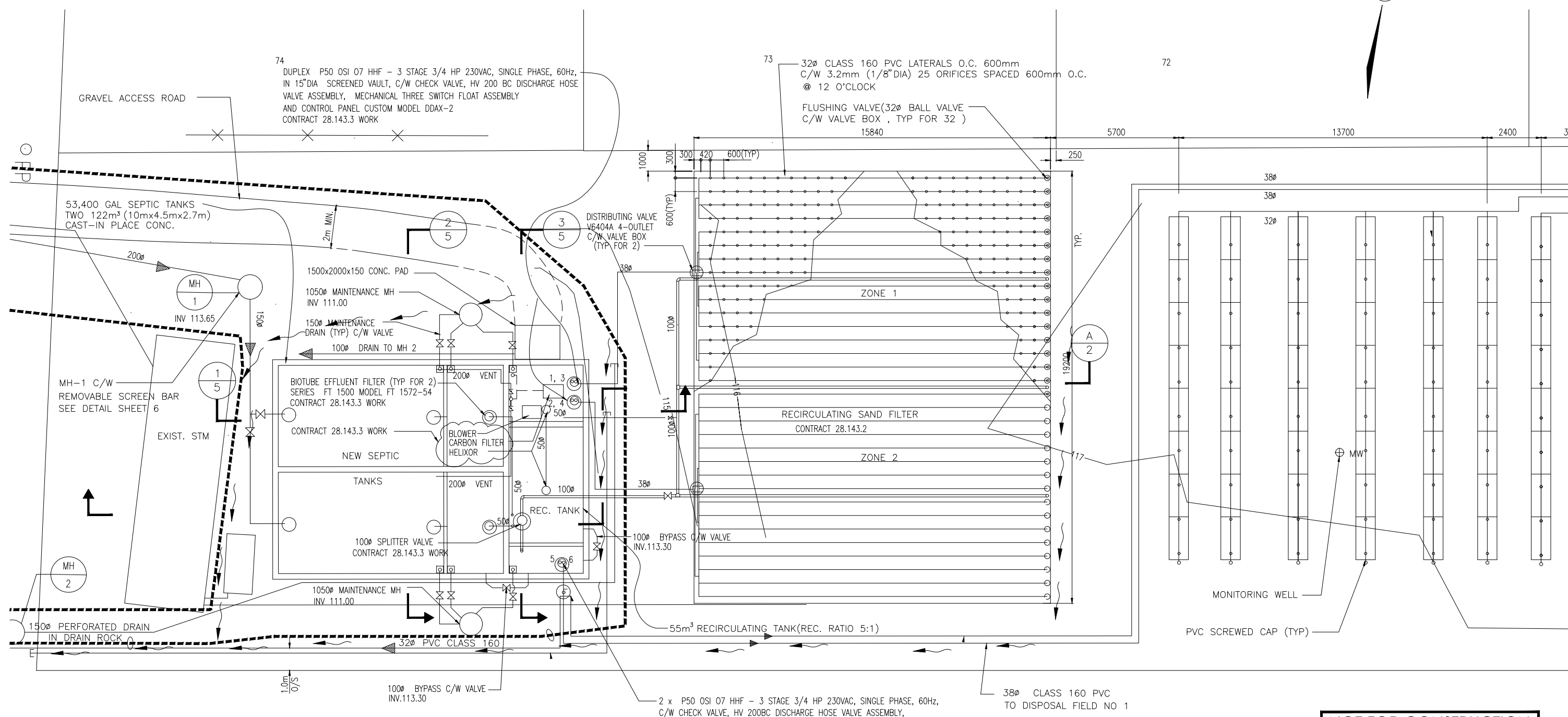
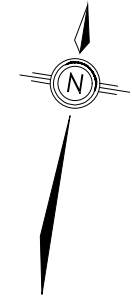




SUNSHINE COAST REGIONAL DISTRICT
WOODCREEK PARK WWTP UPGRADES
ISSUED FOR TENDER
DATE: AUGUST 2, 2024



LIST OF DRAWINGS						
#	DRAWING NO.	DRAWING TITLE	ISSUE	REVISION	DATE	REMARK
1	VP23-SCR-02-00-C1	EXISTING SITE PLAN	ISSUED FOR TENDER	0	2024-08-02	FOR REFERENCE
2	VP23-SCR-02-00-C2	DEMOLITION PLAN	ISSUED FOR TENDER	0	2024-08-02	
3	VP23-SCR-02-00-C3	HEADWORKS	ISSUED FOR TENDER	0	2024-08-02	
4	VP23-SCR-02-00-P1	PROCESS FLOW DIAGRAM	ISSUED FOR TENDER	0	2024-08-02	
5	VP23-SCR-02-00-P2	AX-100 LAYOUT PLAN	ISSUED FOR TENDER	0	2024-08-02	
6	VP23-SCR-02-00-P3	PROFILES	ISSUED FOR TENDER	0	2024-08-02	
7	VP23-SCR-02-00-D1	AX100 FILTER	ISSUED FOR TENDER	0	2024-08-02	FOR REFERENCE
8	VP23-SCR-02-00-D2	DETAILS	ISSUED FOR TENDER	0	2024-08-02	FOR REFERENCE
9	VP23-SCR-02-00-S1	CONCRETE PLAN AND NOTES	ISSUED FOR TENDER	0	2024-08-19	
10	VP23-SCR-02-00-S2	CONCRETE SECTIONS AND DETAILS	ISSUED FOR TENDER	0	2024-08-19	
11		WOODCREEK WWTP RECORD DRAWINGS				FOR REFERENCE



NOT FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE (MM-WW-DD)	CHK	APP	PM
0	ISSUED FOR TENDER	RL	2024-08-02	MM	RL	MM
B	RE-ISSUED FOR REVIEW	RL	2024-06-28	MM	RL	MM
A	ISSUED FOR REVIEW	RL	2024-02-24	MM	RL	MM

**PERMIT TO PRACTICE
INTEGRATED SUSTAINABILITY**

PERMIT NUMBER: 1001147
Engineers and Geoscientists
of British Columbia (EGBC)

PREPARED BY

CLIENT

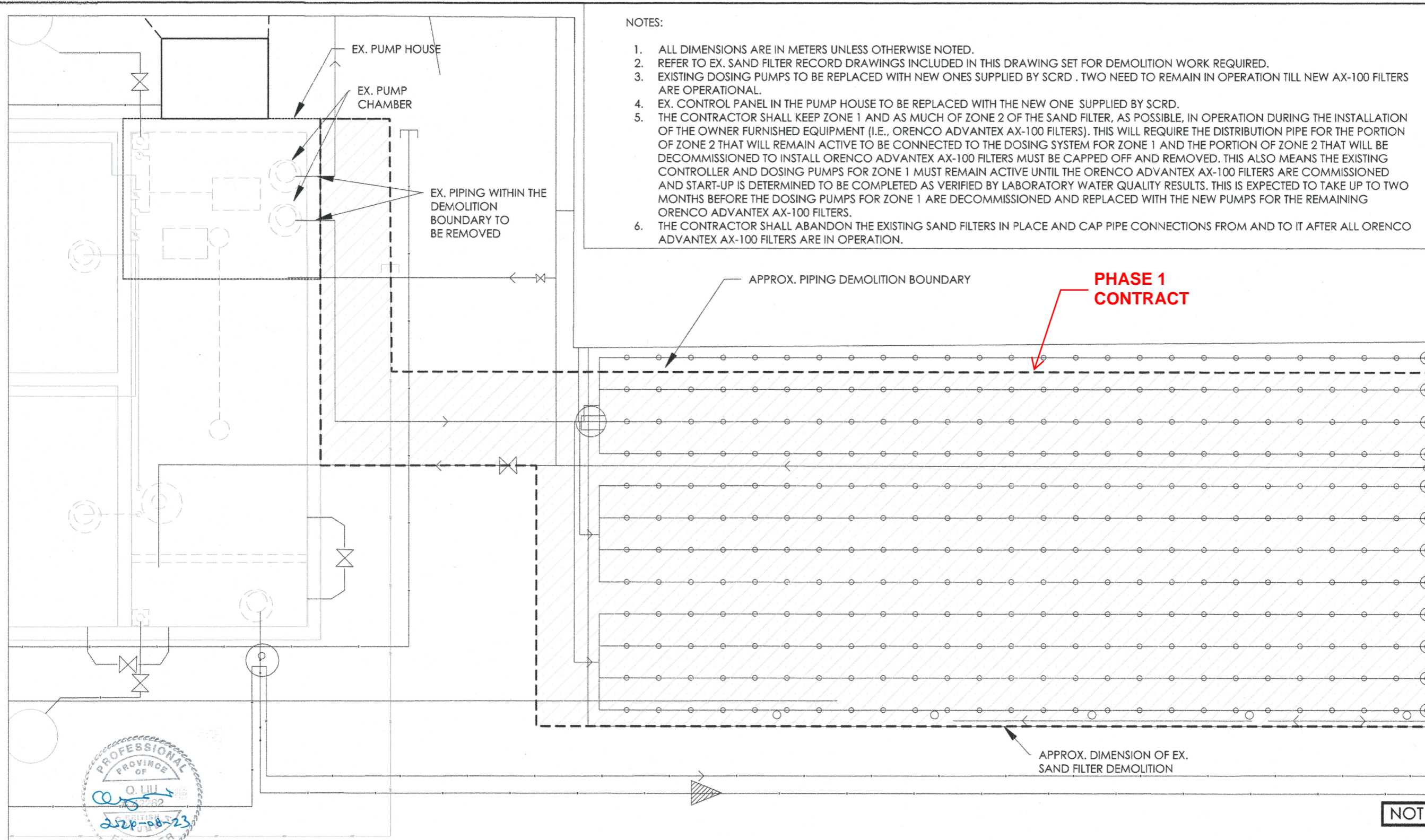
**SUNSHINE COAST REGIONAL DISTRICT
WOODCREEK WWTU UPGRADES
EXISTING SITE PLAN**

DRAWN BY R.L.	CHECKED BY M.M.	ENGINEERED BY R.L.
SCALE NTS	PROJ NO VP23-SCR-01-00	DRAWING NO VP23-SCR-01-00-C1
		REV 0

SCALE APPLIES IF PRINTED ON SIZE "B" (11x17) PAPER

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
2. REFER TO EX. SAND FILTER RECORD DRAWINGS INCLUDED IN THIS DRAWING SET FOR DEMOLITION WORK REQUIRED.
3. EXISTING DOSING PUMPS TO BE REPLACED WITH NEW ONES SUPPLIED BY SCR.D . TWO NEED TO REMAIN IN OPERATION TILL NEW AX-100 FILTERS ARE OPERATIONAL.
4. EX. CONTROL PANEL IN THE PUMP HOUSE TO BE REPLACED WITH THE NEW ONE SUPPLIED BY SCR.D.
5. THE CONTRACTOR SHALL KEEP ZONE 1 AND AS MUCH OF ZONE 2 OF THE SAND FILTER, AS POSSIBLE, IN OPERATION DURING THE INSTALLATION OF THE OWNER FURNISHED EQUIPMENT (I.E., ORENCO ADVANTEX AX-100 FILTERS). THIS WILL REQUIRE THE DISTRIBUTION PIPE FOR THE PORTION OF ZONE 2 THAT WILL REMAIN ACTIVE TO BE CONNECTED TO THE DOSING SYSTEM FOR ZONE 1 AND THE PORTION OF ZONE 2 THAT WILL BE DECOMMISSIONED TO INSTALL ORENCO ADVANTEX AX-100 FILTERS MUST BE CAPPED OFF AND REMOVED. THIS ALSO MEANS THE EXISTING CONTROLLER AND DOSING PUMPS FOR ZONE 1 MUST REMAIN ACTIVE UNTIL THE ORENCO ADVANTEX AX-100 FILTERS ARE COMMISSIONED AND START-UP IS DETERMINED TO BE COMPLETED AS VERIFIED BY LABORATORY WATER QUALITY RESULTS. THIS IS EXPECTED TO TAKE UP TO TWO MONTHS BEFORE THE DOSING PUMPS FOR ZONE 1 ARE DECOMMISSIONED AND REPLACED WITH THE NEW PUMPS FOR THE REMAINING ORENCO ADVANTEX AX-100 FILTERS.
6. THE CONTRACTOR SHALL ABANDON THE EXISTING SAND FILTERS IN PLACE AND CAP PIPE CONNECTIONS FROM AND TO IT AFTER ALL ORENCO ADVANTEX AX-100 FILTERS ARE IN OPERATION.



NOT FOR CONSTRUCTION



REV	DESCRIPTION	BY	DATE (YYYY-MM-DD)	CHK	APP	PM
0	ISSUED FOR TENDER	RL	2024-08-02	MM	RL	MM
B	RE-ISSUED FOR REVIEW	RL	2024-06-28	MM	RL	MM
A	ISSUED FOR REVIEW	RL	2024-02-24	MM	RL	MM

PERMIT TO PRACTICE
INTEGRATED SUSTAINABILITY

PERMIT NUMBER: 1001147
Engineers and Geoscientists
of British Columbia (EGBC)

PREPARED BY
 INTEGRATED SUSTAINABILITY

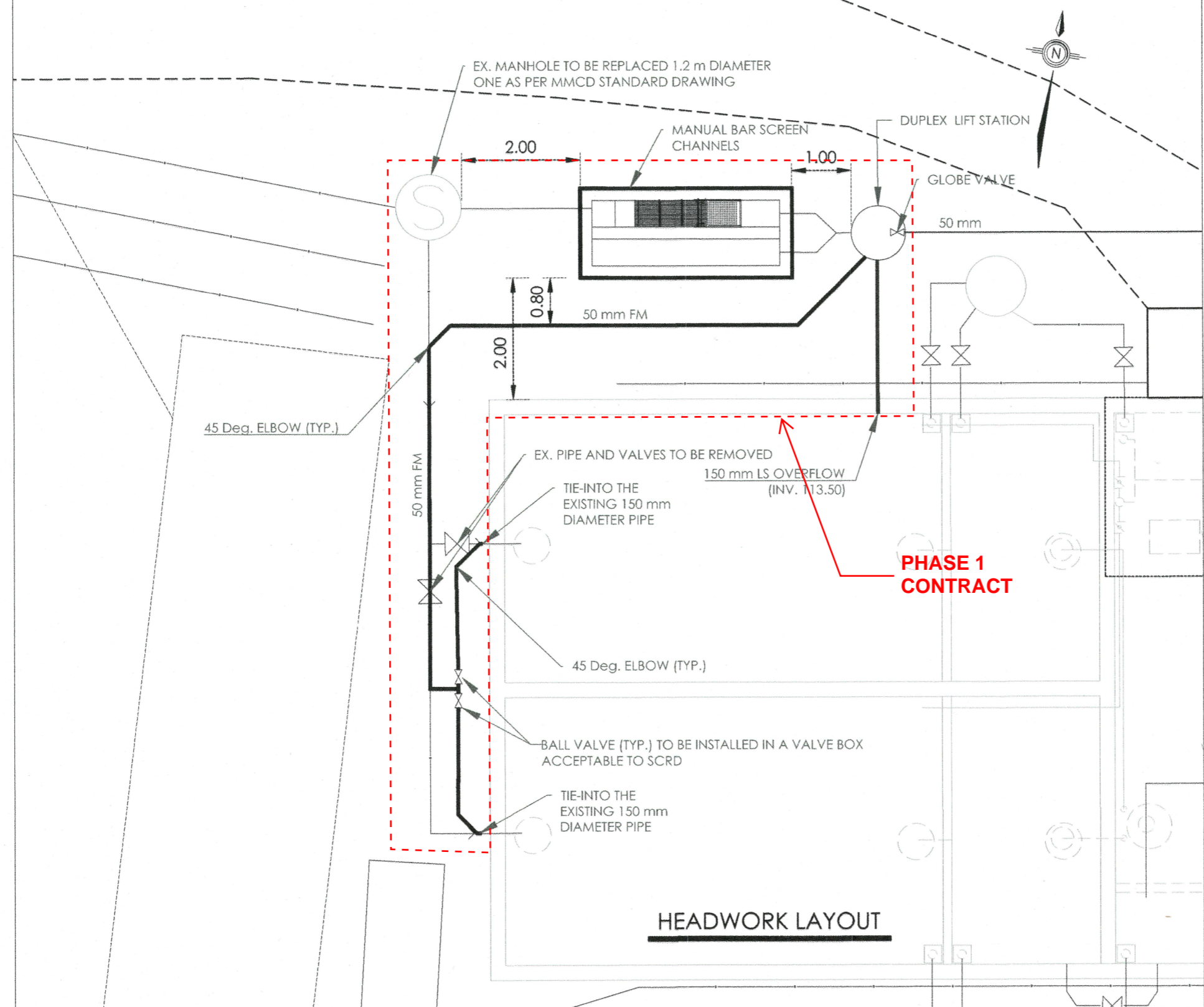
CLIENT

SUNSHINE COAST REGIONAL DISTRICT WOODCREEK WWTP UPGRADES DEMOLITION PLAN			
DRAWN BY R.L.	CHECKED BY M.M.	ENGINEERED BY R.L.	
SCALE 1:75	PROJ NO VP23-SCR-01-00	DRAWING NO VP23-SCR-01-00-C2	REV 0

SCALE APPLIES IF PRINTED ON SIZE "B" (11"x17") PAPER

NOTES:

1. ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE NOTED.
2. SEE STRUCTURAL DRAWINGS FOR SCREEN CHANNEL DETAILS AND SCREEN ANCHOR LOCATION
3. FORCE MAINS TO BE 50 mm DIAMETER BE SCH80 PVC.
4. LIFT STATION OVERFLOW PIPE TO BE 150 mm DIAMETER PVC SDR 35.
5. HEADWORKS MODIFICATIONS INCLUDING NEW CHANNEL, SCREEN AND PIPING SHALL BE DONE TO MINIMIZE THE TOTAL CONSTRUCTION DURATION (I.E., TO BE DONE IN PARALLEL WITH OTHER WORK) UNDER LOW FLOW CONDITIONS IF POSSIBLE DUE TO THE NEED TO MATCH PUMPING TO GRAVITY FLOW RECEIVED AT THE PLANT TO BYPASS THE HEADWORKS AREA.
6. THE CONTRACTOR SHALL PROPOSE THE METHOD OF BYPASSING THE MANHOLE THAT NEEDS TO BE REPLACED, IDEALLY IN A MANNER THAT WILL FACILITATE GRAVITY FLOW TO THE SEPTIC TANKS.
7. THRUST BLOCKS ARE REQUIRED AT FORCE MAIN TEES AND ELBOWS.



HEADWORK LAYOUT

NOT FOR CONSTRUCTION

REV	DESCRIPTION	BY	DATE (YYYY-MM-DD)	CHK	APP	PM
0	ISSUED FOR TENDER	RL	2024-08-02	MM	RL	MM
B	RE-ISSUED FOR REVIEW	RL	2024-06-28	MM	RL	MM
A	ISSUED FOR REVIEW	RL	2024-02-24	MM	RL	MM

**PERMIT TO PRACTICE
INTEGRATED SUSTAINABILITY**

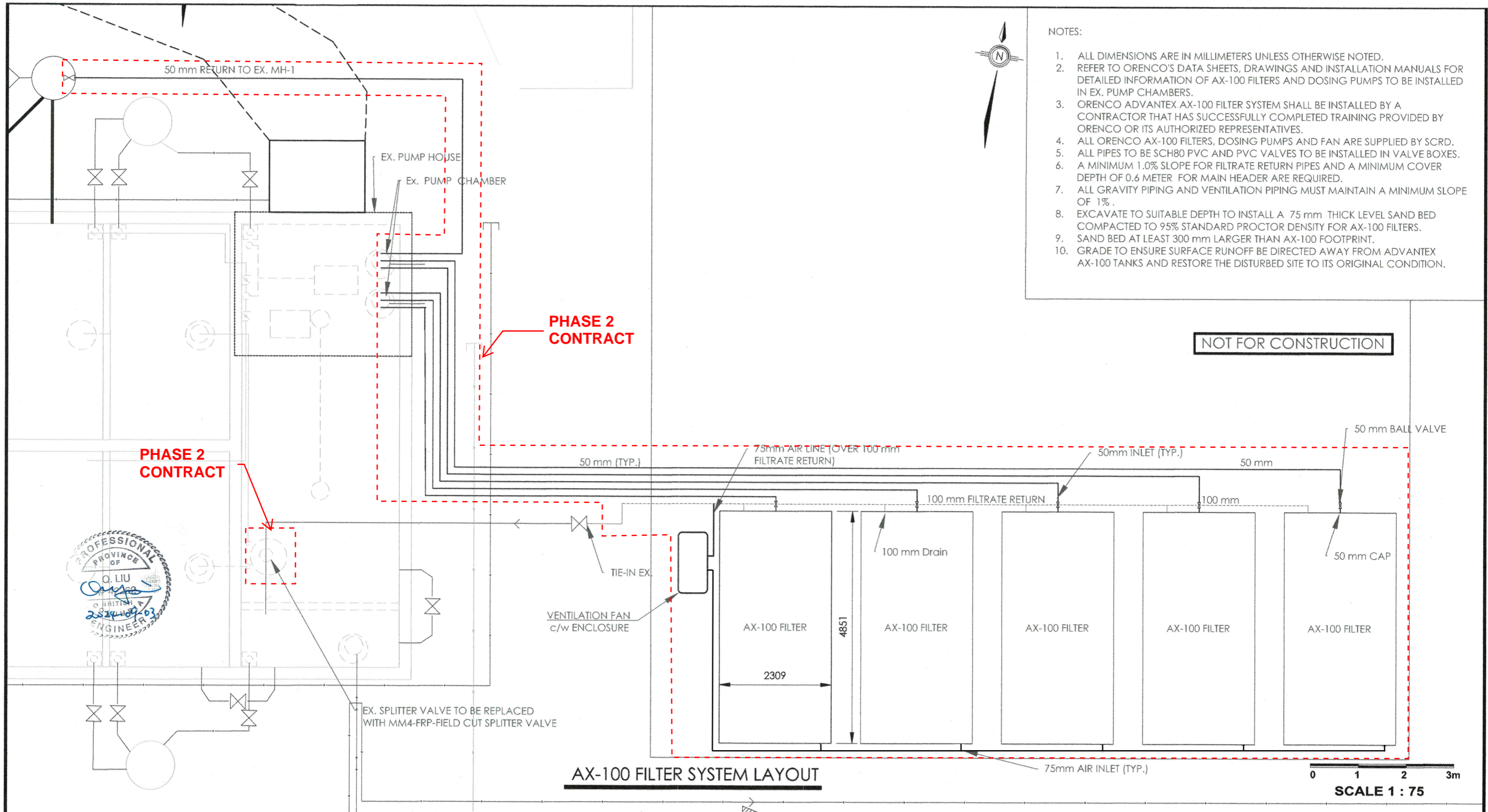
PERMIT NUMBER: 1001147
Engineers and Geoscientists
of British Columbia (EGBC)

PREPARED BY
INTEGRATED SUSTAINABILITY

CLIENT
SUNSHINE COAST REGIONAL DISTRICT

SUNSHINE COAST REGIONAL DISTRICT WOODCREEK WWTU UPGRADES HEADWORKS			
DRAWN BY R.L.	CHECKED BY M.M.	ENGINEERED BY R.L.	
SCALE NTS	PROJ NO VP23-SCR-01-00	DRAWING NO VP23-SCR-01-00-C3	REV 0

