

AMENDMENTS:		
AMENDMENT	DATE	DESCRIPTION

NOTES:

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- ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
- ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.
- ALL UPVVC PIPES (WHETHER SEWER OR STORMWATER) SHALL CONFORM TO AS NZS 1260:1999 AND SHALL HAVE THE FOLLOWING STIFFNESS NUMBERS AS SET OUT IN THE STANDARD: DN 100 AND 150...SN16; DN225 AND LARGER ... SN8.
- ALL SERVICES UP DRIVEWAYS & ROWs TO BE INSTALLED BY A REGISTERED DRAIN LAYER AND IN TERMS OF THE BUILDING CONSENT.
- REFER TO LONGSECTIONS FOR ALL STORMWATER LEVELS.
- ORIGIN OF LEVELS
BM.3293[EAAI]
RL = 23.77.

LOCATED AT THE CORNER OF HALSWELL ROAD AND WILLIAM BRITANN AVENUE

LEVELS IN TERMS OF CHRISTCHURCH DRAINAGE DATUM 2019 LEVELS.
- ALL STORMWATER LATERALS TO BE LAID AT 1:60. MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
- NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.
- ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.
- RAMPED RISERS ARE TO BE USED FOR LATERALS TO ENSURE A MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
- BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.
- STORMWATER PIPE WORK TO HAVE SUFFICIENT COVER IN ACCORDANCE WITH CCC STANDARDS.
- ALL SUMPS TO HAVE CCC CYCLE SAFE GRATES.
- STORMWATER LATERALS TO HAVE A MINIMUM 1m CLEARANCE FROM SEWER LATERALS LOT FRONTAGE PERMITTING.
- TRAPPED SUMPS TO BE IN ACCORDANCE WITH SD329.
- ALL CONCRETE PIPE JOINTS TO BE WRAPPED.

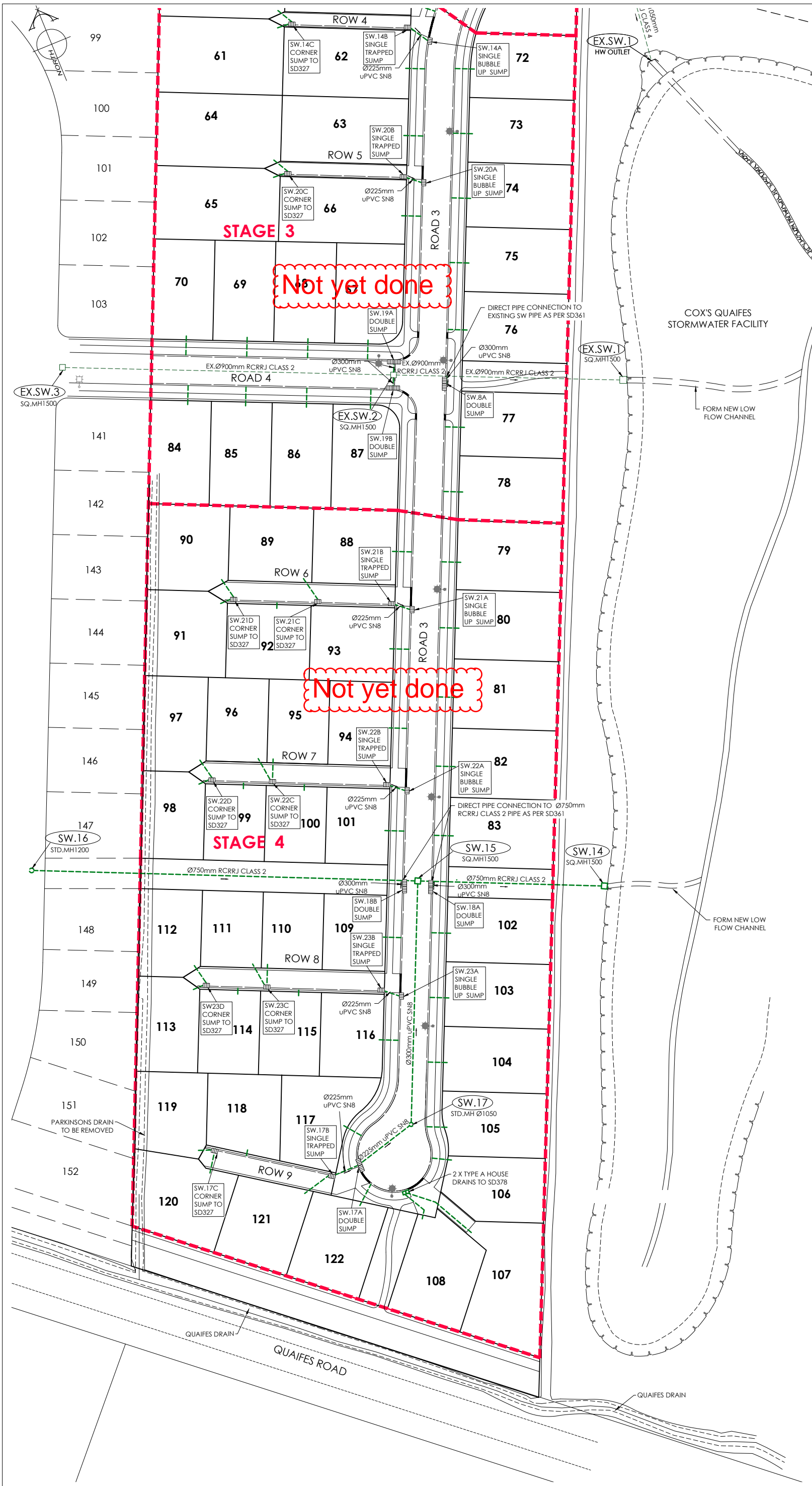
Christchurch City Council Page 1 of 6
RMA/2021/2098
 Accepted Engineering Plans
 29/04/2022 Megarry, Peter

