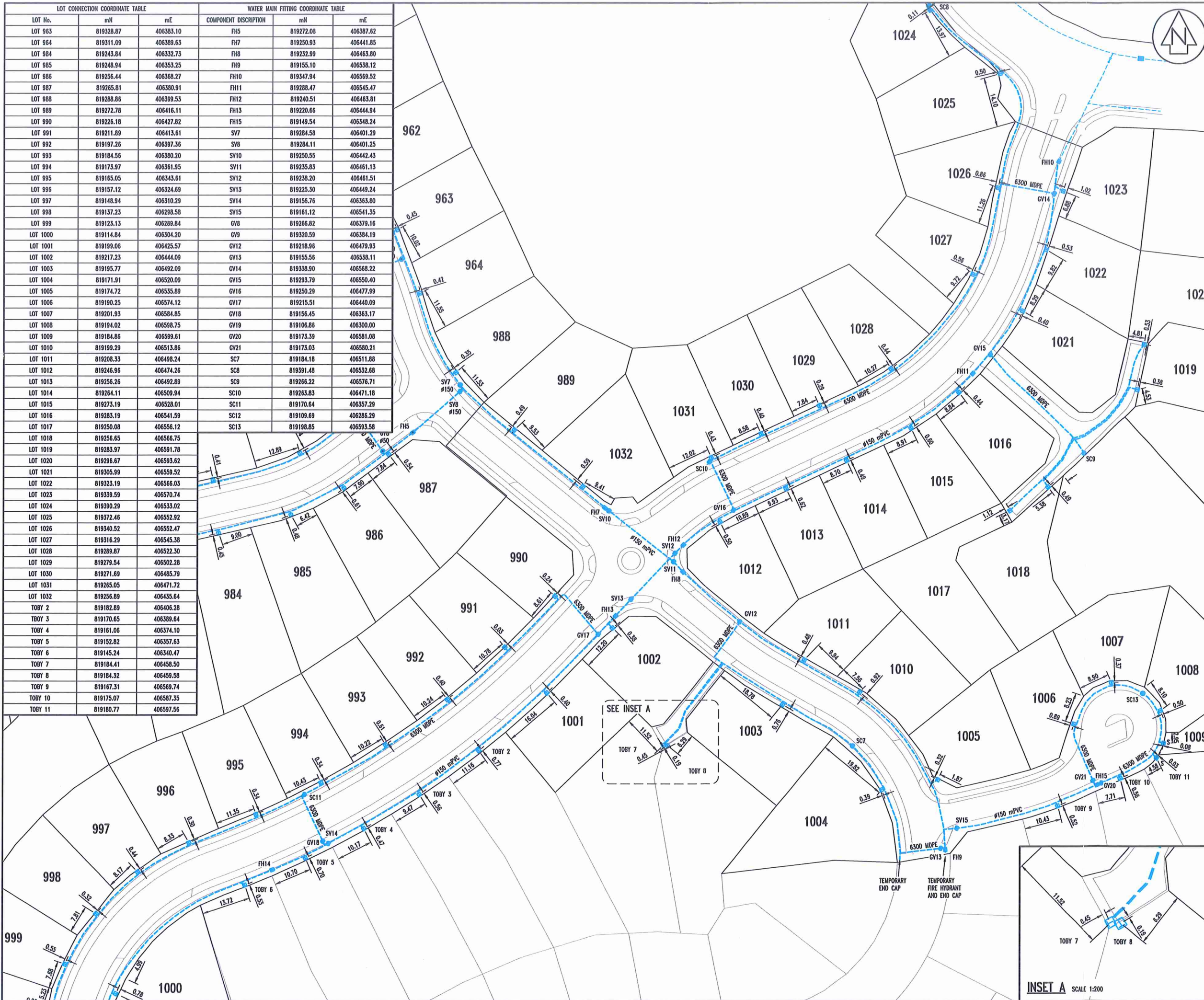


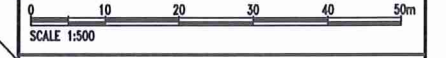
LOT CONNECTION COORDINATE TABLE			WATER MAIN FITTING COORDINATE TABLE		
LOT No.	mN	mE	COMPONENT DESCRIPTION	mN	mE
LOT 963	819328.87	406383.10	FH5	819272.08	406387.62
LOT 964	819311.09	406389.63	FH7	819250.93	406441.85
LOT 984	819243.84	406332.73	FH8	819232.99	406463.80
LOT 985	819248.94	406353.25	FH9	819155.10	406538.12
LOT 986	819256.44	406368.27	FH10	819347.94	406569.52
LOT 987	819265.81	406380.91	FH11	819288.47	406545.47
LOT 988	819288.86	406399.53	FH12	819240.51	406463.81
LOT 989	819272.78	406416.11	FH13	819220.66	406444.94
LOT 990	819226.18	406427.82	FH15	819149.54	406348.24
LOT 991	819211.89	406413.61	SV7	819284.58	406401.29
LOT 992	819197.26	406397.36	SV8	819284.11	406401.25
LOT 993	819184.56	406380.20	SV10	819250.55	406442.43
LOT 994	819173.97	406361.95	SV11	819235.83	406461.13
LOT 995	819165.05	406343.61	SV12	819238.20	406461.51
LOT 996	819157.12	406324.69	SV13	819225.30	406449.24
LOT 997	819148.94	406310.29	SV14	819156.76	406363.80
LOT 998	819137.23	406298.58	SV15	819161.12	406541.35
LOT 999	819123.13	406289.84	GV8	819266.82	406379.16
LOT 1000	819114.84	406304.20	GV9	819320.59	406384.19
LOT 1001	819199.05	406425.57	GV12	819218.96	406479.93
LOT 1002	819217.23	406444.09	GV13	819155.56	406538.11
LOT 1003	819195.77	406492.09	GV14	819338.90	406568.22
LOT 1004	819171.91	406520.09	GV15	819293.79	406550.40
LOT 1005	819174.72	406535.89	GV16	819250.29	406477.99
LOT 1006	819190.25	406574.12	GV17	819215.51	406440.09
LOT 1007	819201.93	406584.85	GV18	819156.45	406363.17