SCALE APPLIES IF PRINTED ON SIZE "B" (11"X17") PAPER



REV	DESCRIPTION	BY	DATE (YY-MM-DD)	CHK	APP	PM
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B	RE-ISSUED FOR REVIEW	RL	2024-06-28	MM	RL	MM
A	ISSUED FOR REVIEW	RL	2024-02-24	MM	RL	MM

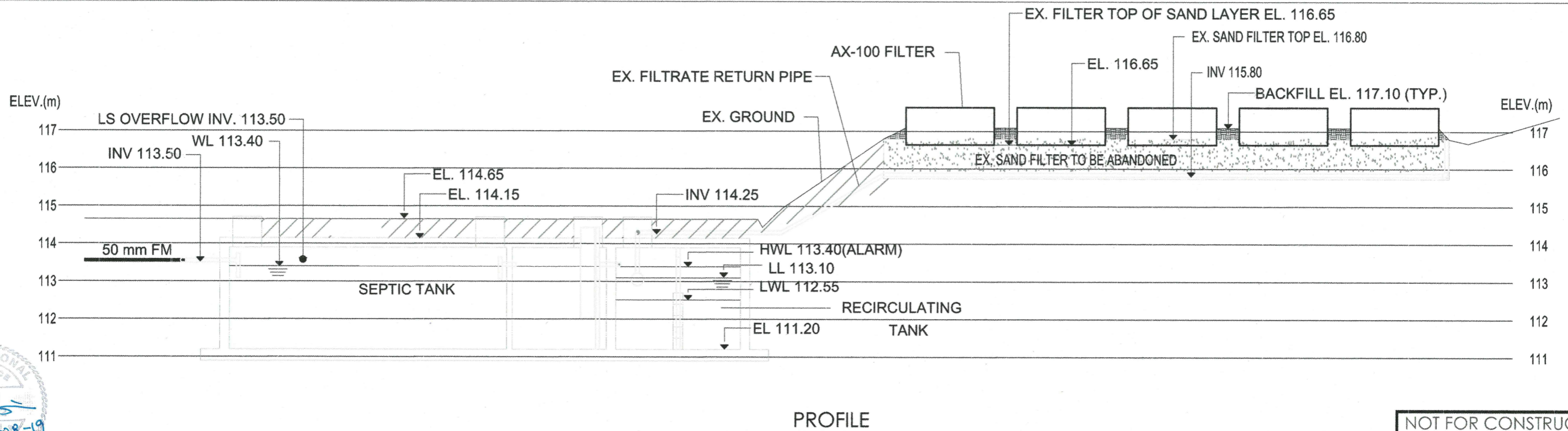
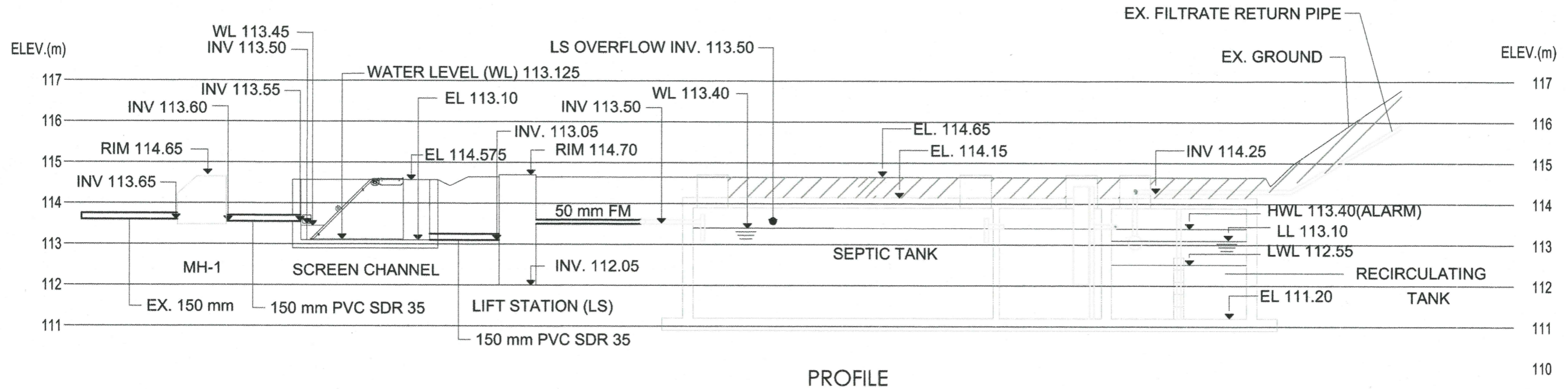
**PERMIT TO PRACTICE
INTEGRATED SUSTAINABILITY**

PERMIT NUMBER: 1001147
Engineers and Geoscientists
of British Columbia (EGBC)

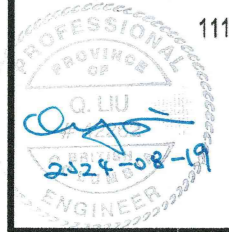


SUNSHINE COAST REGIONAL DISTRICT WOODCREEK WWTP UPGRADES AX-100 FILTER LAYOUT			
DRAWN BY R.L.	CHECKED BY M.M.	ENGINEERED BY R.L.	
SCALE 1:75	PROJ NO VP23-SCR-01-00	DRAWING NO VP23-SCR-01-00-P2	REV 0

SCALE APPLIES IF PRINTED ON SIZE "B" (11"X17") PAPER



NOT FOR CONSTRUCTION



REV	DESCRIPTION	BY	DATE (YY-MM-DD)	CHK	APP	PM
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B	RE-ISSUED FOR REVIEW	RL	2024-06-28	MM	RL	MM
A	ISSUED FOR REVIEW	RL	2024-02-24	MM	RL	MM

**PERMIT TO PRACTICE
INTEGRATED SUSTAINABILITY**

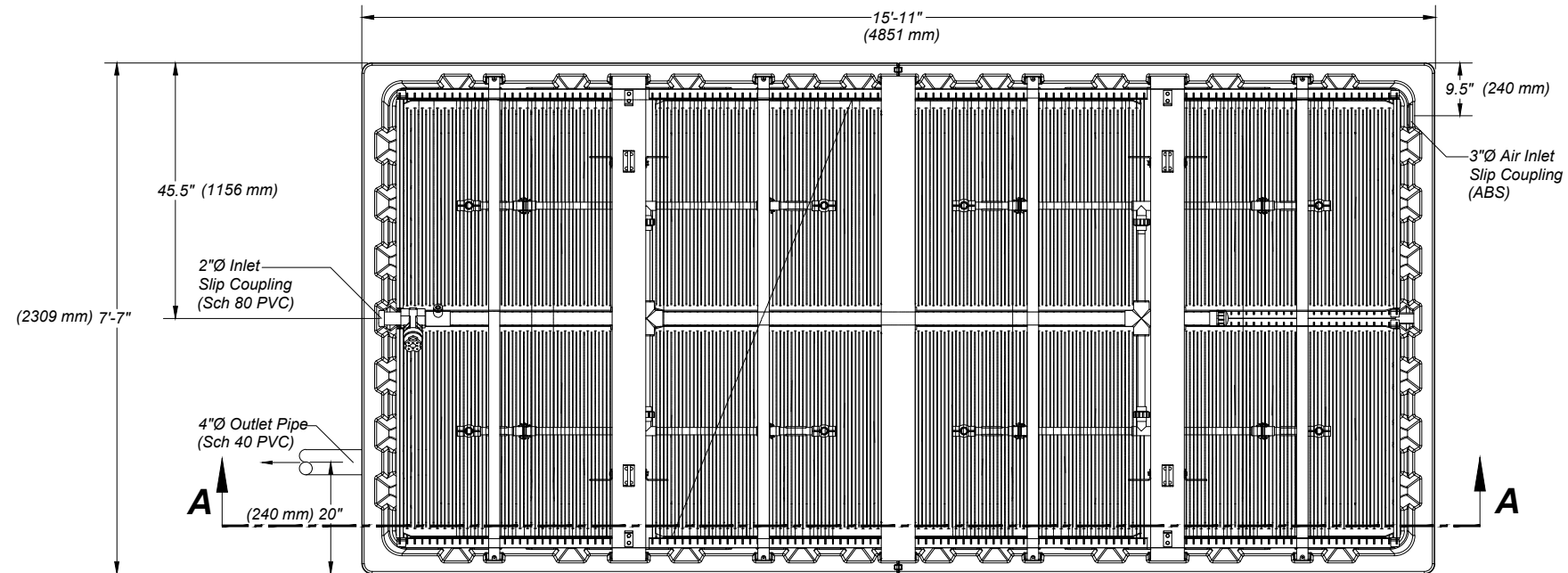
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Engineers and Geoscientists
of British Columbia (EGBC)

PREPARED BY
INTEGRATED SUSTAINABILITY

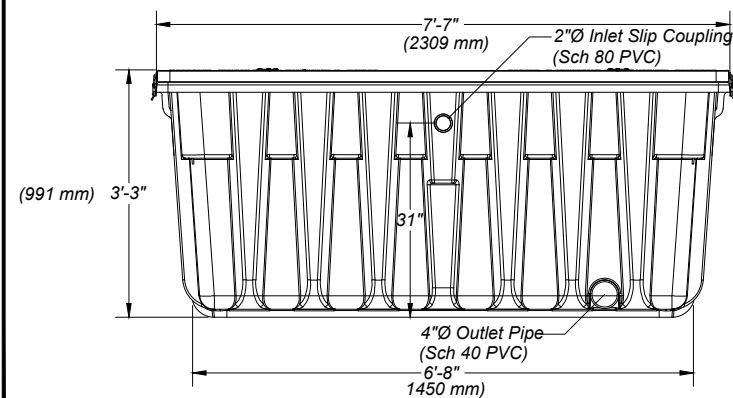
CLIENT
SUNSHINE COAST REGIONAL DISTRICT

SUNSHINE COAST REGIONAL DISTRICT WOODCREEK WWTU UPGRADES PROFILES			
DRAWN BY R.L.	CHECKED BY M.M.	ENGINEERED BY R.L.	
SCALE	PROJ NO VP23-SCR-01-00	DRAWING NO VP23-SCR-01-00-P3	REV 0

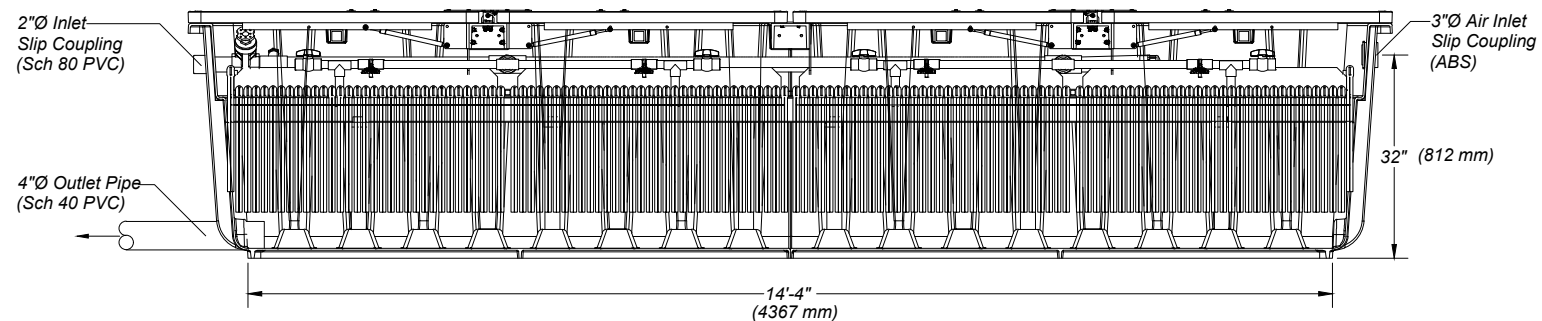
SCALE APPLIES IF PRINTED ON SIZE "B" (11x17) PAPER



AX100 Plan View
Scale: 1" = 2'-0"



AX100 End View
Scale: 1" = 2'-0"



Section A-A
Scale: 1" = 2'-0"



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Portions or all of this Proposed System Configuration Drawing, as appropriate, may be reproduced and integrated into the

Disclaimer: This Proposed System Configuration Drawing is provided solely as a design aid and illustrates one possible configuration of a system that would comply with Orenco's design criteria for the requirements and/or specifications that have been communicated to Orenco (based on third-party standards testing protocols and performance reports, as applicable). Design decisions, including the actual layout and configuration of the system and its viability for the project, are at the sole discretion of the systems' designer.

AdvanTex[®] AX100
Treatment System

Filter Pod Dimensions

Drawn By:	BAS	Scale:	1" = 2'-0"
Reviewed By:	JL	Sheet:	1 OF 1
File:	AX100 POD WITH DIMS.DWG	Rev:	8.0
		Date:	11/27/2023

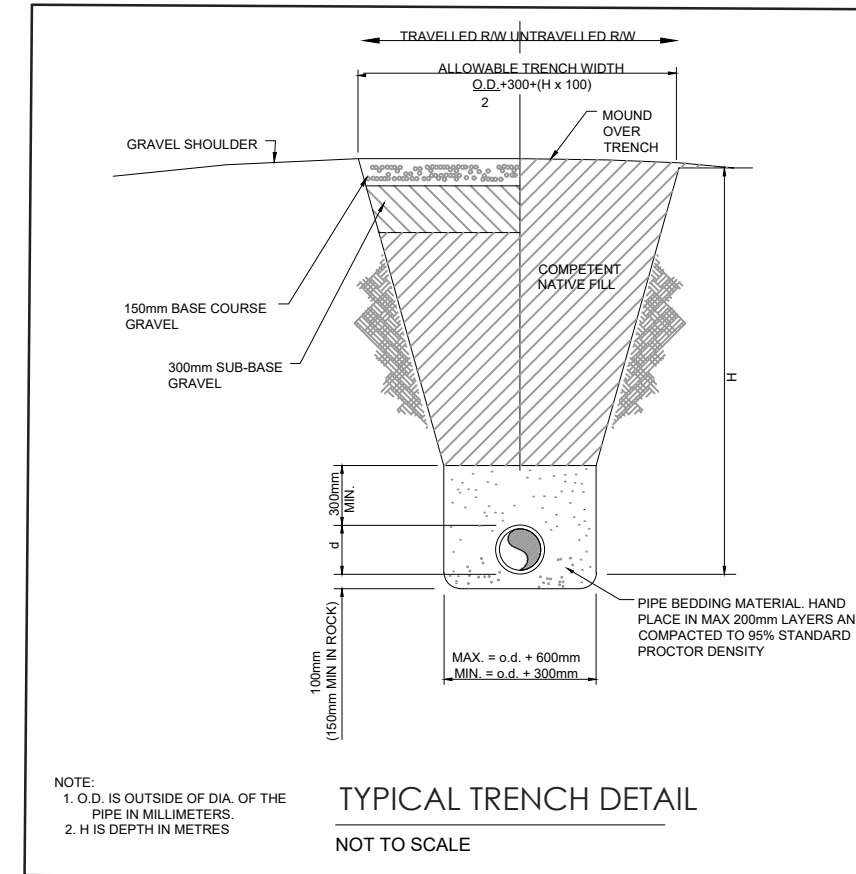
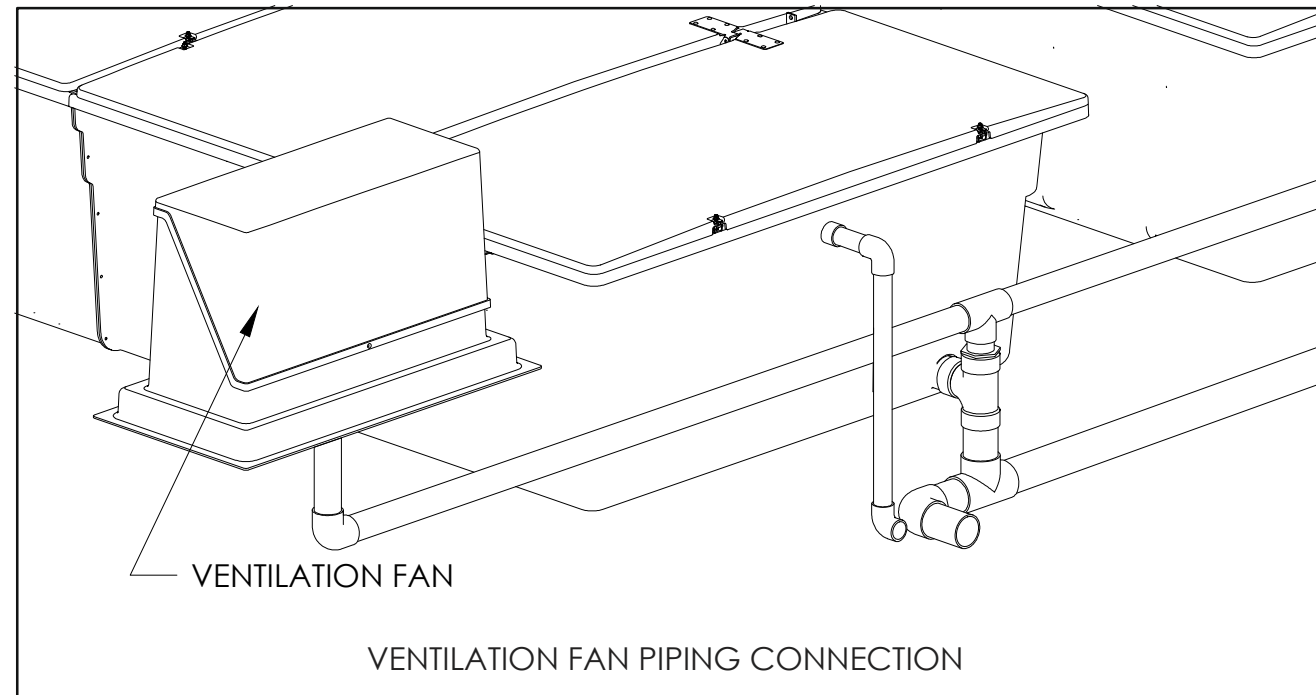
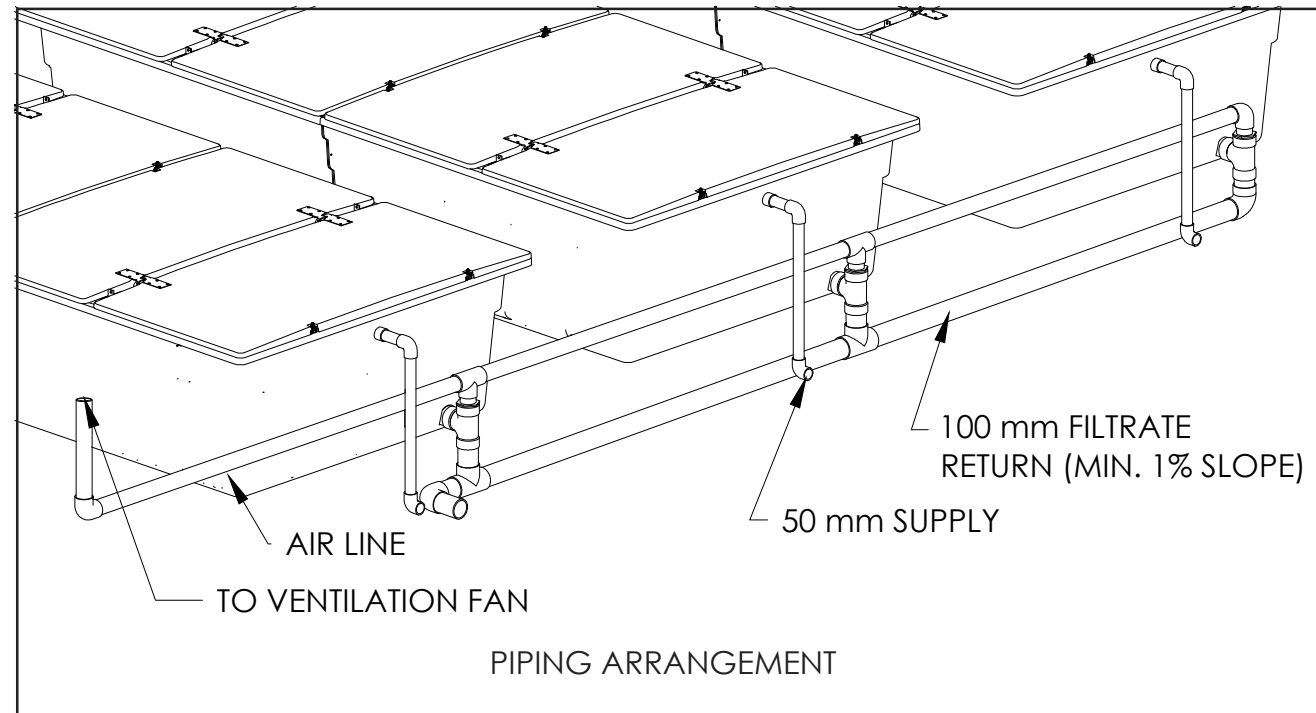
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B	RE-ISSUED FOR REVIEW	2024-06-28	RL	MM	RL	MM
A	ISSUED FOR REVIEW	2024-02-24	RL	MM	RL	MM



SUNSHINE COAST REGIONAL DISTRICT
WOODCREEK WWTP UPGRADES
AX-100 FILTER

DRAWN BY	CHECKED BY	ENGINEERED BY
R.L.	M.M.	R.L.
SCALE	PROJ NO	DRAWING NO
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		REV
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SCALE APPLIES IF PRINTED ON SIZE "B" (11"x17") PAPER



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B	RE-ISSUED FOR REVIEW	2024-06-28	RL			
A	ISSUED FOR REVIEW	2024-02-24	RL			
REV	DESCRIPTION	DATE (YY-MM-DD)	BY	CHK	APP	PM

**PERMIT TO PRACTICE
INTEGRATED SUSTAINABILITY**

PERMIT NUMBER: 1001147
Engineers and Geoscientists
of British Columbia (EGBC)