LEGEND:			
PROPOSED STREET LIGHT	EXISTING STREET LIGHT		
EXISTING SERVICES	PROPOSED SERVICES		
STORMWATER	STORMWATER		
KERB	KERB		
DESIGNED BY	NAME	SIGNED	DATE
CHECKED BY			

PLANNING SURVEYING ENGINEERING

116 Wrights Road P O Box 679 Christchurch 8140. New Zealand
 Telephone: 03 379-0793 Website: www.dls.co.nz E-mail: office@dls.co.nz

JOB TITLE:	
Quifes Farm Stages 1 - 4	
SHEET TITLE:	
Stormwater Plan RMA/2021/2098	
DRAWING STATUS:	
For Engineering Approval	
SCALE: 1:500@A1 1:1000@A3	DATE: January 2022
CAD FILE: J:\20083\ENG\Drawings\STGS 1-4\E20083 STGS 1-4 E01_0_R0.dwg	DRAWN: DG
DRAWING No: E.20083.STGS1-4 E04.4	REVISION: R0



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


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LOCATED AT THE CORNER OF HALSWELL ROAD AND WILLIAM BRITTAN AVENUE

LEVELS IN TERMS OF CHRISTCHURCH DRAINAGE DATUM 2019 LEVELS.

8. ALL STORMWATER LATERALS TO BE LAID AT 1:60, MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
9. NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.
10. ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.
11. RAMPED RISERS ARE TO BE USED FOR LATERALS TO ENSURE A MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
12. BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.
13. STORMWATER PIPE WORK TO HAVE SUFFICIENT COVER IN ACCORDANCE WITH CCC STANDARDS.
14. ALL SUMPS TO HAVE CCC CYCLE SAFE GRATES.
15. STORMWATER LATERALS TO HAVE A MINIMUM 1m CLEARANCE FROM SEWER LATERALS LOT FRONTAGE PERMITTING.
16. TRAPPED SUMPS TO BE IN ACCORDANCE WITH SD329.
17. ALL CONCRETE PIPE JOINTS TO BE WRAPPED.

Christchurch City Council  Page 2 of 6
RMA/2021/2098
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 29/04/2022 Megarry, Peter

LEGEND:		
PROPOSED STREET LIGHT		EXISTING STREET LIGHT
EXISTING SERVICES		PROPOSED SERVICES
STORMWATER		STORMWATER
KERB		CUT DOWN
DESIGNED BY	NAME	SIGNED
CHECKED BY	NAME	DATE


DAVIE LOVELL-SMITH
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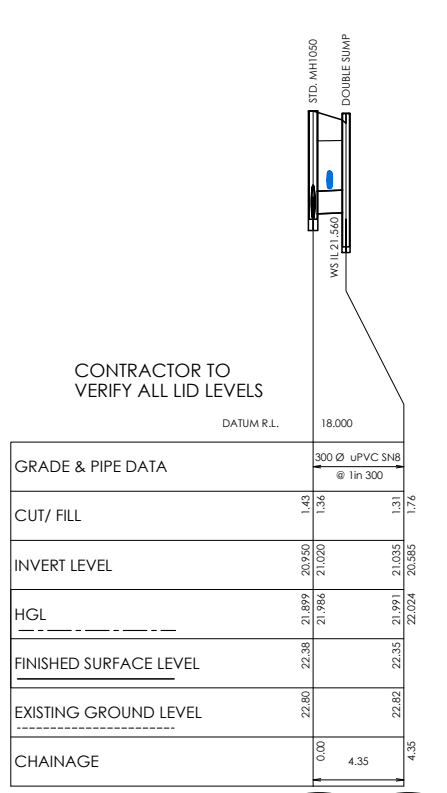
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Quaiques Farm Stages 1 - 4

SHEET TITLE:
Stormwater Plan RMA/2021/2098

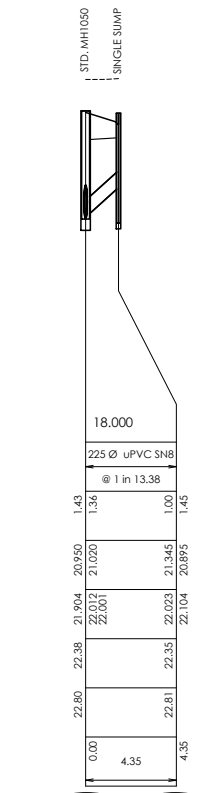
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For Engineering Approval

SCALE: 1:500@A1 DATE: January 2022
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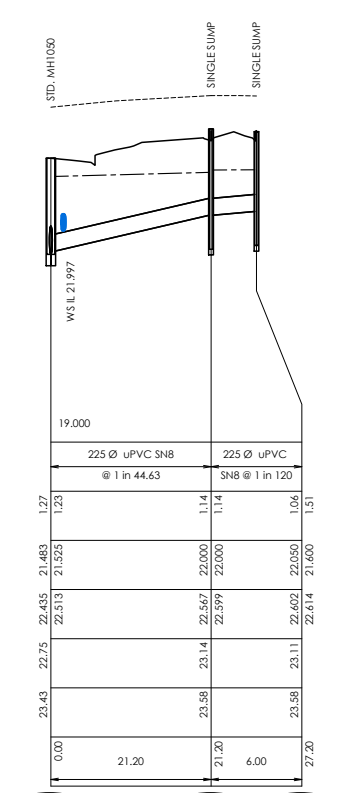
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 DRAWING No: SHEET No: REVISION:
E.20083.STGS1-4 E04.5 R0



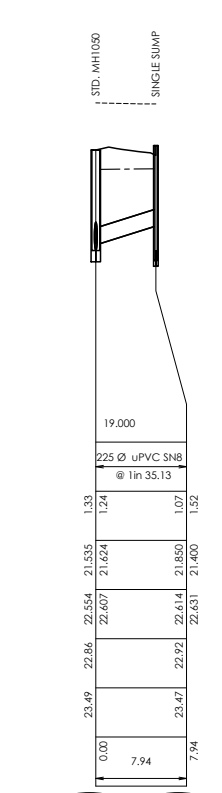
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1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3



