

200 mm

100.

- 50.

10 mm

Graphic Scales

Graphic Scales

Graphic Scales

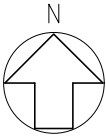
Graphic Scales

Graphic Scales

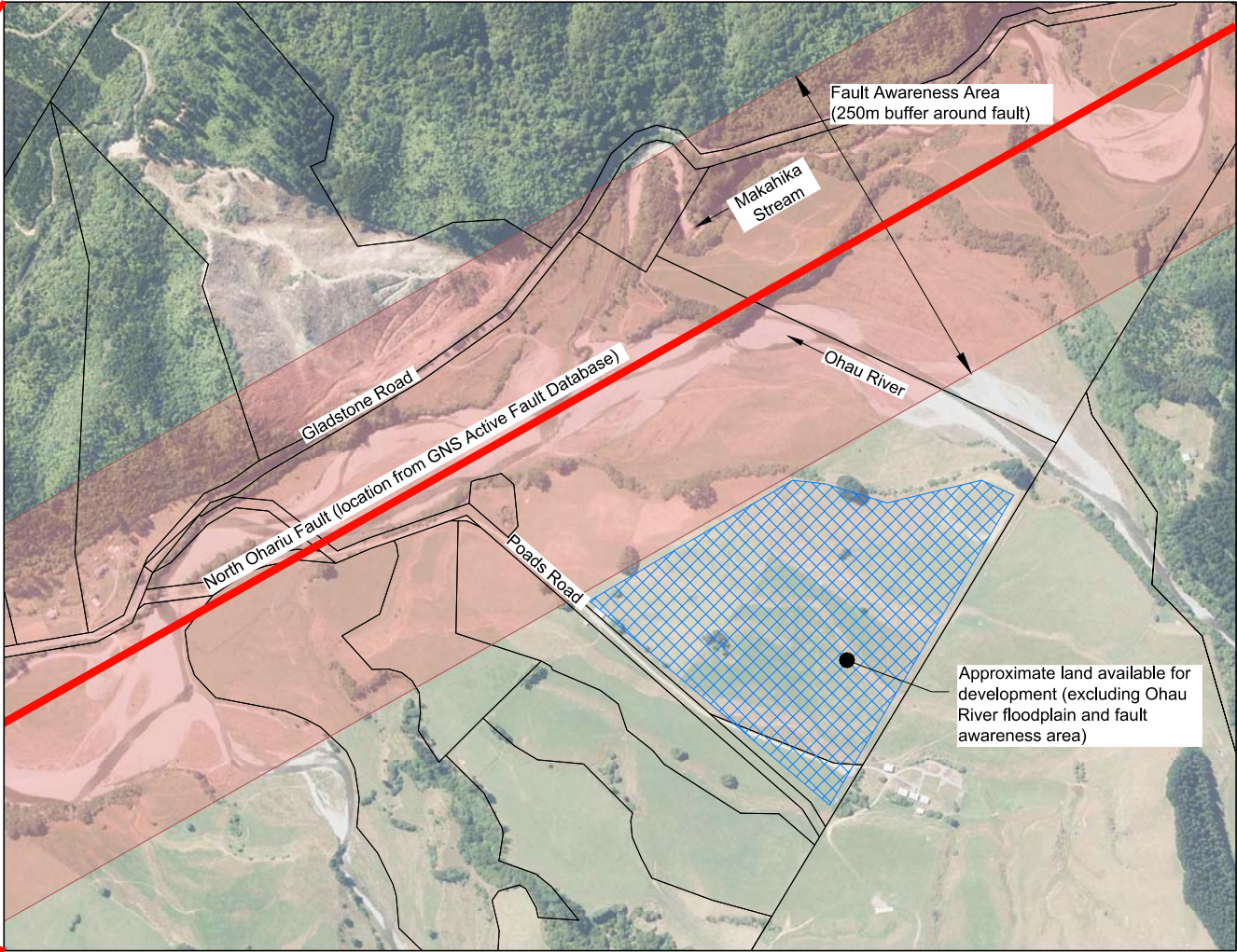
Graphic Scales

Graphic Scales

		Title	
		HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
		DRAWING LIST	
		Drawing Number PDR2142/30/100	Revision R1
Scale AS SHOWN	Project E2142A		



LEVIN AND SURROUNDS
1:100,000



SITE LOCATION MAP
1:10,000

Rev	Comments	Drawn	Chk'd	Appr'd	Date
R1	Issue For Comment	FS	JE	S.M.	16/03/23

Notes



Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
 ENGINEERING BEYOND THE SURFACE		LOCALITY PLAN	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/103	Revision R1

12 July 2023 2:20pm

200 mm

100

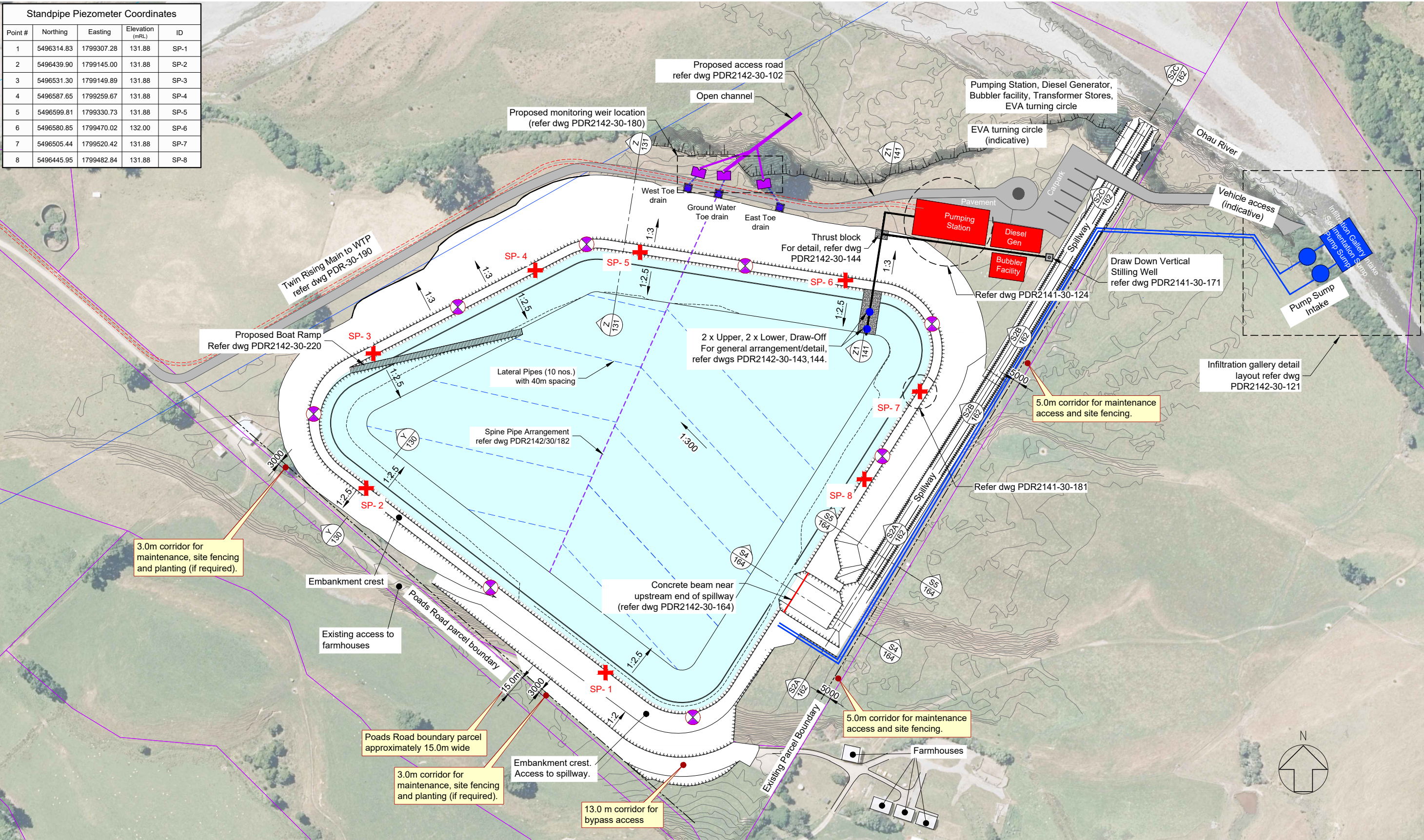
50

10 mm

C:\1245\data\dwg-wlg-vms-003\E2142A Poads Road - Feasibility Design_280\6. CAD\DWG (PDR2142-30-104-Gen Layout Plan)

Standpipe Piezometer Coordinates

Point #	Northing	Easting	Elevation (mRL)	ID
1	5496314.83	1799307.28	131.88	SP-1
2	5496439.90	1799145.00	131.88	SP-2
3	5496531.30	1799149.89	131.88	SP-3
4	5496587.65	1799259.67	131.88	SP-4
5	5496599.81	1799330.73	131.88	SP-5
6	5496580.85	1799470.02	132.00	SP-6
7	5496505.44	1799520.42	131.88	SP-7
8	5496445.95	1799482.84	131.88	SP-8



Notes:

- All co-ordinates are to NZTM and levels are to NZVD2016 mean sea level.
- Site boundaries sourced from LINZ database.
- Embankment set-back 6 metres minimum from site boundaries.
- Contours from LINZ LiDAR survey 2016.

Existing Parcel Boundary

- 8 No. Survey mark central on embankment crest.
Refer BC1613/30/52 for detail.
- 8 No. Standpipe piezometers on embankment crest.

Horowhenua
DISTRICT COUNCIL

DAMWATCH
ENGINEERING BEYOND THE SURFACE

Scale 1:2500 Project E2142A

Title
HOROWHENUA DISTRICT COUNCIL
POADS ROAD
WATER SUPPLY RESERVOIR

GENERAL LAYOUT PLAN

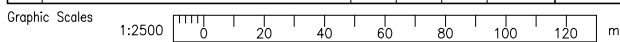
Drawing Number PDR2142/30/104

Revision R3

Graphic Scales 1:2500 0 20 40 60 80 100 120 m

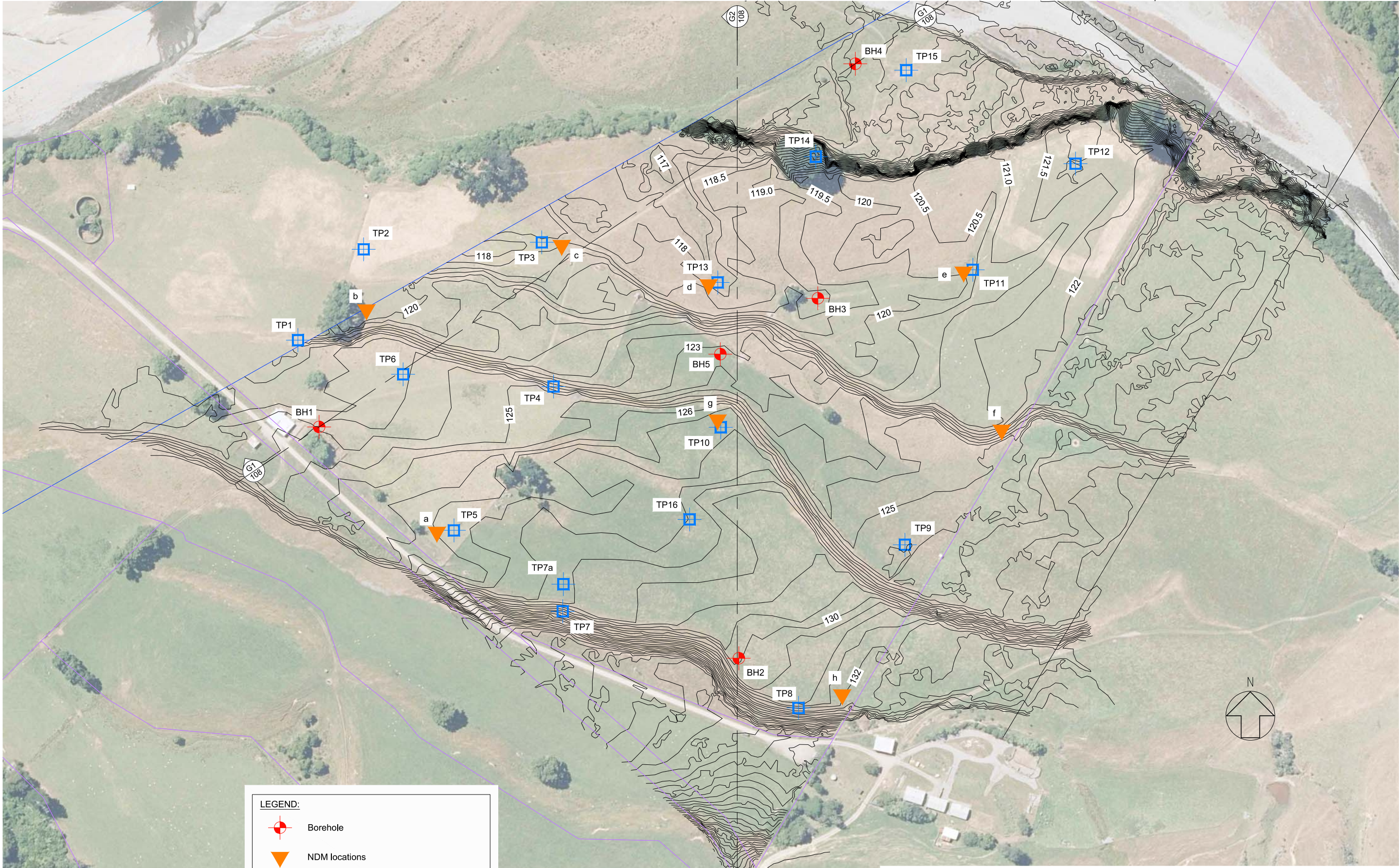
Original Sheet Size A3 (420x297)

R1	ISSUED FOR COMMENT	FS	JE	S.M.	16/03/23
Rev	Comments	Drawn	Chk'd	App'd	Date



LEGEND:

- Borehole
- NDM locations
- Testpit
- Land parcel boundary
- Existing overhead power lines (approx.)
- 250m offset from Northern Ohariu Fault Line



Title
HOROWHENUA DISTRICT COUNCIL
POADS ROAD
WATER SUPPLY RESERVOIR

GEOLOGICAL INVESTIGATIONS
PLAN

Scale 1:2500

Project E2142A

Drawing Number PDR2142/30/107

Revision R1



100



mm

-  Gravels with lower % of fines, higher % cobbles.
-  Gravels with higher % of fines.
-  Older Alluvium.
-  Rotary open wash: No core recovery.
-  Design profile

