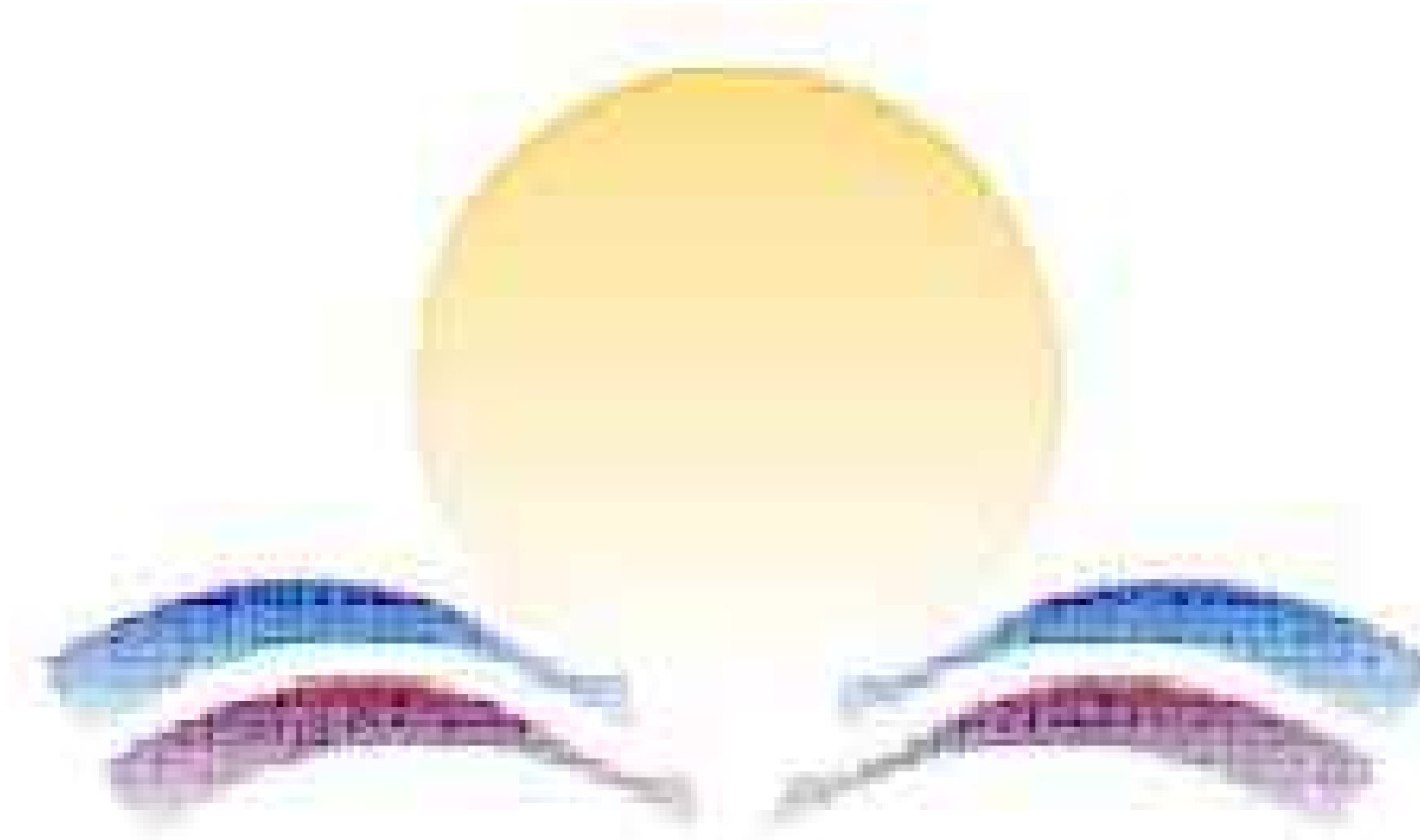


UGU DISTRICT MUNICIPALITY



FARM ISONTI LOW COST SANITATION SCHEME - PHASE 2
CONTRACT No.: UGU-07-1663-2024

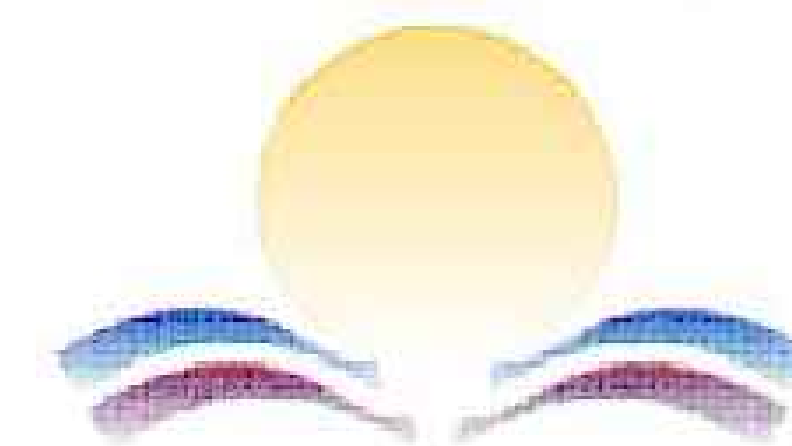
TENDER DRAWINGS
AUGUST 2024

COMPILED BY:



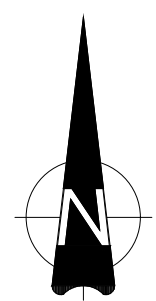
MAFAHLENI ENGINEERS &
PROJECT MANAGERS
3 UMDONI ROAD
OSLO BEACH
PORT SHEPSTONE
4240

ON BEHALF OF :



UGU DISTRICT MUNICIPALITY

96 MARINE DRIVE
OSLO BEACH
PORT SHEPSTONE
4240



LAYOUT PLAN
SCALE 1:2000

ISSUED FOR TENDER

LEGEND	DESCRIPTION
	Bulk Sewer line
	Bulk Sewer Pumping line
	Sewer Reticulation
	Existing Bulk Sewer line
	New Pump Station
	Existing Pump Station
	New Sump Station

DRAWING No.	DESCRIPTION
UGU-2009-006-800-S-01 UGU-2009-006-800-S-02 UGU-2009-006-800-S-03 UGU-2009-006-800-S-04 UGU-2009-006-800-S-05	OVERALL LAYOUT: SHEET 1 OF 5 BULK SEWER: SHEET 2 OF 5 BULK SEWER: SHEET 3 OF 5 BULK SEWER: SHEET 4 OF 5 BULK SEWER: SHEET 5 OF 5

DATE	REVISIONS	INIT.

	INITIAL	SIGNATURE	DESIGNATION
DESIGNED	M. MHLOPHE		DESIGN ENGINEER
DRAWN	Z. BYELA		CAD TECHNICIAN
CHECKED	T. ZUMA		PROJECT ENGINEER
APPROVED	T. ZUMA		PROJECT ENGINEER

CLIENT



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Oxley Beach
Port Shepstone

PROJECT MANAGERS



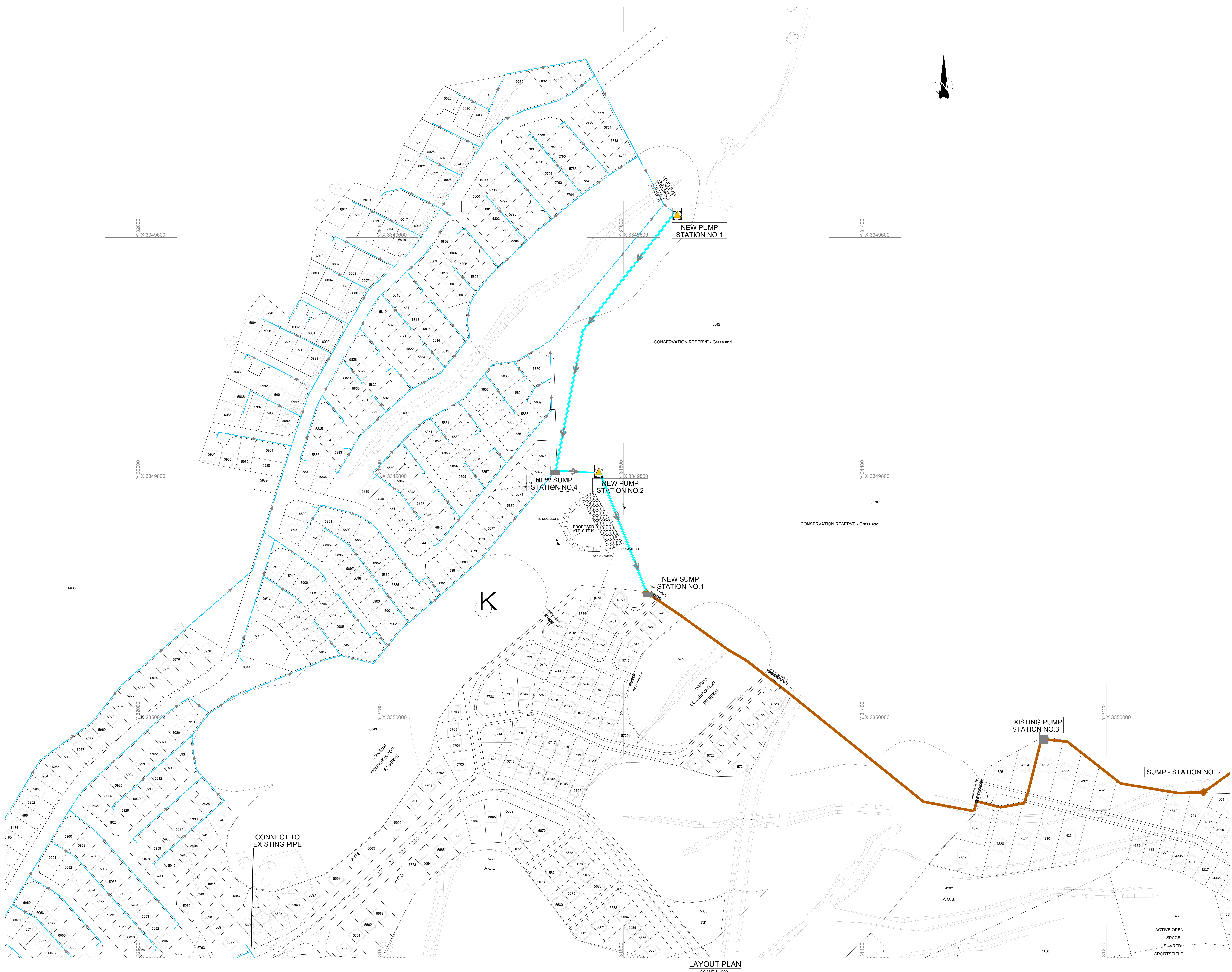
**MAFAHLENI ENGINEERS
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4240
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admin@mafahleni.co.za

1 Umfombe Place
Oxley Beach
Port Shepstone

PROJECT
**UMZINTO SLUM CLEARANCE:
FARM ISONTI LOW COST HOUSING
SANITATION SCHEME - PHASE 2**

DRAWING TITLE
**BULK SEWER:
OVERALL LAYOUT**

DRAWING No.	REVISION
UGU-2009-006-800-S-01	A



ISSUED FOR TENDER

LEGEND	DESCRIPTION
	Bulk Sewer line
	Bulk Sewer Pumping line
	Sewer Reticulation
	Existing Bulk Sewer line
	New Pump Station
	Existing Pump Station
	New Sump Station

DRAWING No.	DESCRIPTION
UGU-2009-006-800-S-01	OVERALL LAYOUT: SHEET 1 OF 5
UGU-2009-006-800-S-02	BULK SEWER: SHEET 2 OF 5
UGU-2009-006-800-S-03	BULK SEWER: SHEET 3 OF 5
UGU-2009-006-800-S-04	BULK SEWER: SHEET 4 OF 5
UGU-2009-006-800-S-05	BULK SEWER: SHEET 5 OF 5

DATE	REVISIONS	INIT.

	INITIAL	SIGNATURE	DESIGNATION
DESIGNED	M. M'LOPHE		DESIGN ENGINEER
DRAWN	Z. BIYELA		CAD TECHNICIAN
CHECKED	T. ZUMA		PROJECT ENGINEER
APPROVED	T. ZUMA		PROJECT ENGINEER

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PROJECT

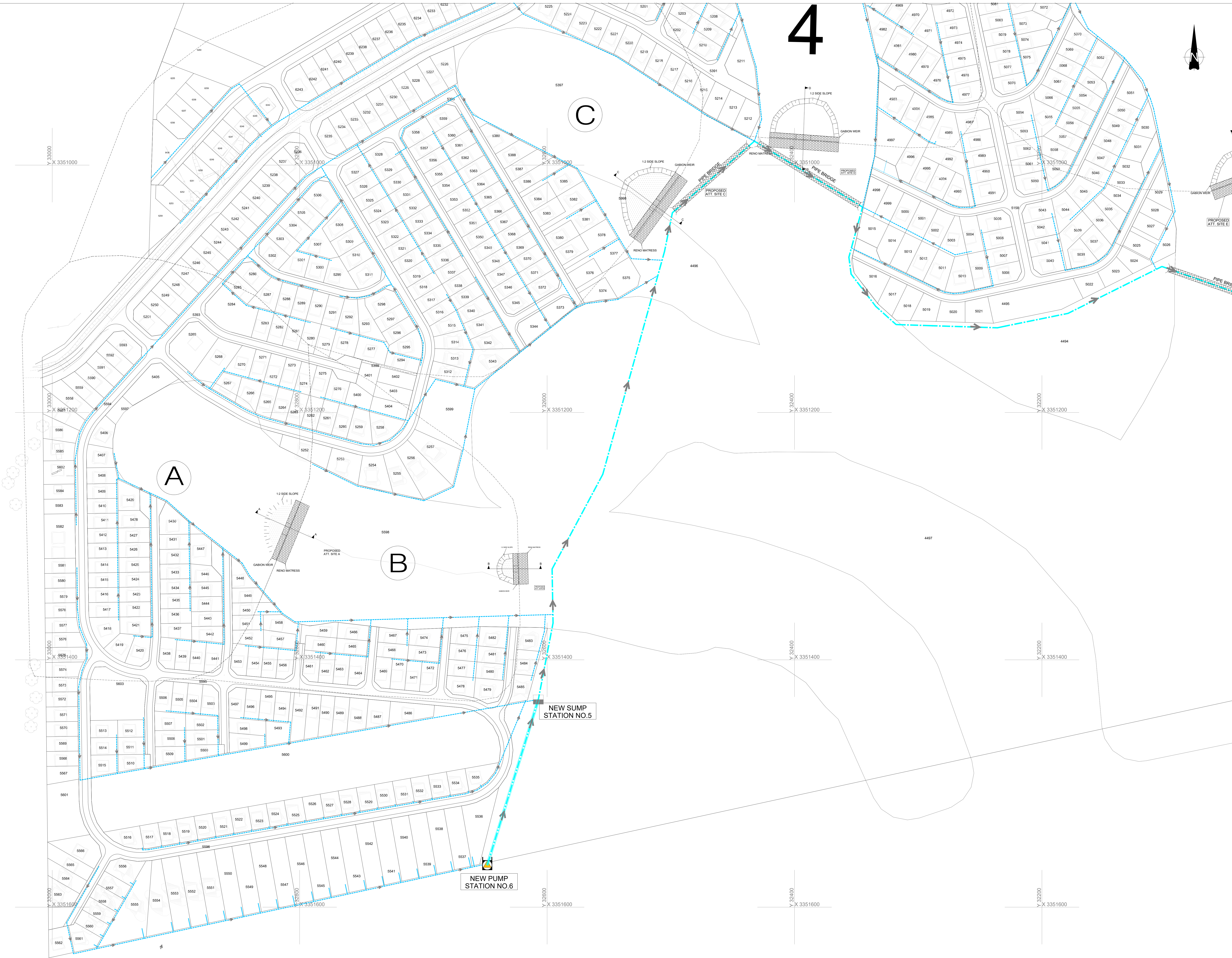
**UMZINTO SLUM CLEARANCE:
FARM ISONTI LOW COST HOUSING
SANITATION SCHEME - PHASE 2**

