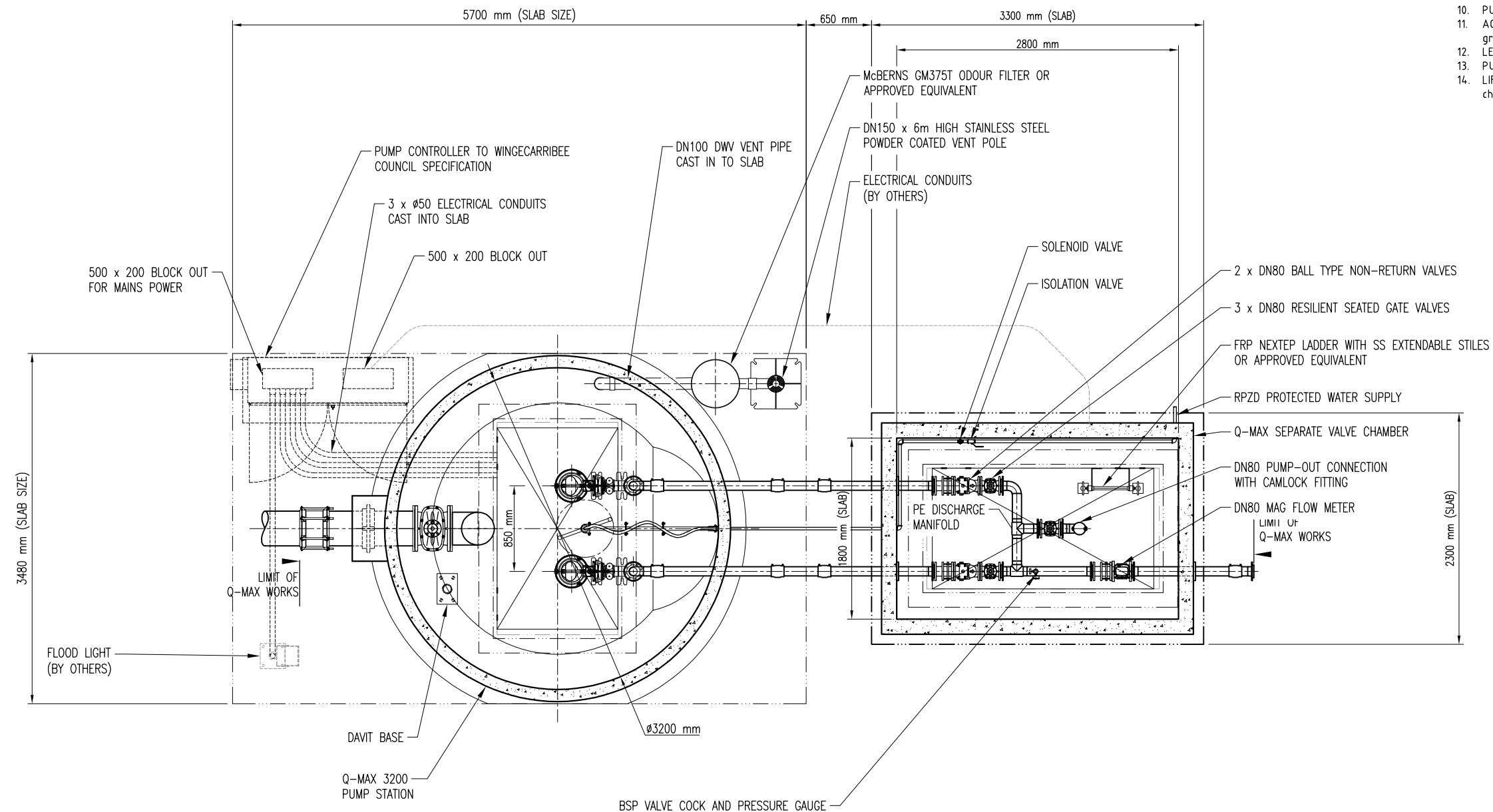


SPECIFICATIONS:

- INTERNAL DIAMETER - 3200mm nominal.
- METHOD OF MANUFACTURE - steel mould formed with intense mechanical vibration.
- CONCRETE TYPE - sulfate resistant using calcareous aggregate.
- STRENGTH - 50 MPa at 28 days. Internal finish to meet AS1510 Class 2.
- WALL THICKNESS - 120mm with 60mm internal cover over reinforcement. Design conforms to AS 3735.
- REINFORCEMENT - complies with AS/NZS 4671.
- VALVE CHAMBER - full size 2200mm X 1800mm - formed as one section.
- VALVES - 3 x DN80 resilient seated gate valves.
- 2 x DN80 ball type non-return valves.
- 1 x DN225 resilient seated inlet gate valve.
- PIPEWORK - DN90 PN16 (SDR11) HDPE Pipework.
- PUMPS - 2 x Sulzer XFP80E-CB1-PE110/2 submersible pumps - guiderail mounted.
- ACCESS COVERS - lockable hinged aluminium access covers with hinged safety grate over wet well
- LEVEL CONTROLS - BY OTHERS
- PUMP CONTROLLER - BY OTHERS
- LIFTING DETAILS - 4 x 10.0t 'Swift-Lifts' in base and 4 x 5.0t in increments, valve chamber & coverslab.



SECTIONAL PLAN VIEW
SCALE: 1:50 @ A3

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Rev	Description	Date
B	Inlet Chamber Removed	09.10.20
A	For Approval	06.10.20

Status

FOR APPROVAL

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Client

PRIME MOSS VALE PTY LTD

Project

CHELSEA GARDENS SEWER
PUMP STATION

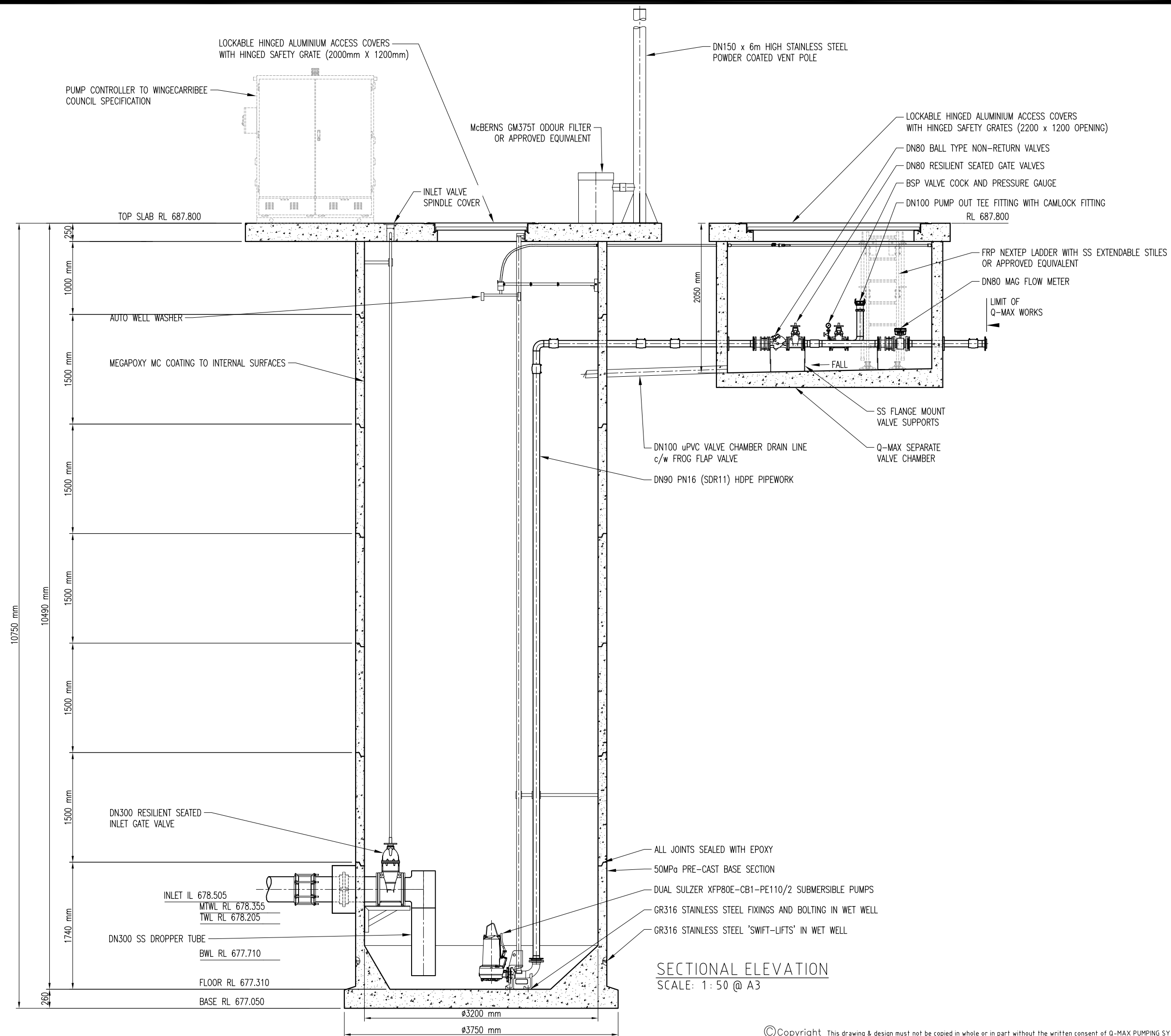
(INITIAL DESIGN)