LOT 1008	819194.02	406598.75	GV19	819106.66	406300.00
LOT 1009	819184.86	406599.61	GV20	819173.39	406581.08
LOT 1010	819199.29	406513.86	GV21	819173.03	406580.21
LOT 1011	819208.33	406498.24	SC7	819184.18	406511.88
LOT 1012	819246.96	406474.26	SC8	819391.48	406532.68
LOT 1013	819256.26	406492.89	SC9	819266.22	406576.71
LOT 1014	819264.11	406509.94	SC10	819263.83	406471.18
LOT 1015	819273.19	406528.01	SC11	819170.64	406357.29
LOT 1016	819283.19	406541.59	SC12	819109.69	406286.29
LOT 1017	819250.08	406556.12	SC13	819198.85	406593.58
LOT 1018	819256.65	406566.75			
LOT 1019	819283.97	406591.78			
LOT 1020	819296.67	406593.62			
LOT 1021	819305.99	406559.52			
LOT 1022	819323.19	406566.03			
LOT 1023	819339.59	406570.74			
LOT 1024	819390.29	406533.02			
LOT 1025	819372.46	406552.92			
LOT 1026	819340.52	406552.47			
LOT 1027	819316.29	406545.38			
LOT 1028	819289.87	406522.30			
LOT 1029	819279.54	406502.28			
LOT 1030	819271.69	406485.79			
LOT 1031	819265.05	406471.72			
LOT 1032	819256.89	406435.64			
TOBY 2	819182.89	406406.28			
TOBY 3	819170.65	406389.64			
TOBY 4	819161.06	406374.10			
TOBY 5	819152.82	406357.63			
TOBY 6	819145.24	406340.47			
TOBY 7	819184.41	406458.50			
TOBY 8	819184.32	406459.58			
TOBY 9	819167.31	406569.74			
TOBY 10	819175.07	406587.35			
TOBY 11	819180.77	406597.56			



AMENDMENT	NAME	DATE

- LEGEND:**
- BOUNDARY
 - FUTURE BOUNDARY
 - EXISTING WATER
 - NEW WATER
 - FIRE HYDRANT
 - SILICE VALVE
 - GATE VALVE
 - SCOUR VALVE
 - ACUFLO MANHOLE (PLASTIC COVER)
 - ACUFLO MANHOLE - STEEL COVER