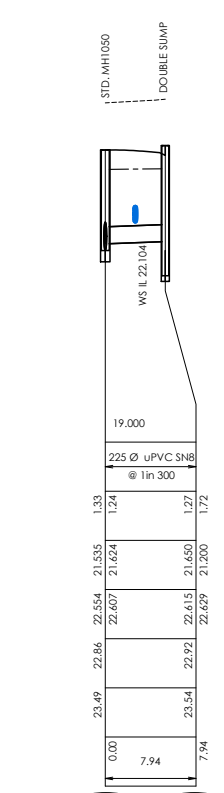
SW LONGSECTION
SW.1 TO SW.1B
Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3



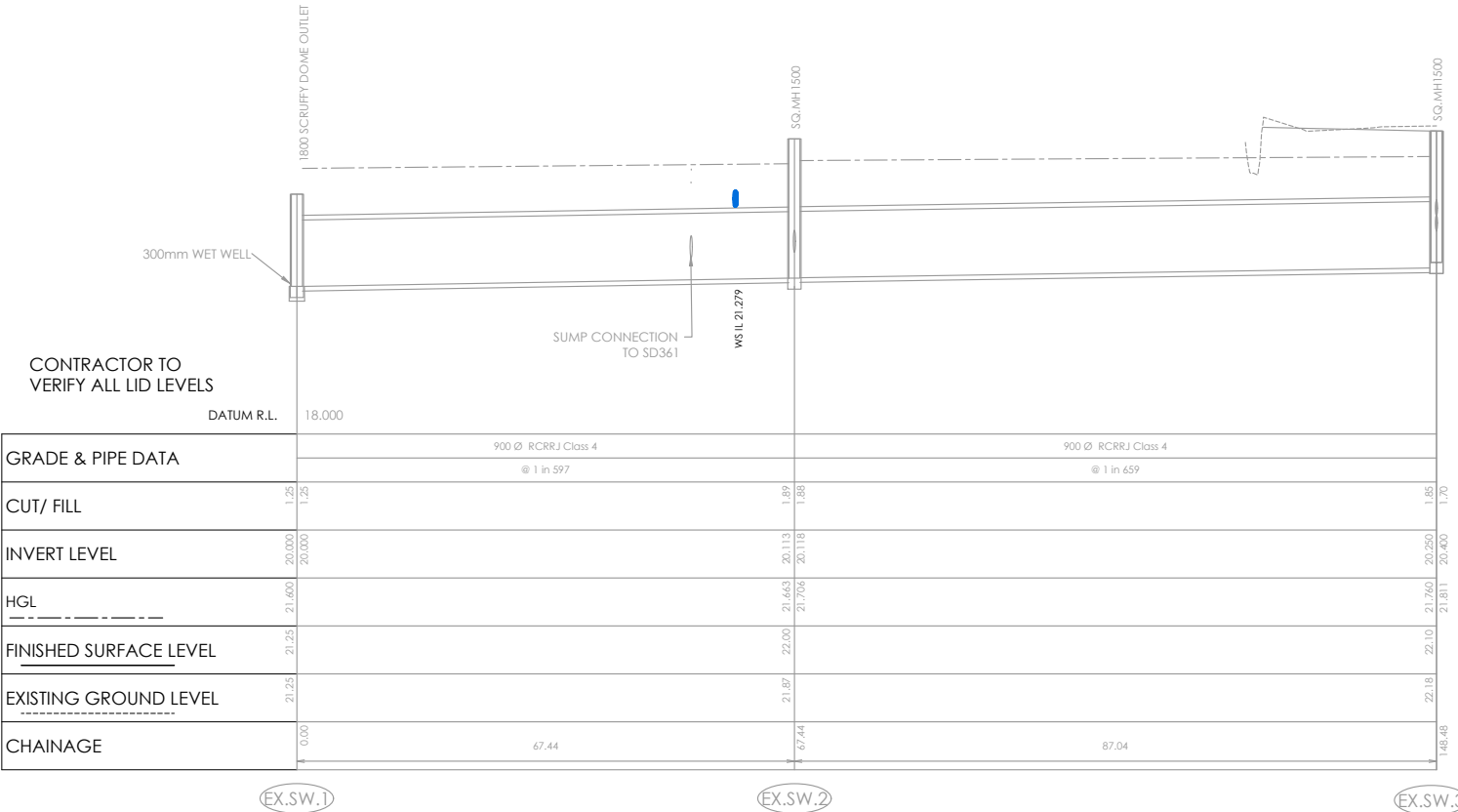
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SW.4 TO SW.4B
Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3



SW LONGSECTION
SW.5 TO SW.5A
Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

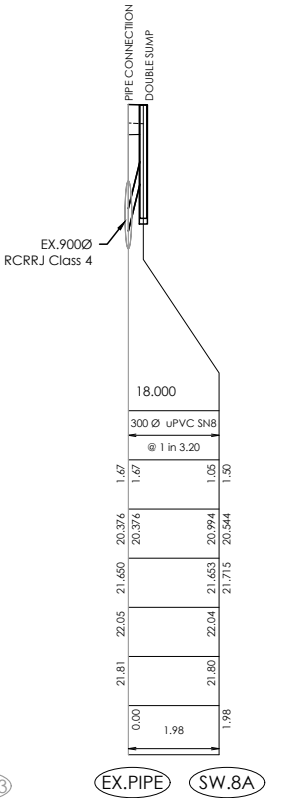


SW LONGSECTION
SW.5 TO SW.5B
Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