DRAWING TITLE

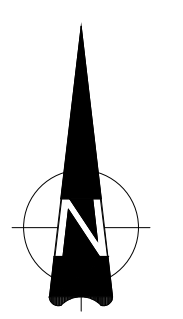
**BULK SEWER:
SHEET 2 OF 5**

DRAWING No.	REVISION
UGU-2009-006-800-S-02	A

S-01 SEWER DRAWINGS



4



ISSUED FOR TENDER	
LEGEND	DESCRIPTION
	Bulk Sewer line
	Bulk Sewer Pumping line
	Sewer Reticulation
	Existing Bulk Sewer line
	New Pump Station
	Existing Pump Station
	New Sump Station

DRAWING No.	DESCRIPTION
UGU-2009-006-800-S-01 UGU-2009-006-800-S-02 UGU-2009-006-800-S-03 UGU-2009-006-800-S-04 UGU-2009-006-800-S-05	OVERALL LAYOUT: SHEET 1 OF 5 BULK SEWER SHEET 2 OF 5 BULK SEWER SHEET 3 OF 5 BULK SEWER SHEET 4 OF 5 BULK SEWER SHEET 5 OF 5

DATE	REVISIONS	INIT.

	INITIAL	SIGNATURE	DESIGNATION
DESIGNED	M. MHLOPHE		DESIGN ENGINEER
DRAWN	Z. BYELA		CAD TECHNICIAN
CHECKED	T. ZUMA		PROJECT ENGINEER
APPROVED	T. ZUMA		PROJECT ENGINEER

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admin@mafahleni.co.za

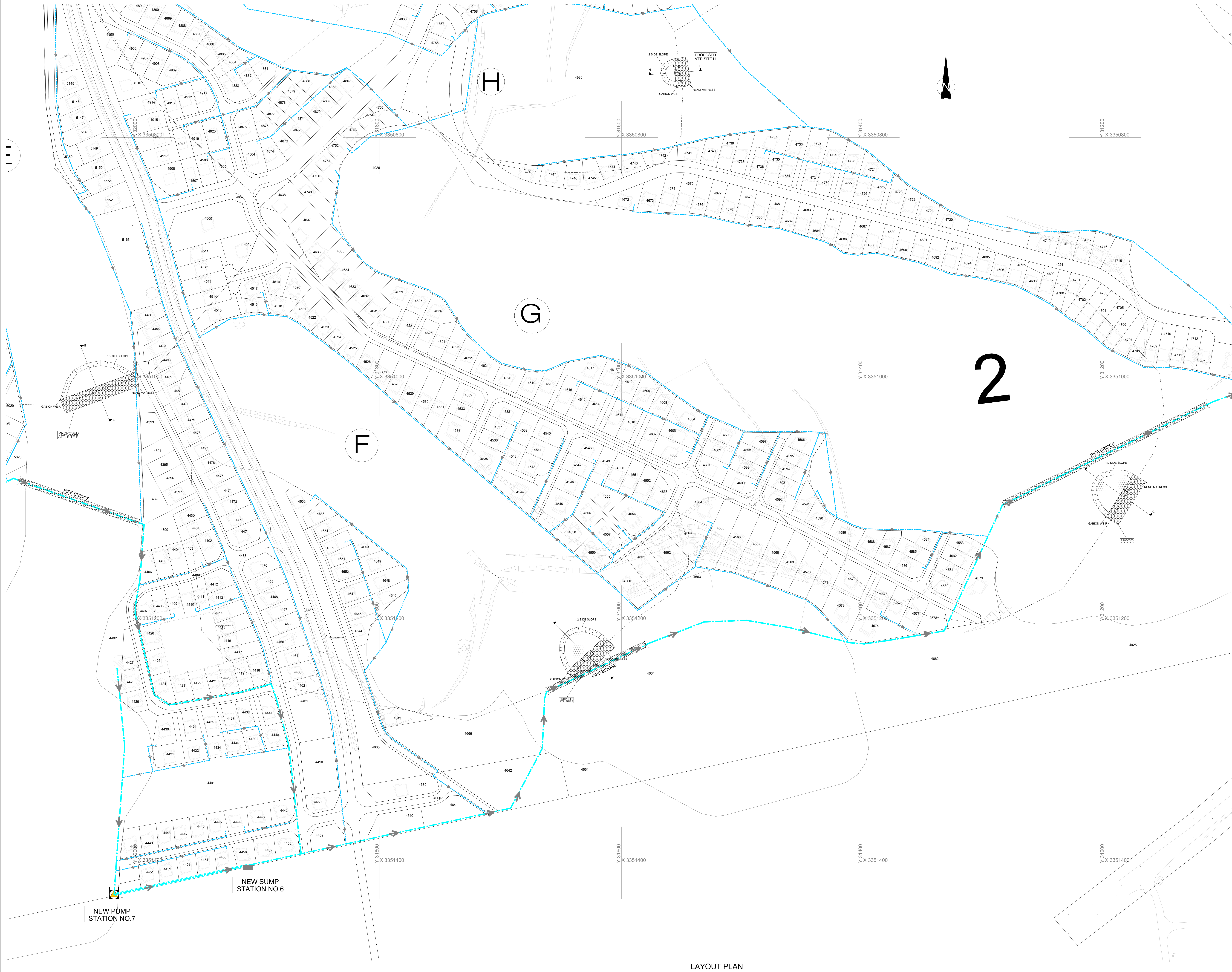
PROJECT
**UMZINTO SLUM CLEARANCE:
FARM ISONTI LOW COST HOUSING
SANITATION SCHEME - PHASE 2**

DRAWING TITLE
**BULK SEWER:
SHEET 3 OF 5**

DRAWING No.	REVISION
UGU-2009-006-800-S-03	A

S-01	SEWER DRAWINGS
------	----------------

LAYOUT PLAN
SCALE 1:1000



LEGEND

Bulk Sewer line

Bulk Sewer Pumping line

Sewer Reticulation

Existing Bulk Sewer line

New Pump Station

Existing Pump Station

New Sump Station

DRAWING No.

DESCRIPTION

UGU-2009-006-800-S-01

UGU-2009-006-800-S-02

UGU-2009-006-800-S-03

UGU-2009-006-800-S-04

UGU-2009-006-800-S-05

OVERALL LAYOUT: SHEET 1 OF 5

BULK SEWER: SHEET 2 OF 5

BULK SEWER: SHEET 3 OF 5

BULK SEWER: SHEET 4 OF 5

BULK SEWER: SHEET 5 OF 5

DATE

REVISIONS

INIT.

DESIGNED

M. MHLOPHE

DESIGN ENGINEER

DRAWN

Z. BYELA

CAD TECHNICIAN

CHECKED

T. ZUMA

PROJECT ENGINEER

APPROVED

T. ZUMA

PROJECT ENGINEER

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MAFAHLENI ENGINEERS

PROFESSIONAL ENGINEERS

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AND PROJECT MANAGERS

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admin@mafahleni.co.za

DRAWING TITLE

UMZINTO SLUM CLEARANCE:
FARM ISONTI LOW COST HOUSING
SANITATION SCHEME - PHASE 2

DRAWING No.

UGU-2009-006-800-S-04

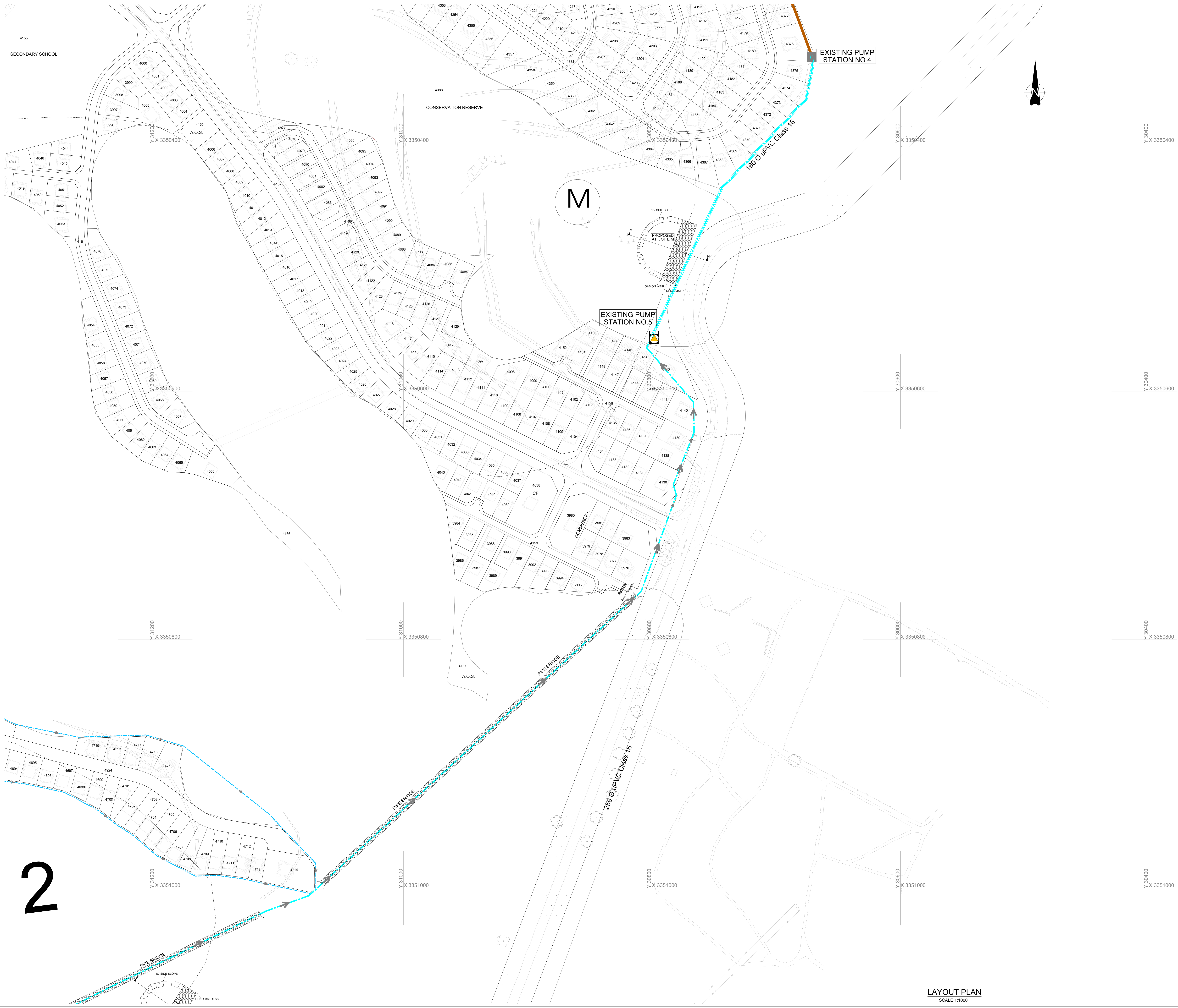
REVISION

A

S-01

SEWER DRAWINGS

LAYOUT PLAN
SCALE 1:1000



LAYOUT PLAN
SCALE 1:1000

ISSUED FOR TENDER

LEGEND	DESCRIPTION
	Bulk Sewer line
	Bulk Sewer Pumping line
	Sewer Reticulation
	Existing Bulk Sewer line
	New Pump Station
	Existing Pump Station
	New Sump Station

DRAWING No.	DESCRIPTION
UGU-2009-006-800-S-01 UGU-2009-006-800-S-02 UGU-2009-006-800-S-03 UGU-2009-006-800-S-04 UGU-2009-006-800-S-05	OVERALL LAYOUT: SHEET 1 OF 5 BULK SEWER: SHEET 2 OF 5 BULK SEWER: SHEET 3 OF 5 BULK SEWER: SHEET 4 OF 5 BULK SEWER: SHEET 5 OF 5

DATE	REVISIONS	INIT.