- NOTES:**
- COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
 - ALL #150 AND #100 MAINS ARE mPVC PH12 UNLESS SHOWN OTHERWISE.
 - ALL RIDERS MAINS ARE 6300 MOPE PH12.
 - ALL PRIVATE SERVICE CONNECTIONS ARE 2500 MOPE PH12 UNLESS SHOWN OTHERWISE.
 - MINIMUM COVER ON PIPES IS AS FOLLOWS:
 - MAINS #100 AND GREATER 750mm COVER.
 - RIDER MAINS 600mm COVER IN BERMS AND 750mm COVER IN TRAFFIC'S AREAS.
 - SERVICES PIPES 450mm COVER.
 - ALL RESIDENTIAL SERVICE TOBIES ARE ACUFLO MANHOLES WITH DOUBLE CHECK VALVES.
 - ALL HYDRANTS ARE TALL TYPE HYDRANTS.
 - ALL #50 VALVES ARE TYPE AVK OR HAWLE EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011.
 - ALL #100 OR GREATER VALVES HAVE FLANGED EPOXY COATED DUCTILE IRON WITH A 2.07MPa RATING AND CONFORM TO AS2638:2011.
 - #150, #100 AND #50 VALVES ARE CAST IRON COVERS PAINTED WHITE WITH A MINIMUM OPENING OF 200mm SQUARE. VALVES ARE MARKED WITH A "Y" ETCHED IN KERB.
 - FIRE HYDRANTS HAVE YELLOW PAINTED COVERS WITH YELLOW PAINTED TRIANGLES AND BLUE CATS EYE ON ROAD AND YELLOW PAINTED STRIP ON KERB.



Cuttriss Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

Cuttriss
Land Surveyors, Engineers & Planners

Lower Hutt Branch - Level 3 Crest House, 52 Queens Drive, Lower Hutt
Postal Address - PO Box 50 429, Lower Hutt 5040
Telephone (04) 939 9245 Fax (04) 939 9249 Email hutt@cuttriss.co.nz

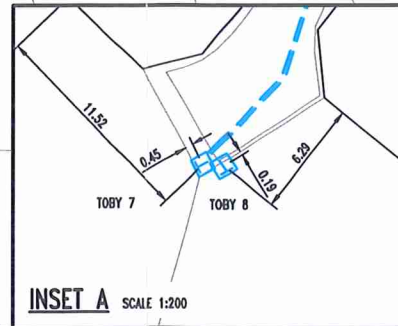
Paparua Branch - 33 Kapiti Road, Paparua
Postal Address - PO Box 308, Paparua 5234
Telephone (04) 694 6420 Fax (04) 694 6423 Email kapiti@cuttriss.co.nz