Drawn	S. SHOKRAVI	Date	09.10.2020
Designed	D. PRIDHAM		
Checked	P. PRIDHAM	Sheet	2/7
Scale	1 : 50	Size	A3

Title

Q-MAX 3200 PUMP STATION
GENERAL LAYOUT
(PLAN VIEW)

Drg No.	7212/A2	Rev	B
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Rev	Description	Date
B	Inlet Chamber Removed and Inlet Updated	09.10.20
A	For Approval	06.10.20

Status

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Client

PRIME MOSS VALE PTY LTD

Project

CHELSEA GARDENS SEWER PUMP STATION
(INITIAL DESIGN)

Drawn	S. SHOKRAVI	Date	09.10.2020
Designed	D. PRIDHAM		
Checked	P. PRIDHAM	Sheet	3/7
Scale	1 : 50	Size	A3

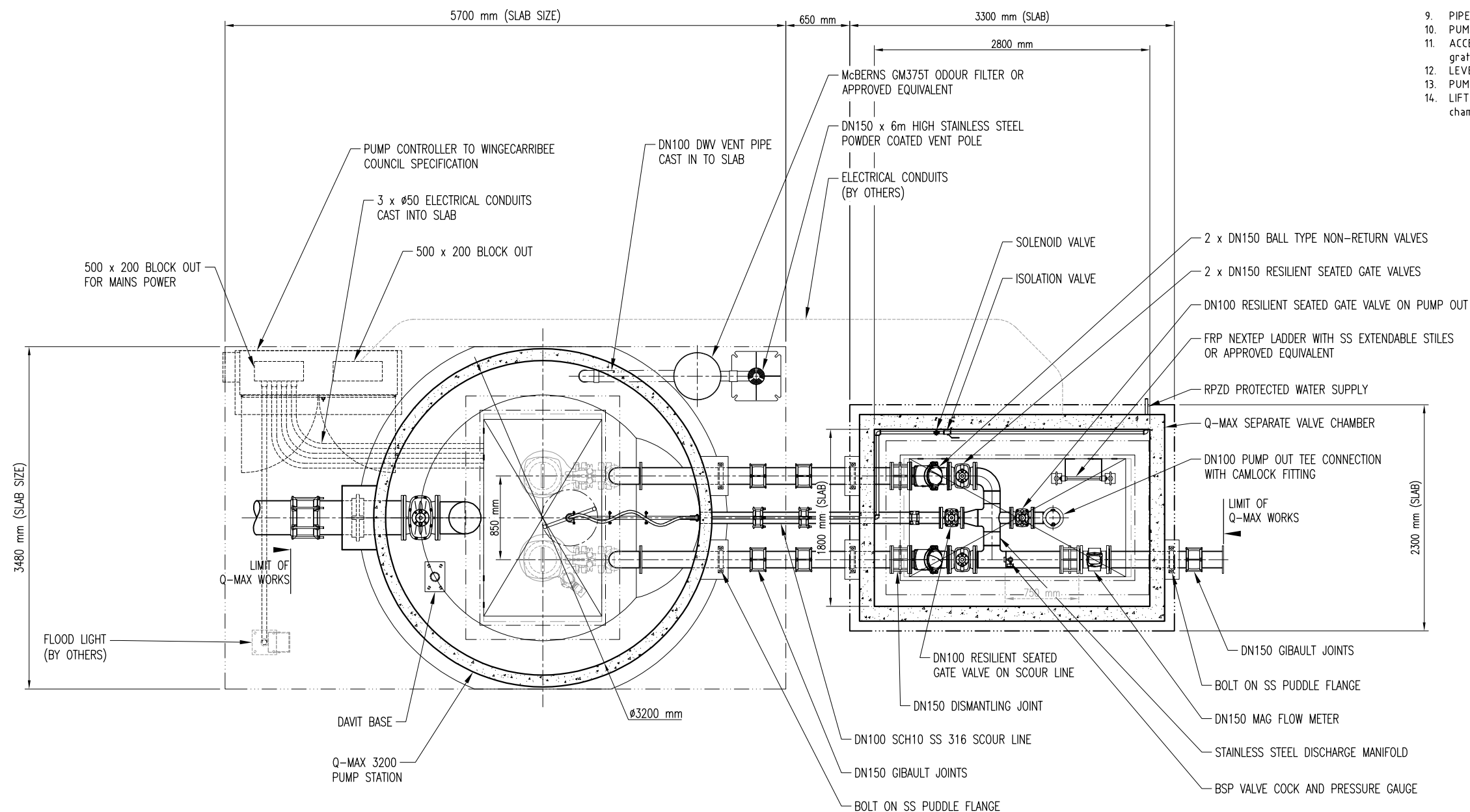
Title

**Q-MAX 3200 PUMP STATION
 GENERAL LAYOUT
 (SECTIONAL ELEVATION)**

Drg No.	7212/A3	Rev	B
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SPECIFICATIONS:

- INTERNAL DIAMETER - 3200mm nominal.
- METHOD OF MANUFACTURE - steel mould formed with intense mechanical vibration.
- CONCRETE TYPE - sulfate resistant using calcareous aggregate.
- STRENGTH - 50 MPa at 28 days. Internal finish to meet AS1510 Class 2.
- WALL THICKNESS - 120mm with 60mm internal cover over reinforcement. Design conforms to AS 3735.
- REINFORCEMENT - complies with AS/NZS 4671.
- VALVE CHAMBER - full size 2200mm X 1800mm - formed as one section.
- VALVES- 2 x DN150 resilient seated gate valves.
- 2 x DN150 ball type non-return valves.
- 2 x DN100 resilient seated gate valve.
- 1 x DN225 resilient seated inlet gate valve.
- PIPEWORK - DN150 Sch10 316 SS Pipework.
- PUMPS - Dual submersible pumps - guiderail mounted.
- ACCESS COVERS - lockable hinged aluminium access covers with hinged safety grate over wet well
- LEVEL CONTROLS - BY OTHERS
- PUMP CONTROLLER - BY OTHERS
- LIFTING DETAILS - 4 x 10.0t 'Swift-Lifts in base and 4 x 5.0t in increments, valve chamber & coverslab.