	INITIAL	SIGNATURE	DESIGNATION
DESIGNED	M. MHLOPHE		DESIGN ENGINEER
DRAWN	Z. BYELA		CAD TECHNICIAN
CHECKED	T. ZUMA		PROJECT ENGINEER
APPROVED	T. ZUMA		PROJECT ENGINEER

CLIENT

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PROJECT

UMZINTO SLUM CLEARANCE:
FARM ISONTI LOW COST HOUSING
SANITATION SCHEME - PHASE 2

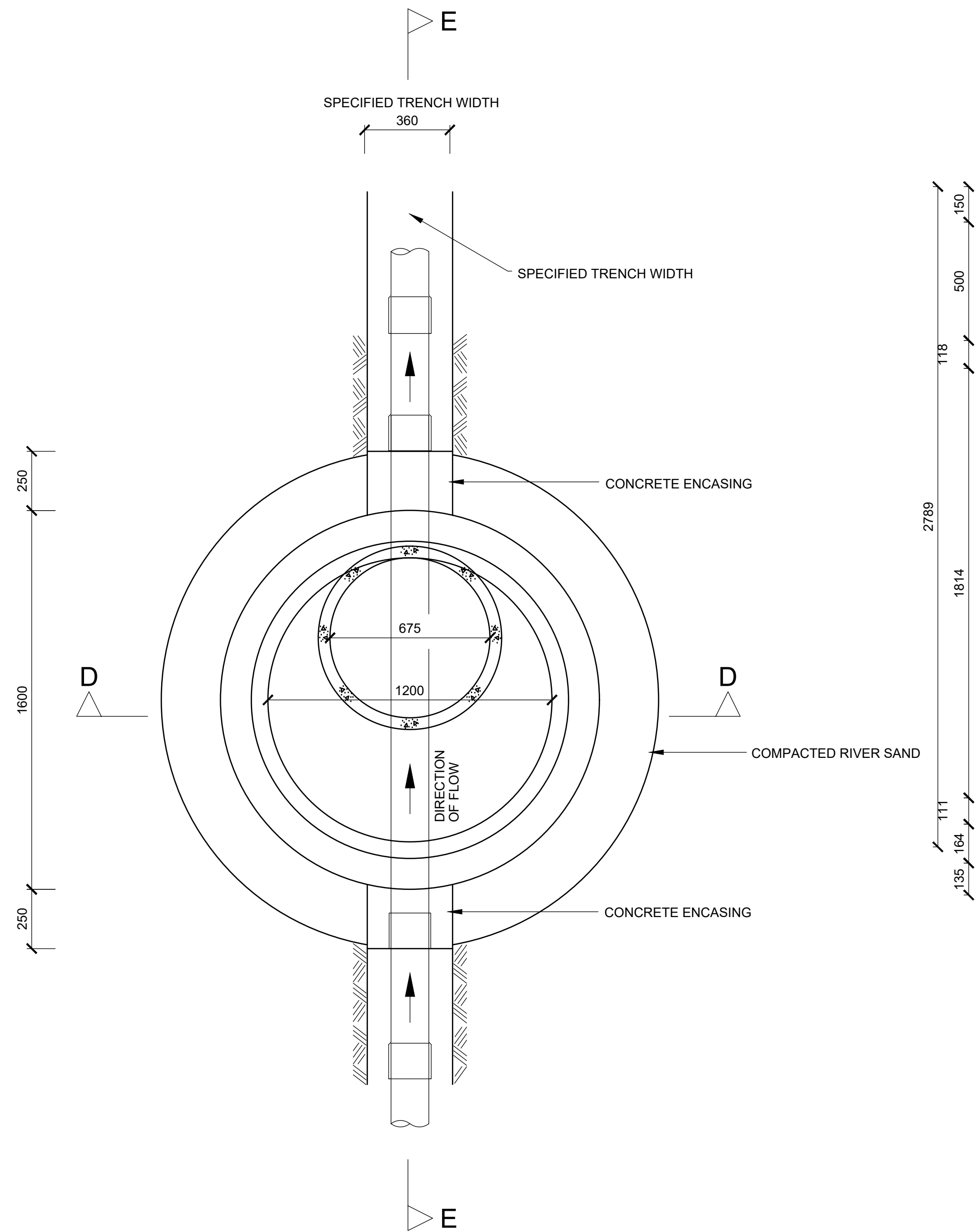
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BULK SEWER: SHEET 5 OF 5	A

DRAWING No.	REVISION
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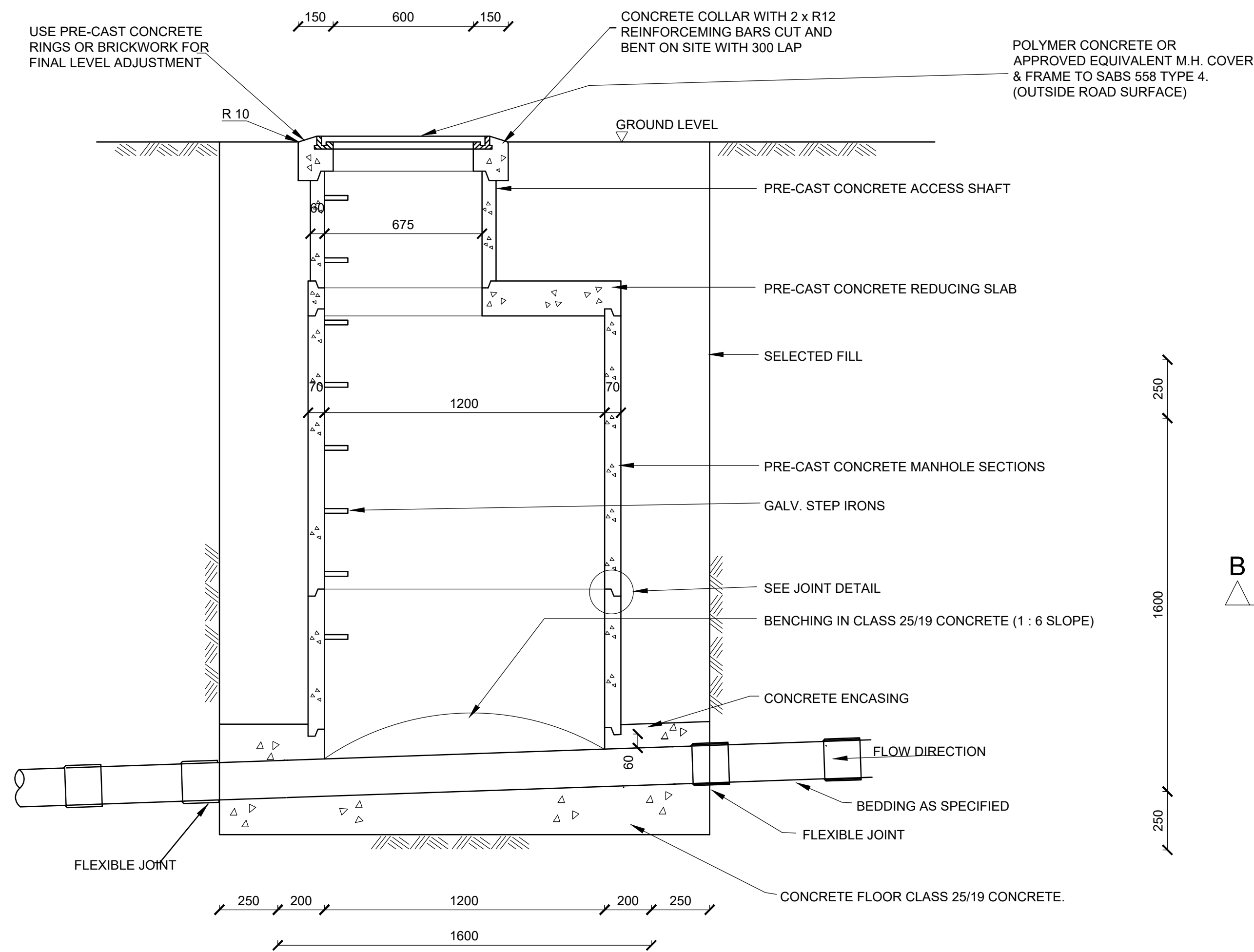
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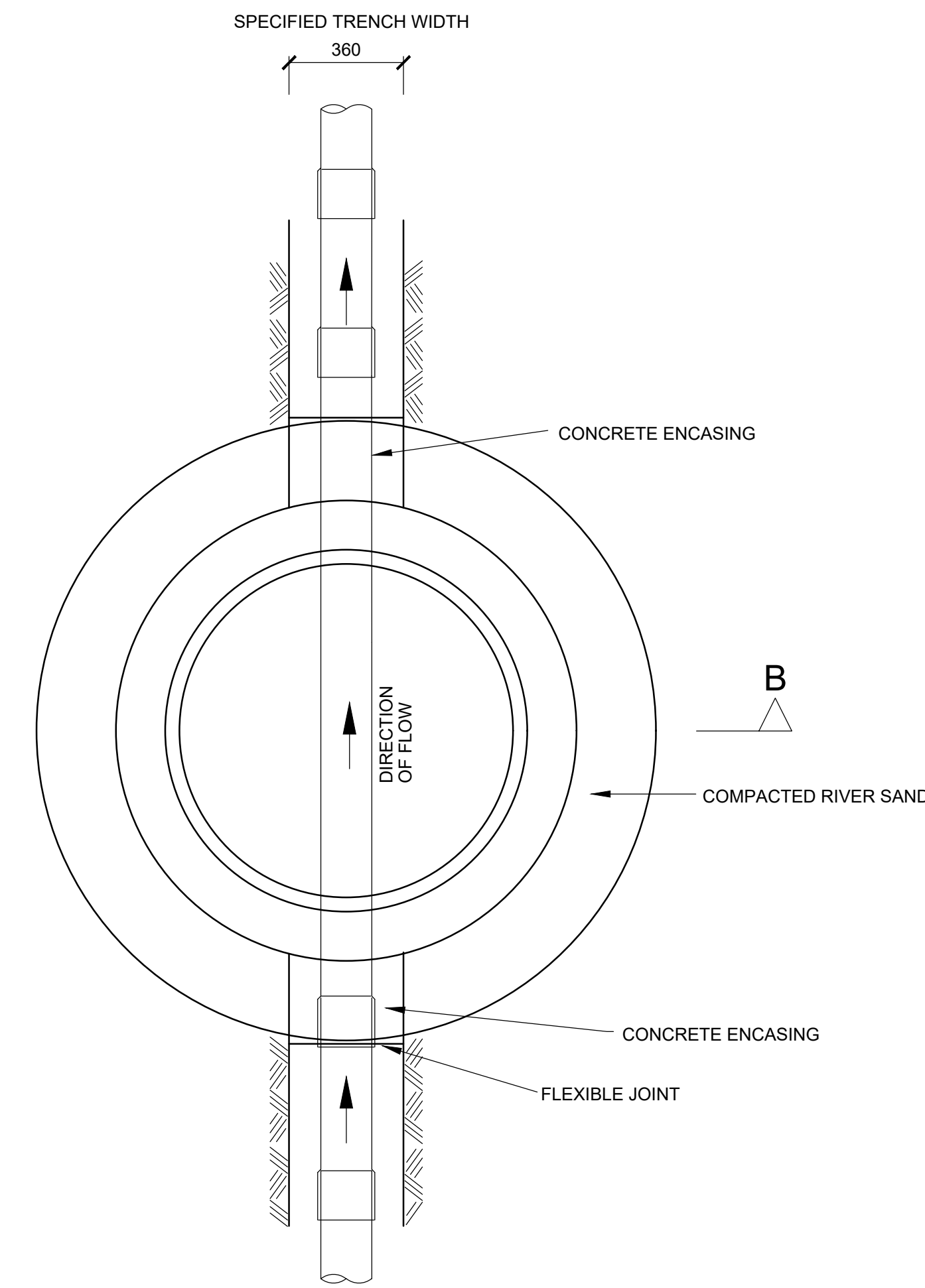
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UGU-2009-006-800-S-03			
UGU-2009-006-800-S-04			
UGU-2009-006-800-S-05			
UGU-2009-006-800-S-07			
DATE	REVISIONS	INITIAL	
INITIAL		SIGNATURE	DESIGNATION
DESIGNED	M. MHLIPE		DESIGN ENGINEER
DRAWN	Z. BIVELA		CAD TECHNICIAN
CHECKED	T. ZUMA		PROJECT ENGINEER
APPROVED	T. ZUMA		PROJECT ENGINEER
CLIENT			
 UGU DISTRICT MUNICIPALITY P O Box 33 Port Shepstone 4240 Tel: 033 558 5941 Fax: 033 682 4598 95 Marine Drive Cato Manor Port Shepstone			
PROJECT MANAGERS			
MAFAHLENI ENGINEERS AND PROJECT MANAGERS P O Box 62075 Port Shepstone 4240 Tel: 033 684 0028 Fax: 033 684 5078		11 Union Road Oxle Beach Port Shepstone admin@mafahleni.co.za	
PROJECT			
UMZINTO SLUM CLEARANCE: FARM ISONTI LOW COST HOUSING SANITATION SCHEME - PHASE 2			
DRAWING TITLE			
BULK SEWER: SEWER DETAILS SHEET 1 OF 2			
DRAWING No.		REVISION	
UGU-2009-006-800-S-06		A	