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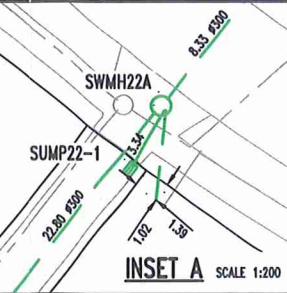
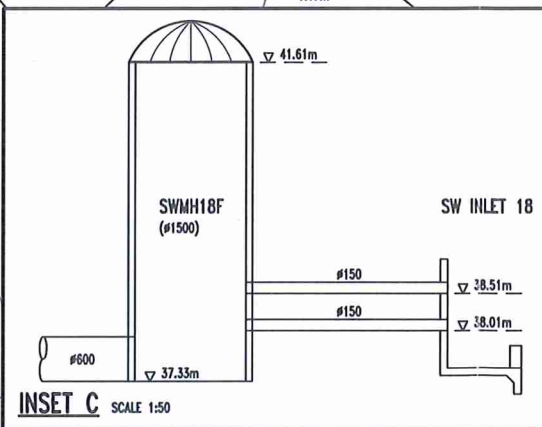
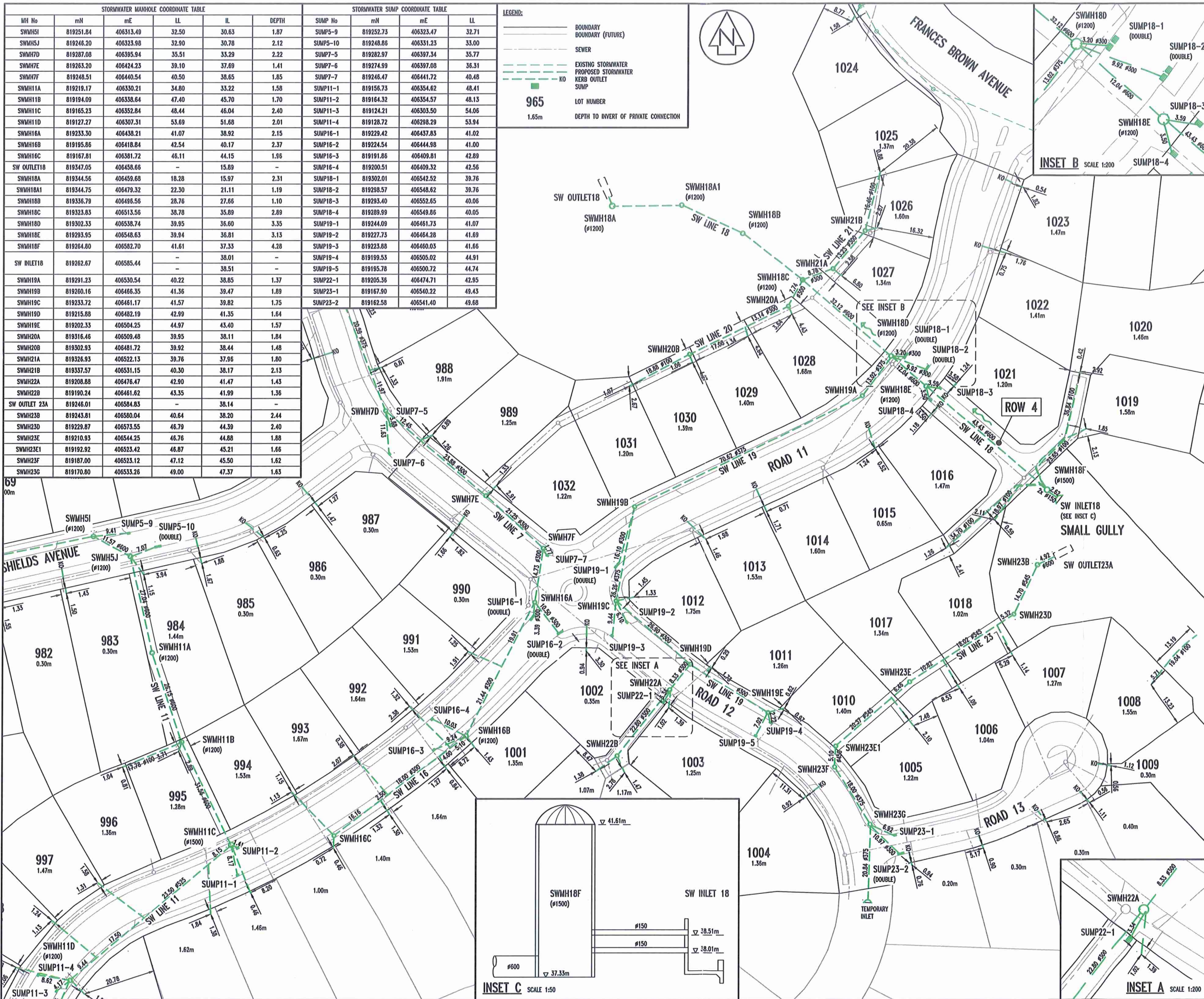
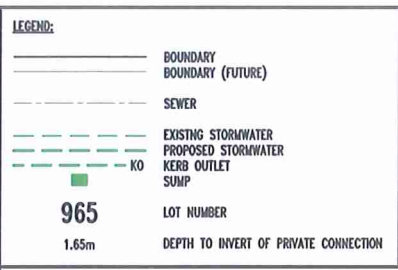
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JOB
AOTEA SUBDIVISION CIVIL WORKS STAGE 12
ASBUILT WATER (SHEET 2 OF 2)