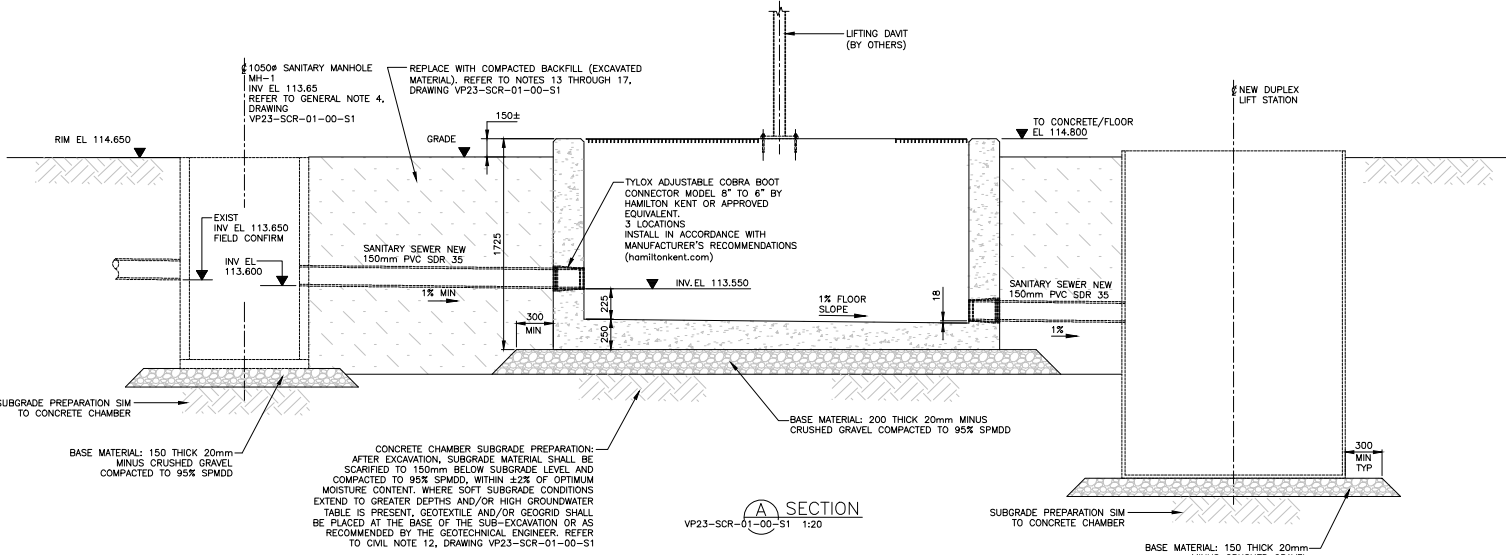
PREPARED BY
INTEGRATED SUSTAINABILITY

CLIENT
SUNSHINE COAST REGIONAL DISTRICT

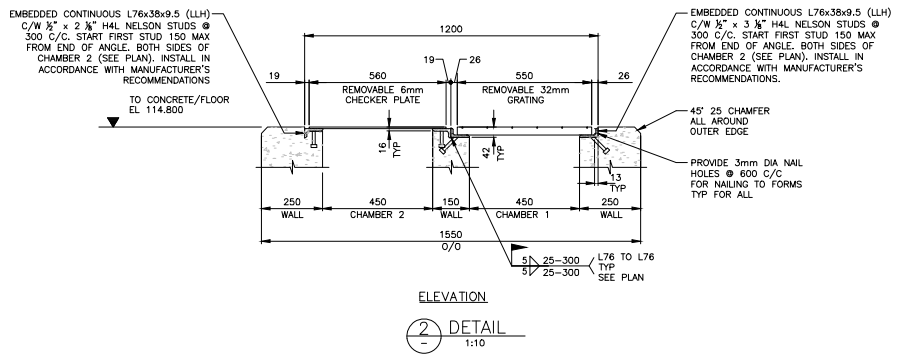
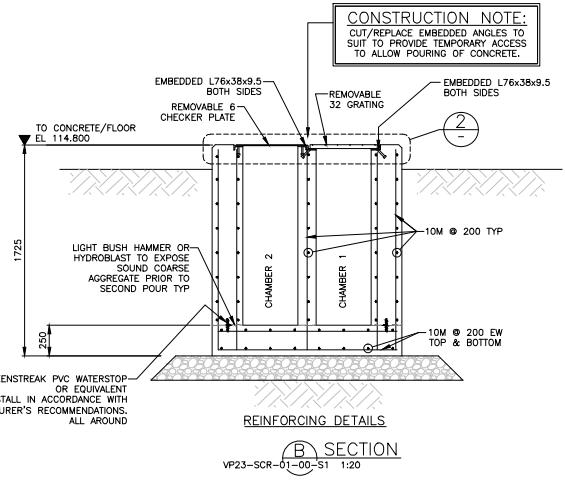
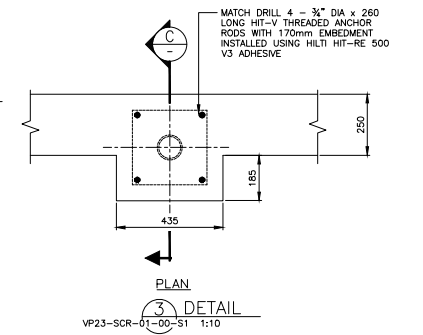
**SUNSHINE COAST REGIONAL DISTRICT
WOODCREEK WWTP UPGRADES
DETAILS**

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SCALE NTS	PROJ NO VP23-SCR-01-00	DRAWING NO VP23-SCR-01-00-D2
		REV 0

SCALE APPLIES IF PRINTED ON SIZE "B" (11"X17") PAPER



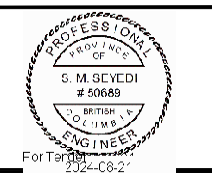
GENERAL NOTE:
1. FOR PLAN, NOTES AND REFERENCES, REFER TO DRAWING VP23-SCR-01-00-S1.



EGBC PERMIT NUMBER: 1001147

NOT FOR CONSTRUCTION

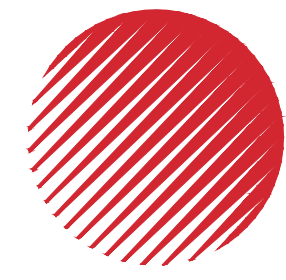
REFERENCE DOCUMENTS	REV	ISSUED FOR TENDER	DATE (YY-MM-DD)	CHK	APP	FM
	0	ISSUED FOR TENDER	2024-08-21			



PREPARED BY
INTEGRATED SUSTAINABILITY

CLIENT
SUNSHINE COAST REGIONAL DISTRICT

SUNSHINE COAST REGIONAL DISTRICT WOODCREEK WWTP UPGRADES HEADWORKS UPGRADES CONCRETE SECTIONS AND DETAILS			
DRAWN BY R.W.	CHECKED BY R.W.	ENGINEERED BY M.S.	REV 0
SCALE AS NOTED	PROJ NO VP23-SCR-01-00	DRAWING NO VP23-SCR-01-00-S2	REV 0



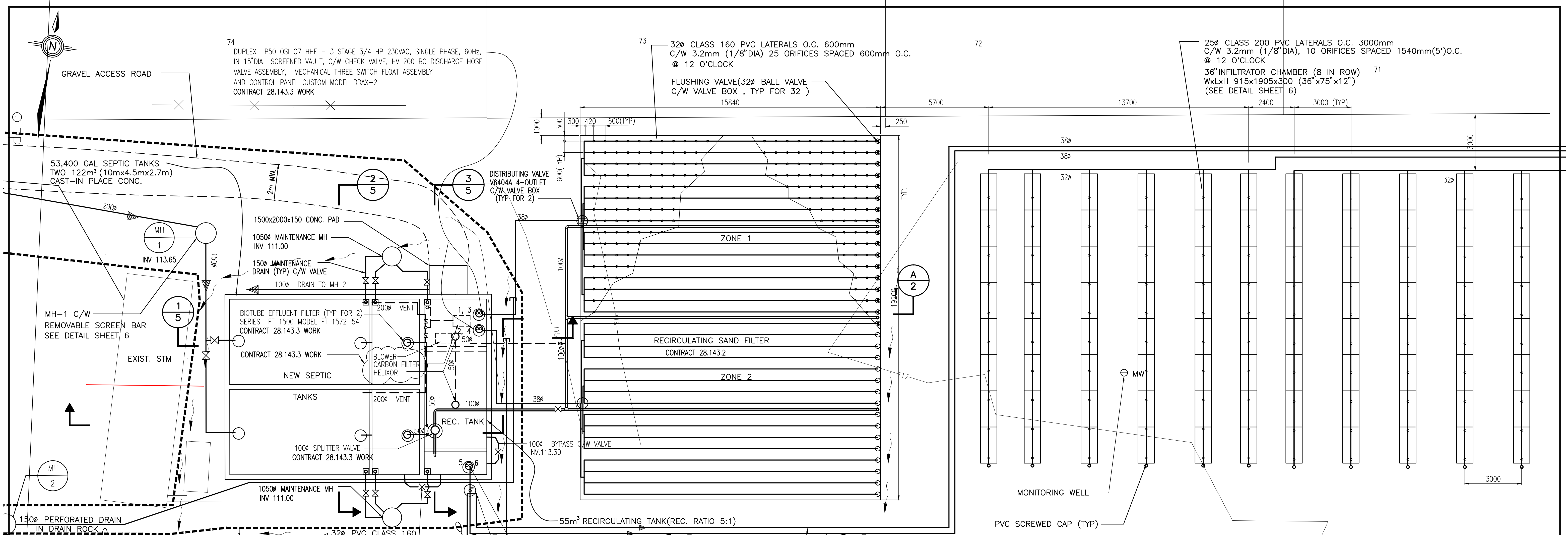
OPUS DAYTONKNIGHT

North Vancouver Office
604-990-4800

210-889 Harbourside Drive
North Vancouver BC
V7P 3S1, Canada

SUNSHINE COAST REGIONAL DISTRICT WOODCREEK WASTEWATER MANAGEMENT UPGRADING RECORD DRAWINGS

Project No: 28.143.2



CONTRACT NO. 28.143.1 WORK

CONTRACT NO. 28.143.2 WORK
 INCLUDES ALL REMAINING CIVIL CONSTRUCTION
 (MECHANICAL AND ELECTRICAL IN CONTRACT 28.143.3 - BY OTHERS)

74
 DUPLEX P50 OSI 07 HHF - 3 STAGE 3/4 HP 230VAC, SINGLE PHASE, 60Hz,
 IN 15" DIA SCREENED VAULT, C/W CHECK VALVE, HV 200 BC DISCHARGE HOSE
 VALVE ASSEMBLY, MECHANICAL THREE SWITCH FLOAT ASSEMBLY
 AND CONTROL PANEL CUSTOM MODEL DDAX-2
 CONTRACT 28.143.3 WORK

73
 32 CLASS 160 PVC LATERALS O.C. 600mm
 C/W 3.2mm (1/8" DIA) 25 ORIFICES SPACED 600mm O.C.
 @ 12 O'CLOCK
 FLUSHING VALVE (32 BALL VALVE
 C/W VALVE BOX, TYP FOR 32)
 15840

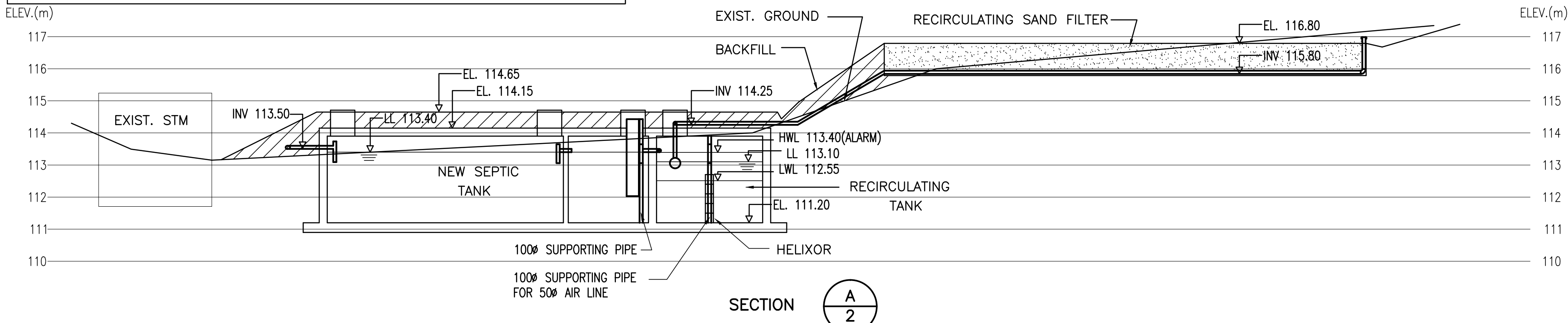
72
 25 CLASS 200 PVC LATERALS O.C. 3000mm
 C/W 3.2mm (1/8" DIA), 10 ORIFICES SPACED 1540mm(5') O.C.
 @ 12 O'CLOCK
 36" INFILTRATOR CHAMBER (8 IN ROW)
 WxLxH 915x1905x300 (36"x75"x12")
 (SEE DETAIL SHEET 6)

76
 2 x P50 OSI 07 HHF - 3 STAGE 3/4 HP 230VAC, SINGLE PHASE, 60Hz,
 C/W CHECK VALVE, HV 200BC DISCHARGE HOSE VALVE ASSEMBLY,
 15" DIA VAULT, MECHANICAL THREE SWITCH FLOAT ASSEMBLY,
 AND CONTROL PANEL UL 508 DAX-2
 CONTRACT 28.143.3 WORK

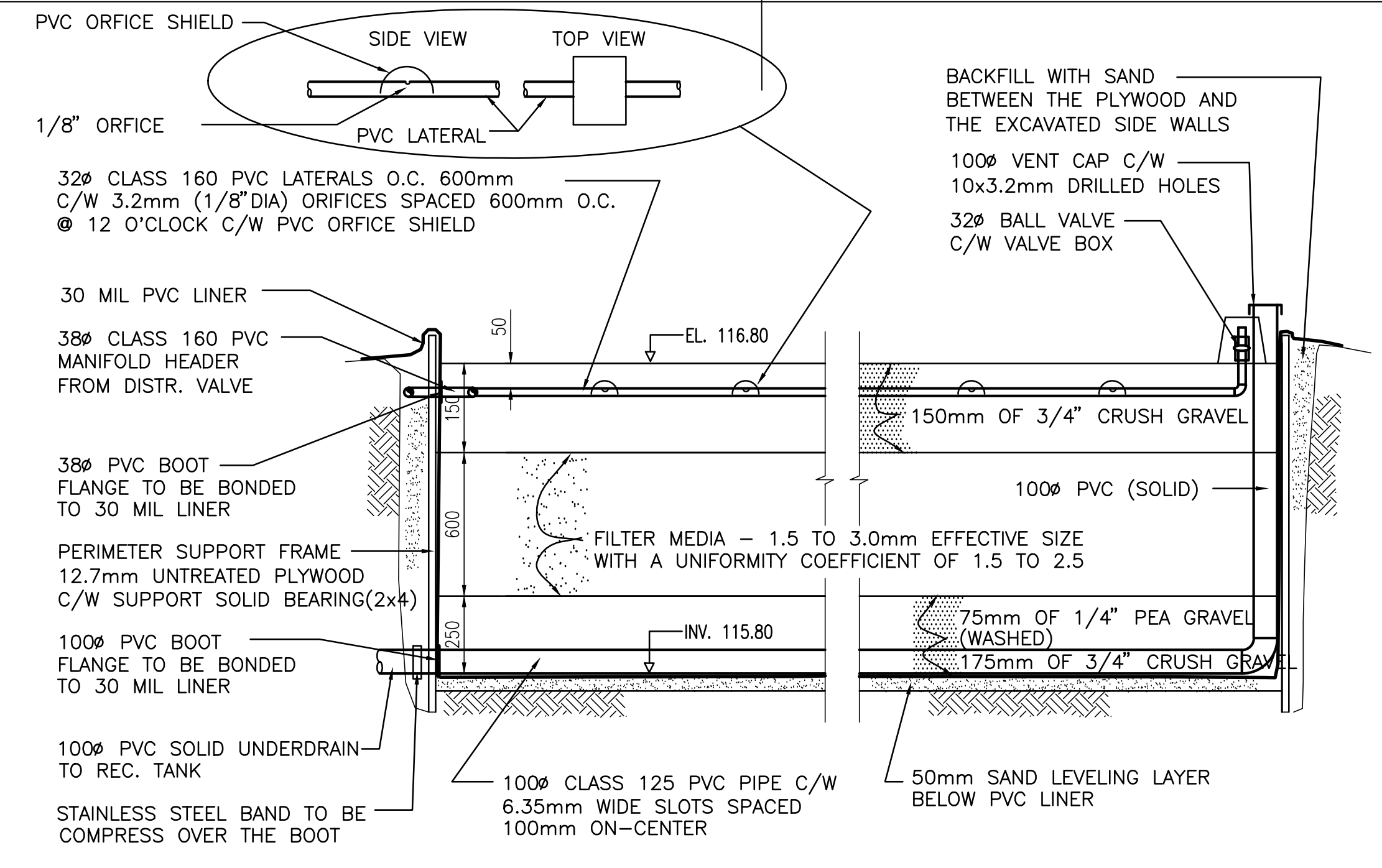
75
 FLOW METER AND SAMPLING
 CHAMBER SEE DETAIL SHEET 6
 CONTRACT 28.143.3 WORK

77
 38 CLASS 160 PVC TO DISPOSAL FIELD NO 1
 38 CLASS 160 PVC TO DISPOSAL FIELD NO 2

PLAN
 SCALE 1:100



SECTION
 A
 2



RECIRCULATING SAND FILTER
 CONTRACT 28.143.2

ACAD DWG. 28-143-2A 1:100 99-03-02

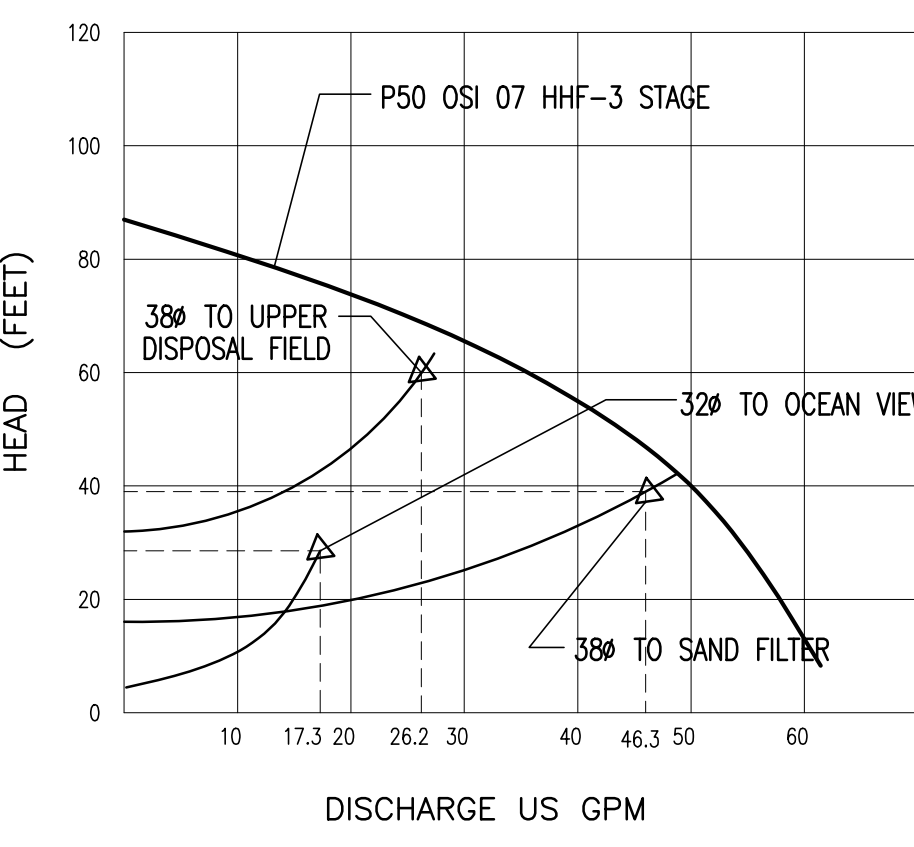
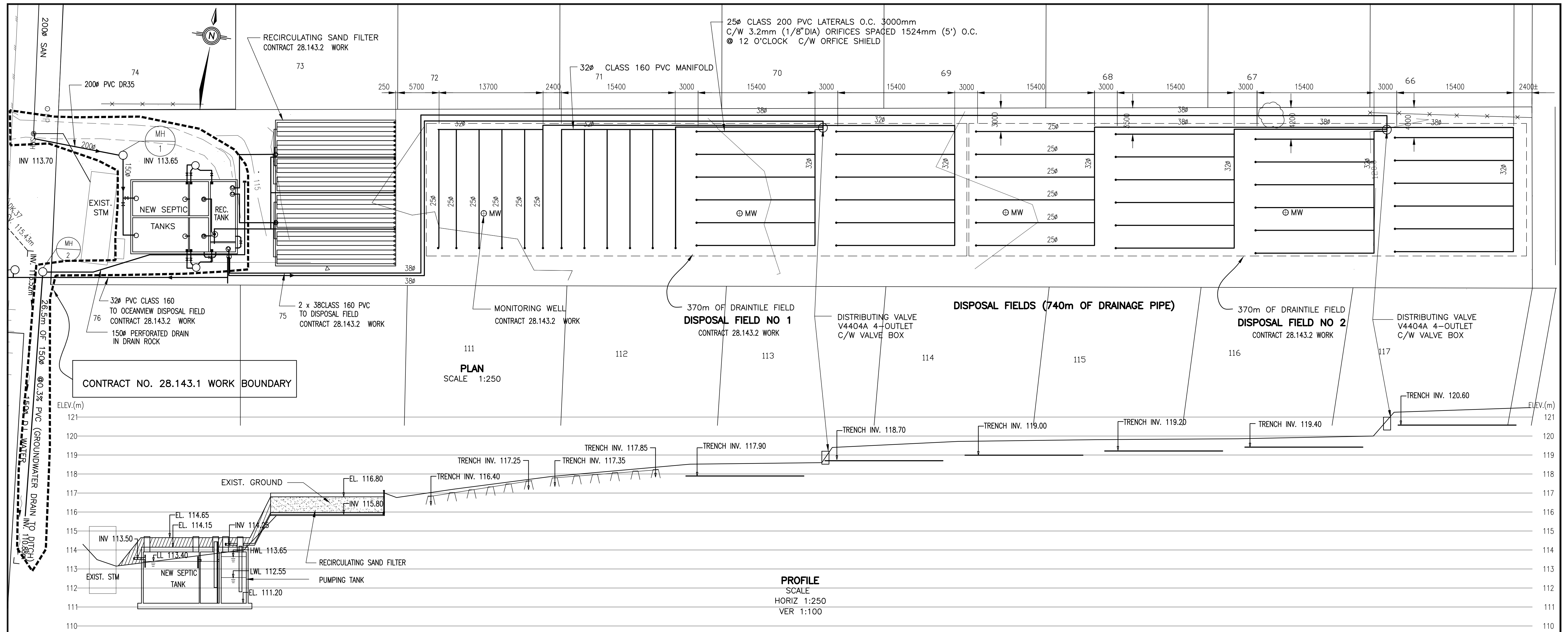
ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
B	FEB-98	IW			MOE PERMIT REQ'D						
C	FEB-99	IW			RECORD DRAWING						

DESIGNED AB/IW
 DRAWN IW
 CHECKED



SUNSHINE COAST REGIONAL DISTRICT
 WOODCREEK WASTEWATER MANAGEMENT UPGRADING
 SEPTIC TANKS, RECIRCULATING SAND FILTER

SCALE: 1:100
 DRAWING No. 28.143.2
 SHEET 2 OF 8 ISSUE C
 THIS DRAWING REDUCED TO HALF SIZE



CONTROL OPERATION - DISPOSAL DRAIN FIELDS	
<p>MONTH 1ST:</p> <p>DISPOSAL FIELD NO 1: 100% OF FLOW = 55m³/d</p> <p>DISPOSAL FIELD NO 2: RESTING</p> <p>OCEAN VIEW DISPOSAL FIELD : STAND BY</p>	<p>1. PUMP 5 TO BE ACTIVATED , RUN FOR 3.44MIN AND SHUT OFF. AFTER 5.57MIN RESTING TIME PUMP 6 TO BE RUN FOR 3.44MIN. AND WILL SHUT OFF FOR 5.57MIN. THE CYCLE TO BE REPEATED.</p> <p>THE PUMPS TO BE OPERATE @26.2 US gpm & 60 feet TDH.</p>
<p>MONTH 2ND:</p> <p>DISPOSAL FIELD NO 2: 100% OF FLOW = 55m³/d</p> <p>DISPOSAL FIELD NO 1: RESTING</p> <p>OCEAN VIEW DISPOSAL FIELD : STAND BY</p>	<p>1. PUMP 5 TO BE ACTIVATED , RUN FOR 5.2MIN AND SHUT OFF. AFTER 3.8MIN RESTING TIME PUMP 6 TO BE RUN FOR 5.2MIN. AND WILL SHUT OFF FOR 3.8MIN. THE CYCLE TO BE REPEATED.</p> <p>THE PUMP TO BE OPERATE @17.3 US gpm & 29 feet TDH.</p>
<p>OCEAN VIEW DISPOSAL FIELD : STAND BY OPERATION</p>	

CONTROL OPERATION - RECIRCULATION TANK (RATIO 5:1)
<p>INITIAL CYCLE, PUMPS 1 & 2 TO BE ACTIVATED AND RUN FOR 2.7MIN. THEN PUMPS 1 & 2 WILL SHUT OFF. AFTER 2.3MIN RESTING TIME 3 & 4 DUPLEX PUMP TO BE ACTIVATED, RUN FOR 2.3MIN AND TO SHUT OFF FOR 2.7MIN. THE CYCLE TO BE REPEATED INDEFINITELY. THE PUMPS TO BE OPERATE @46.3 US gpm & 39 feet TDH.</p>

- SUMMARY SPECIFICATIONS FOR CONSTRUCTION OF DISPOSAL FIELD NO 1 & 2 , AND OCEAN VIEW**
- LOCATION AND ELEVATION OF EXIST. SEWER PIPES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - CONSTRUCT DISPOSAL FIELDS AS ILLUSTRATED IN TYPICAL TRENCH DETAIL. REMOVE ALL TREES AND BUSHES. LEVEL AREA FOR EACH FIELD. IMPORT 1/4" PEA GRAVEL IF REQ'D TO ACHIEVE MIN FILL FOR TRENCH AND TO LEVEL FIELD. IMPORTED PEA GRAVEL TO BE COMPACTED.
 - 380 AND 320 PVC PIPES SHALL BE CLASS 160 PVC (DR 26) 250 PIPES SHALL BE CLASS 200 PVC (DR21). ALL PIPES TO BE SOLVENT WELD JOINTS. FITTING SHALL BE SCHEDULE 40 AND SUPPLIED BY THE PIPE MANUFACTURER.
 - DISPOSAL FIELDS SHALL BE TESTED USING WATER AS DIRECTED BY ENGINEER.