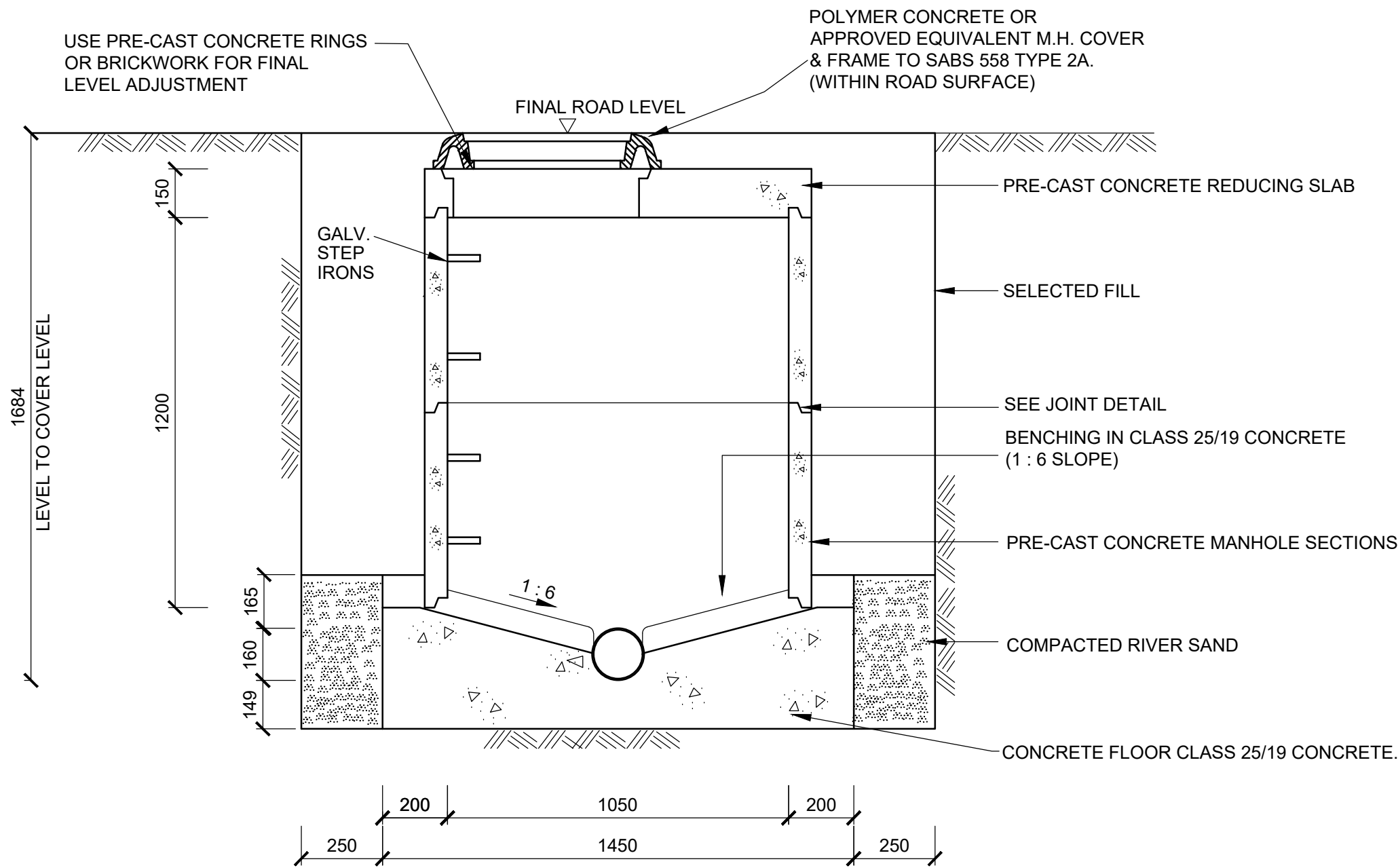
PLAN
MANHOLE FOR D > 1200
SCALE 1:20



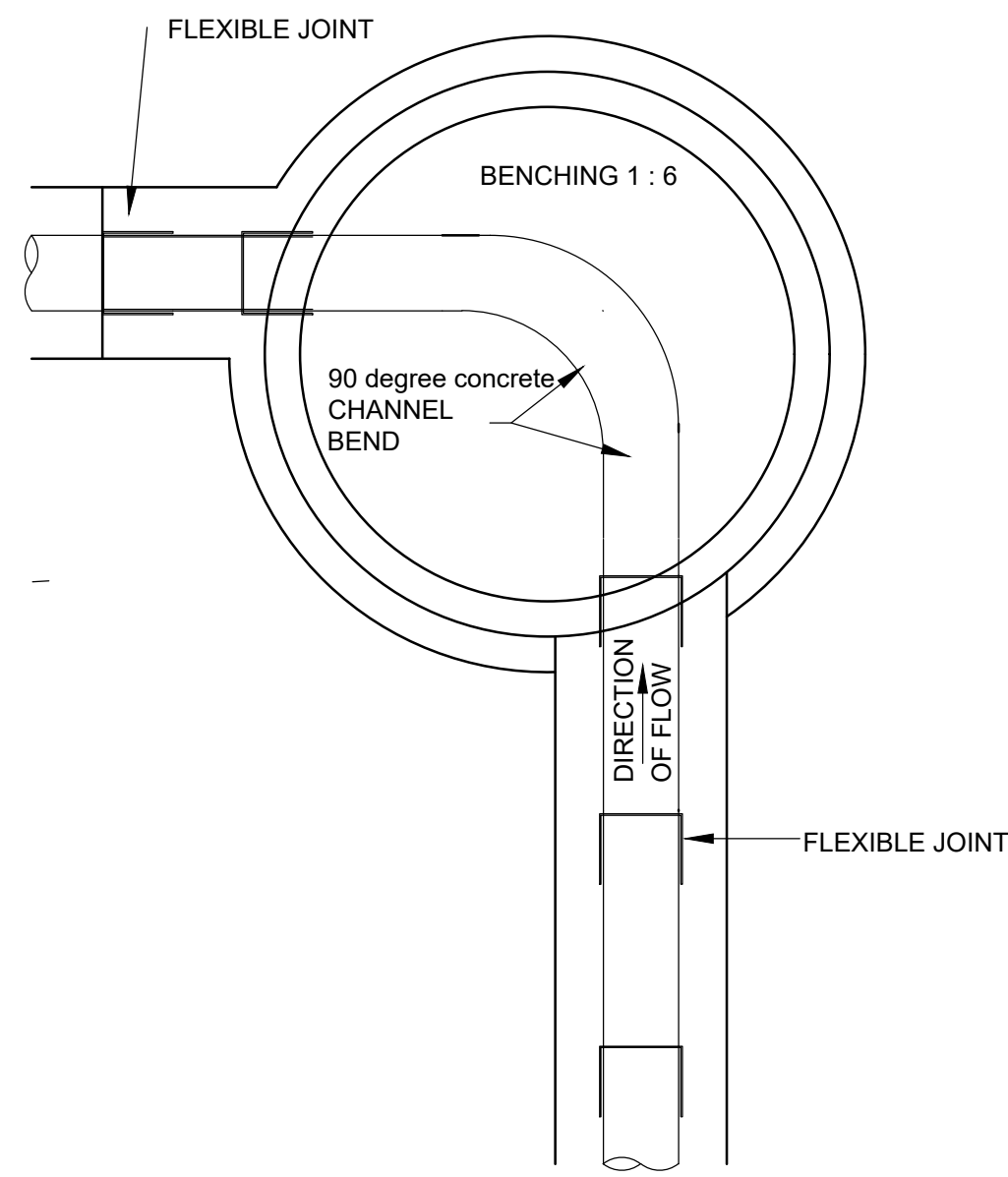
SECTION E-E
MANHOLE FOR D > 2150
SCALE 1:20



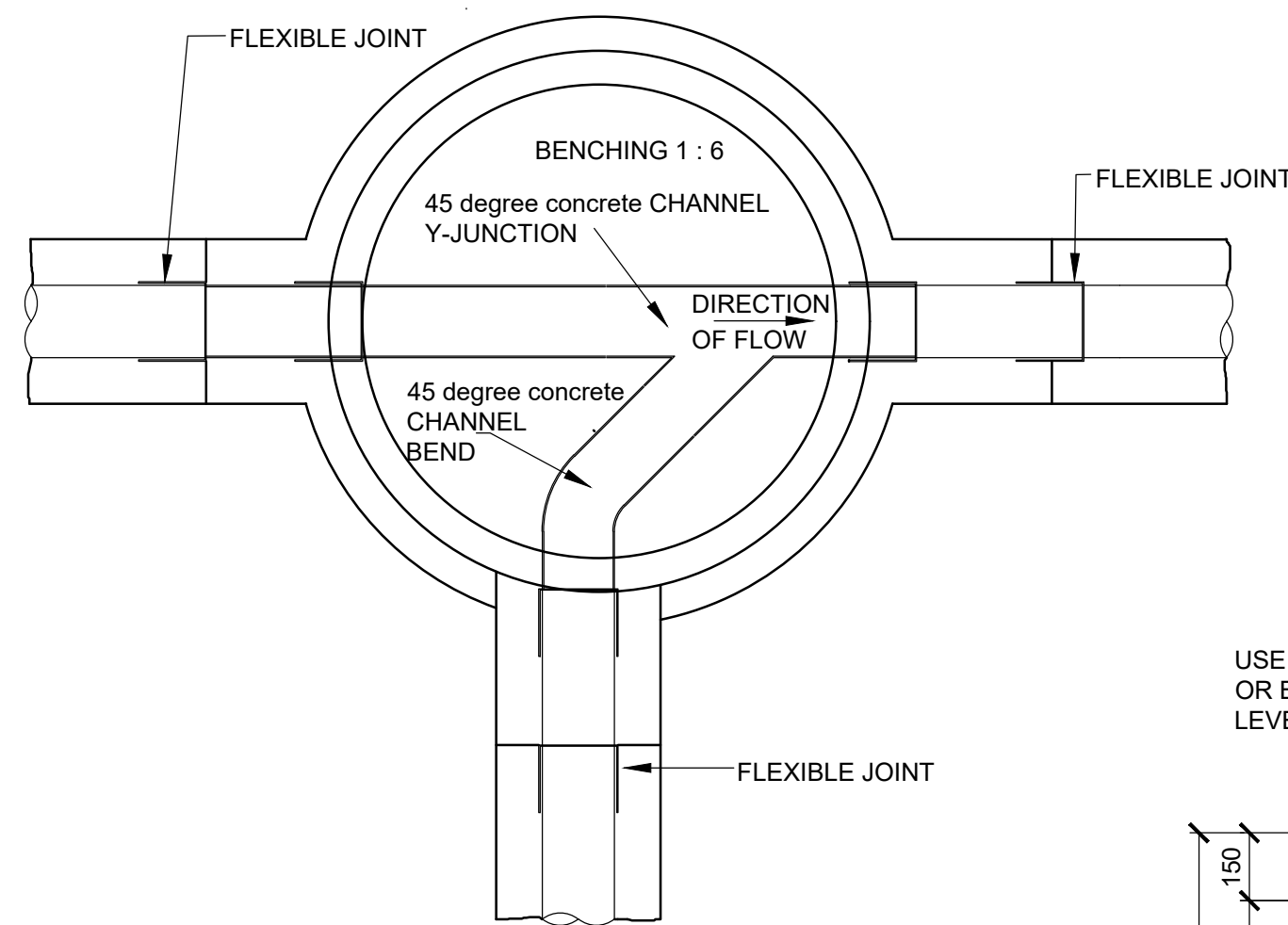
PLAN
MANHOLE D < 1200
SCALE 1:20



SECTION D-D
MANHOLE FOR 1200 < D < 2150
SCALE 1:20

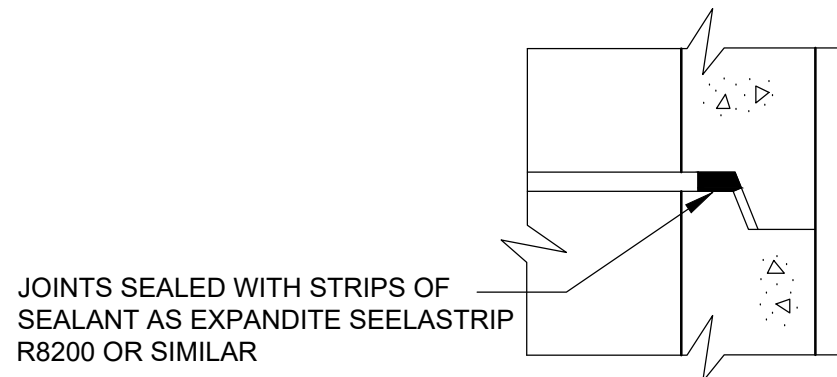


PLAN BEND

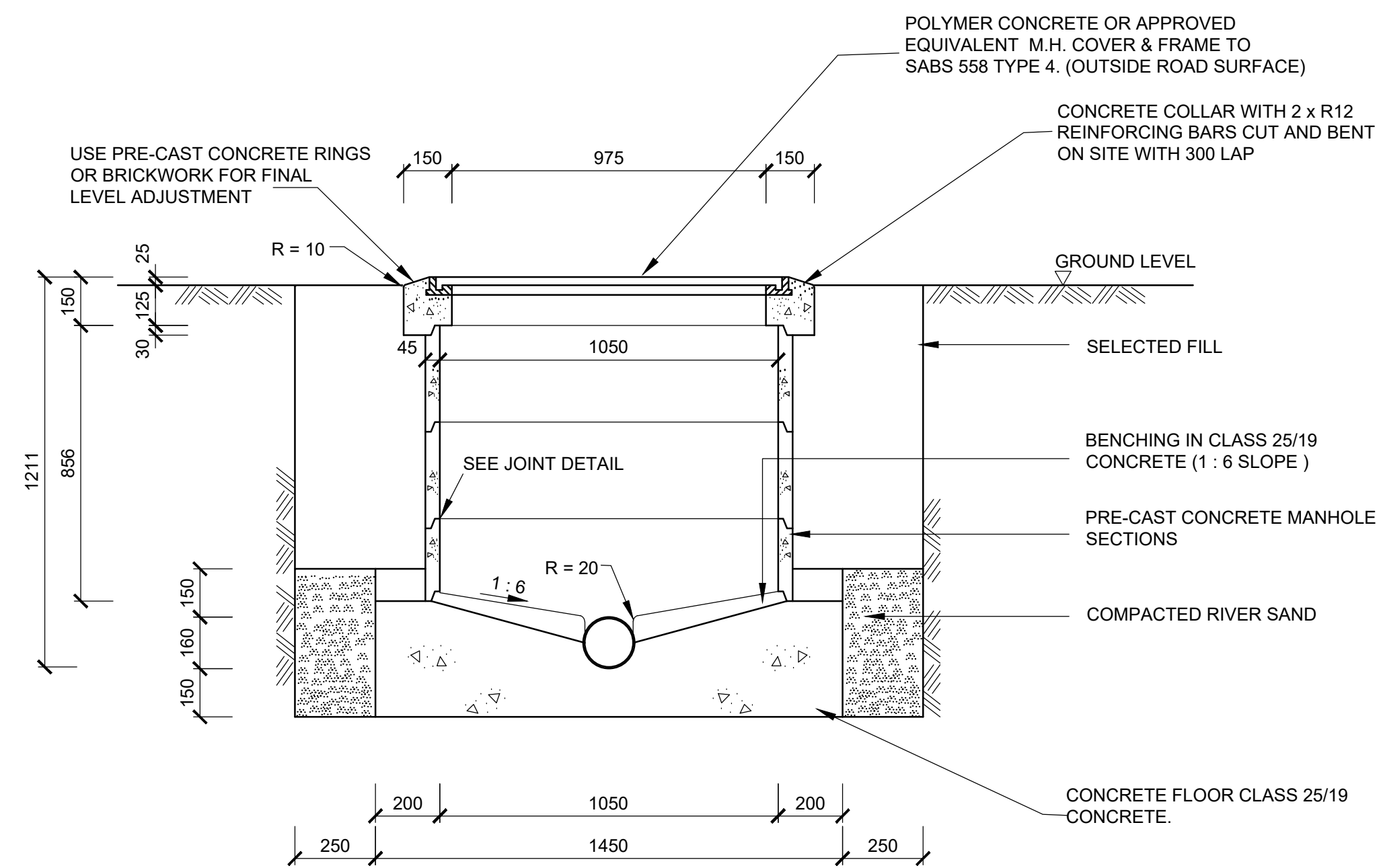


PLAN JUNCTION

TYPICAL BENCHING DETAILS
SCALE 1:20



JOINT DETAIL
SCALE 1:5



SECTION B - B
MANHOLE D < 1200
SCALE 1:20

ISSUED FOR TENDER

DRAWING No.	DESCRIPTION
UGU-2009-006-800-S-01	OVERALL LAYOUT: SHEET 1 OF 5
UGU-2009-006-800-S-02	BULK SEWER: SHEET 2 OF 5
UGU-2009-006-800-S-03	BULK SEWER: SHEET 3 OF 5
UGU-2009-006-800-S-04	BULK SEWER: SHEET 4 OF 5
UGU-2009-006-800-S-05	BULK SEWER: SHEET 5 OF 5
UGU-2009-006-800-S-06	SEWER DETAILS: SHEET 1 OF 2
UGU-2009-006-800-S-07	SEWER DETAILS: SHEET 2 OF 2

DATE	REVISIONS	INIT.