SCALE		SIZE	
1:500	(A3 1:1000)	A1	
FIELDWORK	NAME	DATE	DRAWING NUMBER
DESIGNED	-	-	27512ASBW
DRAWN	KML	03/15	SHEET 2 OF 2 SHEETS
CHECKED	JHM	03/15	REVISION B



STORMWATER MANHOLE COORDINATE TABLE						STORMWATER SUMP COORDINATE TABLE			
MH No	mN	mE	LL	IL	DEPTH	SUMP No	mN	mE	LL
SWMH5I	819251.84	406313.49	32.50	30.63	1.87	SUMP5-9	819252.73	406323.47	32.71
SWMH5J	819248.20	406323.98	32.90	30.78	2.12	SUMP5-10	819248.86	406331.23	33.00
SWMH7D	819287.08	406395.94	35.51	33.29	2.22	SUMP7-5	819282.97	406397.34	35.77
SWMH7E	819263.20	406424.23	39.10	37.69	1.41	SUMP7-6	819274.99	406397.08	36.31
SWMH7F	819248.51	406440.54	40.50	38.65	1.85	SUMP7-7	819246.47	406441.72	40.48
SWMH11A	819219.17	406330.21	34.80	33.22	1.58	SUMP11-1	819156.73	406354.62	48.41
SWMH11B	819194.09	406338.64	47.40	45.70	1.70	SUMP11-2	819164.32	406354.57	48.13
SWMH11C	819165.23	406352.84	48.44	46.04	2.40	SUMP11-3	819124.21	406303.50	54.06
SWMH11D	819127.27	406307.31	53.69	51.68	2.01	SUMP11-4	819128.72	406298.29	53.94
SWMH16A	819233.30	406438.21	41.07	38.92	2.15	SUMP16-1	819229.42	406437.83	41.02
SWMH16B	819195.86	406418.84	42.54	40.17	2.37	SUMP16-2	819224.54	406444.98	41.00
SWMH16C	819167.81	406381.72	46.11	44.15	1.96	SUMP16-3	819191.86	406409.81	42.89
SW OUTLET18	819347.05	406458.66	-	15.89	-	SUMP16-4	819200.51	406409.32	42.56
SWMH18A	819344.56	406459.68	18.28	15.97	2.31	SUMP18-1	819302.01	406542.52	39.76
SWMH18A1	819344.75	406479.32	22.30	21.11	1.19	SUMP18-2	819298.57	406548.62	39.76
SWMH18B	819336.79	406496.56	28.76	27.66	1.10	SUMP18-3	819293.40	406552.65	40.06
SWMH18C	819323.83	406513.56	38.78	35.89	2.89	SUMP18-4	819289.99	406549.86	40.05
SWMH18D	819302.33	406538.74	39.95	36.60	3.35	SUMP19-1	819244.09	406461.73	41.07
SWMH18E	819293.95	406548.63	39.94	36.81	3.13	SUMP19-2	819227.73	406464.28	41.69
SWMH18F	819264.80	406582.70	41.61	37.33	4.28	SUMP19-3	819223.88	406460.03	41.66
SW INLET18	819262.67	406585.44	-	38.01	-	SUMP19-4	819199.53	406505.02	44.91
SWMH19A	819291.23	406530.54	40.22	38.85	1.37	SUMP19-5	819195.78	406500.72	44.74
SWMH19B	819260.16	406466.35	41.36	39.47	1.89	SUMP22-1	819205.36	406474.71	42.95
SWMH19C	819233.72	406461.17	41.57	39.82	1.75	SUMP23-1	819162.58	406541.40	49.88
SWMH19D	819215.88	406482.19	42.99	41.35	1.64				
SWMH19E	819202.33	406504.25	44.97	43.40	1.57				
SWMH20A	819316.46	406509.48	39.95	38.11	1.84				
SWMH20B	819302.93	406481.72	39.92	38.44	1.48				
SWMH21A	819326.93	406522.13	39.76	37.96	1.80				
SWMH21B	819337.57	406531.15	40.30	38.17	2.13				
SWMH22A	819208.88	406476.47	42.90	41.47	1.43				
SWMH22B	819190.24	406461.62	43.35	41.99	1.36				
SW OUTLET 23A	819246.01	406584.83	-	38.14	-				
SWMH23B	819243.81	406580.04	40.64	38.20	2.44				
SWMH23D	819229.87	406573.55	46.79	44.39	2.40				
SWMH23E	819210.93	406544.25	46.76	44.88	1.88				
SWMH23E1	819192.92	406523.42	46.87	45.21	1.66				
SWMH23F	819187.00	406523.12	47.12	45.50	1.62				
SWMH23G	819170.80	406533.26	49.00	47.37	1.63				