ACAD DWG. 28-143-2B 1:250 99-03-02

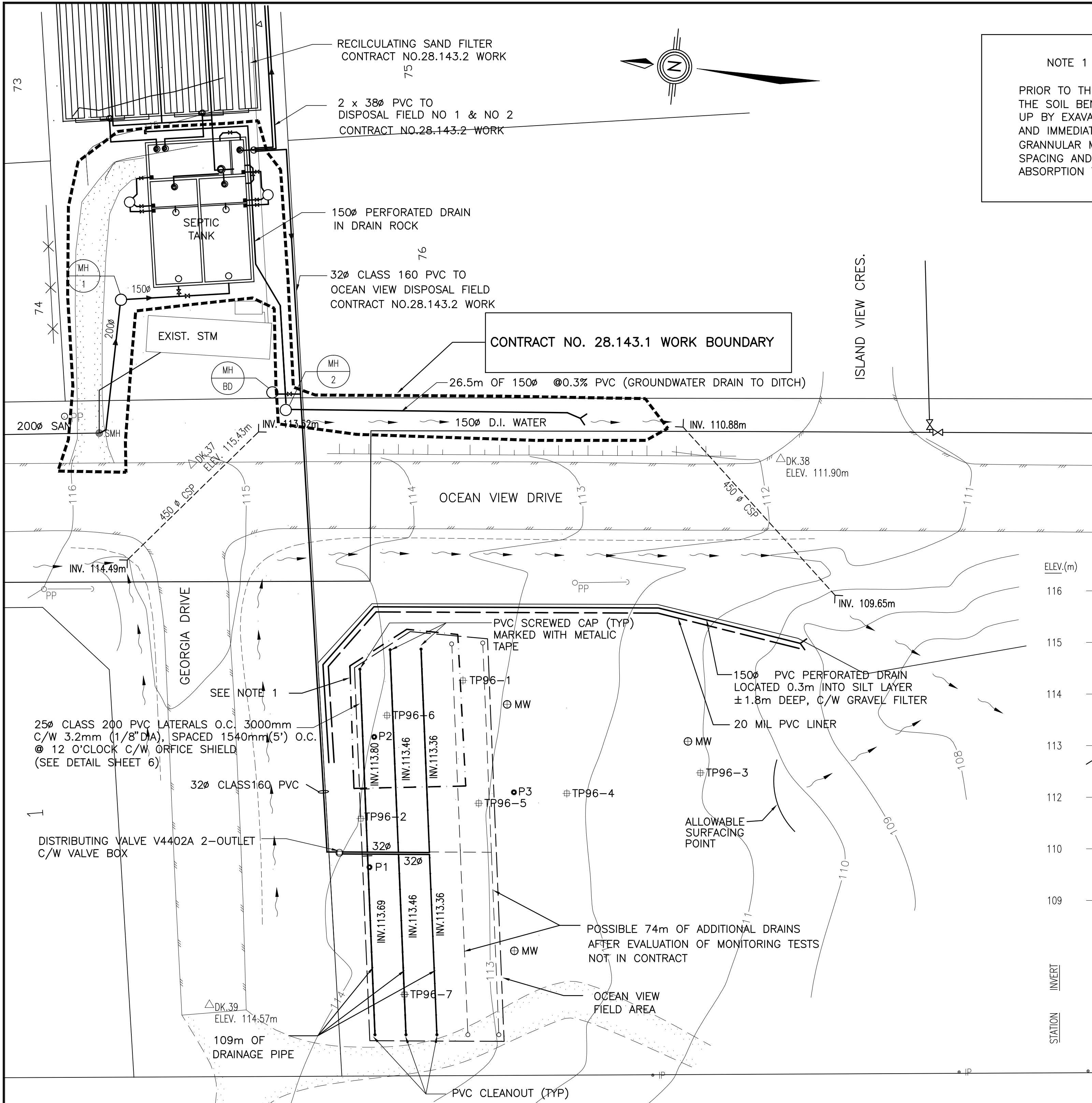
ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
B	FEB-98	IW			MOE PERMIT REQ'D.
C	MAR-99	KRC			RECORD DRAWING

DESIGNED IW
 DRAWN IW
 CHECKED _____



SUNSHINE COAST REGIONAL DISTRICT
 WOODCREEK WASTEWATER MANAGEMENT UPGRADING
 DISPOSAL FIELD - DETAILS

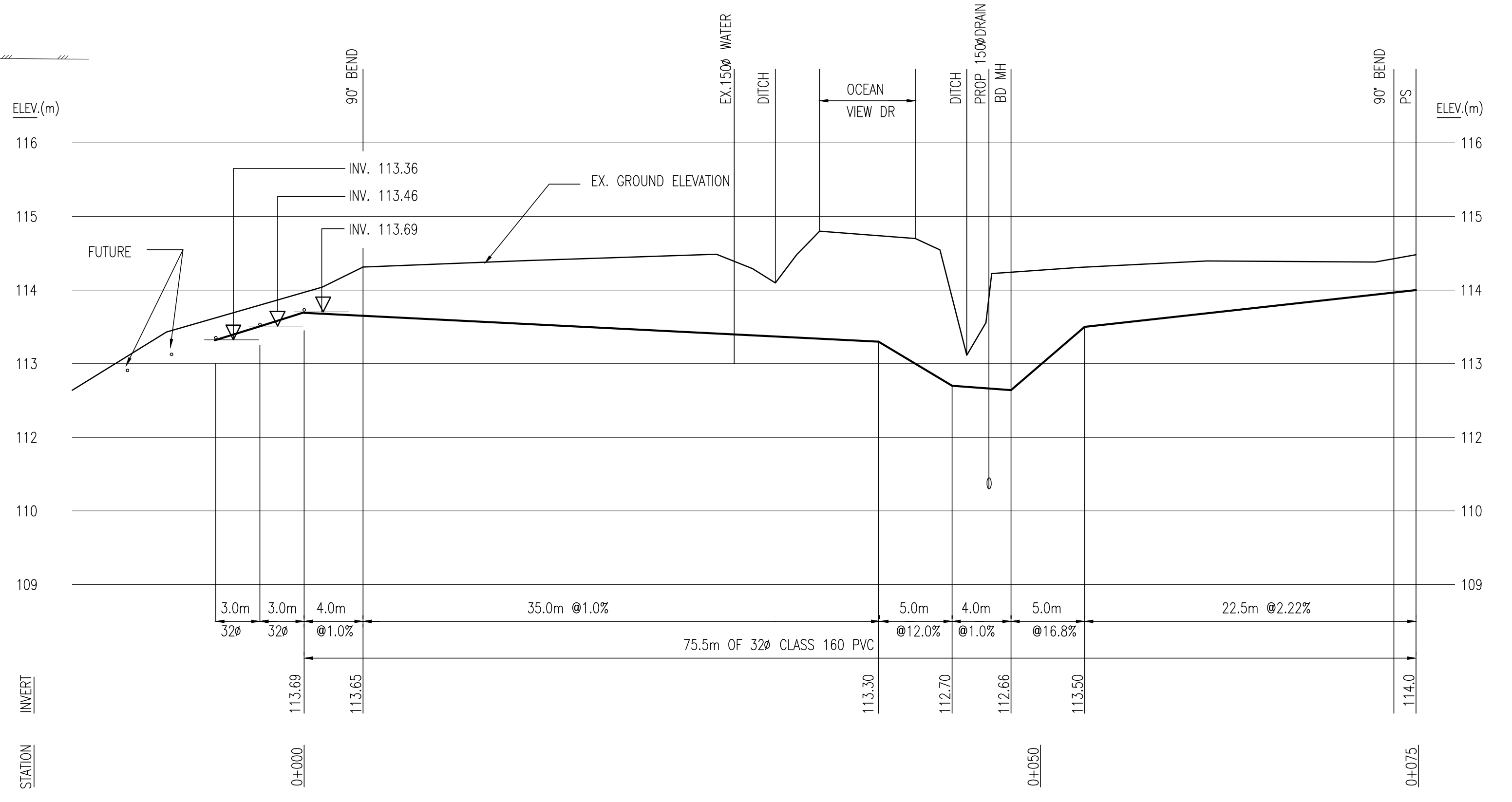
SCALE: 1:250
 DRAWING No. 28.143.2
 SHEET 3 OF 8 ISSUE C
 THIS DRAWING REDUCED TO HALF SIZE



NOTE 1
 PRIOR TO THE INSTALLATION OF ABSORPTION TRENCH THE SOIL BENEATH THE MARKED AREA TO BE BROCKEN UP BY EXAVATING TRENCHES TO THE SILT SURFACE ±1.4m AND IMMEDIATELY BACKFILLING THE TRENCHES WITH GRANNULAR MATERIAL. THE TRENCHES TO BE AT 2.0m SPACING AND TO BE ALIGNED PERPENDICULAR TO THE ABSORPTION TRENCHES.

OCEANVIEW FIELD PLAN
 SCALE 1:250
 CONTRACT NO.28.143.2 WORK

TP96-1 TEST PIT
 ● P2 PERCOLATION TEST
 ⊙ MW MONITORING WELL



PROFILE
 SCALE
 VER 1:50
 HOR 1:250

ACAD DWG. 28-143-2C 4:1 99-03-02

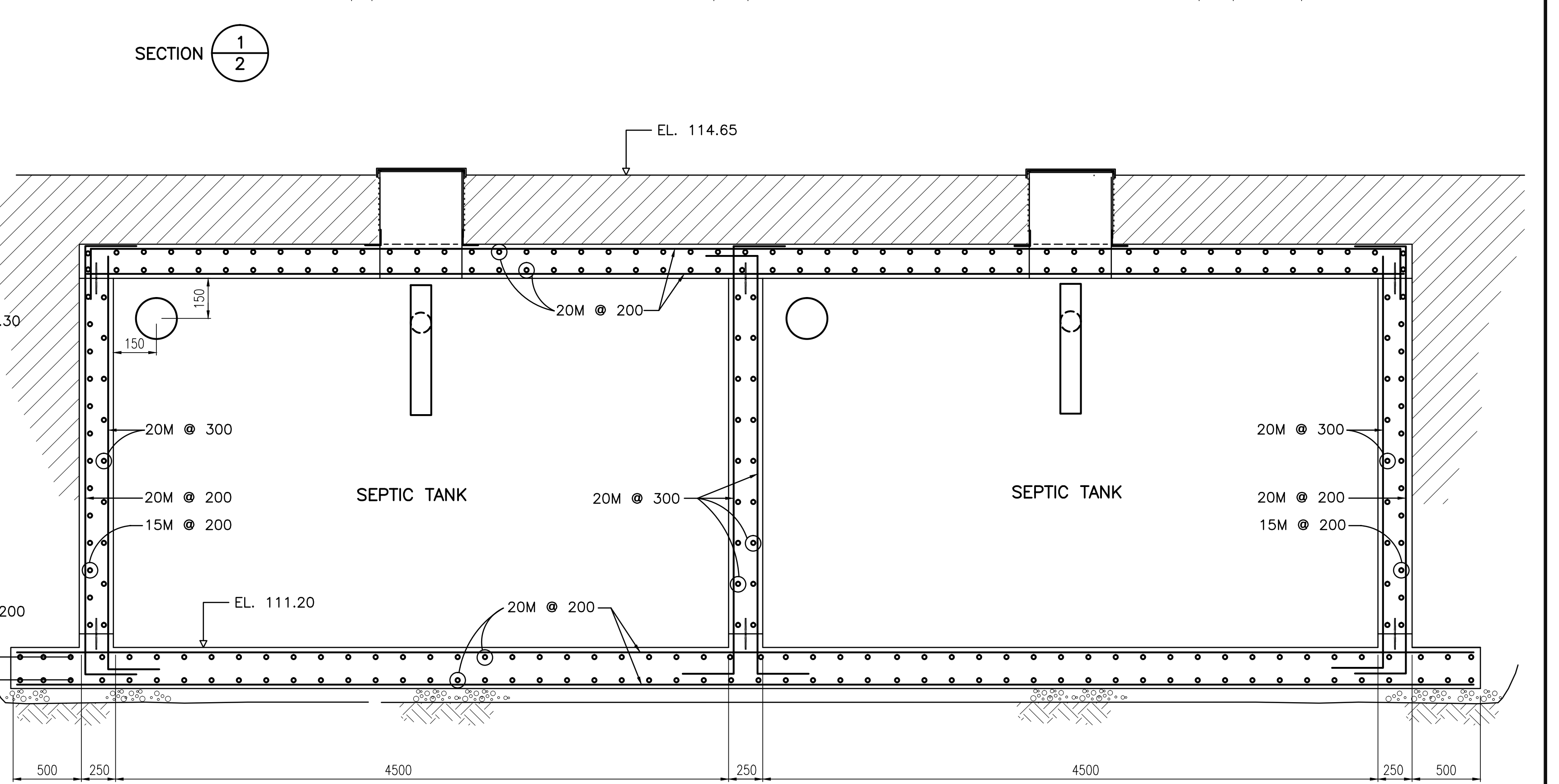
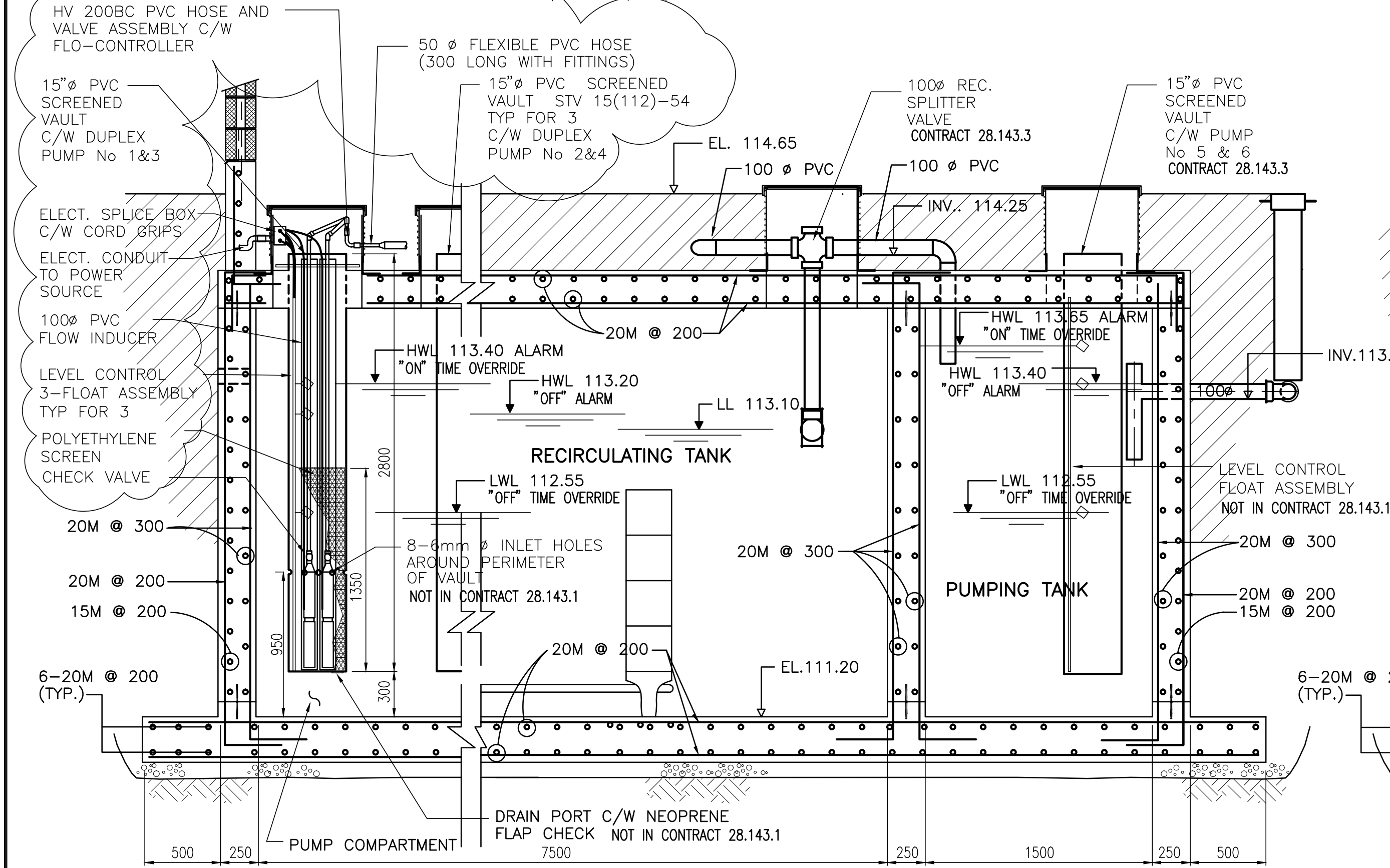
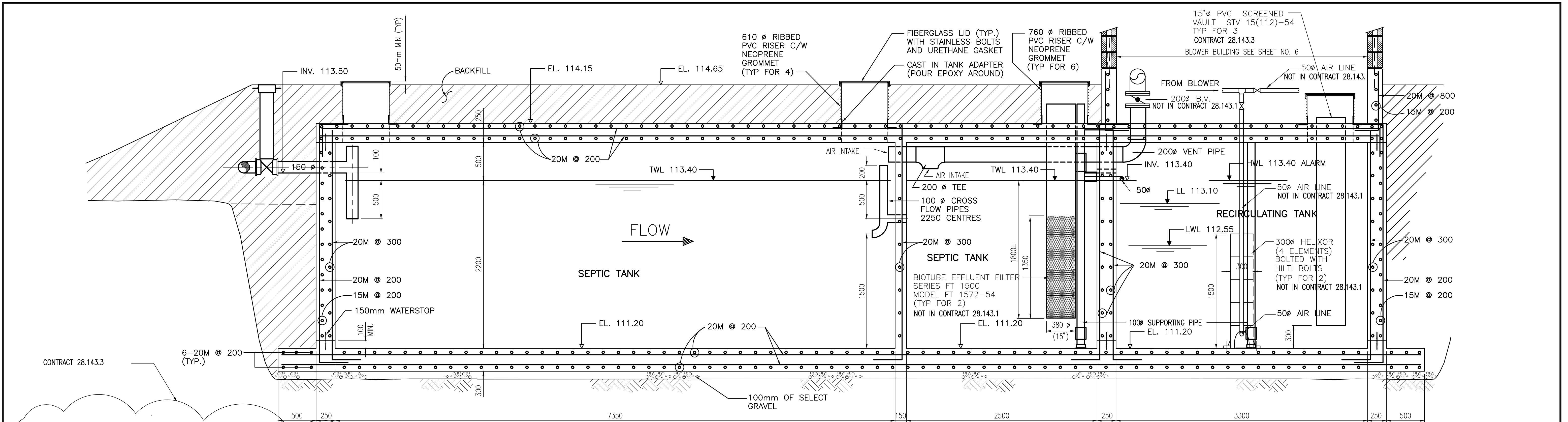
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B	FEB-98	IW			MOE PERMIT REQ'D						
C	FEB-99	IW			RECORD DRAWING						

DESIGNED AB/IW
 DRAWN IW
 CHECKED _____



SUNSHINE COAST REGIONAL DISTRICT
 WOODCREEK WASTEWATER MANAGEMENT UPGRADING
 OCEANVIEW FIELD DRAIN AREA DETAIL

SCALE: 1:250
 DRAWING No. 28.143.2
 SHEET 4 OF 8 ISSUE C
 THIS DRAWING REDUCED TO HALF SIZE



SEPTIC TANK SECTIONS
NOT IN CONTRACT 28.143.2

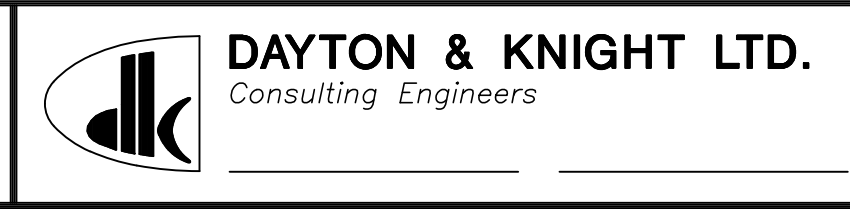
NOTE:
EXTRA REINFORCING AT ALL OPENINGS.