	INITIAL	SIGNATURE	DESIGNATION
DESIGNED	M. MHELOPIE		DESIGN ENGINEER
DRAWN	Z. SIYELA		CAD TECHNICIAN
CHECKED	T. ZUMA		PROJECT ENGINEER
APPROVED	T. ZUMA		PROJECT ENGINEER

CLIENT

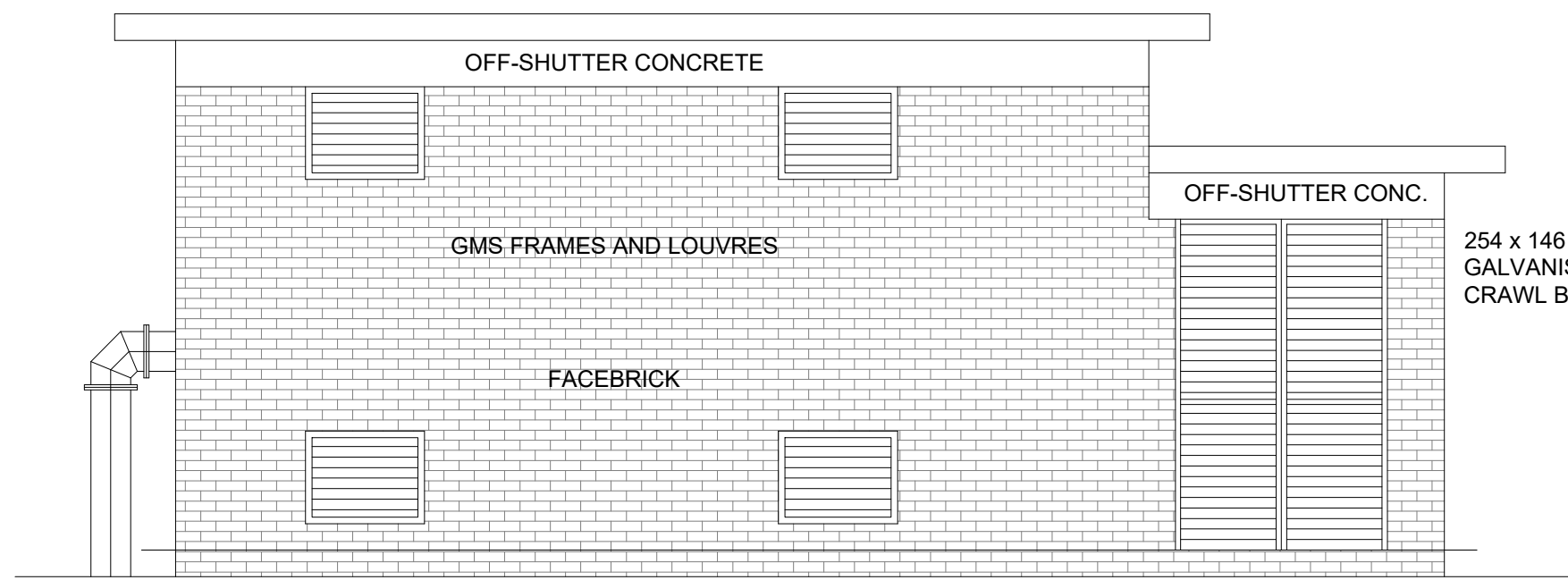
UGU DISTRICT MUNICIPALITY
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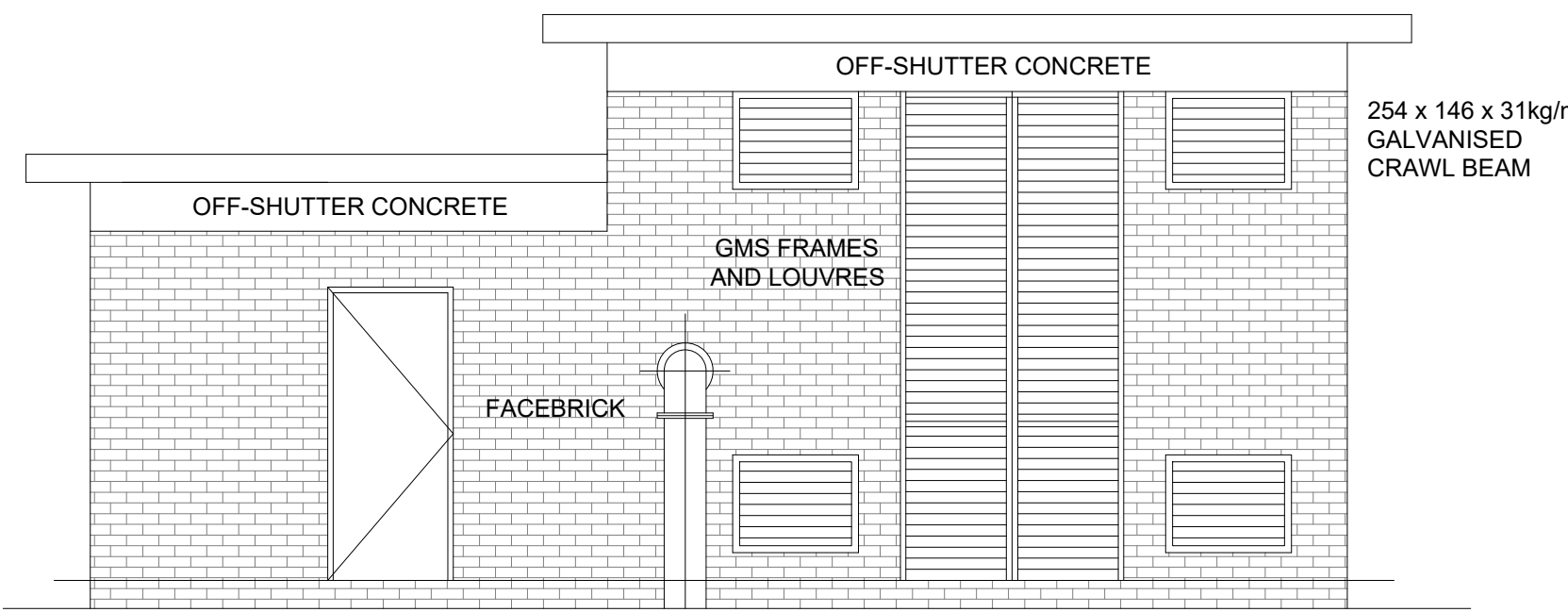
PROJECT
UMZINTO SLUM CLEARANCE:
FARM ISONTI LOW COST HOUSING
SANITATION SCHEME - PHASE 2

DRAWING TITLE
BULK SEWER:
SEWER DETAILS SHEET 2 OF 2

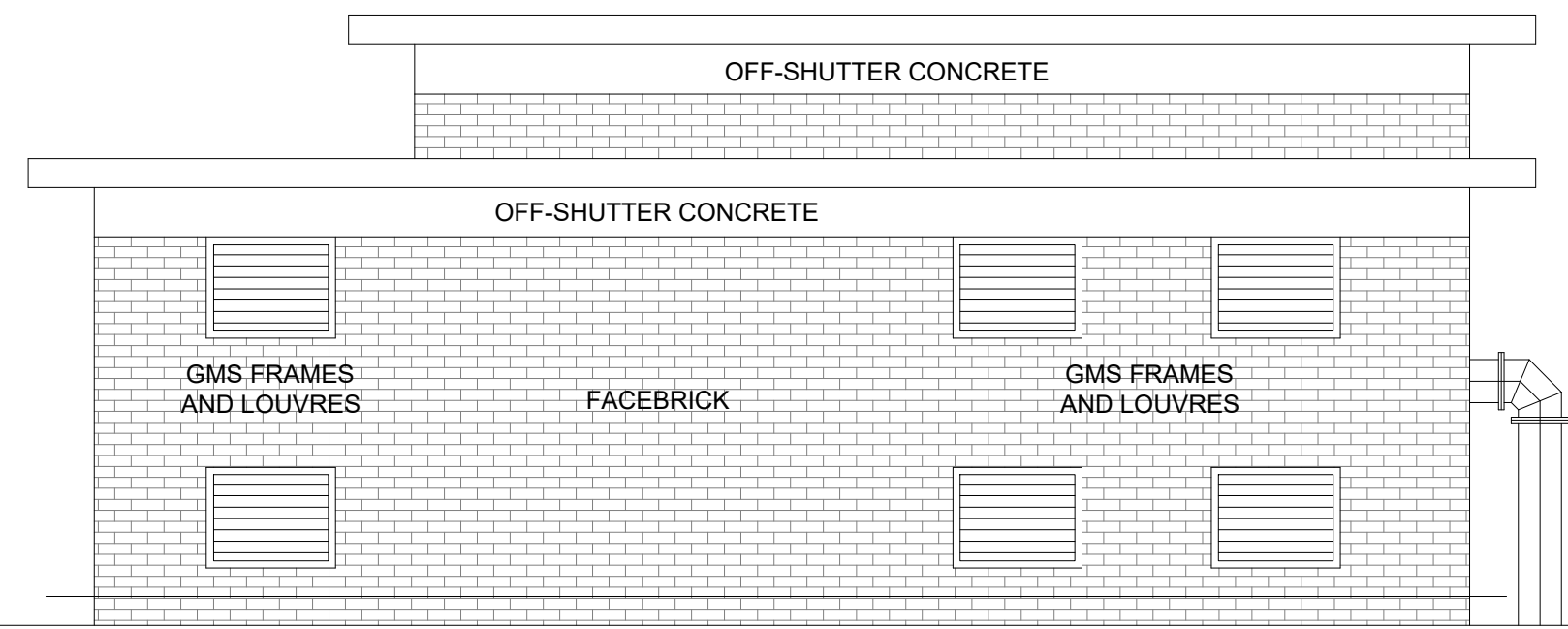
DRAWING No.	REVISION
UGU-2009-006-800-S-07	A



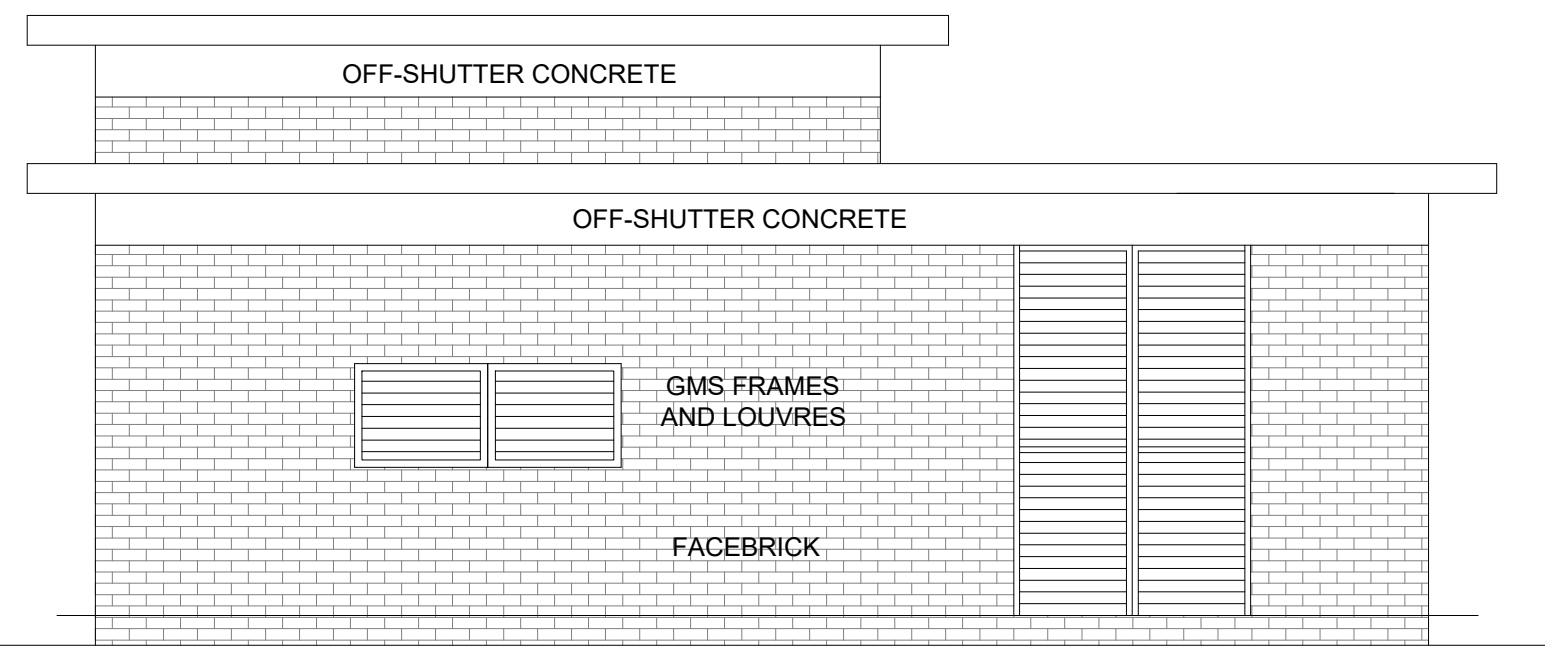
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SCALE 1:50