AMENDMENT	NAME	DATE
A	STAGE 12B DATA ADDED	KML 11/15
B	STAGE 12C DATA ADDED	KML 07/16

- NOTES:**
- ALL LEVELS ARE IN TERMS OF MEAN SEA LEVEL WELLINGTON DATUM 1953.
 - COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
 - STAKES ARE PLACED AT THE TERMINATION POINT OF ALL PRIVATE STORMWATER CONNECTIONS.
 - ALL ROAD SUMPS ARE TO PCC STANDARDS.
 - PROPRIETARY GALVANISED DUCTILE IRON KERB ADAPTERS USED FOR SW CONNECTIONS TO KERB.
 - POSITIONS OF PRIVATE CONNECTIONS BASED ON INFORMATION PROVIDED BY CONTRACTOR.
 - ALL DIMENSIONS SHOWN ARE HORIZONTAL IN METRES.
 - THE DEPTH TO INVERT OF PRIVATE CONNECTIONS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND TAKEN FROM GROUND LEVEL AT TIME OF COMPLETION OF THE SUBDIVISION. CONNECTIONS TO BE LOCATED ON SITE PRIOR TO DETAILED DESIGN.

- MANHOLES:**
- ALL MANHOLES ARE PRECAST CONCRETE WITH WEBFORGE HEAVY DUTY CLASS D HINGED LID.
 - ALL MANHOLES ARE #1050 UNLESS SHOWN OTHERWISE.
- PIPE WORK:**
- ALL PRIVATE LATERALS ARE #100 uPVC SW16.
 - ALL PIPE #225-#375 BOSS PIPE.
 - ALL PIPE #375 RCRRJ CLASS 2.
 - ALL SINGLE SUMP LEADS #225 UNLESS SHOWN OTHERWISE.
 - ALL DOUBLE SUMP LEADS #300 UNLESS SHOWN OTHERWISE.
- SCALE 1:500

Cuttriss Consultants Limited
Hutt Valley, Wellington, Kapiti Coast

Land Surveyors, Engineers & Planners

Lower Hutt Branch - Level 3 Great House, 92 Queens Drive, Lower Hutt
Postal Address - PO Box 59 423, Lower Hutt 5040
Telephone (04) 939 9246 Fax (04) 939 9219 Email hutt@cuttriss.co.nz

Paparua Branch - 33 Kapiti Road, Paparua
Postal Address - PO Box 310, Paparua 5254
Telephone (04) 904 6420 Fax (04) 904 6423 Email kapiti@cuttriss.co.nz

