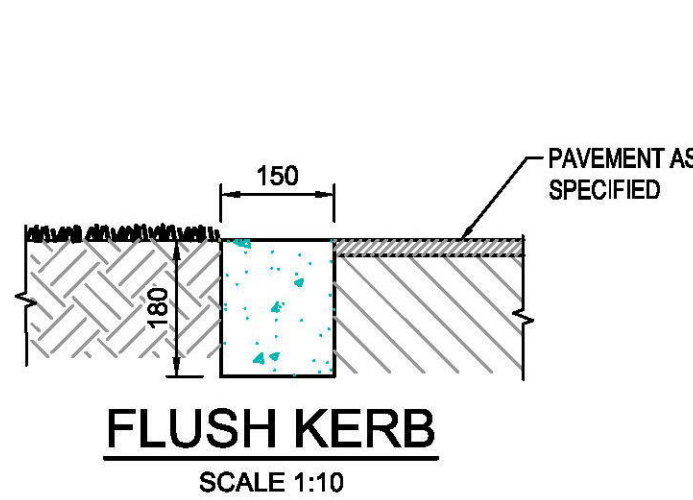
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11048702/CC108	A
FILE No: 11048702CC108	
SHEET SIZE:	A1 ORIGINAL

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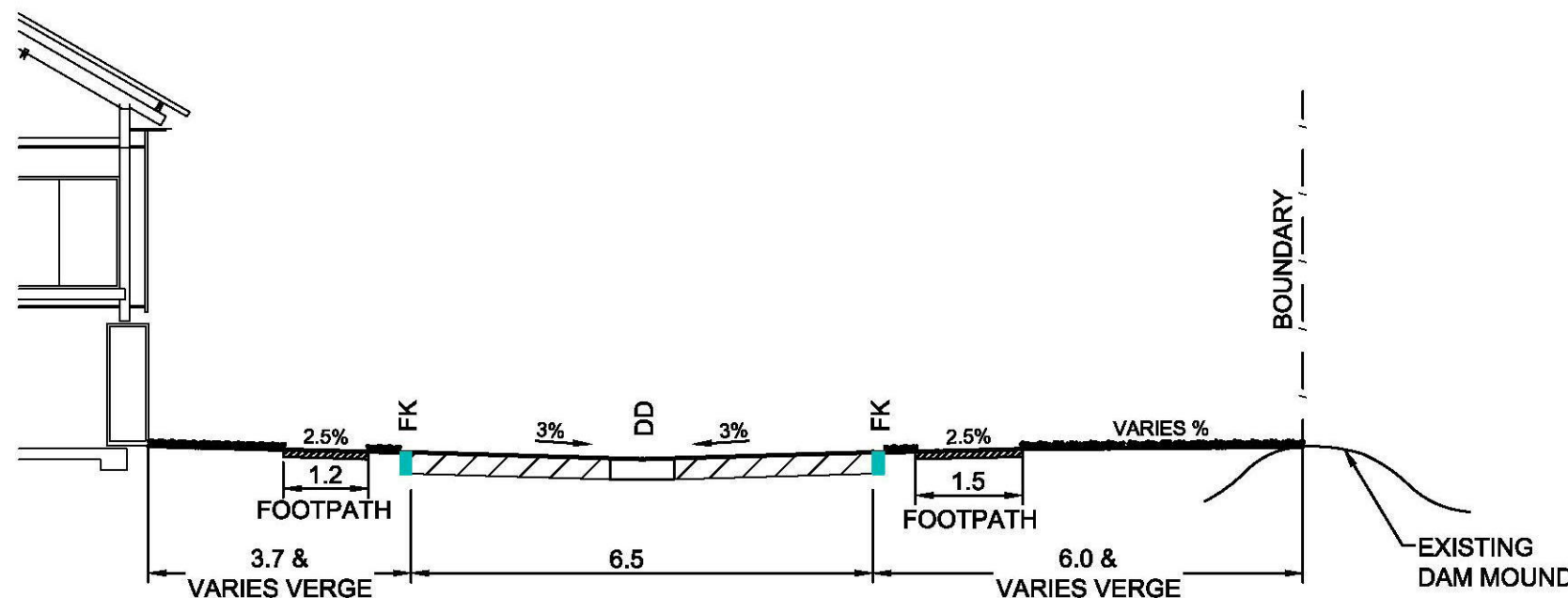
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A	ISSUED FOR CONSTRUCTION CERTIFICATE AMENDMENT	MMC DES	NM DRN	DJH CKD	MS APR 22/05/19 DATE

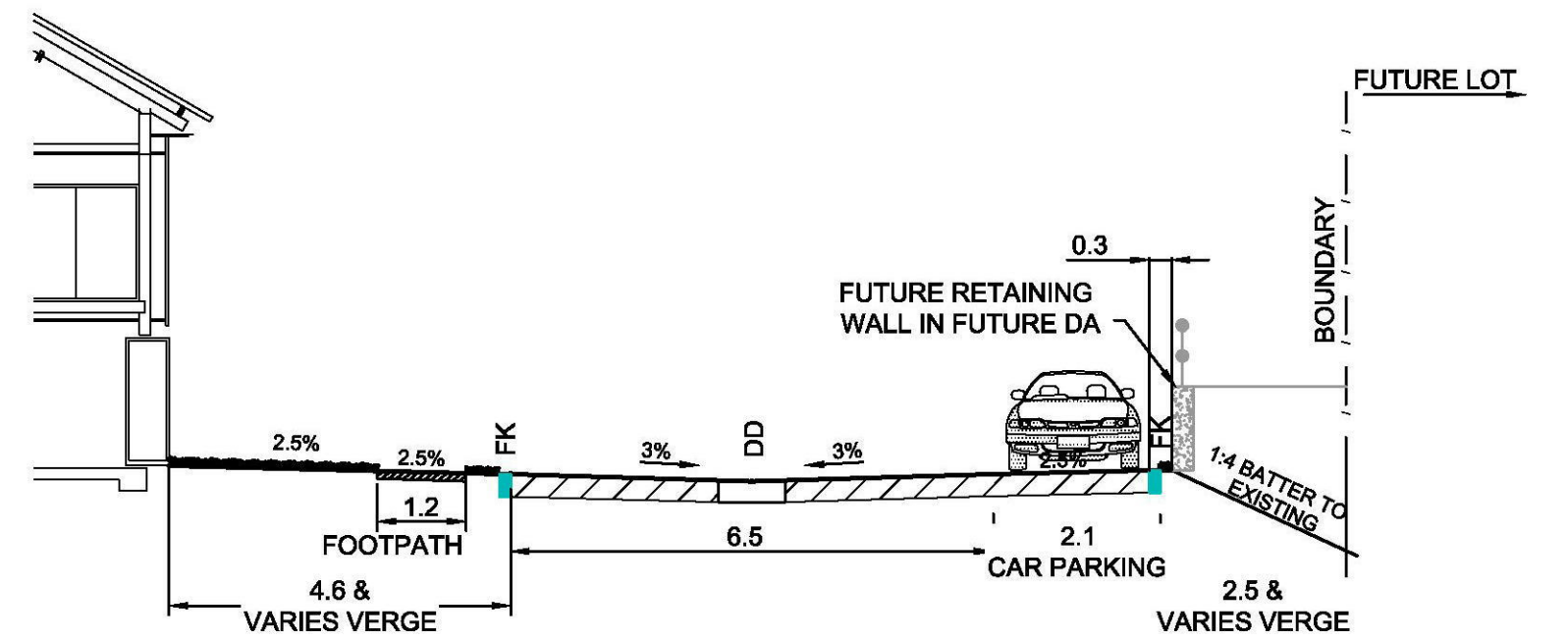
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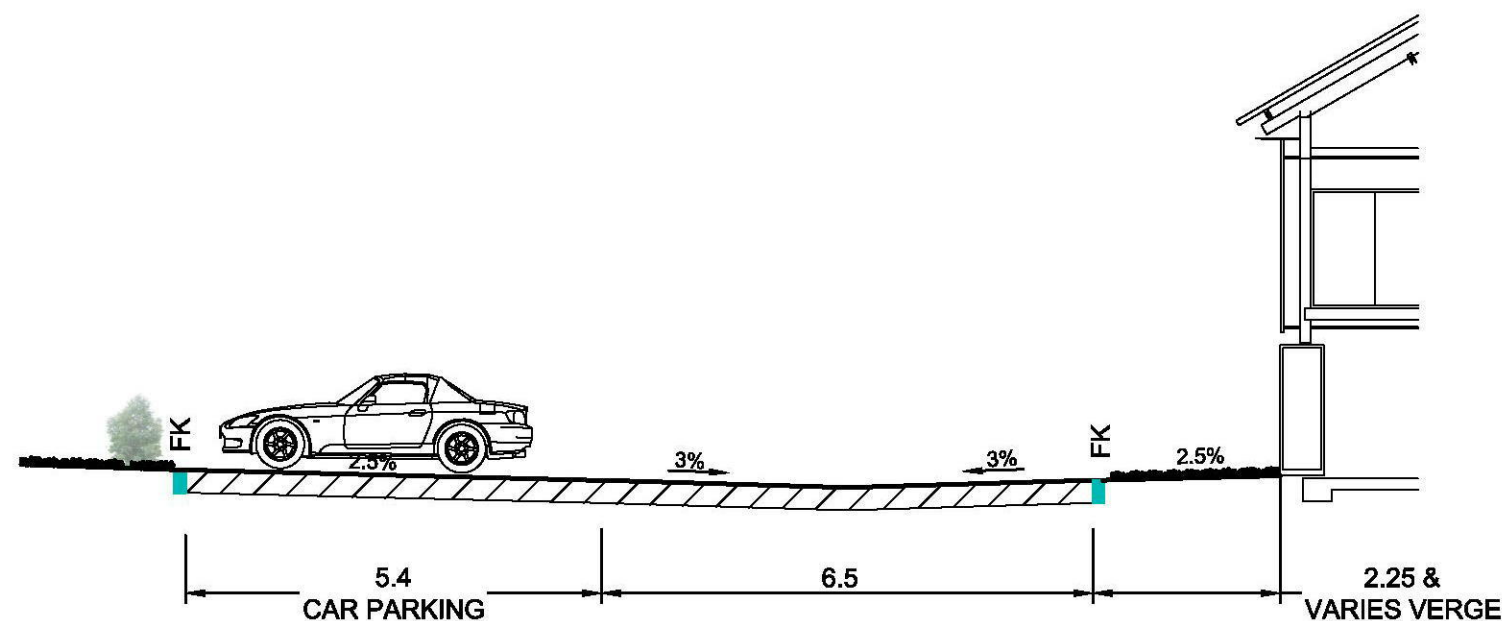
TYPICAL CROSS SECTION
DRIVEWAY 3
SCALE 1:100 NAT



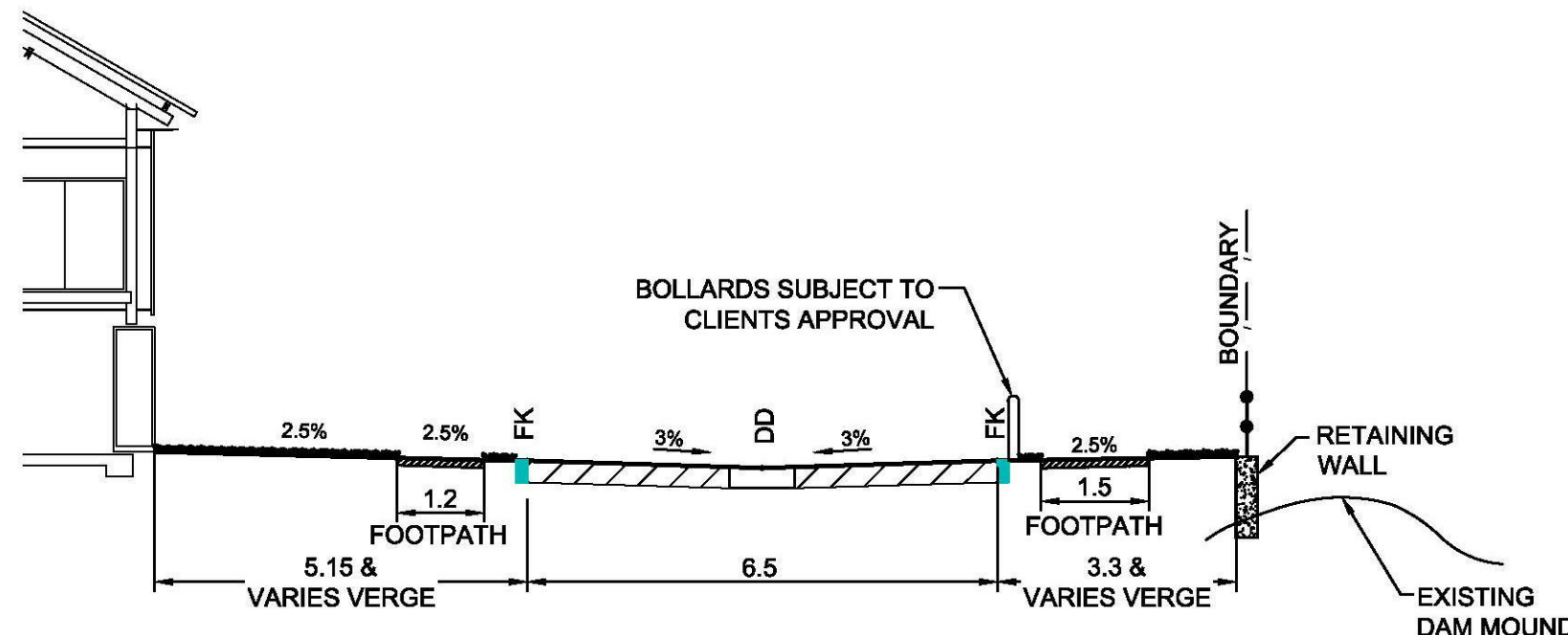
TYPICAL CROSS SECTION ROAD 3
ADJACENT TO EXISTING DAM
SCALE 1:100 NAT



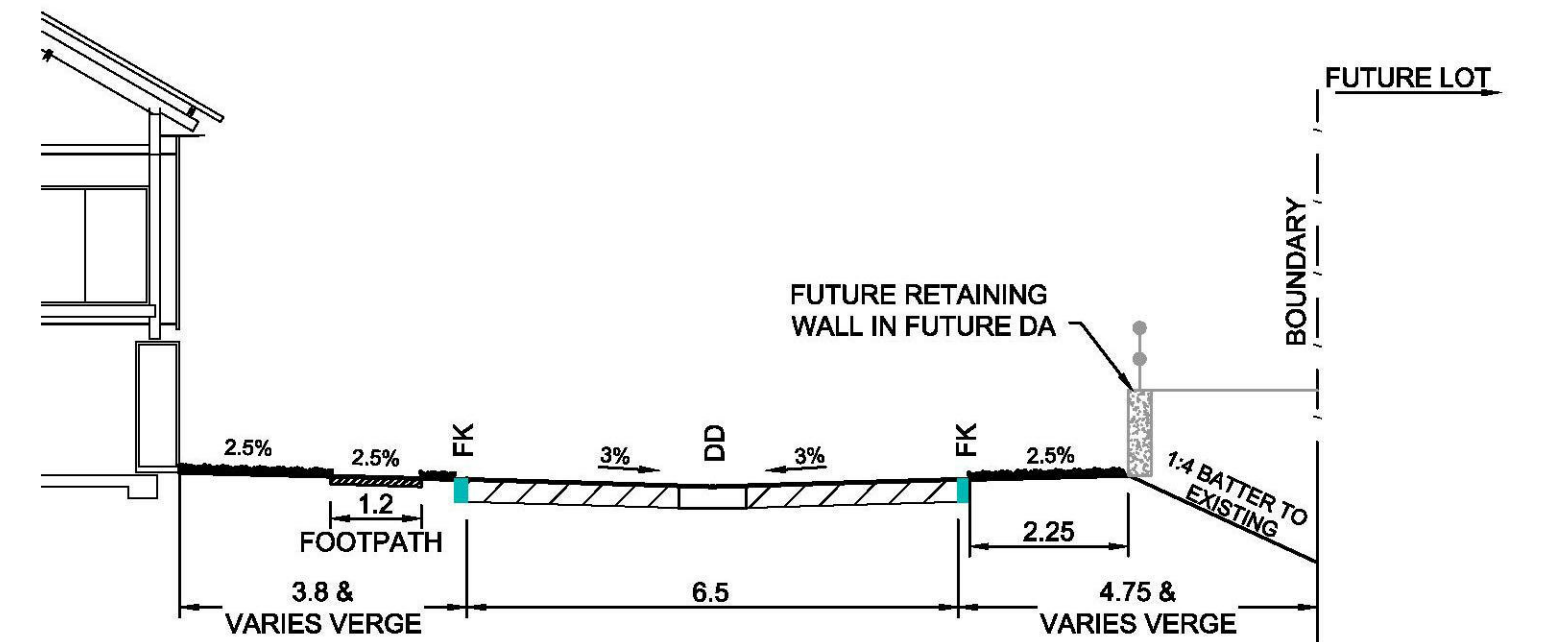
TYPICAL CROSS SECTION ROAD 3
ADJACENT TO FUTURE DA WITH PARKING
SCALE 1:100 NAT



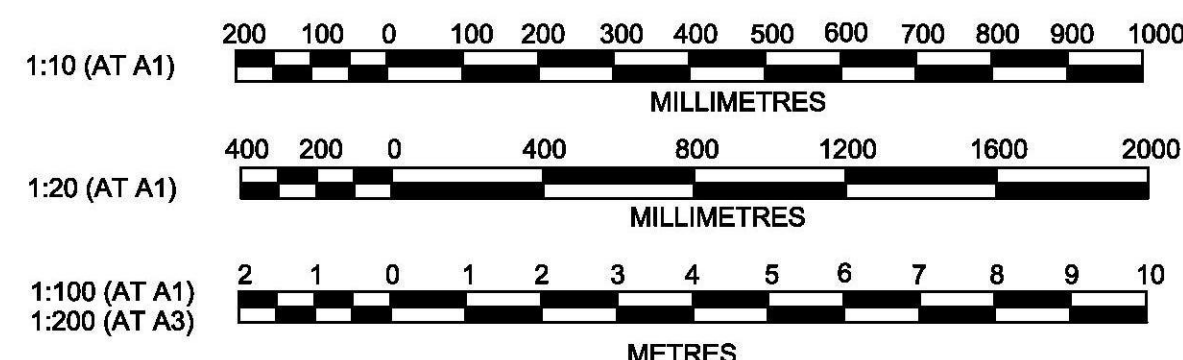
TYPICAL CROSS SECTION DRIVEWAY 1
WITH PARKING
SCALE 1:100 NAT



TYPICAL CROSS SECTION ROAD 3
ADJACENT TO EXISTING DAM WITH
RETAINING WALL
SCALE 1:100 NAT



TYPICAL CROSS SECTION ROAD 3
WITH ADJACENT FUTURE DA
SCALE 1:100 NAT



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JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
TYPICAL SECTIONS

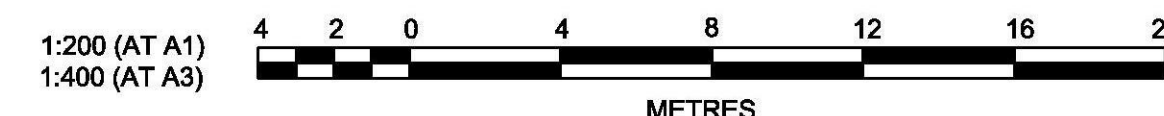
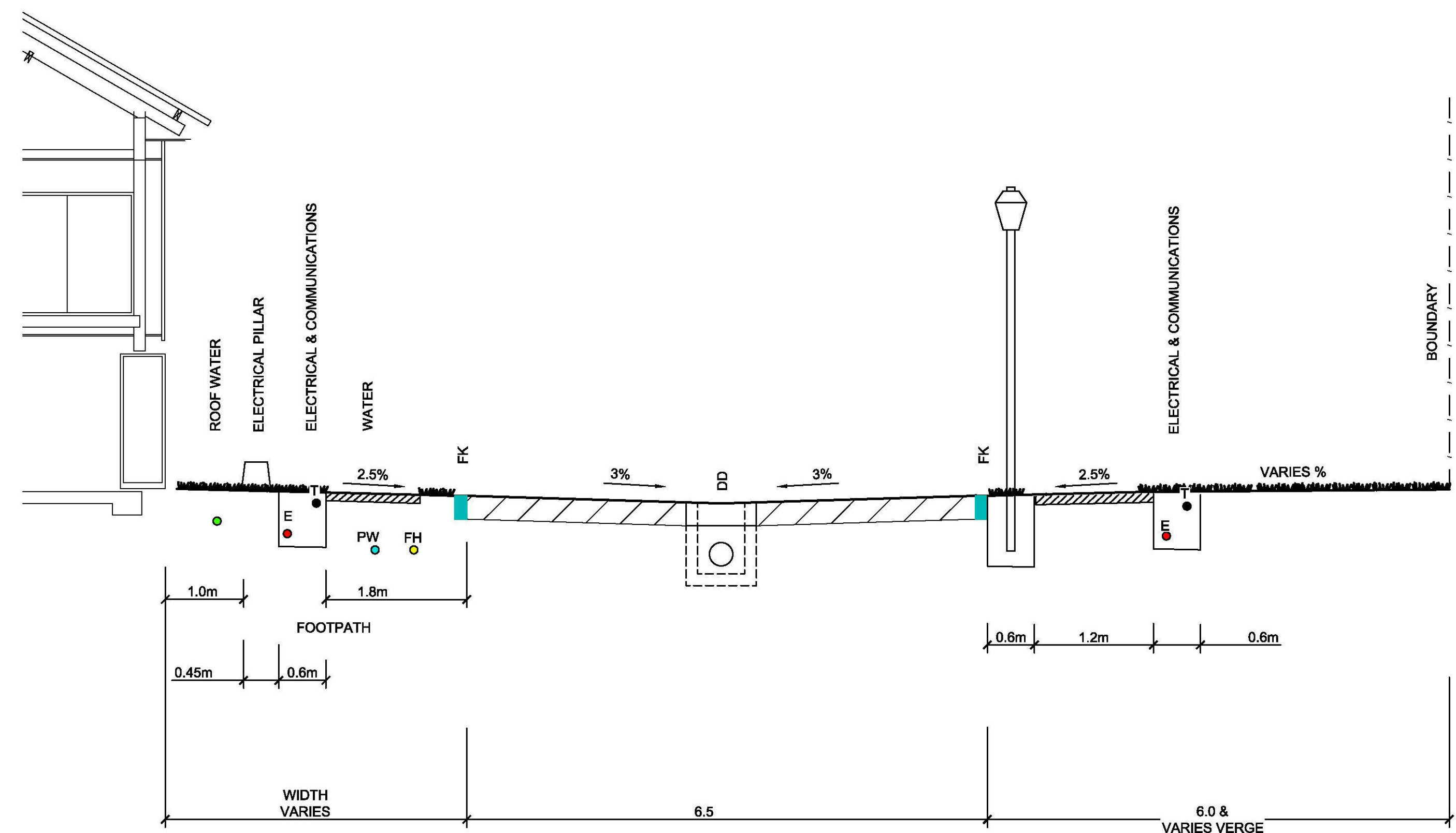
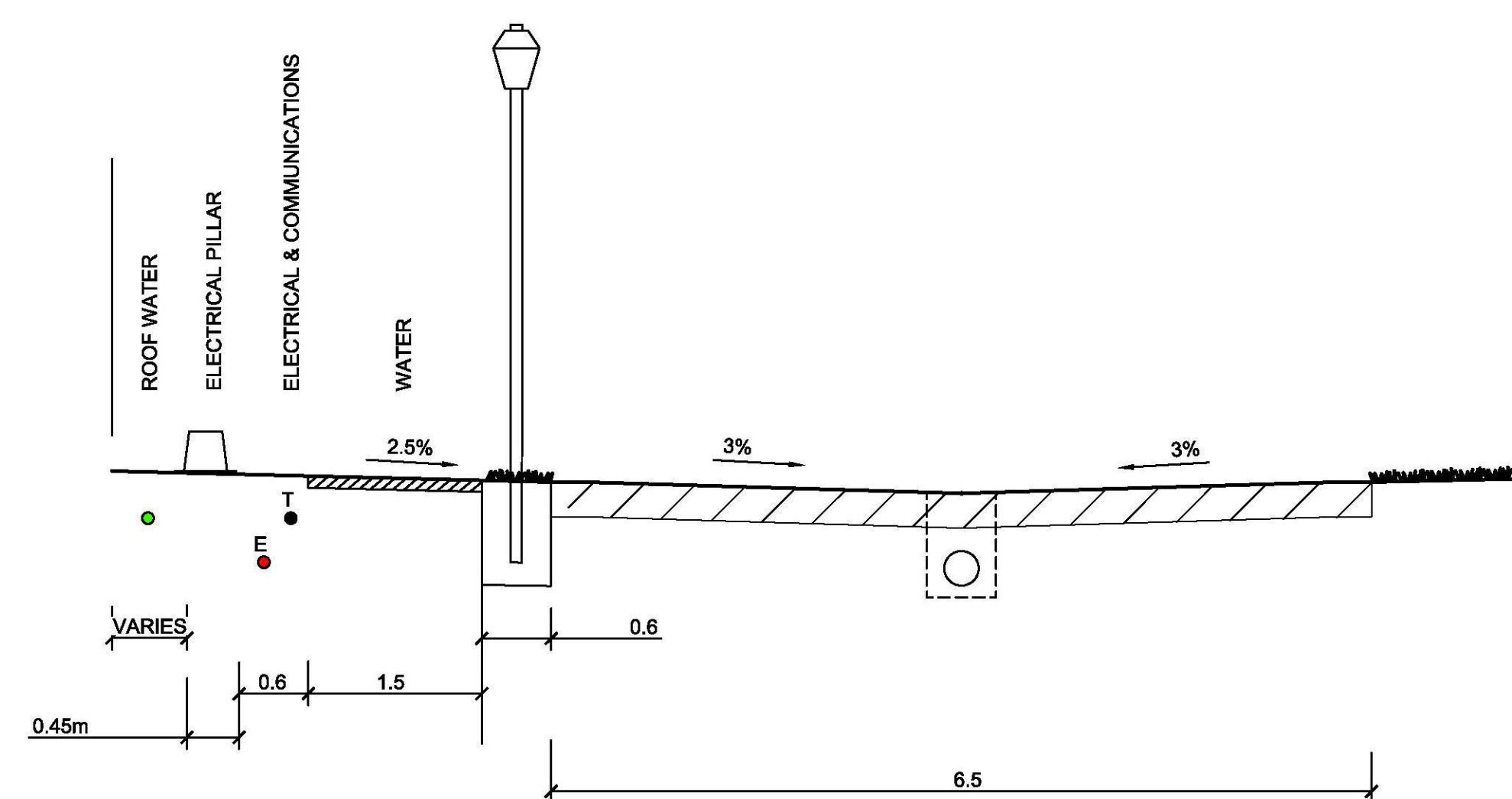
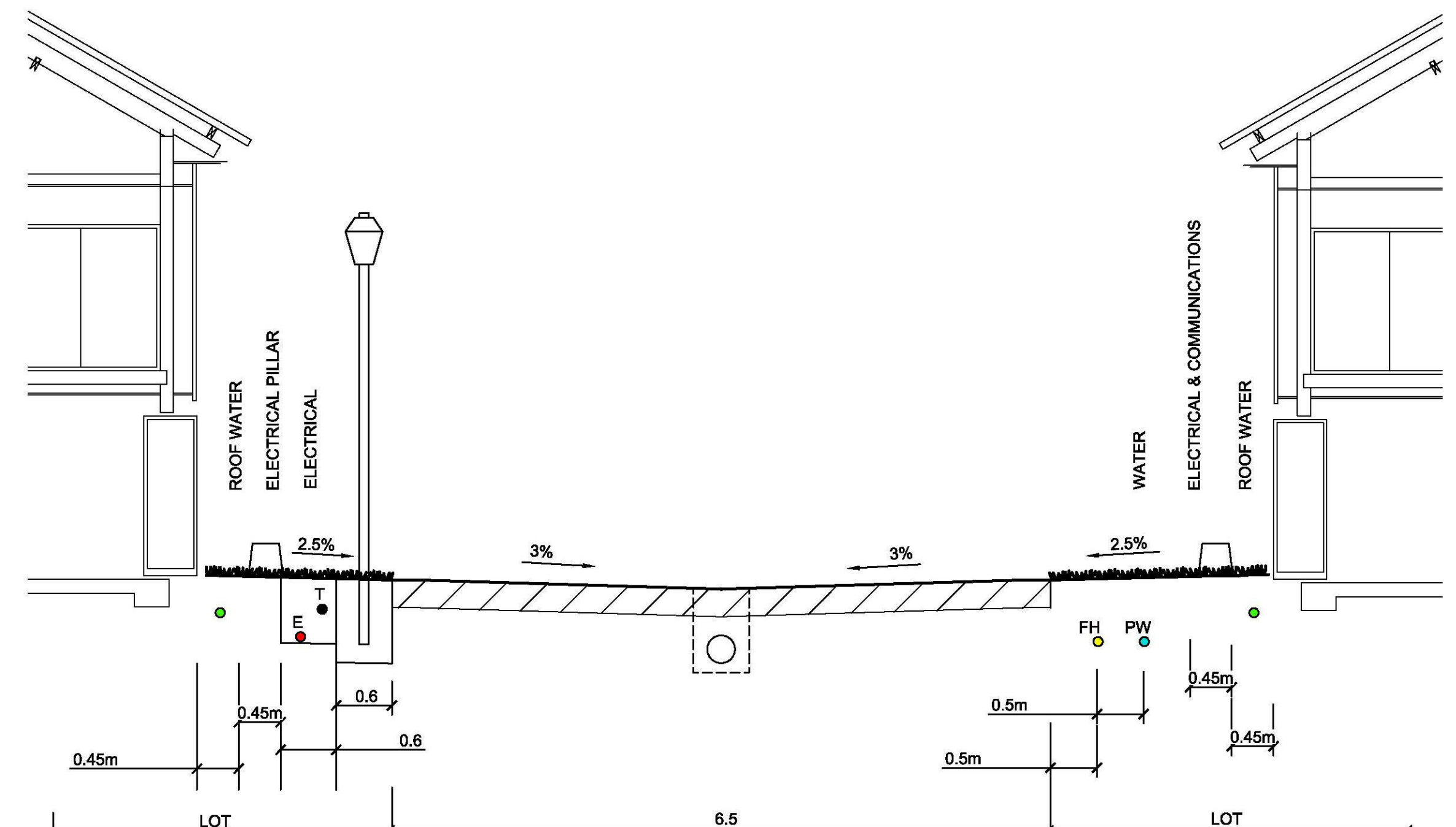
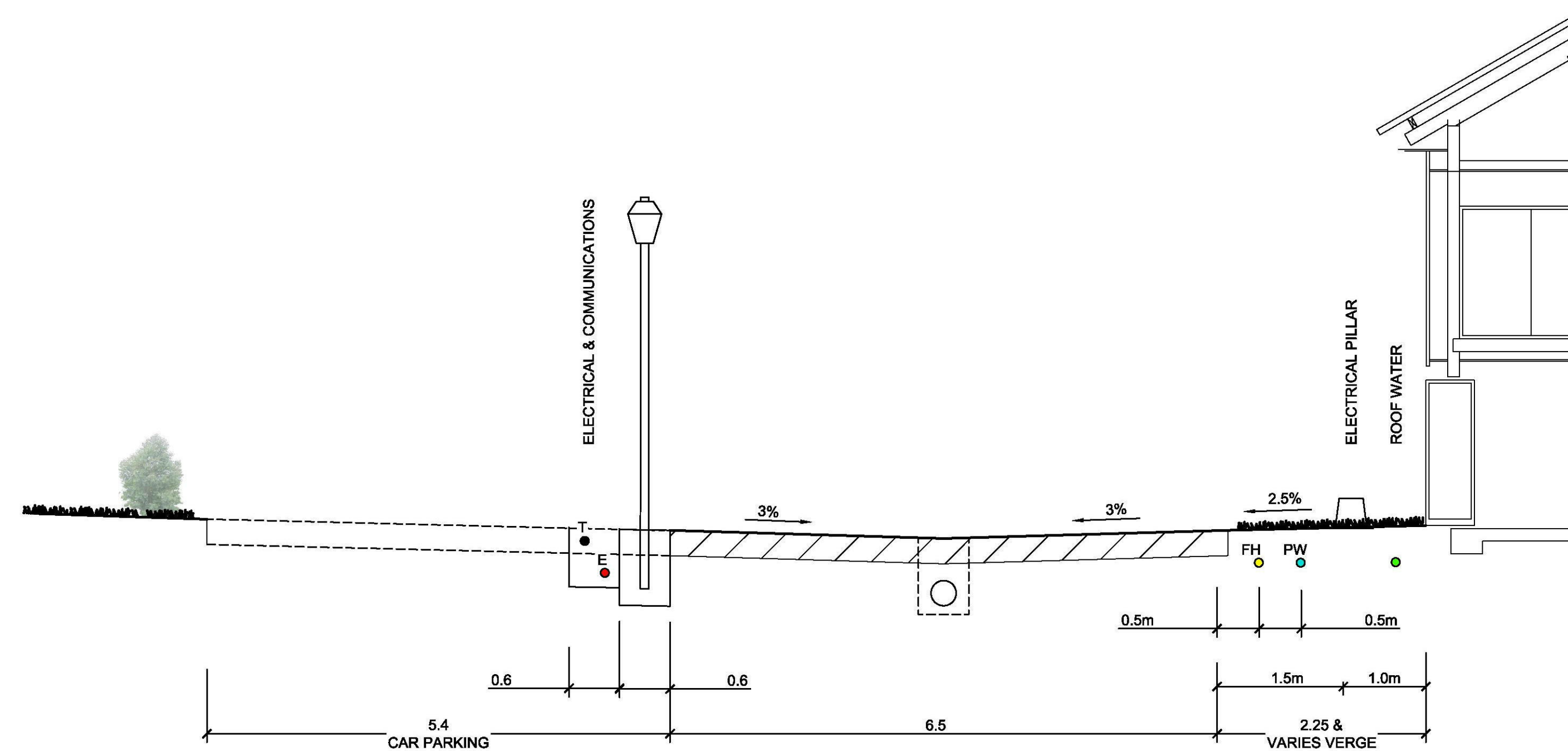
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AZIMUTH:
DATUM:
ORIGIN:

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A	ISSUED FOR CONSTRUCTION CERTIFICATE	MMC	NM	DJH	MS
	AMENDMENT	DES	DRN	CKD	APR
					DATE

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DATUM:

ORIGIN:



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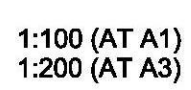
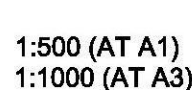
ISSUED FOR CONSTRUCTION APPROVAL

**JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
TYPICAL SECTIONS SHOWING SERVICES**

PLAN No:
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FILE No: 11048702CC110

SHEET SIZE:	A1 ORIGINAL
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**JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
ROAD LONGITUDINAL SECTIONS
SHEET 1 OF 2**

PLAN No:	
11048702/CC111	A
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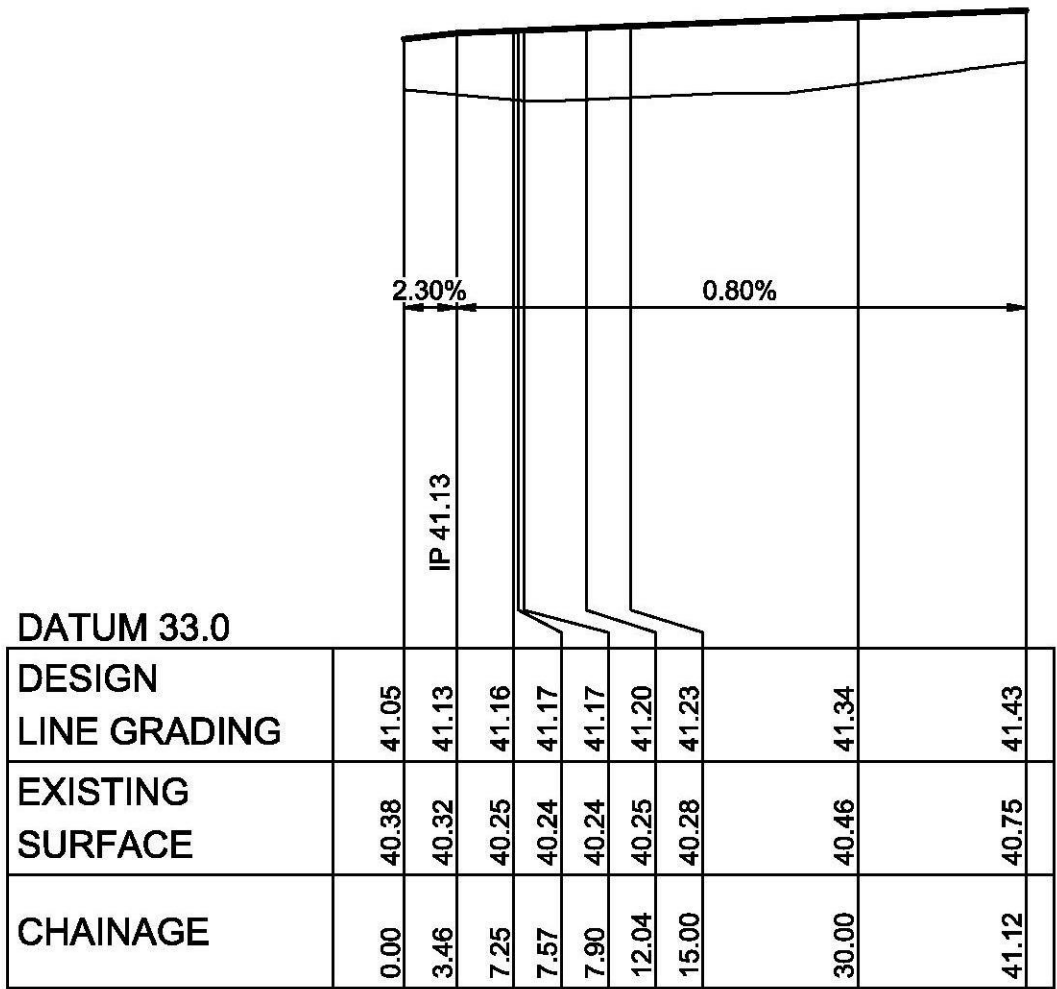
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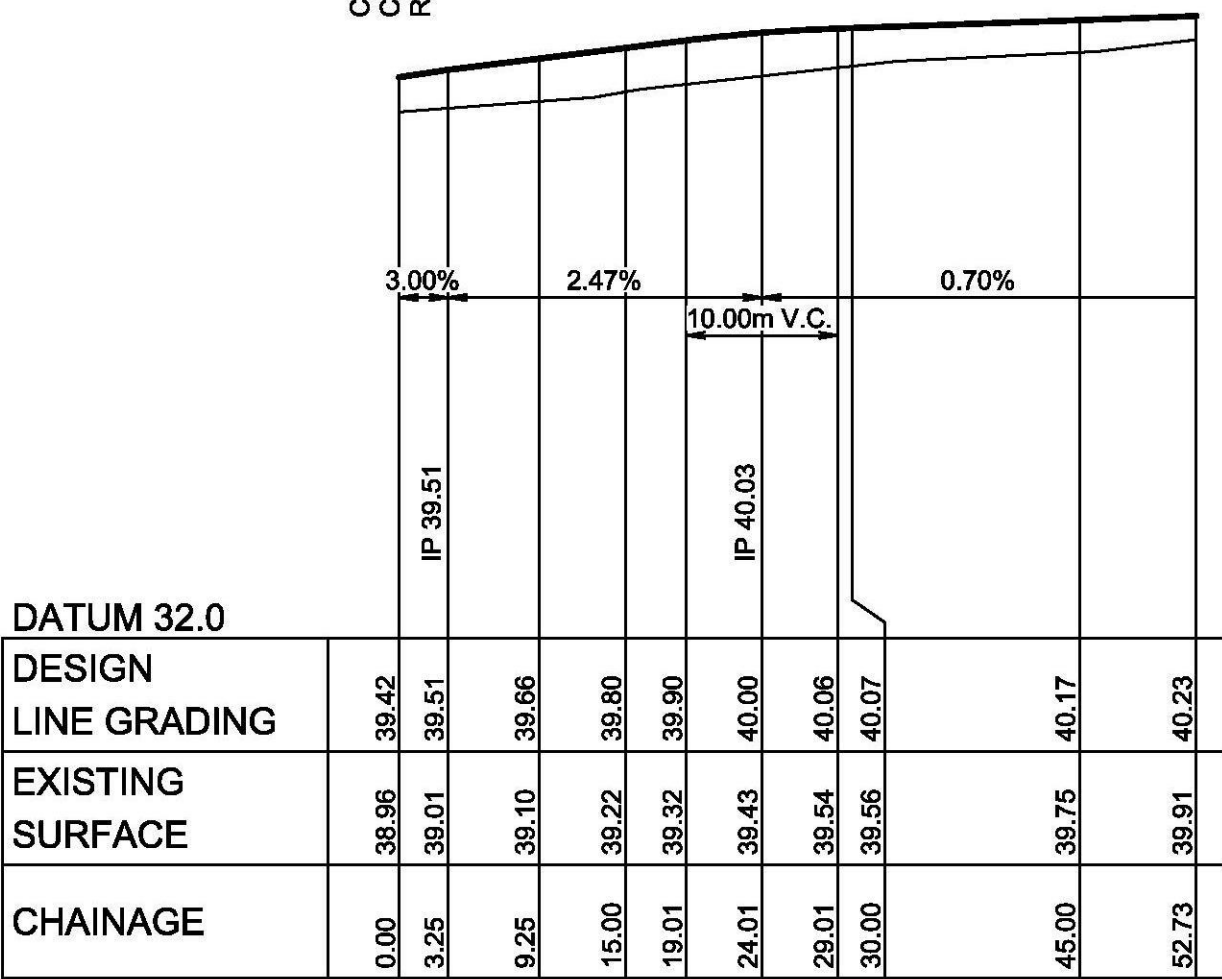
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CL OF ROAD 3
RL 41.053m



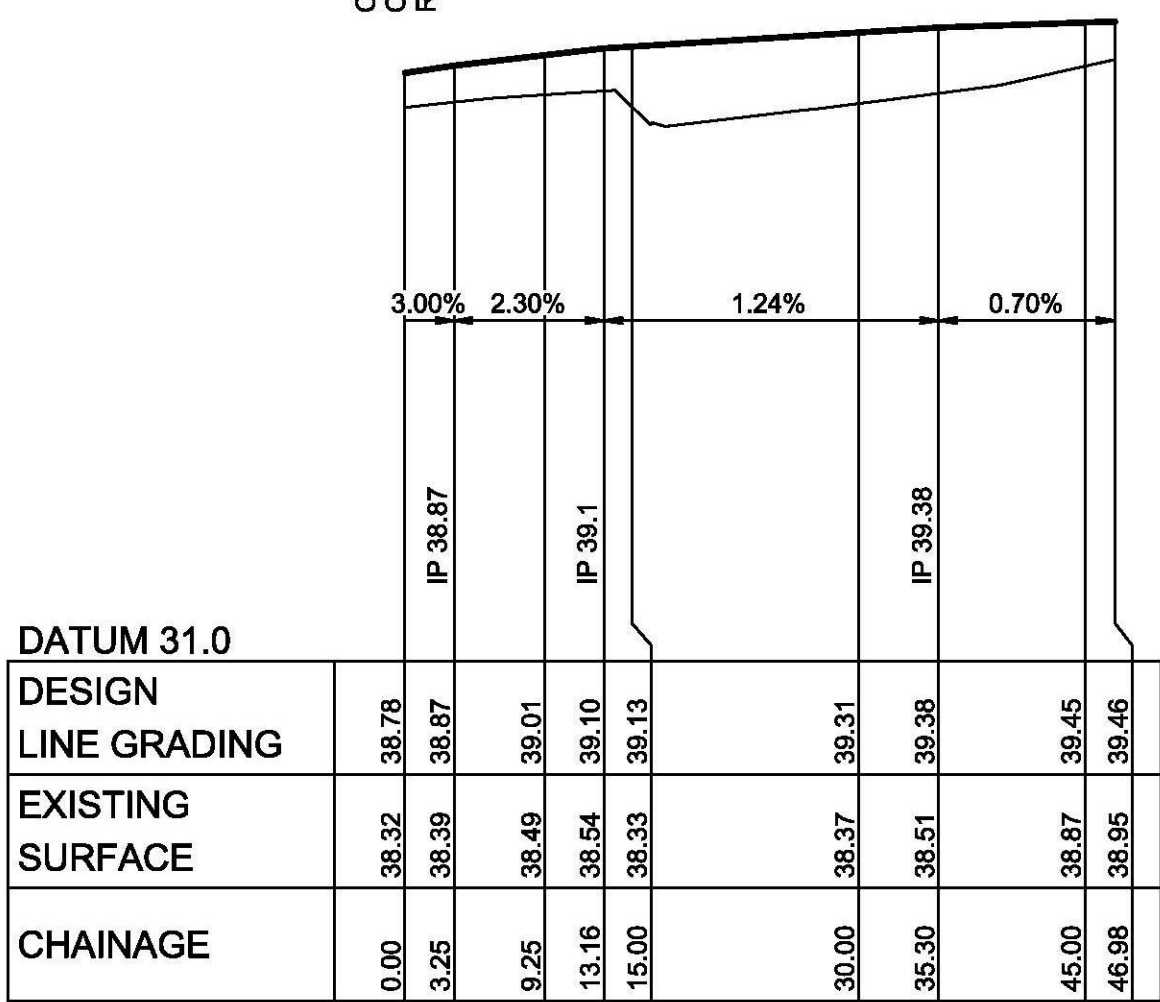
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HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

CH 0m
CL OF ROAD 3
RL 39.407m



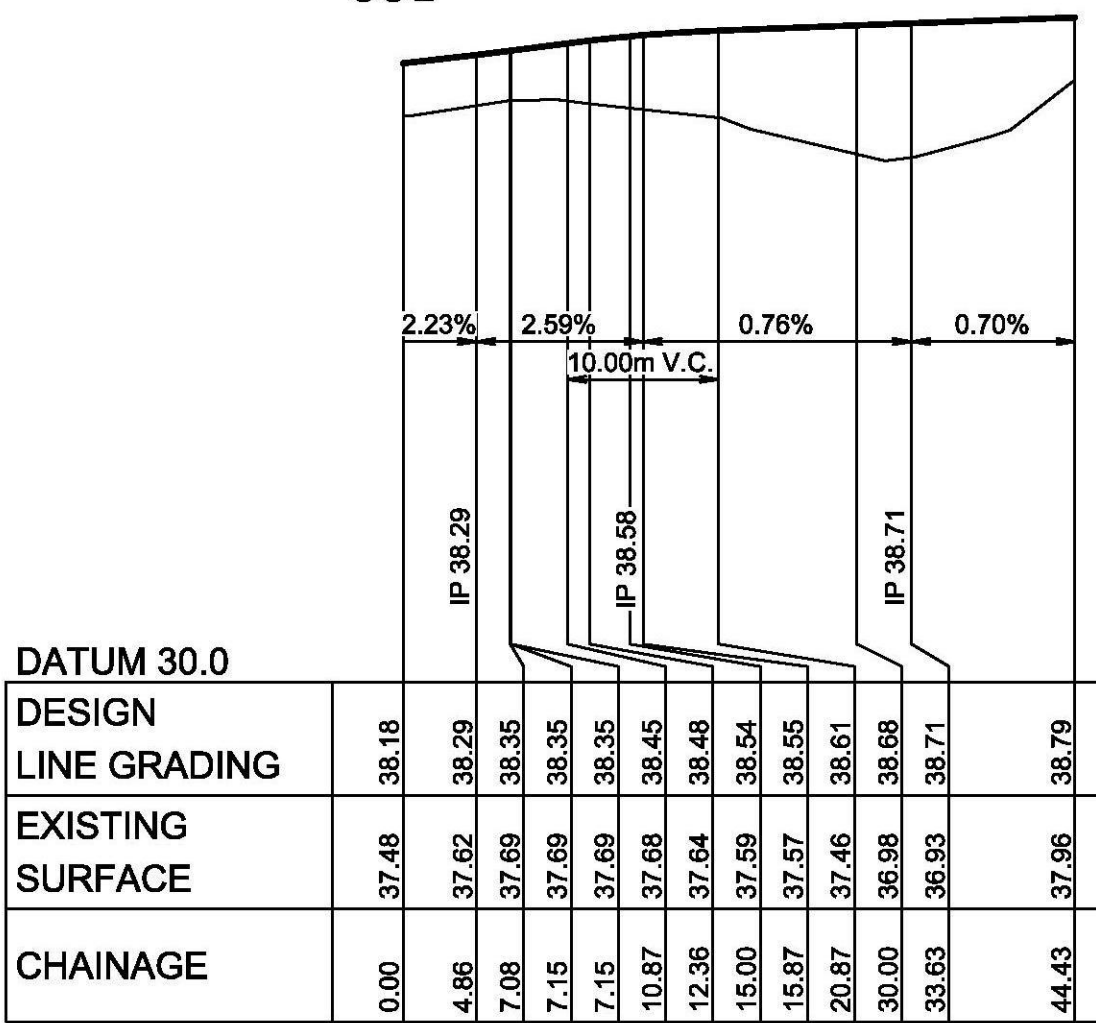
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HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

CH 0m
CL OF ROAD 3
RL 38.77m



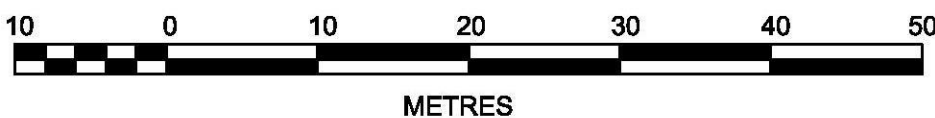
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HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

CH 0m
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RL 38.177m

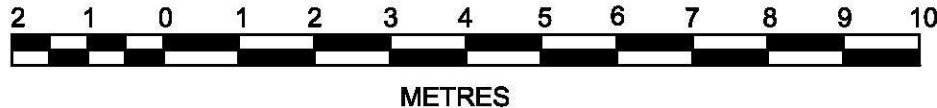


LONGITUDINAL SECTION DRIVEWAY 4
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

1:500 (AT A1)
1:1000 (AT A3)



1:100 (AT A1)
1:200 (AT A3)



A	ISSUED FOR CONSTRUCTION CERTIFICATE	MMC	NM	DJH	MS
	AMENDMENT	DES	DRN	CKD	APR
					DATE

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AZIMUTH:

DATUM:

ORIGIN:



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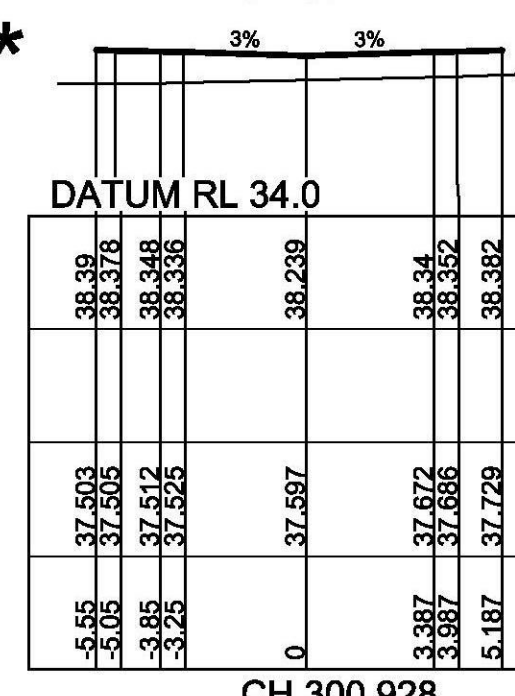
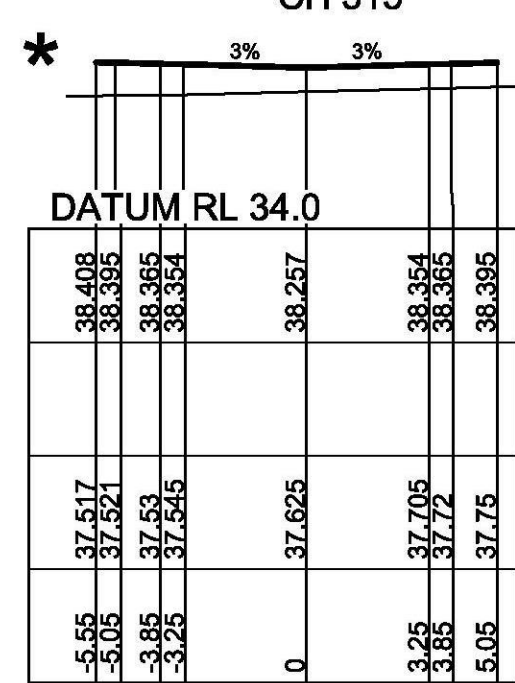
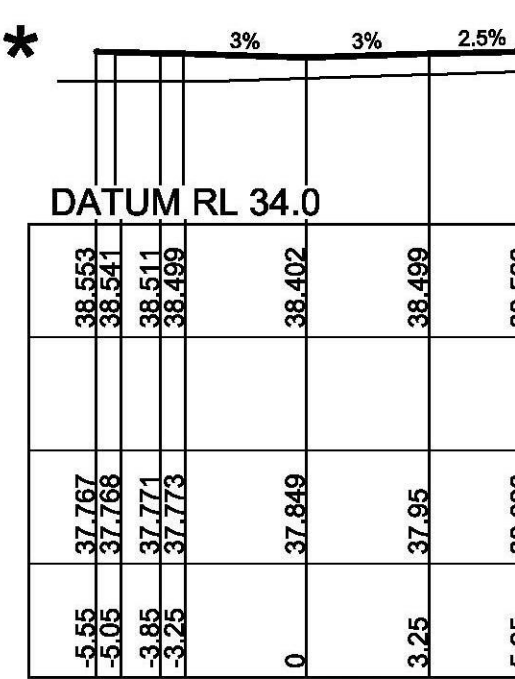
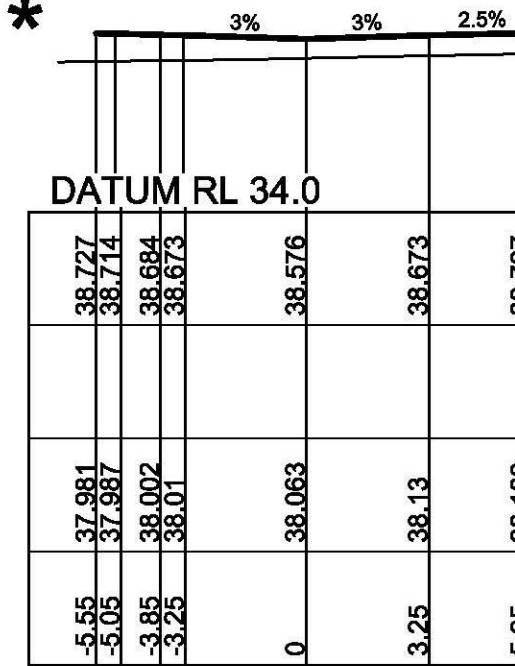
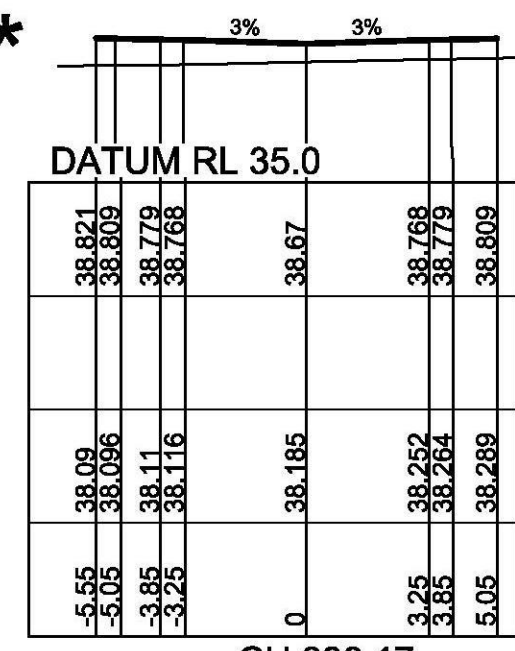
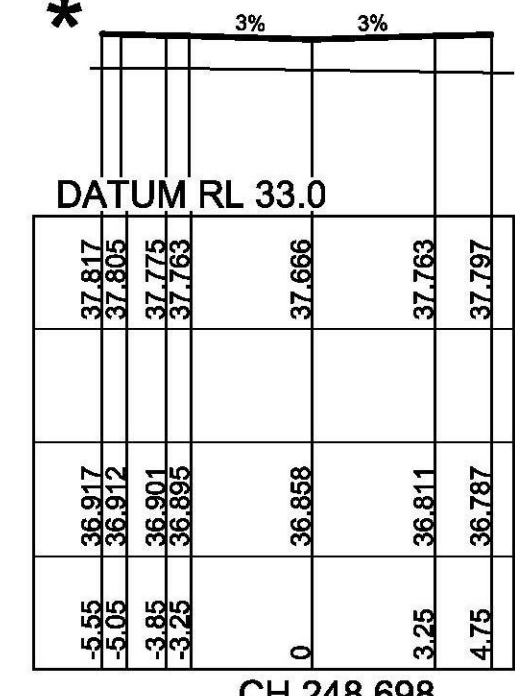
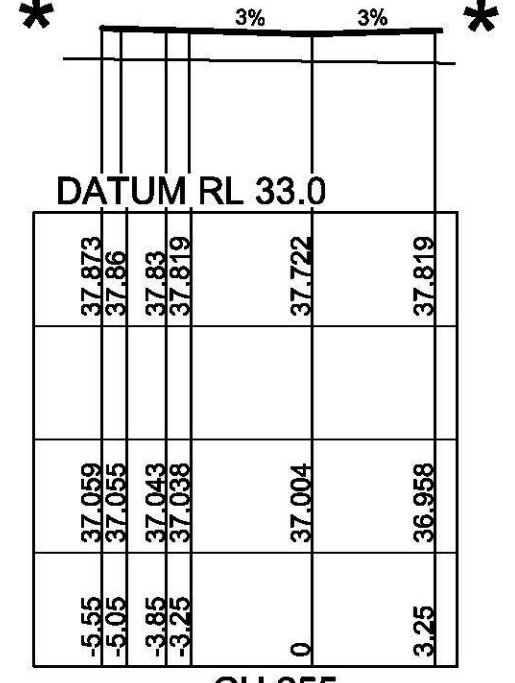
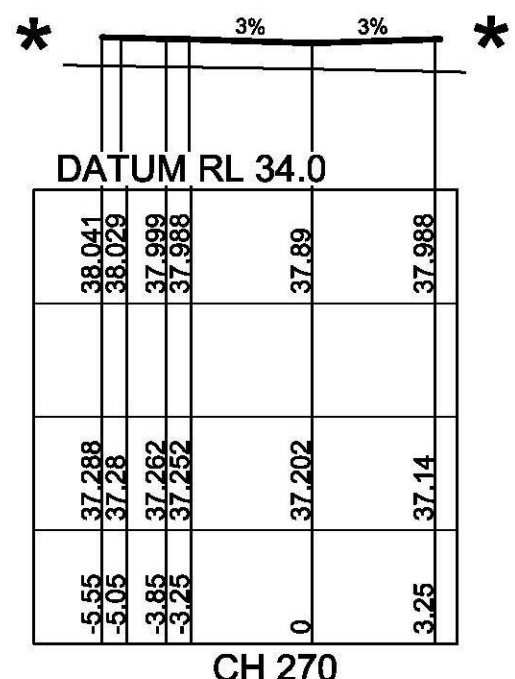
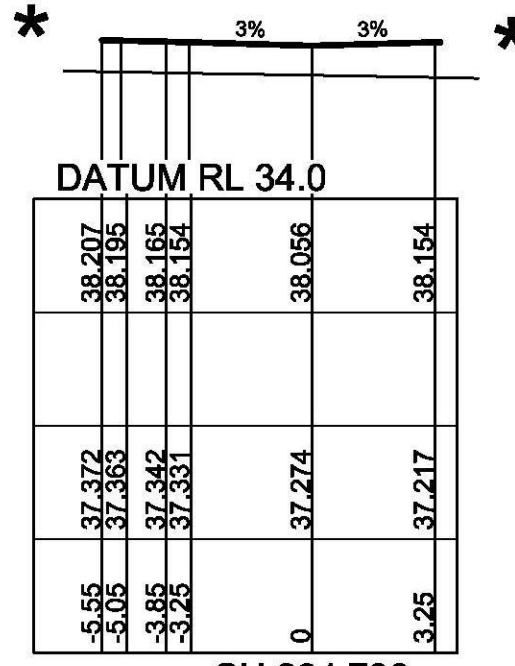
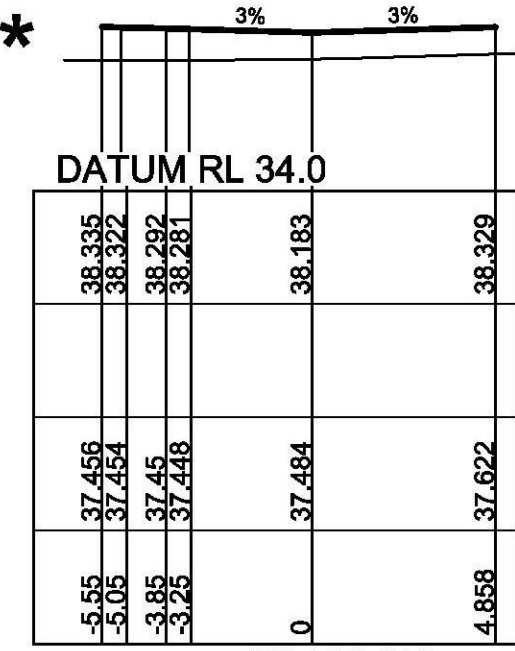
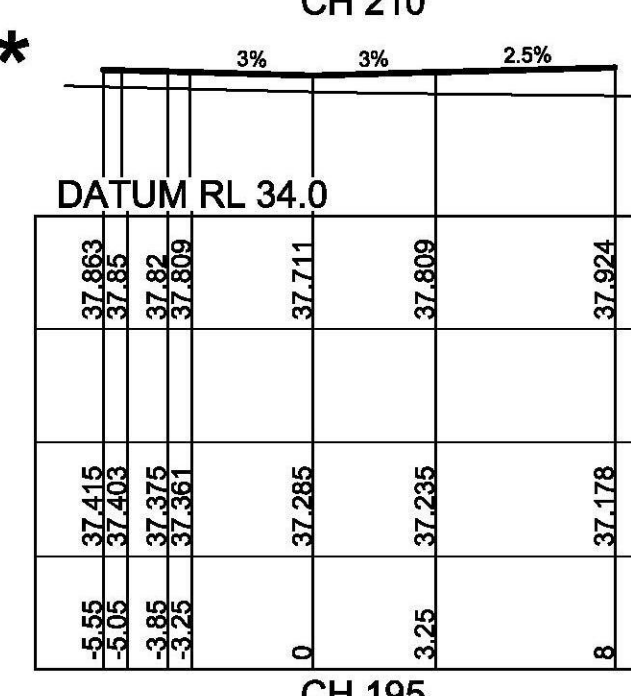
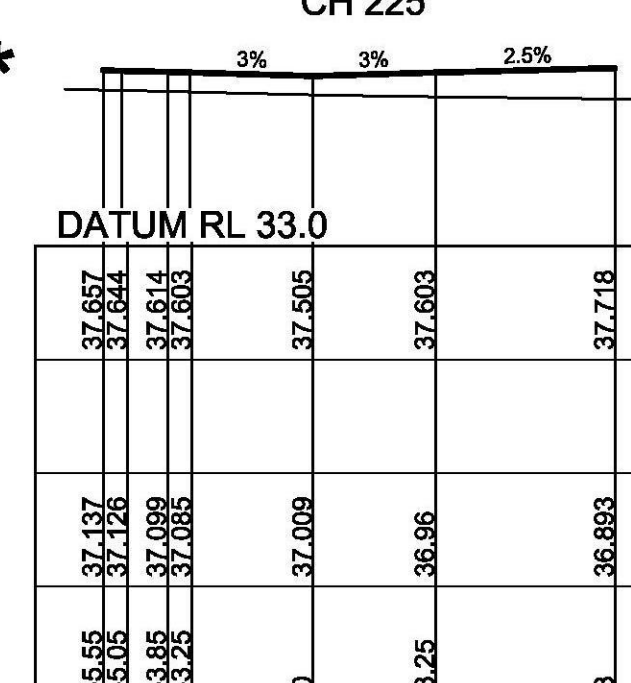
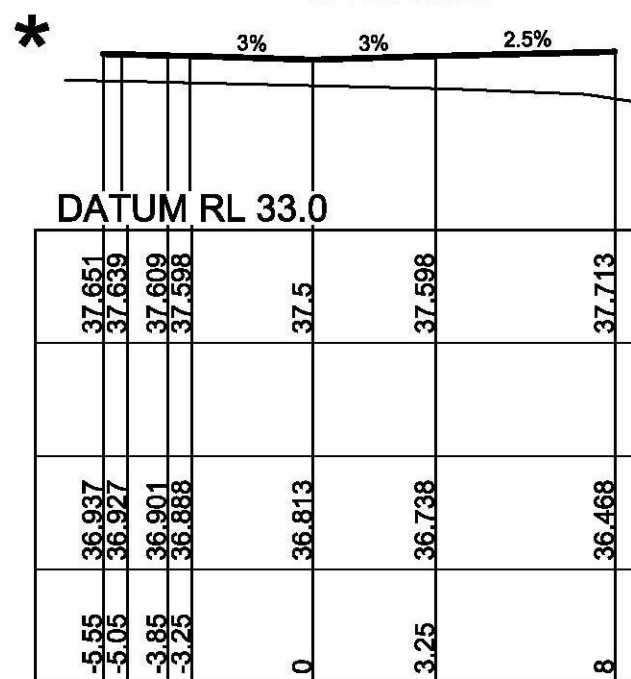
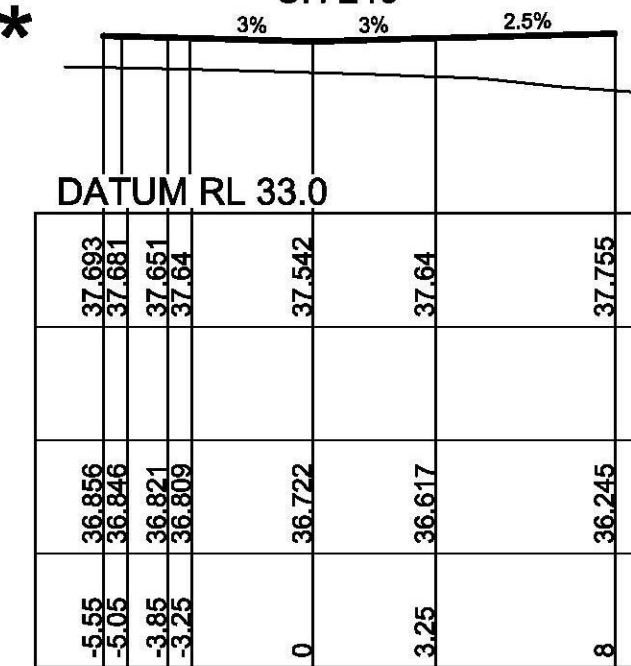
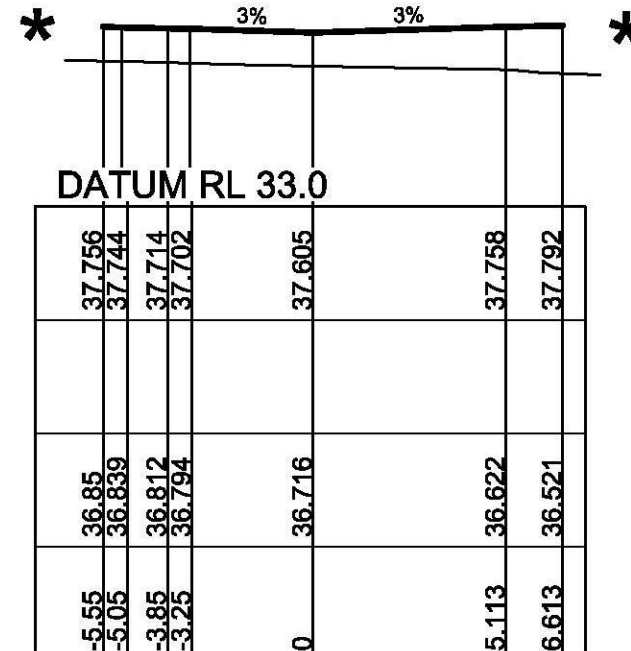
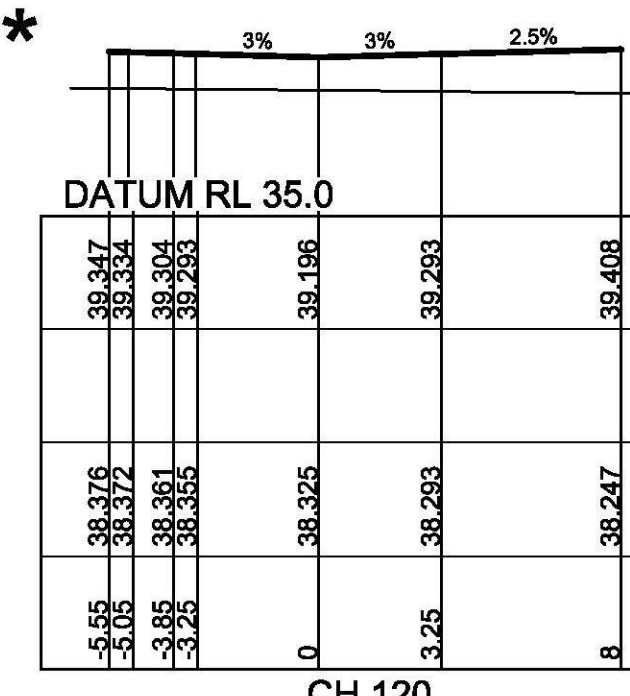
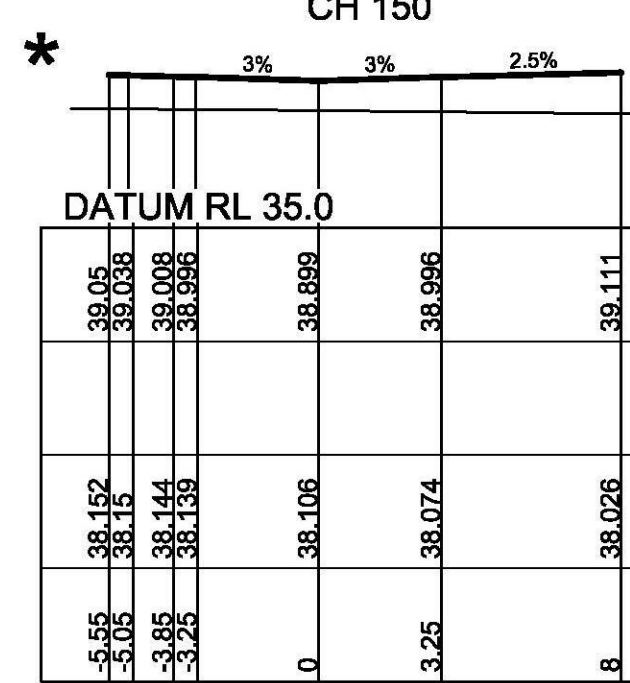
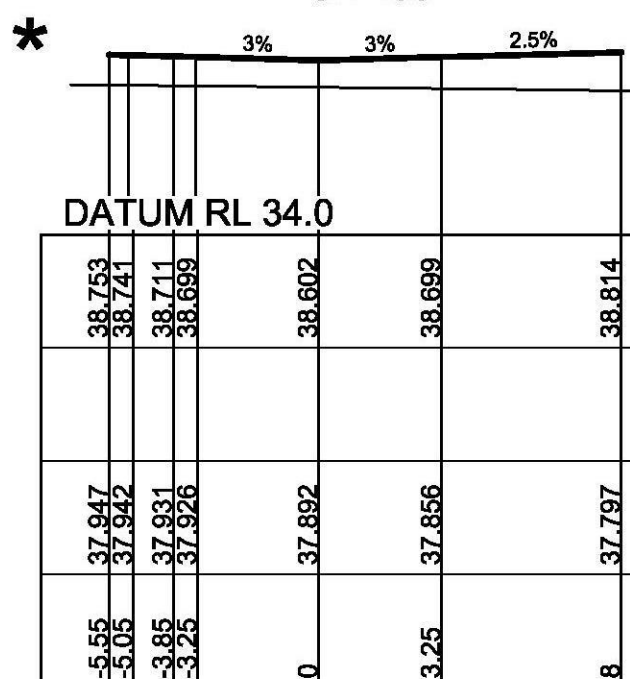
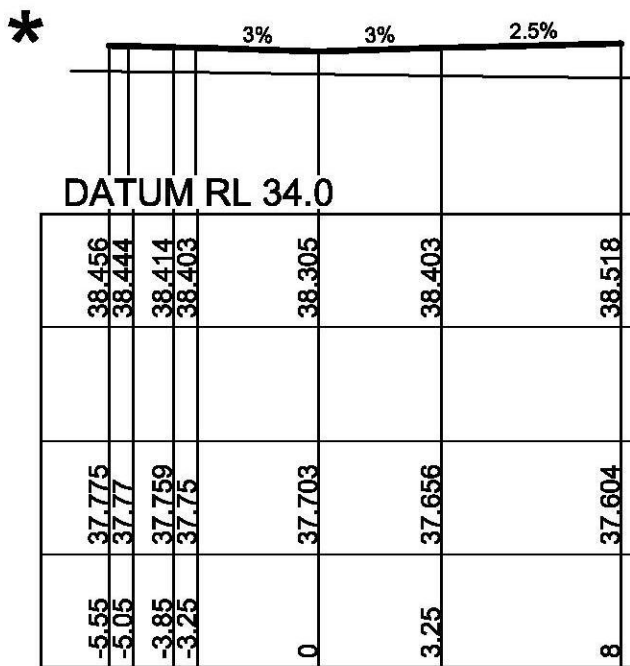
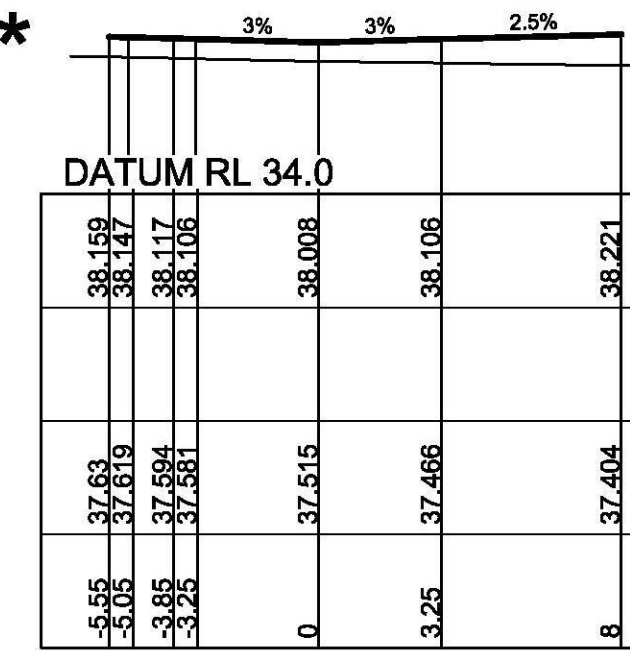
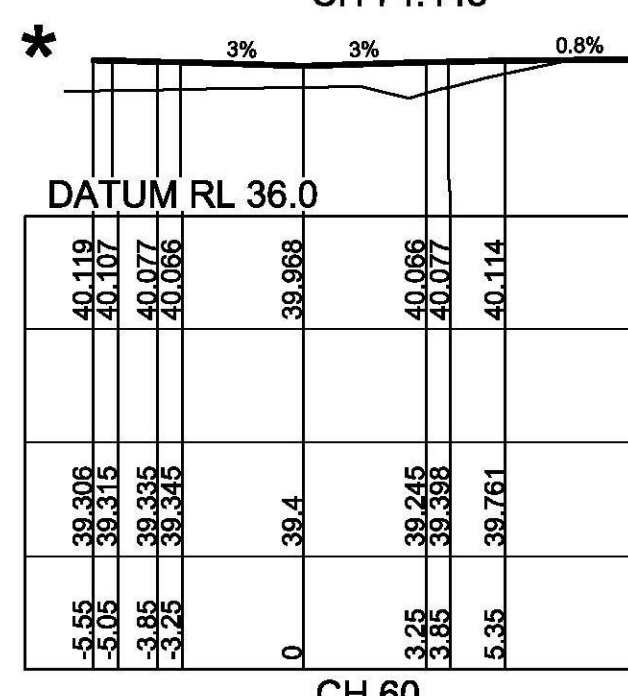
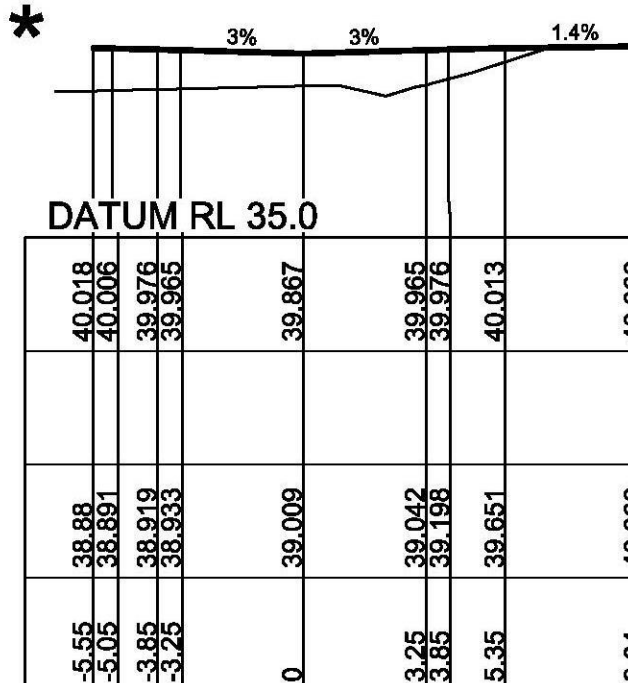
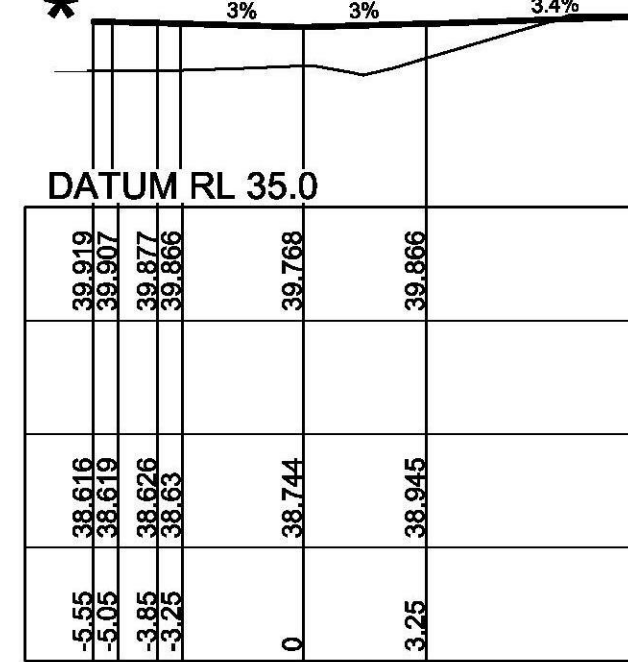
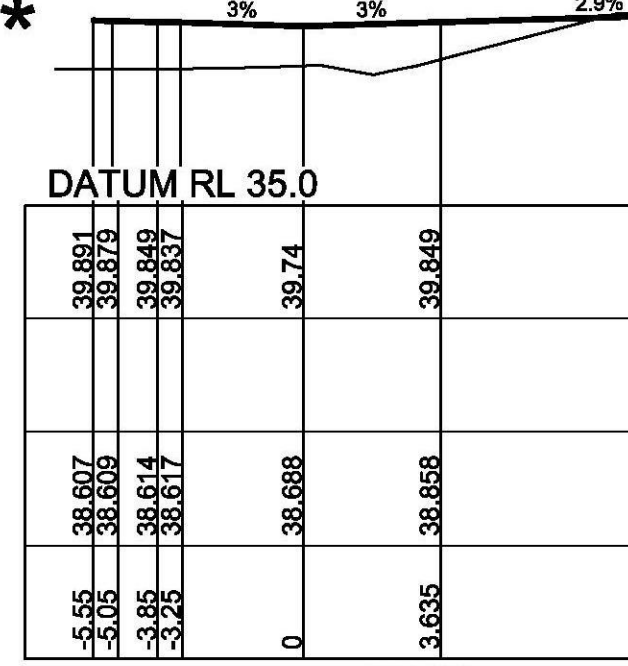
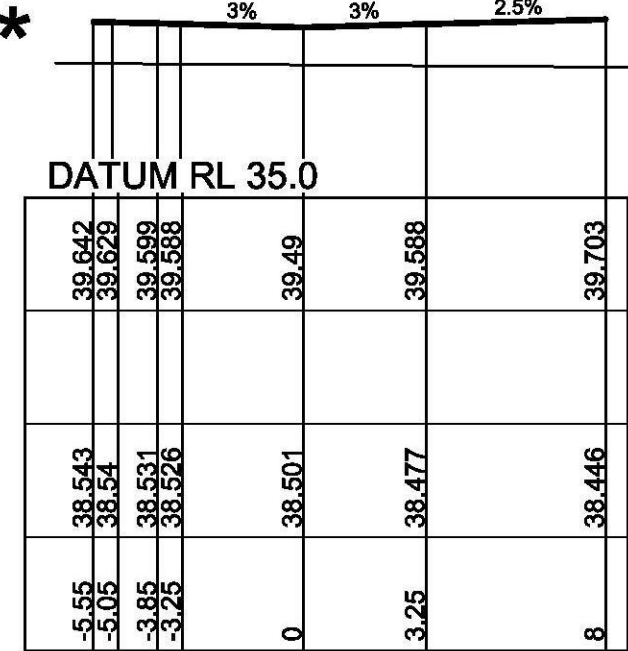
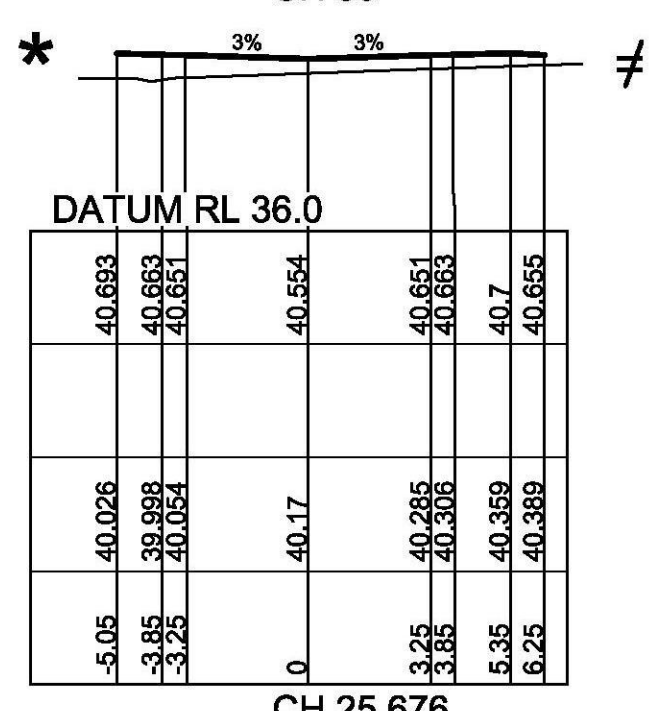
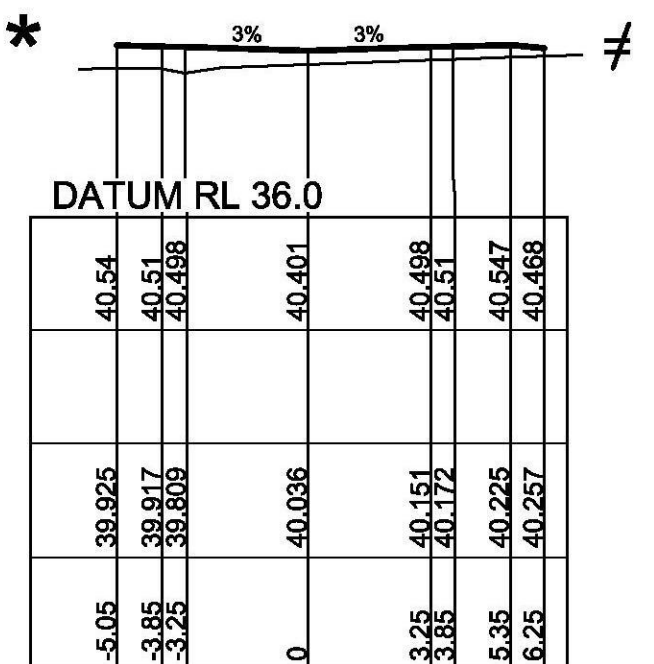
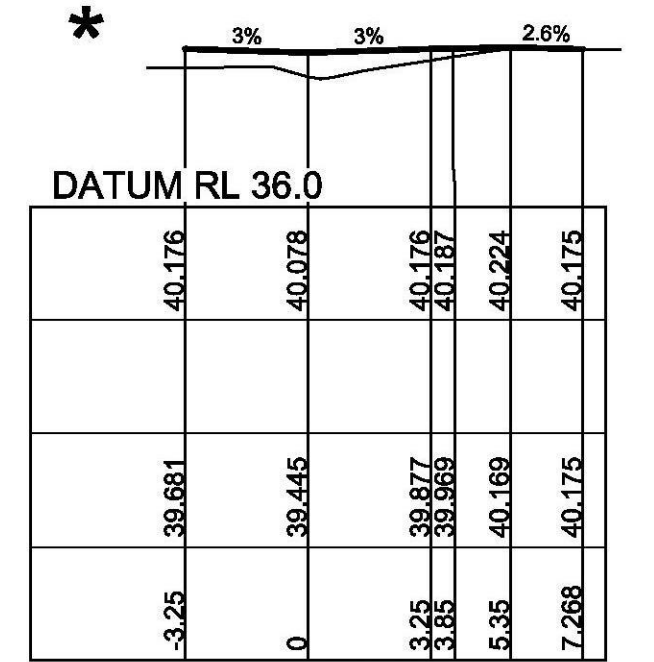
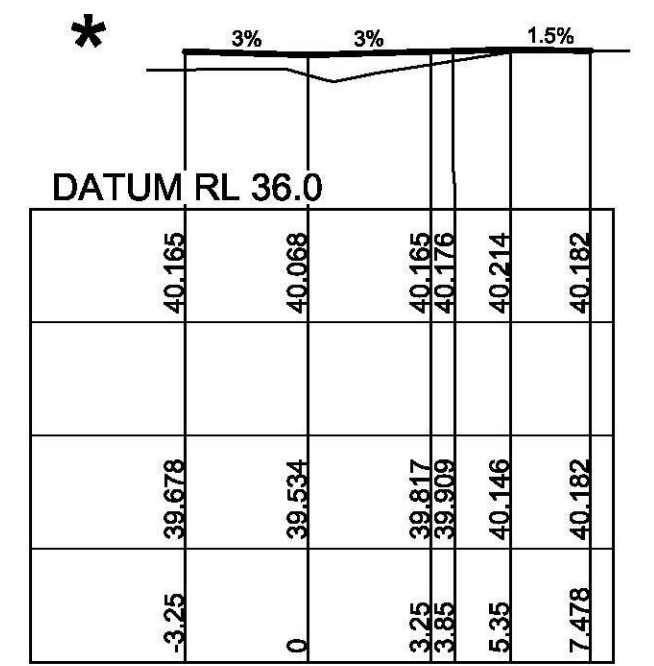
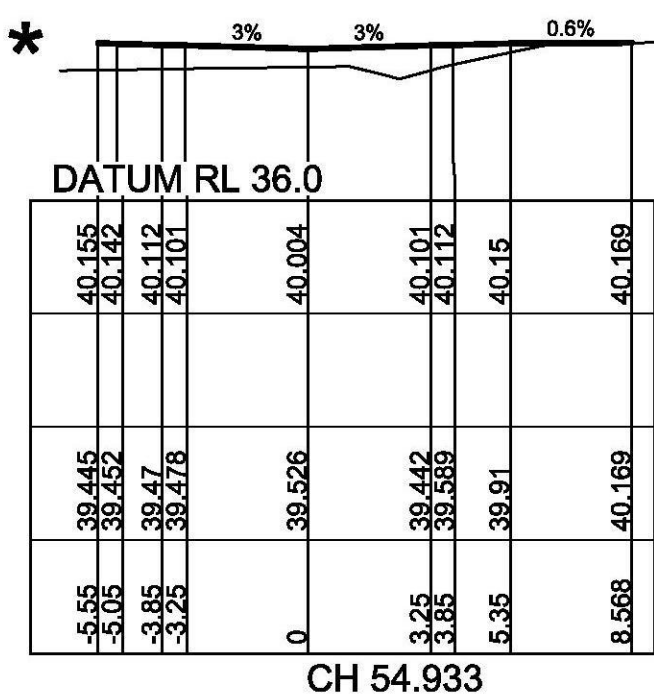
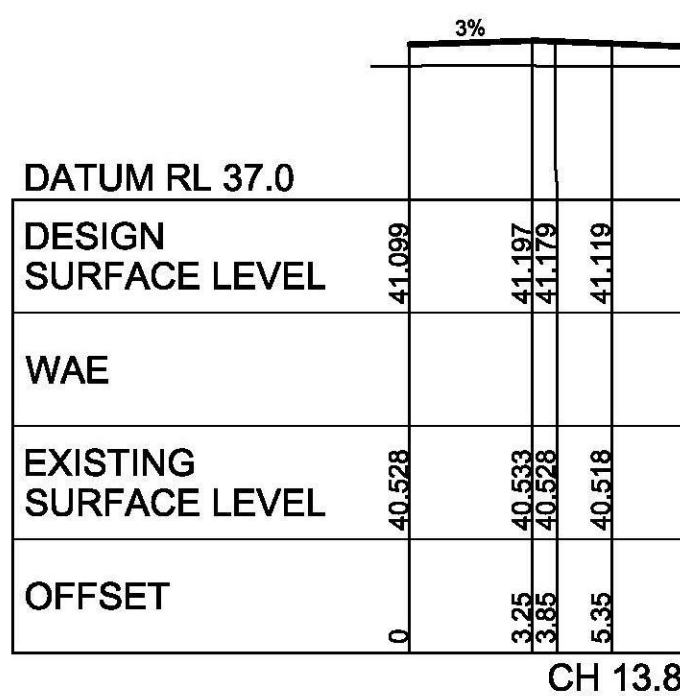
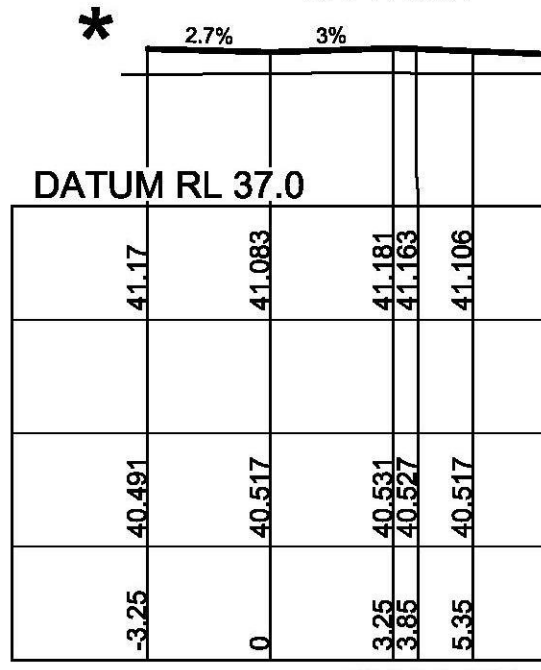
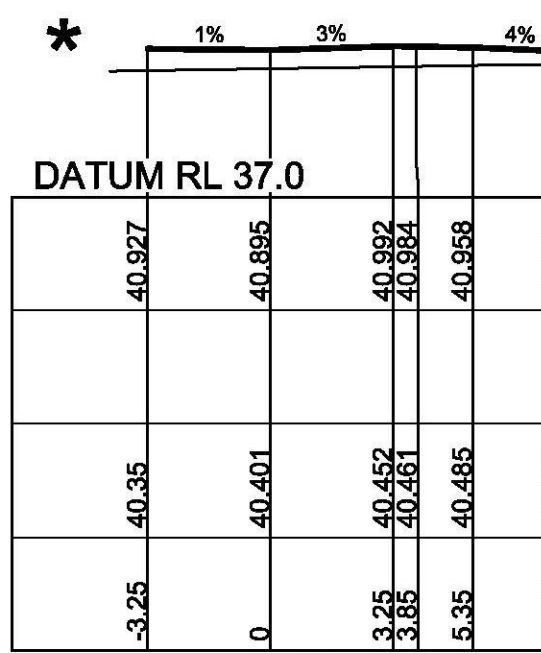
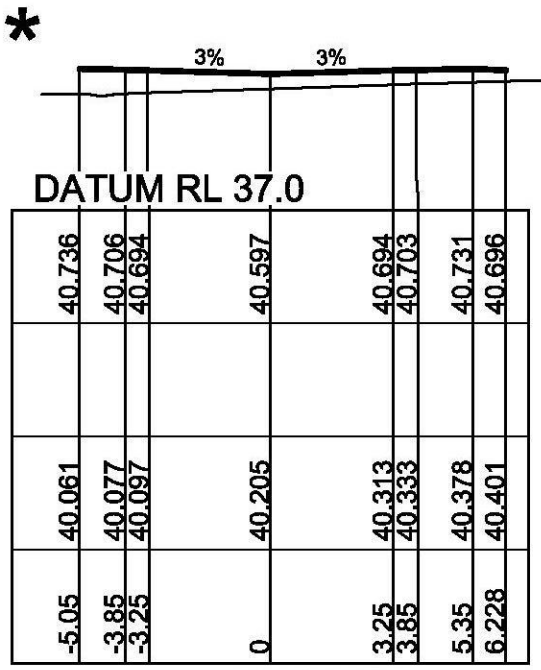
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JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
ROAD LONGITUDINAL SECTIONS
SHEET 2 OF 2

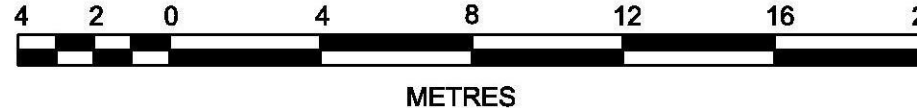
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* NOTE
FOR LOT GRADING
REFER TO PLAN CC06
≠ DENOTES RESERVE



1:200 (AT A1)
1:400 (AT A3)



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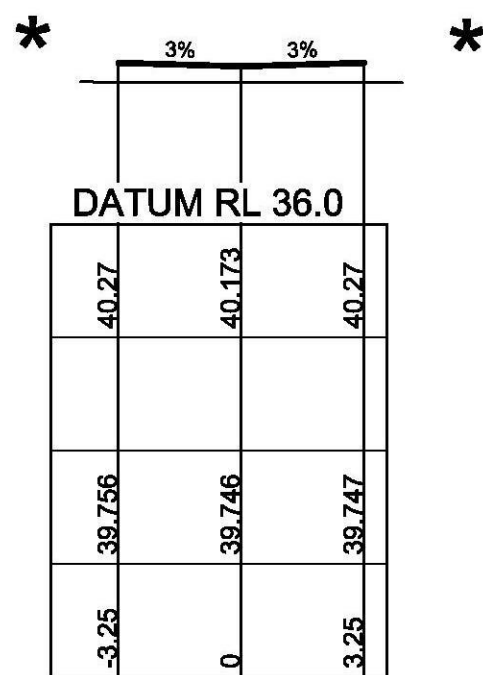
JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
CROSS SECTIONS
SHEET 1 OF 3

PLAN No:
11048702/CC113 A

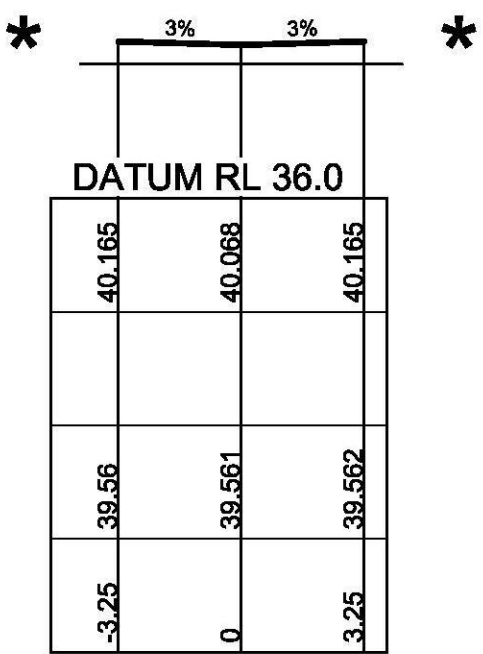
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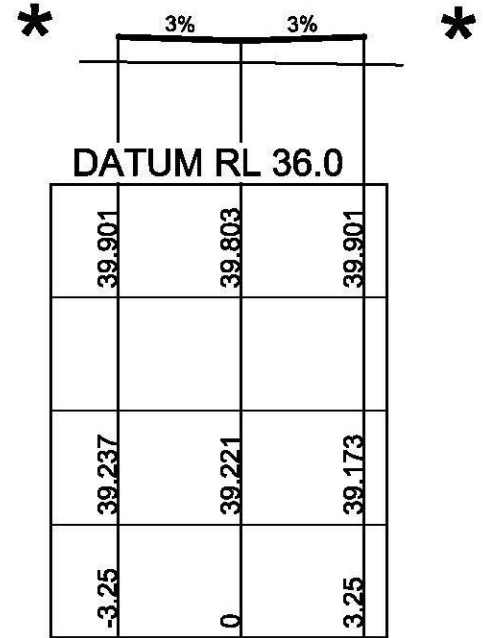
* NOTE
FOR LOT GRADING
REFER TO PLAN CC06
≠ DENOTES RESERVE



