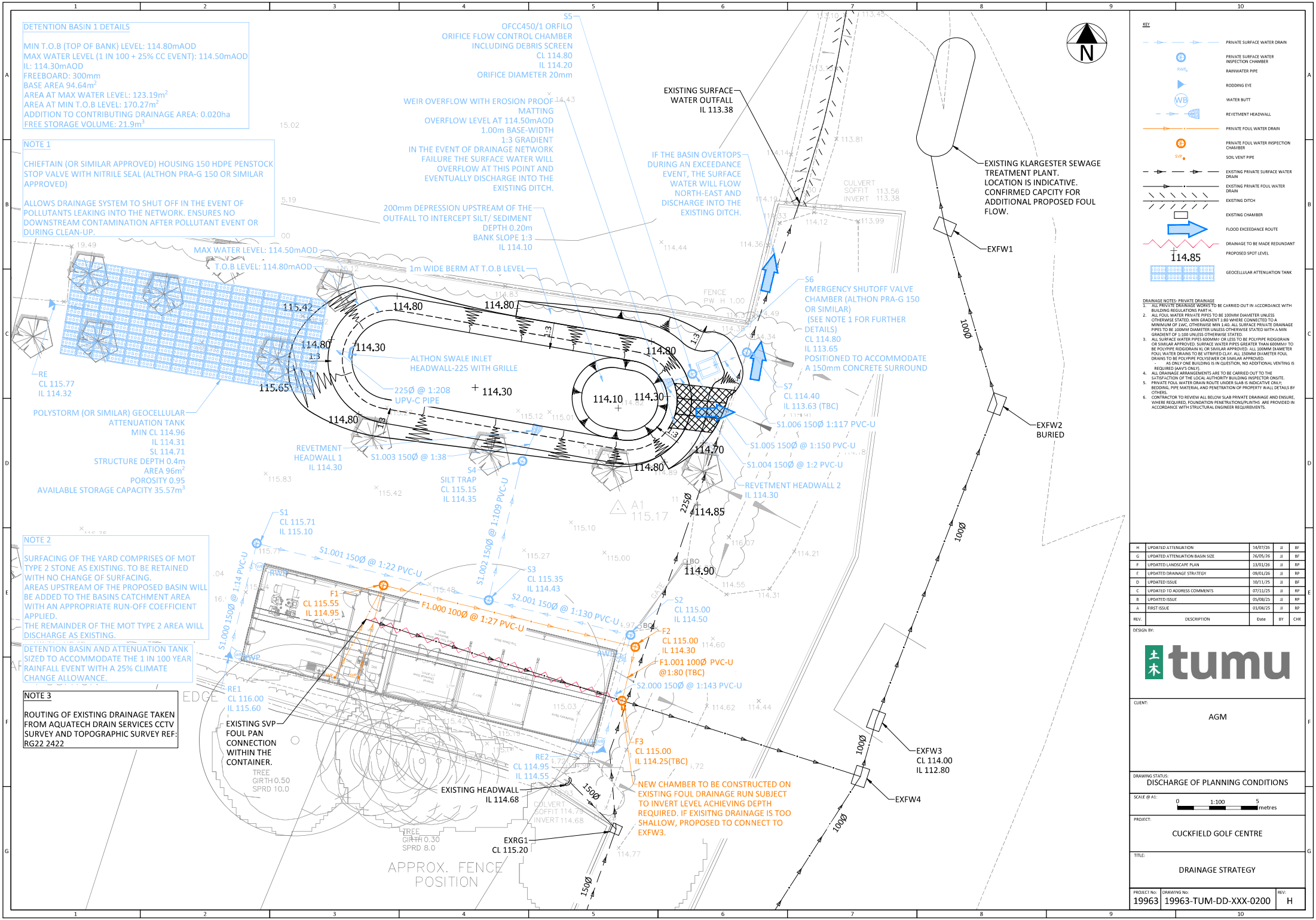

DETENTION BASIN 1 DETAILS
MIN T.O.B (TOP OF BANK) LEVEL: 114.80mAOD
MAX WATER LEVEL (1 IN 100 + 25% CC EVENT): 114.50mAOD
IL: 114.30mAOD
FREEBOARD: 300mm
BASE AREA 94.64m²
AREA AT MAX WATER LEVEL: 123.19m²
AREA AT MIN T.O.B LEVEL: 170.27m²
ADDITION TO CONTRIBUTING DRAINAGE AREA: 0.020ha
FREE STORAGE VOLUME: 21.9m³
NOTE 1
CHIEFTAIN (OR SIMILAR APPROVED) HOUSING 150 HDPE PENSTOCK STOP VALVE WITH NITRILE SEAL (ALTHON PRA-G 150 OR SIMILAR APPROVED)
ALLOWS DRAINAGE SYSTEM TO SHUT OFF IN THE EVENT OF POLLUTANTS LEAKING INTO THE NETWORK. ENSURES NO DOWNSTREAM CONTAMINATION AFTER POLLUTANT EVENT OR DURING CLEAN-UP.
