

LOCALITY PLAN

SCALE: NTS

PROJECT : MANAGING COASTAL AQUIFERS (MCAP), WOTJE

LOCATION : WOTJE, REPUBLIC of MARSHALL ISLAND

JOB NO. : 22307117

CLIENT :



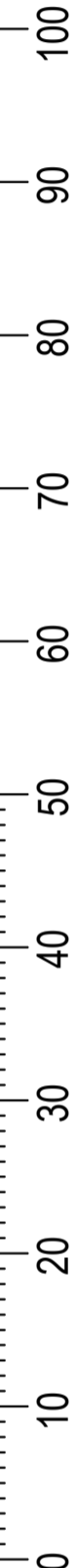
CONSULTANT:



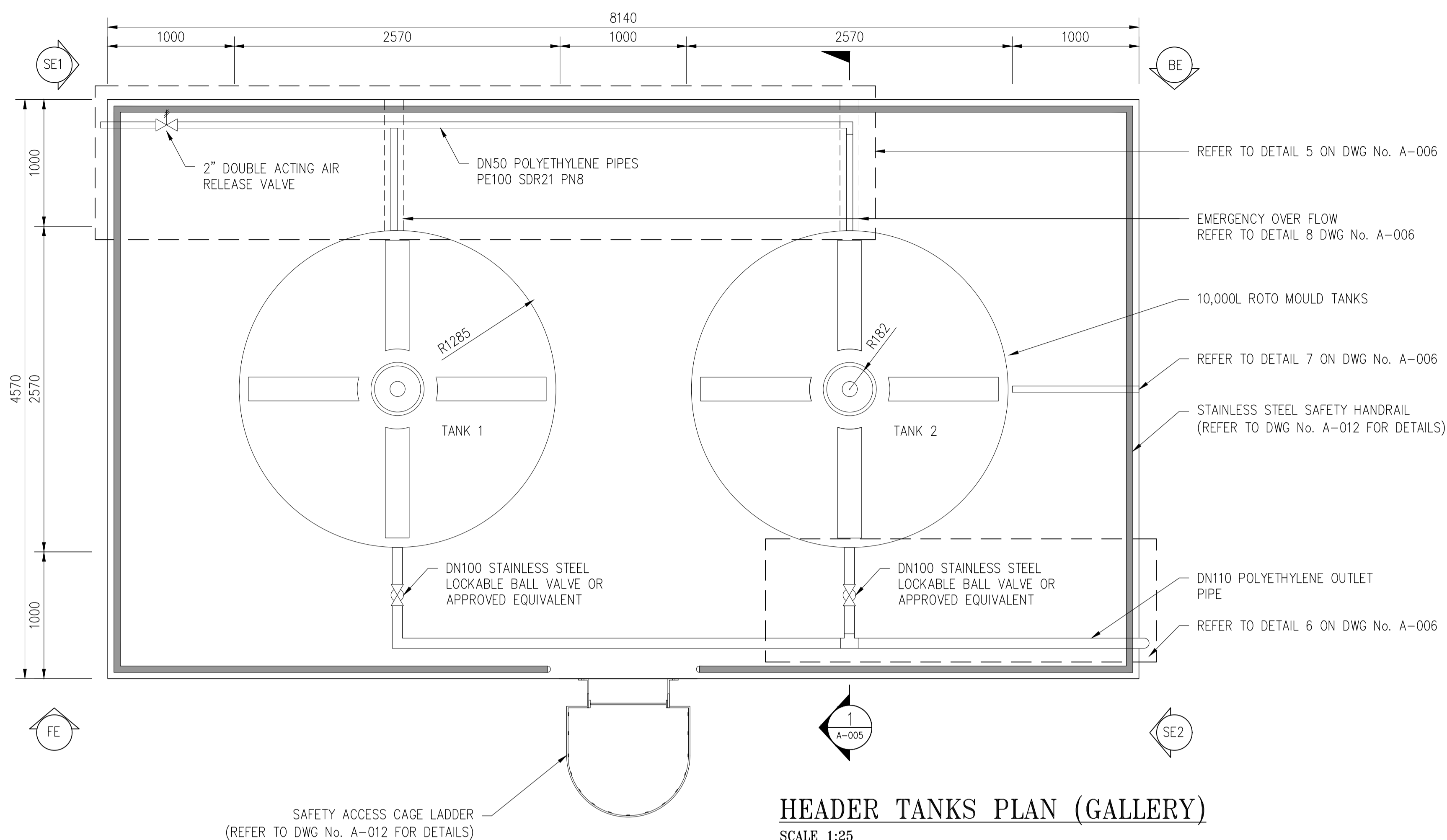
DRAWING SHEET SCHEDULES

| SHEET No. | SHEET TITLE | REV | DATE |
|-----------|---|-----|----------|
| G-001 | COVER SHEET | 0A | 5-Oct-23 |
| A-001 | GALLERY TANK OVERHEAD FLOOR PLAN, BEAM LAYOUT AND SECTIONS PIPEWORK DETAILS | 0A | 5-Oct-23 |
| A-002 | FOUNDATION PLAN | 0A | 5-Oct-23 |
| A-003 | HEADER TANK, INLET PIPE WORK ELEVATIONS (BE & SE1) | 0A | 5-Oct-23 |
| A-004 | HEADER TANK, INLET PIPE WORK ELEVATIONS (FE & SE2) | 0A | 5-Oct-23 |
| A-005 | GALLERY TANK SECTION | 0A | 5-Oct-23 |
| A-006 | GENERAL PIPE WORK DETAILS | 0A | 5-Oct-23 |
| A-007 | GALLERY PUMP PIPE WORK SECTION (TYP.) | 0A | 5-Oct-23 |
| A-008 | GALLERY SECTION AND DETAIL | 0A | 5-Oct-23 |
| A-009 | COLUMN STRUCTURAL DETAILS, PAD FOOTINGS & TYPICAL SECTIONS | 0A | 5-Oct-23 |
| A-010 | COMMUNITY FILLING POINT SITE PLAN & TYPICAL SECTION | 0A | 5-Oct-23 |
| A-011 | SAFETY ACCESS CAGE LADDER AND TYPICAL HANDRAIL ELEVATIONS, SECTIONS AND DETAILS | 0A | 5-Oct-23 |