CH 45



CH 30

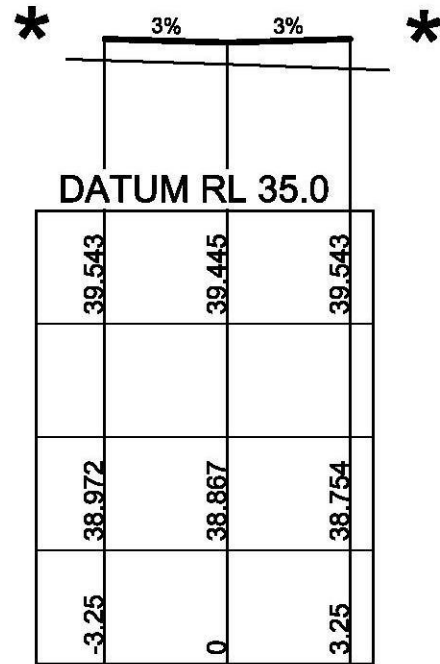


CH 15

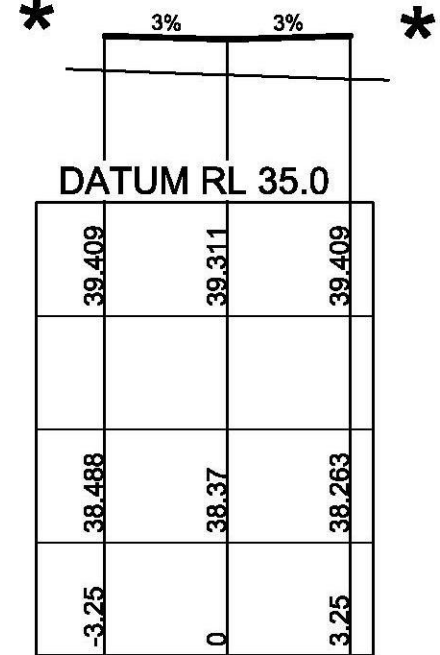
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WAE				
EXISTING SURFACE LEVEL	39.135	39.095	39.056	
OFFSET	-3.25	0	3.25	

CH 9.25

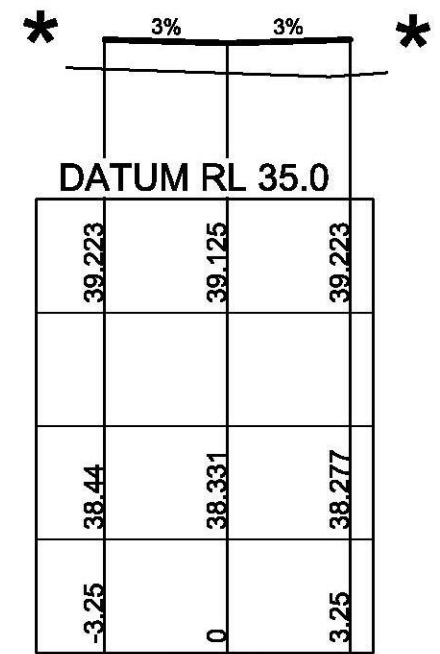
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CH 45



CH 30

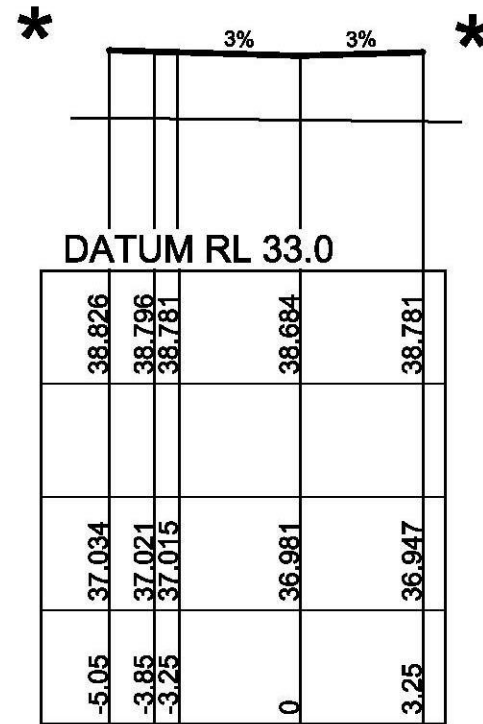


CH 15

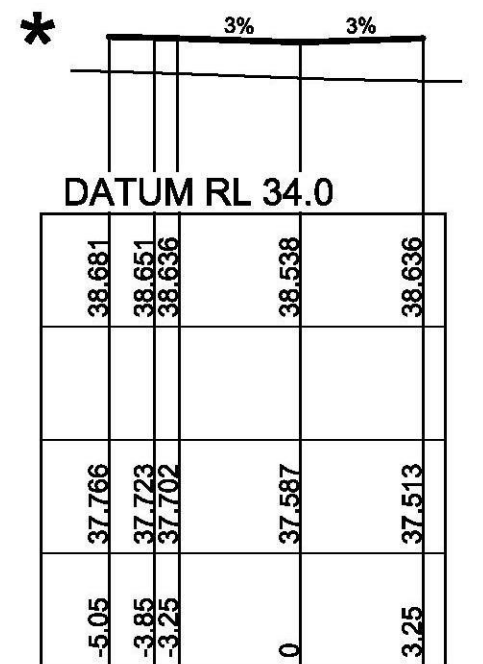
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WAE				
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CH 9.25

DRIVEWAY No.3.



CH 30



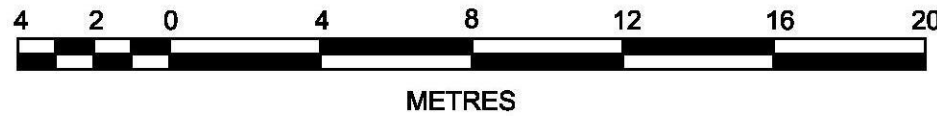
CH 15

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WAE				
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OFFSET	-5.05	-3.95	0	3.25

CH 12.361

DRIVEWAY No.4.

1:200 (AT A1)
1:400 (AT A3)



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DATUM:

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JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
CROSS SECTIONS
SHEET 3 OF 3

PLAN No:
11048702/CC115 **A**

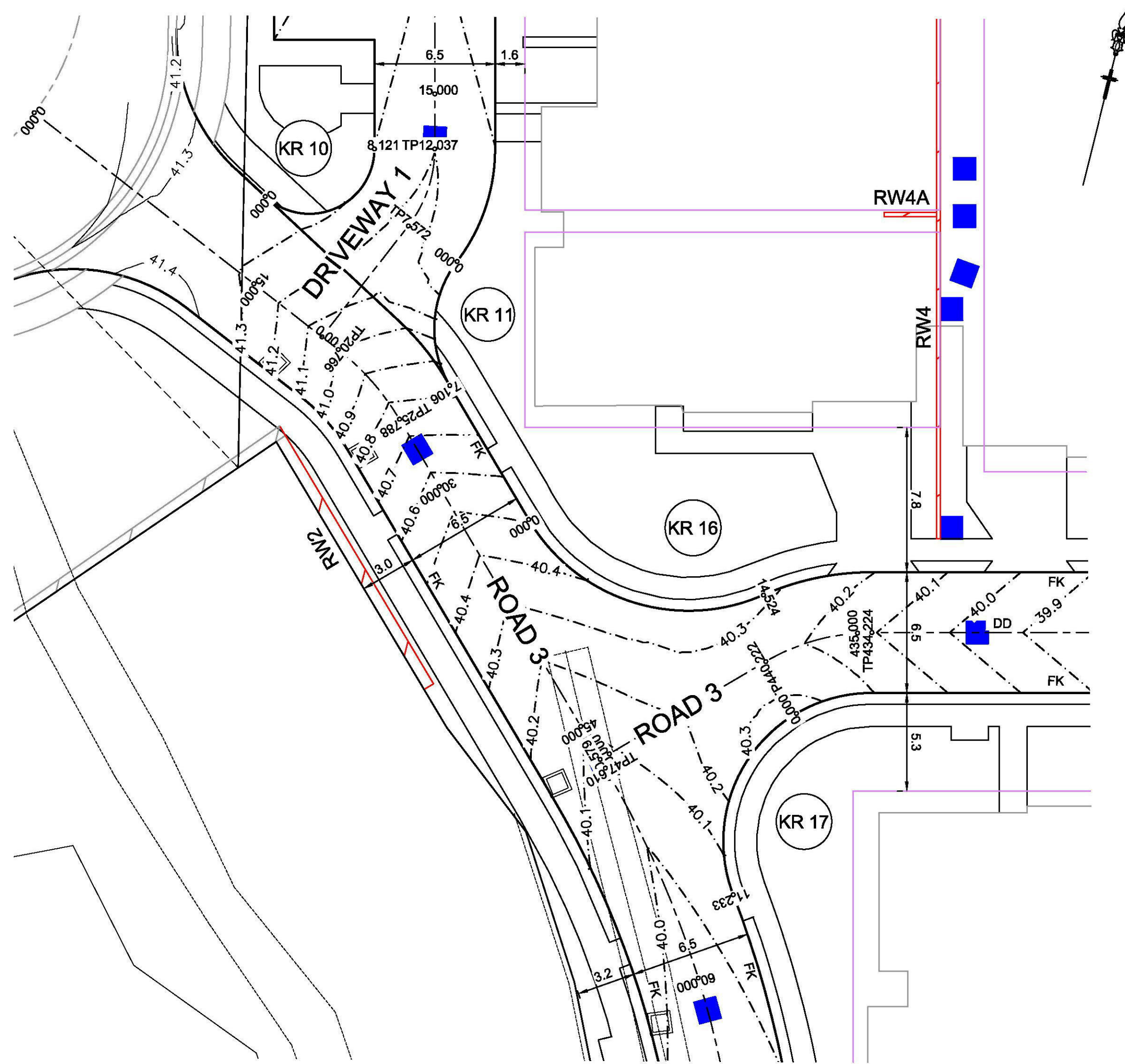
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SHEET SIZE: A1 ORIGINAL

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DESIGN LEVELS AND SETOUT
ARE TO LIP OF GUTTER

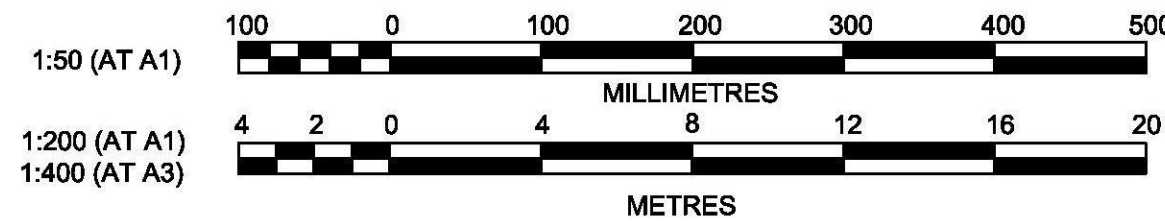
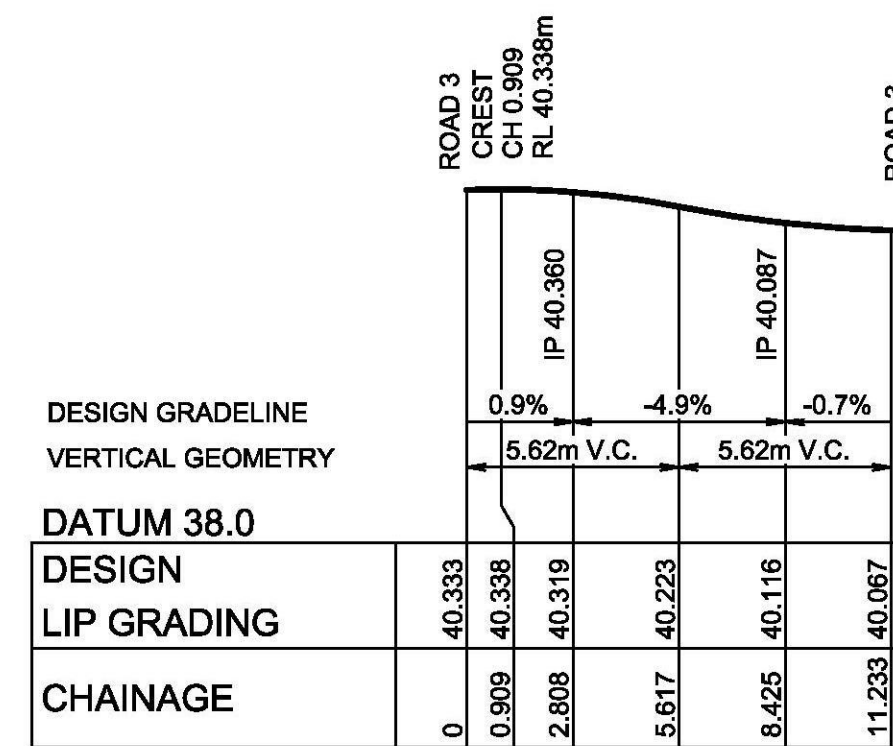
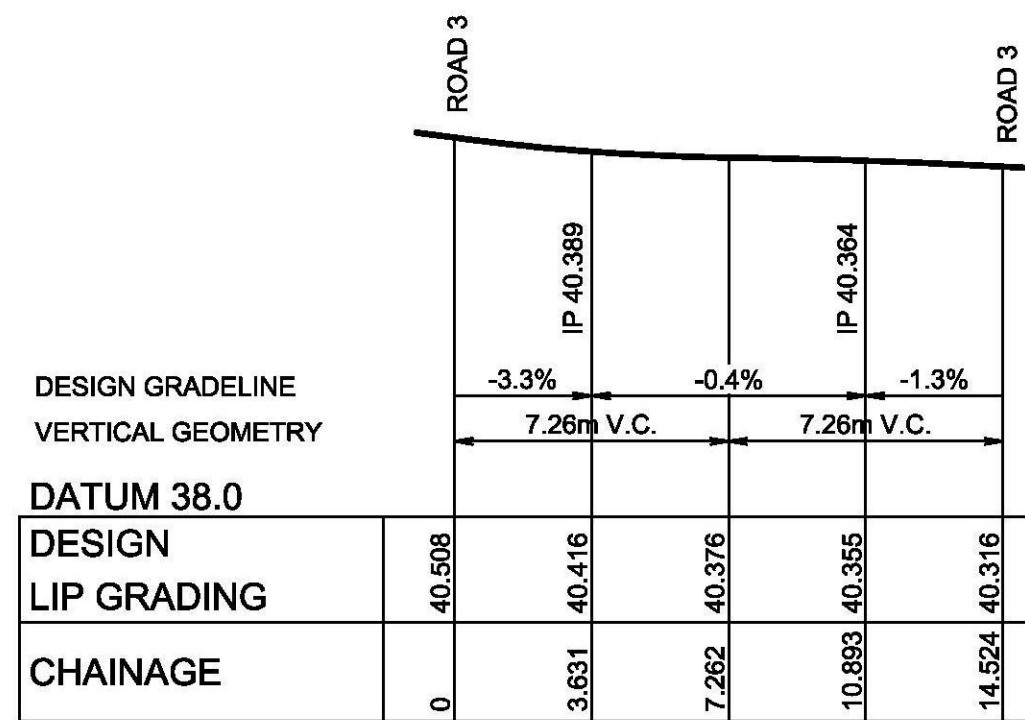
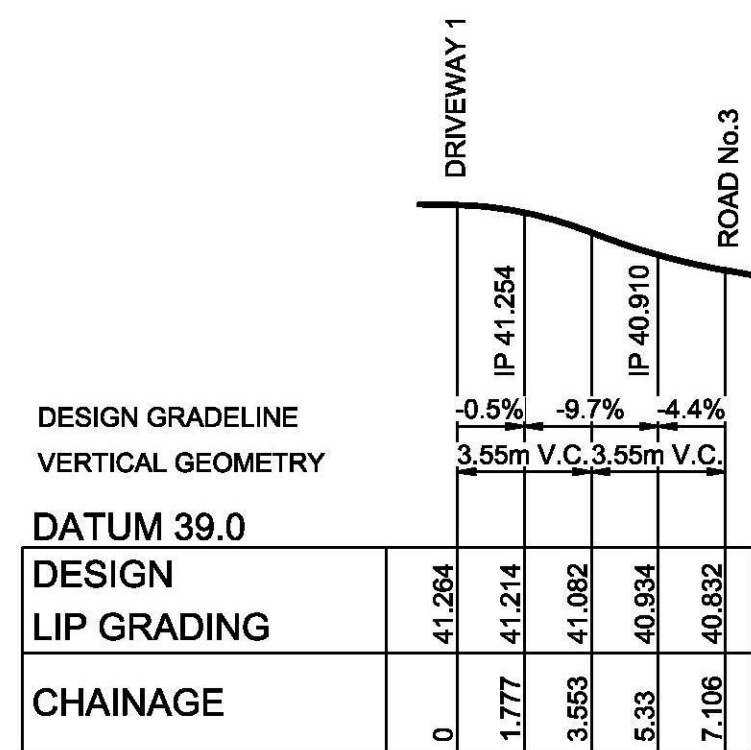
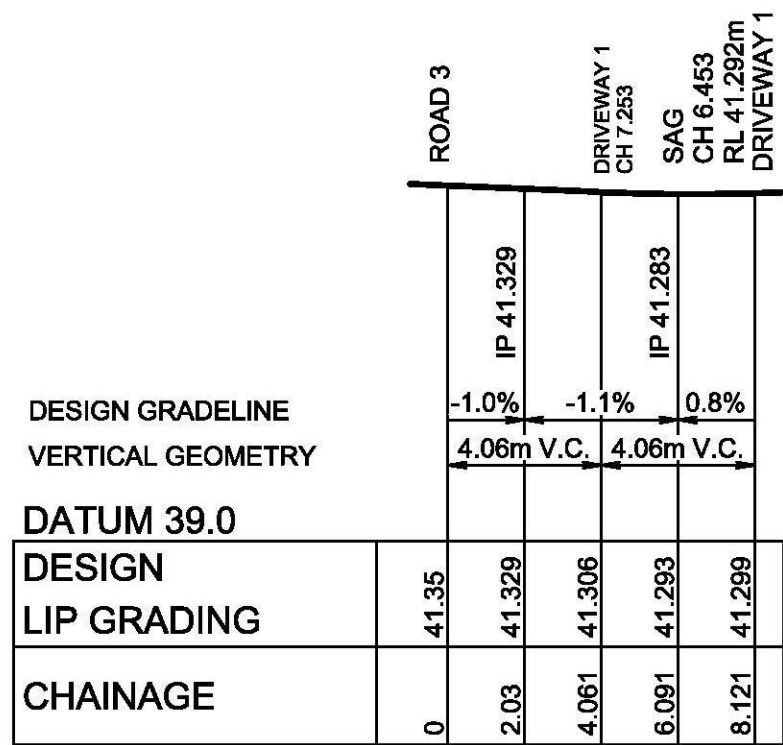


KR 10					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289048.25	6265593.31	116°55'01.44"		
2.03	289050.26	6265597.2		-3.5	4.06
4.06	289052.08	6265598.59	52°26'38.36"		
6.09	289053.9	6265599.99		-3.5	4.06
8.12	289053.34	6265602.22	345°58'15.27"		

KR 11					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289059.13	6265597.42	203°17'11.38"		
3.55	289057.54	6265593.71		-6	7.11
7.11	289060.37	6265590.83	135°25'28.70"		

KR 16					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289066.25	6265584.87	135°25'30.14"		
7.26	289072.48	6265578.54		-10	14.52
14.52	289079.5	6265583.99	52°12'27.79"		

KR 17					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289082.77	6265578.23	225°25'30.00"		
5.62	289077.95	6265573.48		-8	11.23
11.23	289081.83	6265567.94	144°58'23.21"		



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AZIMUTH:
DATUM:
ORIGIN:

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JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
KERB RETURNS
SHEET 1 OF 4

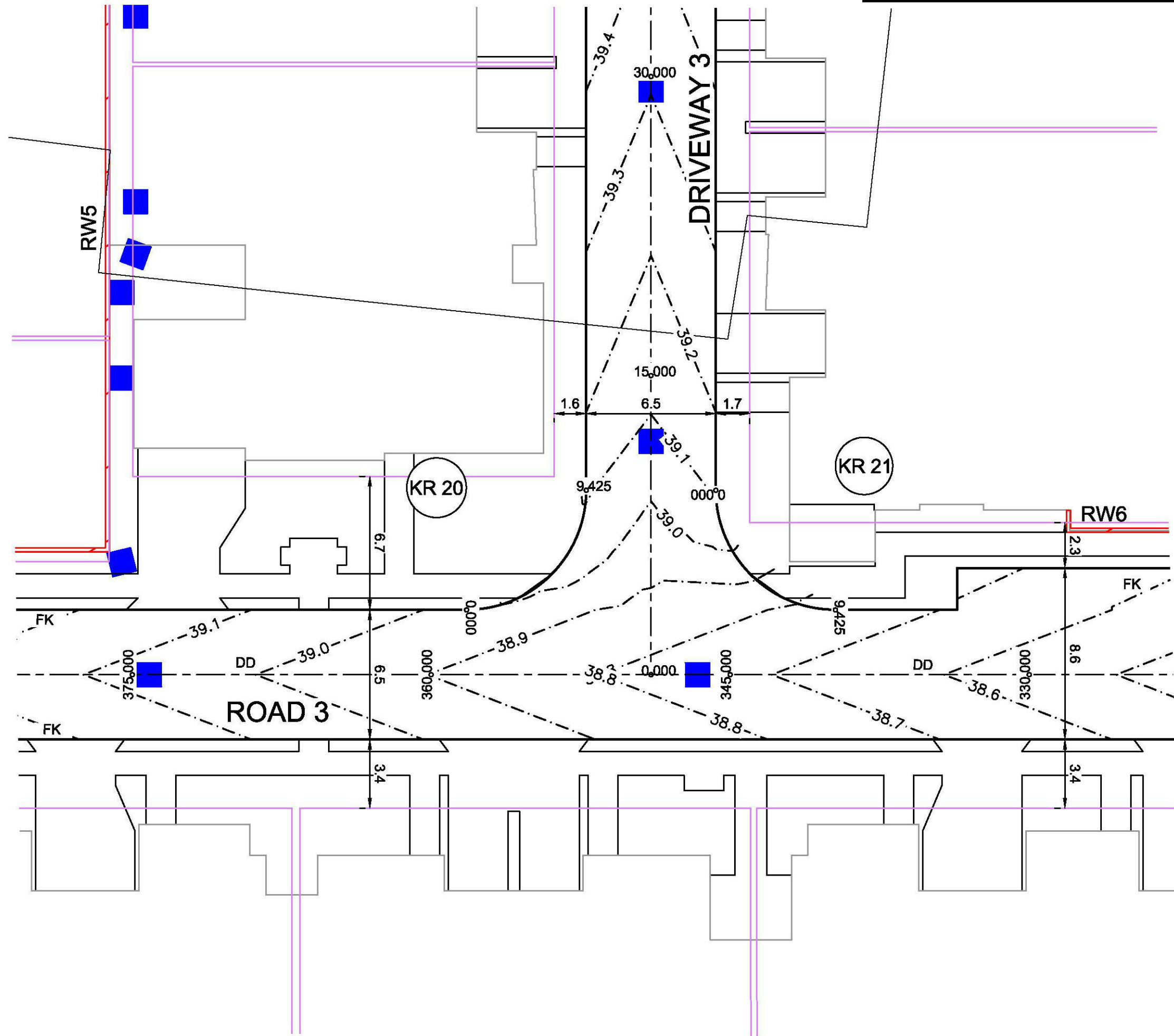
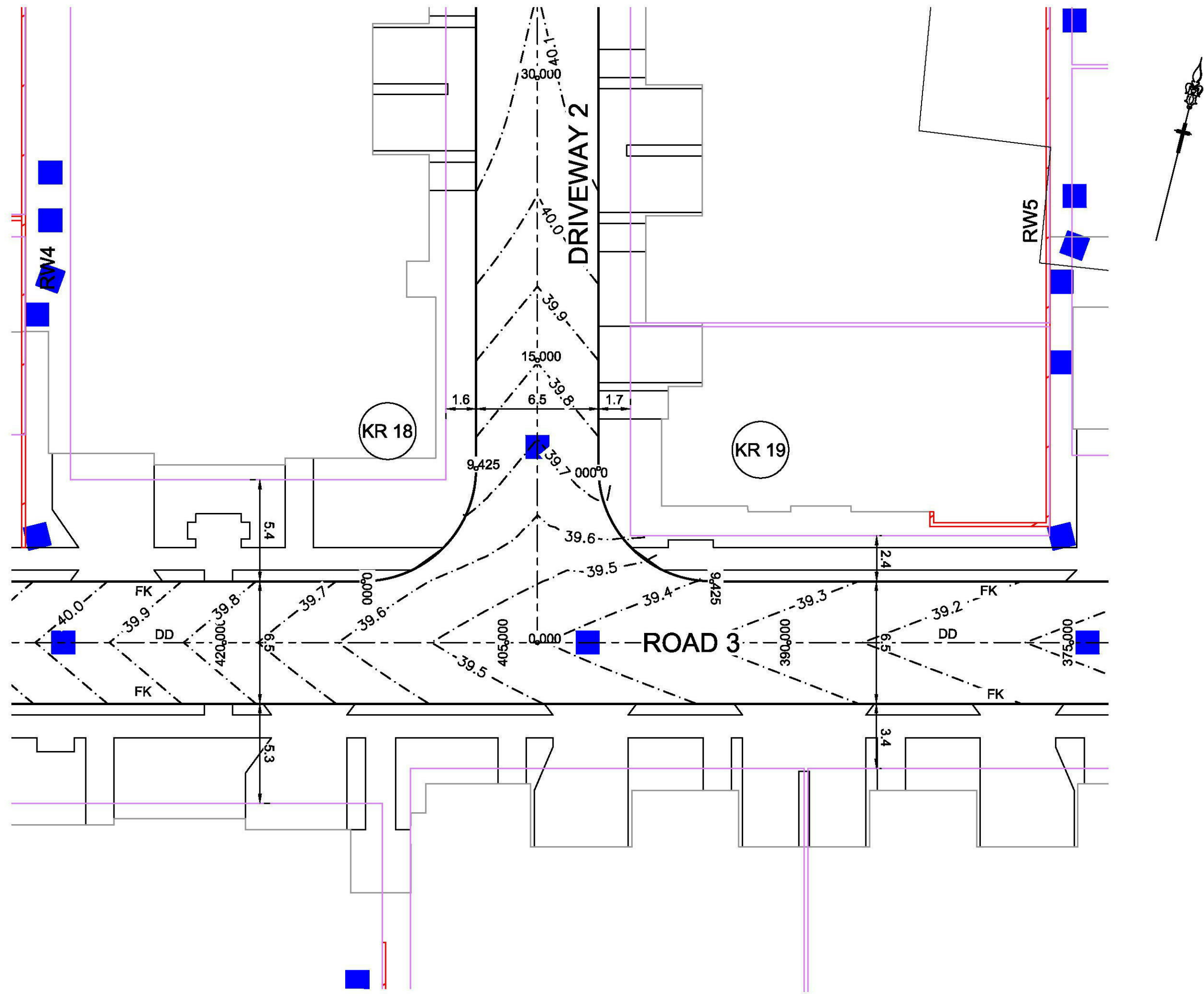
PLAN No:
11048702/CC116 A

FILE No: 11048702CC116

SHEET SIZE: A1 ORIGINAL

Plotdate: 22 May, 2019 4:48:43 PM File Name: J:\110487 - Jordan Springs Retirement Living\02 - Development Application Stage\CD\CC117.dwg

DESIGN LEVELS AND SETOUT
ARE TO LIP OF GUTTER

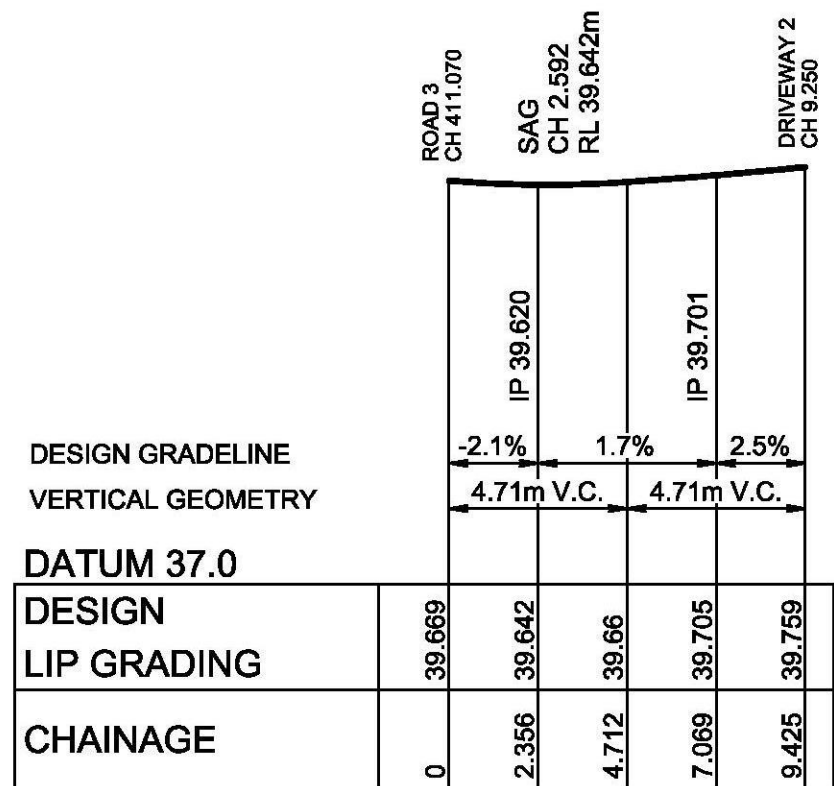


KR 18					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289105.83	6265591.83	75°58'15.00"		
4.71	289111.65	6265593.29		-6	9.42
9.42	289110.19	6265599.11	345°58'15.00"		

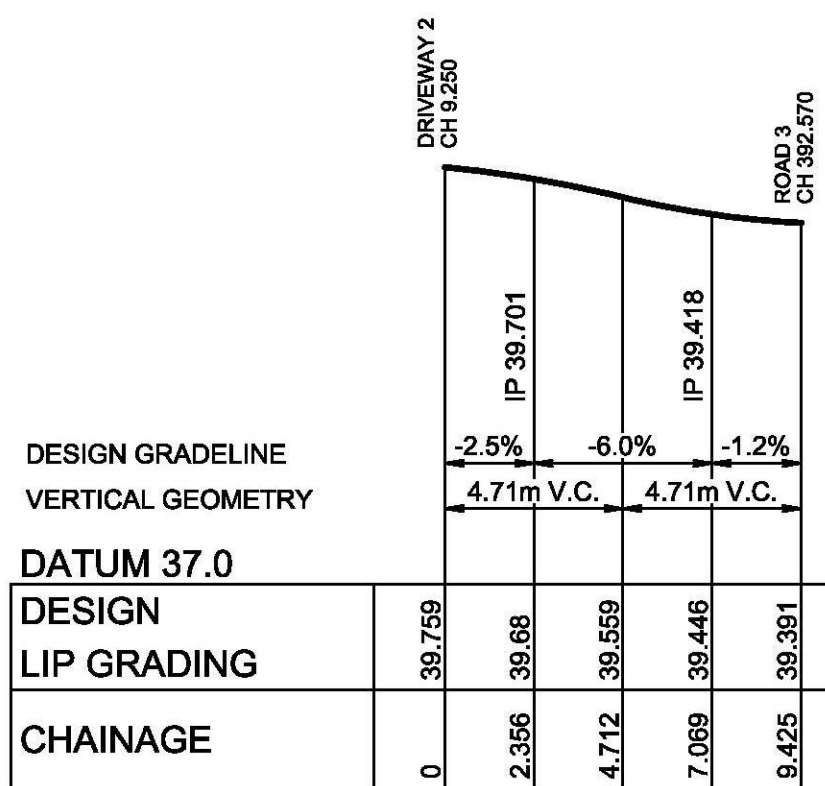
KR 19					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289116.5	6265600.68	165°58'15.00"		
4.71	289117.95	6265594.86		-6	9.42
9.42	289123.77	6265596.32	75°58'15.00"		