1. All levels in terms of NZVD 2016.

Graphic Scales 1:2000

A Damwatch Engineering, Wellington Club Building Level 3, 88 The Terrace, PO Box 1549, Wellington 6140, New Zealand
E info@damwatch.co.nz
P +64 4 381 1300

23 February 2023 12:17pm

200 mm

100

50

10 mm

0

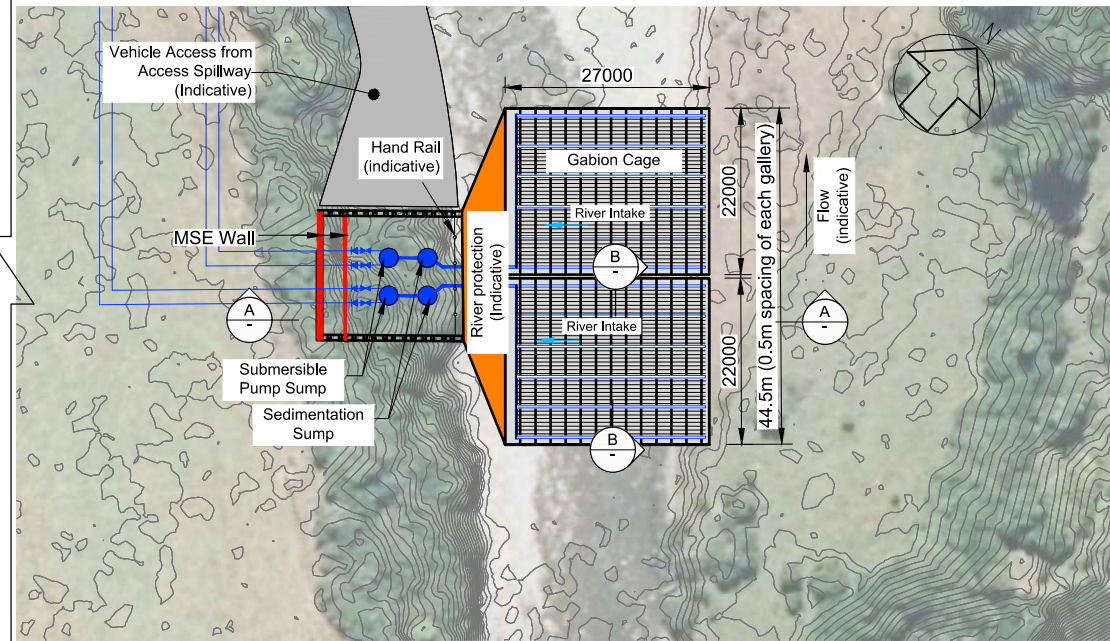
C:\1235\data\dwg-wlg-vms-00A\E2142A Poads Road - Feasibility Design_280\6. CAD\DWG\PD2142_30_022023.dwg (121-Pump Sedi Sump Plan_Section)

R1	Issue for Comment	FS	FZ	S.M.	16/03/23
Rev	Comments	Drawn	Chk'd	Appr'd	Date

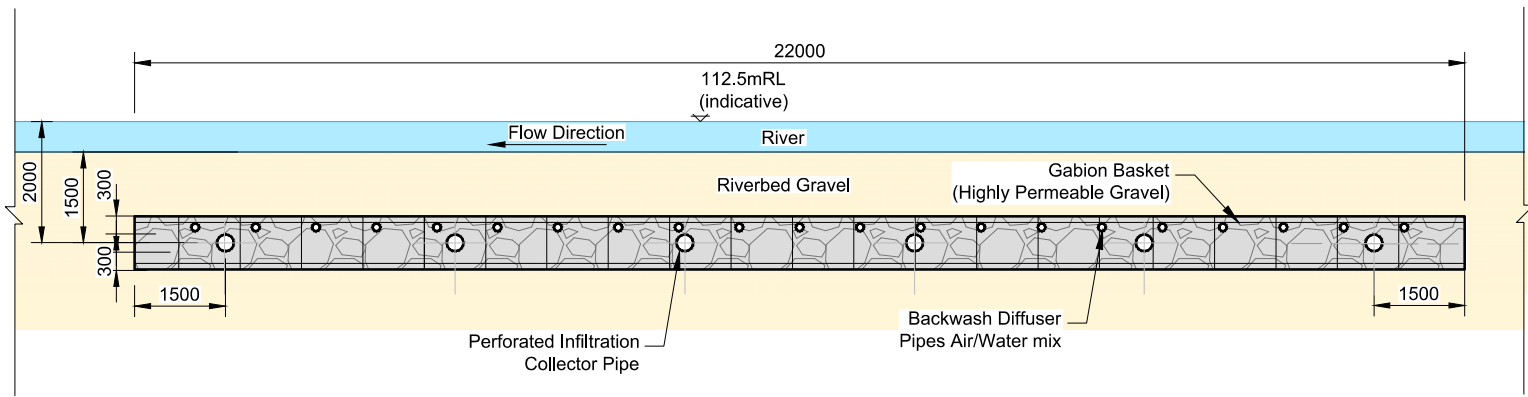
Graphic Scales

Notes:

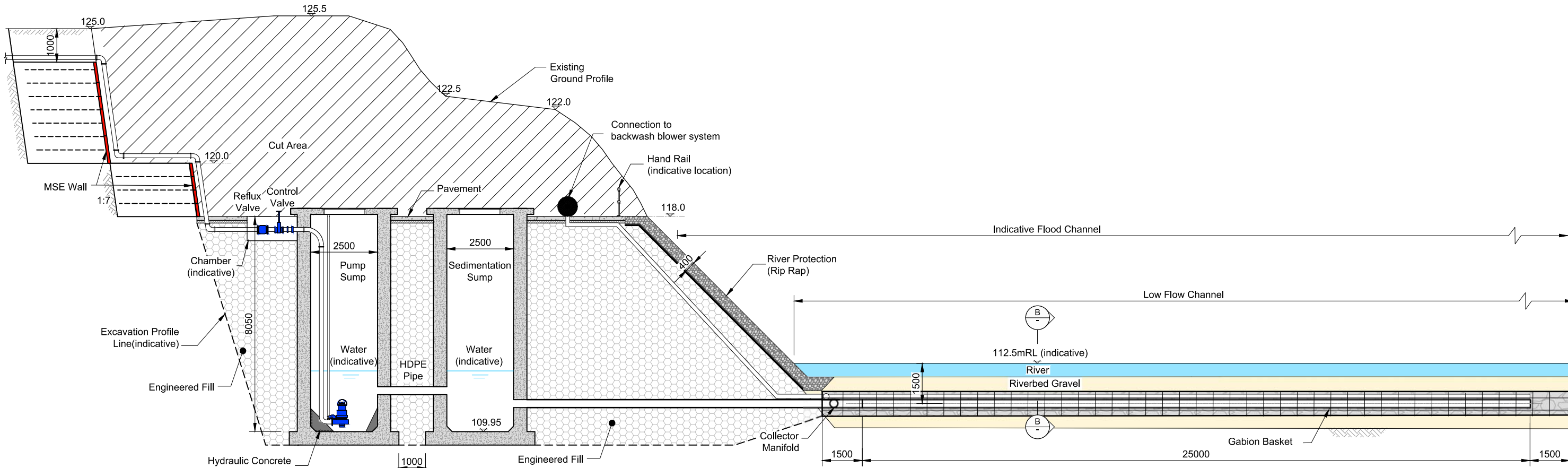
- All co-ordinates are to NZTM and levels are to NZVD2016 mean sea level.
- Site boundaries sourced from LINZ database.
- Embankment set-back 6 metres minimum from site boundaries.
- Contours from LINZ LiDAR survey 2016.



INFILTRATION SUMP LAYOUT PLAN
1:500



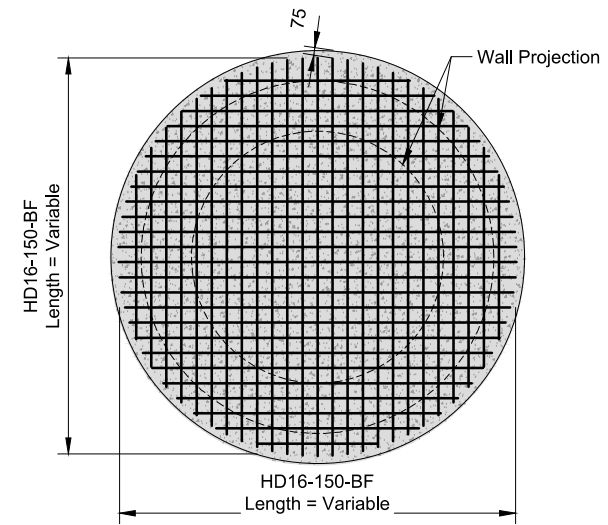
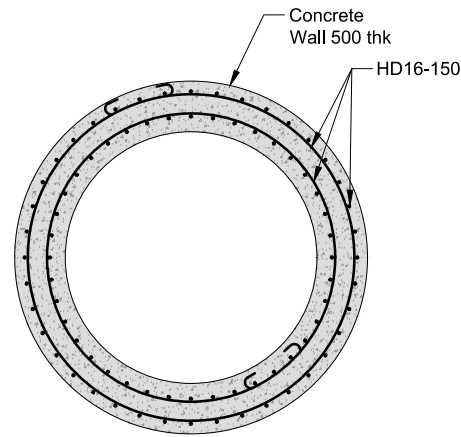
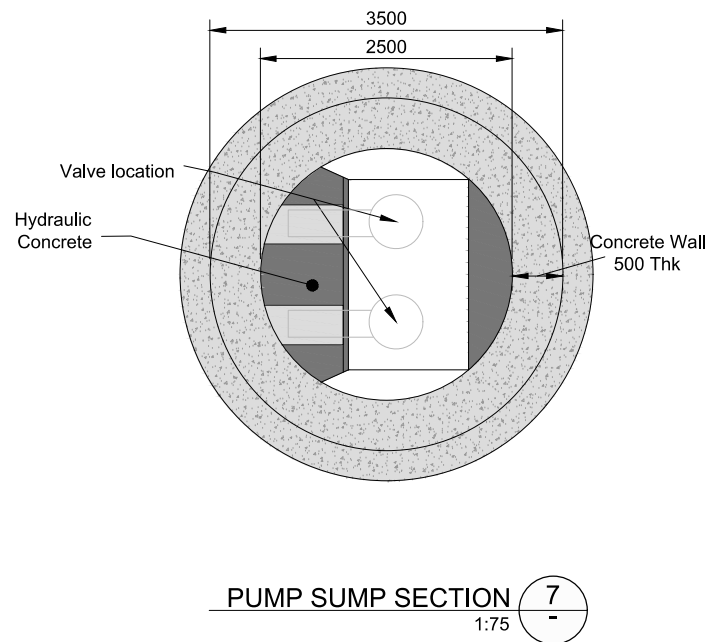
TYPICAL PEFORATED INFILTRATION SECTION
1:125



SEDIMENTATION PUMP SECTION
1:150

Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
DAMWATCH ENGINEERING BEYOND THE SURFACE		RIVER INTAKE PLAN, SECTION OF PUMP AND SEDIMENTATION SUMP	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/121	Revision R1

Original Sheet Size A3 (420x297)



1. Characteristic compressive strength of concrete shall be 30MPa at 28 days.
2. Reinforcing in accordance with NZ codes and standards (NZS3101, 3109, ASNZS 4671, etc.).
3. Minimum concrete cover to reinforcement bars shall be: 75 mm cast against ground, 50 mm typical.
4. All dimensions shall be verified by the contractor before commencing work
5. This drawing shall read in conjunction with other drawings
6. Drawings shall not be scaled for dimensions.
7. Specific details for the concrete lid will be provided in design stage as well as the additional reinforcement around openings.
8. The concrete lid shall allow to be lifted and must consider an opening access.

- HD12-150-BF
- EW - Each Way
BF - Both Faces
TB - Top Bottom
Max. Spacing (mm)
Nom Bar Dia. (mm)
Bar Grade and Type



HD12-150-BF EW - Each Way
 BF - Both Faces
 TB - Top Bottom
 Max. Spacing (mm)
 Nom Bar Dia. (mm)
 Bar Grade and Type

 		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
		RIVER INTAKE SEDIMENTATION SUMP PLAN, SECTION AND REINFORCEMENT DETAILS	
Scale	AS SHOWN	Project	E2142A
		Drawing Number	PDR2142/30/123
		Revision	R1

21 February 2023 5:22pm

200 mm

100

50

10 mm

0

C:\1285\data\dmr-wlg-vms-004\E2142A Poads Road - Feasibility Design_280\6. CAD\DWG\PDR2142-30-124-Pumping Station.dwg (124-Pumping Station)