SECTIONAL PLAN VIEW
SCALE: 1: 50 @ A3

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Rev	Description	Date
B	Inlet Chamber Removed	09.10.20
A	For Approval	02.10.20

Status
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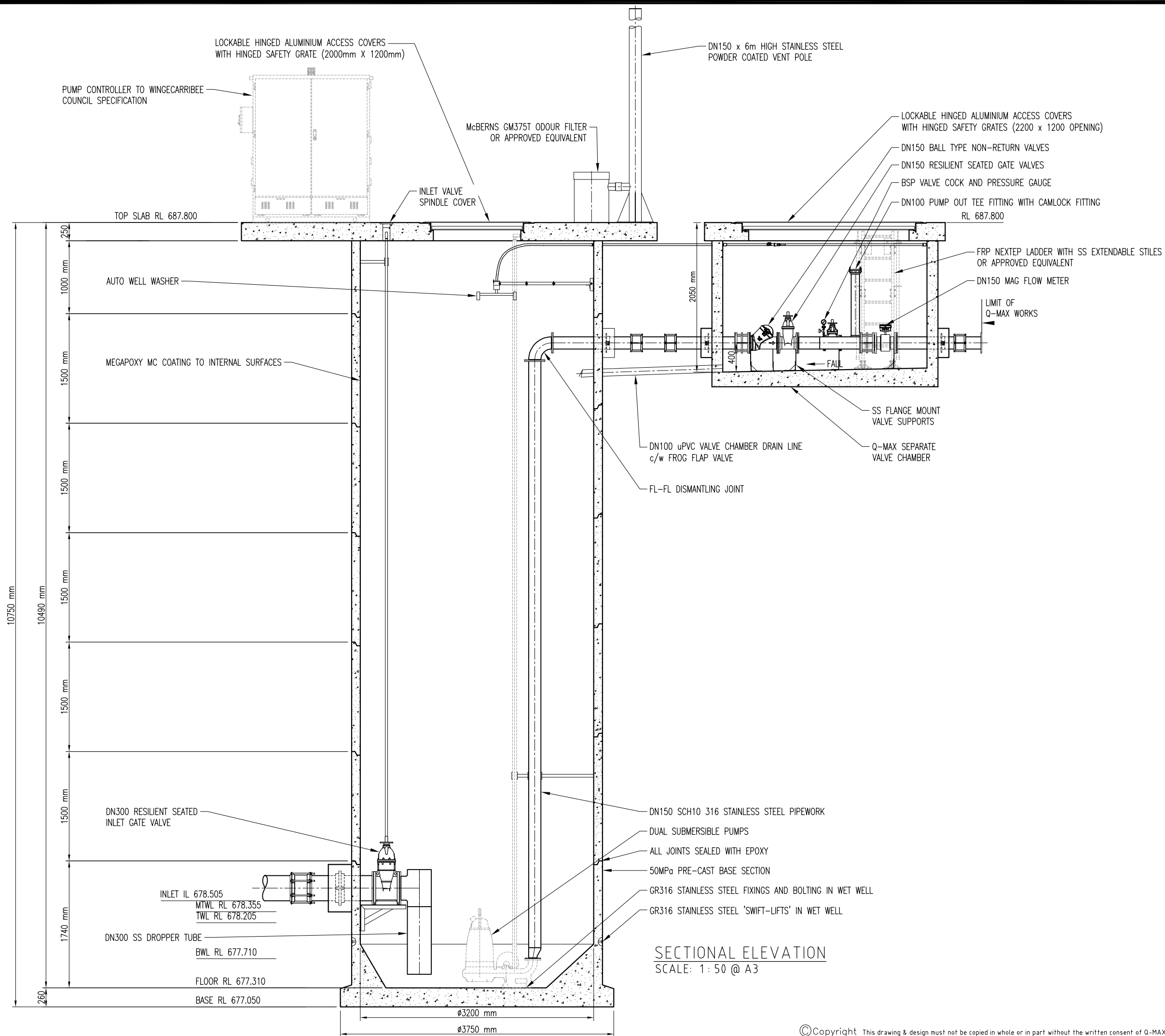
Client
PRIME MOSS VALE PTY LTD

Project
**CHELSEA GARDENS SEWER
PUMP STATION
(ULTIMATE DESIGN)**

Drawn	S. SHOKRAVI	Date	09.10.2020
Designed	D. PRIDHAM		
Checked	P. PRIDHAM	Sheet	4/7
Scale	1 : 50	Size	A3

Title
**Q-MAX 3200 PUMP STATION
GENERAL LAYOUT
(PLAN VIEW)**

Drg No.	7212/A4	Rev	B
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Rev	Description	Date
B	Inlet Chamber Removed and Inlet Updated	09.10.20
A	For Approval	02.10.20

Status
FOR APPROVAL

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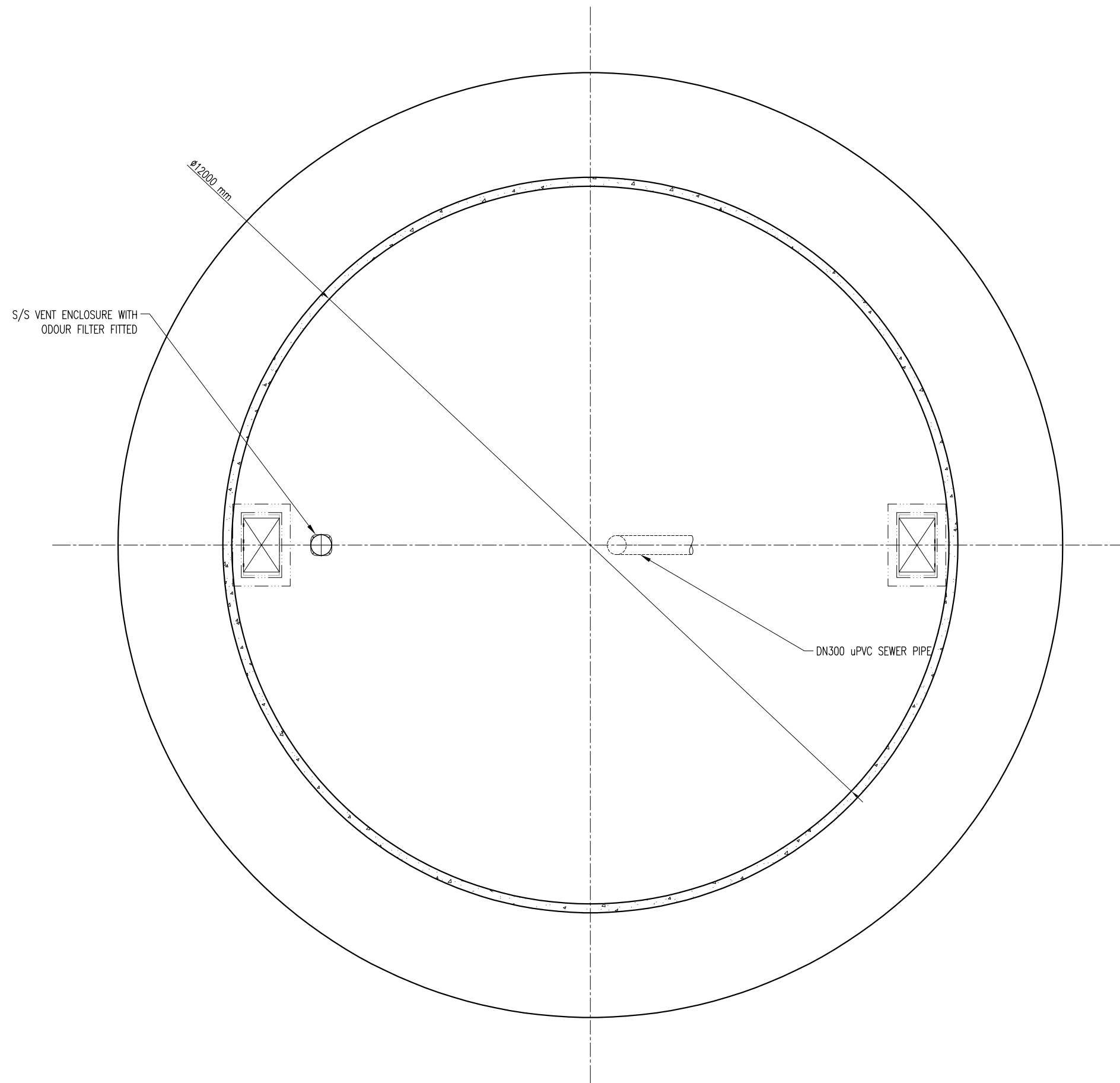
Client
PRIME MOSS VALE PTY LTD