ACAD DWG. 28-143-2D 1:25 99-03-02

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
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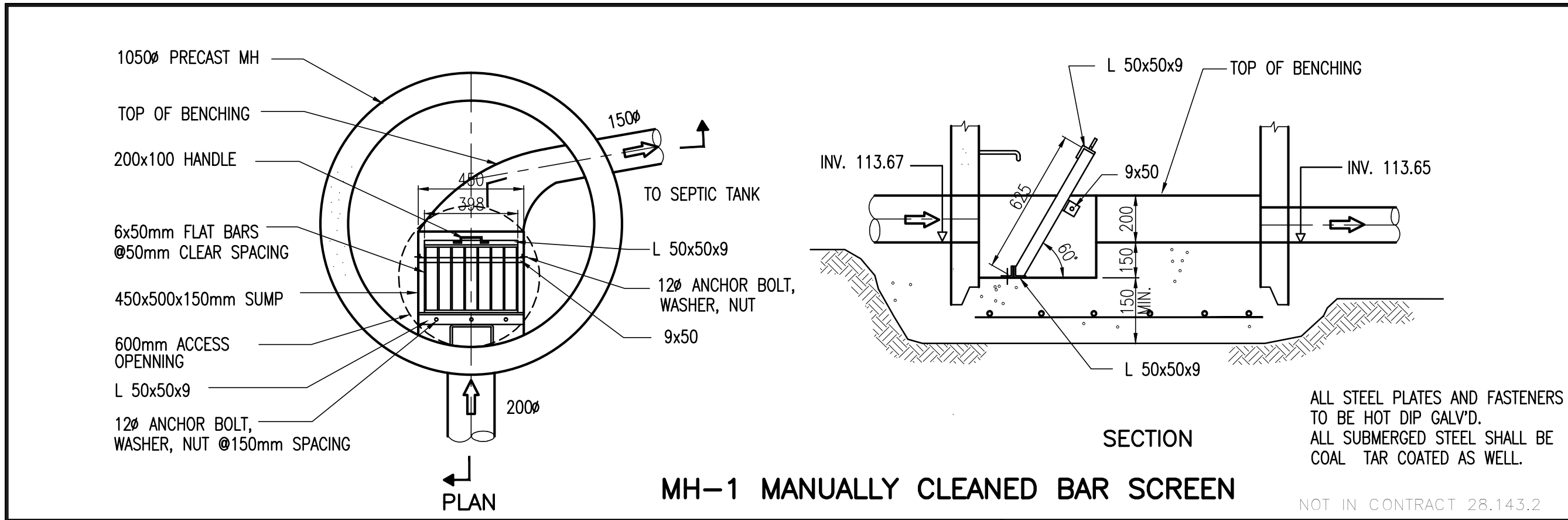
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DESIGNED A.B./IW
DRAWN KS
CHECKED _____

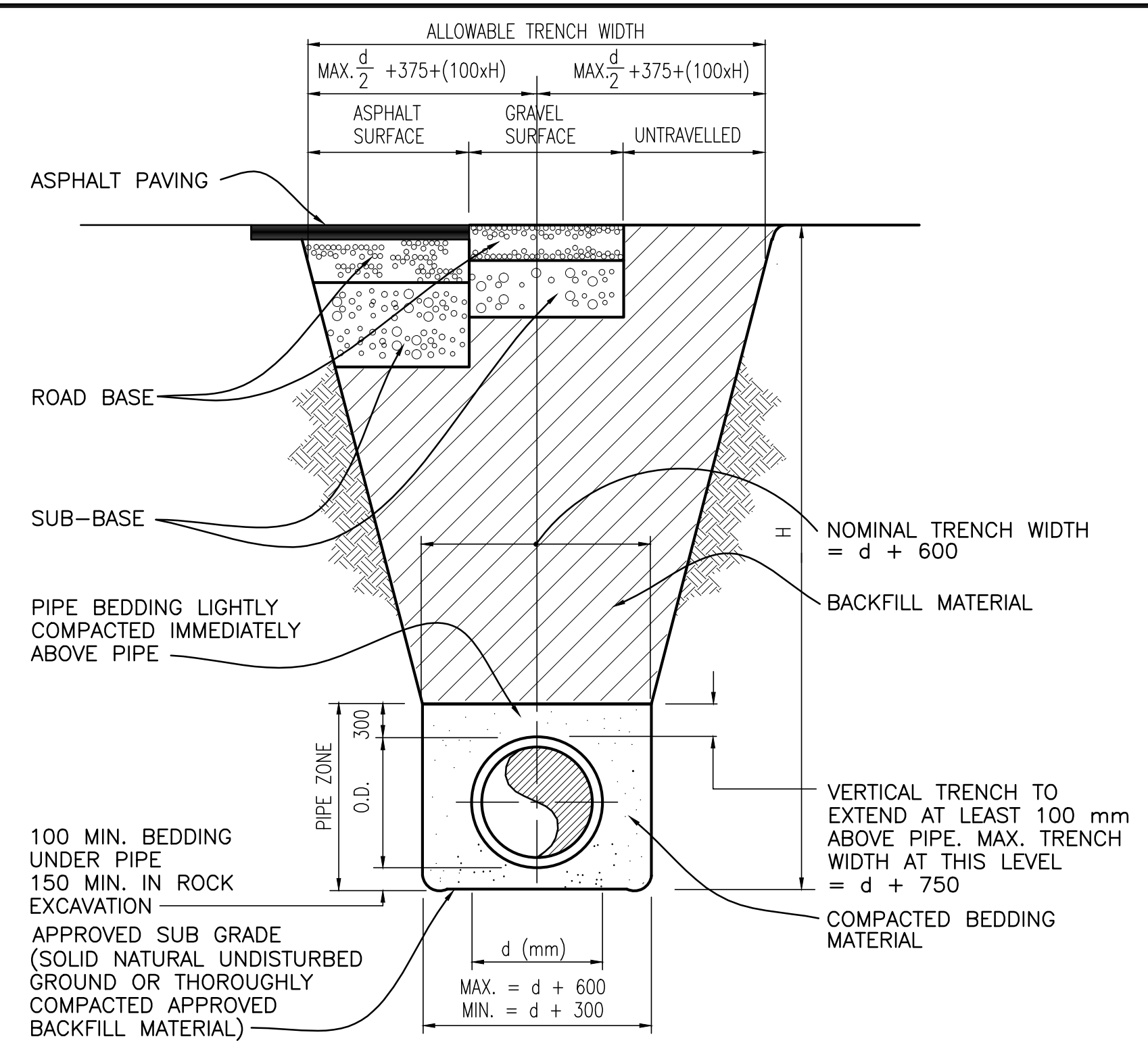


SUNSHINE COAST REGIONAL DISTRICT
WOODCREEK WASTEWATER MANAGEMENT UPGRADING
SEPTIC TANK - SECTIONS

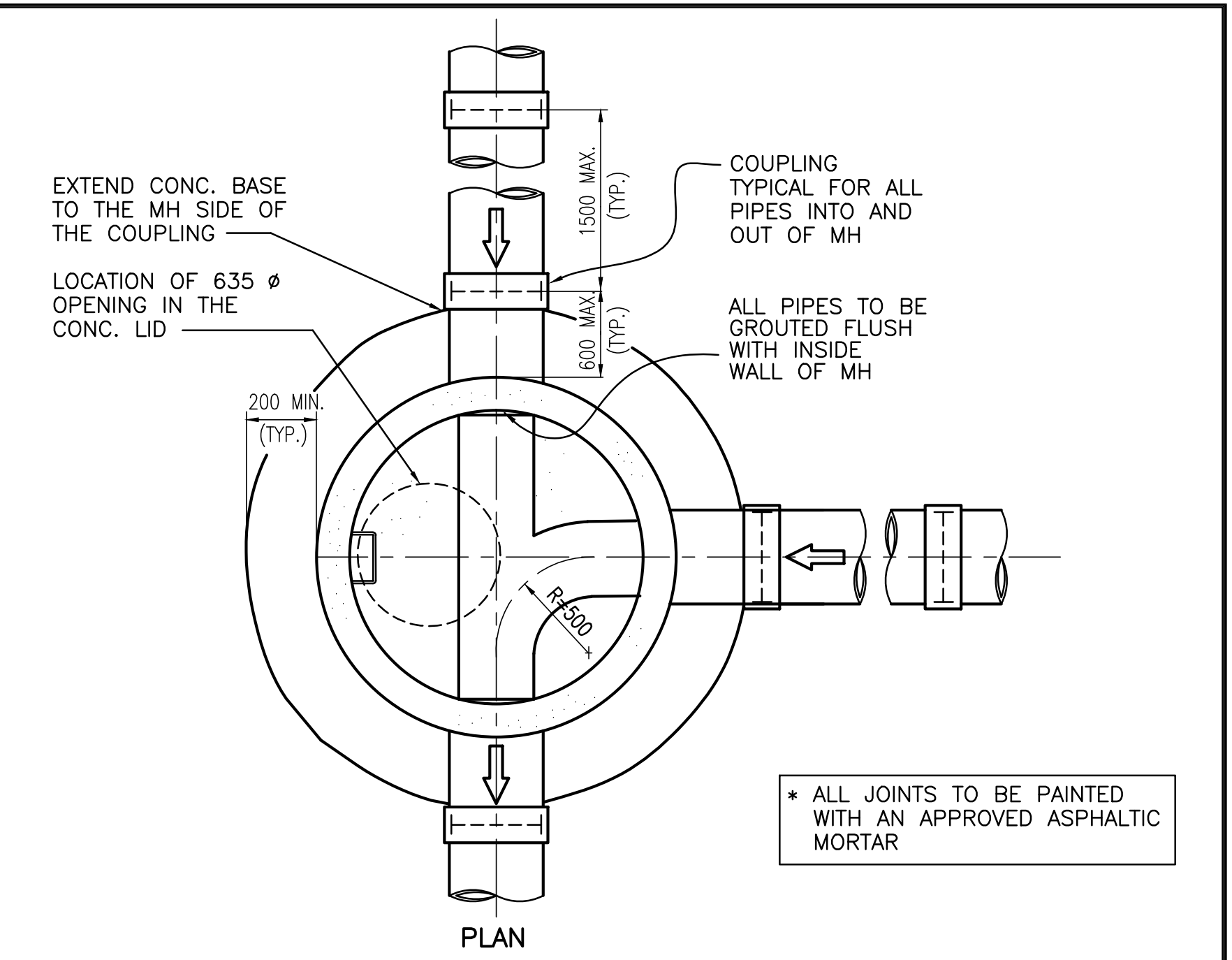
SCALE: 1:25
DRAWING No. 28.143.2
SHEET 5 OF 8 ISSUE C
THIS DRAWING REDUCED TO HALF SIZE