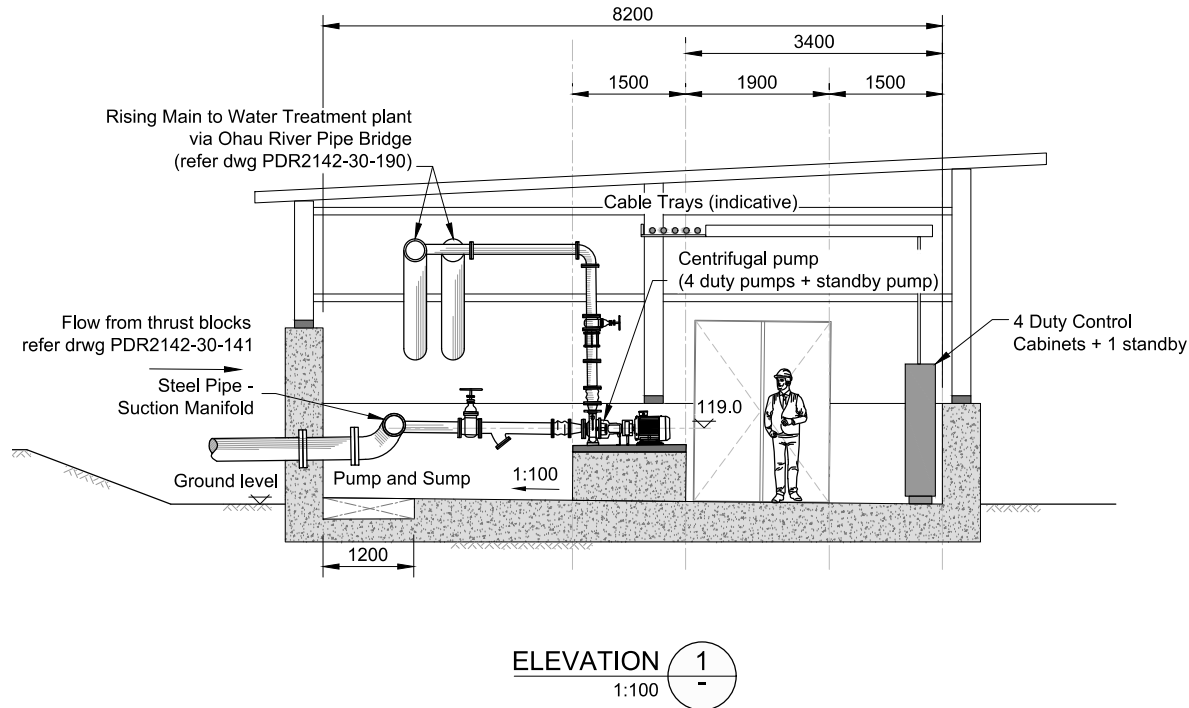
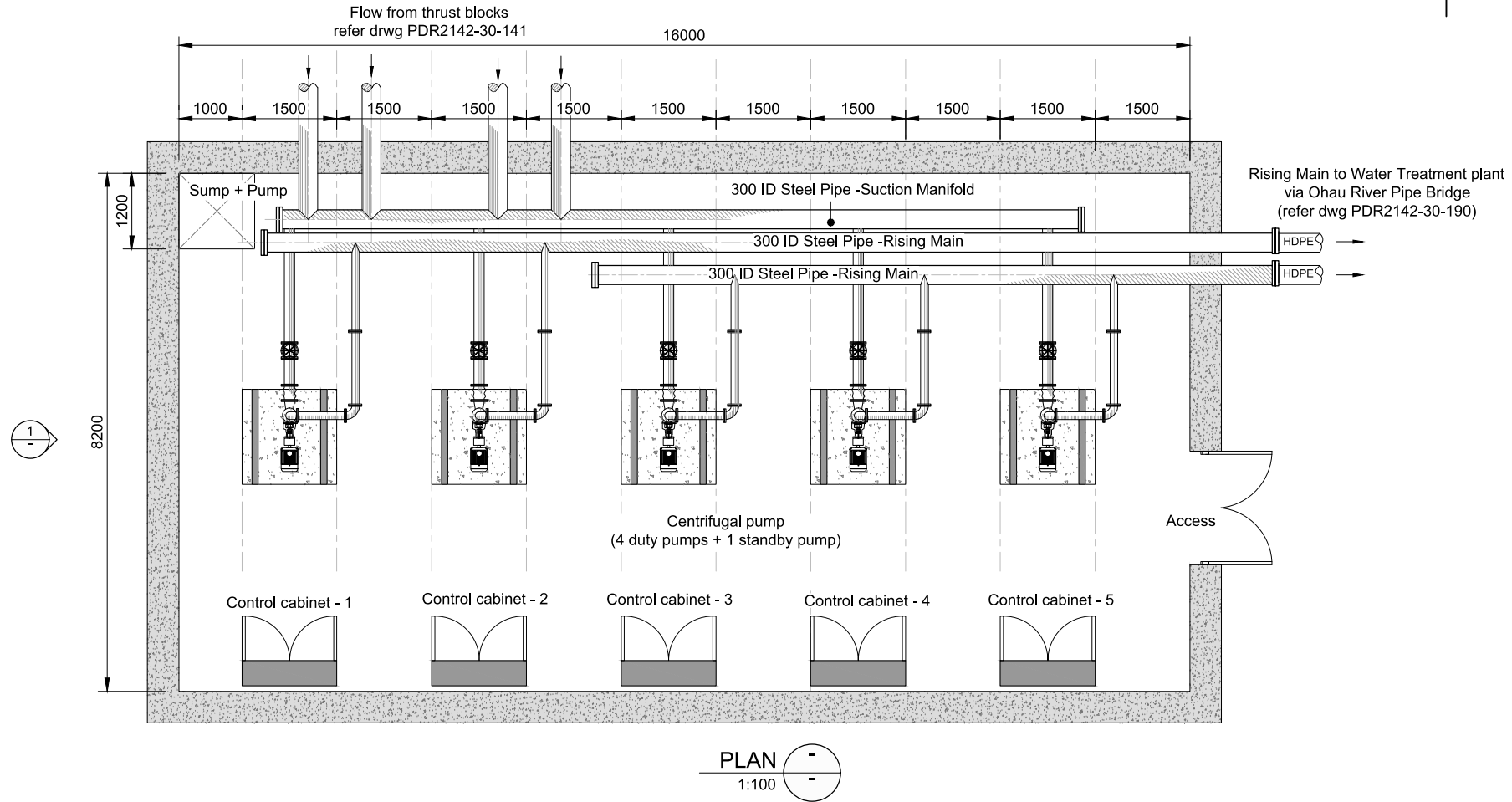
Rev	Comments	Drawn	Chk'd	App'd	Date
R1	Issued for Comments	FS	JE	S.M.	16/03/23

Notes:

1. All levels are to NZVD2016 mean sea level.
2. All units are in millimeters unless stated otherwise.
3. For location plan, refer drawing PDR2145-30-104.

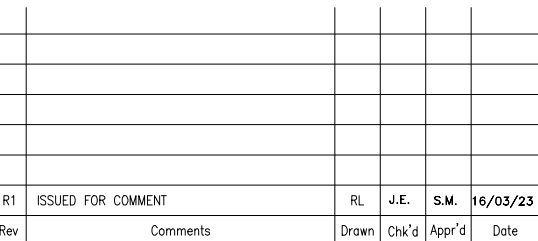
Graphic Scales 1:100 0 1 2 3 4 5 m

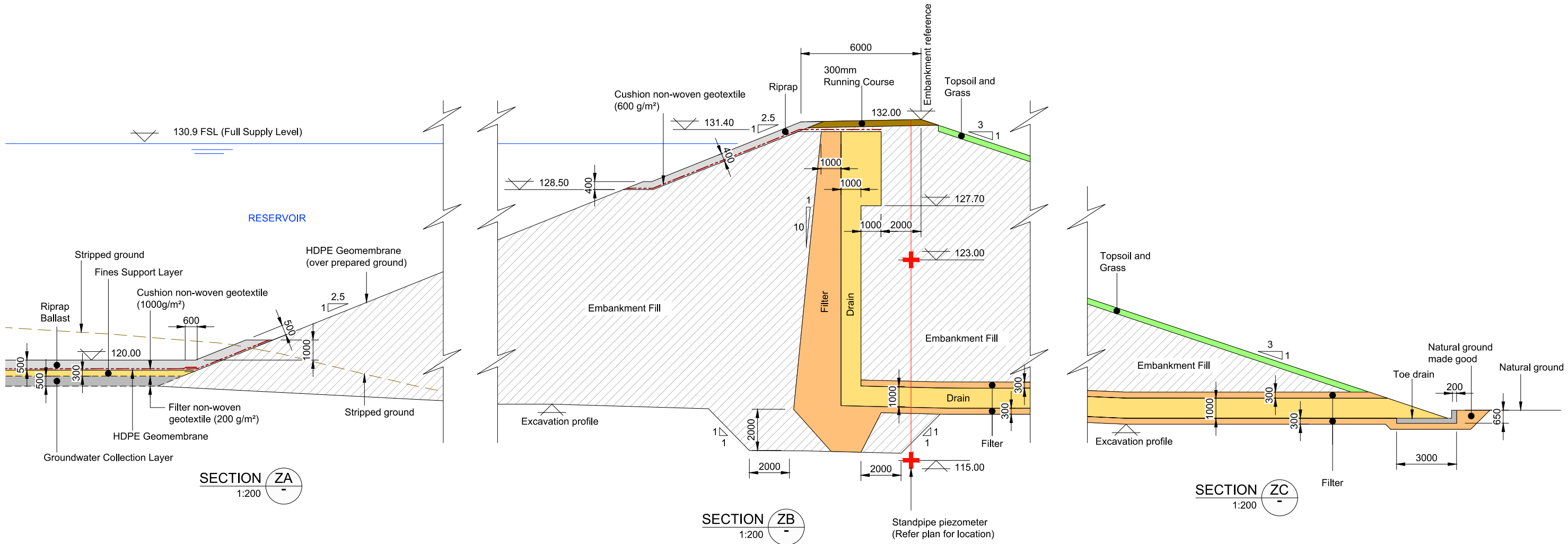
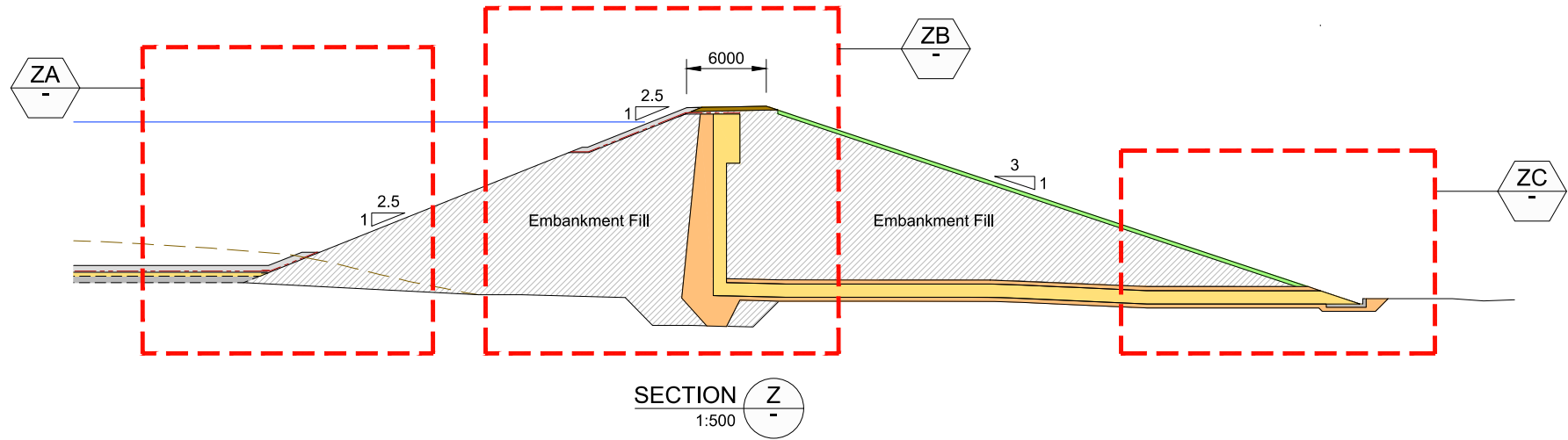
Notes Keys and References



Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
DAMWATCH ENGINEERING BEYOND THE SURFACE		DRAWOFF PUMPING STATION GENERAL ARRANGEMENT	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/124	Revision R1

Original Sheet Size A3 (420x297)





R1	ISSUED FOR COMMENT	R.L.	J.E.	S.M.	16/03/23
Rev	Comments	Drawn	Chk'd	App'd	Date


DISTRICT COUNCIL


ENGINEERING BEYOND THE SURFACE

Title

HOROWHENUA DISTRICT COUNCIL
POADS ROAD
WATER SUPPLY RESERVOIR

RESERVOIR EMBANKMENT
SECTIONS Z, ZA, ZB and ZC

Scale1:200

ProjectE2142A

Drawing Number

PDR2142/30/131

Revision

R1

Graphic Scales

Original Sheet Size A3 (420x297)

A Damwatch Engineering, Wellington Cub Building Level 3, 88 The Terrace, PO Box 1549, Wellington 6140, New Zealand E info@damwatch.co.nz P +64 4 381 1300



100.



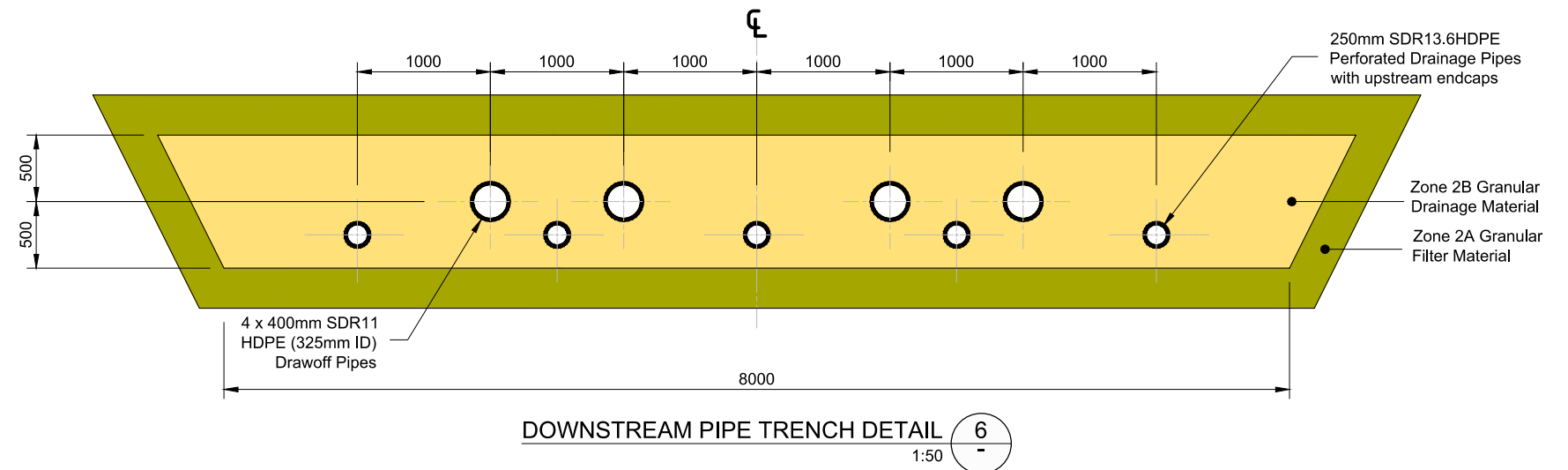
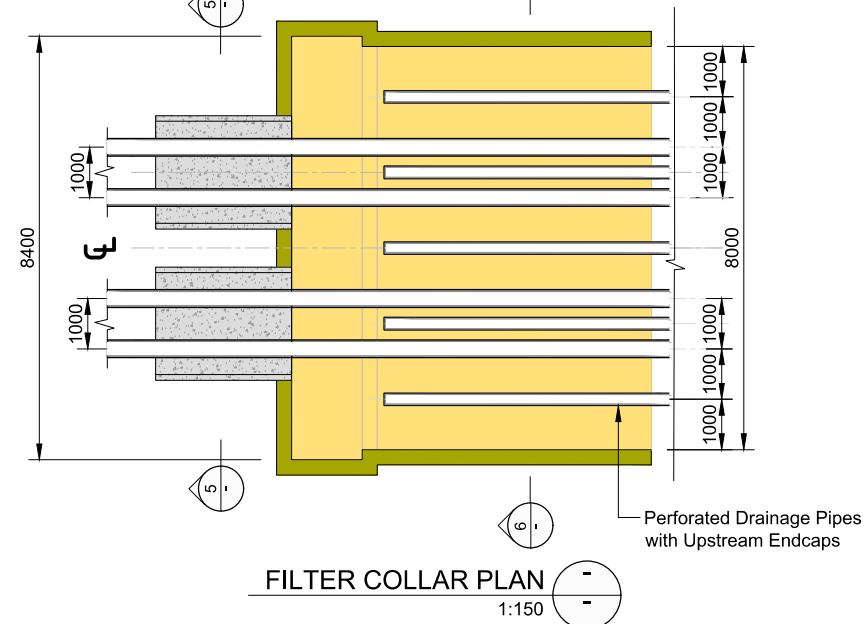
mm