KR 20					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289158.6	6265605.02	75°58'15.00"		
4.71	289164.42	6265606.47		-6	9.42
9.42	289162.97	6265612.29	345°58'15.00"		

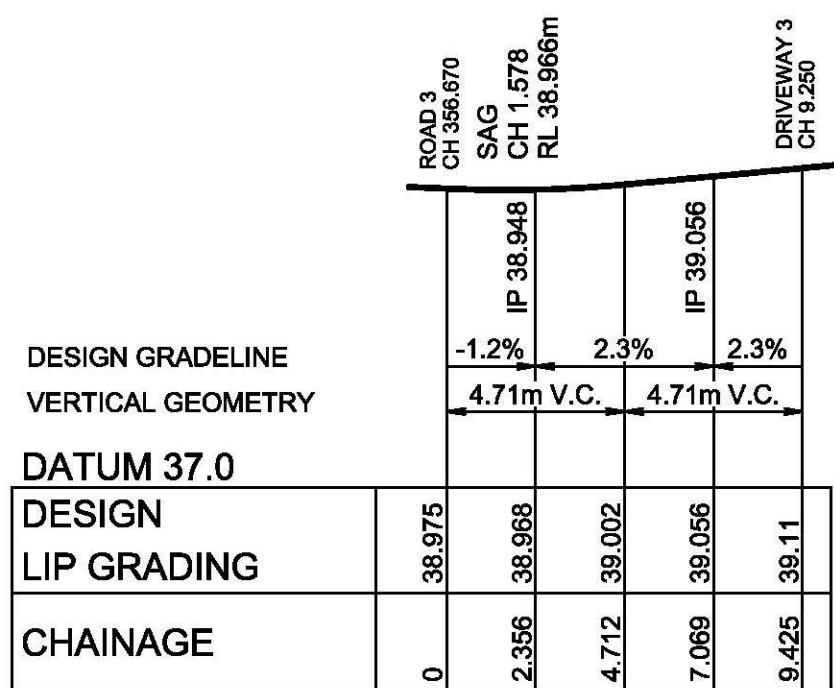
KR 21					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289169.28	6265613.87	165°58'15.00"		
4.71	289170.73	6265608.05		-6	9.42
9.42	289176.55	6265609.5	75°58'15.00"		



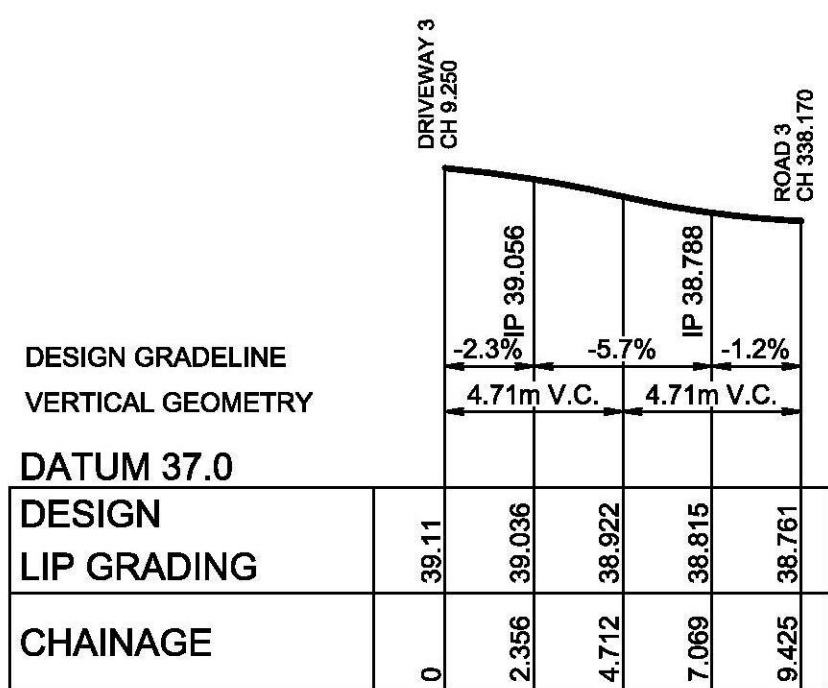
KR 18
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



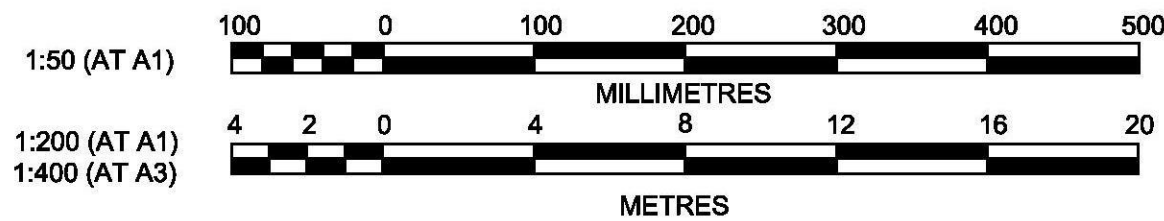
KR 19
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 20
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KR 21
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



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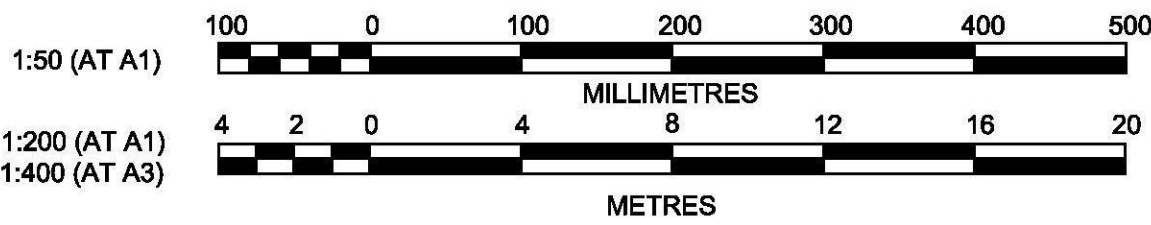
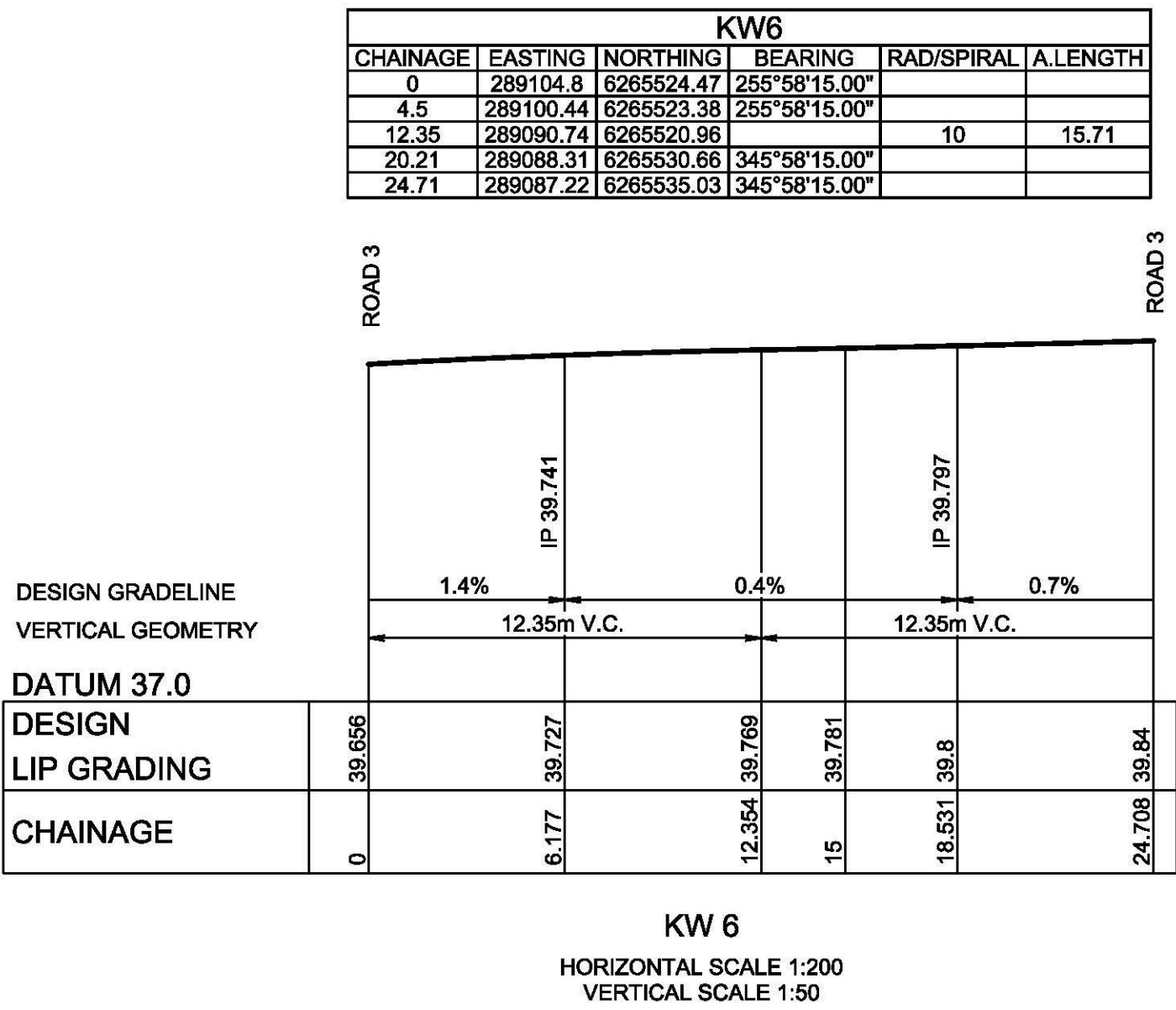
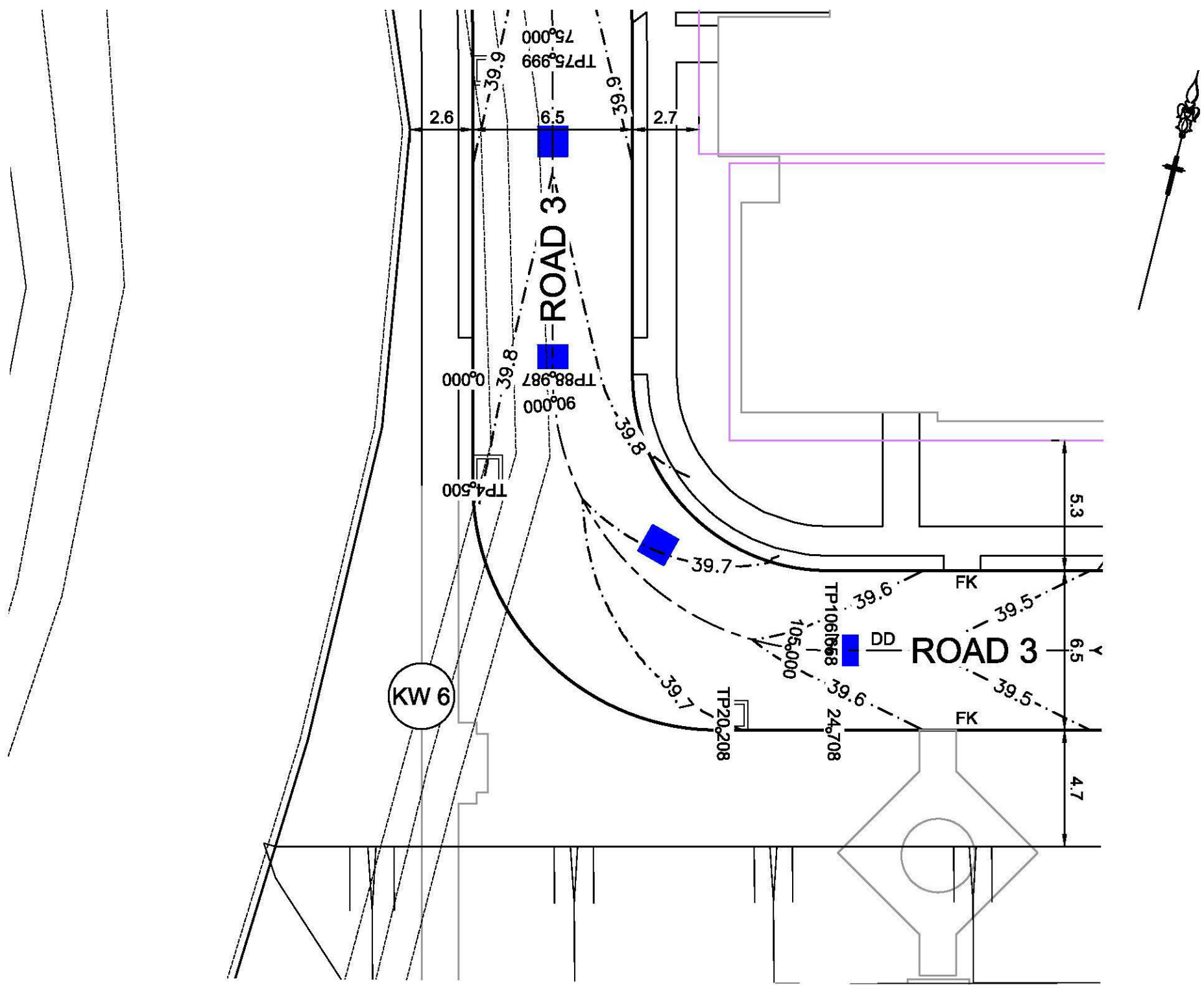
JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
KERB RETURNS
SHEET 2 OF 4

PLAN No:
11048702/CC117 **A**

FILE No: 11048702CC117

SHEET SIZE: A1 ORIGINAL

DESIGN LEVELS AND SETOUT
ARE TO LIP OF GUTTER



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JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
KERB RETURNS
SHEET 3 OF 4

PLAN No:
11048702/CC118 **A**
FILE No: 11048702CC118
SHEET SIZE: A1 ORIGINAL

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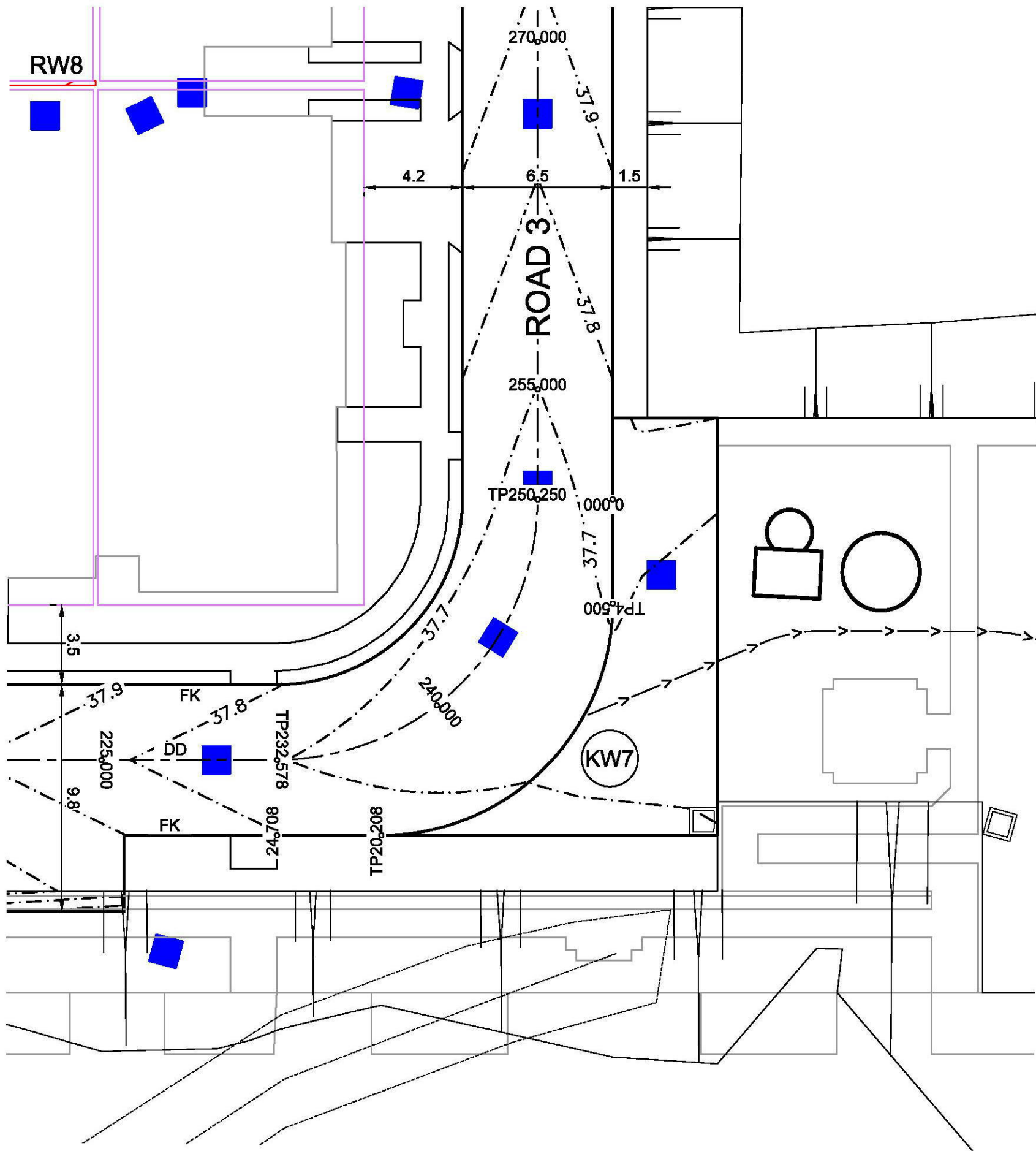
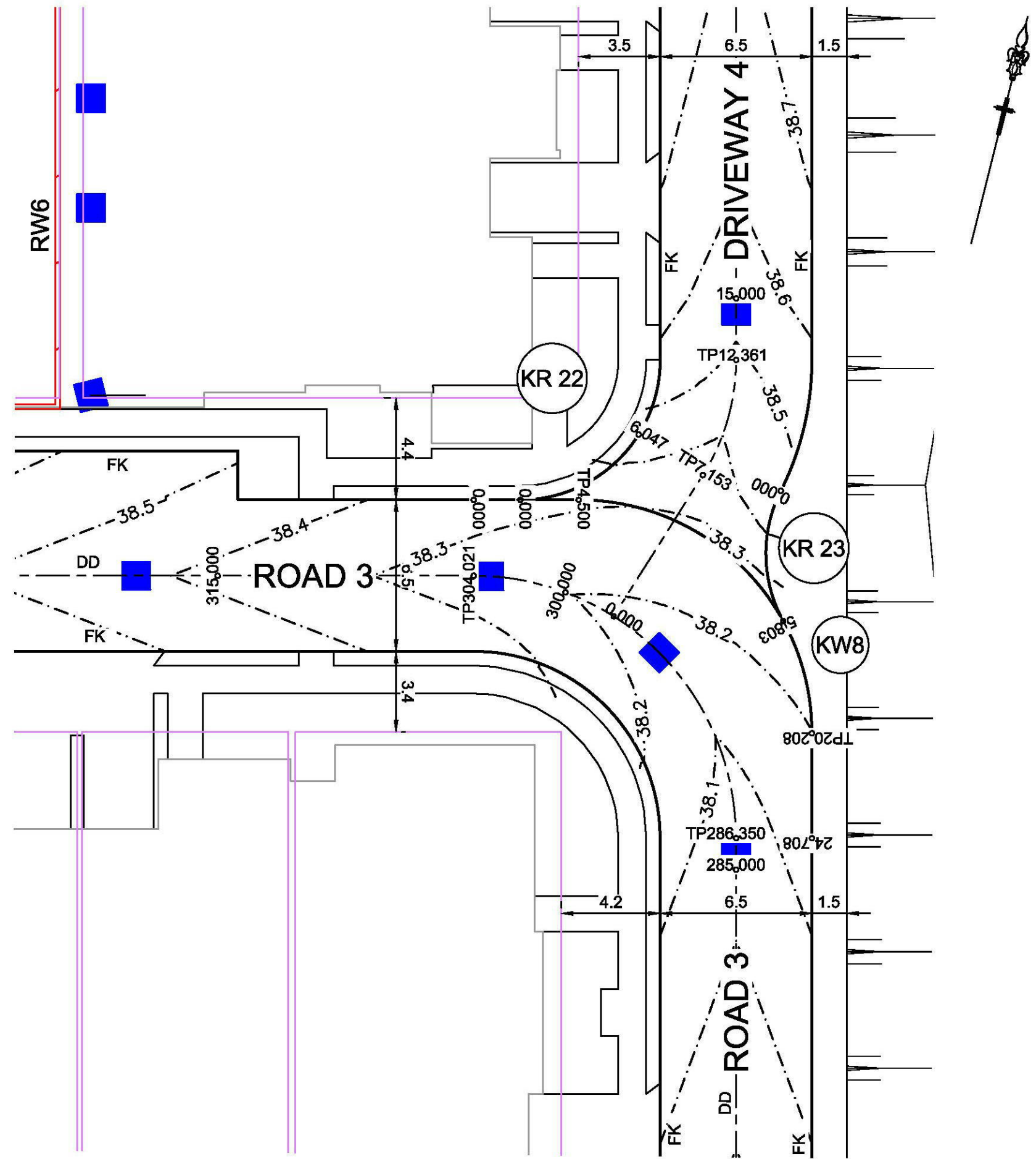
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DATUM:

ORIGIN:

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DESIGN LEVELS AND SETOUT
ARE TO LIP OF GUTTER

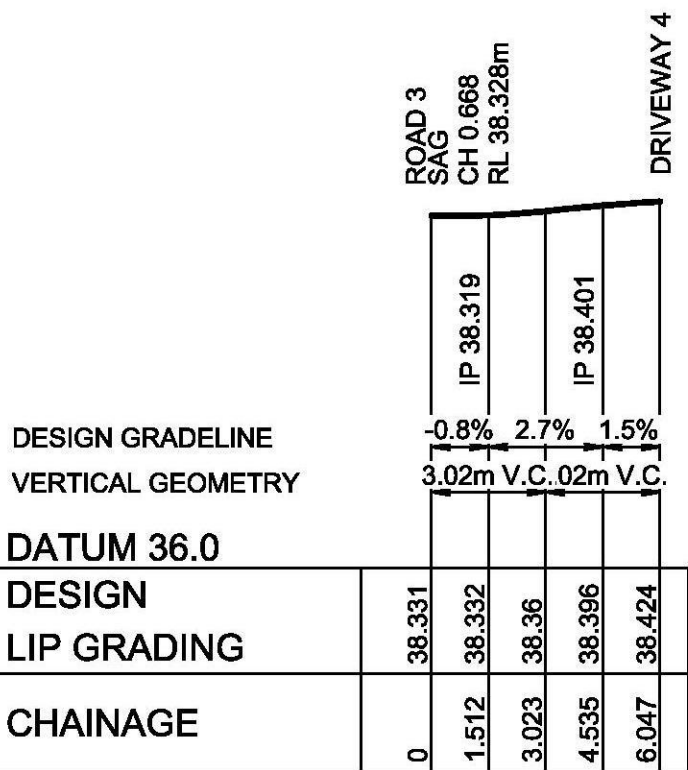


KR 22					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289213.13	6265618.64	75°58'15.00"		
3.02	289216.34	6265619.44		-6	6.05
6.05	289217.37	6265622.59	18°13'41.44"		

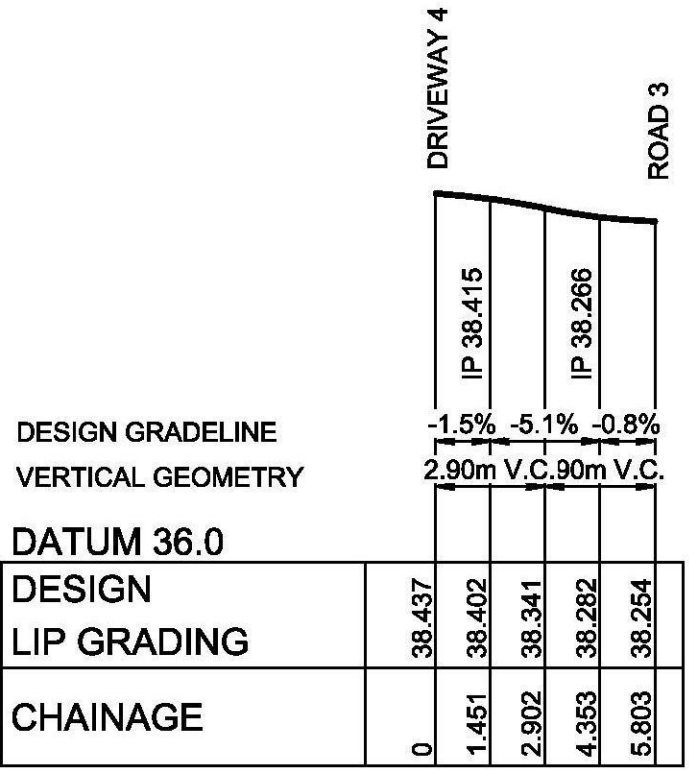
KR 23					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289223.87	6265621.72	192°39'18.42"		
2.9	289223.18	6265618.65		-6	5.8
5.8	289225.32	6265616.34	137°14'09.23"		

KW 7					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289237.52	6265572.58	165°58'15.00"		
4.5	289238.61	6265568.22	165°58'15.00"		
5.72	289238.91	6265567.02		10	2.45
6.95	289238.91	6265565.79	180°00'00.00"		
13.58	289238.91	6265567.98		10	13.26
20.21	289231.33	6265556.09	255°58'15.00"		
24.71	289226.97	6265555	255°58'15.00"		

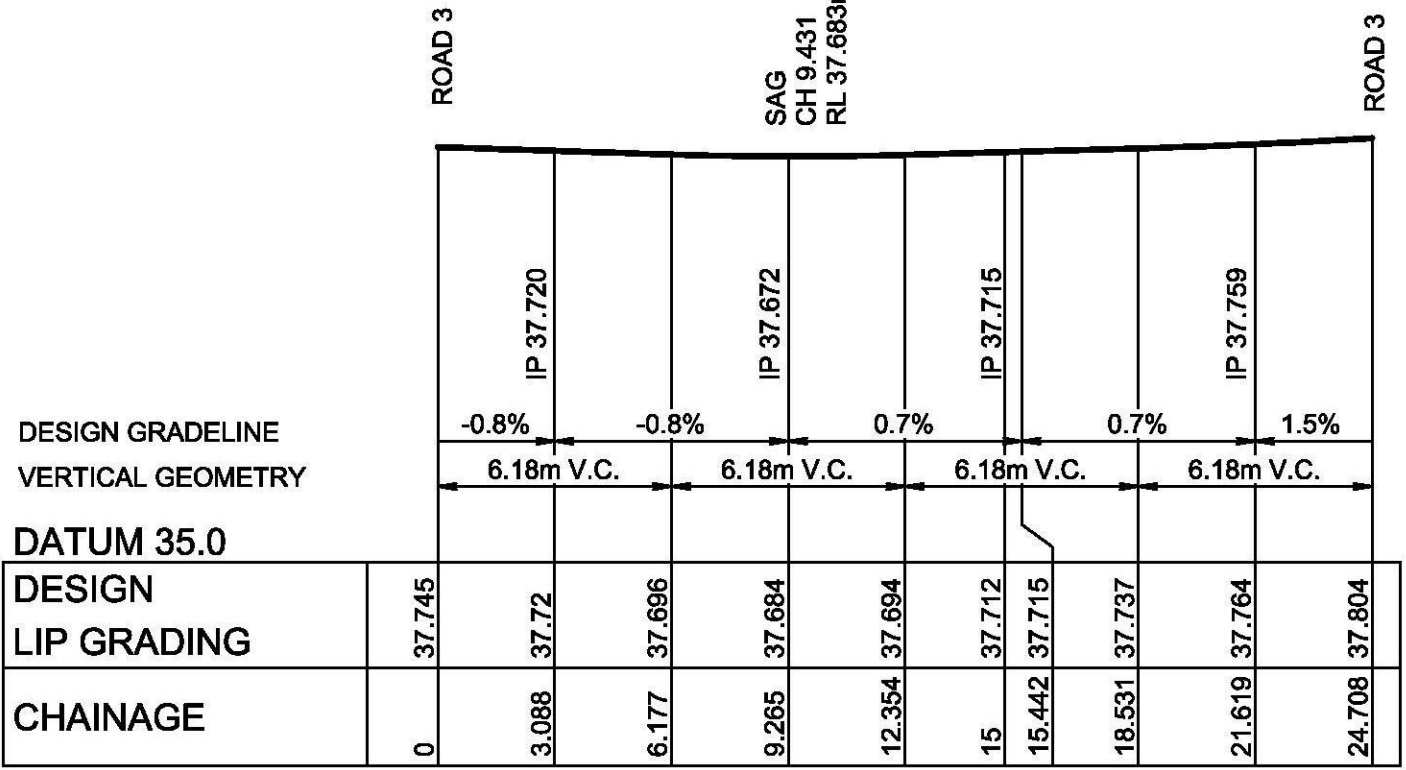
KW 8					
CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH
0	289211.19	6265618.16	75°58'15.00"		
4.5	289215.55	6265619.25	75°58'15.00"		
12.35	289225.25	6265621.67		10	15.71
20.21	289227.68	6265611.97	165°58'15.00"		
24.71	289228.77	6265607.61	165°58'15.00"		



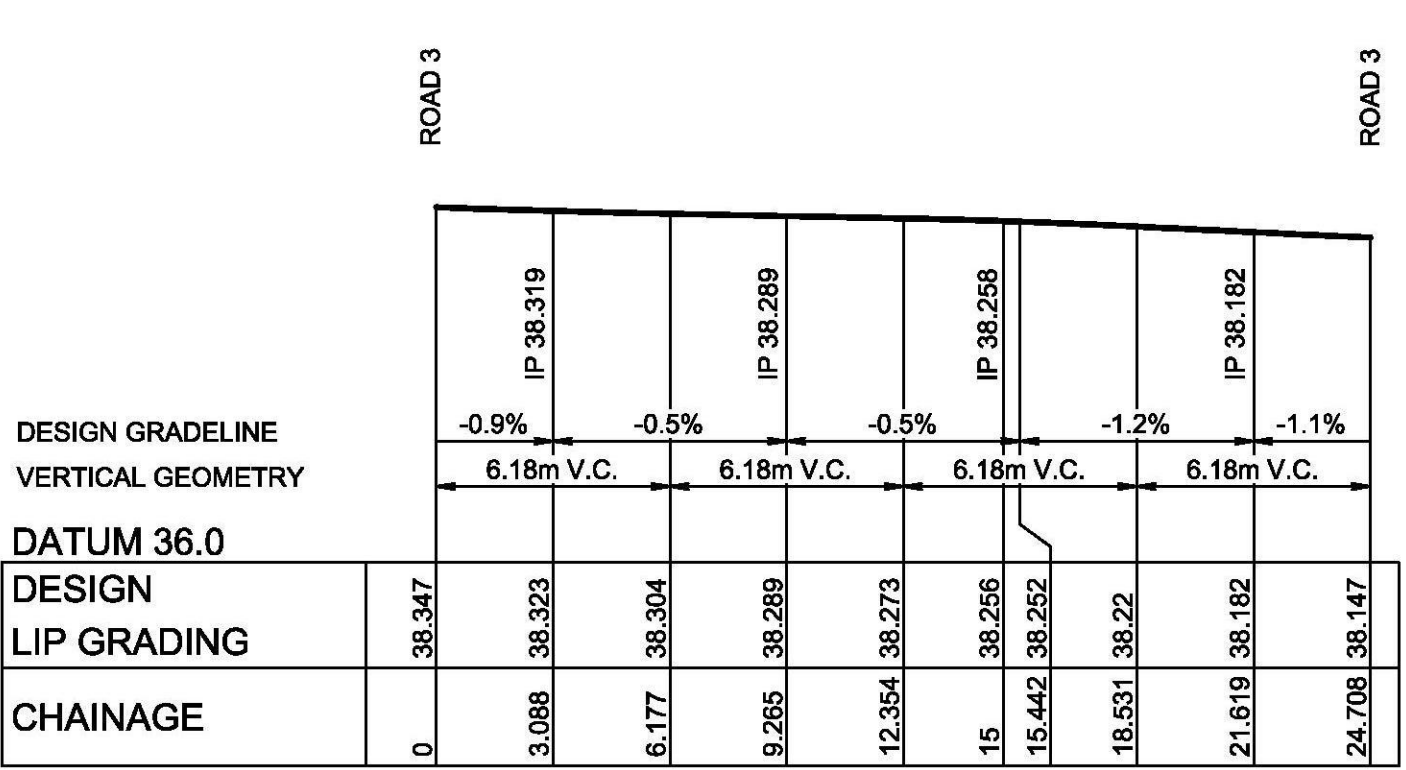
KR 22
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