Project
**CHELSEA GARDENS SEWER
 PUMP STATION
 (ULTIMATE DESIGN)**

Drawn	S. SHOKRAVI	Date	09.10.2020
Designed	D. PRIDHAM	Sheet	5/7
Checked	P. PRIDHAM	Size	A3
Scale	1:50		

Title
**Q-MAX 3200 PUMP STATION
 GENERAL LAYOUT
 (SECTIONAL ELEVATION)**

Drg No.	7212/A5	Rev	B
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Ø12m EMERGENCY STORAGE TANK
250 KL CAPACITY
PLAN VIEW
SCALE: 1:75 @ A3

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Rev	Description	Date
B	EST Updated	30.08.21
A	For Approval	02.10.20

Status
FOR APPROVAL



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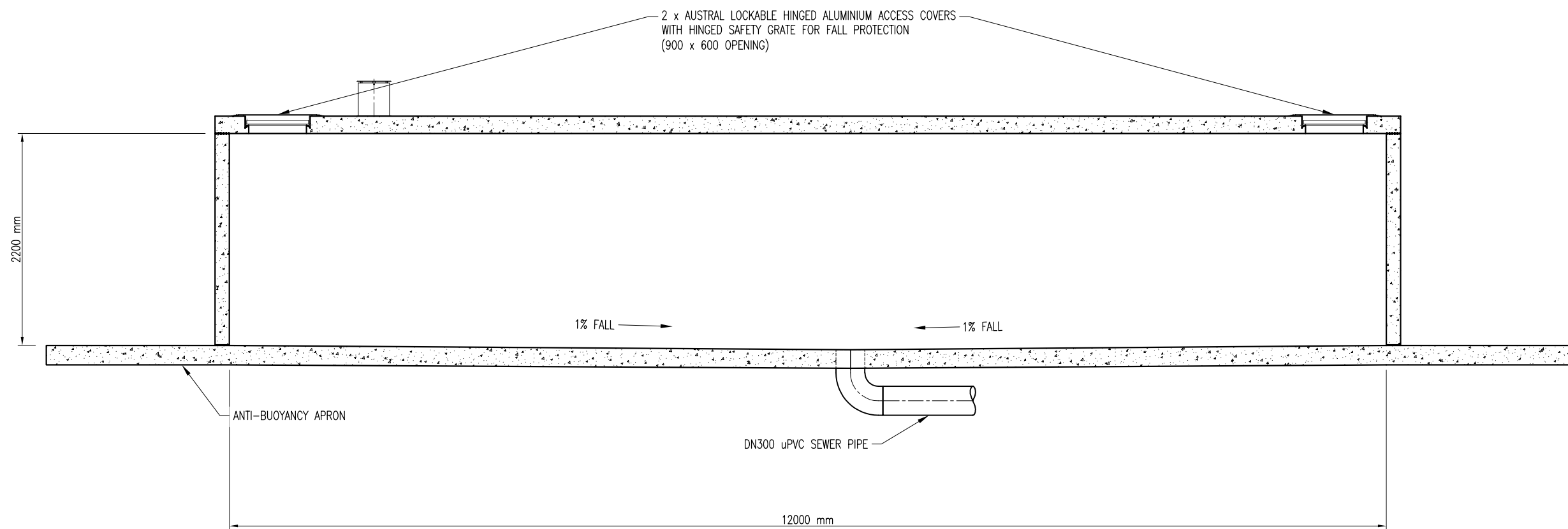
Client
PRIME MOSS VALE PTY LTD

Project
**CHELSEA GARDENS SEWER
PUMP STATION**

Drawn	S. SHOKRAVI	Date	30.08.2021
Designed	D. PRIDHAM	Sheet	6/7
Checked	P. PRIDHAM	Size	A3
Scale	1 : 75		

Title
**Q-MAX 3200 PUMP STATION
523KL CAPACITY EMERGENCY
STORAGE TANK
(PLAN VIEW)**

Drg No.	7212/A6	Rev	B
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Ø12m EMERGENCY STORAGE TANK
250 KL CAPACITY
ELEVATION
SCALE: 1 : 50 @ A3

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Rev	Description	Date
B	EST Updated	30.08.21
A	For Approval	02.10.20

Status
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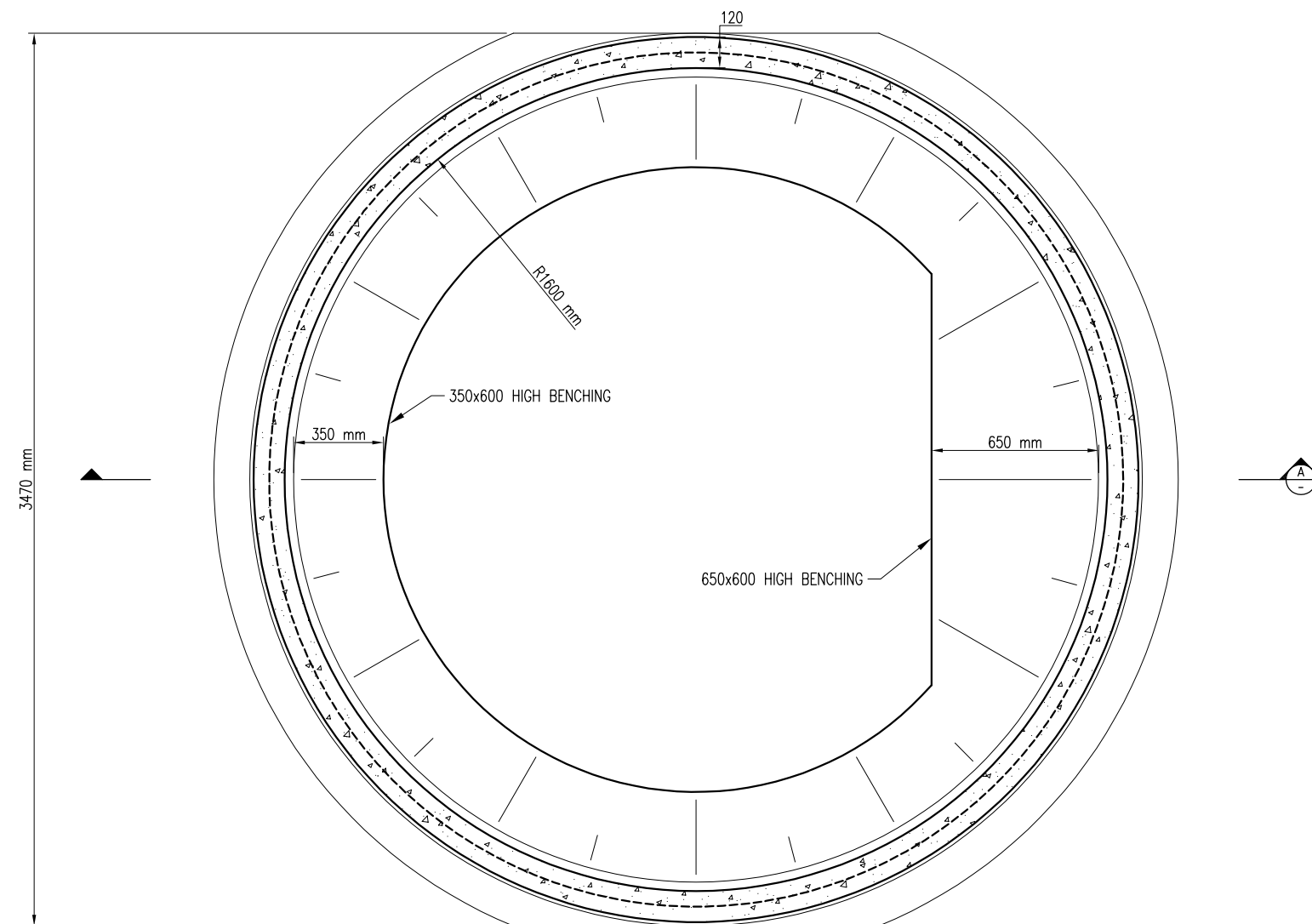
Client
PRIME MOSS VALE PTY LTD