10 mm

1. All units are in millimeters unless stated otherwise.
2. This drawing shall read in conjunction with other drawings.



+64 4 381 1300



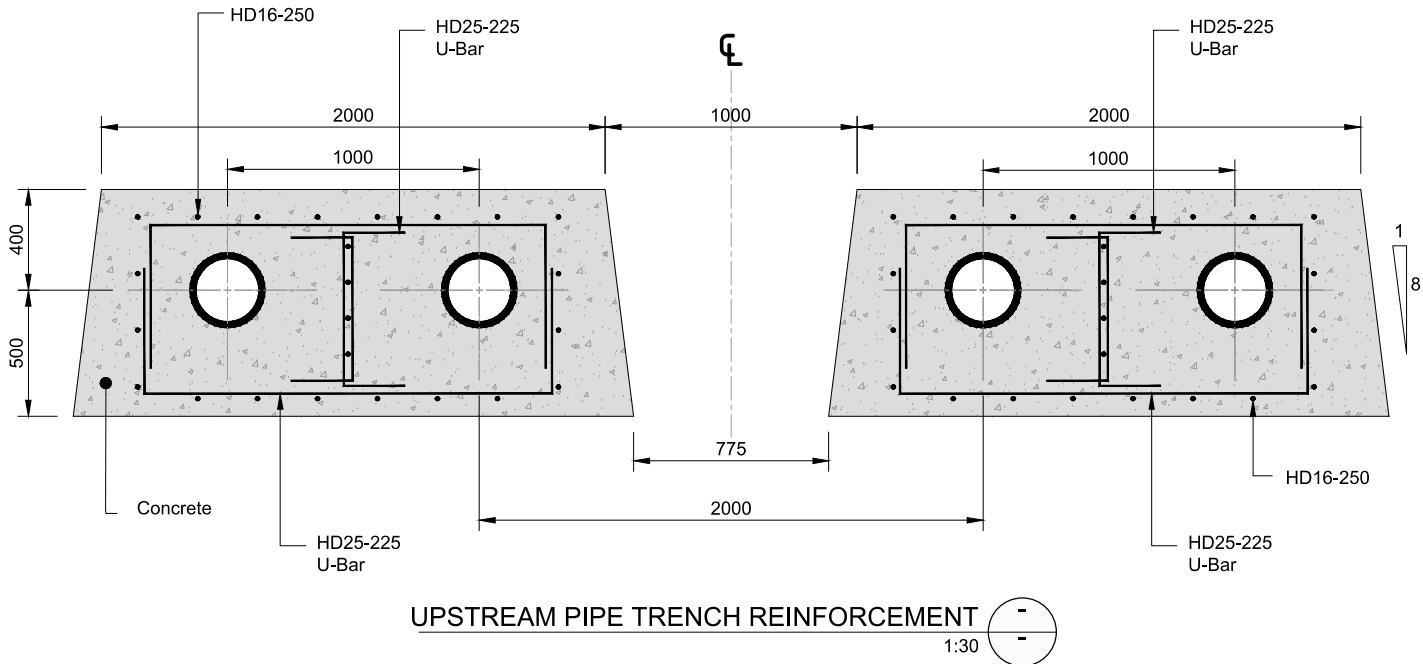
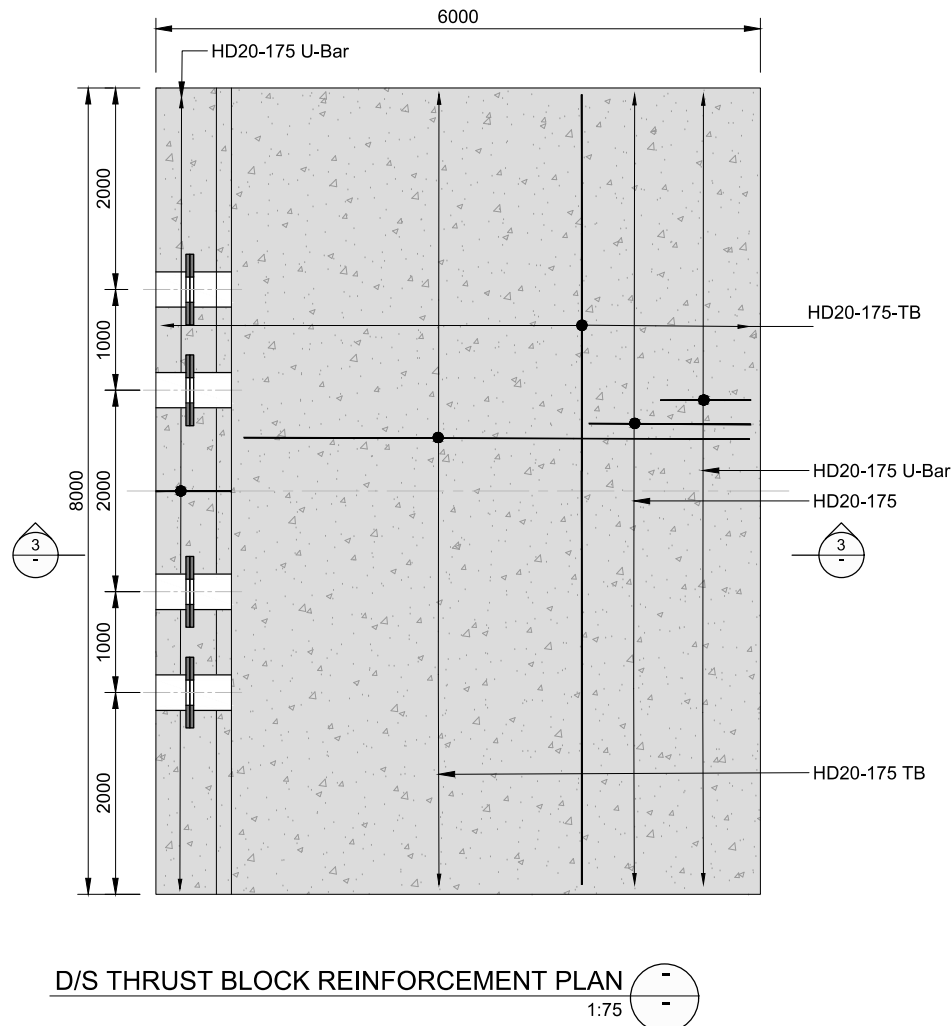
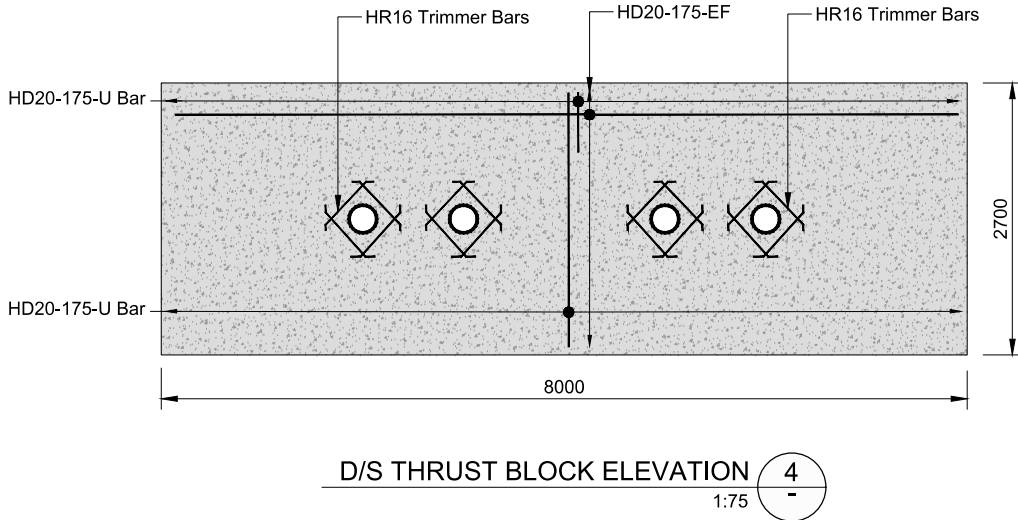
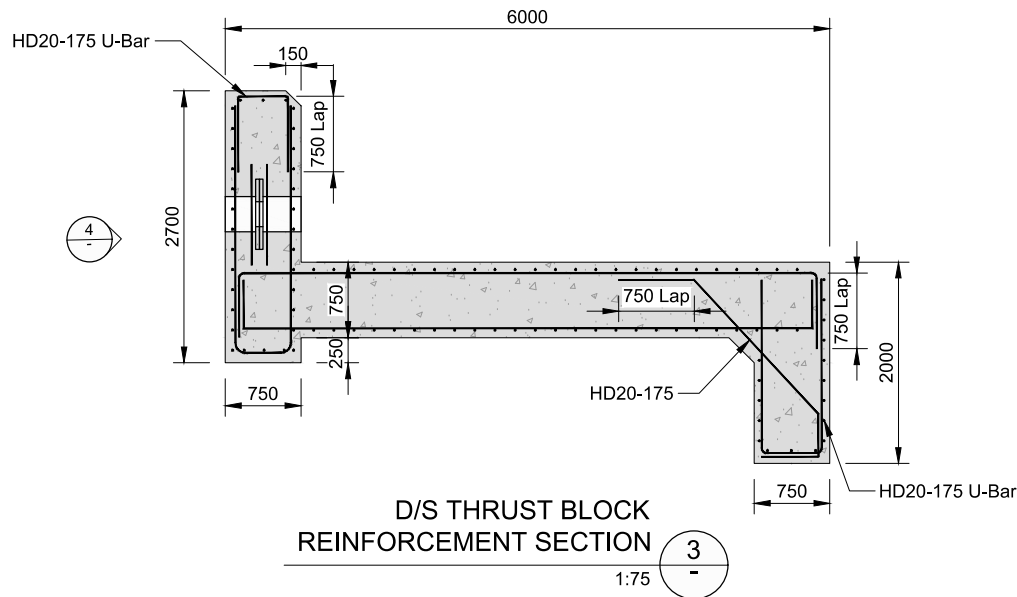
1. All dimensions shall be verified by the contractor before commencing work.
2. This drawing shall read in conjunction with other drawings.
3. For location plan, refer dwg PDR2142-30-104.

R1	Issue For Comment	FS	FZ	S.M.	16/03/23
Rev	Comments	Drawn	Chk'd	Appr'd	Date

C:\225\data\dmr-wlg-vms-004\E2142A Poads Road - Feasibility Design_280\6. CAD\DWG\DWG\Drawoff Thrust Blocks.dwg (144-Drawoff Thrust Blocks) 21 February 2023 5:15pm

200 mm
100
50
10 mm
0

Notes Keys and References



Rev	Issue For Comment	FS	FZ	S.M.	Date
R1	Issue For Comment				16/03/23
Rev	Comments	Drawn	Chk'd	Appr'd	Date

Notes:

1. Characteristic compressive strength of concrete shall be 30MPa at 28 days.
2. Reinforcing in accordance with NZ codes and standards (NZS3101, 3109, ASNZS 4671, etc).
3. Minimum concrete cover to reinforcement bars shall be: 75mm cast against ground, 50mm typical.
4. All dimensions shall be verified by the contractor before commencing work.

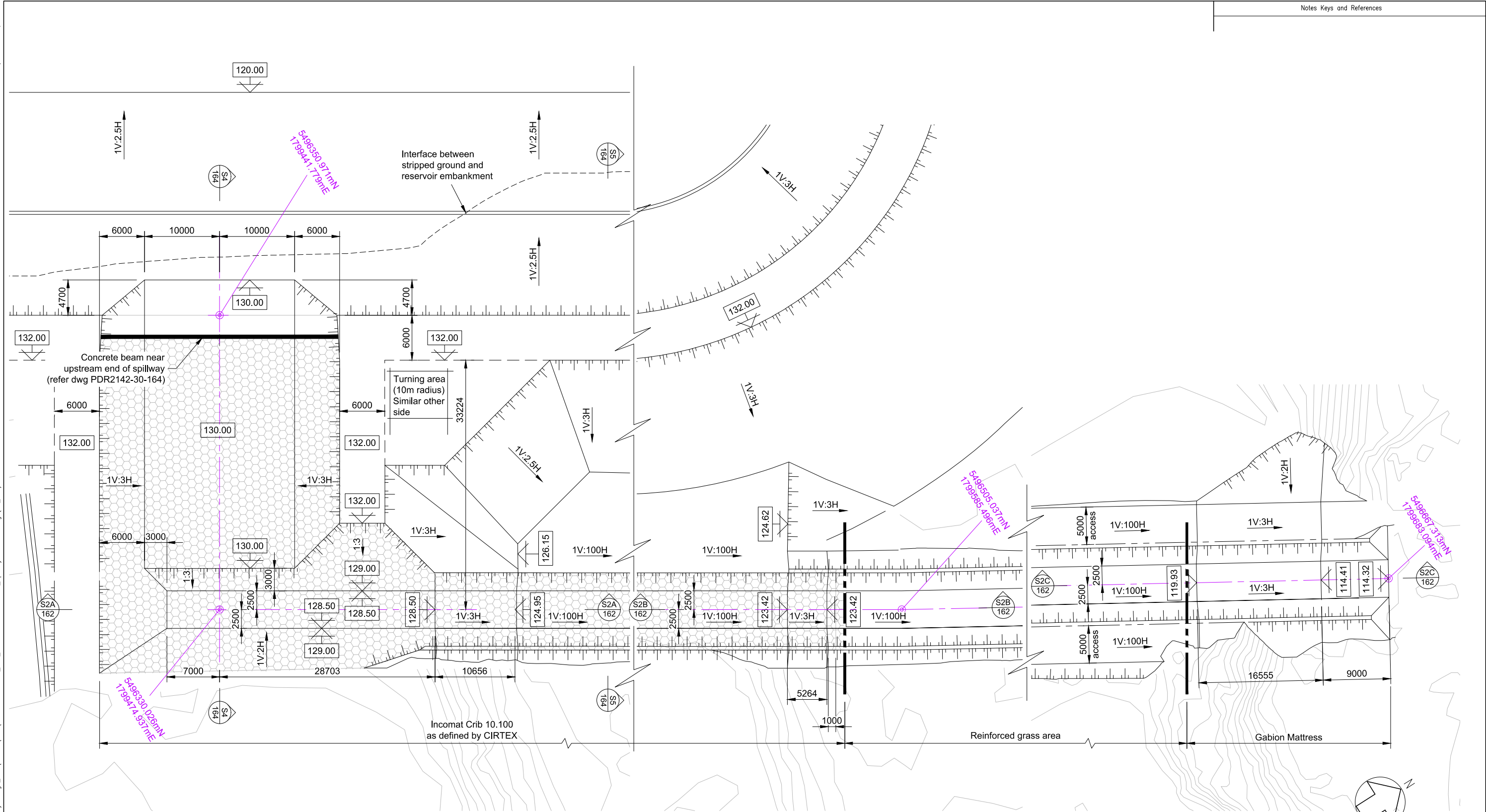
5. This drawing shall read in conjunction with other drawings.
6. Drawings shall not be scaled for dimensions.
7. For location plan, refer dwg PDR2142-30-104.