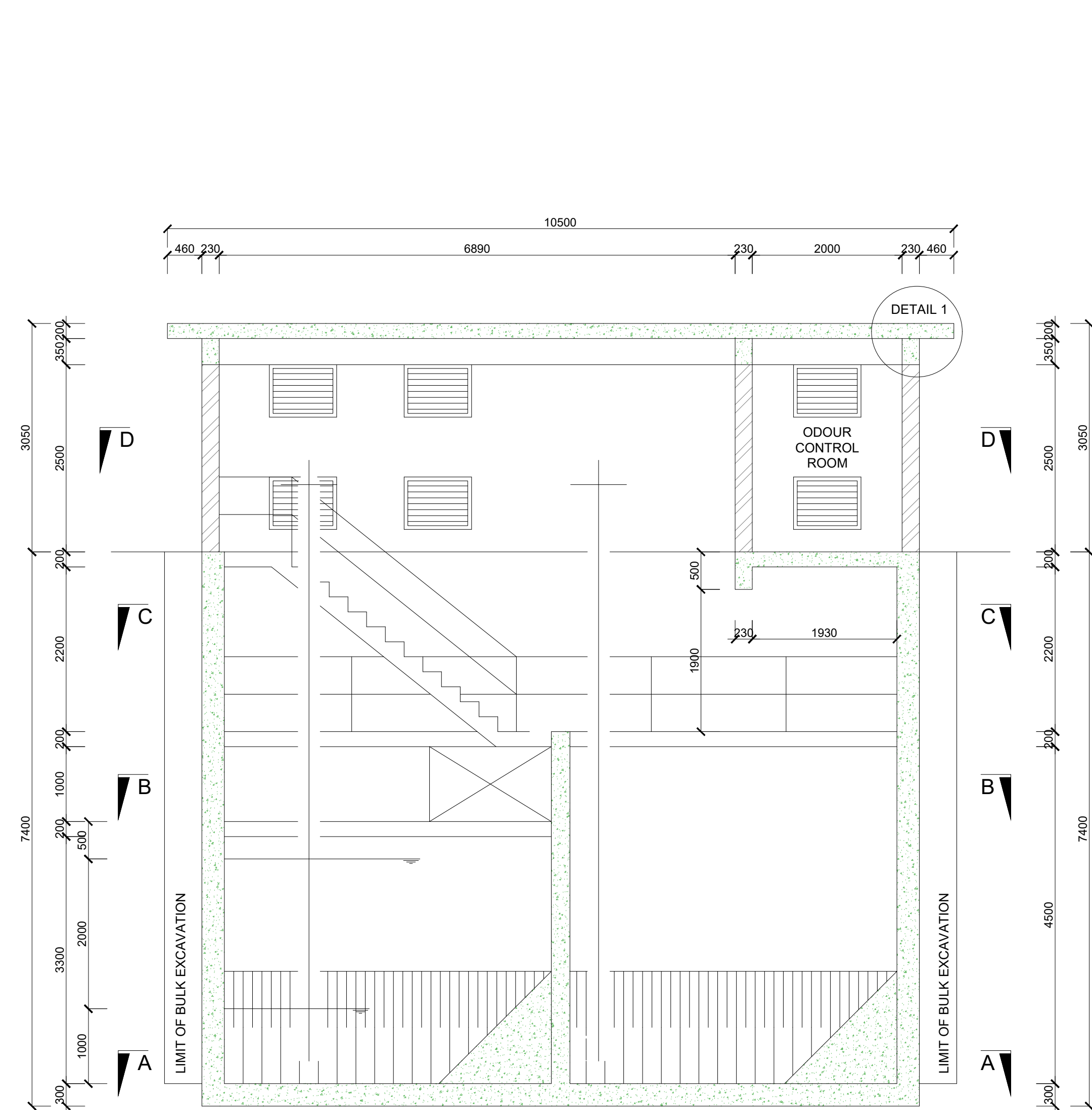
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SCALE 1:50



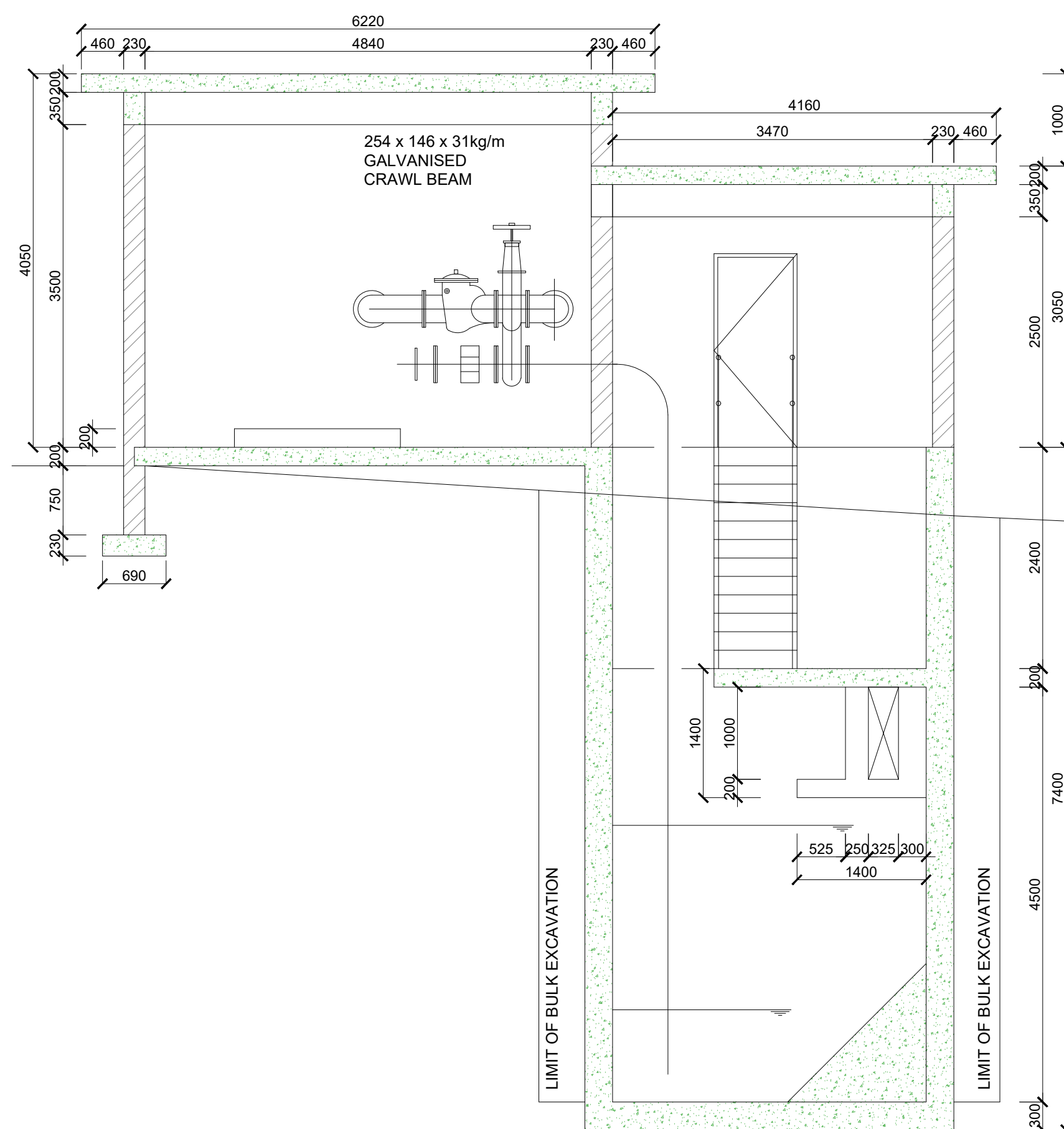
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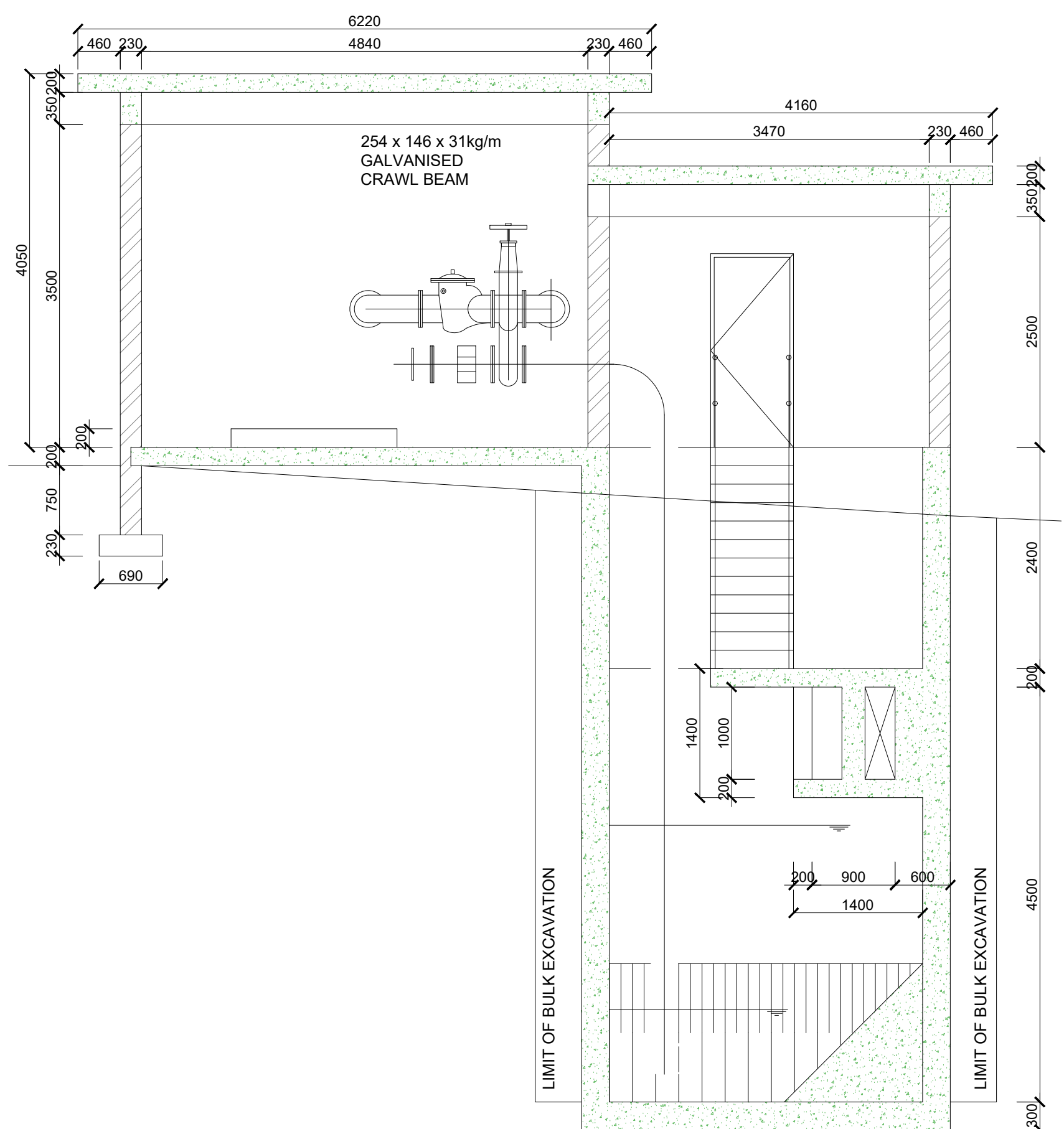
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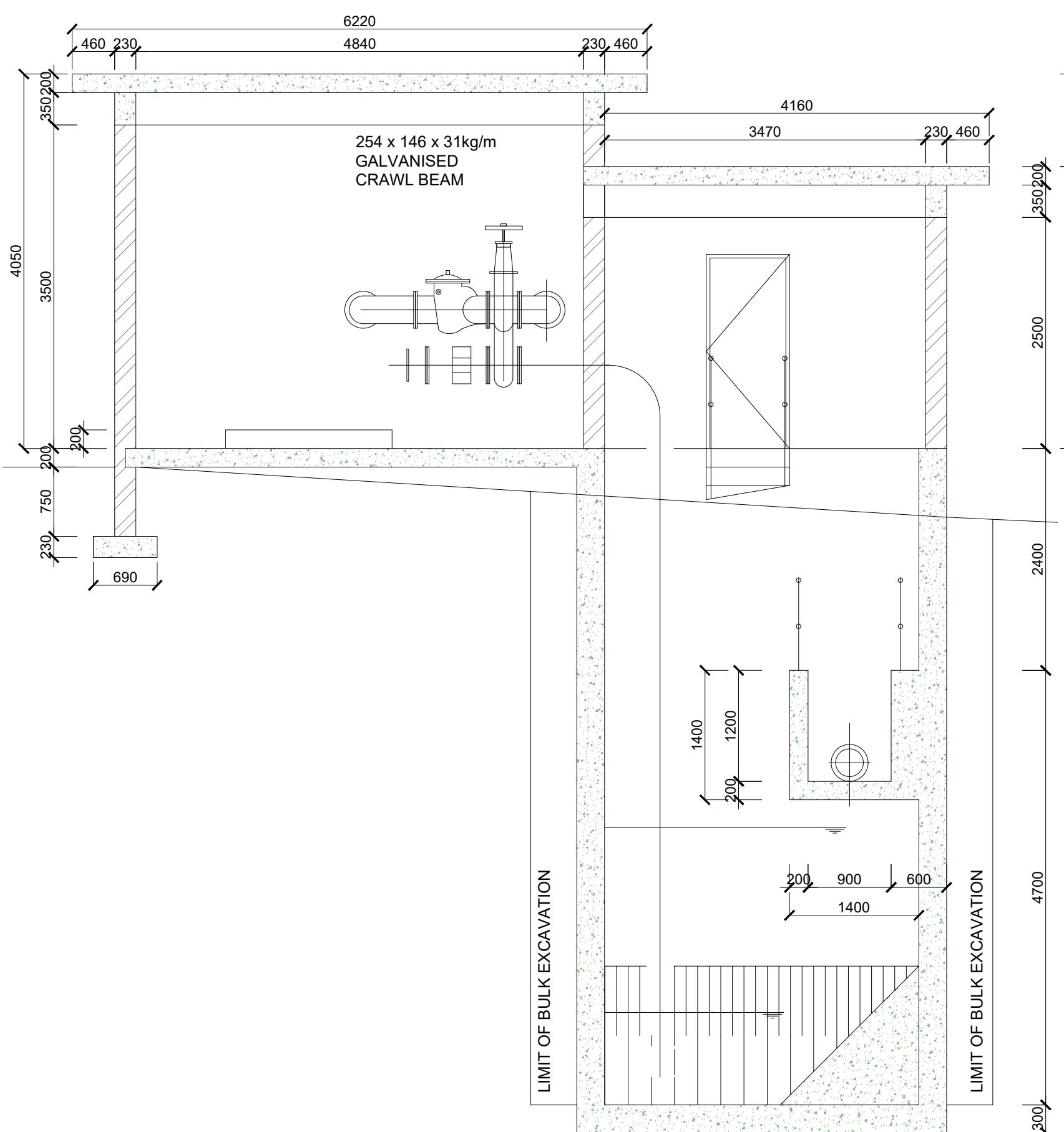
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SCALE 1:50