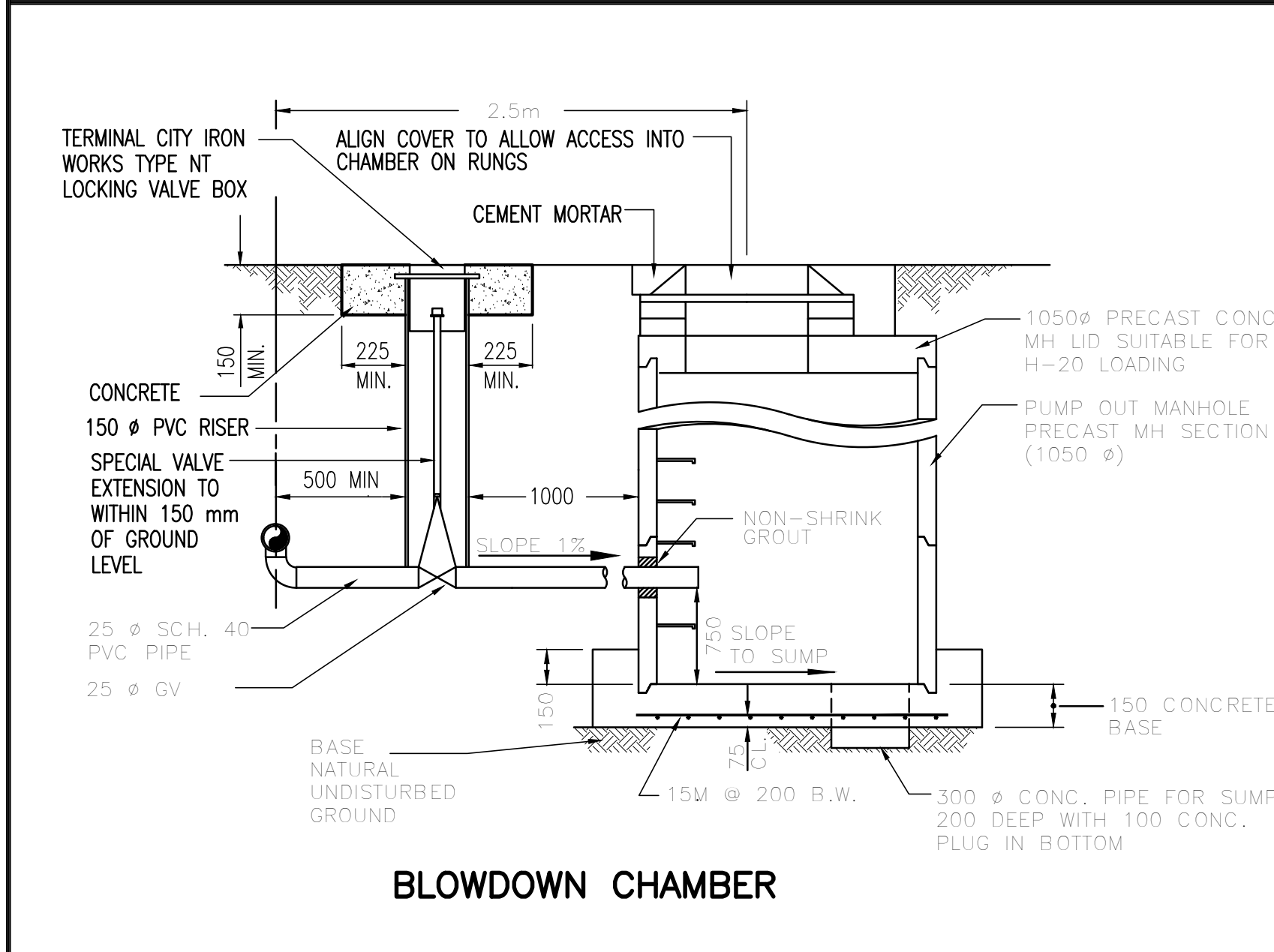
MH-1 MANUALLY CLEANED BAR SCREEN



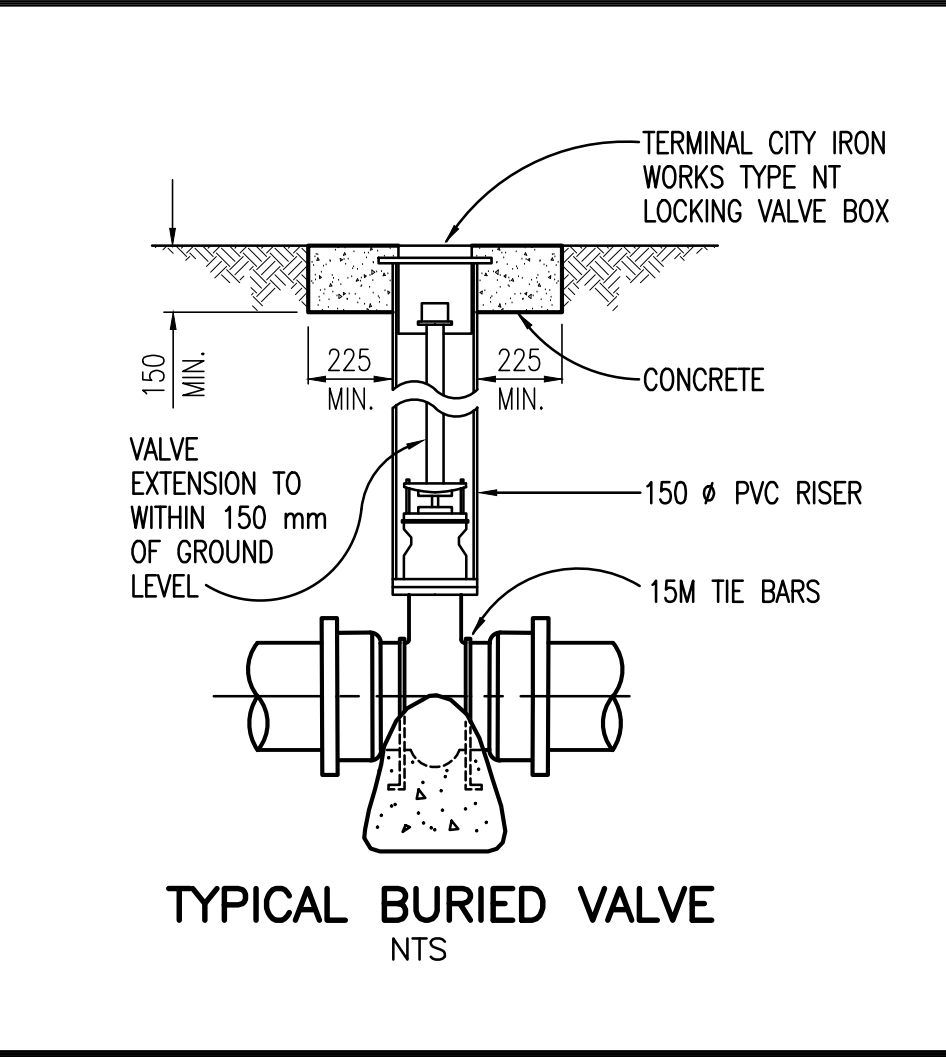
STANDARD TRENCH DETAIL



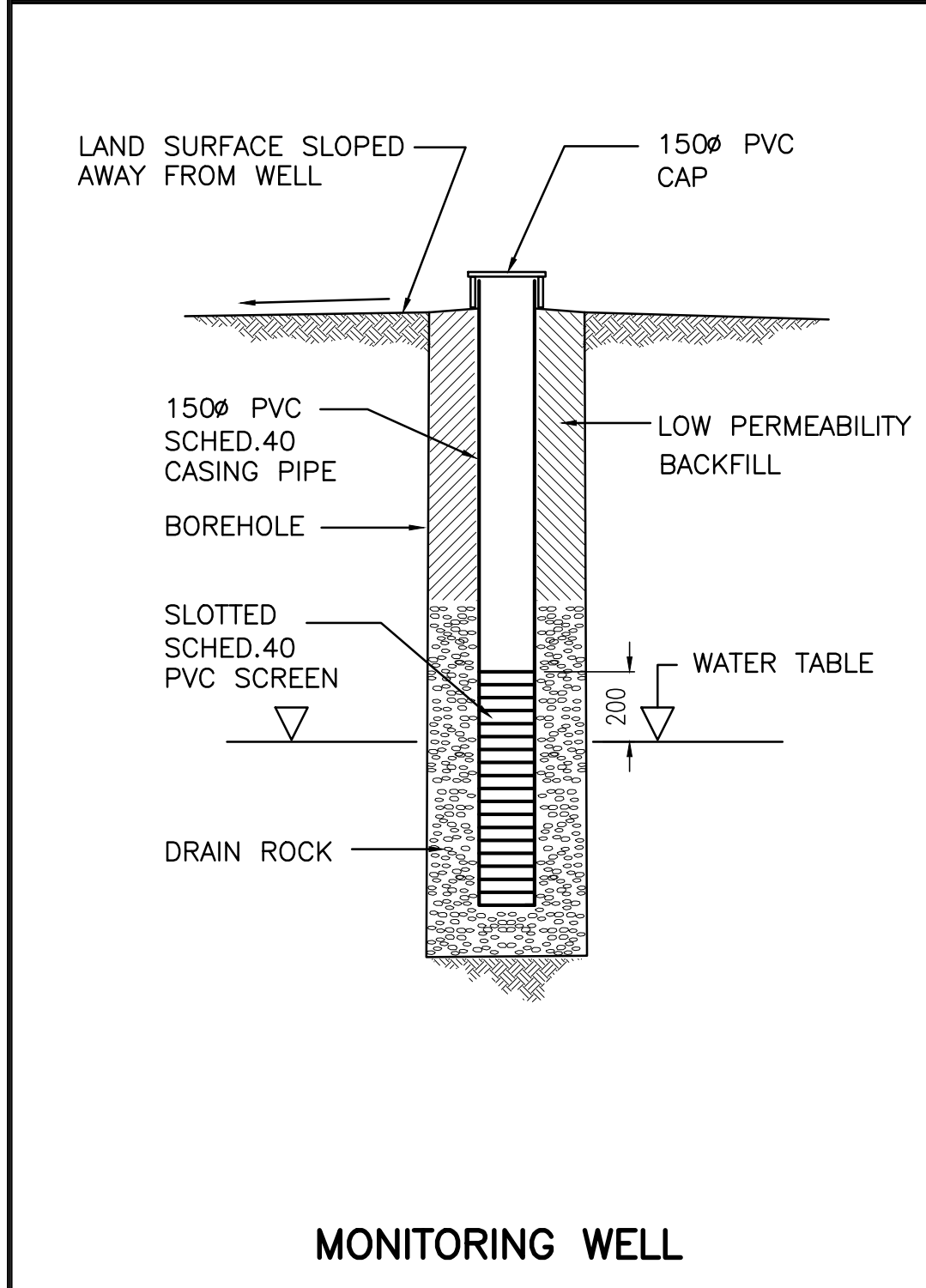
STANDARD MANHOLE DETAIL



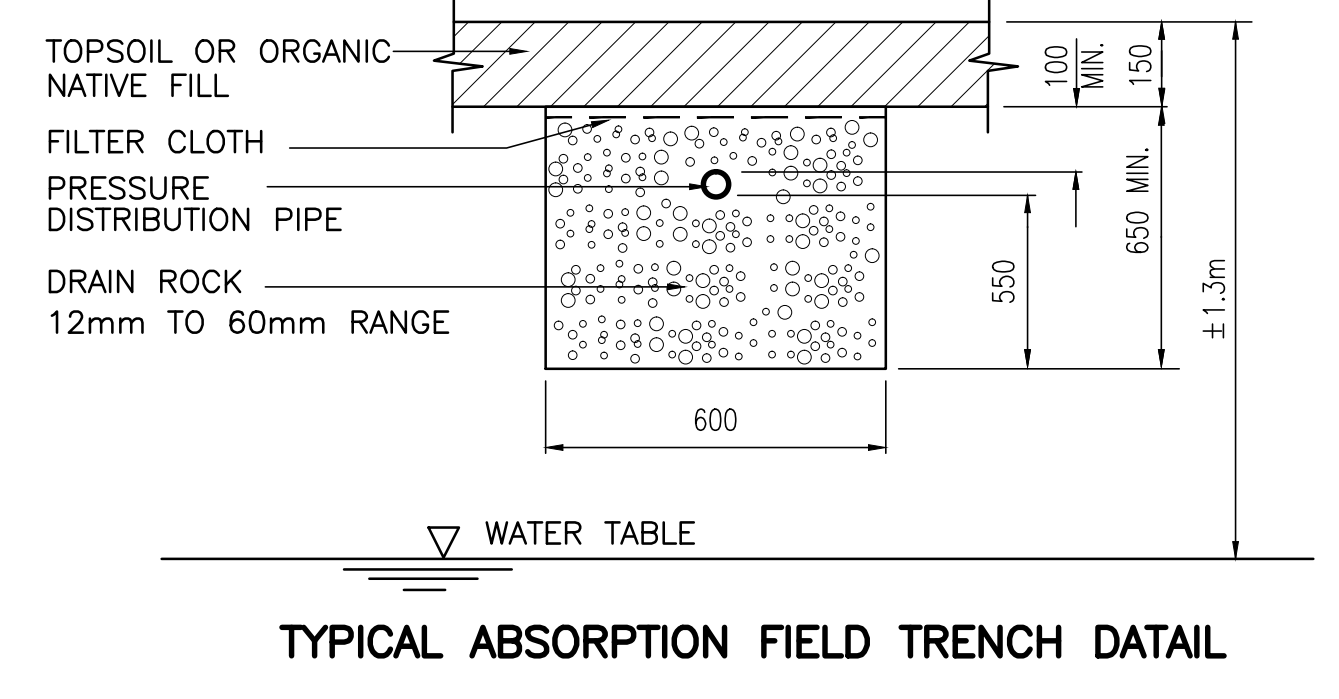
BLOWDOWN CHAMBER



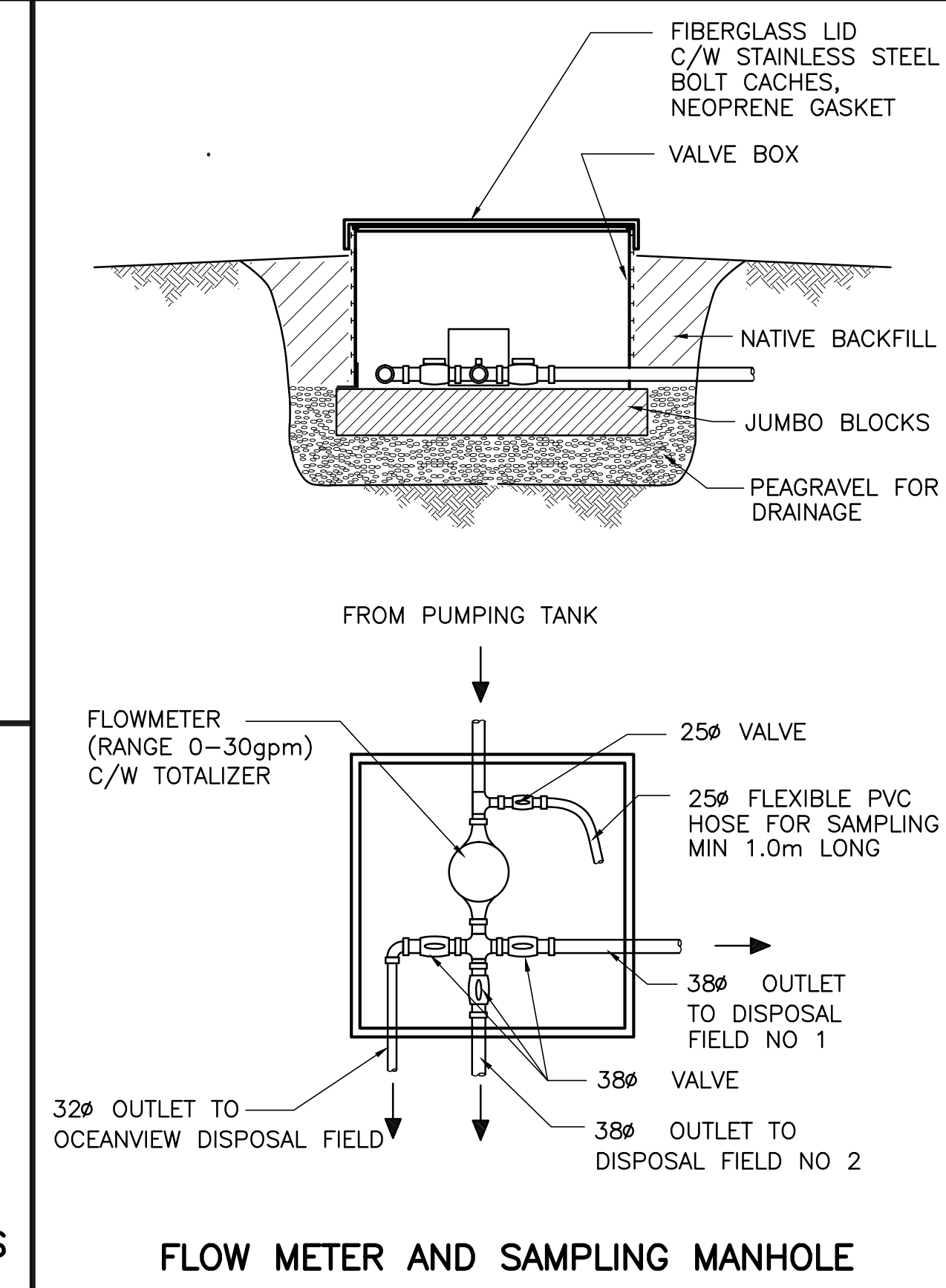
TYPICAL BURIED VALVE



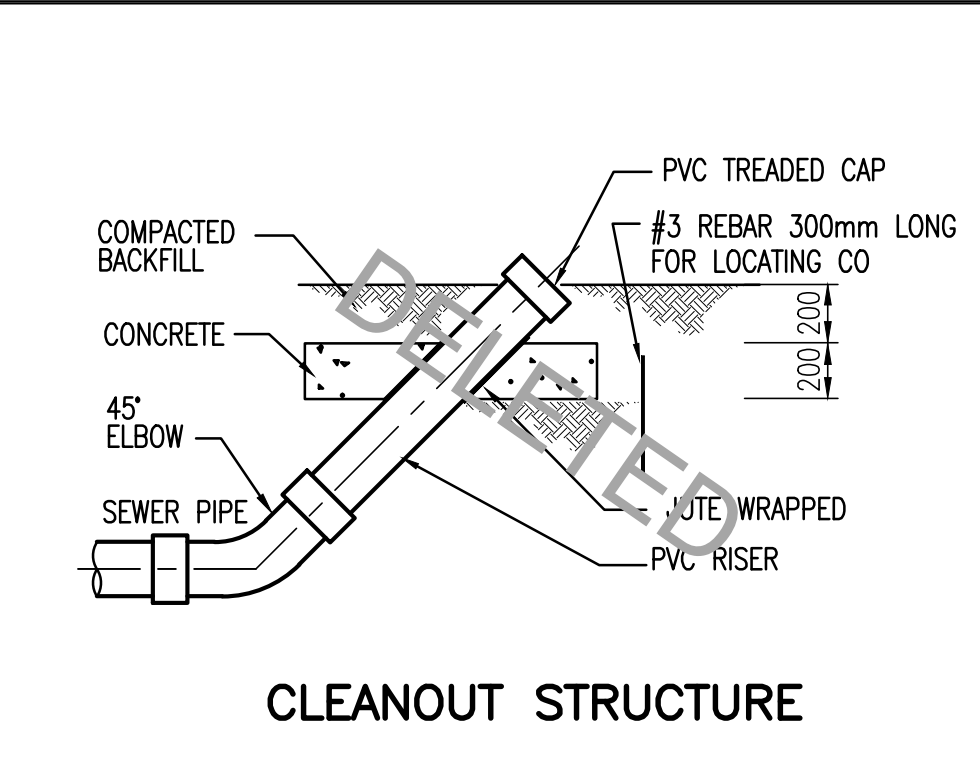
MONITORING WELL



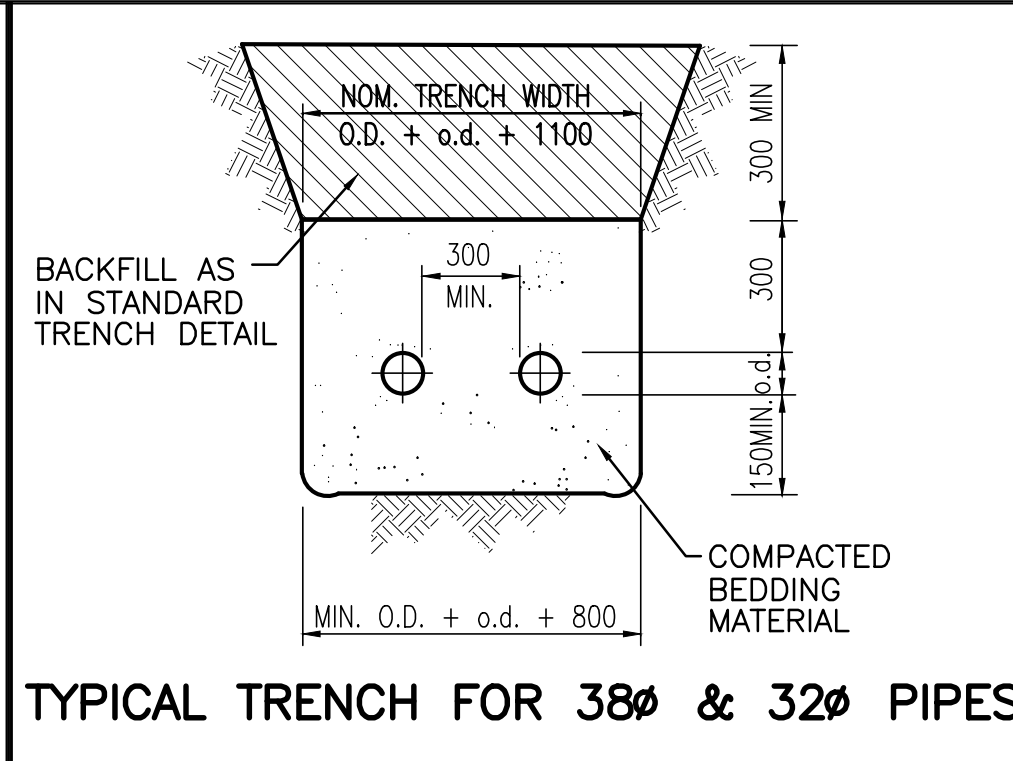
TYPICAL ABSORPTION FIELD TRENCH DETAIL



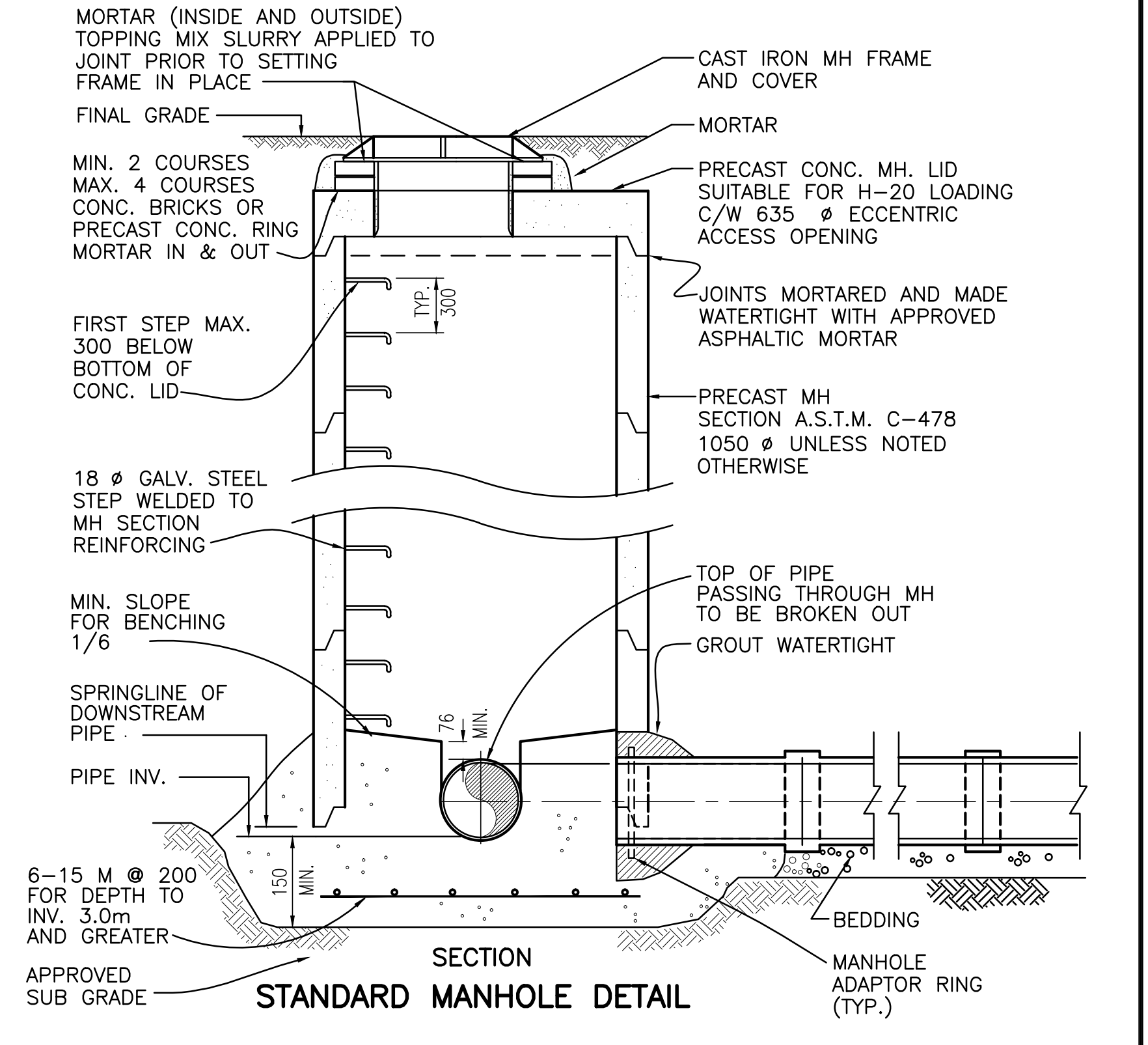
FLOW METER AND SAMPLING MANHOLE



CLEANOUT STRUCTURE

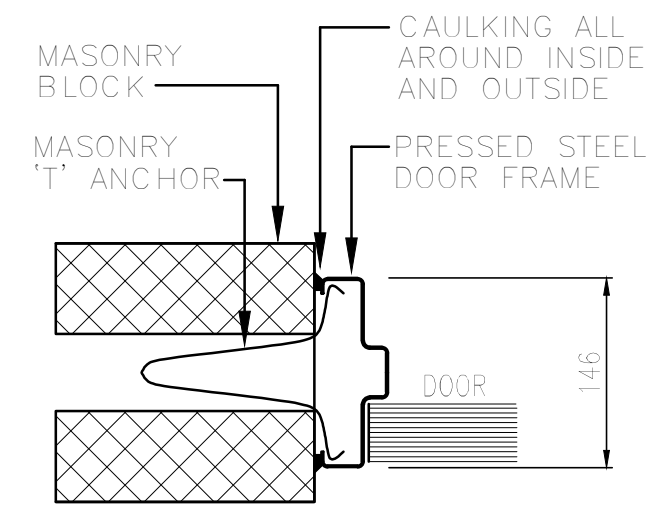
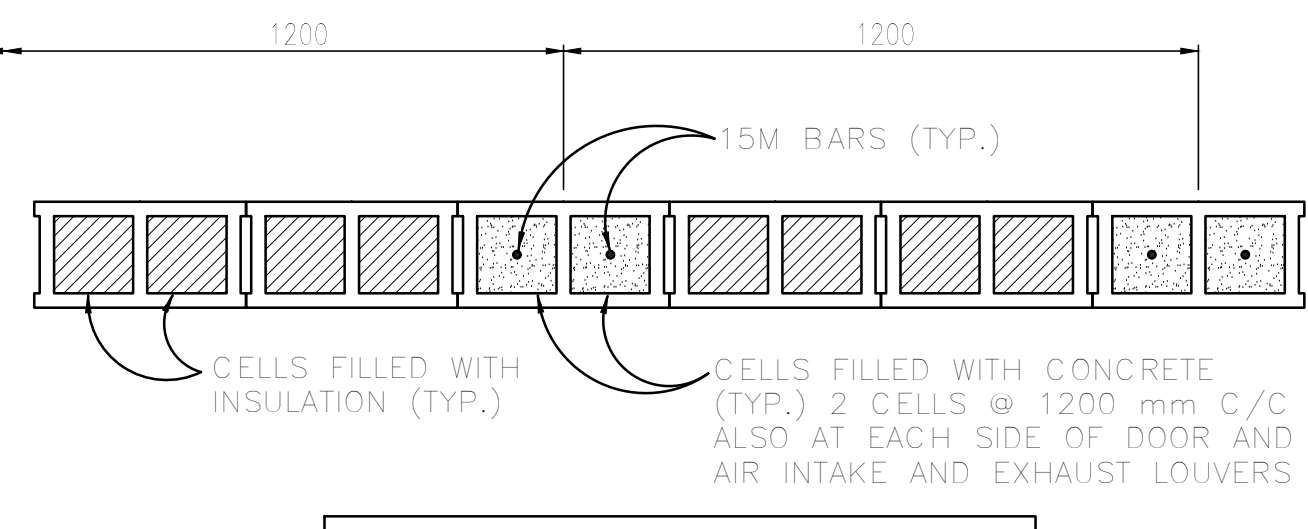
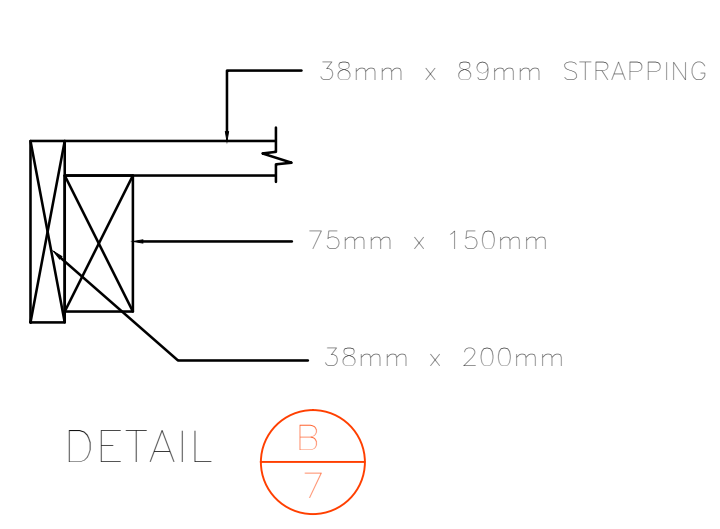
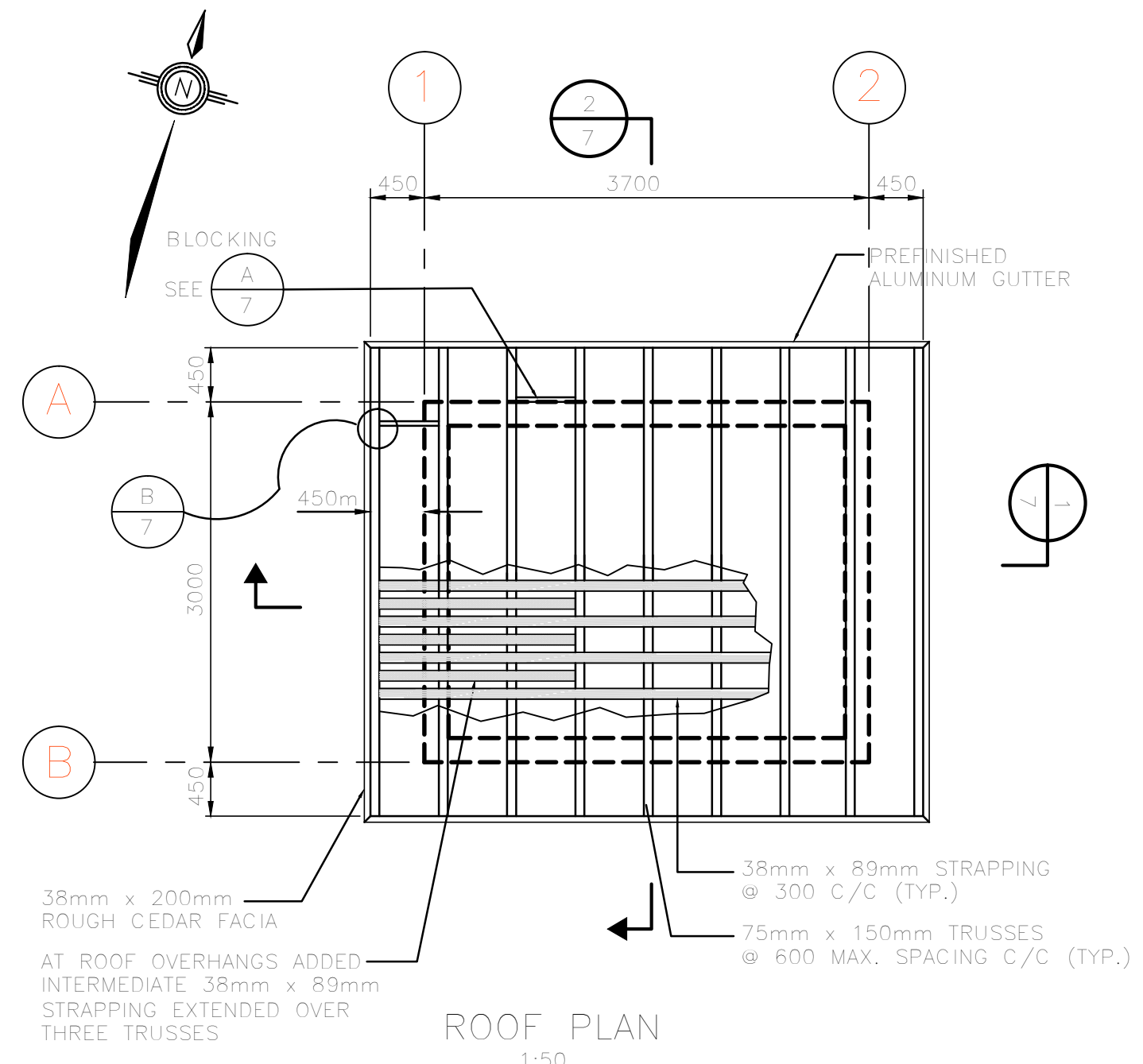


TYPICAL TRENCH FOR 38mm & 32mm PIPES



INFILTRATOR DISCHARGE DETAIL

ACAD DWG. 28-143-2E 1:100 99-03-02					ISSUE DATE DRAWN CHK'D APP'D					DESCRIPTION					DESIGNED IW			SUNSHINE COAST REGIONAL DISTRICT WOODCREEK WASTEWATER MANAGEMENT UPGRADING TYPICAL DETAILS					SCALE: N.T.S.	
REVISIONS					ISSUE DATE DRAWN CHK'D APP'D					DESCRIPTION					DRAWN IW			DRAWING No. 28.143.2 SHEET 6 OF 8 ISSUE C						
B FEB-98					MOE REQ'D					CHECKED		THIS DRAWING REDUCED TO HALF SIZE												



NUMBER	WIDTH-NOMINAL	HEIGHT-NOMINAL	THICKNESS	MATERIAL	FRAME	SWING	LATCHSET/LOCK	DOUBLE/LOCL	PANIC BAR	FLUSH BOLTS (C)	CLOSER	STOP	ASSEMBLY	TRICK PLATE	THRESHOLD	BUITS (SEIS)	REMARKS	
1	1100	1850	45	STEEL	STEEL	LHR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