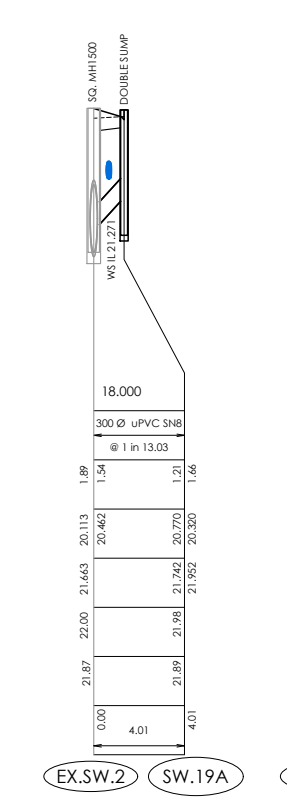


SW LONGSECTION
EX.SW.1 TO EX.SW.3
SCALE 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

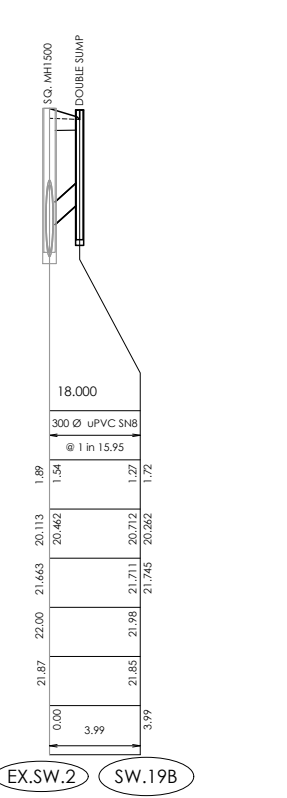
W. H. H. H.
26/01/2023



SW LONGSECTION
EX.PIPE TO SW.8A
Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3



SW LONGSECTION
EX.SW.2 TO SW.19A
Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3



SW LONGSECTION
EX.SW.2 TO SW.19B
Scale 1:500 Horiz @A1
1:50 Vert @A1
1:1000 Horiz @A3
1:100 Vert @A3

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RMA/2021/2098
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29/04/2022
Megarry, Peter

NAME	SIGNED	DATE
DESIGNED BY DEEPANSHU GROVER		
CHECKED BY ANDY HALL		

DAVIE LOVELL-SMITH
PLANNING SURVEYING ENGINEERING

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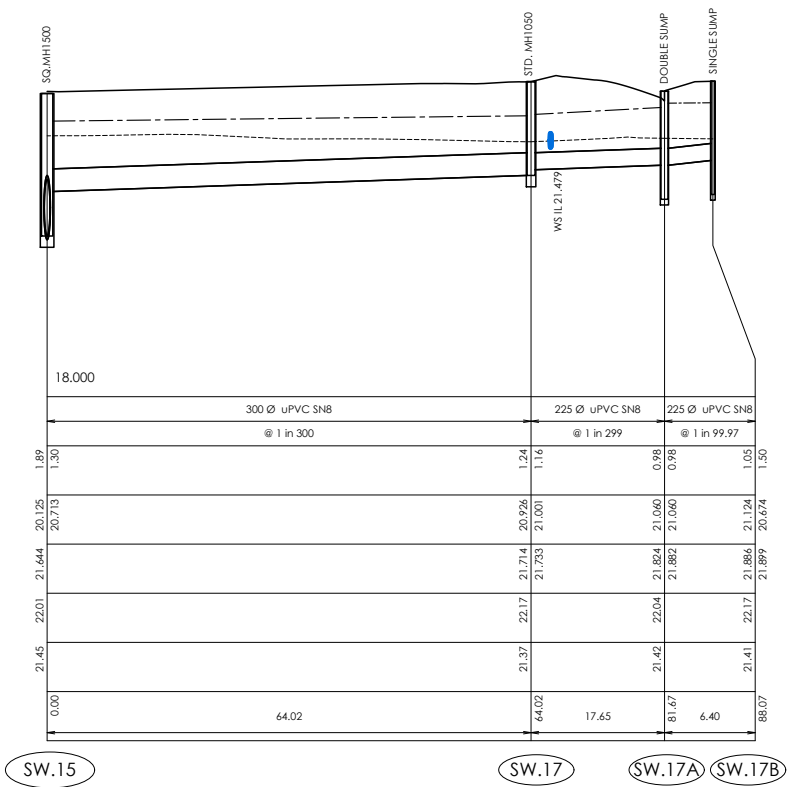
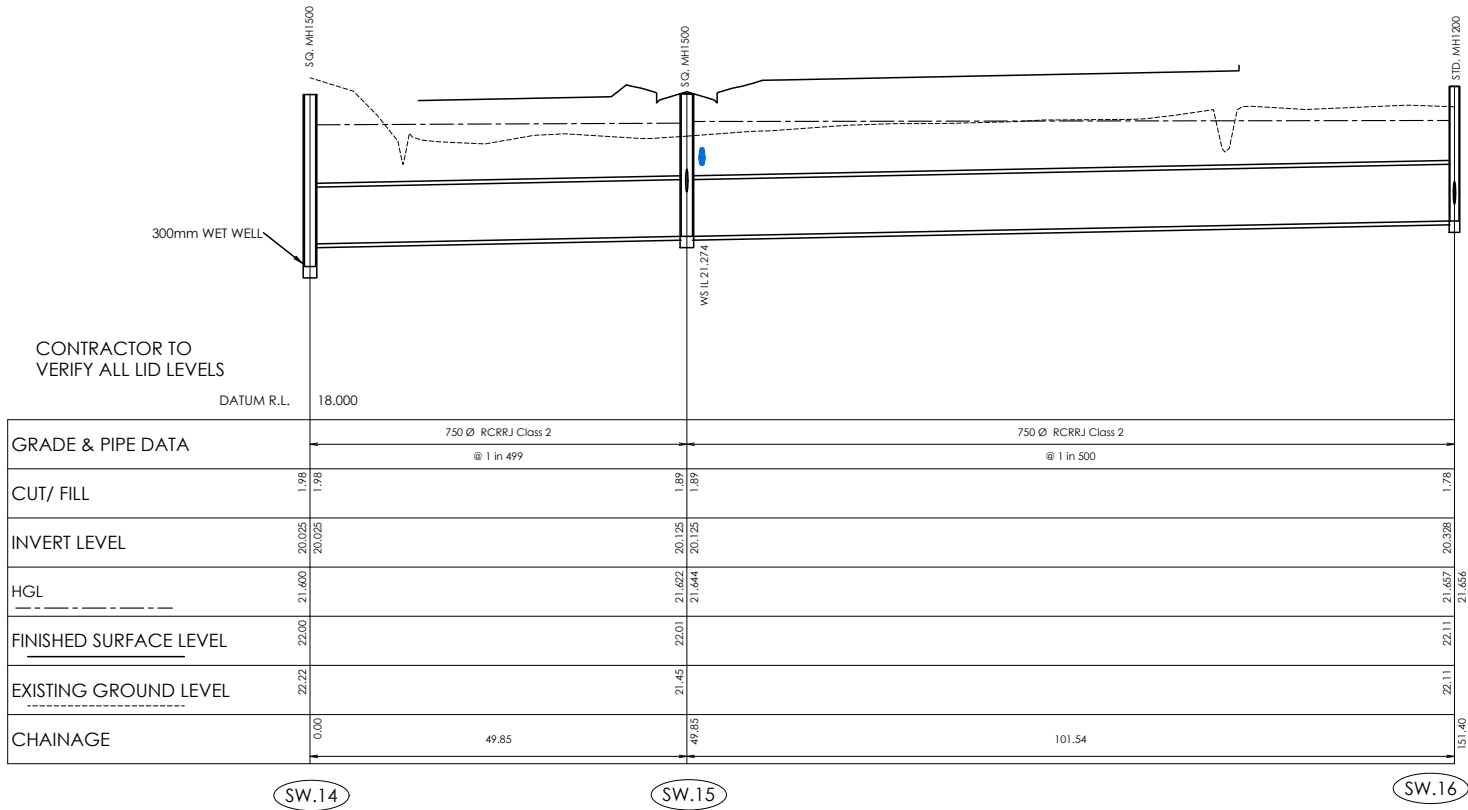
JOB TITLE:
Quaifes Farm Stages 1 - 4