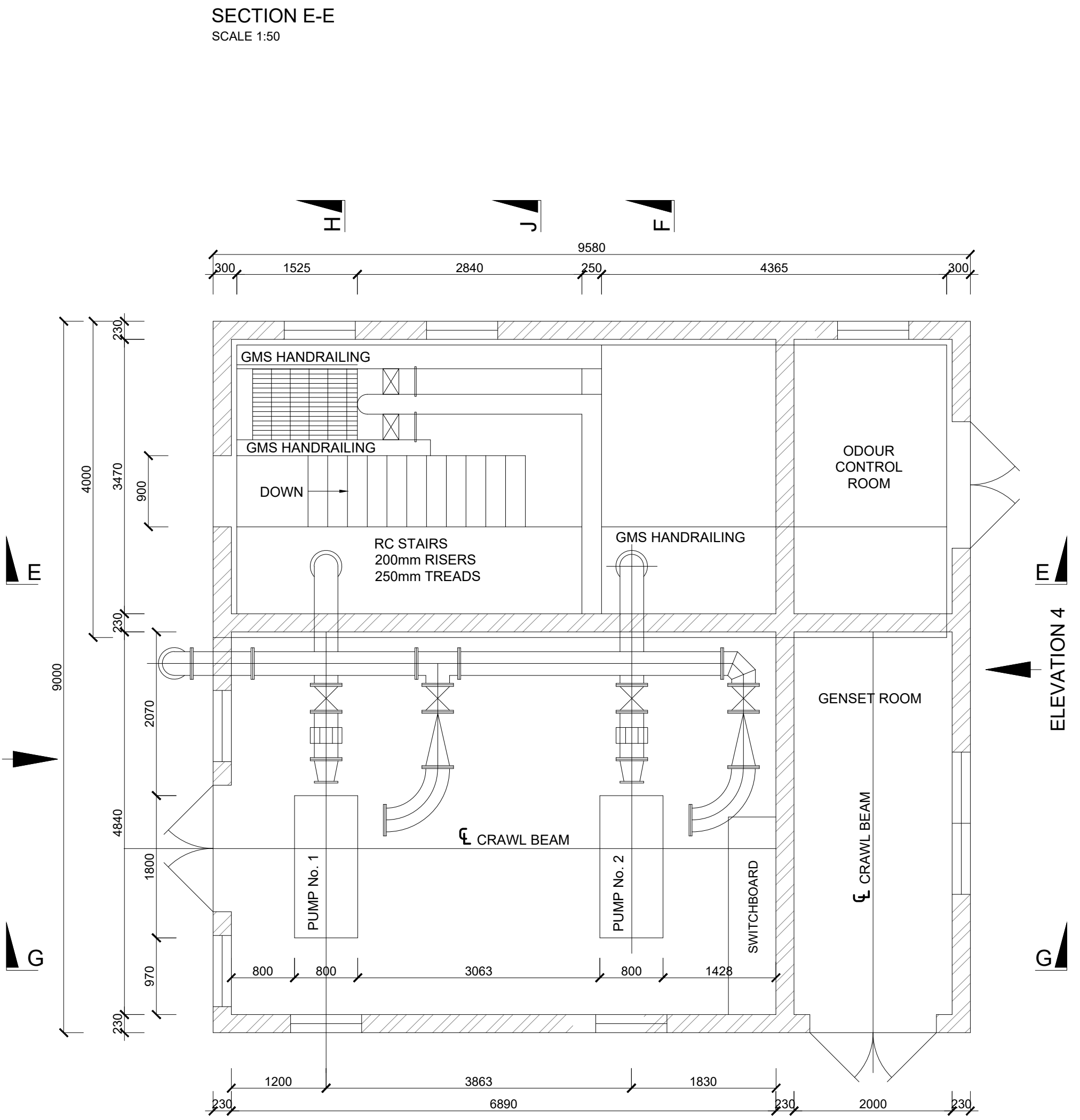
SECTION F-F
SCALE 1:50



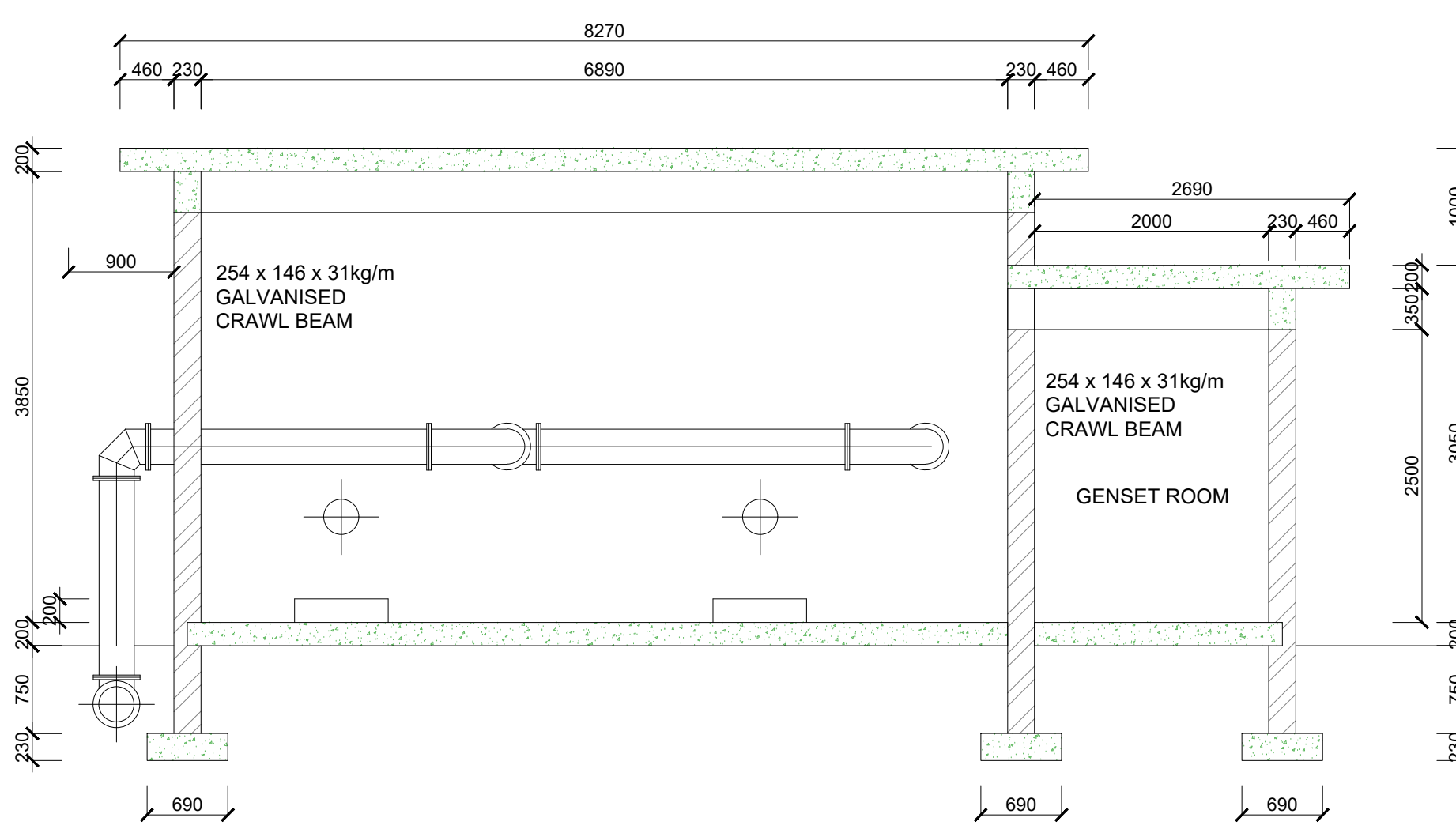
SECTION J-J
SCALE 1:50



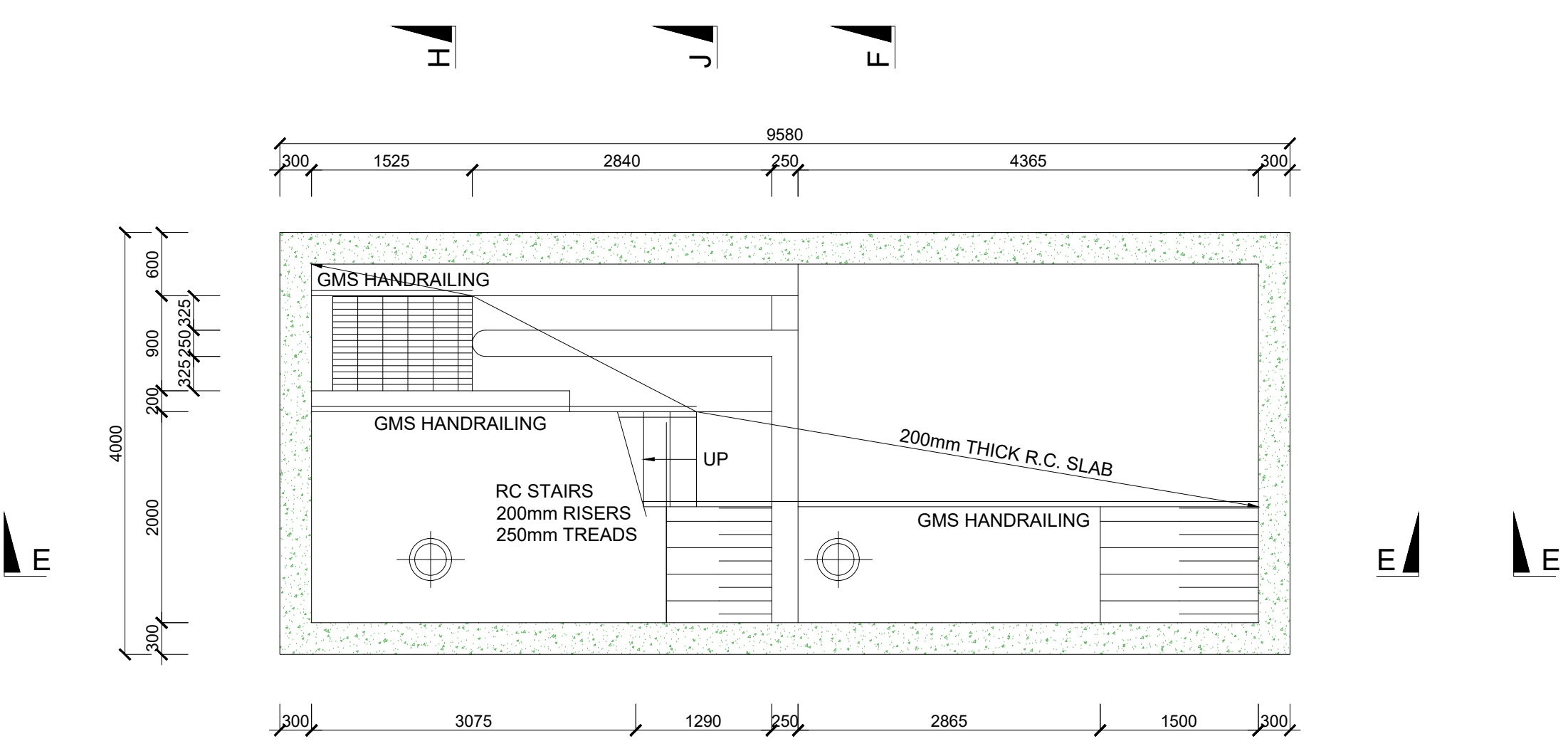
SECTION H-H
SCALE 1:50



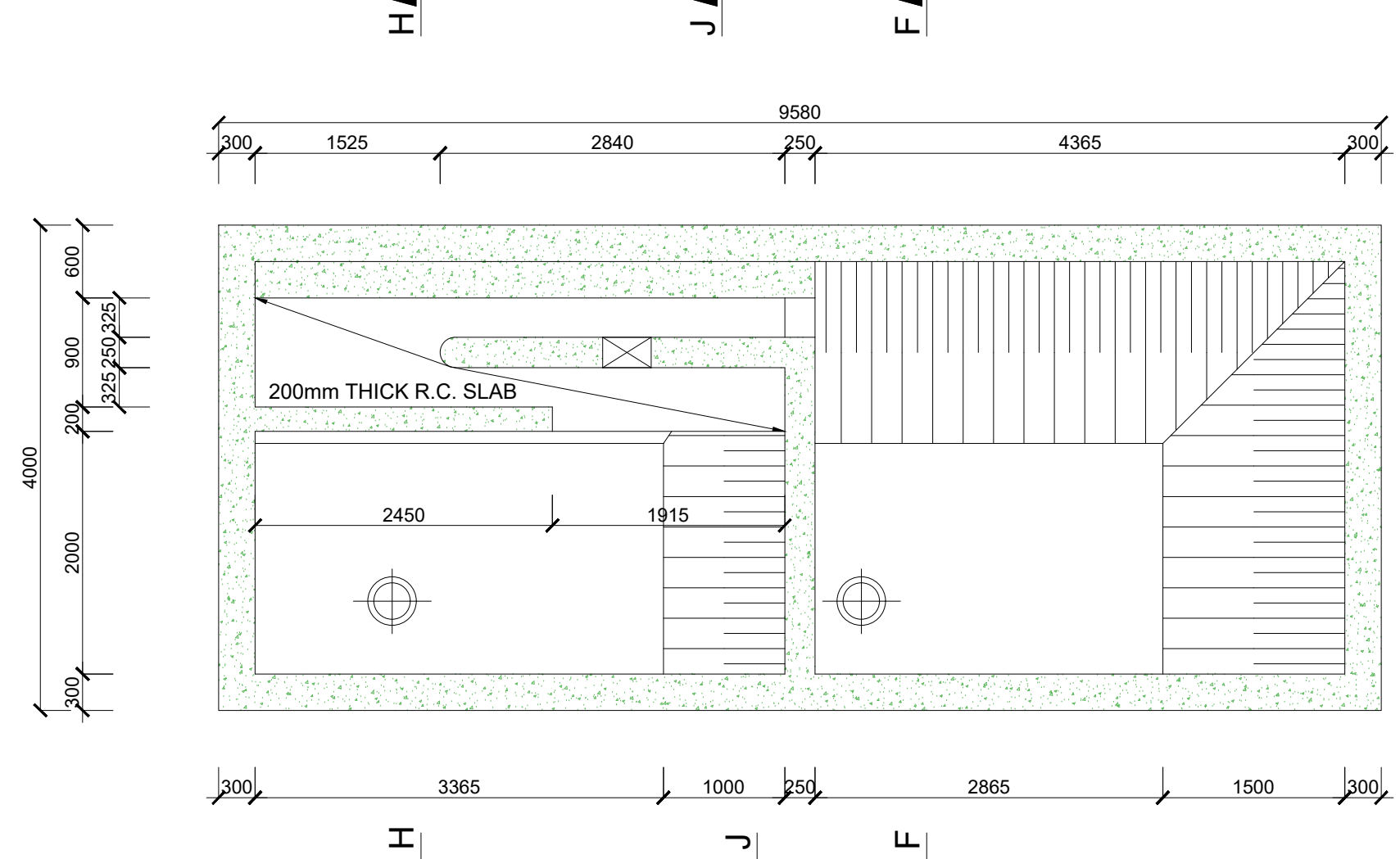
SECTIONAL PLAN D-D
SCALE 1:50



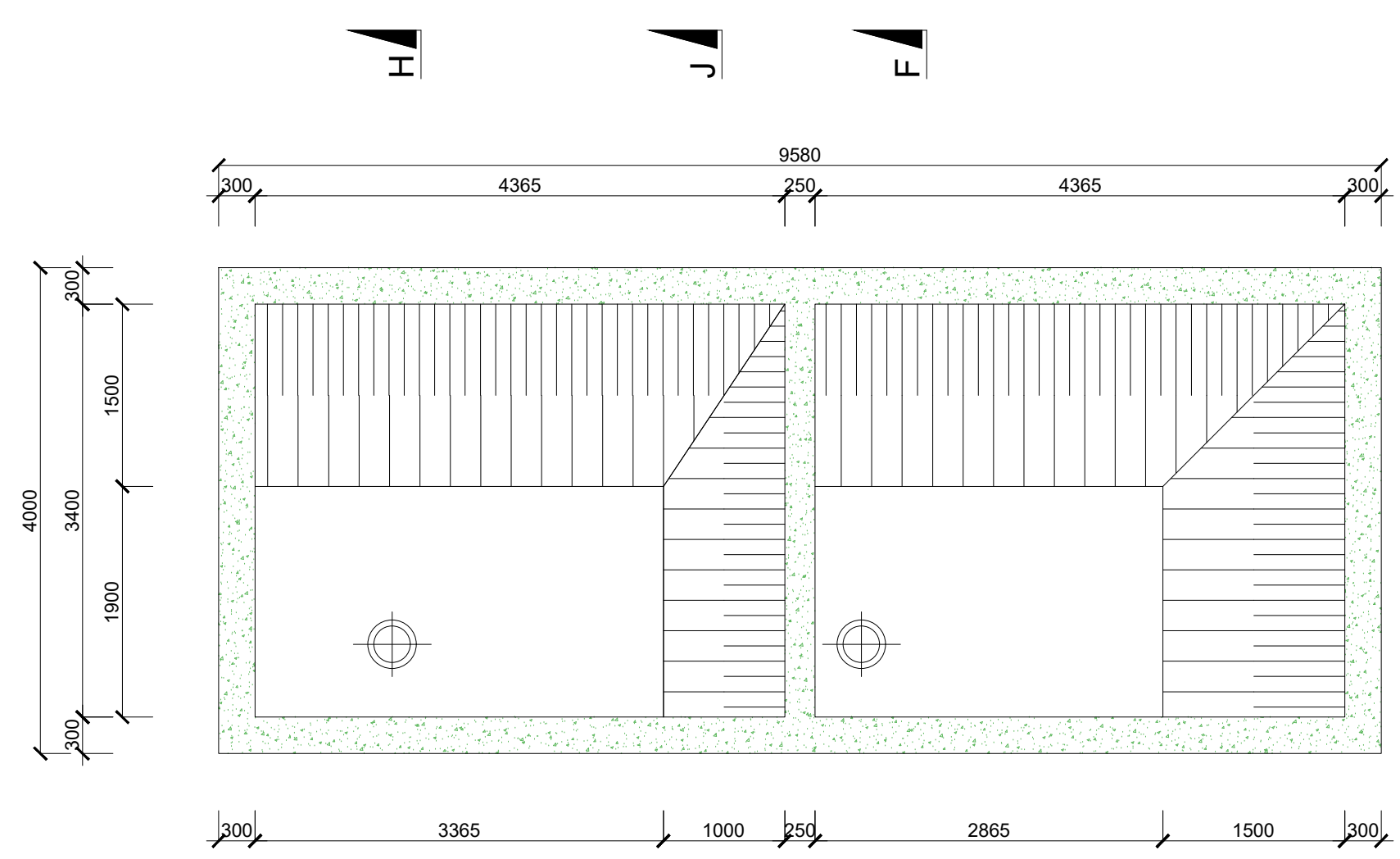
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SCALE 1:50



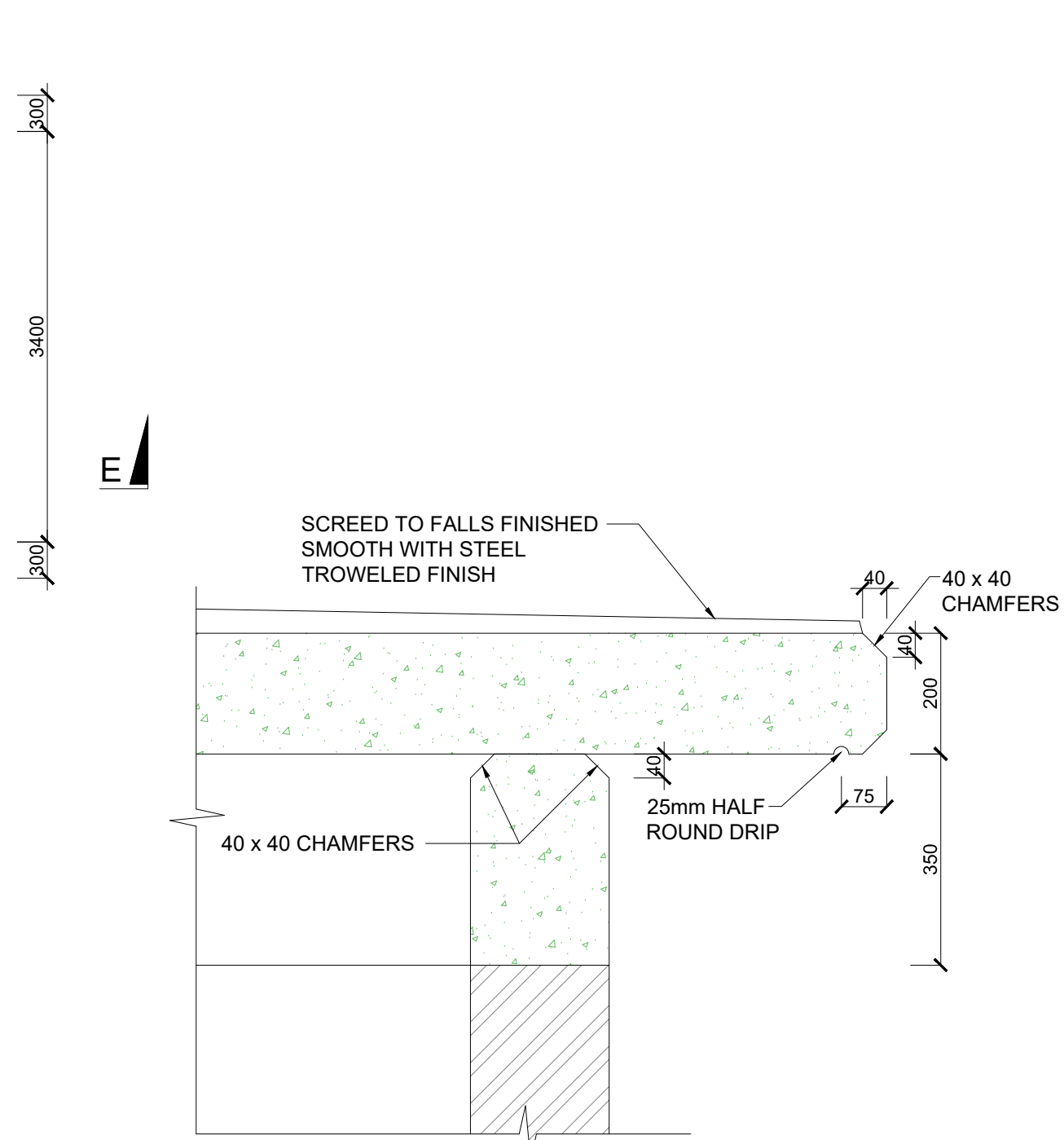
SECTIONAL PLAN C-C
SCALE 1:50



SECTIONAL PLAN B-B
SCALE 1:50

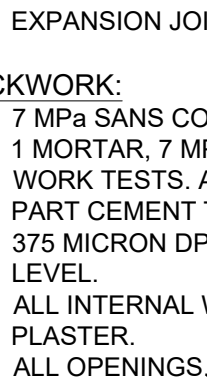


SECTIONAL PLAN A-A
SCALE 1:50



DETAIL 1
SCALE 1:10

ISSUED FOR TENDER

GENERAL NOTES:																							
1. ALL WORK AND MATERIALS TO COMPLY WITH NATIONAL BUILDING REGULATIONS, SANS 1200, D164, B2, 1083 AND 1090.																							
2. DIMENSIONS ARE NOT TO BE SCALED OFF THE DRAWINGS. ALL DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER TIMEOUSLY.																							
3. ALL SHARP EXPOSED EDGES TO BE CHAMFERED 40mm x 40mm.																							
4. PRECAST CONCRETE LINTOLS TO BE PLACED ACROSS ALL OPENINGS.																							
5. GROUND WATER CONTROL AND FALLS OF STORMWATER DRAINAGE TO BE AGREED WITH ENGINEER ON SITE.																							
FOUNDATIONS AND EARTHWORKS:																							
1. MAX. SOIL BEARING PRESSURE UNDER FOUNDATIONS IS 250 kPa.																							
2. ALL EXCAVATIONS MUST BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE ANY CONCRETE FOUNDATION OR BLINDING IS CAST.																							
3. A 40mm THICK BLINDING LAYER OF 10 MPa/19mm SHALL BE CAST UNDER ALL FOUNDATIONS.																							
4. ALL FOOTINGS ARE PLACED SYMMETRICALLY BELOW COLUMNS OR WALLS UNLESS OTHERWISE SHOWN.																							
5. ALL EARTHWORKS IN ACCORDANCE WITH SANS 1200 D - 1982 OR DA - 1982, INCLUDING LATEST REVISIONS.																							
6. NO FOUNDATION SHALL BE CAST ON EITHER FILL OR BACKFILL MATERIAL. PORTIONS WHICH ARE OVER-EXCAVATED BEYOND THE DEPTH REQUIRED BY THE ENGINEER, TO BE FILLED WITH MASS CONCRETE (10 MPa / 19 mm) AT CONTRACTORS EXPENSE.																							
7. ALL BACKFILLING BEHIND RETAINING WALLS TO BE COMPACTED TO 95% MOD. AASHTO.																							
CONCRETE:																							
1. CONCRETE STRENGTH SHALL BE AT 28 DAYS AS FOLLOWS : BLINDING 10 MPa / 19 mm FOUNDATIONS AND WALLS 30 MPa / 19 mm BEAMS, SLABS AND STAIRS 30 MPa / 19 mm SURFACE BEDS 30 MPa / 19 mm																							
2. ALL CONCRETE WORK SHALL COMPLY WITH THE STRUCTURE HAS BEEN DESIGNED ARE AS FOLLOWS: ROOF 300mm 3. CURING OF CONCRETE SHALL BE CARRIED OUT STRICTLY IN ACCORDANCE WITH SANS 1200 G. 4. ALL CONCRETE WORK SHALL COMPLY WITH SANS 1200 G. 5. 100mm KICKERS FOR WALLS HAVE BEEN ALLOWED. THEY SHALL BE CAST WITH THE SAME STRENGTH AS AND MONOLITHIC WITH THE CONCRETE ELEMENTS BELOW THEM. 6. STRIPPING TIMES OF SHUTTERING AND PROPPING SHALL BE IN ACCORDANCE WITH SANS 1200 G.																							
REINFORCEMENT:																							