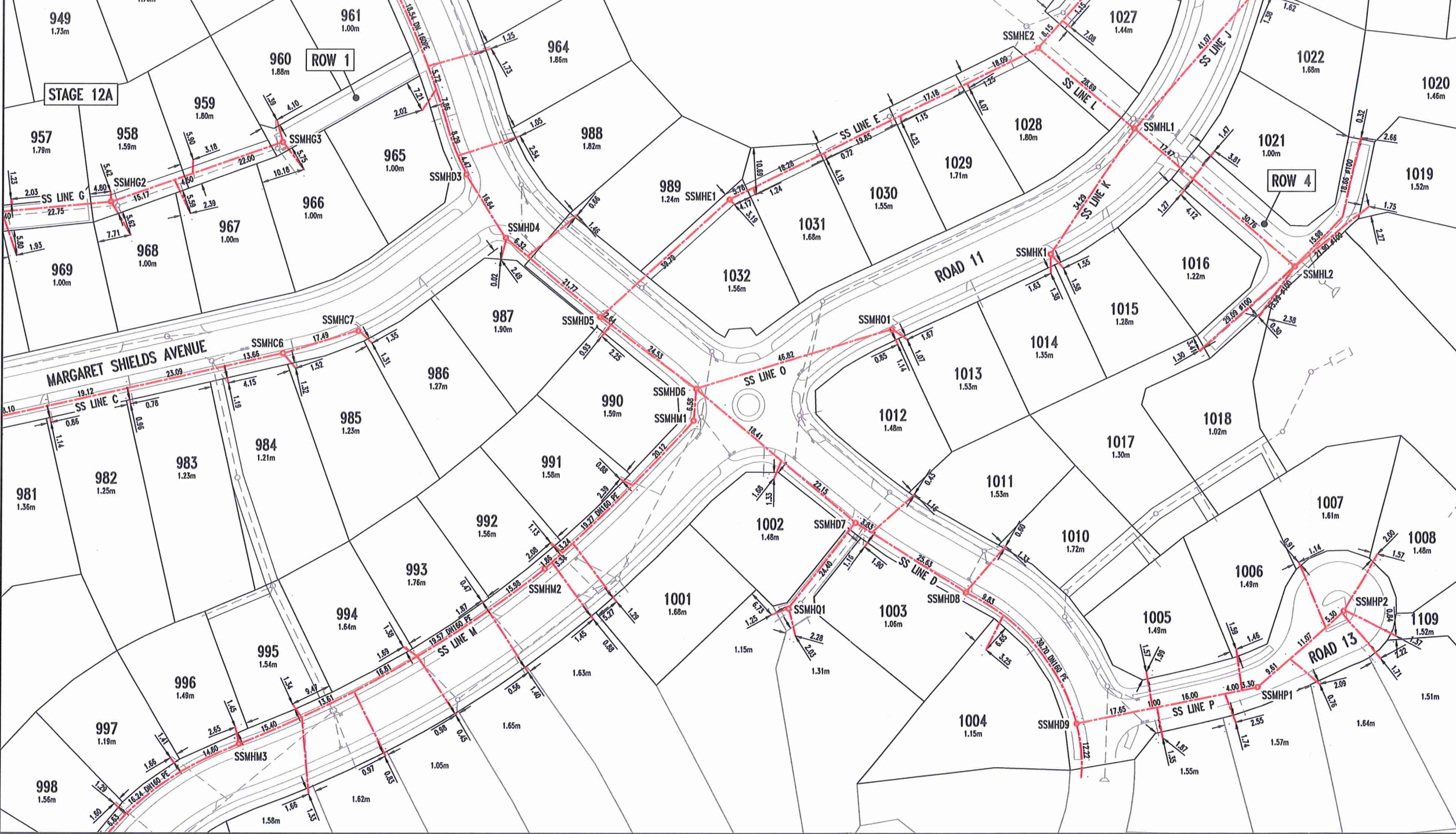
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JOB
AOTEA
SUBDIVISION CIVIL WORKS
STAGE 12
ASBUILT STORMWATER
(SHEET 2 OF 2)

SCALE	1:500 (A3 1:1000)	SIZE	A1
FIELDWORK	KDC	DATE	03/15
DESIGNED	-		
DRAWN	KML	DATE	03/15
CHECKED	JHM	DATE	03/15
DRAWING NUMBER		27512ASBSW	
SHEET		2 OF 2 SHEETS	
REVISION		B	