SHEET TITLE:
Stormwater Longsections RMA/2021/2098

DRAWING STATUS
For Engineering Approval

SCALE: As Shown DATE: January 2022

CAD FILE	DRAWN
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DRAWING No:	REVISION:
E.20083	E04.7 R0

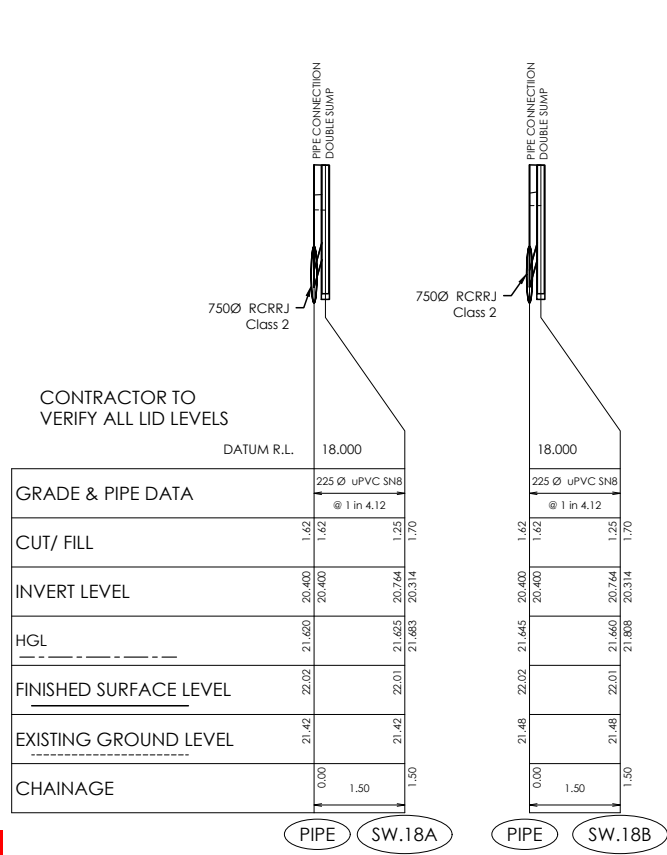


**SW LONGSECTION
SW.14 TO SW.16**

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz
1:100 Vert @A3

**SW LONGSECTION
SW.15 TO SW.17B**

Scale 1:500 Horiz
1:50 Vert @A1
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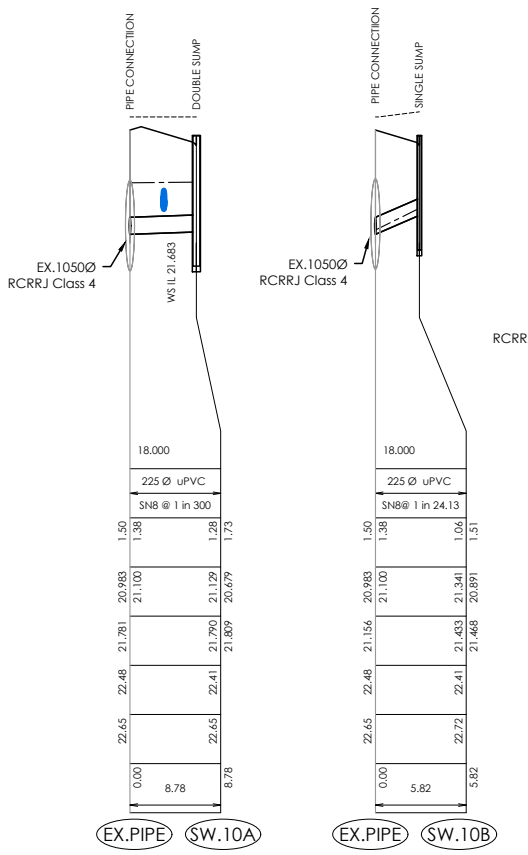