Project
CHELSEA GARDENS SEWER PUMP STATION

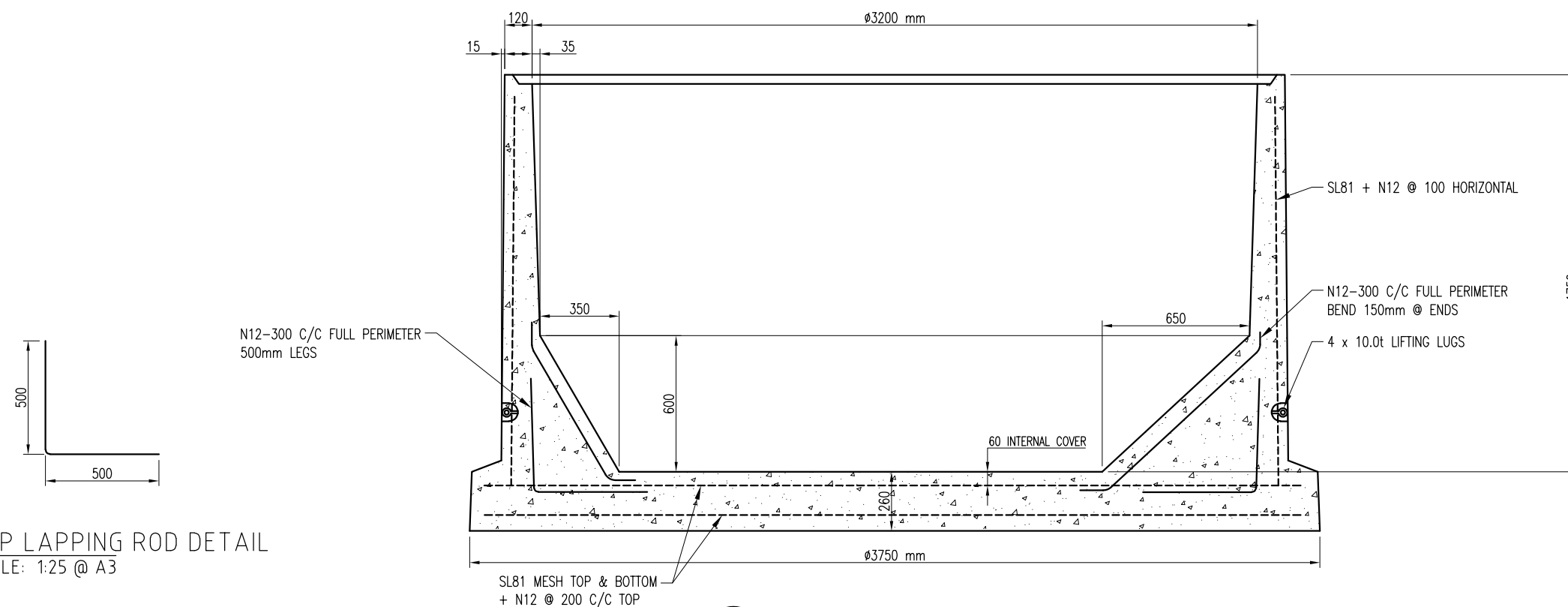
Drawn	S. SHOKRAVI	Date	30.08.2021
Designed	D. PRIDHAM	Sheet	7/7
Checked	P. PRIDHAM	Size	A3
Scale	1 : 50		

Title
**Q-MAX 3200 PUMP STATION
523KL CAPACITY EMERGENCY STORAGE TANK
(SECTIONAL ELEVATION)**

Dwg No.	7212/A7	Rev	B
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TYP BASE CASTING PLAN
SCALE: 1:25 @ A3



TYP LAPPING ROD DETAIL
SCALE: 1:25 @ A3

A SECTION THROUGH BASE CASTING
SCALE: 1:25 @ A3

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Rev	Description	Date
A	For Approval	17.08.21

Status
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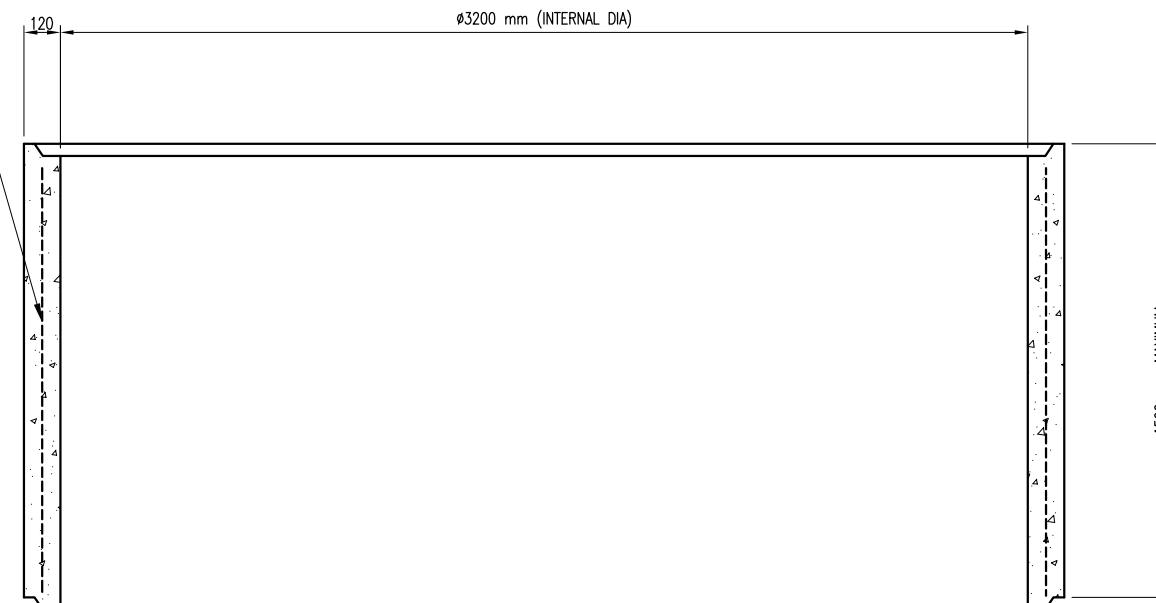
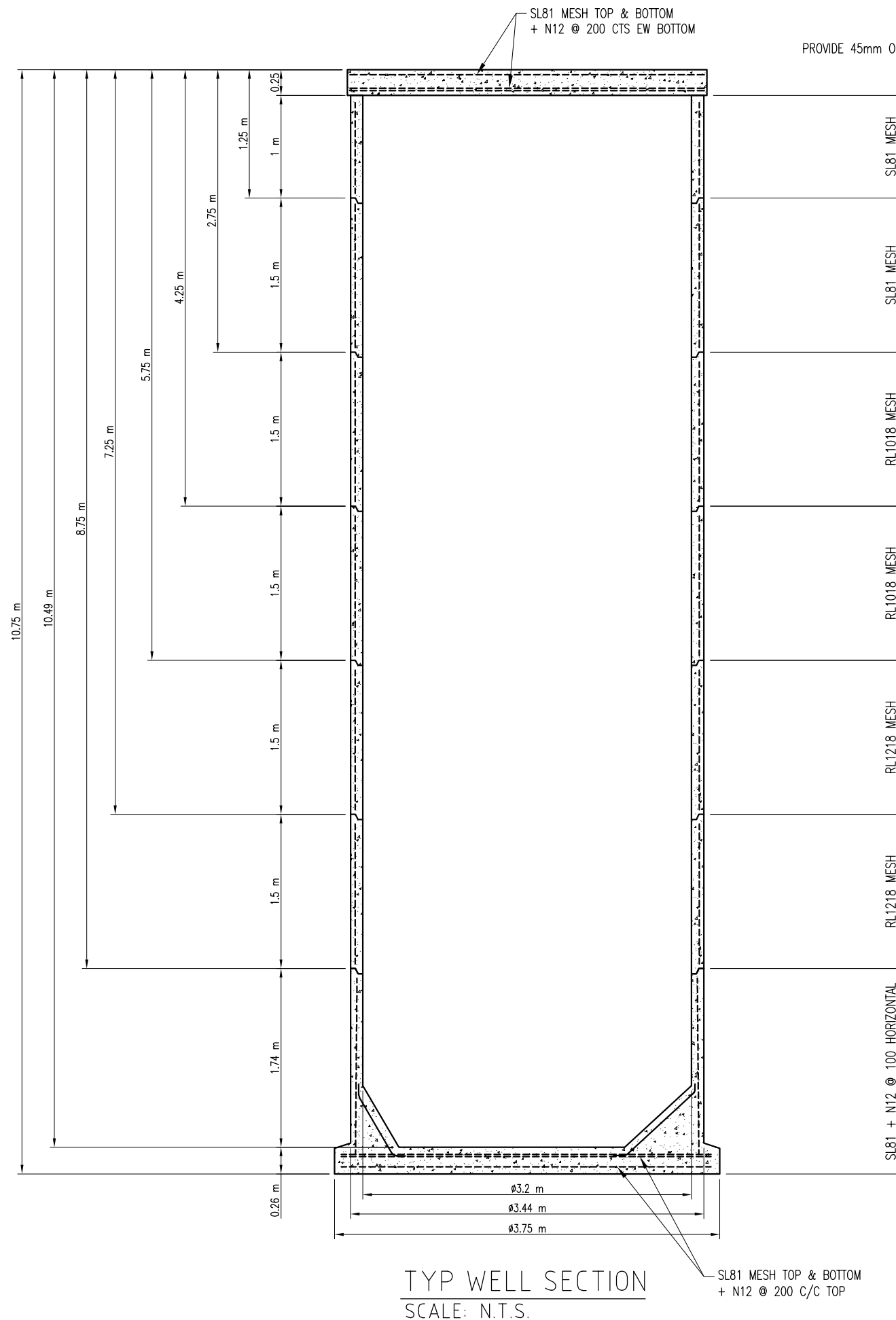
Client
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Project
CHELSEA GARDENS SEWER PUMP STATION