SEWER MANHOLE COORDINATE TABLE					
MH No	mH	mE	LL	IL	DEPTH
SSMHC6	819248.01	406340.62	33.54	32.45	1.00
SSMHC7	819253.15	406358.17	34.09	33.00	1.09
SSMHD3	819289.41	406383.07	34.78	32.93	1.85
SSMHD4	819274.77	406392.34	36.04	34.09	1.95
SSMHD5	819256.36	406414.58	38.88	36.96	1.92
SSMHD6	819239.77	406436.95	40.68	38.40	2.28
SSMHD7	819208.82	406474.36	42.90	41.07	1.83
SSMHD8	819192.69	406499.98	45.06	43.28	1.78
SSMHD9	819162.32	406526.05	49.55	47.62	1.93
SSMHE1	819283.70	406444.49	39.07	37.40	1.67
SSMHE2	819318.77	406516.25	39.16	37.92	1.24
SSMHE3	819336.92	406532.54	40.33	38.99	1.34
SSMHG2	819283.05	406300.34	29.54	27.73	1.81
SSMHG3	819296.85	406340.36	30.50	28.57	1.93
SSMHJ1	819331.58	406566.43	41.27	39.67	1.60
SSMHK1	819271.02	406519.42	40.87	39.60	1.27
SSMHL1	819300.08	406538.93	39.94	38.37	1.57
SSMHL2	819268.13	406576.22	42.46	40.43	2.03
SSMHM1	819232.40	406436.39	41.15	39.25	1.90
SSMHM2	819198.13	406401.86	43.28	41.28	2.00
SSMHM3	819157.49	406330.88	50.52	48.85	1.67
SSMH01	819253.62	406482.45	41.42	40.03	1.39
SSMHP1	819170.77	406567.88	50.21	48.44	1.77
SSMHP2	819188.45	406588.27	50.79	49.06	1.73
SSMHQ1	819188.95	406458.76	43.40	42.16	1.24



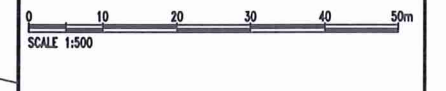
AMENDMENT	NAME	DATE
A	STAGE 12B DATA ADDED	KML 11/15
B	STAGE 12C DATA ADDED	KML 07/16

- LEGEND:**
- BOUNDARY
 - - - BOUNDARY (FUTURE STAGE)
 - EXISTING SEWER
 - - - NEW SEWER
 - STORMWATER SUMP
 - 865 LOT NUMBER
 - 1.65m DEPTH TO INVERT OF PRIVATE CONNECTION

- NOTES:**
- ALL LEVELS ARE IN TERMS OF MEAN SEA LEVEL WELLINGTON DATUM 1955.
 - COORDINATES ARE IN TERMS OF NZGD 2000, WELLINGTON CIRCUIT.
 - MARKER STAKES PLACED AT THE TERMINATION POINT OF ALL PRIVATE SEWER CONNECTIONS.
 - POSITIONS OF PRIVATE CONNECTIONS BASED ON INFORMATION PROVIDED BY CONTRACTOR.
 - ALL DIMENSIONS SHOWN ARE HORIZONTAL IN METRES.
 - THE DEPTH TO INVERT OF PRIVATE CONNECTIONS IS BASED ON INFORMATION PROVIDED BY THE CONTRACTOR AND TAKEN FROM GROUND LEVEL AT TIME OF COMPLETION OF THE SUBDIVISION. CONNECTIONS TO BE LOCATED ON SITE PRIOR TO DETAILED DESIGN.

- MANHOLES:**
- ALL MANHOLES ARE PRECAST CONCRETE WITH WEBFORGE HEAVY DUTY CLASS D HINGED LID.
 - ALL MANHOLES ARE #1050 UNLESS SHOWN OTHERWISE.

- PIPE WORK:**
- ALL SEWER MAINS ARE #150 uPVC SN16 UNLESS SHOWN AS DN160 PE.
 - ALL PRIVATE LATERALS ARE #100 uPVC SN16.



Cuttriss Consultants Limited
 Hutt Valley, Wellington, Kapiti Coast

Cuttriss
 Land Surveyors, Engineers & Planners

Lower Hutt Branch - Level 3 Crest House, 92 Queens Drive, Lower Hutt
 Postal Address - PO Box 59 419, Lower Hutt 5040
 Telephone (04) 939 9245 Fax (04) 939 9249 Email hutt@cuttriss.co.nz

Panoramic Branch - 30 Kapiti Road, Panoramau
 Postal Address - PO Box 305, Panoramau 5054
 Telephone (04) 904 5420 Fax (04) 904 5423 Email kap@cuttriss.co.nz

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JOB
AOTEA SUBDIVISION CIVIL WORKS STAGE 12
ASBUILT SEWER (SHEET 2 OF 2)

SCALE	1:500 (A3 1:1000)	SIZE	A1
FIELDWORK	KDG 03/15	DRAWING NUMBER 27512ASBSS	
DESIGNED	-	SHEET 2 OF 2 SHEETS	
DRAWN	KML 03/15	REVISION	B
CHECKED	JHM 03/15		