1. THE CONTRACTOR SHALL INSPECT AND APPROVE THE FIXED REINFORCEMENT BEFORE THE ENGINEER IS NOTIFIED. ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED IN WRITING BY THE ENGINEER BEFORE CASTING OF CONCRETE MAY COMMENCE.																							
2. BENDING OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH SANS 1082.																							
3. REINFORCEMENT SHALL BE FIXED TO COMPLY WITH THE TOLERANCES AS SPECIFIED IN SANS 1200 G AND/OR THE PROJECT SPECIFICATION.																							
4. NO HEAT TREATMENT OR CUTTING OF STEEL WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER SHALL BE ALLOWED.																							
5. MINIMUM CONCRETE COVER TO REINFORCING, EXCEPT WHERE NOTED OTHERWISE ON BENDING SCHEDULES, IS AS FOLLOWS : SLABS AND STAIRS 30mm BEAMS 50mm FOUNDATIONS 50mm WALLS 50mm																							
BRICKWORK:																							
1. ALL WALLS INDICATED ARE LOAD BEARING AND MUST BE CONSTRUCTED TO FULL HEIGHT BEFORE ANY CONCRETE IS CAST.																							
2. ALL LOAD BEARING BRICKWORK TO HAVE A CHARACTERISTIC CRUSHING STRENGTH OF 14MPa. CLASS 1 MORTAR.																							
																							
4. BRICKFORCE TO BE PROVIDED IN EVERY 5th COURSE IN ALL LOAD BEARING BRICK WALLS, 15mm VERTICAL EXPANSION JOINTS.																							
BRICKWORK:																							
1. 7 MPa SANS COMPLIANT BRICK TO BE USED WITH CLASS 1 MORTAR, 7 MPa LABORATORY STRENGTH, 5 MPa WORK TESTS. APPROXIMATE MIX PROPORTION OF 1 PART CEMENT TO 6 PARTS BUILDING SAND.																							
2. 315 MICRON DPC UNDER WALLS AT FLOOR OR SLAB LEVEL.																							
3. ALL INTERNAL WALLS TO HAVE COMMONS, 10mm THICK PLASTER.																							
4. ALL OPENINGS, DOORS AND WINDOWS, TO HAVE ONE HEADER COURSE OVER WITH BRICKFORCE EVERY COURSE FOR FIVE COURSES ABOVE EXTENDING A MINIMUM OF 1000mm ON EACH SIDE OF THE OPENING. FRAMES TO BE PROPPED FOR A MINIMUM OF SEVEN DAYS AFTER COMPLETION OF THE BRICKWORK TO WALLPLATE LEVEL.																							
FLOOR:																							
1. 200mm THICK 25 MPa CONCRETE SURFACE BED REINFORCED WITH 1 LAYER WELD MESH REF. 385 ON 250 MICRON PVC DAMP PROOF MEMBRANE ON WELL COMPACTED HARD CORE TREATED WITH POISON FOR TERMITES.																							
CHASES IN WALLS:																							
1. CHASES SHALL BE MACHINE CUT WITH SUFFICIENT DEPTH SO AS NOT TO AFFECT THE THICKNESS OF THE PLASTER COAT. HORIZONTAL CHASES EXCEEDING 1m IN LENGTH AND LOCATED IN BRICK SHALL NOT BE PERMITTED WITHOUT THE ENGINEER'S APPROVAL.																							
2. HOLES THROUGH WALLS SHALL BE DRILLED AND PUNCHED.																							
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 UGU DISTRICT MUNICIPALITY P O Box 33 Port Shepstone 4240 Tel: 033 666 5841 Fax: 033 666 4506  MAFAHLENI ENGINEERS AND PROJECT MANAGERS P O Box 50079 Port Shepstone 4240 Tel: 033 666 0028 Fax: 033 666 0078 3 Uniform Road Port Shepstone admin@mafahleni.co.za																							
PROJECT																							
UMZINTO SLUM CLEARANCE: FARM ISONTI LOW COST HOUSING SANITATION SCHEME - PHASE 2																							