HD12-150-BF
EW - Each Way
BF - Both Faces
TB - Top Bottom
Max. Spacing (mm)
Nom Bar Dia. (mm)
Bar Grade and Type

Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
DAMWATCH ENGINEERING BEYOND THE SURFACE		DRAWOFF GENERAL ARRANGEMENT UPSTREAM PIPE SURROUND,DETAIL SECTIONS AND THRUST BLOCK REINFORCEMENT	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/144	Revision R1

Graphic Scales 1:30 0 200 400 600 800 1000 1200 1400 mm 1:75 0 1 2 3 m

Original Sheet Size A3 (420x297)



PLAN
1:500

Rev	Comments	Drawn	Chk'd	Appr'd	Date
R1	ISSUED FOR COMMENT	R.L.	J.E.	S.M.	16/03/23

Graphic Scales 1:500 0 4 8 12 16 20 24 m

Notes Keys and References

**Horowhenua**
DISTRICT COUNCIL

**DAMWATCH**
ENGINEERING BEYOND THE SURFACE

Title
HOROWHENUA DISTRICT COUNCIL
POADS ROAD
WATER SUPPLY RESERVOIR

SPILLWAY
PLAN ARRANGEMENT

Scale 1:500

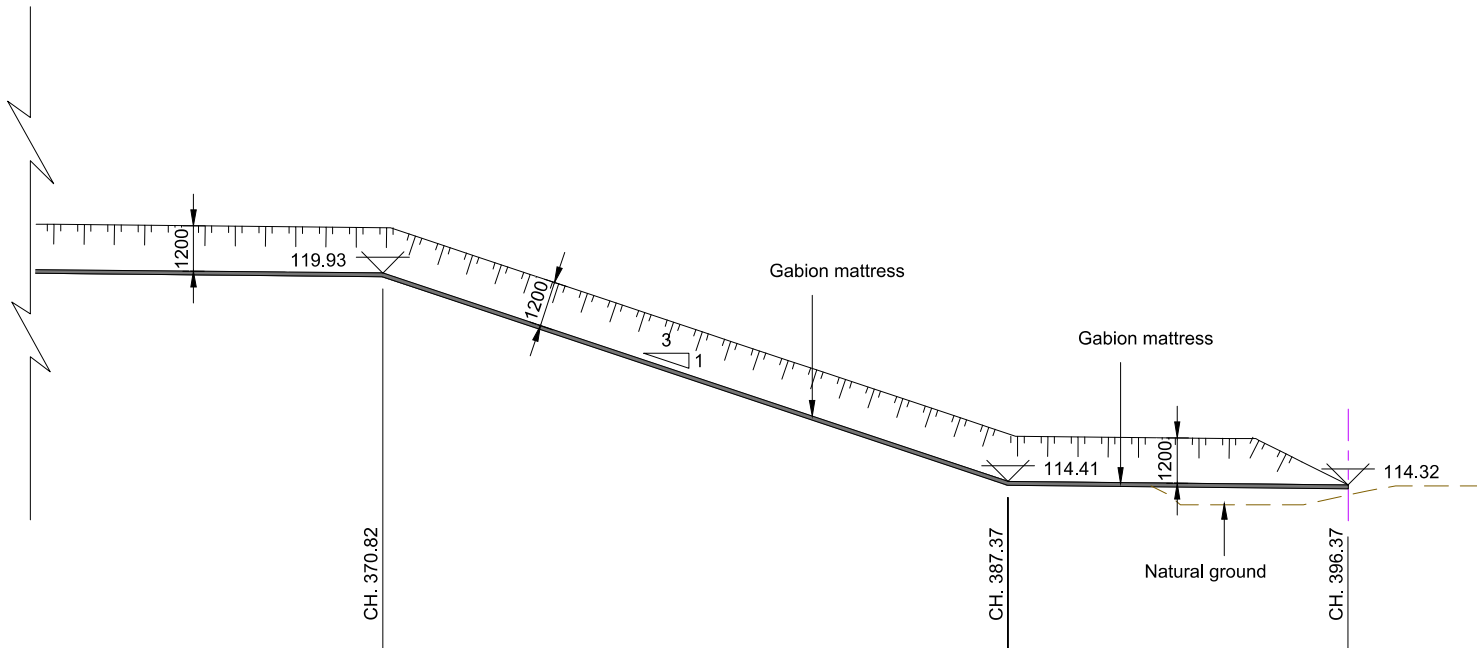
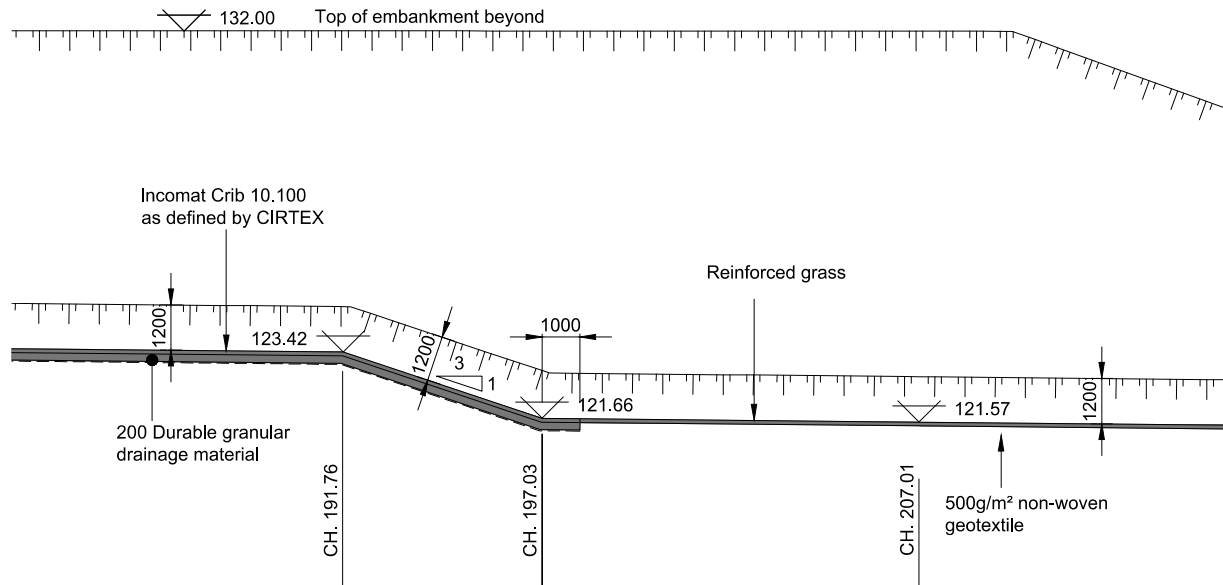
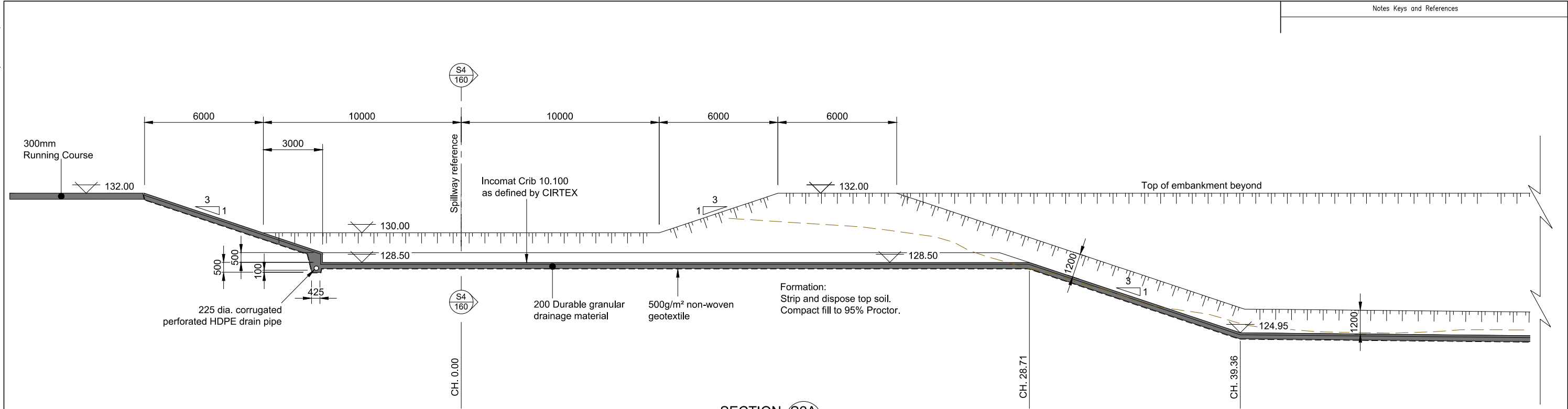
Project E2142A

Drawing Number PDR2142/30/160

Revision R1

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23 February 2023 4:11pm

200 mm
100
50
10 mm
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R1	ISSUED FOR COMMENT	FS	JE	S.M.	16/03/23
Rev	Comments	Drawn	Chk'd	Appr'd	Date

Graphic Scales
1:200
0 2 4 6 8 10 m

Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
DAMWATCH ENGINEERING BEYOND THE SURFACE		SPILLWAY SECTIONS S2A S2B and S2C	
Scale 1:200	Project E2142A	Drawing Number PDR2142/30/162	Revision R1

Original Sheet Size A3 (420x297)

Notes Keys and References

23 February 2023 5:17pm

100

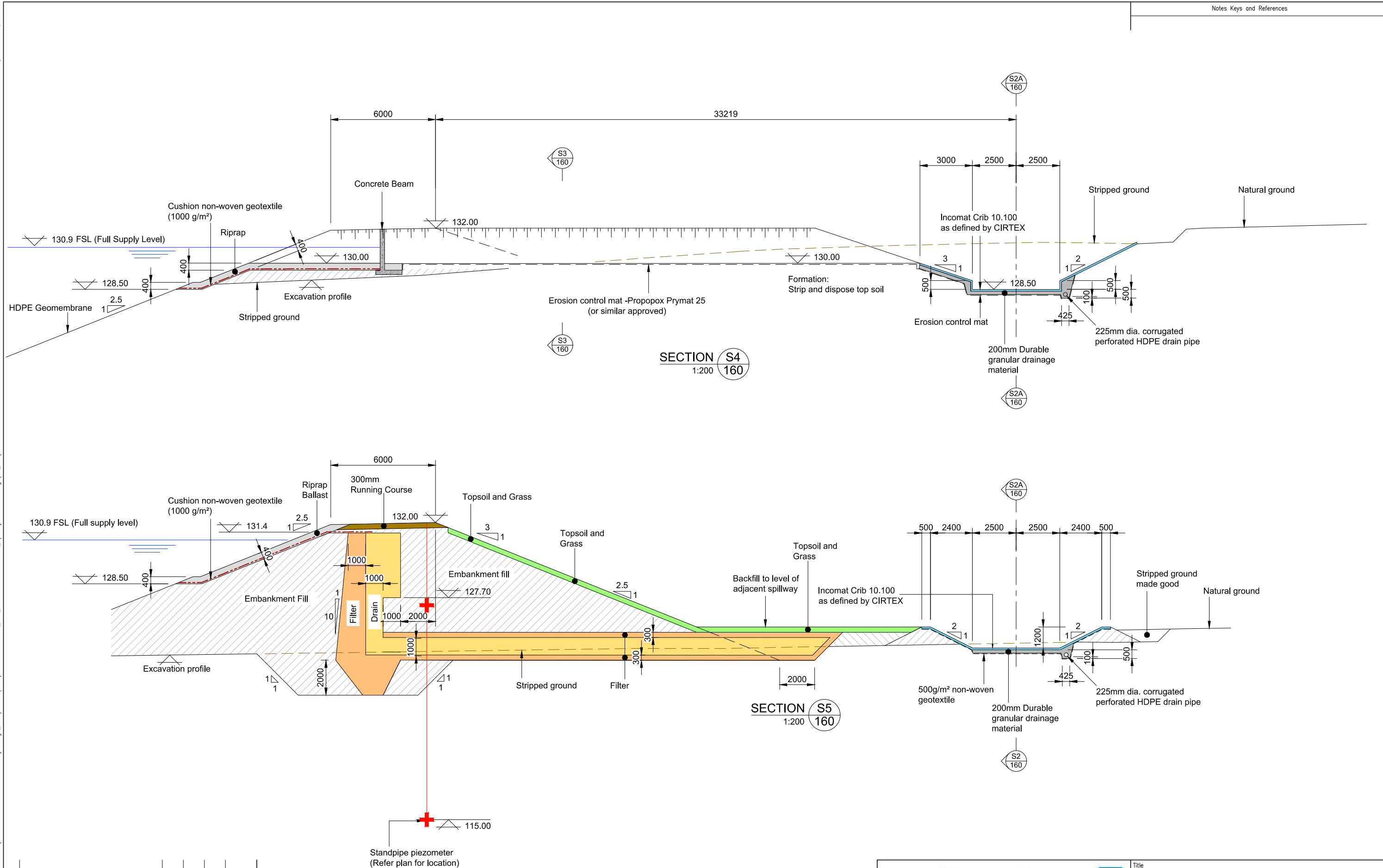
50

10 mm

0

R1 ISSUED FOR COMMENT					
Rev Comments Drawn Chk'd Appr'd Date					
RL JE S.M. 16/03/23					

Graphic Scales 1:200 0 2 4 6 8 10 m



Title

HOROWHENUA DISTRICT COUNCIL
POADS ROAD
WATER SUPPLY RESERVOIR

SPILLWAY
SECTIONS S4 AND S5

Scale 1:200

Project E2142A

Drawing Number PDR2142/30/164

Revision R1

Original Sheet Size A3 (420x297)

1. Characteristic compressive strength of concrete shall be 30MPa at 28 days.
2. Reinforcing in accordance with NZ codes and standards (NZS3101, 3109, ASNZS 4671, etc.).
3. Minimum concrete cover to reinforcement bars shall be: 75 mm cast against ground, 50 mm typical.
4. All dimensions shall be verified by the contractor before commencing work.