Drawn	S. SHOKRAVI	Date	17.08.2021
Designed	D. PRIDHAM		
Checked	P. PRIDHAM	Size	A3

Title
Q-MAX 3200 BASE SECTION CASTING REINFORCEMENT DETAIL

Scale	1 : 25	Rev	A
Drg No.	7212/R01		



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Rev	Description	Date
A	For Approval	17.08.21

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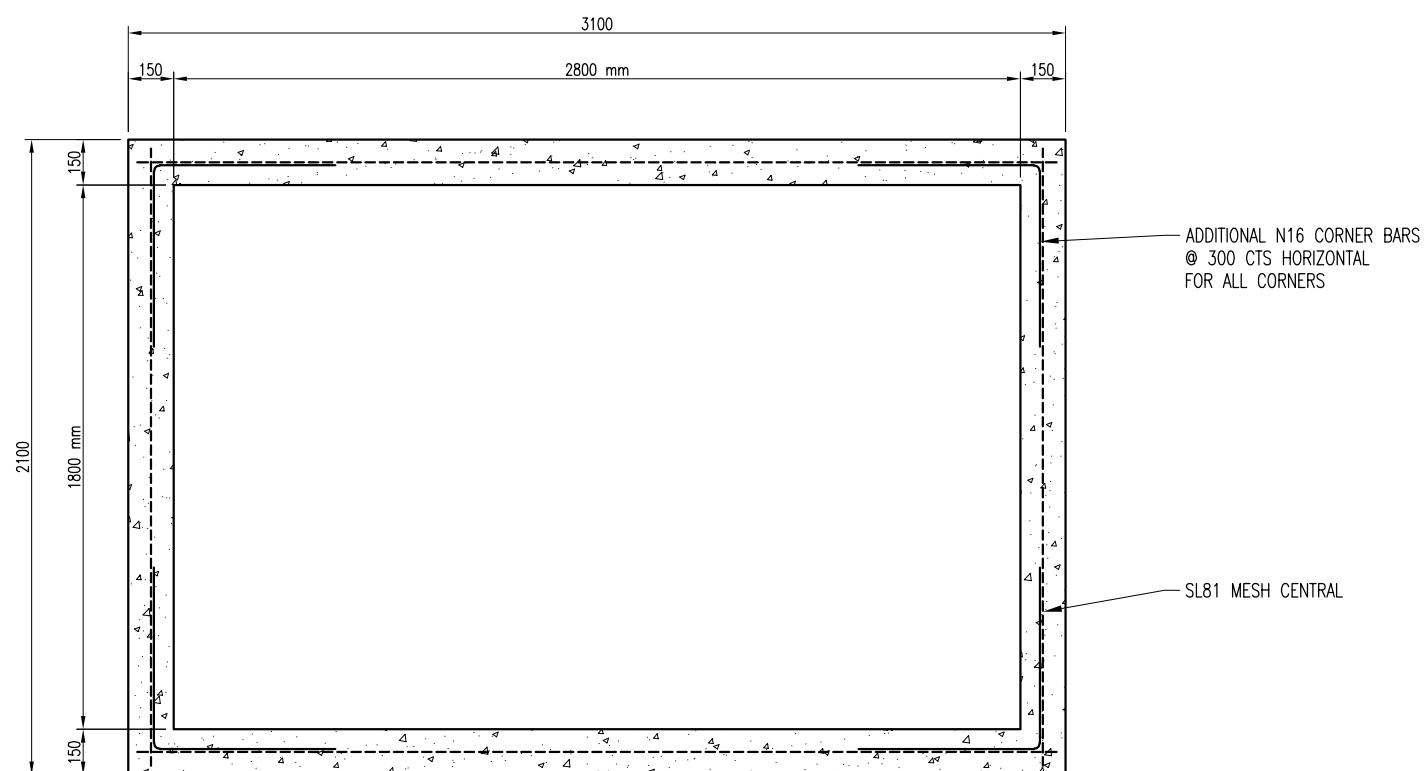
Client
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Project
**CHELSEA GARDENS SEWER
 PUMP STATION**