**SW LONGSECTION
PIPE TO SW.18A**

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz
1:100 Vert @A3

**SW LONGSECTION
PIPE TO SW.18B**

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz
1:100 Vert @A3

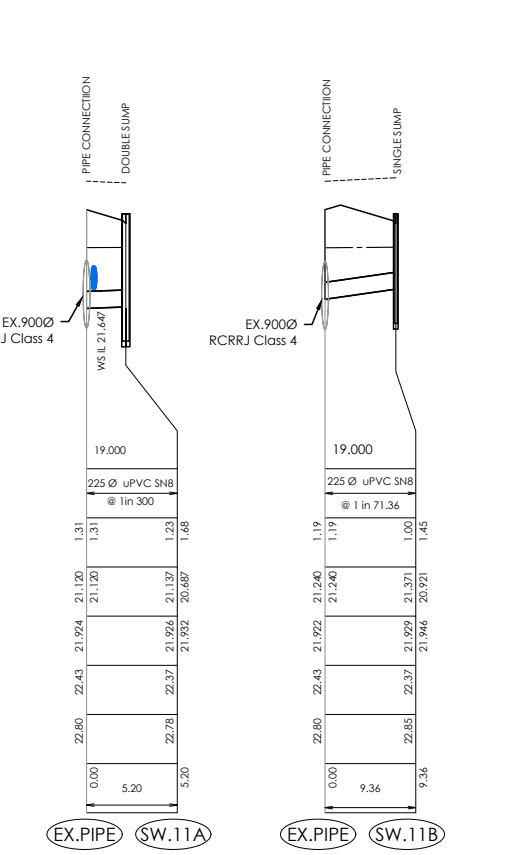


**SW LONGSECTION
EX.PIPE TO SW.10A**

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz
1:100 Vert @A3

**SW LONGSECTION
EX.PIPE TO SW.10B**

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz
1:100 Vert @A3



**SW LONGSECTION
EX.PIPE TO SW.11A**

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz
1:100 Vert @A3

**SW LONGSECTION
EX.PIPE TO SW.11B**

Scale 1:500 Horiz
1:50 Vert @A1
1:1000 Horiz
1:100 Vert @A3

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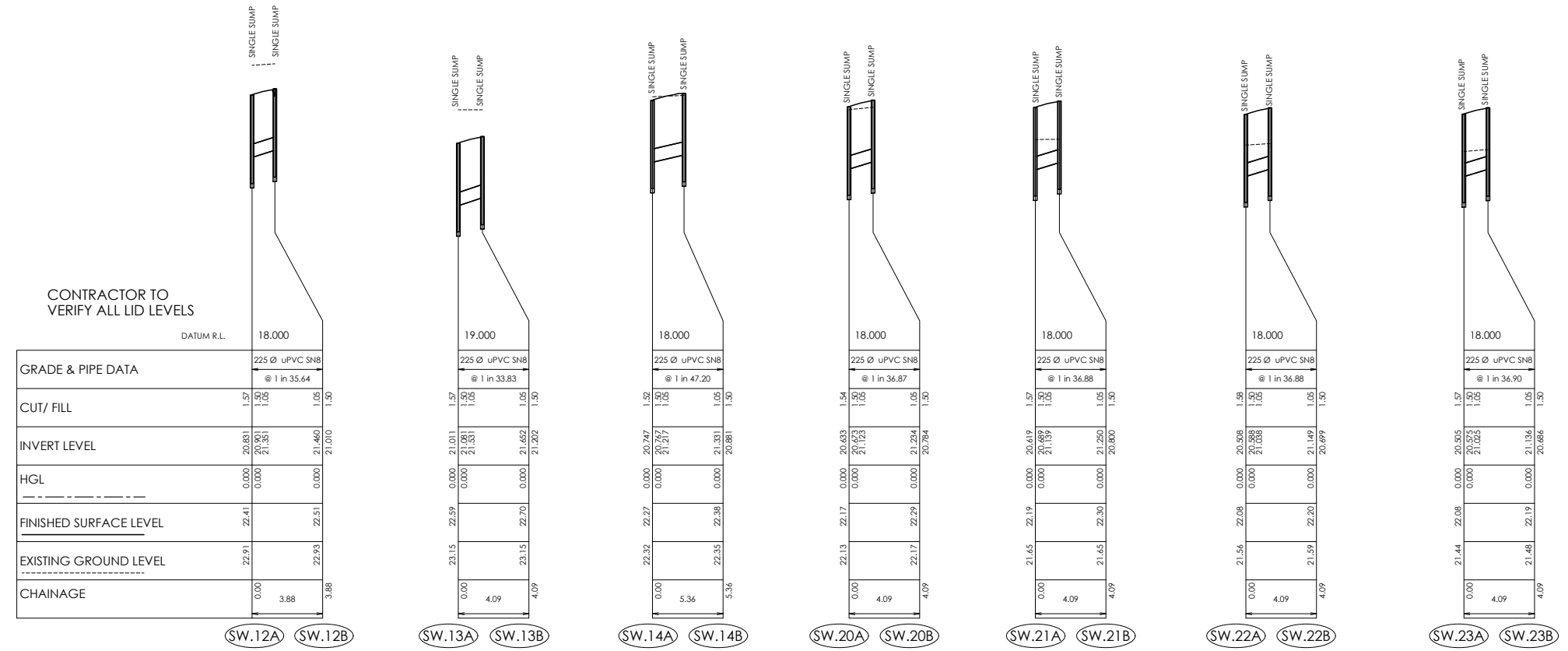
SHEET TITLE:
**Stormwater Longsections
 RMA/2021/2098**

DRAWING STATUS
For Engineering Approval

SCALE : As Shown DATE : January 2022

CAD FILE	SHEET No :	REVISION :
\\21\20083\ENG\Drawings\STGS 1-4\E20083 STGS 1-4 E04.6_R0.dwg	E.20083	E04.8
		RO