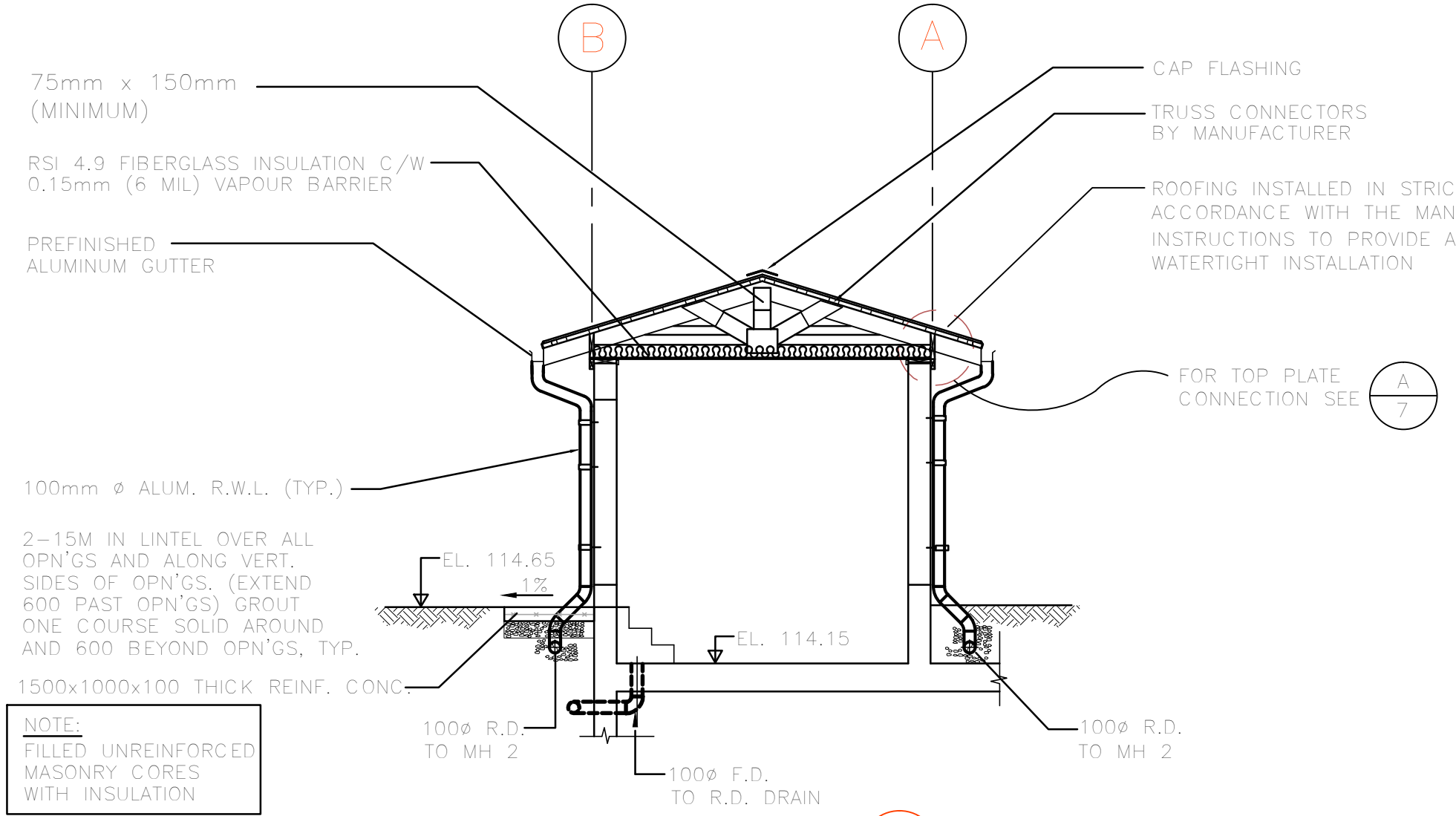
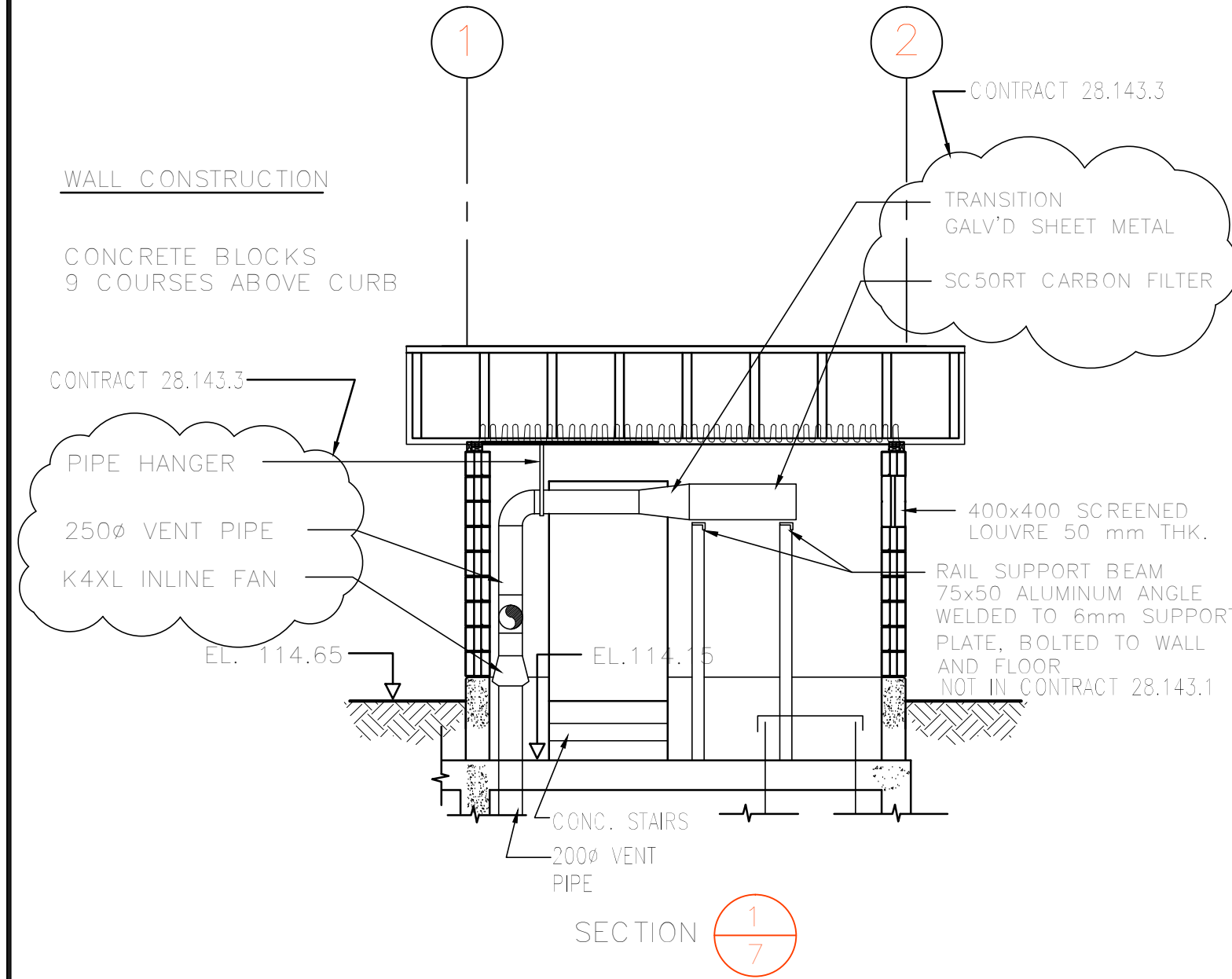
WOOD STRUCTURAL NOTES

- DESIGN LOAD - GROUND SNOW LOAD 2.5 KPa
- TRUSSES, BEAMS AND POSTS No.1 STRUCTURAL DOUGLAS FIR ROUGH SAWN FULL DIMENSION TIMBER
- TRUSS MANUFACTURER TO SUBMIT ENGINEERED DRAWINGS.
- ALL CONSTRUCTION CONFORMS TO THE LATEST EDITION OF THE NATIONAL BUILDING CODE

NOTE: ALL BLOCKS METRIC DIMENSIONS

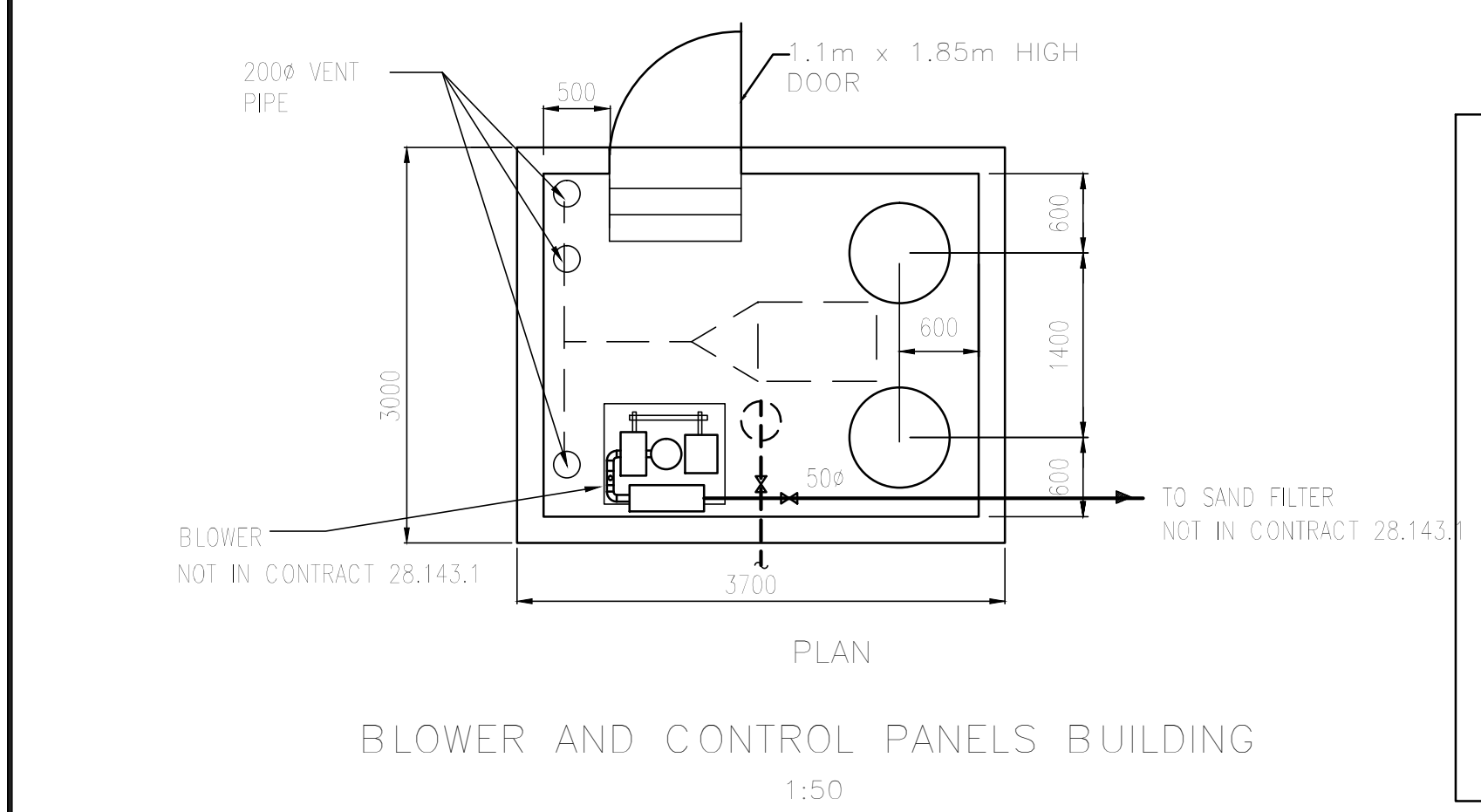
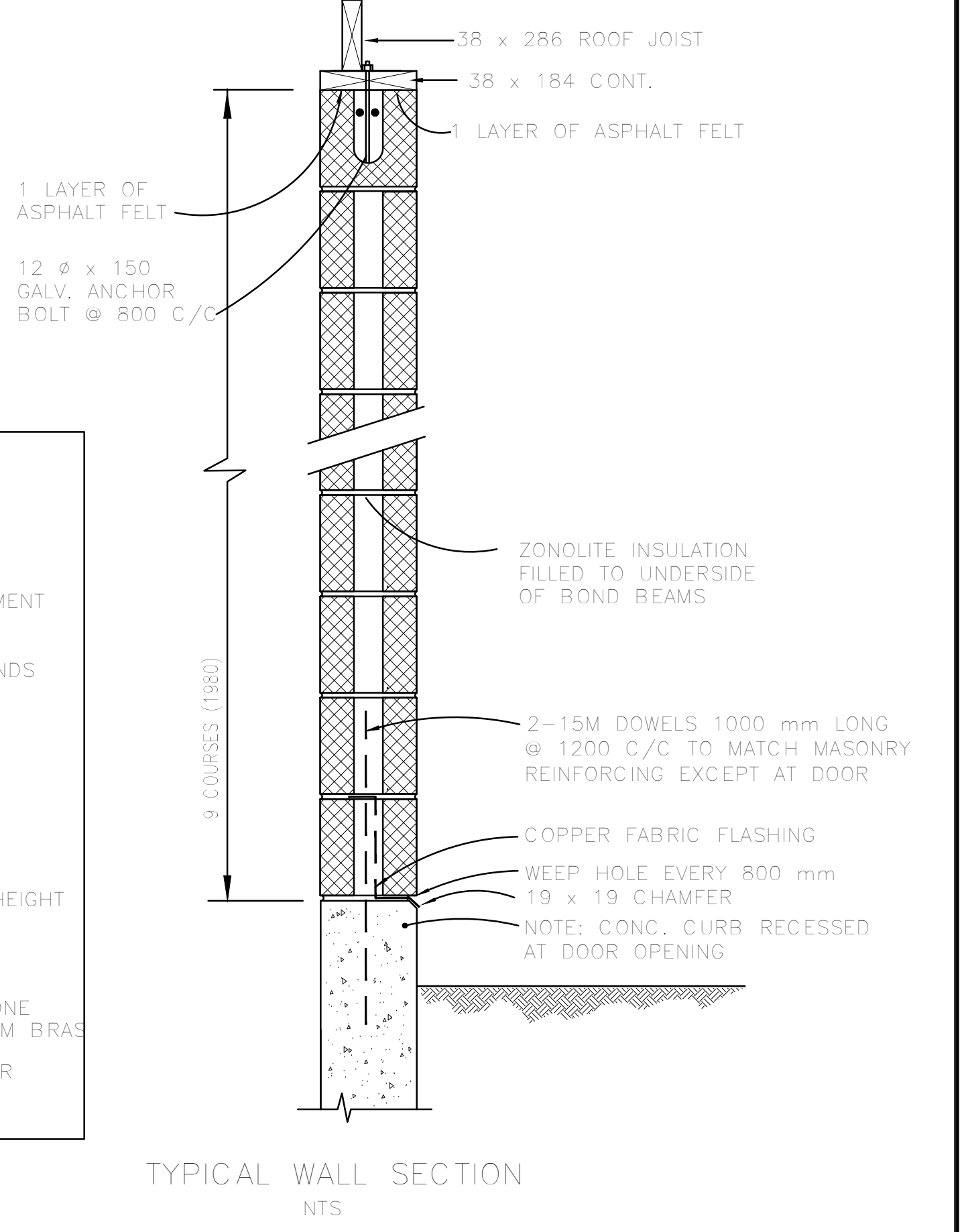
MASONRY DETAIL
NTS

MAN DOOR FRAME
NTS



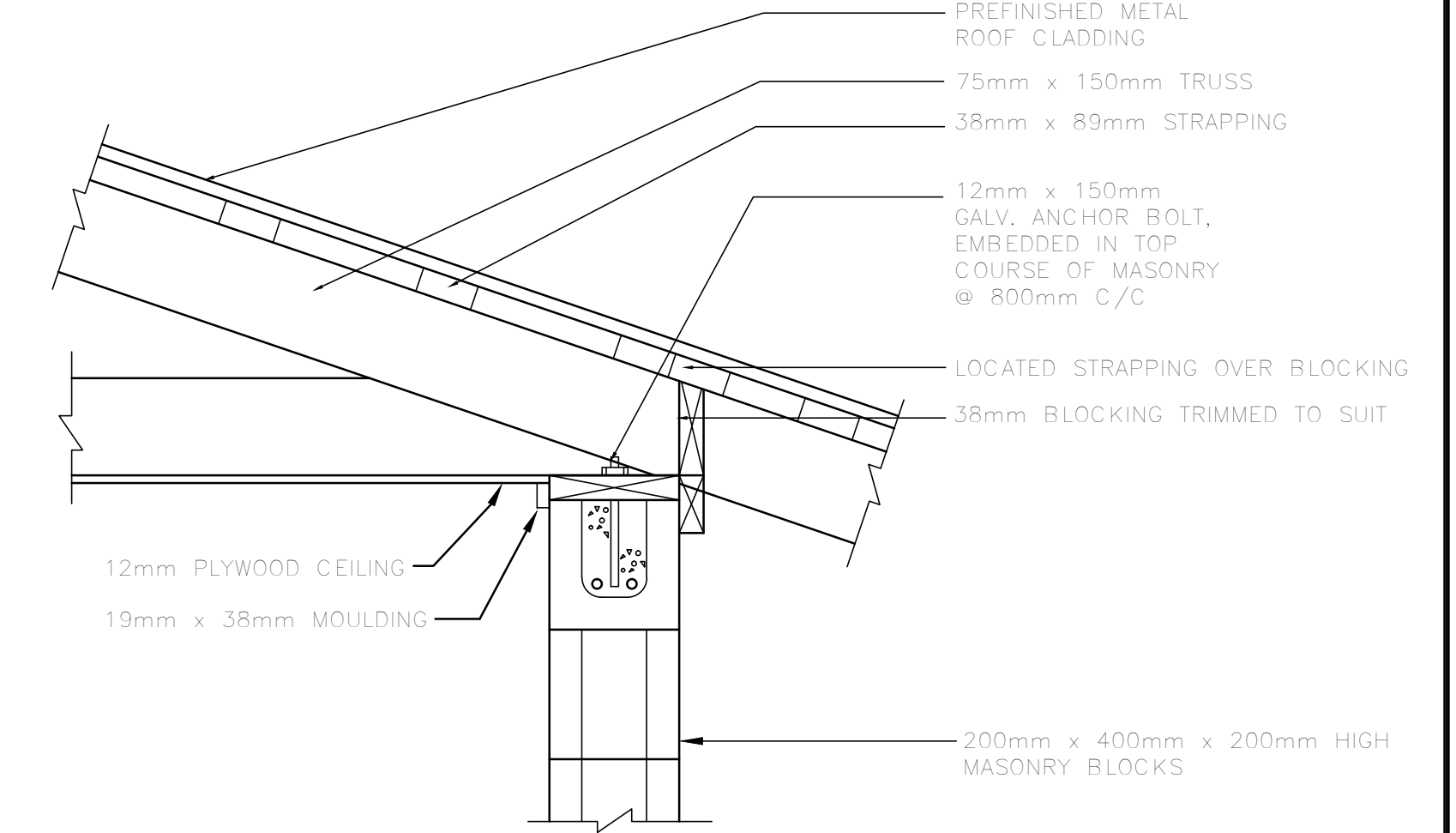
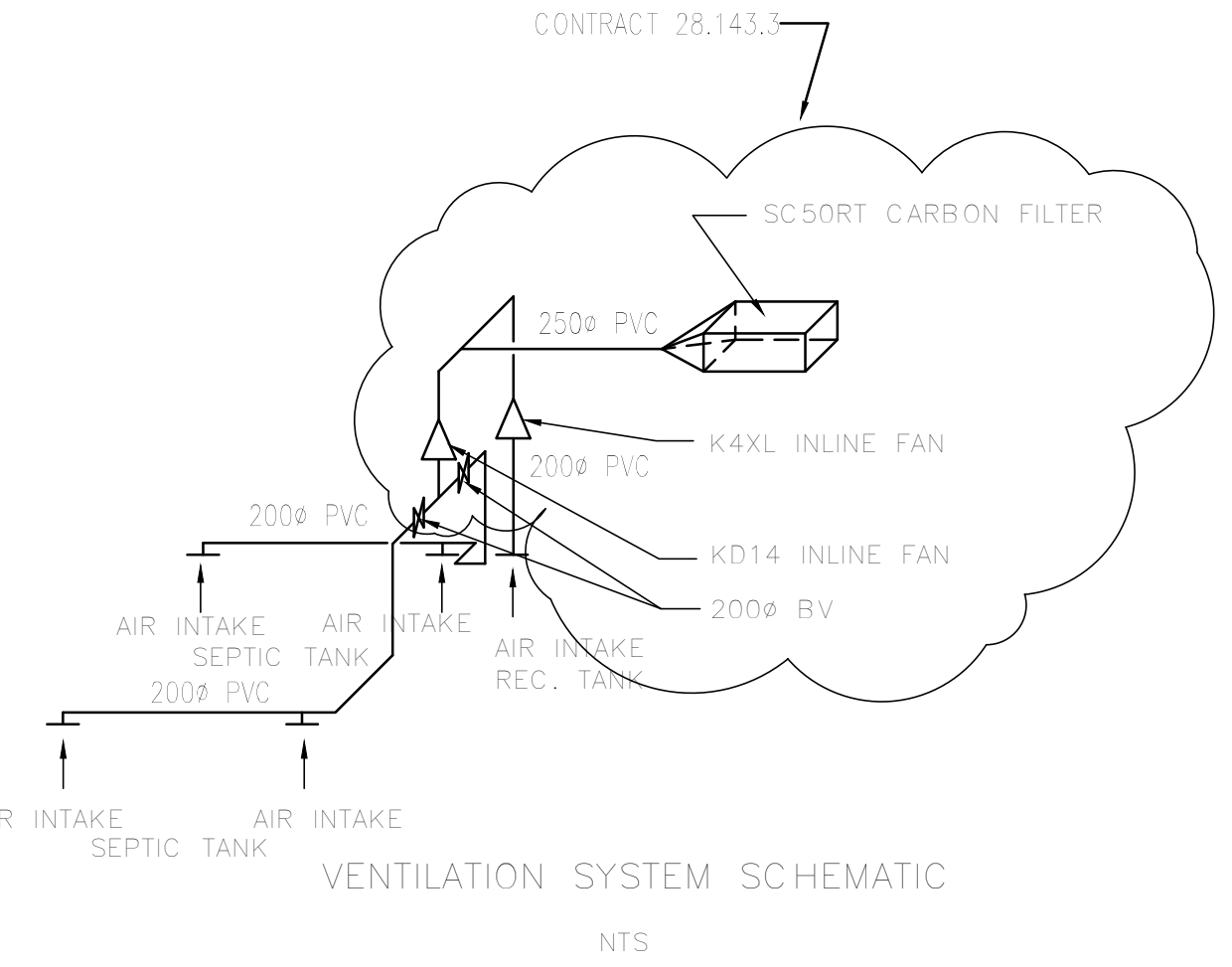
REINFORCED MASONRY NOTES

- CONCRETE FILL TWO VOIDS EVERY 1200 mm C/C AND REINFORCED WITH 2-15M BARS
- PROVIDE 4 mm (9 GAUGE) LADDER TYPE REINFORCEMENT HORIZONTALLY AT 400 mm C/C
- ADD ONE EXTRA 15M BAR AND CONCRETE FILL AT ENDS OF WALLS AND EACH SIDE OF DOORS
- MINIMUM BAR SPLICE 30 BAR DIAMETERS
- CONCRETE FILL IS 20 MPa AT 28 DAYS
- MORTAR TYPE 'S'
- PROVIDE DOWELS FROM FLOOR SLAB TO MATCH ALL VERTICAL BARS
- PROVIDE HORIZONTAL BOND BEAM AT TOP AND MID-HEIGHT OF ALL WALLS AS SHOWN. REINFORCE BOND BEAMS WITH 2-15M BARS
- RUN VERTICAL BARS THROUGH BOND BEAMS FOR LINTELS OVER DOOR AND WALL OPENINGS, FILL ONE COURSE WITH CONCRETE AND REINFORCE WITH 2-15M BARS
- MASONRY BLOCK CELLS TO BE FILLED WITH GRANULAR INSULATION, VERMICULITE OR APPROVED EQUAL