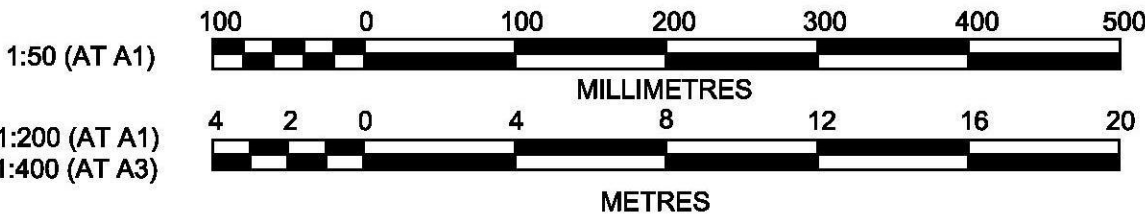
KR 23
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KW 7
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



KW 8
HORIZONTAL SCALE 1:200
VERTICAL SCALE 1:50



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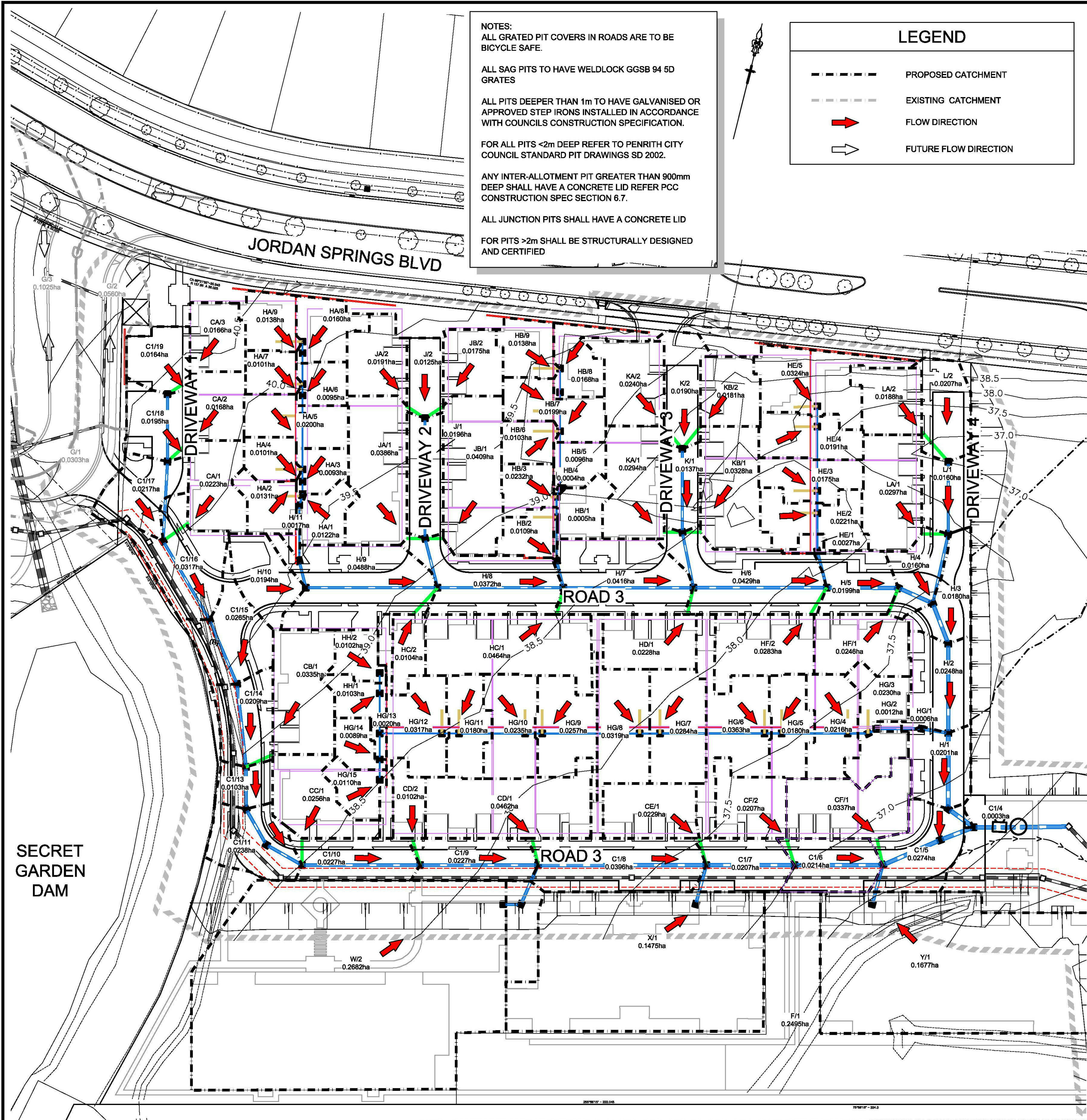
JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
KERB RETURNS
SHEET 4 OF 4

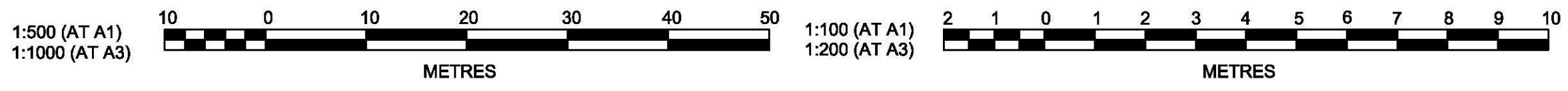
PLAN No:
11048702/CC119 **A**
FILE No: 11048702CC119
SHEET SIZE: A1 ORIGINAL

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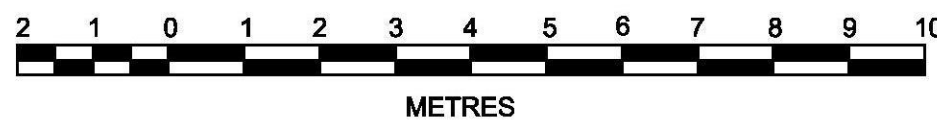
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JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
DRAINAGE LONGITUDINAL SECTION
SHEET 1 OF 5

PLAN No: 11048702/CC121 A

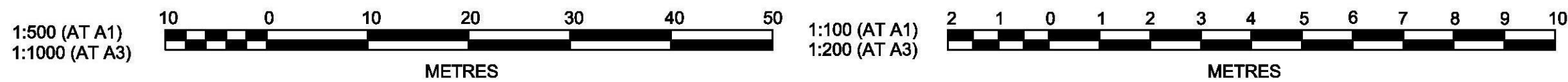
FILE No: 11048702CC121

SHEET SIZE: A1 ORIGINAL



PLAN No: 11048702/CC122		A
FILE No: 11048702CC122		
SHEET SIZE:		A1 ORIGINAL

ORIGIN:



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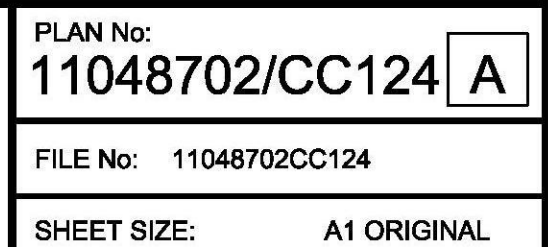
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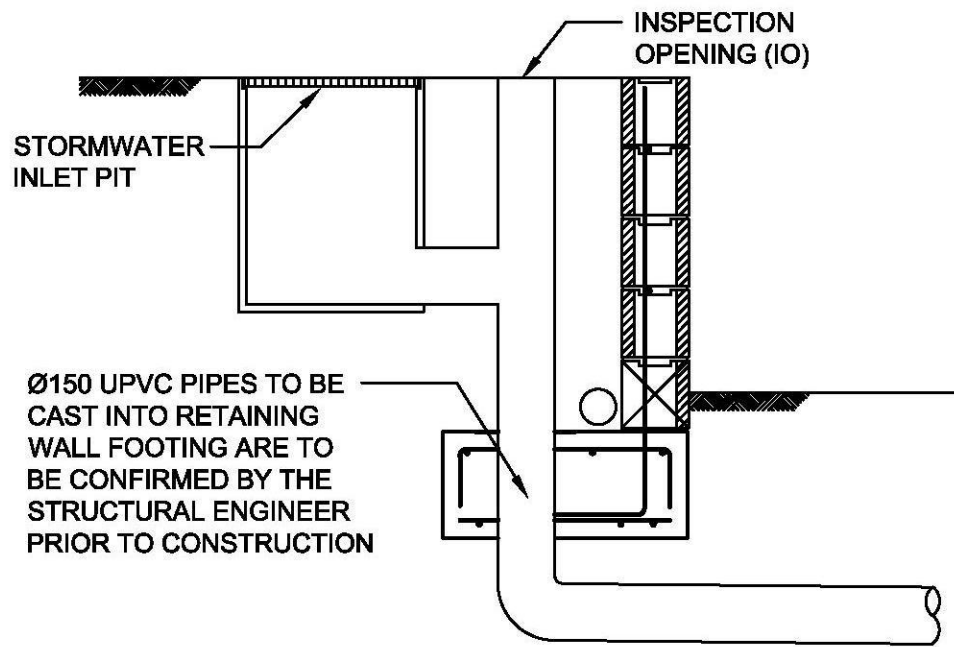
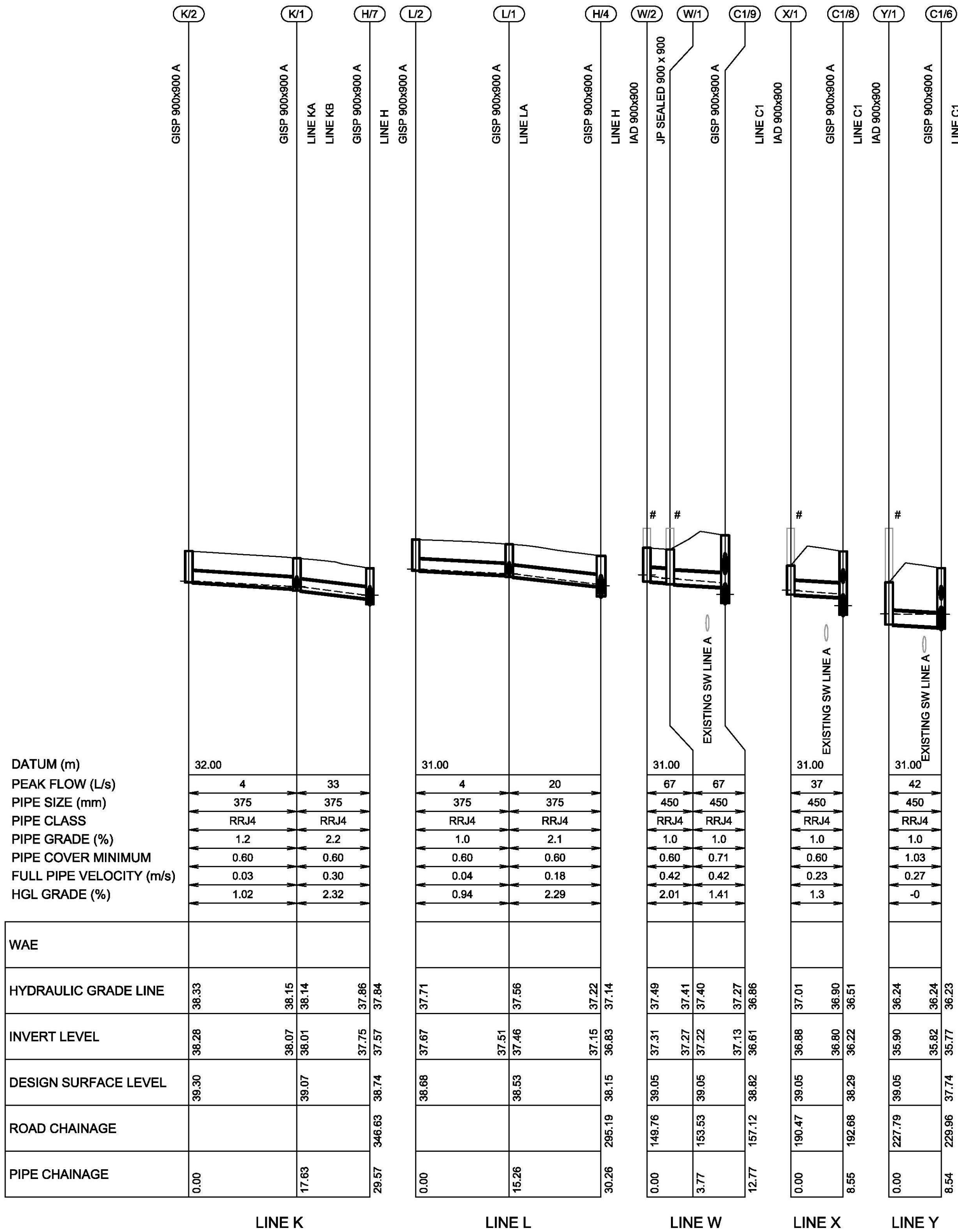
PLAN No: 11048702/CC123		A
FILE No: 11048702CC123		
SHEET SIZE:		A1 ORIGINAL



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ORIGIN:

Plotted: 22 May, 2019 4:51:22 PM File Name: J:\110487 - Jordan Springs Retirement Living\02 - Development Application Stage\CD\CC\STAGE 2\11048702CC125.dwg

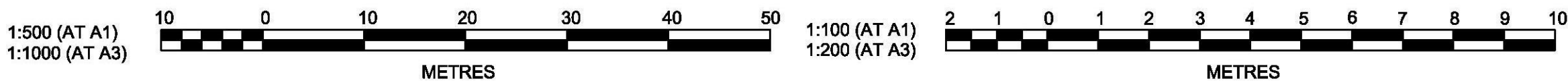


TYPICAL DROP UNDER RETAINING WALL DETAIL

SUBJECT TO COUNCIL APPROVAL

NTS

FINAL PIT LEVEL IN FUTURE DA. PITS TO BE BUILT TO PROPOSED DESIGN LEVEL. THEN TEMPORARY STEEL LID BOLTED DOWN TO SEAL PIT UNTIL THE FINAL PIT LEVEL IS CONSTRUCTED IN FUTURE DA.



A	ISSUED FOR CONSTRUCTION CERTIFICATE	MMC	NM	DJH	MS
	AMENDMENT	DES	DRN	CKD	APR
					DATE

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JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
DRAINAGE LONGITUDINAL SECTION
SHEET 5 OF 5

PLAN No:	11048702/CC125	A
FILE No:	11048702CC125	
SHEET SIZE:	A1 ORIGINAL	

Plotted: 22 May , 2019 4:51:30 PM File Name: J:\110487 - Jordan Springs Retirement Living\02 - Development Application Stage\CD\CC\STAGE 2\11048702CC126.dwg

DESIGN STORM 1:5yr ARI HYDROLOGIC RESULTS																													
PIT	PIT	CATCHMENT	IMPERVIOUS	RUNOFF	IMPERVIOUS	IMPERVIOUS	PERVIOUS	PERVIOUS	FULL AREA	FULL AREA	FULL AREA	PARTIAL AREA	PARTIAL AREA	PARTIAL AREA	TOTAL	DIRECT	APPROACH	FLOODED	FLOODED	FLOODED	ROAD	ROAD	CHOKE	INLET	BYPASS	BYPASS	COMMENTS		
NAME	TYPE	AREA	PERCENTAGE	C	TIME Tc	INTENSITY I	TIME Tc	INTENSITY I	TIME Tc	INTENSITY I	CATCHMENT FLOW Qc	TIME Tc	INTENSITY I	CATCHMENT FLOW Qc	CATCHMENT FLOW Qc	FLOW Qd	FLOW Qa	DEPTH d	WIDTH w	(vxd)	GRADE	XFALL	FACTOR	FLOW Qg	FLOW Qb	PIT			
(-)	(-)	(ha)	(%)	(-)	(min)	(mm/hr)	(min)	(mm/hr)	(min)	(mm/hr)	(L/s)	(min)	(mm/hr)	(L/s)	(L/s)	(L/s)	(L/s)	(m)	(m)	(sq.m/s)	(%)	(%)	(-)	(L/s)	(L/s)	(-)			
C1/19	GISP 900x900 A	0.016	95	0.82	6	117.8	6	117.8	6	117.8	4	6	117.8	4	4	0	4	0.02	1.53	0.01	0.7	3	1	3	1	C1/18			
C1/18	GISP 900x900 A	0.019	95	0.82	6	117.8	6	117.8	6	117.8	5	6	117.8	5	5	0	6	0.02	1.96	0.01	0.8	3	1	5	2	C1/17			
C1/17	GISP 900x900 A	0.022	95	0.82	6	117.8	6	117.8	6	117.8	6	6	117.8	6	6	0	7	0.02	1.34	0.01	4.6		1	5	2	C1/16			
C1/16	GISP 900x900 A	0.032	90	0.794	6	117.8	6	117.8	6	117.8	8	6	117.8	8	8	0	11	0.03	1.71	0.01	1.9		1	7	4	C1/15			
C1/15	GISP 900x900 A	0.027	90	0.794	6	117.8	6	117.8	6	117.8	7	6	117.8	7	7	0	10	0.03	2.02	0.01	0.8		1	7	3	C1/14			
C1/14	GISP 900x900 A	0.021	95	0.82	6	117.8	6	117.8	6	117.8	6	6	117.8	6	6	0	9	0.03	1.91	0.01	0.7		1	6	3	C1/13			
C1/13	GISP 900x900 A	0.01	90	0.794	6	117.8	6	117.8	6	117.8	3	6	117.8	3	3	0	5	0.02	1.56	0.01	0.7		1	4	1	C1/11			
C1/12	JP SEALED 900 x 900	0	0						0	0	0	0	0	0	0	0	0				1.4			0	0				
C1/11	GISP 900x900 A	0.024	90	0.794	6	117.8	6	117.8	6	117.8	6	6	117.8	6	6	0	7	0.02	1.56	0.01	1.9		1	5	2	C1/10			
C1/10	GISP 900x900 A	0.023	95	0.82	6	117.8	6	117.8	6	117.8	6	6	117.8	6	6	0	8	0.02	1.62	0.01	1.5		1	6	3	C1/9			
C1/9	GISP 900x900 A	0.023	95	0.82	6	117.8	6	117.8	6	117.8	6	6	117.8	6	6	0	9	0.02	2	0.01	1.5		1	6	3	C1/8			
C1/8	GISP 900x900 A	0.04	95	0.82	6	117.8	6	117.8	6	117.8	11	6	117.8	11	11	0	13	0.03	1.93	0.01	1.5		1	9	5	C1/7			
C1/7	GISP 900x900 A	0.021	95	0.82	6	117.8	6	117.8	6	117.8	6	6	117.8	6	6	0	10	0.03	1.75	0.01	1.5		1	7	3	C1/6			
C1/6	GISP 900x900 A	0.021	95	0.82	6	117.8	6	117.8	6	117.8	6	6	117.8	6	6	0	9	0.03	1.67	0.01	1.5		1	6	3	C1/5			
C1/5	GSIP 900x900 SAG	0.027	90	0.794	6	117.8	6	117.8	6	117.8	7	6	117.8	7	7	0	12	0.02			0.3		1	12	0	LOST			
C1/4	JP GRATED 900 x 900	0	50	0.587	6	117.8	6	117.8	6	117.8	0	6	117.8	0	0	0	0				0.8	1.5	1	0	0	LOST			
C1/3	GPT	0	0						0	0	0	0	0	0	0	0	0				0.8			0	0				
C1/2	GPT	0	0						0	0	0	0	0	0	0	0	0							0	0				
C1/1	JP SEALED 900 x 900	0	0						0	0	0	0	0	0	0	0	0							0	0		EXISTING		
H/11	IAD 900x900	0.002	85	0.768	6	117.8	6	117.8	6	117.8	0	6	117.8	0	0	0	0				2.5	-2.5	1	0	0	H/10			
H/10	GISP 900x900 A	0.019	90	0.794	6	117.8	6	117.8	6	117.8	5	6	117.8	5	5	0	5	0.02	1.21	0.01	2.5		1	4	1	H/9			
H/9	GISP 900x900 A	0.049	90	0.794	6	117.8	6	117.8	6	117.8	13	6	117.8	13	13	0	16	0.02	2.11	0.01	1.3		1	10	6	H/8			
H/8	GISP 900x900 A	0.037	90	0.794	6	117.8	6	117.8	6	117.8	10	6	117.8	10	10	0	16	0.03	2.14	0.01	1.2		1	10	6	H/7			
H/7	GISP 900x900 A	0.042	90	0.794	6	117.8	6	117.8	6	117.8	11	6	117.8	11	11	0	18	0.02	2.48	0.01	1.2		1	11	7	H/6			
H/6	GISP 900x900 A	0.043	90	0.794	6	117.8	6	117.8	6	117.8	11	6	117.8	11	11	0	18	0.02	2.26	0.01	1.2		1	11	7	H/5			
H/5	GISP 900x900 A	0.02	90	0.794	6	117.8	6	117.8	6	117.8	5	6	117.8	5	5	0	12	0.03	1.95	0.01	1.2		1	8	4	H/4			
H/4	GISP 900x900 A	0.016	95	0.82	6	117.8	6	117.8	6	117.8	4	6	117.8	4	4	0	10	0.01	1.94	0	1.6		1	7	3	H/3			
H/3	GISP 900x900 A	0.018	95	0.82	6	117.8	6	117.8	6	117.8	5	6	117.8	5	5	0	8	0.03	1.68	0.01	1.1		1	6	2	H/2			
H/2	GISP 900x900 A	0.025	95	0.82	6	117.8	6	117.8	6	117.8	7	6	117.8	7	7	0	9	0.03	1.76	0.01	1.1		1	6	3	H/1			
H/1	GISP 900x900 A	0.02	95	0.82	6	117.8	6	117.8	6	117.8	5	6	117.8	5	5	0	8	0.03	1.78	0.01	1		1	6	2	C1/5			
HA/9	IAD 600x600	0.014	85	0.768	6	117.8	6	117.8	6	117.8	3	6	117.8	3	3	0	3							3	0				
HA/8	IAD 600x600	0.016	85	0.768	6	117.8	6	117.8	6	117.8	4	6	117.8	4	4	0	4							4	0				
HA/7	IAD 600x600	0.01	85	0.768	6	117.8	6	117.8	6	117.8	3	6	117.8	3	3	0	3							3	0				
HA/6	IAD 600x900	0.01	85	0.768	6	117.8	6	117.8	6	117.8	2	6	117.8	2	2	0	2							2	0				
HA/5	IAD 600x900	0.02	85	0.768	6	117.8	6	117.8	6	117.8	5	6	117.8	5	5	0	5							5	0				
HA/4	IAD 600x900	0.01	85	0.768	6	117.8	6	117.8	6	117.8	3	6	117.8	3	3	0	3							3	0				
HA/3	IAD 900x900	0.009	85	0.768	6	117.8	6	117.8	6	117.8	2	6	117.8	2	2	0	2							2	0				
HA/2	IAD 900x900	0.013	85	0.768	6	117.8	6	117.8	6	117.8	3	6	117.8	3	3	0	3							3	0				
HA/1	IAD 900x900	0.012	85	0.768	6	117.8	6	117.8	6	117.8	3	6	117.8	3	3	0	3							3	0				
HB/9	IAD 600x600	0.014	85	0.768	6	117.8	6	117.8	6	117.8	3	6	117.8	3	3	0	3							3	0				
HB/8	IAD 600x600	0.017	85	0.768	6	117.8	6	117.8	6	117.8	4	6	117.8	4	4	0	4							4	0				
HB/7	IAD 600x600	0.02	85	0.768	6	117.8	6	117.8	6	117.8	5	6	117.8	5	5	0	5							5	0				
HB/6	IAD 600x900	0.01	85	0.768	6	117.8	6	117.8</																					

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DESIGN STORM 1:5yr ARI HYDRAULIC RESULTS																																									
PIPE NAME (-)	PIPE TYPE (-)	PIPE DIAMETER (mm)	PIPE LENGTH (m)	PIPE SLOPE (%)	PIPE AREA Af (sq.m)	PIPE TIME Tc (min)	FULL AREA INTENSITY I (mm/hr)	FULL AREA SUM CA (ha)	FULL AREA FLOW Qc (L/s)	PART-AREA TIME Tc (min)	PART-AREA INTENSITY I (mm/hr)	PART-AREA SUM CA (ha)	PART-AREA FLOW Qc (L/s)	DIRECT PIPE FLOW Qp (L/s)	PEAK FLOW Qrat (L/s)	NET BYPASS FLOW Qb (L/s)	PIPE FLOW Q (L/s)	CAP. Qcap (L/s)	Q/Qcap (-)	FULL PIPE VELOCITY (m/s)	NORM. DEPTH VELOCITY (m/s)	CRIT. DEPTH VELOCITY (m/s)	U/S PIT GRATE RL (m)	PIPE U/S IL (m)	PIPE D/S IL (m)	PIPE D/S DROP (m)	U/S PIT Ku (-)	U/S PIT Kw (-)	PIPE V HEAD (m)	PIT LOSS (Ku.V'head) (m)	WSE LOSS (Kw.V'head) (m)	TOTAL PIPE LOSS (m)	U/S PIT HGL (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MIN. COVER (m)	U/S FREEBOARD (m)	COMMENTS		
C1/19 to C1/18	RRJ4	375	14.24	1	0.11	6	117.8	0.013	4.4	6	117.8	0.01	4.4	0	4.4	-1	3.4	190.4	0.02	0.03	0.66	0.52	41.32	40.305	40.162	0.05	4.5			0	0	0	0.14	40.346	40.346	40.197	1.05	0.6	0.97		
C1/18 to C1/17	RRJ4	375	16.81	2.56	0.11	6.36	115.3	0.029	9.4	6	117.8	0.03	9.4	0	9.4	-1.6	7.8	303.9	0.03	0.07	1.18	0.65	41.206	40.112	39.682	0.116	2.81			0	0	0	0	4	40.175	40.174	39.723	2.68	0.61	1.03	
C1/17 to C1/16	RRJ4	375	19.33	2.88	0.11	6.6	113.7	0.09	28.5	6.28	115.8	0.09	28.6	0	28.6	-2.3	26.2	322.3	0.08	0.24	1.76	0.91	40.662	39.567	39.011	0.051	1.77	2	0	0.01	0.01	0.01	0.53	39.689	39.683	39.096	3.04	0.6	0.97		
C1/16 to C1/15	RRJ4	375	14.75	1	0.11	6.78	112.5	0.115	36	6.42	114.9	0.11	36.3	0	36.3	-3.6	32.7	190.4	0.17	0.3	1.29	0.96	40.069	38.961	38.813	0.051	1.16			0	0.01	0.01	0.14	39.096	39.091	38.918	1.17	0.69	0.97		
C1/15 to C1/14	RRJ4	450	17.62	1	0.16	6.97	111.3	0.136	42.2	6.61	113.6	0.13	42.6	0	42.6	-3.2	39.3	309.7	0.13	0.25	1.33	0.98	39.932	38.763	38.586	0.05	0.66			0	0	0	0.17	38.9	38.898	38.698	1.14	0.68	1.03		
C1/14 to C1/13	RRJ4	450	8.89	1	0.16	7.19	110	0.179	54.8	6.7	113	0.18	55.4	0	55.4	-2.6	52.8	309.1	0.17	0.33	1.45	1.06	39.808	38.536	38.447	0.051	0.81		0.01	0	0	0	0.07	38.698	38.694	38.573	1.36	0.78	1.11		
C1/13 to C1/12	RRJ4	450	8.69	1	0.16	7.29	109.4	0.187	57	6.81	112.3	0.18	57.7	0	57.7	-1.2	56.4	309.1	0.18	0.35	1.48	1.09	39.746	38.397	38.31	0.051	0.72		0.01	0	0	0	0.07	38.565	38.56	38.44	1.38	0.86	1.18		
C1/12 to C1/11	RRJ4	450	8.69	1	0.16	7.39	108.8	0.187	56.7	6.9	111.7	0.18	57.3	0	57.3	-1.2	56.1	309.2	0.18	0.35	1.48	1.08	39.707	38.26	38.173	0.051	0.39		0.01	0	0	0	0.07	38.425	38.423	38.303	1.38	0.9	1.28		
C1/11 to C1/10	RRJ4	525	24.93	1	0.22	7.49	108.2	0.226	68	6.89	111.8	0.22	68.9	0	68.9	-2.3	66.7	466.8	0.14	0.31	1.53	1.1	39.549	38.123	37.873	0.031	0.82			0	0	0	0.24	38.297	38.293	38.022	1.09	0.75	1.25		
C1/10 to C1/9	RRJ4	525	24.93	1	0.22	7.76	106.7	0.245	72.5	7.16	110.2	0.24	73.6	0	73.6	-2.6	71	466.8	0.15	0.33	1.56	1.12	39.183	37.843	37.593	0.987	0.58		0.01	0	0	0	0.23	38.022	38.018	37.731	1.15	0.67	1.16		
C1/9 to C1/8	RRJ4	600	35.57	1	0.28	8.03	105.3	0.513	150	6.84	112.2	0.5	154.8	0	154.8	-2.7	152.1	665.5	0.23	0.54	1.91	1.36	38.816	36.606	36.25	0.031	1.9	2.28	0.01	0.03	0.03	0.35	36.89	36.857	36.519	0.95	1.41	1.93			
C1/8 to C1/7	RRJ4	600	18.64	1	0.28	8.34	103.7	0.676	194.7	6.85	112.1	0.65	202.6	0	202.6	-4.8	197.8	665.5	0.3	0.7	2.05	1.48	38.293	36.22	36.034	0.031	0.47		0.02	0.01	0.01	0.18	36.519	36.508	36.305	1.09	1.35	1.77			
C1/7 to C1/6	RRJ4	600	18.64	1	0.28	8.49	103	0.693	198.2	7	111.1	0.67	206.1	0	206.1	-3.4	202.7	665.5	0.3	0.72	2.07	1.49	38.019	36.004	35.818	0.051	0.36		0.03	0.01	0.01	0.12	36.305	36.295	36.24	0.3	1.29	1.71			
C1/6 to C1/5	RRJ4	675	13.26	1	0.36	8.64	102.2	0.881	250.2	6.75	112.7	0.84	262.9	0	262.9	-2.9	260	911	0.29	0.73	2.19	1.56	37.745	35.768	35.635	0.051	0.52		0.03	0.01	0.01	0.01	36.24	36.226	36.235	-0.07	1.25	1.51			
C1/5 to C1/4	RRJ4	675	7.56	1	0.36	8.74	101.7	0.903	255.1	6.85	112.1	0.86	268.2	0	268.2	-2.4	270.6	911	0.3	0.76	2.22	1.58	37.622	35.585	35.509	0.051	0.43		0.03	0.01	0.01	0.01	36.235	36.222	36.218	0.06	1.32	1.39			
C1/4 to C1/3	RRJ4	675	5.25	1	0.36	8.8	101.5	1.998	563.3	7.3	109.3	1.95	592.1	0	592.1	0	592.1	911	0.65	1.65	2.71	2.13	37.69	35.459	35.407	0.03	0.36		0.14	0.05	0.05	0.02	36.218	36.167	36.145	0.42	1.5	1.47			
C1/3 to C1/2	RRJ2	675	4.1	1	0.36	8.83	101.3	1.998	562.4	7.34	109.1	1.95	591.1	0	591.1	0	591.1	911	0.65	1.65	2.71	2.13	37.631	35.377	35.336	0.7	2		0.14	0.28	0.28	0	36.145	35.867	35.732	3.28	1.52	1.49			
C1/2 to C1/1	RRJ2	675	10.74	0.7	0.36	8.86	101.2	1.998	561.8	7.36	109	1.95	590.3	0	590.3	0	590.3	763.5	0.77	1.65	2.35	2.12	37.579	34.636	34.561	0.05	2		0.14	0.28	0.28	0.04	35.517	35.239	35.215	0.23	2.18	2.06			
C1/1 to A/3	RRJ2	675	22.88	0.7	0.36	8.93	100.8	1.998	559.8	7.44	108.5	1.95	587.9	0	587.9	0	587.9	762.2	0.77	1.64	2.35	2.12	37.457	34.511	34.35	0.05	0.7	0.71	0.14	0.1	0.1	0.09	35.216	35.119	35.047	0.32	1.78	2.24			
H/11 to H/10	RRJ4	375	5.81	1.02	0.11	6.63	113.5	0.089	28	6.44	114.7	0.09	28.1	0	28.1	0	28.1	191.5	0.15	0.25	1.24	0.92	40.131	38.713	38.654	0.051	0.3			0	0	0	0.05	38.834	38.833	38.751	1.41	0.92	1.3		
H/10 to H/9	RRJ4	375	27.84	1.02	0.11	6.71	113	0.104	32.7	6.52	114.2	0.1	32.9	0	32.9	-1.4	31.5	191.9	0.16	0.29	1.28	0.95	39.962	38.604	38.32	0.031	1.86	2.17	0	0.01	0.01	0.25	38.74	38.731	38.515	0.78	0.65	1.22			
H/9 to H/8	RRJ4																																								