Ullave
 26/01/2023



CONTRACTOR TO VERIFY ALL LID LEVELS

	SW.12A	SW.12B	SW.13A	SW.13B	SW.14A	SW.14B	SW.20A	SW.20B	SW.21A	SW.21B	SW.22A	SW.22B	SW.23A	SW.23B
DATUM R.L.	18.000	18.000	19.000	19.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000	18.000
GRADE & PIPE DATA	225 Ø uPVC SN8 @ 1 in 35.64	225 Ø uPVC SN8 @ 1 in 35.64	225 Ø uPVC SN8 @ 1 in 33.83	225 Ø uPVC SN8 @ 1 in 33.83	225 Ø uPVC SN8 @ 1 in 47.20	225 Ø uPVC SN8 @ 1 in 47.20	225 Ø uPVC SN8 @ 1 in 36.87	225 Ø uPVC SN8 @ 1 in 36.87	225 Ø uPVC SN8 @ 1 in 36.88	225 Ø uPVC SN8 @ 1 in 36.88	225 Ø uPVC SN8 @ 1 in 36.88	225 Ø uPVC SN8 @ 1 in 36.88	225 Ø uPVC SN8 @ 1 in 36.90	225 Ø uPVC SN8 @ 1 in 36.90
CUT/ FILL	1.57 1.50 1.05	1.57 1.50 1.05	1.57 1.50 1.05	1.57 1.50 1.05	1.52 1.50 1.05	1.52 1.50 1.05	1.54 1.50 1.05	1.54 1.50 1.05	1.57 1.50 1.05	1.57 1.50 1.05	1.57 1.50 1.05	1.57 1.50 1.05	1.57 1.50 1.05	1.57 1.50 1.05
INVERT LEVEL	20.831 20.701 21.031	20.831 20.701 21.031	21.011 21.081 21.131	21.011 21.081 21.131	20.747 20.767 21.217	20.747 20.767 21.217	20.633 20.713 21.163	20.633 20.713 21.163	20.619 20.689 21.159	20.619 20.689 21.159	20.608 20.688 21.149	20.608 20.688 21.149	20.505 20.575 21.025	20.505 20.575 21.025
HGL	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000	0.000 0.000 0.000
FINISHED SURFACE LEVEL	22.41 22.91	22.41 22.91	22.59 23.15	22.59 23.15	22.27 22.32	22.27 22.32	22.17 22.13	22.17 22.13	22.20 21.65	22.20 21.65	22.20 21.56	22.20 21.56	22.08 21.44	22.08 21.44
EXISTING GROUND LEVEL	22.93 22.93	22.93 22.93	23.15 23.15	23.15 23.15	22.35 22.35	22.35 22.35	22.17 22.17	22.17 22.17	21.65 21.65	21.59 21.59	21.59 21.59	21.59 21.59	21.48 21.48	21.48 21.48
CHAINAGE	0.00 3.88	0.00 3.88	0.00 4.09	0.00 4.09	0.00 5.36	0.00 5.36	0.00 4.09	0.00 4.09	0.00 4.09	0.00 4.09	0.00 4.09	0.00 4.09	0.00 4.09	0.00 4.09

SW LONGSECTION SW.12A TO SW.12B Scale 1:500 Horiz @A1, 1:50 Vert @A1, 1:1000 Horiz @A3, 1:100 Vert @A3

SW LONGSECTION SW.13A TO SW.13B Scale 1:500 Horiz @A1, 1:50 Vert @A1, 1:1000 Horiz @A3, 1:100 Vert @A3

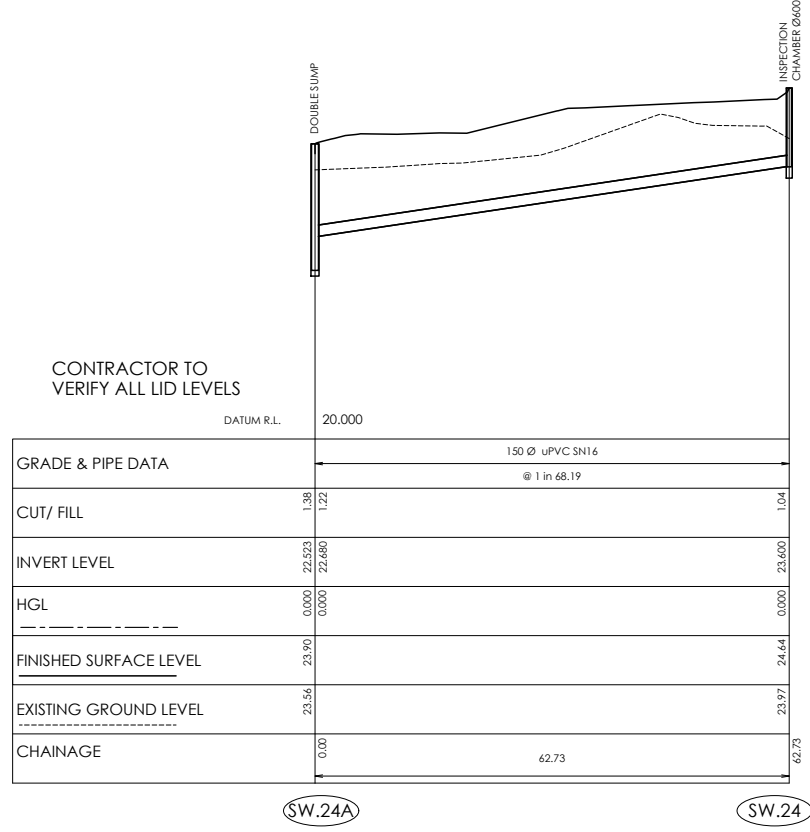
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SW LONGSECTION SW.20A TO SW.20B Scale 1:500 Horiz @A1, 1:50 Vert @A1, 1:1000 Horiz @A3, 1:100 Vert @A3