ROOFING NOTES

- PREFINISHED METAL ROOF CLADDING, 26 GAUGE PREPAINTED GALVANIZED SINGLE SKIN STEEL TO ASTM A446 GRADE A (VIC WEST STEEL DIAMOND RIB 30) 19mm RAISED RIB AT 150mm CENTERS
- PAINTED BAKED ENAMEL TO DOFASCO 5000 COLOUR SERIES (VIC WEST PC - 306)
- SCREWS #14 - 32mm GALVANIZED C/W WASHERS AND NEOPRENE SEALS
- CAULKING TREMCO 440 PREFORMED POLYISOBUTYL 1.6mm x 13mm TAPE
- ROOFING INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS TO PROVIDE A WATERTIGHT INSTALLATION



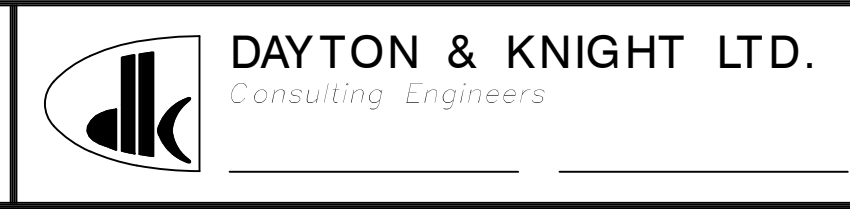
NOT IN CONTRACT 28.143.2

DETAIL
1:10

ACAD DWG. 28-143-2F 1:1 99-03-02

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
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C	FEB-99	IW			RECORD DRAWING						

DESIGNED IW
DRAWN IW
CHECKED _____

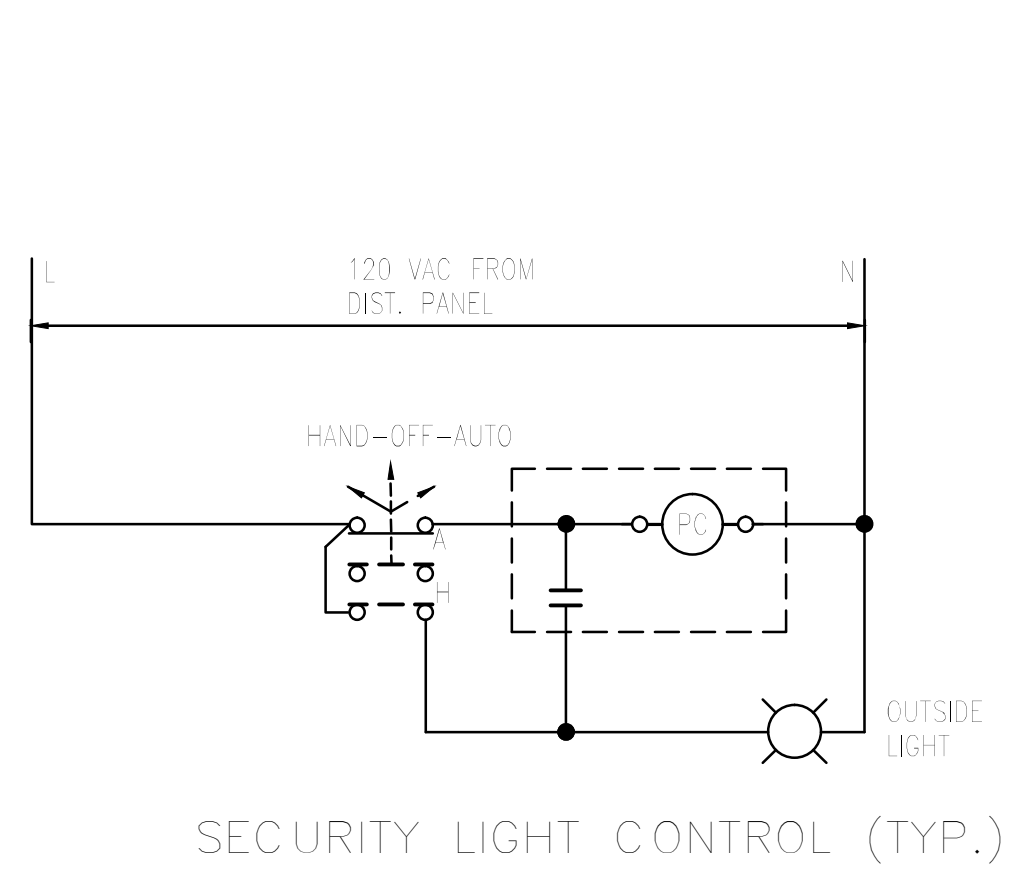


SUNSHINE COAST REGIONAL DISTRICT
WOODCREEK WASTEWATER MANAGEMENT UPGRADING
BLOWER BUILDING

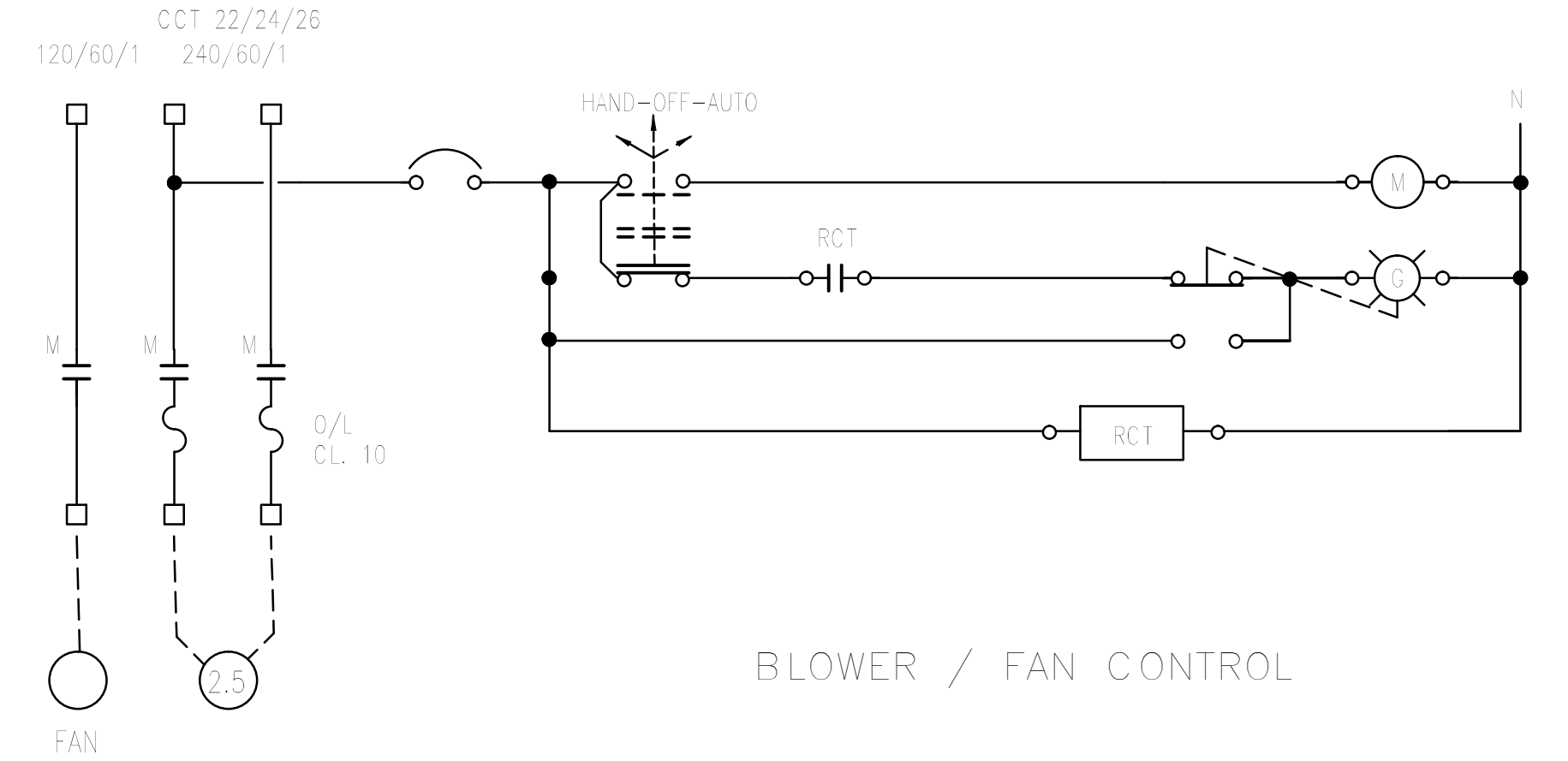
SCALE: AS SHOWN
DRAWING No. 28.143.2
SHEET 7 OF 8 ISSUE C
THIS DRAWING REDUCED TO HALF SIZE

PANEL No. _____, LOCATION _____, TYPE COMBINATION																		
VOLTS 120/240, PHASE SINGLE, WIRE 3, CIRCUITS 32, FEEDER B.G.H., BREAKER 100 A, BUSS 125 CU, MOUNTING WALL _____																		
CIRC. No.	No. POLES	TRIP AMPS	SERVICE	A KVA	B KVA	C KVA	WIRE SIZE	REMARKS	CIRC. No.	No. POLES	TRIP AMPS	SERVICE	A KVA	B KVA	C KVA	WIRE SIZE	REMARKS	
1	1	15	INSIDE LIGHTING	0.2			#12		2	2	40	QUADPLEX PUMP	4.0			#8		
3	1	15	SECURITY LIGHTING		0.1		#12		4	↓	↓	CONTROL PANEL "A"	4.0			#8		
5									6	2	20	DUPLEX PUMP	2.0			#10		
7									8	↓	↓	CONTROL PANEL "B"	2.0			#10		
9	1		UTILITY REC.	0.4			#12		10	1	15	CONTROL POWER	0.1			#14		
11									12									
13									14									
15	2	15	HEATER		1.0		#12		16									
17	↓	↓			1.0		#12		18									
19									20									
21									22	3	20	BLOWER	0.9			#10		
23									24	↓	↓					#10		
25									26	↓	↓	FAN	0.1					
27									28									
29									30									
31									32									
SUB-TOTAL				1.6	1.1				SUB-TOTAL				7.1	6.9				
									TOTAL				8.7	8.0				

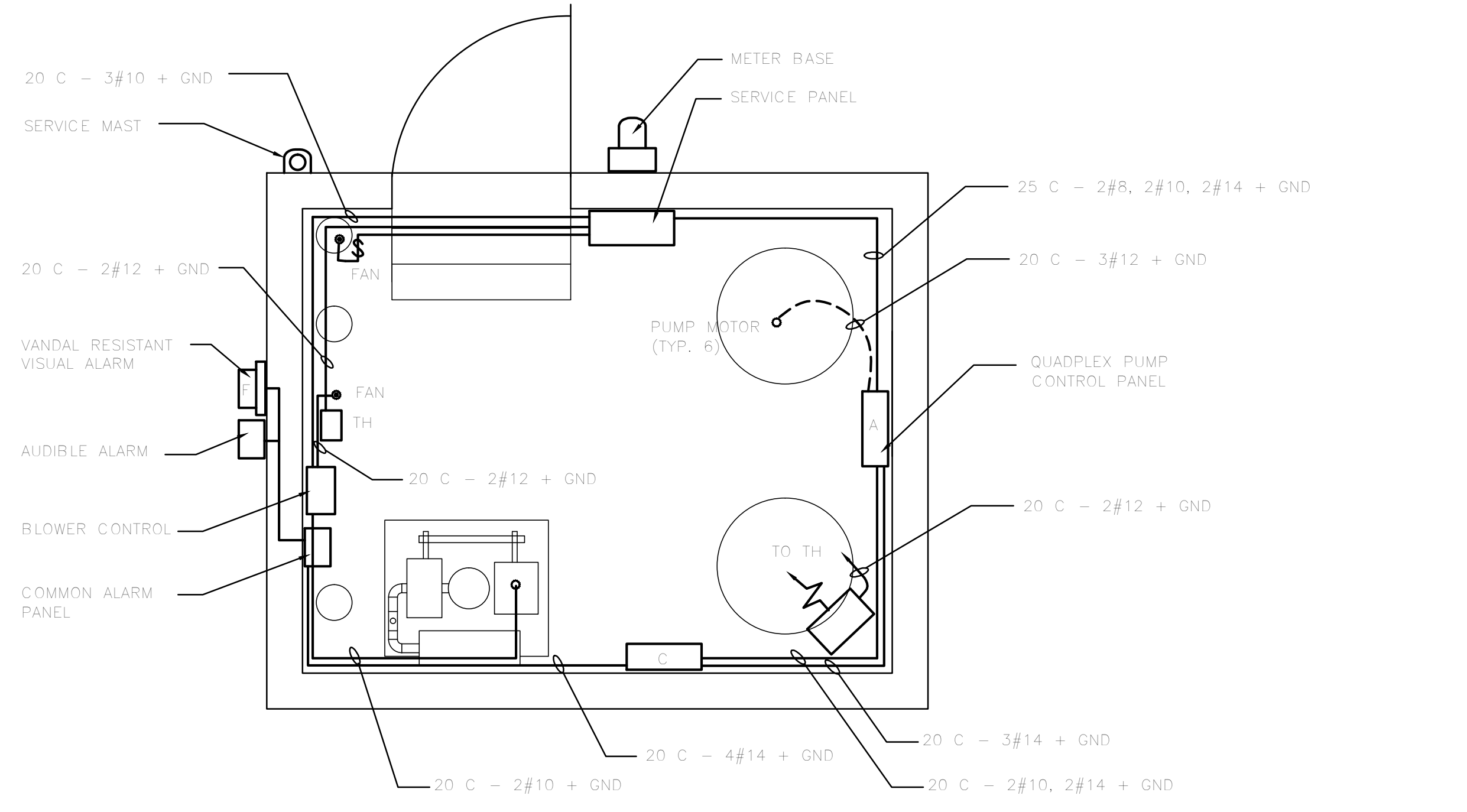
LIGHTING PANEL SCHEDULE



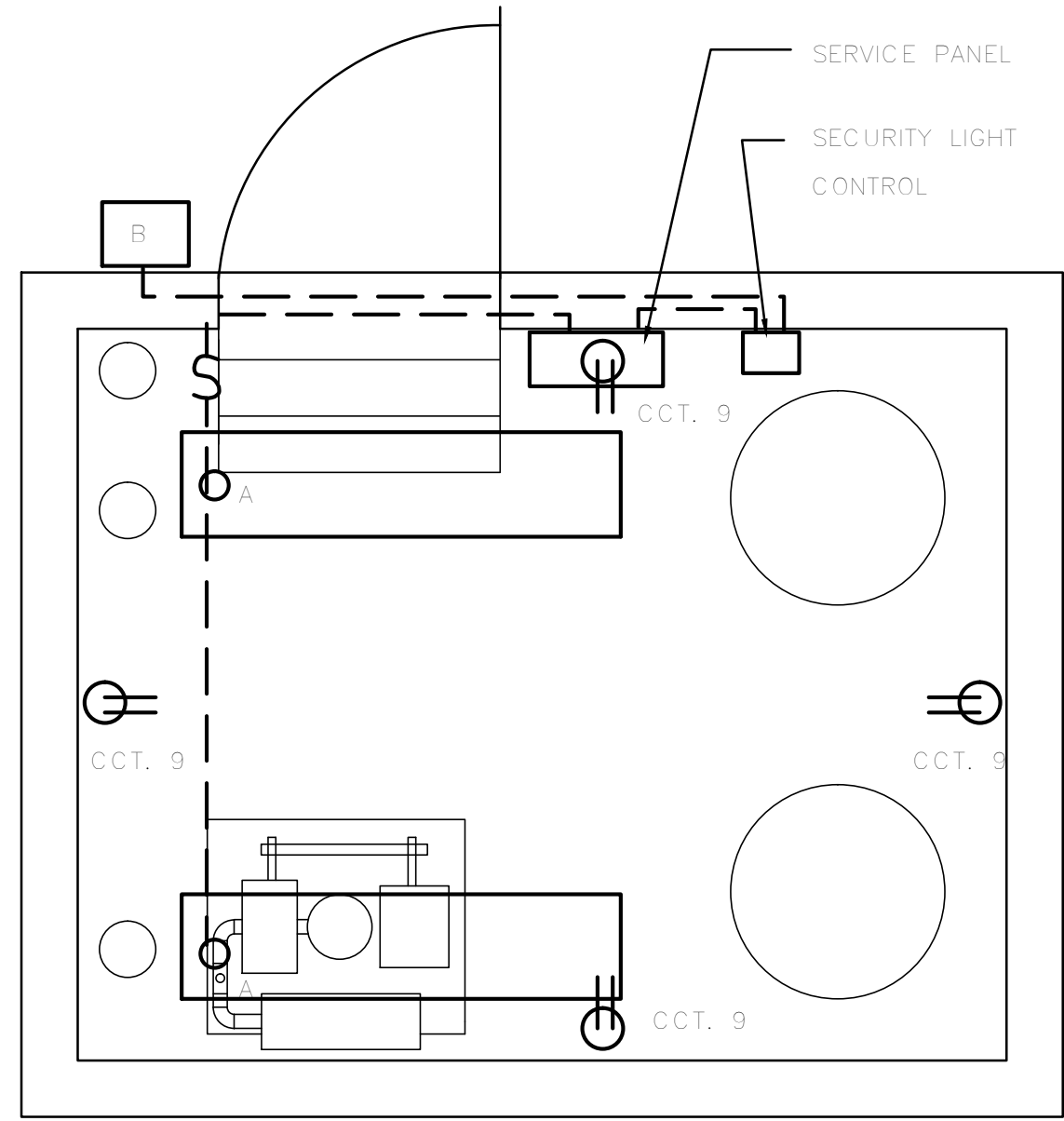
SECURITY LIGHT CONTROL (TYP.)



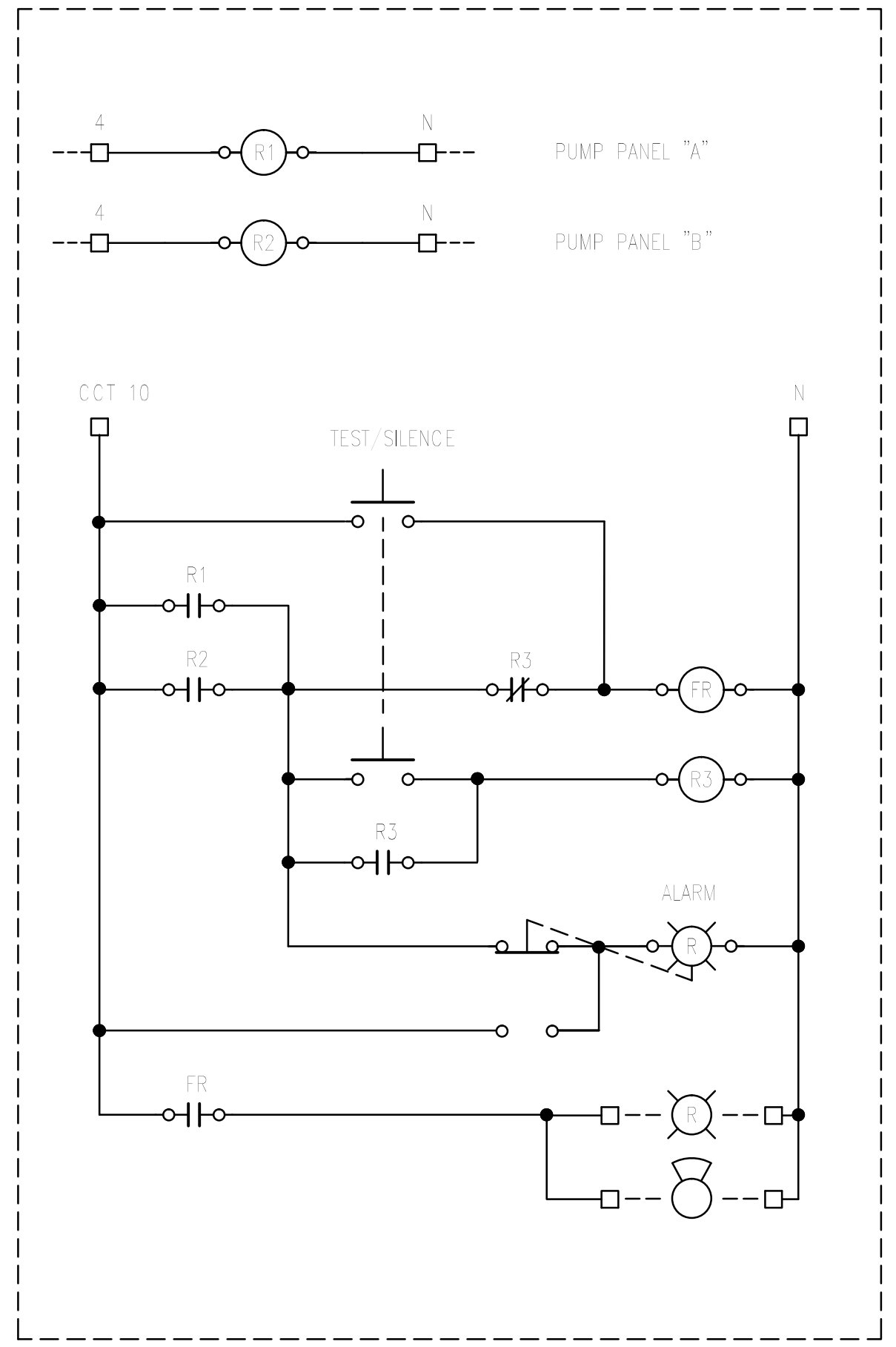
BLOWER / FAN CONTROL



PLAN
BLOWER AND CONTROL PANELS BUILDING
POWER AND CONTROL
1:25



PLAN
BLOWER AND CONTROL PANELS BUILDING
LIGHTING AND UTILITY
1:25



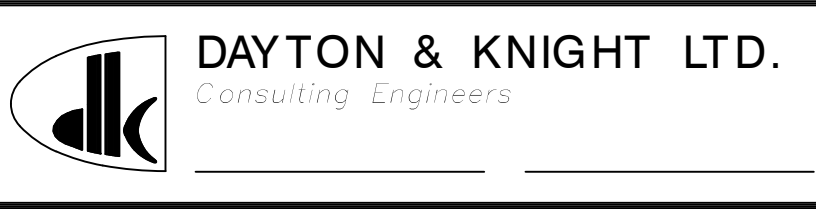
COMMON ALARM PANEL

NOTE:
ELECTRICAL WORK NOT IN CONTRACT 28.143.2

ACAD DWG. 28-143-2G 1:1 99-03-02

ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION	ISSUE	DATE	DRAWN	CHK'D	APP'D	DESCRIPTION
B	FEB-98				MOE PERMIT REQ'D						
C	FEB-99	IW			RECORD DRAWING						

DESIGNED DR _____
DRAWN IW _____
CHECKED _____



SUNSHINE COAST REGIONAL DISTRICT
WOODCREEK WASTEWATER MANAGEMENT UPGRADING
ELECTRICAL

SCALE: AS SHOWN
DRAWING No. 28.143.2
SHEET 8 OF 8 ISSUE C
THIS DRAWING REDUCED TO HALF SIZE