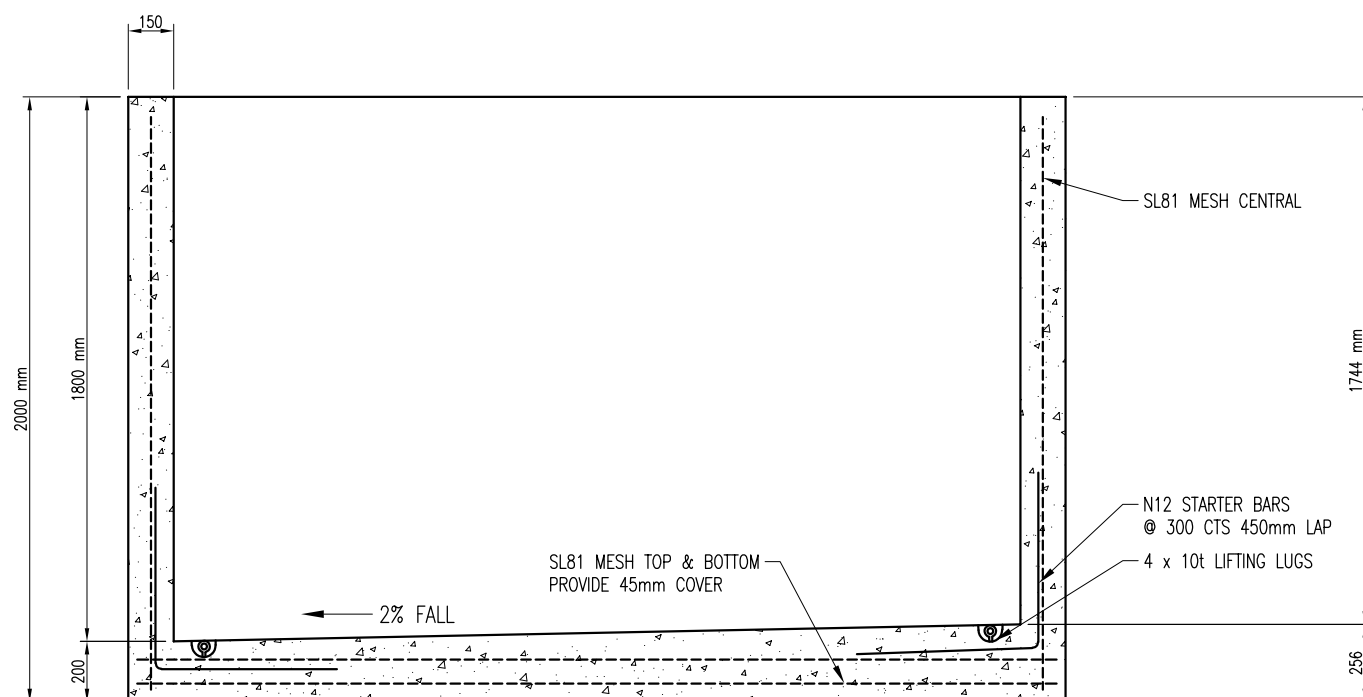
Drawn	S. SHOKRAVI	Date	17.08.2021
Designed	D. PRIDHAM		
Checked	P. PRIDHAM	Size	A3

Title
**Q-MAX 3200 STANDARD
 INCREMENT CASTING
 REINFORCEMENT DETAIL**

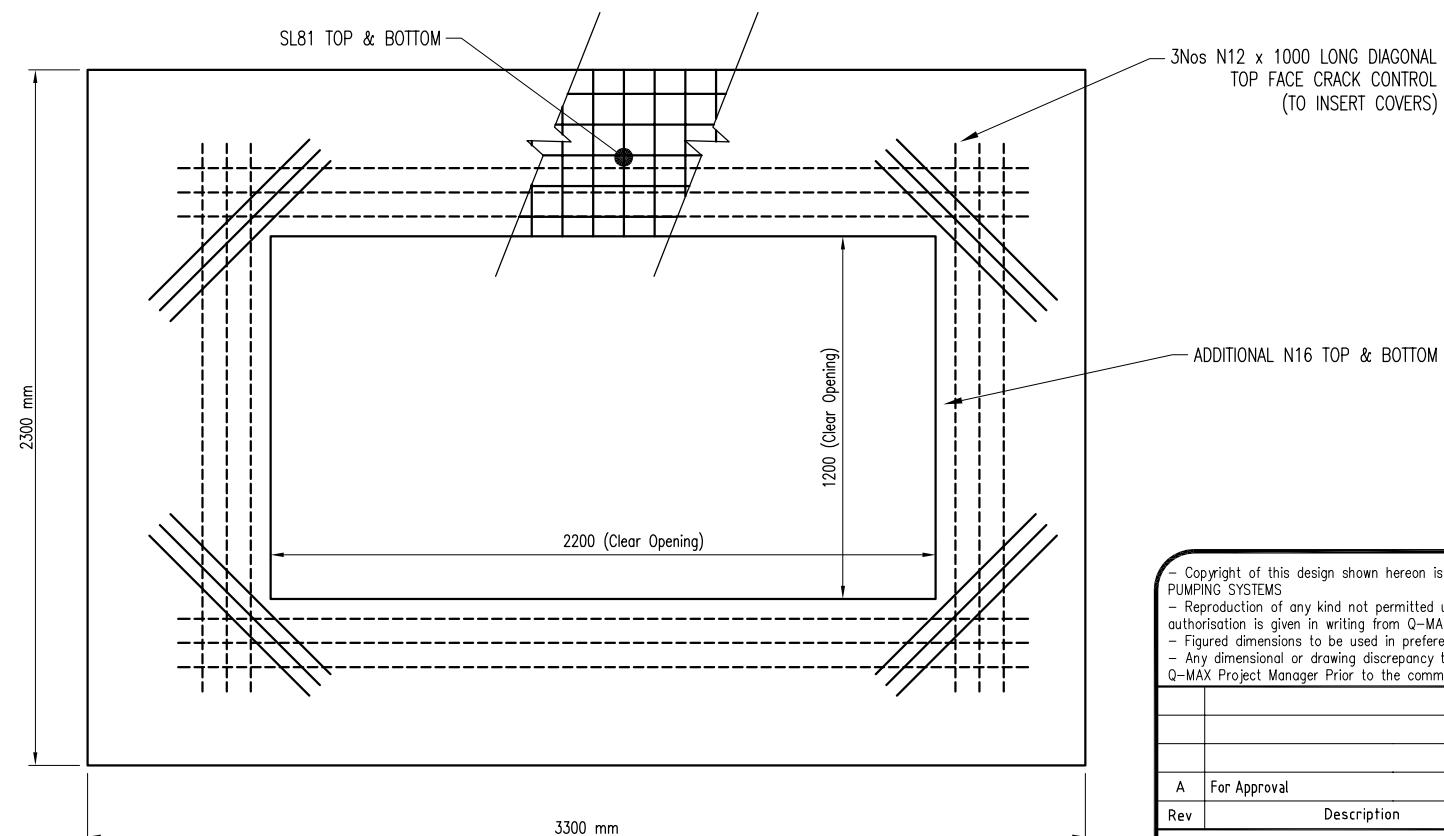
Scale	N.T.S.	Rev	A
Drg No.	7212/R02		



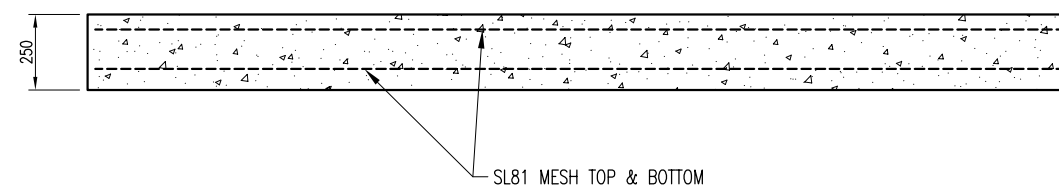
VALVE CHAMBER CASTING PLAN
SCALE: 1:25 @ A3



SECTION THROUGH VALVE CHAMBER
SCALE: 1:25 @ A3



VALVE CHAMBER COVER SLAB PLAN
SCALE: 1:25 @ A3



VALVE CHAMBER COVER SLAB SECTION
SCALE: 1:25 @ A3

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Rev	Description	Date
A	For Approval	17.08.21