SW LONGSECTION SW.21A TO SW.21B Scale 1:500 Horiz @A1, 1:50 Vert @A1, 1:1000 Horiz @A3, 1:100 Vert @A3

SW LONGSECTION SW.22A TO SW.22B Scale 1:500 Horiz @A1, 1:50 Vert @A1, 1:1000 Horiz @A3, 1:100 Vert @A3

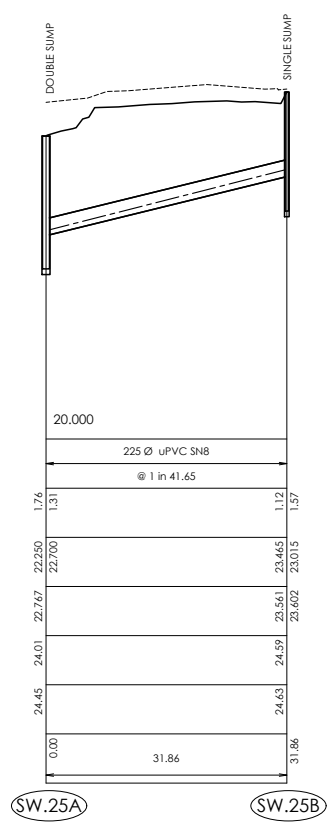
SW LONGSECTION SW.23A TO SW.23B Scale 1:500 Horiz @A1, 1:50 Vert @A1, 1:1000 Horiz @A3, 1:100 Vert @A3



CONTRACTOR TO VERIFY ALL LID LEVELS

	SW.24A	SW.24B
DATUM R.L.	20.000	20.000
GRADE & PIPE DATA	150 Ø uPVC SN16 @ 1 in 68.19	150 Ø uPVC SN16 @ 1 in 68.19
CUT/ FILL	1.98 1.22	1.98 1.22
INVERT LEVEL	0.000 23.523 22.680	0.000 23.523 22.680
HGL	0.000 0.000 0.000	0.000 0.000 0.000
FINISHED SURFACE LEVEL	23.90 23.56	24.44 23.97
EXISTING GROUND LEVEL	23.56 23.56	23.97 23.97
CHAINAGE	0.00 62.73	0.00 62.73

SW LONGSECTION SW.24A TO SW.24B Scale 1:500 Horiz @A1, 1:50 Vert @A1, 1:1000 Horiz @A3, 1:100 Vert @A3



SW LONGSECTION SW.25A TO SW.25B Scale 1:500 Horiz @A1, 1:50 Vert @A1, 1:1000 Horiz @A3, 1:100 Vert @A3

W. Hae
26/01/2023

AMENDMENT	DATE	DESCRIPTION

- NOTES :
- ALL WORKS IN ACCORDANCE WITH CCC IDS AND CSS PARTS 1-7 CURRENT ISSUE.
 - ALL PLANS ARE TO BE READ AND DISTRIBUTED AS A COMPLETE SET. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
 - ALL SERVICES TO BE FULLY SEARCHED AND PILOTTED PRIOR TO TRENCHING.
 - ALL UPVC PIPES (WHETHER SEWER OR STORMWATER) SHALL CONFORM TO AS NZS 1260:1999 AND SHALL HAVE THE FOLLOWING STIFFNESS NUMBERS AS SET OUT IN THE STANDARD: DN 100 AND 150...SN16; DN225 AND LARGER ... SN8.
 - ALL SERVICES UP DRIVEWAYS & ROWS TO BE INSTALLED BY A REGISTERED DRAIN LAYER AND IN TERMS OF THE BUILDING CONSENT.
 - REFER TO LONGSECTIONS FOR ALL STORMWATER LEVELS.
 - ORIGIN OF LEVELS
BM.3293[EAA]
RL = 23.77.

LOCATED AT THE CORNER OF HALSWELL ROAD AND WILLIAM BRITAN AVENUE

LEVELS IN TERMS OF CHRISTCHURCH DRAINAGE DATUM 2019 LEVELS.
 - ALL STORMWATER LATERALS TO BE LAID AT 1:60. MINIMUM GRADE AND LAID TO 1.0m WITHIN LOTS.
 - NOMINATED PIPE SIZES ARE INTERNAL DIAMETER UNLESS NOTED OTHERWISE.
 - ALL RESIDENTIAL STORMWATER LATERALS TO BE 100mm DIAMETER AND INDUSTRIAL LATERALS TO BE A MINIMUM OF 150mm.
 - RAMPED RISERS ARE TO BE USED FOR LATERALS TO ENSURE A MAXIMUM DEPTH OF 1.5m COVER AT THE LOT BOUNDARY.
 - BEDDING TO BE AS PER SD344 UNLESS OTHERWISE SPECIFIED.
 - STORMWATER PIPE WORK TO HAVE SUFFICIENT COVER IN ACCORDANCE WITH CCC STANDARDS.
 - ALL SUMPS TO HAVE CCC CYCLE SAFE GRATES.
 - STORMWATER LATERALS TO HAVE A MINIMUM 1m CLEARANCE FROM SEWER LATERALS LOT FRONTAGE PERMITTING.
 - TRAPPED SUMPS TO BE IN ACCORDANCE WITH SD329.
 - ALL CONCRETE PIPE JOINTS TO BE WRAPPED.

Christchurch City Council Page 6 of 6
RMA/2021/2098
Accepted Engineering Plans
29/04/2022 Megarry, Peter

NAME	SIGNED	DATE
DESIGNED BY DEEPANSHU GROVER		
CHECKED BY ANDY HALL		



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JOB TITLE:
Quaifes Farm Stages 1 - 4

SHEET TITLE:
Stormwater Longsections RMA/2021/2098

DRAWING STATUS
For Engineering Approval

SCALE: As Shown DATE: January 2022

CAD FILE : \\20083\ENG\Drawings\STGS 1-4\E20083 STGS 1-4 E04.6_R0.dwg	DRAWN : JS
DRAWING No : E.20083	SHEET No : E04.9
REVISION :	RO