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DESIGN STORM 1:100yr ARI HYDROLOGIC RESULTS																													
PIT	PIT	CATCHMENT	IMPERVIOUS	RUNOFF	IMPERVIOUS	IMPERVIOUS	PERVIOUS	PERVIOUS	FULL AREA	FULL AREA	FULL AREA	PARTIAL AREA	PARTIAL AREA	PARTIAL AREA	TOTAL	DIRECT	APPROACH	FLOODED	FLOODED	FLOODED	ROAD	ROAD	CHOKO	INLET	BYPASS	BYPASS	COMMENTS		
NAME	TYPE	AREA	PERCENTAGE	C	TIME Tc	INTENSITY I	TIME Tc	INTENSITY I	TIME Tc	INTENSITY I	CATCHMENT FLOW Qc	TIME Tc	INTENSITY I	CATCHMENT FLOW Qc	CATCHMENT FLOW Qc	FLOW Qd	FLOW Qa	DEPTH d	WIDTH w	(vxw)	GRADE	XFALL	FACTOR	FLOW Qg	FLOW Qb	PIT			
(-)	(-)	(ha)	(%)	(-)	(min)	(mm/hr)	(min)	(mm/hr)	(min)	(mm/hr)	(L/s)	(min)	(mm/hr)	(L/s)	(L/s)	(L/s)	(L/s)	(m)	(m)	(sq.m/s)	(%)	(%)	(-)	(L/s)	(L/s)	(-)			
C1/19	GISP 900x900 A	0.016	95	0.971	6	207.5	6	207.5	6	207.5	9	6	207.5	9	9	9	0	11	0.03	2.15	0.01	0.7	3	0.8	6	5	C1/18		
C1/18	GISP 900x900 A	0.019	95	0.971	6	207.5	6	207.5	6	207.5	11	6	207.5	11	11	11	0	18	0.03	2.89	0.01	0.8	3	0.8	9	9	C1/17		
C1/17	GISP 900x900 A	0.022	95	0.971	6	207.5	6	207.5	6	207.5	12	6	207.5	12	12	12	0	21	0.03	1.98	0.02	4.6		0.8	10	11	C1/16		
C1/16	GISP 900x900 A	0.032	90	0.942	6	207.5	6	207.5	6	207.5	17	6	207.5	17	17	17	0	31	0.04	2.55	0.02	1.9		0.8	13	17	C1/15		
C1/15	GISP 900x900 A	0.027	90	0.942	6	207.5	6	207.5	6	207.5	14	6	207.5	14	14	14	0	32	0.05	3.06	0.02	0.8		0.8	14	18	C1/14		
C1/14	GISP 900x900 A	0.021	95	0.971	6	207.5	6	207.5	6	207.5	12	6	207.5	12	12	12	0	33	0.05	3.12	0.02	0.7		0.8	15	18	C1/13		
C1/13	GISP 900x900 A	0.01	90	0.942	6	207.5	6	207.5	6	207.5	6	6	207.5	6	6	6	0	24	0.04	2.76	0.02	0.7		0.8	11	13	C1/11		
C1/12	JP SEALED 900 x 900	0	0						0	0	0	0	0	0	0	0	0	0				1.4			0	0			
C1/11	GISP 900x900 A	0.024	90	0.942	6	207.5	6	207.5	6	207.5	13	6	207.5	13	13	13	0	28	0.04	2.57	0.02	1.9		0.8	12	16	C1/10		
C1/10	GISP 900x900 A	0.023	95	0.971	6	207.5	6	207.5	6	207.5	13	6	207.5	13	13	13	0	30	0.04	2.6	0.02	1.5		0.8	13	17	C1/9		
C1/9	GISP 900x900 A	0.023	95	0.971	6	207.5	6	207.5	6	207.5	13	6	207.5	13	13	13	0	62	0.04	4.17	0.03	1.5		0.8	23	39	C1/8		
C1/8	GISP 900x900 A	0.04	95	0.971	6	207.5	6	207.5	6	207.5	22	6	207.5	22	22	22	0	64	0.05	3.46	0.04	1.5		0.8	24	40	C1/7		
C1/7	GISP 900x900 A	0.021	95	0.971	6	207.5	6	207.5	6	207.5	12	6	207.5	12	12	12	0	54	0.05	3.25	0.03	1.5		0.8	21	33	C1/6		
C1/6	GISP 900x900 A	0.021	95	0.971	6	207.5	6	207.5	6	207.5	12	6	207.5	12	12	12	0	49	0.05	3.14	0.03	1.5	0.477448		11	37	C1/5		
C1/5	GSIP 900x900 SAG	0.027	90	0.942	6	207.5	6	207.5	6	207.5	15	6	207.5	15	15	15	0	71	0.06			0.3		0.5	46	25	LOST		
C1/4	JP GRATED 900 x 900	0	50	0.71	6	207.5	6	207.5	6	207.5	0	6	207.5	0	0	0	0	0	0	1.27	0	0.8	1.5	0.8	0	0	LOST		
C1/3	GPT	0	0						0	0	0	0	0	0	0	0	0	0							0	0			
C1/2	GPT	0	0						0	0	0	0	0	0	0	0	0	0							0	0			
C1/1	JP SEALED 900 x 900	0	0						0	0	0	0	0	0	0	0	0	0							0	0		EXISTING	
H/11	IAD 900x900	0.002	85	0.913	6	207.5	6	207.5	6	207.5	1	6	207.5	1	1	1	0	1				2.5	-2.5	0.8	1	0	H/10		
H/10	GISP 900x900 A	0.019	90	0.942	6	207.5	6	207.5	6	207.5	11	6	207.5	11	11	11	0	11	0.02	1.6	0.01	2.5		0.8	6	5	H/9		
H/9	GISP 900x900 A	0.049	90	0.942	6	207.5	6	207.5	6	207.5	26	6	207.5	26	26	26	0	46	0.03	3.15	0.02	1.3		0.8	18	27	H/8		
H/8	GISP 900x900 A	0.037	90	0.942	6	207.5	6	207.5	6	207.5	20	6	207.5	20	20	20	0	53	0.05	3.37	0.03	1.2		0.8	20	32	H/7		
H/7	GISP 900x900 A	0.042	90	0.942	6	207.5	6	207.5	6	207.5	23	6	207.5	23	23	23	0	69	0.04	3.72	0.03	1.2		0.8	25	44	H/6		
H/6	GISP 900x900 A	0.043	90	0.942	6	207.5	6	207.5	6	207.5	23	6	207.5	23	23	23	0	70	0.03	3.75	0.02	1.2		0.8	25	45	H/5		
H/5	GISP 900x900 A	0.02	90	0.942	6	207.5	6	207.5	6	207.5	11	6	207.5	11	11	11	0	58	0.05	3.5	0.03	1.2		0.8	22	36	H/4		
H/4	GISP 900x900 A	0.016	95	0.971	6	207.5	6	207.5	6	207.5	9	6	207.5	9	9	9	0	54	0.02	3.68	0.02	1.6		0.8	21	33	H/3		
H/3	GISP 900x900 A	0.018	95	0.971	6	207.5	6	207.5	6	207.5	10	6	207.5	10	10	10	0	44	0.05	3.16	0.03	1.1		0.8	18	26	H/2		
H/2	GISP 900x900 A	0.025	95	0.971	6	207.5	6	207.5	6	207.5	14	6	207.5	14	14	14	0	40	0.05	3.05	0.03	1.1		0.8	17	23	H/1		
H/1	GISP 900x900 A	0.02	95	0.971	6	207.5	6	207.5	6	207.5	11	6	207.5	11	11	11	0	35	0.05	3.04	0.02	1		0.8	15	19	C1/5		
HA/9	IAD 600x600	0.014	85	0.913	6	207.5	6	207.5	6	207.5	7	6	207.5	7	7	7	0	7							7	0			
HA/8	IAD 600x600	0.016	85	0.913	6	207.5	6	207.5	6	207.5	8	6	207.5	8	8	8	0	8							8	0			
HA/7	IAD 600x600	0.01	85	0.913	6	207.5	6	207.5	6	207.5	5	6	207.5	5	5	5	0	5							5	0			
HA/6	IAD 600x900	0.01	85	0.913	6	207.5	6	207.5	6	207.5	5	6	207.5	5	5	5	0	5							5	0			
HA/5	IAD 600x900	0.02	85	0.913	6	207.5	6	207.5	6	207.5	11	6	207.5	11	11	11	0	11							11	0			
HA/4	IAD 600x900	0.01	85	0.913	6	207.5	6	207.5	6	207.5	5	6	207.5	5	5	5	0	5							5	0			
HA/3	IAD 900x900	0.009	85	0.913	6	207.5	6	207.5	6	207.5	5	6	207.5	5	5	5	0	5							5	0			
HA/2	IAD 900x900	0.013	85	0.913	6	207.5	6	207.5	6	207.5	7	6	207.5	7	7	7	0	7							7	0			
HA/1	IAD 900x900	0.012	85	0.913	6	207.5	6	207.5	6	207.5	6	6	207.5	6	6	6	0	6							6	0			
HB/9	IAD 600x600	0.014	85	0.913	6	207.5	6	207.5	6	207.5	7	6	207.5	7	7	7	0	7							7	0			
HB/8	IAD 600																												

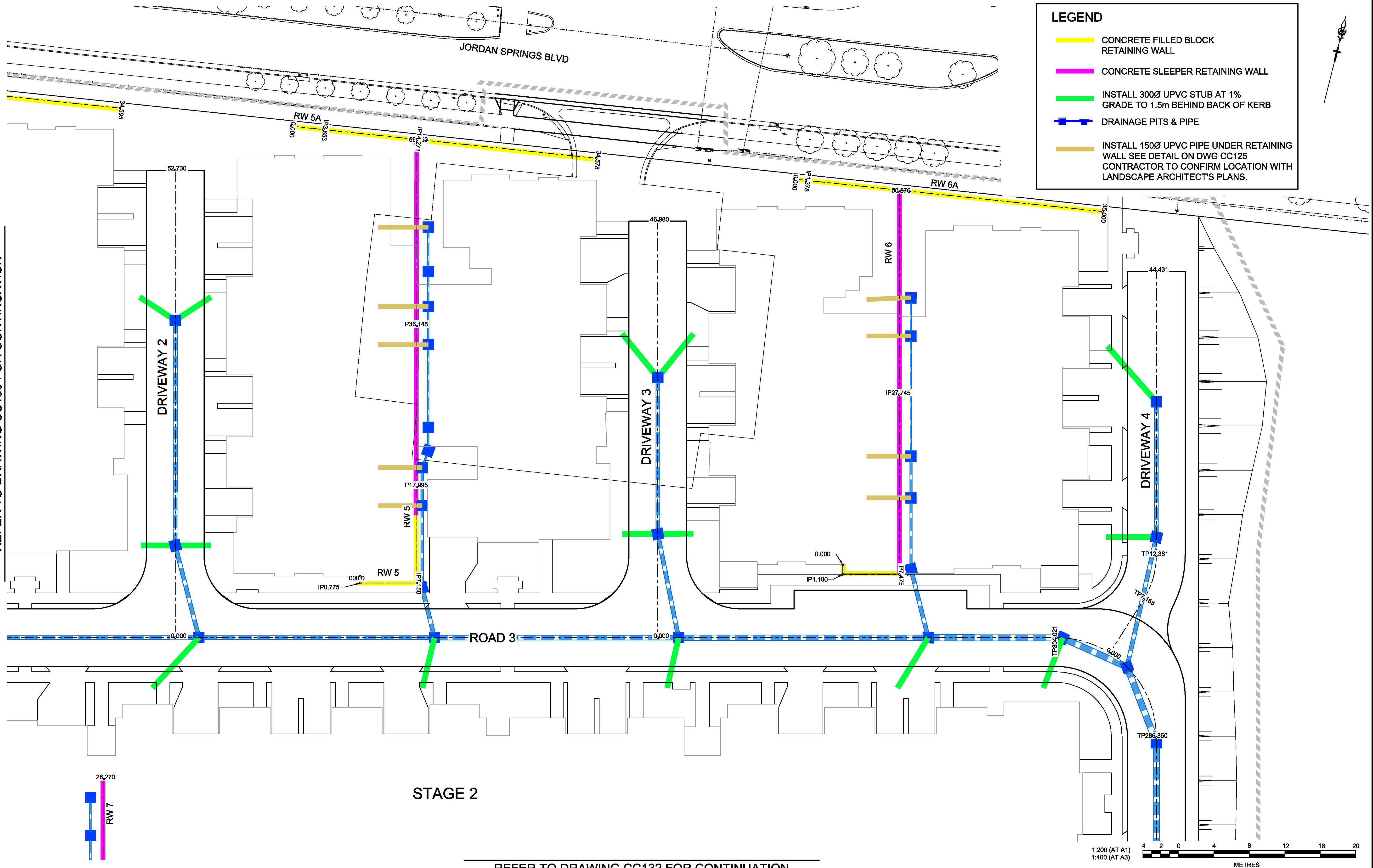
Plotbook: 22 May , 2019 4:51:53 PM File Name: J:\110487 - Jordan Springs Retirement Living\02 - Development Application Stage\CDCC\STAGE 2\11048702CC129.dwg

DESIGN STORM 1:100yr ARI HYDRAULIC RESULTS

PIPE NAME	PIPE TYPE	PIPE DIAMETER (mm)	PIPE LENGTH (m)	PIPE SLOPE (%)	PIPE AREA (sq.m)	PIPE AF (min)	FULL AREA TIME Tc (min)	FULL AREA INTENSITY I (mm/hr)	FULL AREA SUM CA (ha)	FULL AREA FLOW Qc (L/s)	PART-AREA TIME Tc (min)	PART-AREA INTENSITY I (mm/hr)	PART-AREA SUM CA (ha)	PART-AREA FLOW Qc (L/s)	DIRECT PIPE FLOW Qp (L/s)	PEAK FLOW Qrat (L/s)	NET BYPASS FLOW Qb (L/s)	PIPE FLOW Q (L/s)	FLOW CAP. Qcap (L/s)	Q/Qcap RATIO (-)	FULL PIPE VELOCITY (m/s)	NORM. DEPTH VELOCITY (m/s)	CRIT. DEPTH VELOCITY (m/s)	U/S PIT GRATE RL (m)	PIPE U/S IL (m)	PIPE D/S IL (m)	PIPE D/S DROP (m)	U/S PIT Ku (-)	U/S PIT Kw (-)	PIPE V HEAD (m)	PIT LOSS (Ku.V'head) (m)	WSE LOSS (Kw.V'head) (m)	TOTAL PIPE LOSS (m)	U/S PIT HGL (m)	U/S PIPE HGL (m)	D/S PIPE HGL (m)	HGL GRADE (%)	MIN. COVER (m)	U/S FREEBOARD (m)	COMMENTS		
C1/19 to C1/18	RRJ4	375	14.24	1	0.11		6	207.5	0.016	9.2	6	207.5	0.02	9.2	0	9.2	-3.2	6	190.4	0.03	0.05	0.78	0.61	41.32	40.305	40.162		0.05	4.5		0	0	0	0	0.14	40.36	40.359	40.208	1.07	0.6	0.96	
C1/18 to C1/17	RRJ4	375	16.81	2.56	0.11		6.3	203.7	0.035	19.7	6	207.5	0.03	19.6	0	19.7	-5.2	14.5	303.9	0.05	0.13	1.41	0.77	41.206	40.112	39.682		0.116	3.01		0	0	0	0	0.39	40.2	40.197	39.739	2.73	0.61	1.01	
C1/17 to C1/16	RRJ4	375	19.33	2.88	0.11		6.5	201.4	0.107	59.8	6.24	204.4	0.11	60	0	60	-13.5	46.5	322.3	0.14	0.42	2.07	1.07	40.662	39.567	39.011		0.051	1.77	2	0.01	0.02	0.02	0.55	39.741	39.723	39.155	2.94	0.6	0.92		
C1/16 to C1/15	RRJ4	375	14.75	1	0.11		6.66	199.6	0.137	75.8	6.35	203.1	0.14	76.3	0	76.3	-17.3	58.9	190.4	0.31	0.53	1.52	1.16	40.069	38.961	38.813		0.051	1.21		0.01	0.02	0.02	0.13	39.155	39.137	38.956	1.23	0.69	0.91		
C1/15 to C1/14	RRJ4	450	17.62	1	0.16		6.82	197.7	0.162	88.8	6.52	201.2	0.16	89.5	0	89.5	-17.6	71.9	309.7	0.23	0.45	1.59	1.17	39.932	38.763	38.586		0.05	0.73		0.01	0.01	0.01	0.18	38.956	38.948	38.772	1	0.68	0.98		
C1/14 to C1/13	RRJ4	450	8.89	1	0.16		7	195.7	0.213	115.6	6.6	200.3	0.21	116.8	0	116.8	-18.3	98.5	309.1	0.32	0.62	1.73	1.29	39.808	38.536	38.447		0.051	0.93		0.02	0.02	0.02	0.09	38.772	38.754	38.648	1.2	0.78	1.04		
C1/13 to C1/12	RRJ4	450	8.69	1	0.16		7.09	194.8	0.222	120.3	6.68	199.3	0.22	121.6	0	121.6	-12.6	109	309.1	0.35	0.69	1.77	1.33	39.746	38.397	38.31		0.051	0.86		0.02	0.02	0.02	0.07	38.648	38.627	38.498	1.48	0.86	1.1		
C1/12 to C1/11	RRJ4	450	8.69	1	0.16		7.17	193.9	0.222	119.8	6.76	198.4	0.22	121	0	121	-12.6	108.4	309.2	0.35	0.68	1.77	1.33	39.707	38.26	38.173		0.051	0.39		0.02	0.01	0.01	0.08	38.498	38.489	38.38	1.26	0.9	1.21		
C1/11 to C1/10	RRJ4	525	24.93	1	0.22		7.25	193.1	0.268	143.8	6.75	198.5	0.26	145.6	0	145.6	-15.7	129.9	466.8	0.28	0.6	1.85	1.34	39.549	38.123	37.873		0.031	0.9		0.02	0.02	0.02	0.25	38.38	38.363	38.107	1.03	0.75	1.17		
C1/10 to C1/9	RRJ4	525	24.93	1	0.22		7.48	190.8	0.29	153.8	6.98	196	0.29	155.8	0	155.8	-15.4	140.4	466.8	0.3	0.65	1.89	1.38	39.183	37.843	37.593		0.037	0.63		0.02	0.01	0.01	0.07	38.107	38.093	38.093	0	0.67	1.08		
C1/9 to C1/8	RRJ4	600	35.57	1	0.28		7.7	188.6	0.609	318.9	6.69	199.1	0.59	327.9	0	327.9	-39.1	288.8	665.5	0.43	1.02	2.27	1.69	38.816	36.606	36.25		0.031	1.65	1.78	0.05	0.09	0.09	0.07	38.1	38.006	37.939	0.19	1.41	0.72		
C1/8 to C1/7	RRJ4	600	18.64	1	0.28		7.96	186.1	0.803	415	6.71	199	0.78	429.7	0	429.7	-55.6	374	665.5	0.56	1.32	2.42	1.86	38.293	36.22	36.034		0.031	0.45		0.09	0.04	0.04	0.06	37.939	37.899	37.84	0.32	1.35	0.35		
C1/7 to C1/6	RRJ4	600	18.64	1	0.28		8.09	184.9	0.823	422.6	6.83	197.6	0.8	437.6	0	437.6	-46.5	391.1	665.5	0.59	1.38	2.45	1.9	38.019	36.004	35.818		0.051	0.35		0.1	0.03	0.03	0.06	37.84	37.805	37.741	0.35	1.29	0.18		
C1/6 to C1/5	RRJ4	675	13.26	1	0.36		8.21	183.8	1.046	534.1	6.63	199.8	1.01	558	0	558	-70.3	487.7	911	0.54	1.36	2.59	1.95	37.745	35.768	35.635		0.051	0.46		0.09	0.04	0.04	0.04	37.741	37.697	37.659	0.29	1.25	0		
C1/5 to C1/4	RRJ4	675	7.56	1	0.36		8.3	183	1.072	545	6.72	198.9	1.03	569.6	0	569.6	-38.9	530.7	911	0.58	1.48	2.64	2.03	37.622	35.585	35.509		0.051	0		0	0	0	0	37.659	37.659	37.659	0	1.32	-0.04		
C1/4 to C1/3	RRJ4	675	5.25	1	0.36		8.35	182.6	2.373	1203.6	7.07	195	2.32	1257.9	0	1257.9	-58.3	1199.5	911	1.32	3.35	3.35	3.42	37.69	35.459	35.407		0.03	0.37		0.05	0.02	0.02	0.01	37.659	37.639	37.631	0.16	1.5	0.03		
C1/3 to C1/2	RRJ2	675	4.1	1	0.36		8.37	182.4	2.373	1202.1	7.1	194.7	2.32	1256.1	0	1256.1	-58.3	1197.7	911	1.31	3.35	3.35	3.41	37.631	35.377	35.336		0.7	2		0.02	0.05	0.05	0	37.631	37.582	37.579	0.07	1.52	0		
C1/2 to C1/1	RRJ2	675	10.74	0.7	0.36		8.39	182.2	2.373	1200.9	7.12	194.5	2.32	1254.7	0	1254.7	-58.3	1196.3	763.5	1.57	3.34	3.34	3.41	37.579	34.636	34.561		0.05	2		0.2	0.39	0.39	0.06	37.579	37.188	37.124	0.59	2.18	0		
C1/1 to A/3	RRJ2	675	22.88	0.7	0.36		8.45	181.7	2.373	1197.8	7.17	194	2.32	1251	0	1251	-58.3	1192.7	762.2	1.56	3.33	3.33	3.4	37.457	34.511	34.35		0.05	0.66	0.66	0.57	0.37	0.38	0.39	37.128	36.752	36.36	1.71	1.78	0.33		
H/11 to H/10	RRJ4	375	5.81	1.02	0.11		6.48	201.7	0.106	59.2	6.32	203.6	0.11	59.4	0	59.4	-0.2	59.2	191.5	0.31	0.54	1.53	1.16	40.131	38.713	38.654		0.051	0.3		0.01	0	0	0	0.01	39.088	39.084	39.079	0.09	0.92	1.04	
H/10 to H/9	RRJ4	375	27.84	1.02	0.11		6.54	200.9	0.124	69.2	6.38	202.8	0.12	69.5	0	69.5	-5.1	64.4	191.9	0.34	0.58	1.57	1.19	39.962	38.604	38.32		0.031	1.83	2.13	0.02	0.03	0.04	0.03	39.084	39.047	39.015	0.11	0.65	0.88		
H/9 to H/8	RRJ4	375	26.56	1	0.11		6.83	197.6	0.307	168.3	6.52	201.2	0.3	170.1	0	170.1	-26.4	143.7	190.2	0.76	1.3	1.89	1.63	39.37	38.29	38.024		0.062	0.97		0.09	0.08	0.08	0.15	39.015	38.931	38.78	0.57	0.63	0.35		
H/8 to H/7	RRJ4	450	27.51	1.11	0.16		7.07	195	0.49	265.3	6.53	201	0.48	269.1	0	269.1	-32.1	236.9	324.8	0.73	1.49	2.23	1.82	39.061	37.962	37.658		0.089	0.69		0.11	0.08	0.08	0.16	38.78	38.701	38.539	0.59	0.6	0.28		
H/7 to H/6	RRJ4	450	28.15	1.11	0.22		7.27	192.9	0.676	362.2	6.57	200.6	0.66	369.2	0	369.2	-43.5	325.7	490.7	0.66	1.5	2.42	1.9	38.743	37.57	37.258		0.093	0.58		0.12	0.07	0.07	0.14	38.539	38.472	38.335	0.49	0.6	0.2		
H/6 to H/5	RRJ4	600	15.14	1.06	0.28		7.47	190.9	0.802	425.3	6.76	198.4	0.79	434.6	0	434.6	-41.7	393	686.3	0.57	1.39	2.51	1.9	38.417	37.166	37.005		0.051	0.49		0.1	0.05	0.05	0.05	38.335	38.287	38.234	0.35	0.6	0.08		
H/5 to H/4	RRJ4	600	7.98	1	0.28		7.57	189.9	0.869	458.4	6.86	197.3	0.86	468.9	0	468.9	-36	432.9	666.3	0.65	1.53	2.51	1.99	38.241	36.955	36.875		0.05	0.54		0.12	0.06	0.06	0.03	38.234	38.17	38.136	0.42	0.64	0.01		
H/4 to H/3	RRJ4	600	9.17	1	0.28		7.62	189.4	0.964	507	6.87	197.2	0.95	519.4	0	519.4	-33.5	485.9	666.6	0.73	1.72	2.57	2.1	38.148	36.825	36.733		0.05	0.73		0.15	0.11	0.11	0.05	38.136	38.026	37.977	0.53	0.68	0.01		
H/3 to H/2	RRJ4	600	18.86	1	0.28		7.68	188.8	0.981	514.6	6.93	196.5	0.97	527.2	0	527.2	-25.9	501.4	666.2	0.75	1.77	2.59	2.14	38.042	36.683	36.494		0.302	0.4		0.16	0.06	0.06	0.11	37.977	37.912	37.805	0.57	0.7	0.06		
H/2 to H/1	RRJ4	675	16.04	1	0.36		7.8	187.6	1.281	667.7	6.97	196.1	1.26	696	0	696	-23.3	662.8	912.6	0.73	1.85	2.78	2.25	37.83	36.192	36.031		0.05	0.35		0.18	0.06	0.06	0.08	37.805	37.744	37.659	0.53	0.9	0.02		
H/1 to C1/4	RRJ4	675	6.59	1	0.36		7.9	186.7	1.301	674.6	7.06	195.1	1.28	693	0	693	-19.4	673.6	911.6	0.74	1.88	2.79	2.27	37.653	35.981	35.915		0.456	0		0	0	0	0	37.659	37.659	37.659	0	0.96	-0.01		
HA/9 to HA/8	uPVC	150	2.4	1	0.02		6	207.5	0.013	7.3	6	207.5	0.01	7.3	0	7.3	0	7.3	19.8	0.37	0.41	1.03	0.78	40.272	39.519	39.495		0.031	4.5		0	0	0	0	40.272	40.272	40.272	0	0.6	0		
HA/8 to HA/7	uPVC	150	6.56																																							

Plotdate: 22 May , 2019 4:52:22 PM File Name: J:\110487 - Jordan Springs Retirement Living\02 - Development Application Stage\CD\CC131.dwg

REFER TO DRAWING CC130 FOR CONTINUATION



STAGE 2

REFER TO DRAWING CC132 FOR CONTINUATION

PLAN
SCALE 1:200

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 F 02 4720 3399 W www.jwprince.com.au E jwp@jwprince.com.au

AZIMUTH:
DATUM:
ORIGIN:

CLIENT: 

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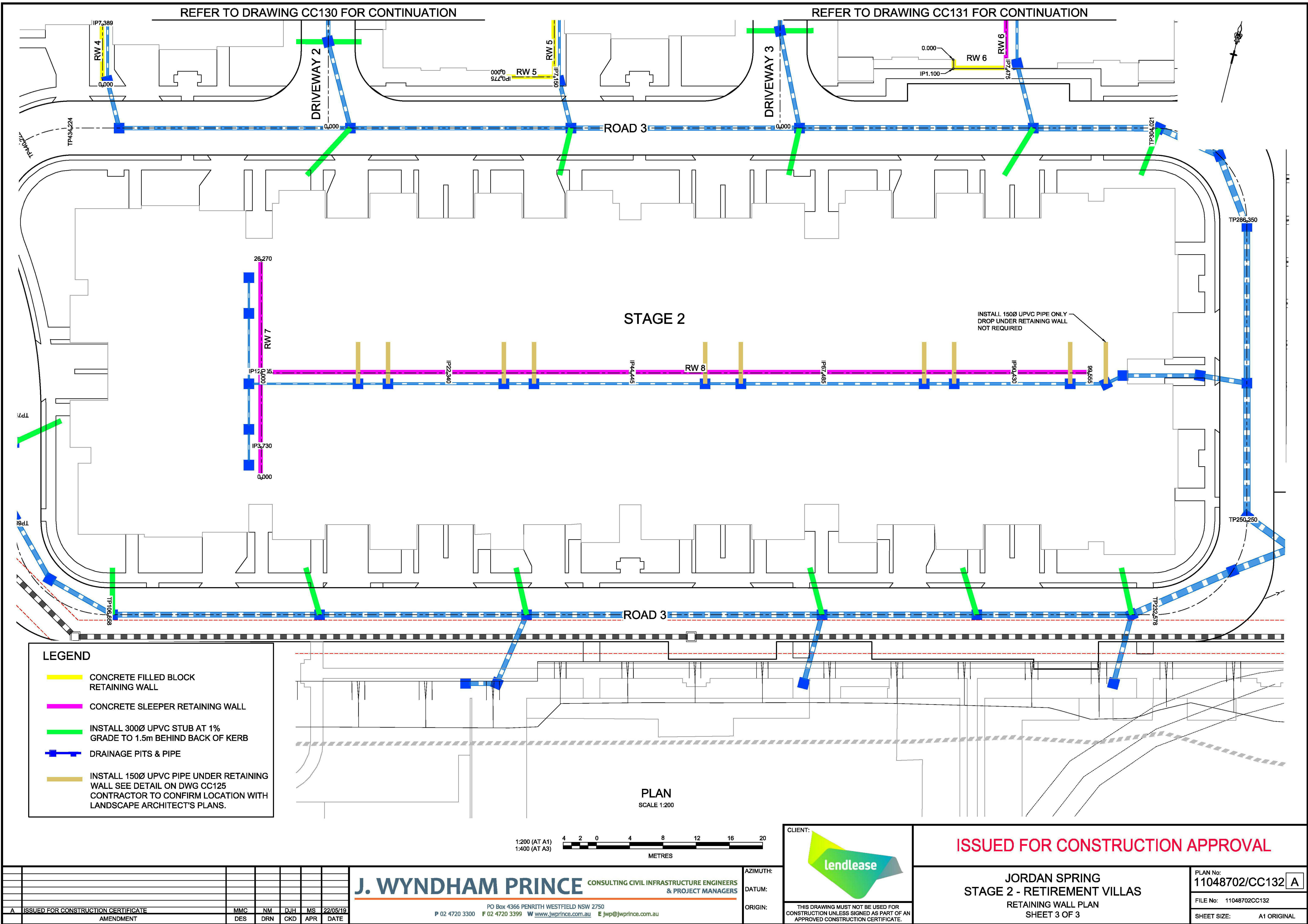
ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
RETAINING WALL PLAN
SHEET 2 OF 3

PLAN No:
11048702/CC131 A
FILE No: 11048702CC131
SHEET SIZE: A1 ORIGINAL

A	ISSUED FOR CONSTRUCTION CERTIFICATE	MMC	NM	DJH	MS	22/05/19
		DES	DRN	CKD	APR	DATE

Picked: 22 May, 2019 4:52:37 PM File Name: J:\110487 - Jordan Springs Retirement Living\02 - Development Application Stage\CC\CC132.dwg



LEGEND

- CONCRETE FILLED BLOCK RETAINING WALL
- CONCRETE SLEEPER RETAINING WALL
- INSTALL 300Ø UPVC STUB AT 1% GRADE TO 1.5m BEHIND BACK OF KERB
- DRAINAGE PITS & PIPE
- INSTALL 150Ø UPVC PIPE UNDER RETAINING WALL SEE DETAIL ON DWG CC125 CONTRACTOR TO CONFIRM LOCATION WITH LANDSCAPE ARCHITECT'S PLANS.