5. This drawing shall read in conjunction with other drawings.
6. Drawings shall not be scaled for dimensions.
7. Steel braces and legs to fix the pipe to the vertical stilling well are to be defined in design stage.
8. Reinforcement specific details for concrete fillets, pedestal and lid will be provided in design stage as well as the additional reinforcement around openings.
9. For location plan, refer to dwg PDR2142-30-104.

HD12-150-BF EW - Each Way
 BF - Both Faces
 TB - Top Bottom
 Max. Spacing (mm)
 Nom Bar Dia. (mm)
 Bar Grade and Type



Title	HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR
	VERTICAL STILLING WELL PLAN, SECTION AND REINFORCEMENT DETAILS

Scale AS SHOWN

Project E2142A

Drawing Number PDR2142/30/171

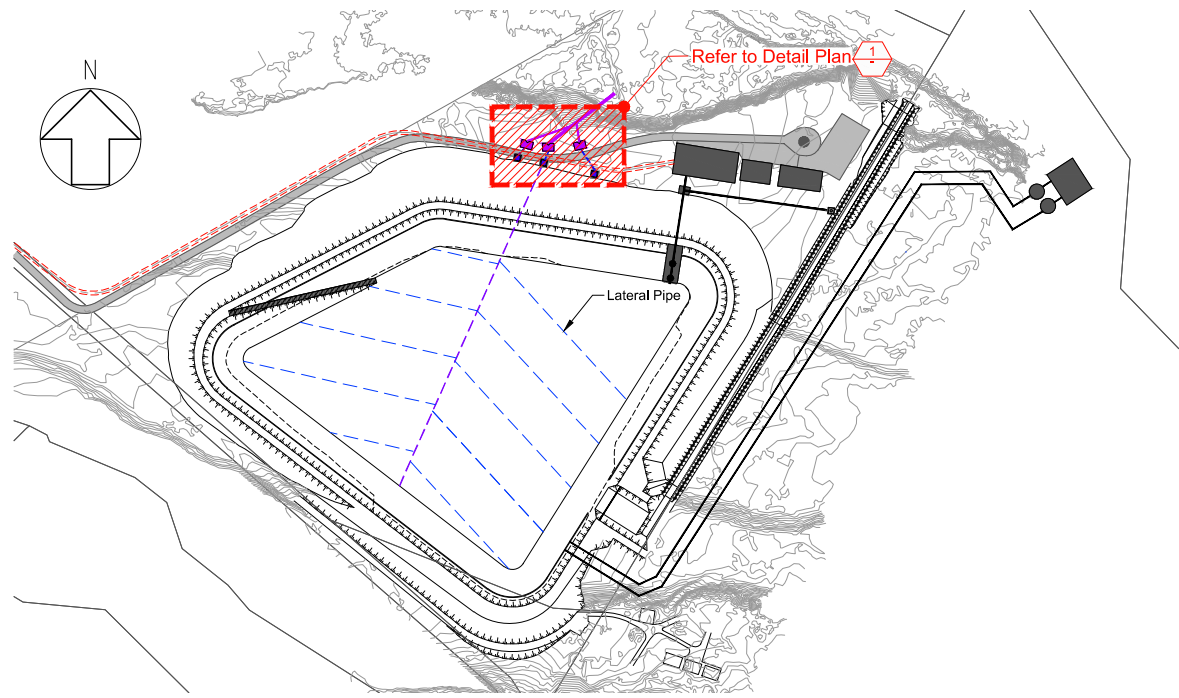
Revision R1

Original Sheet Size A3 (420x297)

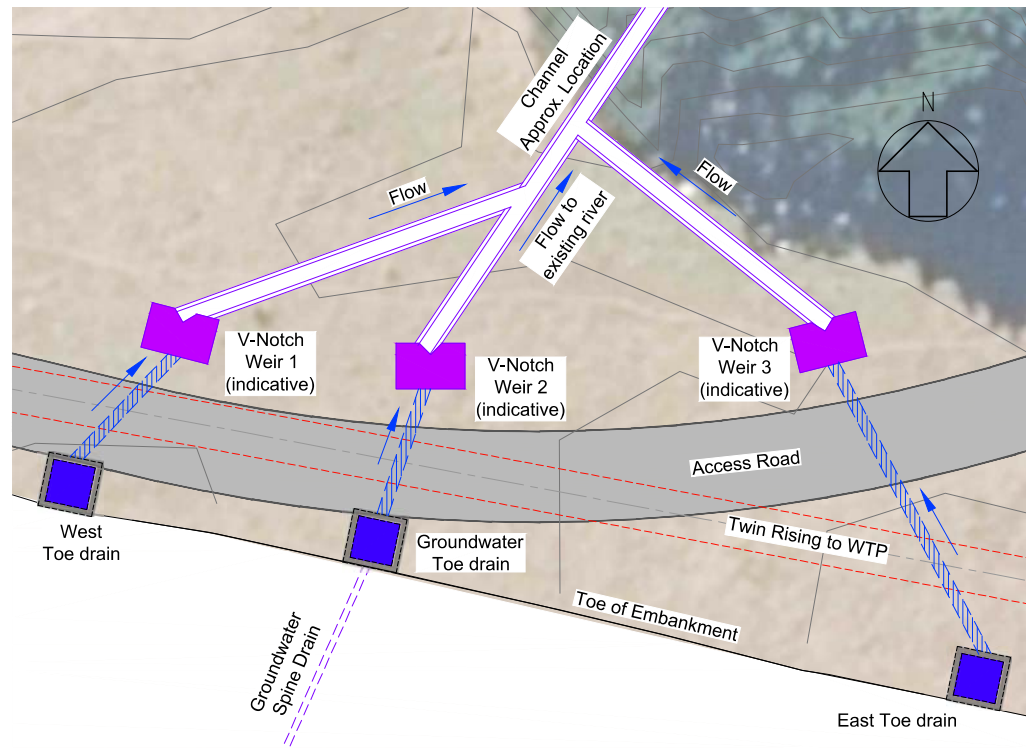
+64 4 381 1300

E info@damwatch.co.nz

Damwatch Engineering, Wellington Club Building Level 3, 88 The Terrace, PO Box 1549, Wellington 6140, New Zealand



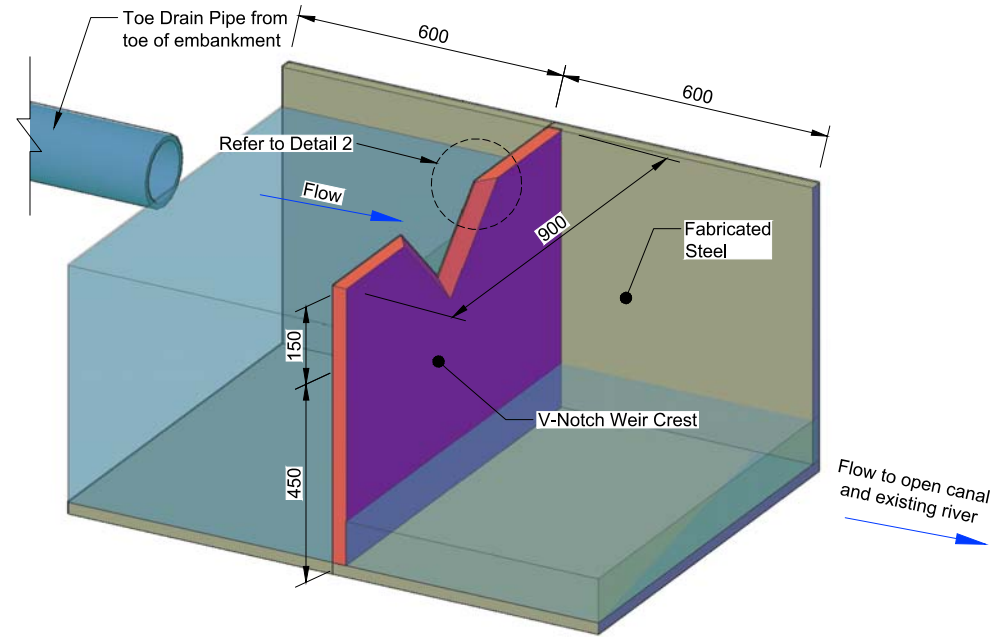
LOCATION PLAN 1
1:6000



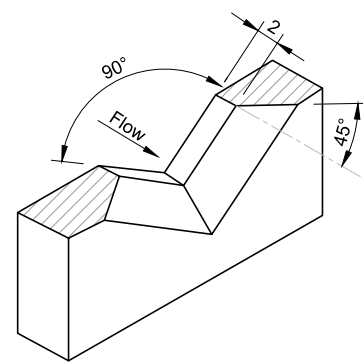
DETAIL PLAN 1
1:500

Notes:

1. All co-ordinates are to NZTM and levels are to NZVD2016 mean sea level.
2. All units are in millimeters unless stated otherwise.
3. Contours from LINZ LiDAR survey 2016.



ISOMETRIC VIEW 1
1:15



WEIR PLATE VERTEX DETAIL 2
NTS

Rev	Comments	Drawn	Chk'd	Appr'd	Date
R1	Issued for Comments	FS	JE	S.M.	16/03/23

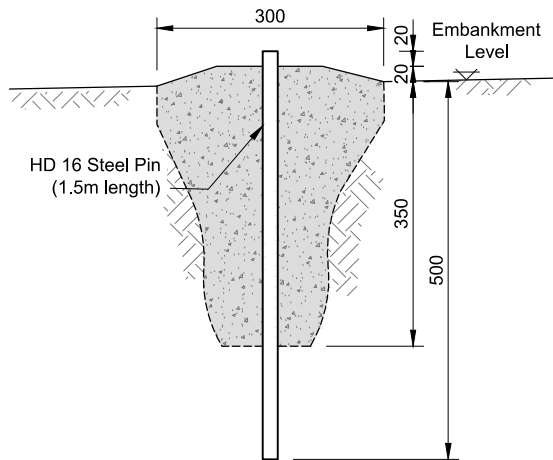
Graphic Scales

Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
DAMWATCH ENGINEERING BEYOND THE SURFACE		WEIR V-NOTCH CREST PLAN AND TYPICAL ISOMETRIC VIEW	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/180	Revision R1

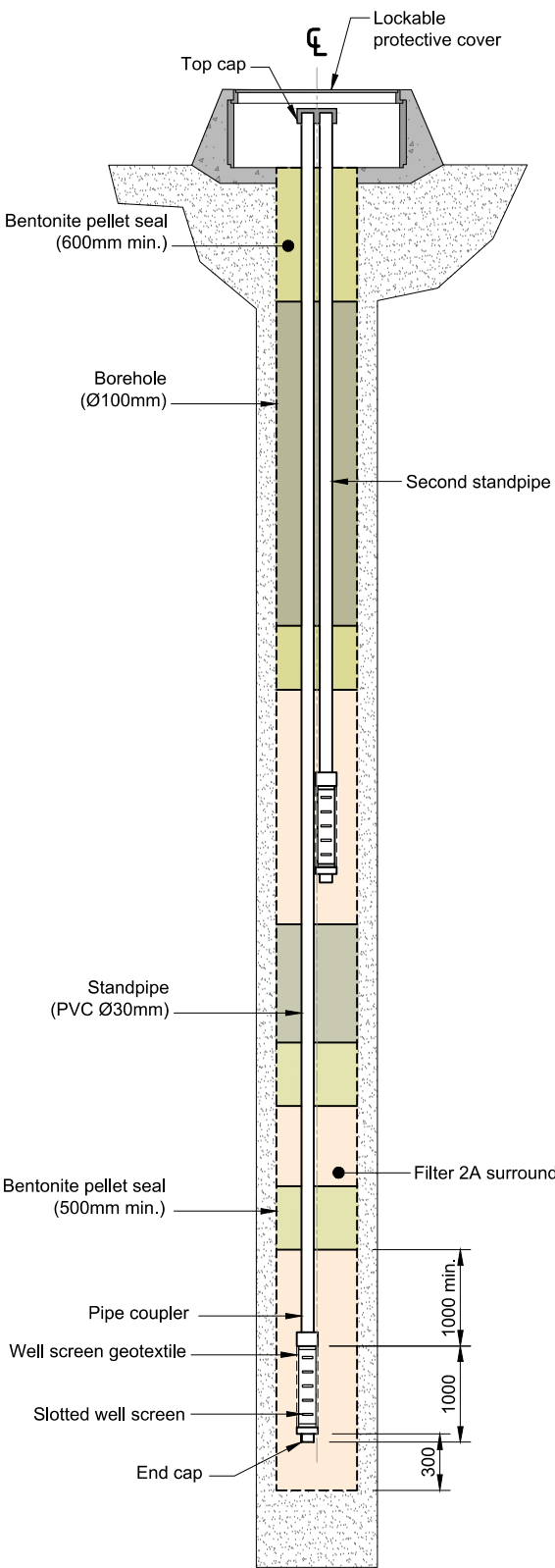
Original Sheet Size A3 (420x297)

C:\2205\data\dmw-mig-vms-004\E2142A Poads Road - Feasibility Design_280\6. CAD\DWG\PIR2142-30-104_180_181_182-Dam Safety Monitoring_161222.dwg (181-Monitoring)

0 10 mm 50 100 200 mm



TYPICAL SETTLEMENT MONITORING
POINT DETAIL SECTION
1:10



GENERAL ARRANGEMENT OF MONITORING WELL
NTS

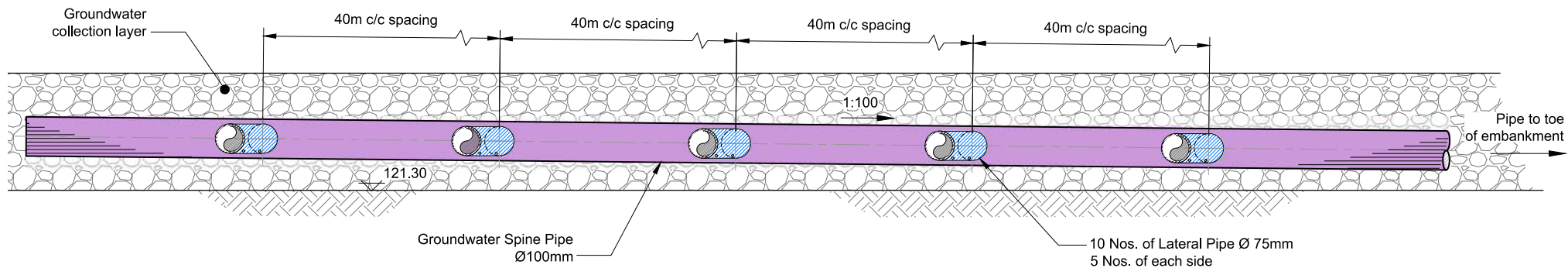
- Notes:
1. All coordinates are in NZTM and levels are to NZVD2016 mean sea level.
 2. All dimensions are in millimeters unless stated otherwise.