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Project

CHELSEA GARDENS SEWER
PUMP STATION

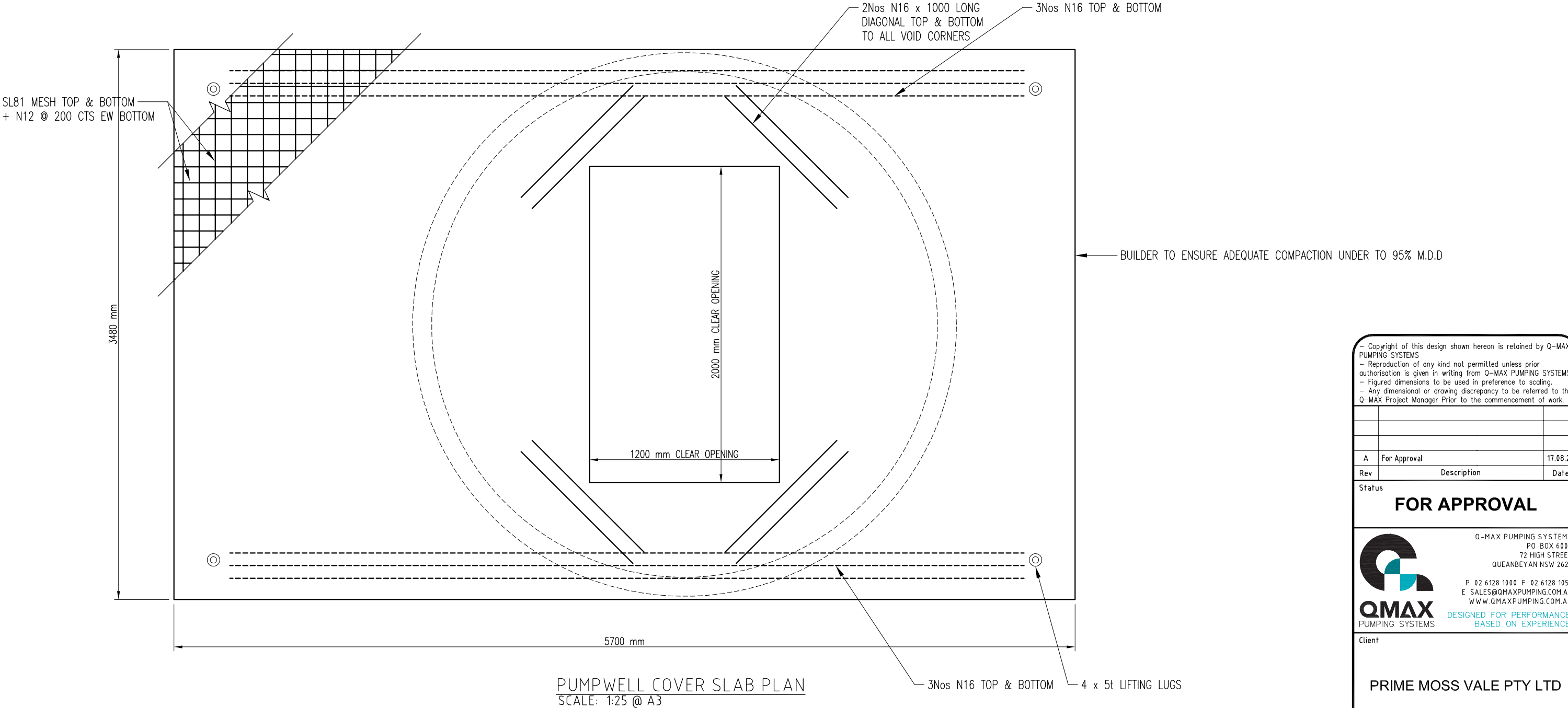
Drawn	S. SHOKRAVI	Date	17.08.2021
Designed	D. PRIDHAM		
Checked	P. PRIDHAM	Size	A3

Title

Q-MAX 3200 VALVE CHAMBER
CASTING REINFORCEMENT
DETAIL

Scale	1 : 25	Rev	A
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Drw No. 7212/R03



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Rev	Description	Date
A	For Approval	17.08.21

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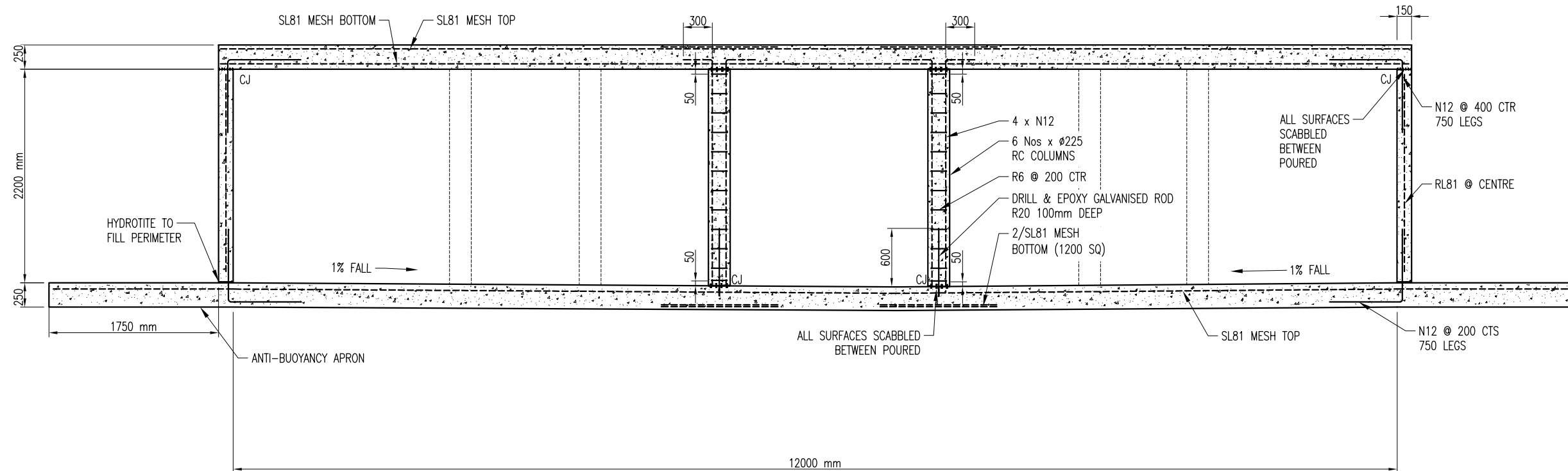
Project
CHELSEA GARDENS SEWER PUMP STATION

Drawn	S. SHOKRAVI	Date	17.08.2021
Designed	D. PRIDHAM		
Checked	P. PRIDHAM	Size	A3

Title
Q-MAX 3200 COVER SLAB CASTING REINFORCEMENT DETAIL

Scale	1 : 25	Rev	A
Drg No.	7212/R04		

1. BASE & WALLS TO BE 40MPa CONCRETE, ROOF & COLUMNS TO BE 40MPa CONCRETE, MAX 20mm AGGREGATE TO AS 3600.
2. MINIMUM ALLOWABLE BEARING PRESSURE SOIL UNDER THE TANK TO BE 150 kPa.
3. THE MAXIMUM TANK INTERNAL WALL HEIGHT TO BE 2200mm.
4. MINIMUM LIVE LOAD APPLIED ON THE TANK TO BE 5KPa.
5. THE STRUCTURE HAS BEEN DESIGNED TO AS 3600 & AS 3735 CONCRETE STRUCTURES FOR RETAINING LIQUIDS.
6. MINIMUM FABRIC SPLICE TO BE 250mm.
7. CONCRETE COVER TO REINFORCEMENT TO BE 50mm & 65mm @ AIR/WATER FACE.
8. PROVIDE 2/N12 TRIMMERS (40FF) AROUND ANY WALL PENETRATIONS.
9. THE TANK HAS BEEN DESIGNED FOR BUOYANCY FOR FLOOD LEVELS @ TOP OF TANK ROOF AT NATURAL LEVEL.



Ø12m EMERGENCY STORAGE TANK
250 KL CAPACITY
ELEVATION
SCALE: 1: 50 @ A3

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A	For Approval	27.08.21
Rev	Description	Date

Status **FOR APPROVAL**



Client

PRIME MOSS VALE PTY LTD

Project

**CHELSEA GARDENS SEWER
PUMP STATION**

Drawn	S. SHOKRAVI	Date 27.08.2021
Designed	D. PRIDHAM	
Checked	P. PRIDHAM	Size A3

Title

Q-MAX Ø12m 250KL
EMERGENCY STORAGE TANK
REINFORCEMENT DETAILS
SECTIONAL ELEVATION

Scale	1 : 50	Rev	A
Dwg No.	7212/R05		