PLAN

SCALE 1:200



CLIENT:



AZIMUTH:

DATUM:

ORIGIN:

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ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
RETAINING WALL PLAN
SHEET 3 OF 3

PLAN No:
11048702/CC132 **A**
FILE No: 11048702CC132
SHEET SIZE: A1 ORIGINAL

A ISSUED FOR CONSTRUCTION CERTIFICATE

AMENDMENT

MMC NM DJH MS 22/05/19
DES DRN CKD APR DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS & PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
P 02 4720 3300 F 02 4720 3399 W www.jwprince.com.au E jwp@jwprince.com.au

LEGEND

TYPE 1 - BORAL FLUSHFACE
KEYSTONE CHARCOAL
COLOUR RETAINING WALL
(SUBJECT TO CLIENT
CONFIRMATION)

RW 2			
CHAINAGE	EASTING	NORTHING	BEARING
0	289031.6	6265562.73	41°43'46.27"
30.69	289052.03	6265585.64	
46.23	289063	6265574.62	135°07'38.74"



JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
RETAINING WALL SECTION
SHEET 1 OF 6

PLAN No:	
11048702/CC133	A
FILE No: 11048702CC133	
SHEET SIZE:	A1 ORIGINAL

A	ISSUED FOR CONSTRUCTION CERTIFICATE	MMC	NM	DJH	MS
	AMENDMENT	DES	DRN	CKD	APR
					DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS
& PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750

P 02 4720 3300 F 02 4720 3399 W www.jwprince.com.au E jwp@jwprince.com.au

AZIMUTH:	
DATUM:	
ORIGIN:	

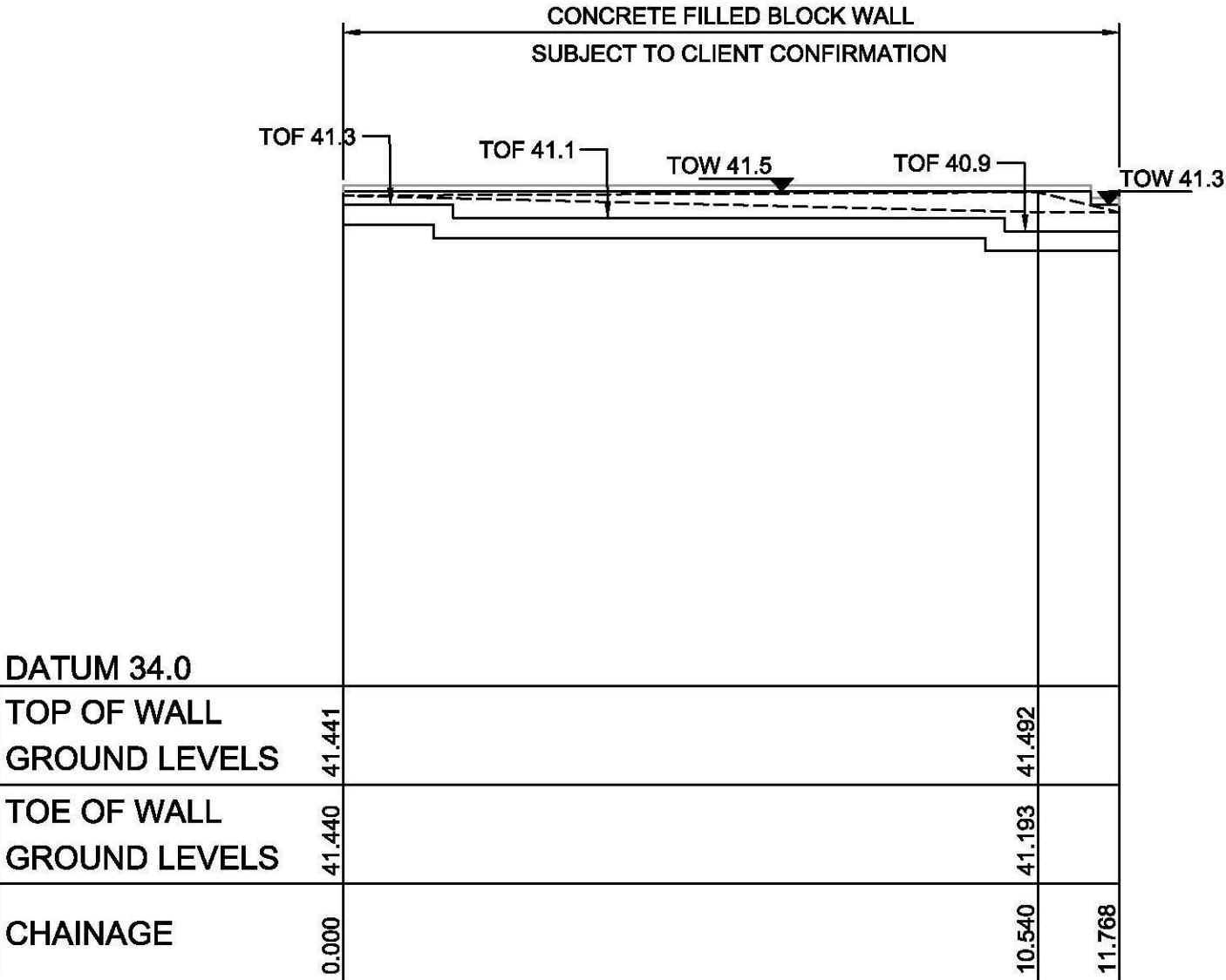
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NOTE: T.O.W LEVELS SHOWN
ARE TO UNDERSIDE OF CAPPING

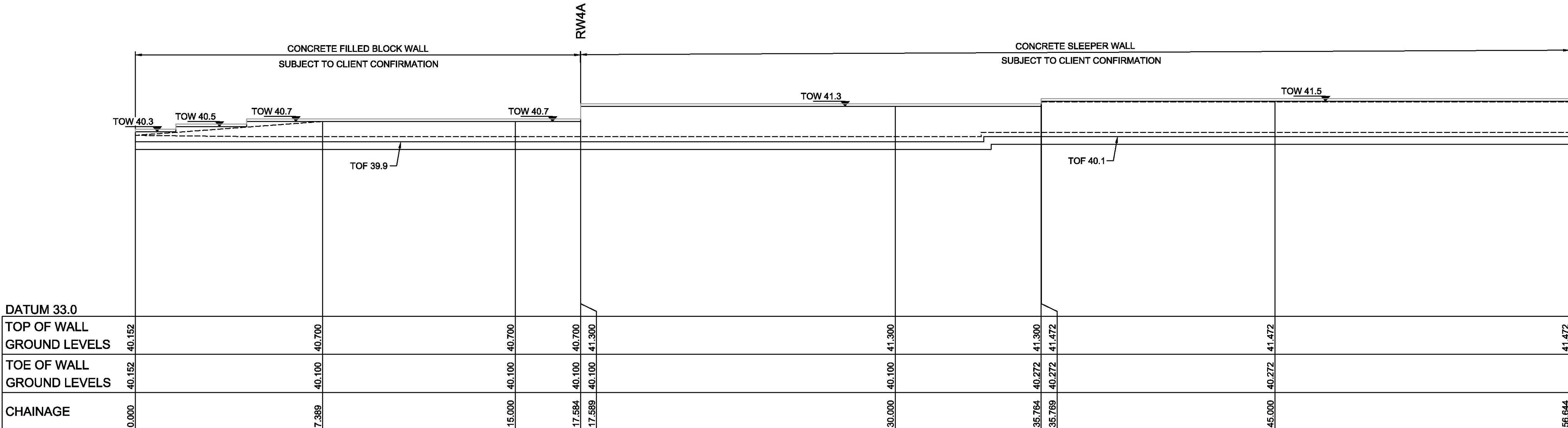
RW 3			
CHAINAGE	EASTING	NORTHING	BEARING
0	289043.54	6265617.13	345°58'14.41"
11.77	289040.68	6265628.55	345°58'14.41"

RW 4			
CHAINAGE	EASTING	NORTHING	BEARING
0	289088	6265589.23	345°58'15.00"
17.58	289083.74	6265606.29	
17.59	289083.74	6265606.3	
56.64	289074.27	6265644.19	345°58'15.00"

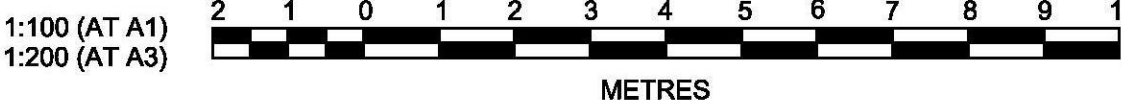
NOTE:
DESIGN AND CONSTRUCT RETAINING WALL,
IT IS THE CONTRACTOR RESPONSIBILITY FOR
STRUCTURAL DESIGN OF RETAINING WALL AND
FOOTING.



LONGITUDINAL SECTION RW 3
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



LONGITUDINAL SECTION RW 4
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



CLIENT:



THIS DRAWING MUST NOT BE USED FOR
CONSTRUCTION UNLESS SIGNED AS PART OF
APPROVED CONSTRUCTION CERTIFICATE.

ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
RETAINING WALL SECTION
SHEET 2 OF 6

PLAN No: 11048702/CC134 A

FILE No: 11048702CC134

SHEET SIZE: A1 ORIGINAL

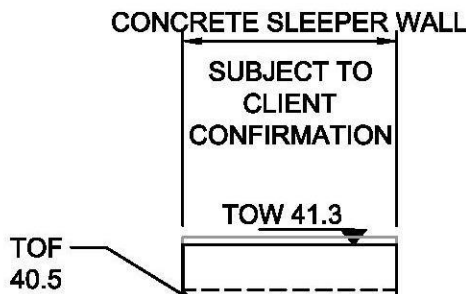
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NOTE: T.O.W LEVELS SHOWN
ARE TO UNDERSIDE OF CAPPING

RW 4A			
CHAINAGE	EASTING	NORTHING	BEARING
0	289083.54	6265606.25	255°58'15.00"
2.82	289080.8	6265605.56	255°58'15.00"

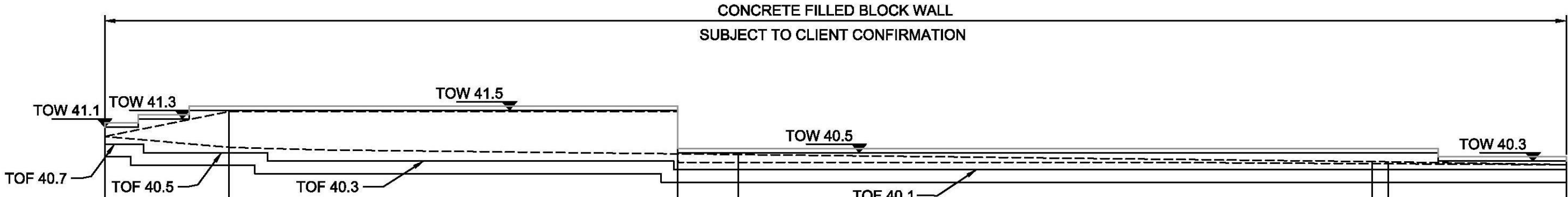
RW 4B			
CHAINAGE	EASTING	NORTHING	BEARING
0	289080.81	6265642.52	81°58'50.00"
1.08	289081.87	6265642.67	
1.08	289081.88	6265642.67	
2.14	289082.93	6265642.82	
2.15	289082.94	6265642.82	
13.56	289074.24	6265644.41	
13.57	289074.24	6265644.41	
19.86	289080.48	6265645.29	
19.87	289080.48	6265645.29	
34.6	289085.06	6265647.35	81°58'50.00"

NOTE:
DESIGN AND CONSTRUCT RETAINING WALL,
IT IS THE CONTRACTOR RESPONSIBILITY FOR
STRUCTURAL DESIGN OF RETAINING WALL AND
FOOTING.



DATUM 34.0		
TOP OF WALL	41.300	41.300
GROUND LEVELS	41.300	41.300
TOE OF WALL	40.700	40.700
GROUND LEVELS	40.700	40.700
CHAINAGE	0.000	2.825

LONGITUDINAL SECTION RW 4A
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



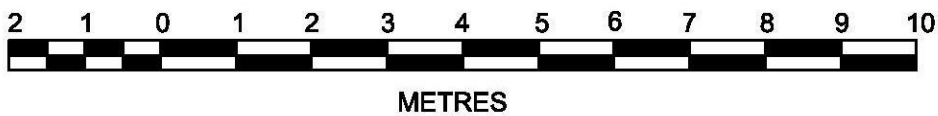
DATUM 33.0		
TOP OF WALL	40.880	41.472
GROUND LEVELS	40.880	41.472
TOE OF WALL	40.880	40.825
GROUND LEVELS	40.880	40.825
CHAINAGE	0.000	2.948

13.551	40.471	41.472
13.566	40.293	40.471
15.000	40.272	40.455

30.000	40.239	40.287
30.377	40.237	40.283
34.595	40.214	40.214

LONGITUDINAL SECTION RW 4B
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100

1:100 (AT A1)
1:200 (AT A3)



CLIENT:



ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
RETAINING WALL SECTION
SHEET 3 OF 6

PLAN No:
11048702/CC135 **A**
FILE No: 11048702CC135
SHEET SIZE: A1 ORIGINAL

A	ISSUED FOR CONSTRUCTION CERTIFICATE	MMC	NM	DJH	MS	22/05/19
	AMENDMENT	DES	DRN	CKD	APR	DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS
& PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
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AZIMUTH:
DATUM:
ORIGIN:

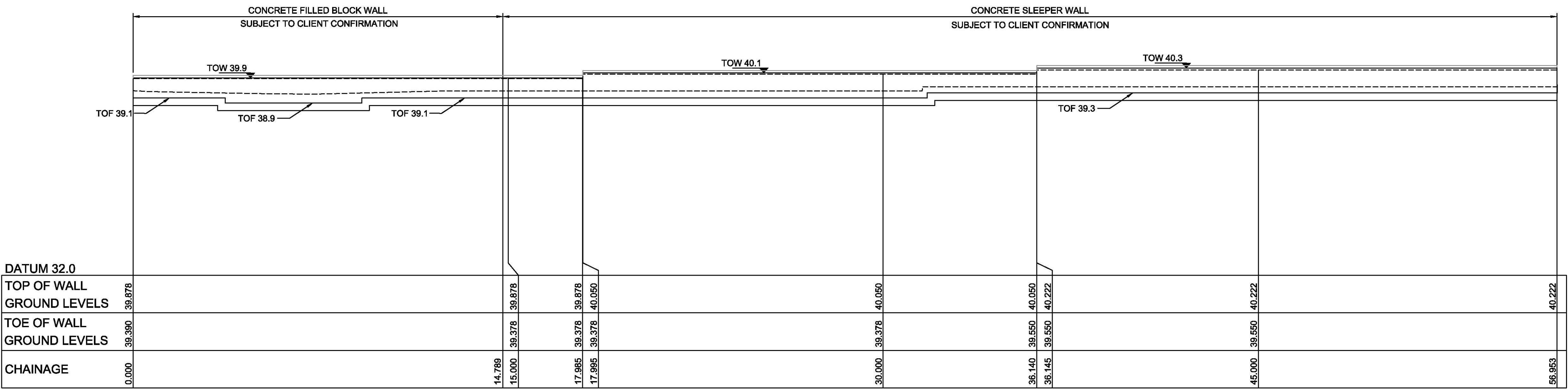
THIS DRAWING MUST NOT BE USED FOR
CONSTRUCTION UNLESS SIGNED AS PART OF AN
APPROVED CONSTRUCTION CERTIFICATE.

**NOTE: T.O.W LEVELS SHOWN
ARE TO UNDERSIDE OF CAPPING**

RW 5			
CHAINAGE	EASTING	NORTHING	BEARING
0	289134.13	6265602.71	165°58'15.00"
0.77	289134.32	6265601.95	
7.15	289140.51	6265603.5	
36.14	289133.48	6265631.63	
36.14	289133.48	6265631.63	
56.95	289128.43	6265651.82	345°58'15.00"

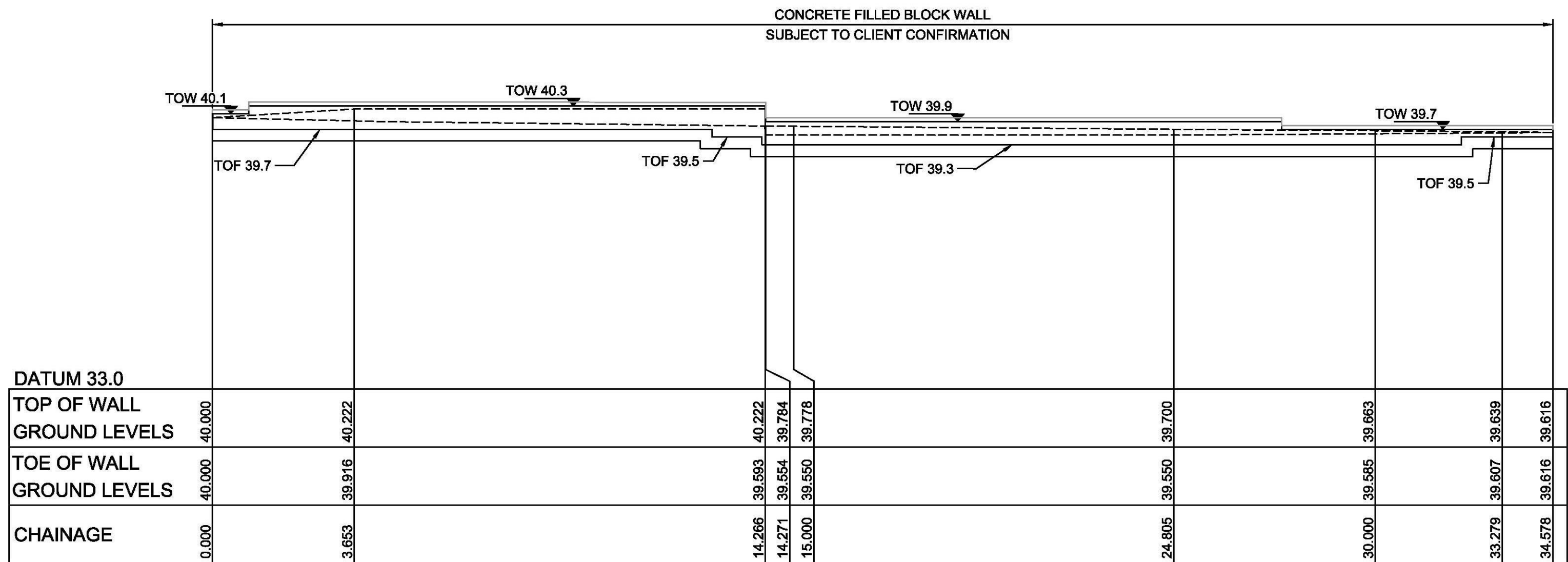
RW 5A			
CHAINAGE	EASTING	NORTHING	BEARING
0	289117.89	6265650.56	81°58'50.00"
10.61	289128.4	6265652.05	
10.62	289128.41	6265652.05	
32.44	289150.02	6265655.09	
32.45	289150.02	6265655.09	
34.62	289152.18	6265655.39	
36.78	289152.66	6265653.29	167°02'48.77"

NOTE:
DESIGN AND CONSTRUCT RETAINING WALL,
IT IS THE CONTRACTOR RESPONSIBILITY FOR
STRUCTURAL DESIGN OF RETAINING WALL AND
FOOTING.



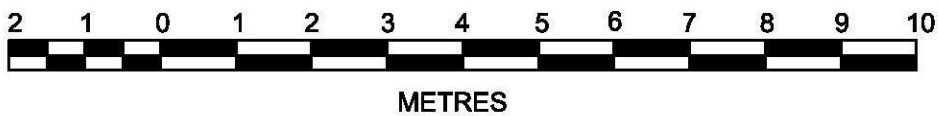
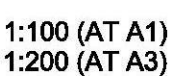
LONGITUDINAL SECTION RW 5

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



LONGITUDINAL SECTION RW 5A

HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



CLIENT



DATUM

ORIGIN

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ISSUED FOR CONSTRUCTION APPROVAL

**JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
RETAINING WALL SECTION
SHEET 4 OF 6**

PLAN No: 11048702/CC136 A

FILE No: 11048702CC136

SHEET SIZE: A1 ORIGINAL

A	ISSUED FOR CONSTRUCTION CERTIFICATE AMENDMENT	MMC DES	NM DRN	DJH CKD	MS APR
					22/05/19 DATE

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS
& PROJECT MANAGERS

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RW 6			
CHAINAGE	EASTING	NORTHING	BEARING
0	289186.6	6265617.16	165°58'15.00"
1.1	289186.86	6265616.09	
1.3	289187.06	6265616.14	
1.3	289187.06	6265616.14	
2.42	289188.14	6265616.41	
2.42	289188.15	6265616.41	
7.47	289193.05	6265617.63	
50.58	289192.6	6265659.45	345°58'15.00"

RW 6A			
CHAINAGE	EASTING	NORTHING	BEARING
0	289162.01	6265656.78	81°58'50.00"
12.93	289174.81	6265658.58	
12.94	289174.82	6265658.59	
32.36	289194.05	6265661.3	
32.37	289194.06	6265661.3	
44.39	289205.97	6265662.97	
46.45	289206.46	6265660.98	165°58'15.01"

[illegible]

CONCRETE FILLED BLOCK WALL		CONCRETE SLEEPER WALL	
SUBJECT TO CLIENT CONFIRMATION		SUBJECT TO CLIENT CONFIRMATION	
		TOW 39.3	TOW 39.5
TOF 38.5			TOF 38.7
DATUM 32.0			
TOP OF WALL	39.278	39.278	39.450
GROUND LEVELS			
TOE OF WALL	38.797	38.778	38.950
GROUND LEVELS			
CHAINAGE	0.000	15.000	30.000

DATUM 32.0
TOP OF WALL GROUND LEVELS
TOE OF WALL GROUND LEVELS
CHAINAGE



JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
RETAINING WALL SECTION
SHEET 5 OF 6

PLAN No:	
11048702/CC137	A
FILE No: 11048702CC137	
SHEET SIZE:	A1 ORIGINAL

A	ISSUED FOR CONSTRUCTION CERTIFICATE		MMC	NM	DJH	MS	22/05/1		
	AMENDMENT		DES	DRN	CKD	APR	DATE		

J. WYNDHAM PRINCE CONSULTING CIVIL INFRASTRUCTURE ENGINEERS
& PROJECT MANAGERS

PO Box 4366 PENRITH WESTFIELD NSW 2750
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AZIMUTH:	
DATUM:	
ORIGIN:	

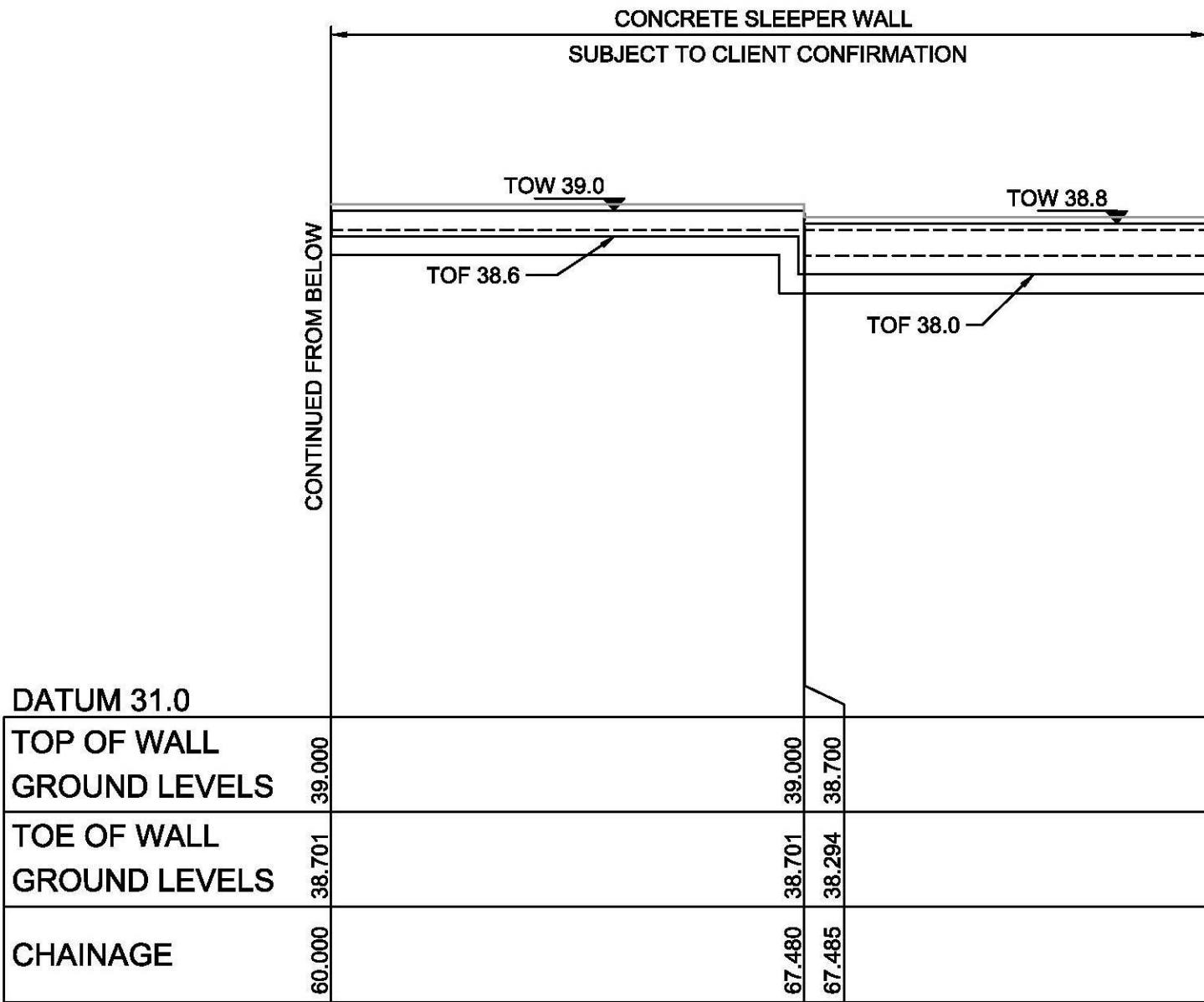
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NOTE: T.O.W LEVELS SHOWN
ARE TO UNDERSIDE OF CAPPING

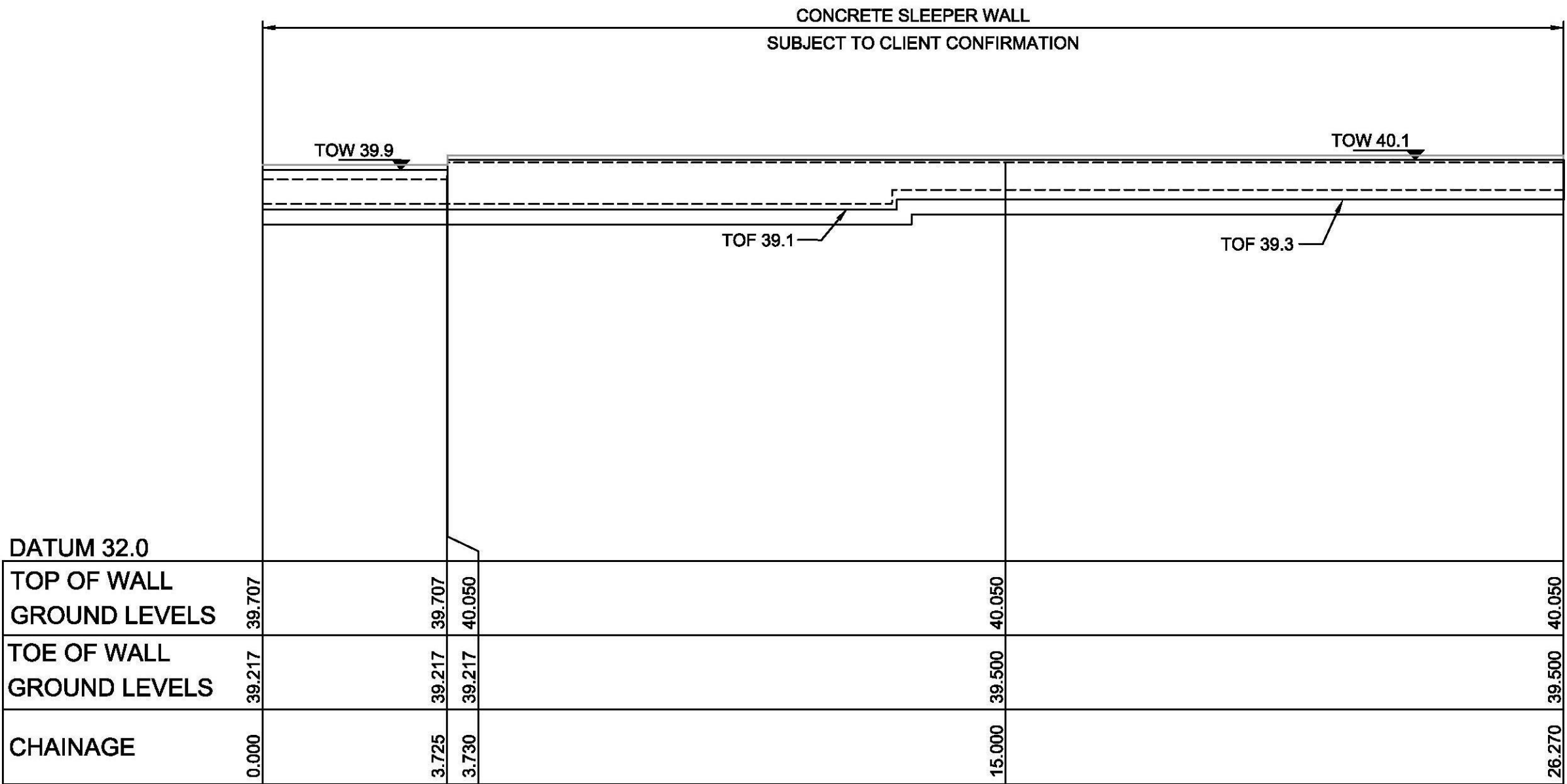
RW 7			
CHAINAGE	EASTING	NORTHING	BEARING
0	289118.01	6265548.03	345°58'15.01"
26.27	289111.64	6265573.52	345°58'15.01"

RW 8			
CHAINAGE	EASTING	NORTHING	BEARING
0	289114.93	6265560.38	75°58'15.00"
22.34	289136.6	6265565.78	
22.34	289136.6	6265565.78	
44.44	289158.05	6265571.14	
44.45	289158.05	6265571.14	
67.48	289180.4	6265576.72	
67.49	289180.4	6265576.72	
90.43	289202.66	6265582.28	
90.43	289202.66	6265582.28	
99.56	289211.52	6265584.5	75°58'15.00"

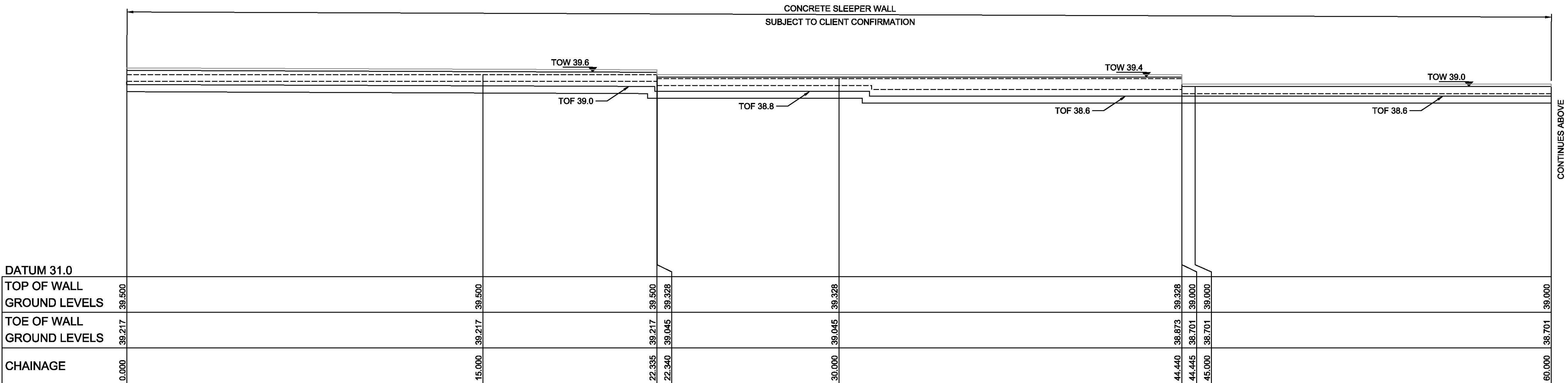
NOTE:
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FOOTING.



LONGITUDINAL SECTION RW 8
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



LONGITUDINAL SECTION RW 7
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



LONGITUDINAL SECTION RW 8
HORIZONTAL SCALE 1:100
VERTICAL SCALE 1:100



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AZIMUTH:

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ORIGIN:

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ISSUED FOR CONSTRUCTION APPROVAL

JORDAN SPRING
STAGE 2 - RETIREMENT VILLAS
RETAINING WALL SECTION
SHEET 6 OF 6

PLAN No:
11048702/CC138 A
FILE No: 11048702CC138
SHEET SIZE: A1 ORIGINAL

A ISSUED FOR CONSTRUCTION CERTIFICATE

AMENDMENT

MMC NM DJH MS 22/05/19

DES DRN CKD APR DATE