NOTE 2
SURFACING OF THE YARD COMPRISES OF MOT TYPE 2 STONE AS EXISTING. TO BE RETAINED WITH NO CHANGE OF SURFACING.
AREAS UPSTREAM OF THE PROPOSED BASIN WILL BE ADDED TO THE BASINS CATCHMENT AREA WITH AN APPROPRIATE RUN-OFF COEFFICIENT APPLIED.
THE REMAINDER OF THE MOT TYPE 2 AREA WILL DISCHARGE AS EXISTING.
DETENTION BASIN AND ATTENUATION TANK SIZED TO ACCOMMODATE THE 1 IN 100 YEAR RAINFALL EVENT WITH A 25% CLIMATE CHANGE ALLOWANCE.
NOTE 3
ROUTING OF EXISTING DRAINAGE TAKEN FROM AQUATECH DRAIN SERVICES CCTV SURVEY AND TOPOGRAPHIC SURVEY REF: RG22 2422
S5
OFCC450/1 ORFILO
ORIFICE FLOW CONTROL CHAMBER
INCLUDING DEBRIS SCREEN
CL 114.80
IL 114.20
ORIFICE DIAMETER 20mm
WEIR OVERFLOW WITH EROSION PROOF MATTING
OVERFLOW LEVEL AT 114.50mAOD
1.00m BASE-WIDTH
1:3 GRADIENT
IN THE EVENT OF DRAINAGE NETWORK FAILURE THE SURFACE WATER WILL OVERFLOW AT THIS POINT AND EVENTUALLY DISCHARGE INTO THE EXISTING DITCH.
EXISTING SURFACE WATER OUTFALL
IL 113.38
IF THE BASIN OVERTOPS DURING AN EXCEEDANCE EVENT, THE SURFACE WATER WILL FLOW NORTH-EAST AND DISCHARGE INTO THE EXISTING DITCH.
200mm DEPRESSION UPSTREAM OF THE OUTFALL TO INTERCEPT SILT/ SEDIMENT
DEPTH 0.20m
BANK SLOPE 1:3
IL 114.10
EXISTING KLARGESTER SEWAGE TREATMENT PLANT. LOCATION IS INDICATIVE. CONFIRMED CAPCITY FOR ADDITIONAL PROPOSED FOUL FLOW.
EXFW1
MAX WATER LEVEL: 114.50mAOD
T.O.B LEVEL: 114.80mAOD
1m WIDE BERM AT T.O.B LEVEL
S6
EMERGENCY SHUTOFF VALVE CHAMBER (ALTHON PRA-G 150 OR SIMILAR)
(SEE NOTE 1 FOR FURTHER DETAILS)
CL 114.80
IL 113.65
POSITIONED TO ACCOMMODATE A 150mm CONCRETE SURROUND
ALTHON SWALE INLET HEADWALL-225 WITH GRILLE
225Ø @ 1:208 UPV-C PIPE
RE
CL 115.77
IL 114.32
POLYSTORM (OR SIMILAR) GEOCELLULAR ATTENUATION TANK
MIN CL 114.96
IL 114.31
SL 114.71
STRUCTURE DEPTH 0.4m
AREA 96m²
POROSITY 0.95
AVAILABLE STORAGE CAPACITY 35.57m³
S7
CL 114.40
IL 113.63 (TBC)
S1.006 150Ø 1:117 PVC-U
S1.005 150Ø @ 1:150 PVC-U
S1.004 150Ø @ 1:2 PVC-U
REVETMENT HEADWALL 2
IL 114.30
REVETMENT HEADWALL 1
IL 114.30
S1.003 150Ø @ 1:38
S4
SILT TRAP
CL 115.15
IL 114.35
EXFW2 BURIED
S1
CL 115.71
IL 115.10
S1.001 150Ø @ 1:22 PVC-U
S1.002 150Ø @ 1:109 PVC-U
S1.000 150Ø @ 1:14 PVC-U
S3
CL 115.35
IL 114.43
S2.001 150Ø @ 1:130 PVC-U
F1
CL 115.55
IL 114.95
F1.000 100Ø @ 1:27 PVC-U
S2
CL 115.00
IL 114.50
F2
CL 115.00
IL 114.30
F1.001 100Ø PVC-U @1:80 (TBC)
S2.000 150Ø @ 1:143 PVC-U
RE1
CL 116.00
IL 115.60
EXISTING SVP FOUL PAN CONNECTION WITHIN THE CONTAINER.