Rev	Comments	Drawn	Chk'd	Appr'd	Date
R1	Issued for Comments	FS	JE	S.M.	16/03/23

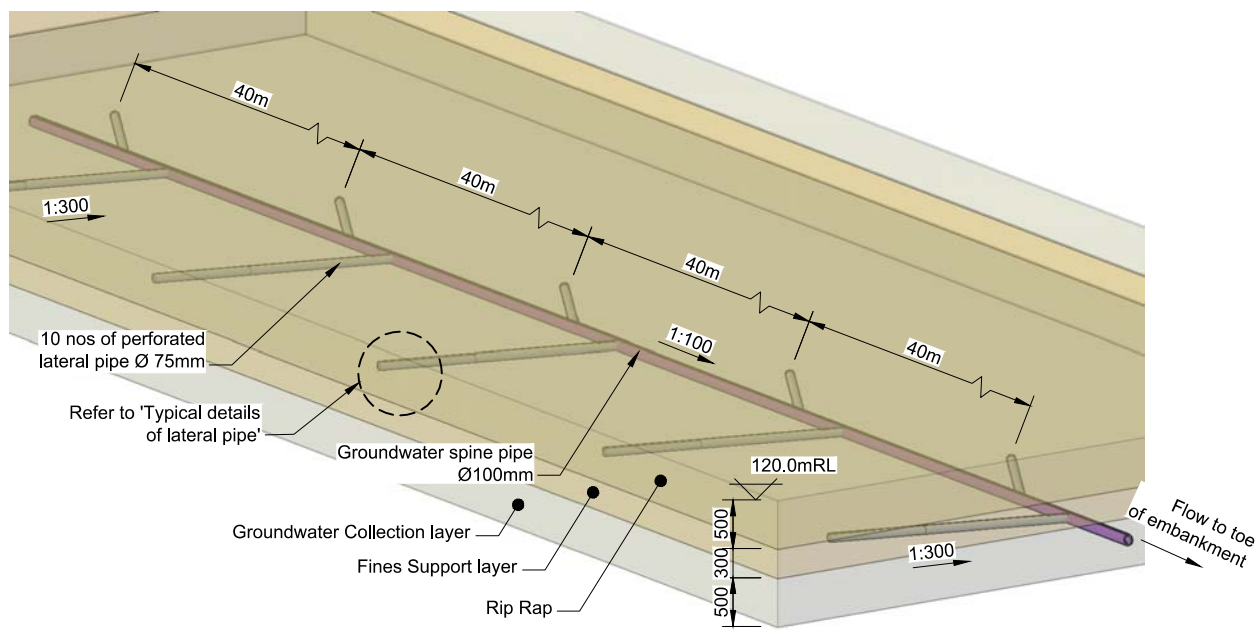
Graphic Scales

Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
DAMWATCH ENGINEERING BEYOND THE SURFACE		SETTLEMENT MONITORING POINT AND WELL TYPICAL SECTION AND DETAILS	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/181	Revision R1

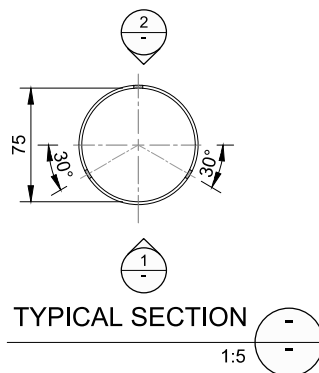
Original Sheet Size A3 (420x297)



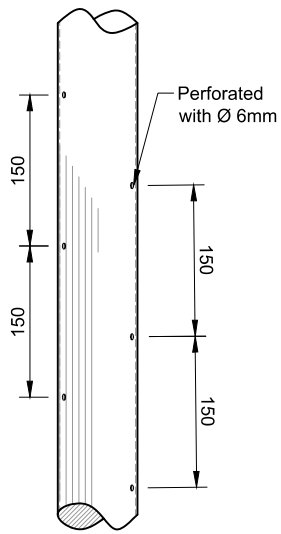
LONGITUDINAL SECTION 1:15



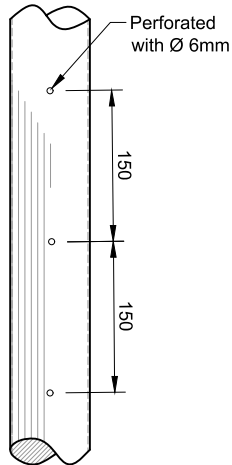
ISOMETRIC VIEW OF GROUND WATER DRAINAGE PIPE ARRANGEMENT NTS



TYPICAL DETAILS OF LATERAL PIPE



BOTTOM VIEW 1:7.5



TOP VIEW 2:7.5

Notes:

1. All co-ordinates are to NZTM and levels are to NZVD2016 mean sea level.
2. All dimensions are in millimeters unless stated otherwise.
3. This drawing shall read in conjunction to other drawings.
4. For longitudinal section location, refer to dwg PDR2142-30-104.

Rev	Comments	Drawn	Chk'd	Appr'd	Date
R1	Issued for Comments	FS	JE	S.M.	16/03/23

Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
DAMWATCH ENGINEERING BEYOND THE SURFACE		GROUNDWATER COLLECTION AND LATERAL PIPES SECTION AND TYPICAL DETAILS	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/182	Revision R1

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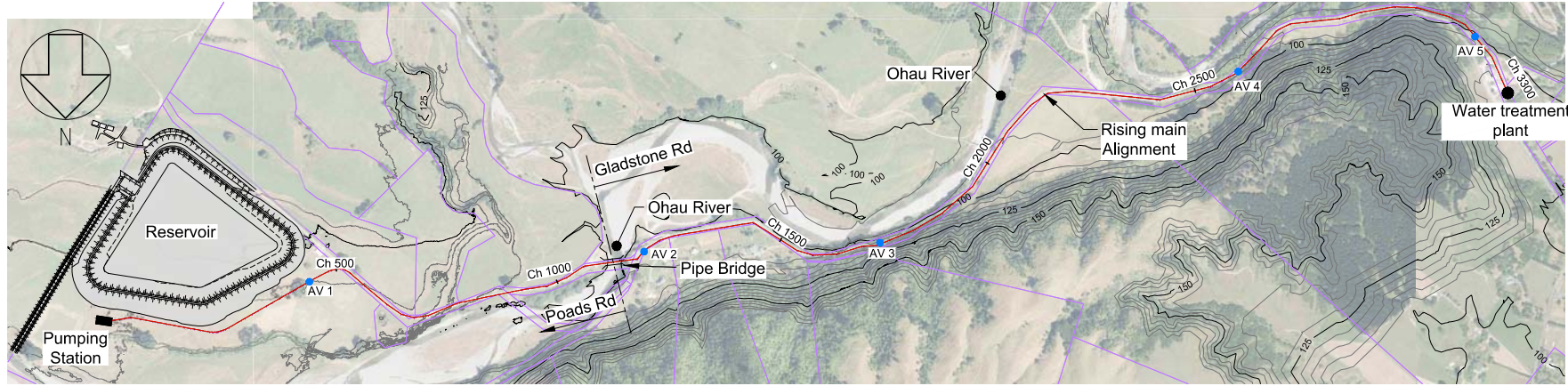
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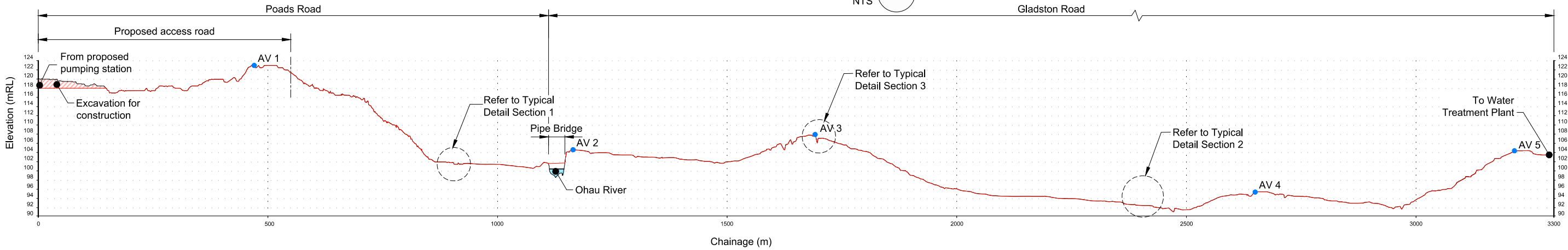
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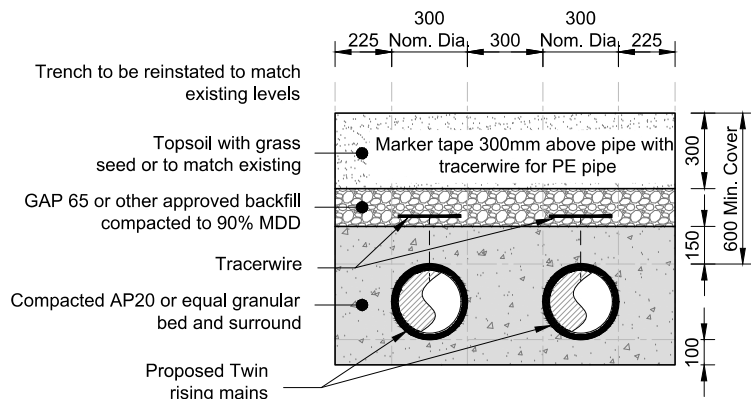
Notes Keys and References



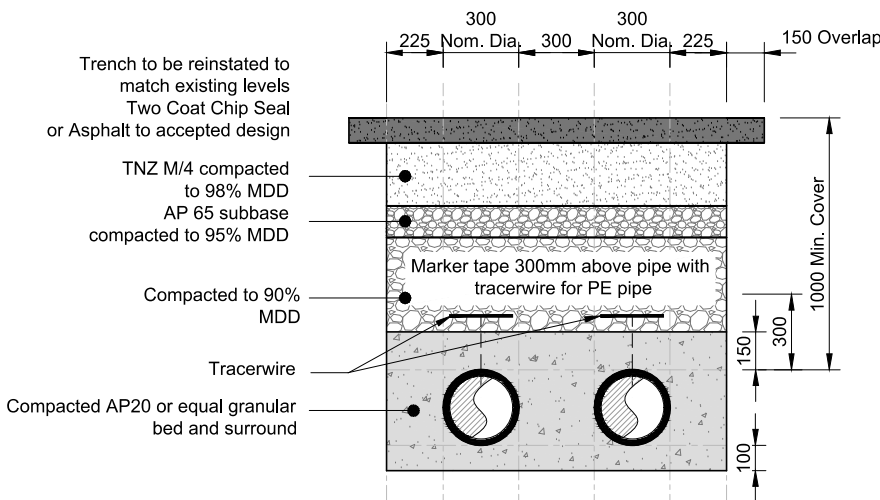
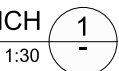
KEY LOCATION PLAN



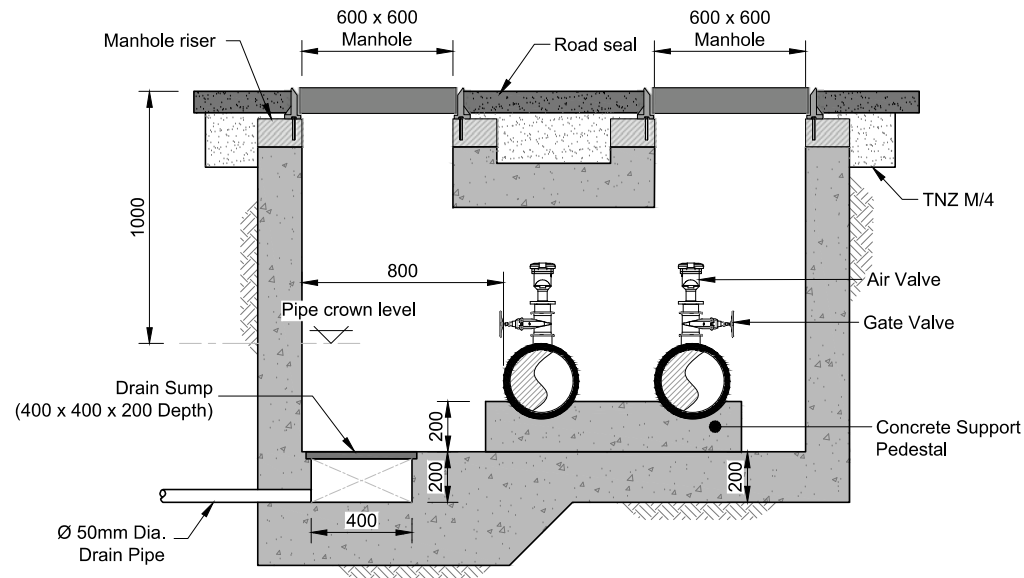
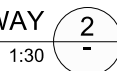
LONGITUDINAL SECTION OF RISING MAIN



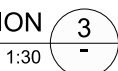
TYPICAL SECTION FOR NON-TRAFFICABLE TRENCH



TYPICAL DETAIL SECTION FOR CHIPSEAL CARRIAGEWAY



AIR VALVE CHAMBER IN ROAD DETAIL SECTION



Notes:

- All co-ordinates are to NZTM and levels are to NZVD2016 mean sea level.
- All units are in millimeters unless stated otherwise.
- All HDPE pipes shall be PE100 and sections shall be butt fusion welded.
- HDPE pipes shall be pressure tested and approved by the engineer in accordance with the specification before concrete encasement or backfilling.
- Any steel and ductile iron pipework, fittings and valves shall be manufactured, supplied, installed and tested in accordance with Watercare Services Ltd "Material Supply Standard" version 1.8 2020 or later.