F3
CL 115.00
IL 114.25(TBC)
NEW CHAMBER TO BE CONSTRUCTED ON EXISTING FOUL DRAINAGE RUN SUBJECT TO INVERT LEVEL ACHIEVING DEPTH REQUIRED. IF EXISITNG DRAINAGE IS TOO SHALLOW, PROPOSED TO CONNECT TO EXFW3.
EXFW3
CL 114.00
IL 112.80
EXFW4
RE2
CL 114.95
IL 114.55
EXISTING HEADWALL
IL 114.68
EXRG1
CL 115.20
APPROX. FENCE POSITION
TREE GIRTH 0.50 SPRD 10.0
TREE GIRTH 0.30 SPRD 8.0
CULVERT SOFFIT 113.56 INVERT 113.38
CULVERT SOFFIT 114.79 INVERT 114.68
FENCE PW H 1.00
EDGE
KEY
PRIVATE SURFACE WATER DRAIN
PRIVATE SURFACE WATER INSPECTION CHAMBER
RAINWATER PIPE
RODDING EYE
WATER BUTT
REVETMENT HEADWALL
PRIVATE FOUL WATER DRAIN
PRIVATE FOUL WATER INSPECTION CHAMBER
SOIL VENT PIPE
EXISTING PRIVATE SURFACE WATER DRAIN
EXISTING PRIVATE FOUL WATER DRAIN
EXISTING DITCH
EXISTING CHAMBER
FLOOD EXCEEDANCE ROUTE
DRAINAGE TO BE MADE REDUNDANT
PROPOSED SPOT LEVEL
114.85
GEOCELLULAR ATTENUATION TANK
DRAINAGE NOTES: PRIVATE DRAINAGE
1. ALL PRIVATE DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATIONS PART H.
2. ALL FOUL WATER PRIVATE PIPES TO BE 100MM DIAMETER UNLESS OTHERWISE STATED. MIN GRADIENT 1:80 WHERE CONNECTED TO A MINIMUM OF 1WC, OTHERWISE MIN 1:40. ALL SURFACE PRIVATE DRAINAGE PIPES TO BE 100MM DIAMETER UNLESS OTHERWISE STATED WITH A MIN GRADIENT OF 1:100 UNLESS OTHERWISE STATED.
3. ALL SURFACE WATER PIPES 600MM Ø OR LESS TO BE POLYPIPE RIDGIDRAIN OR SIMILAR APPROVED. SURFACE WATER PIPES GREATER THAN 600MMØ TO BE POLYPIPE RIDGIDRAIN XL OR SIMILAR APPROVED. ALL 100MM DIAMETER FOUL WATER DRAINS TO BE VITRIFIED CLAY. ALL 150MM DIAMETER FOUL DRAINS TO BE POLYPIPE POLYSEWER OR SIMILAR APPROVED.
- AS ONLY ONE BUILDING IS IN QUESTION, NO ADDITIONAL VENTING IS REQUIRED (AAVS ONLY).
4. ALL DRAINAGE ARRANGEMENTS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE LOCAL AUTHORITY BUILDING INSPECTOR ONSITE.
5. PRIVATE FOUL WATER DRAIN ROUTE UNDER SLAB IS INDICATIVE ONLY; BEDDING, PIPE MATERIAL AND PENETRATION OF PROPERTY WALL DETAILS BY OTHERS.
6. CONTRACTOR TO REVIEW ALL BELOW SLAB PRIVATE DRAINAGE AND ENSURE, WHERE REQUIRED, FOUNDATION PENETRATIONS/PLINTHS ARE PROVIDED IN ACCORDANCE WITH STRUCTURAL ENGINEER REQUIREMENTS.
H UPDATED ATTENUATION 14/07/26 JJ BF
G UPDATED ATTENUATION BASIN SIZE 26/05/26 JJ BF
F UPDATED LANDSCAPE PLAN 13/01/26 JJ RP
F UPDATED DRAINAGE STRATEGY 09/01/26 JJ RP
D UPDATED ISSUE 10/11/25 JJ BF
C UPDATED TO ADDRESS COMMENTS 07/11/25 JJ RP
B UPDATED ISSUE 05/08/25 JJ RP
A FIRST ISSUE 01/08/25 JJ RP
REV. DESCRIPTION Date BY CHK
DESIGN BY:
tumu
CLIENT:
AGM
DRAWING STATUS:
DISCHARGE OF PLANNING CONDITIONS
SCALE @ A1:
0 1:100 5 metres
PROJECT:
CUCKFIELD GOLF CENTRE
TITLE:
DRAINAGE STRATEGY
PROJECT No: 19963
DRAWING No: 19963-TUM-DD-XXX-0200
REV: H