Legend:

- Rising main profile
- Existing major profile (5m contour)
- Existing minor profile (0.5m contour)
- Existing Parcel
- AVxx Air Valve (at high point)

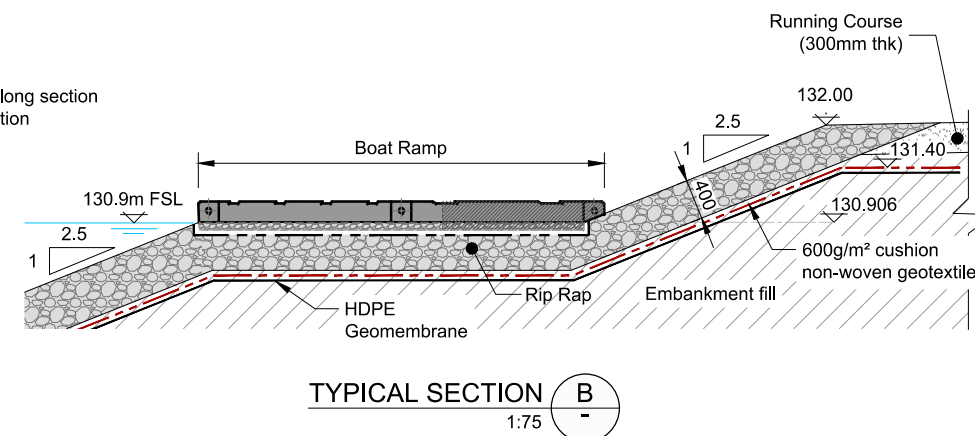
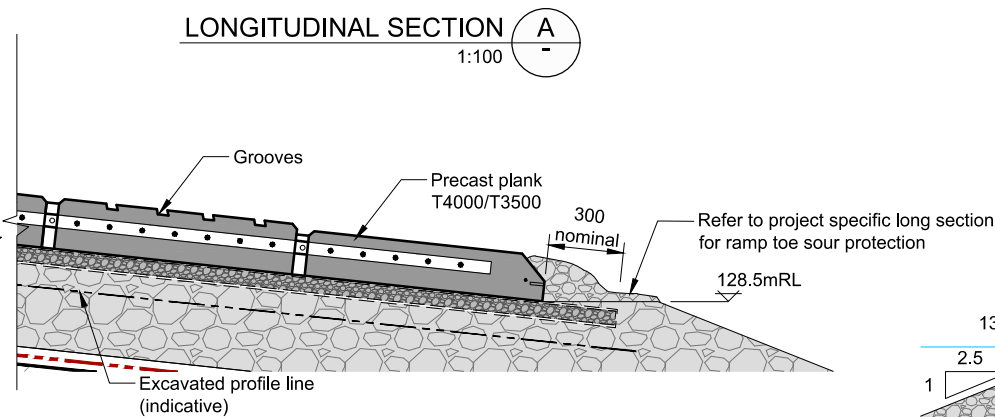
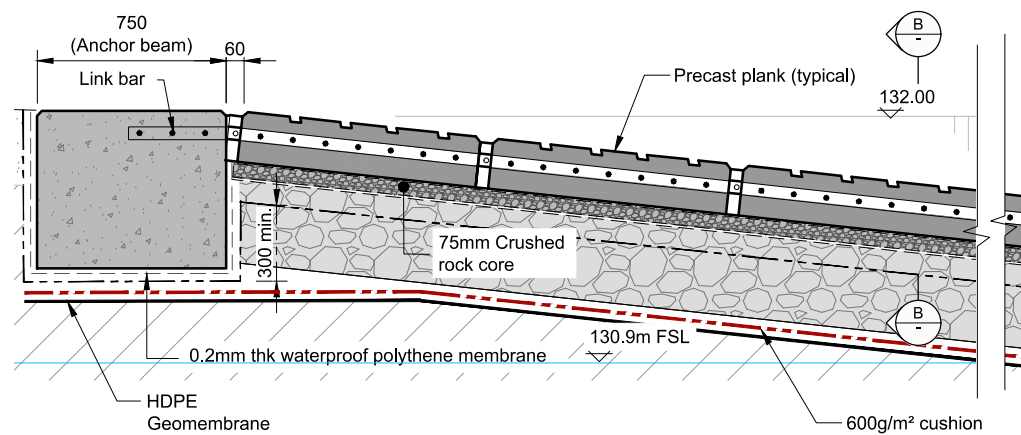
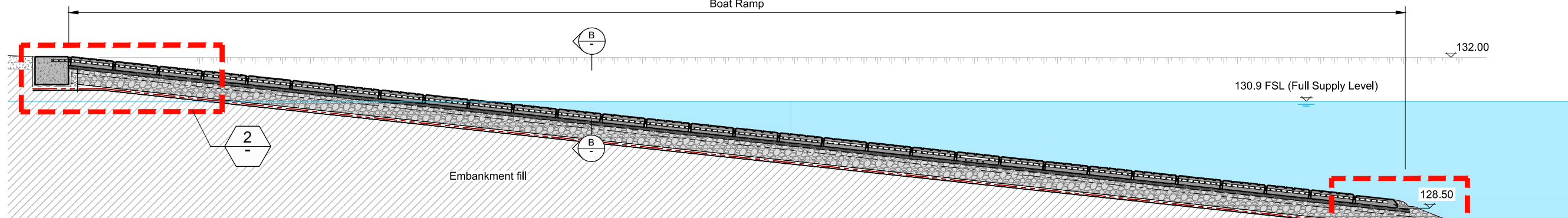
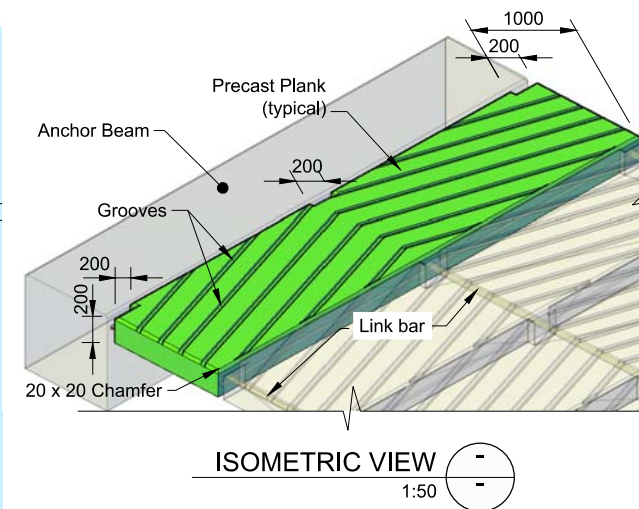
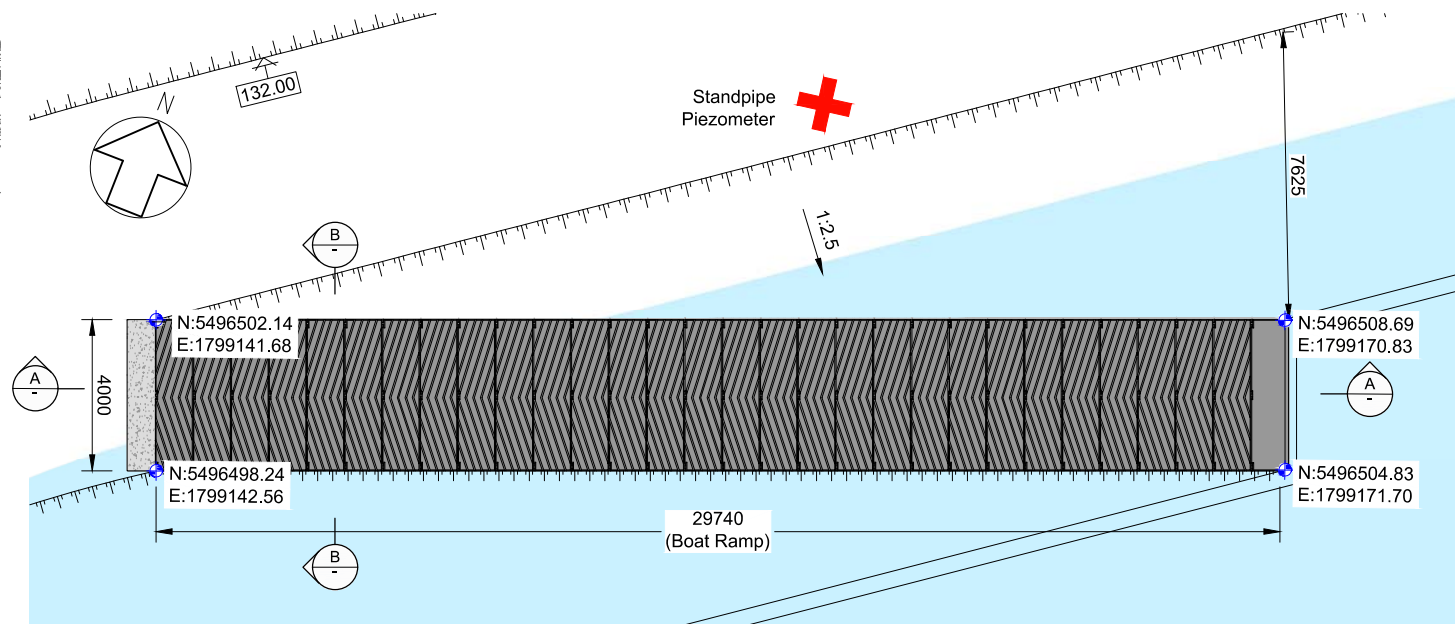
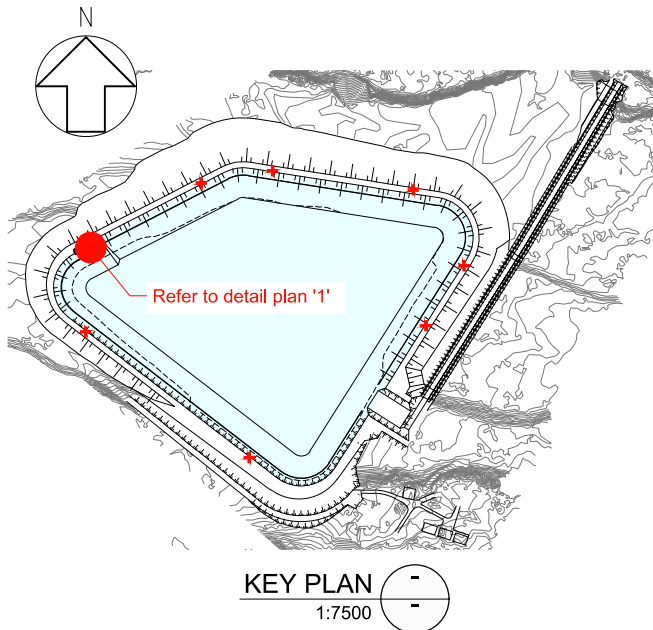
R1	Issued for Comments	FS	JE	S.M.	16/03/23
Rev	Comments	Drawn	Chk'd	Appr'd	Date

Graphic Scales

Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
DAMWATCH ENGINEERING BEYOND THE SURFACE		RISING MAINS TYPICAL SECTION AND DETAILS	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/190	Revision R1

Original Sheet Size A3 (420x297)

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Notes:

1. All co-ordinates are in NZTM and levels are to NZVD2016 mean sea level.
2. All dimensions are in millimeters unless stated otherwise.
3. For general layout plan refer to drawing no. PDR2141-30-104.
4. This drawing shall read in conjunction with other drawings.

R1	Issue For Comment	FS	JE	S.M.	16/03/23
Rev	Comments	Drawn	Chk'd	Appr'd	Date

Graphic Scales

Horowhenua DISTRICT COUNCIL		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
 ENGINEERING BEYOND THE SURFACE		BOAT RAMP LOCATION PLAN, SECTION AND TYPICAL DETAILS	
Scale AS SHOWN	Project E2142A	Drawing Number PDR2142/30/220	Revision R1

Original Sheet Size A3 (420x297)

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General

Drawings and Specifications

- The drawings shall be read in conjunction with all the other drawings and specifications and with other written instructions as may be issued during the contract.
- Drawings shall not be scaled for dimensions.
- All arrangements and dimensions shall be verified by contractor on site. Any discrepancy shall be referred to the engineer before proceeding with the works on site.
- The contractor shall verify all dimensions relating to existing work or items supplied by others on site.
- The contractor shall be responsible for their correctness, any differences found shall be notified to the engineer.
- Should the contractor at any time identify an error in a drawing or specification, discrepancy or variation between dimensions and measurement at site or lack of dimensions or any other information, the contractor shall notify the engineer and shall not proceed before clarification is received.
- The contractor shall raise a request for information (RFI) requesting the engineer for an additional/missing details that are required to undertake the construction of the works as per standard engineering practice.
- In the event of conflict between information shown on the drawings and the specifications, the more stringent shall take precedence.

Coordinates and Datum

- All Coordinates are in NZTM and elevation levels are in NZVD2016 mean sea level .

Codes and Standards

- Refer to the specification for all codes and standards relevant to the works.

Method Statement

- The contractor shall submit to the engineer its method statement for approval prior to the excavation of works on site.

Excavation and Fill

- All earthworks, excavation and fill, shall be in accordance with the earthworks specifications.

Structural

Concrete Works

- All concrete shall be installed in accordance with concrete specification.
- Mixing, transporting pouring and curing shall be in accordance with the concrete specification.
- Dimensions shown on the drawings are the theoretical. The contractor shall make allowance for fabrication tolerances and installation on site.
- Concrete strength shall be $f_c=30\text{MPa}$ at 28 days unless noted otherwise.
- Minimum cover to reinforcement shall be:
 - 75mm Cast against ground
 - 50mm typical unless noted otherwise
- Exposure classification: B2
- Blinding concrete (50mm) shall be provided where lining/subgrade does not adequately support rebar during construction.
- Codes and standards relevant to works, refer to the specification.

Reinforcement

- The reinforcement shall be installed in accordance with the concrete specification.

Reinforcement Abbreviations:

HD12-150-BF EW - Each Way
 BF - Both Faces
 TB - Top Bottom
 Max. Spacing (mm)
 Nom Bar Dia. (mm)
 Bar Grade and Type

Terminology

Type

R Plain bars grade 300 to NZS3679.1 (300MPa)
M Mesh to AS/NZS 4671 grade 500 (500MPa)
D Deformed bars grade 300E to AS/NZS 4671 (300MPa)
HD Deformed bars grade 500E to AS/NZS 4671 (500MPa)
HR Plain bars grade 500E to AS/NZS 4671 (500MPa)
RB Reidbar grade 500E to AS/NZS 4671 (500MPa)

- Maintain cover to reinforcement at chamfers, drip grooves, etc.
- Reinforcement is presented diagrammatically on the drawings and not necessarily in the projection.
- All reinforcement shall be minimum grade $f_y = 500\text{N/mm}^2$ U.N.O.

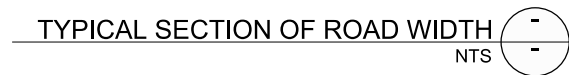
Notes Keys and References

R1	Issue For Comment	FS	JE	S.M.	16/03/23
Rev	Comments	Drawn	Chk'd	Appr'd	Date

Graphic Scales

		Title HOROWHENUA DISTRICT COUNCIL POADS ROAD WATER SUPPLY RESERVOIR	
		STANDARD DRAWING NOTES	
Scale NTS	Project E2142A	Drawing Number PDR2142/30/301	Revision R1

Original Sheet Size A3 (420x297)



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|---|----------|--|----------------|
|  | | Title
HOROWHENUA DISTRICT COUNCIL
POADS ROAD
WATER SUPPLY RESERVOIR | |
|  | | STANDARD DETAILS | |
| Scale | AS SHOWN | Project | E2142A |
| | | Drawing Number | PDR2142/30/302 |
| | | Revision | R1 |