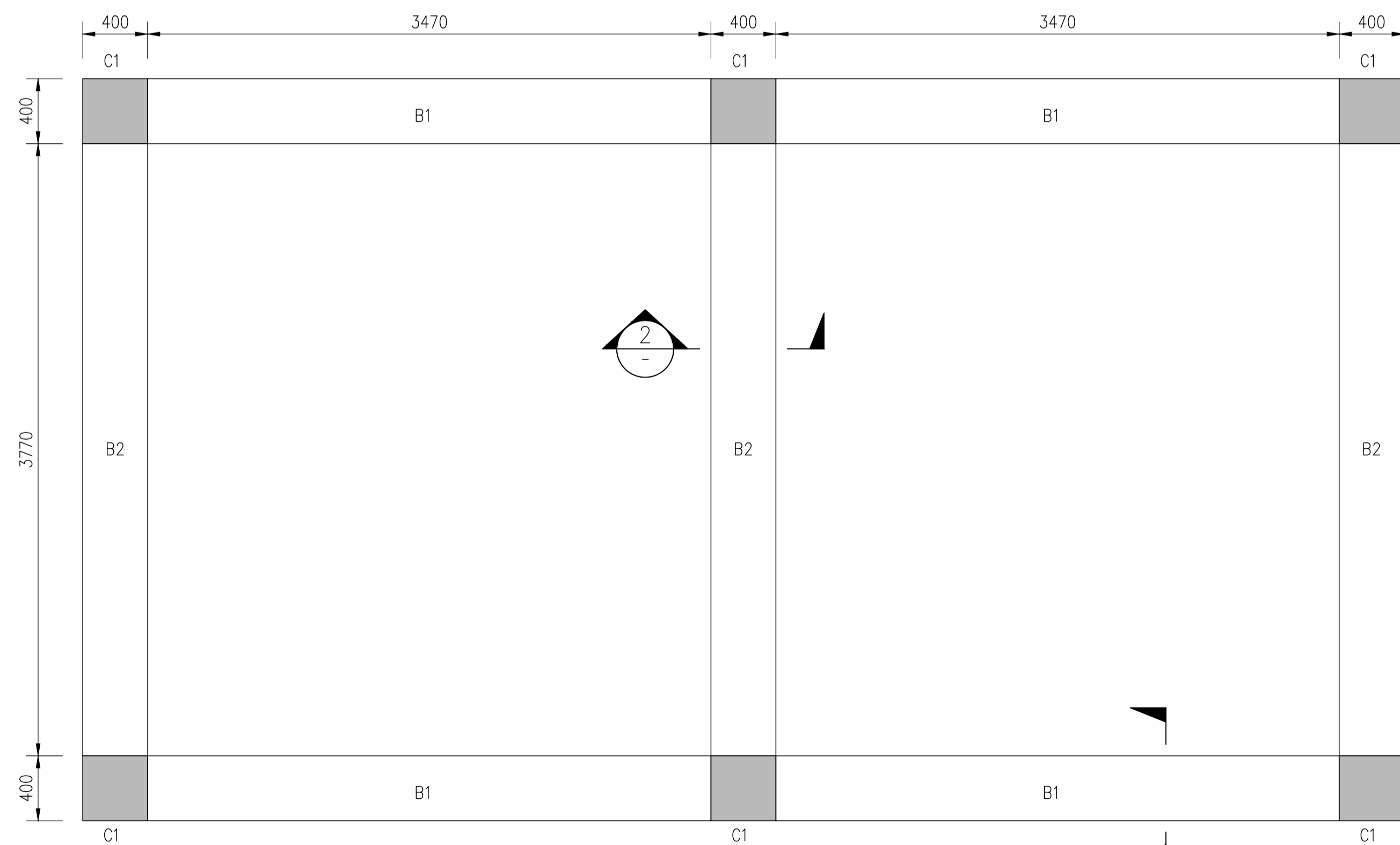
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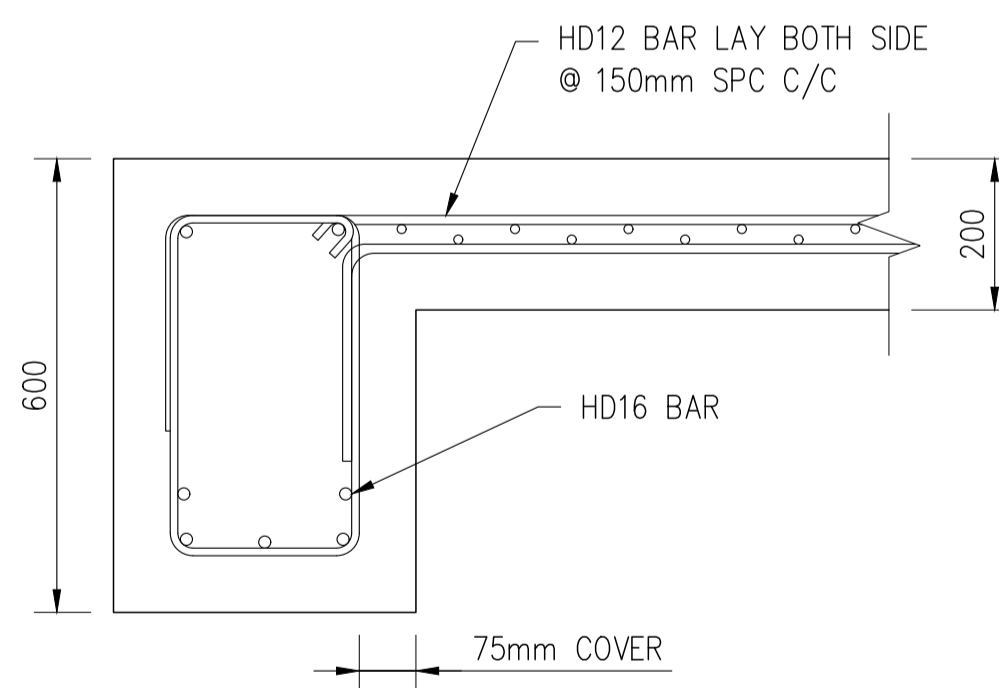
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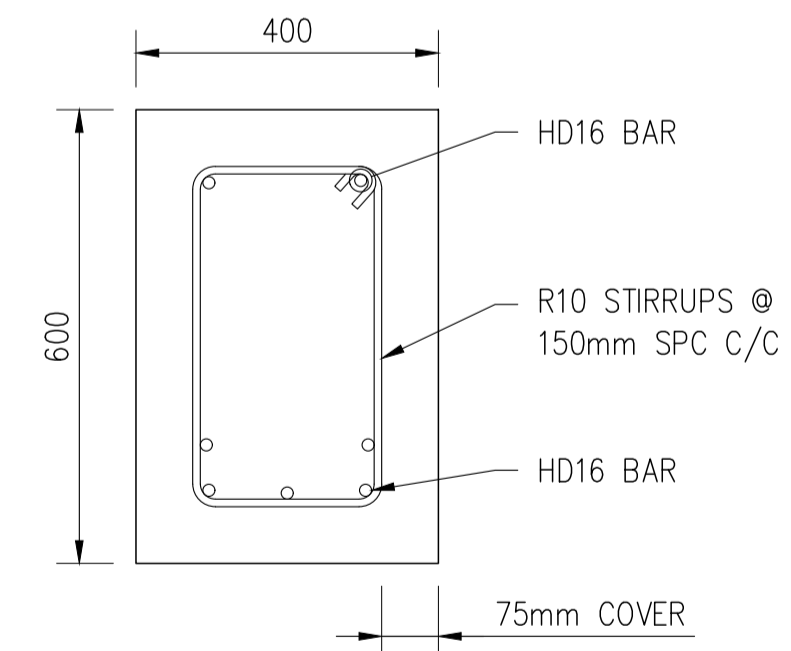
HEADER TANKS PLAN (GALLERY)
SCALE 1:25



BEAM LAYOUT
SCALE 1:25



1 BEAM SECTION-B1
SCALE 1:10



2 BEAM SECTION-B2
SCALE 1:10

- NOTE:**
1. ALL DIMENSION ARE IN MILLIMETERS.
 2. BUILDERS TO CHECK DIMENSION PRIOR TO CONSTRUCTION.
 3. BUILDER NOT TO MAKE ANY CHANGES, IF DO SO, NOTIFY APPROVAL OF THE ENGINEER OR SUPERVISOR ON SITE.
 4. CONCRETE IS TO BE 30MPa STRENGTH.
 5. PLASTIC DAMP PROOF COURSE (DPC) SHEETING PROVIDED BETWEEN ALL CONCRETE SLABS AND SOIL.

- LEGEND:**
- C1 - COLUMN
 - B1 - BEAM 1
 - B2 - BEAM 2

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| OA | FOR TENDER | HS | NK | 18.10.23 |
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| ISSUE | DESCRIPTION | CHECKED | APPROVED | DATE |
| | | | | |

Client:

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CIVIL, STRUCTURAL & PROJECT MANAGEMENT

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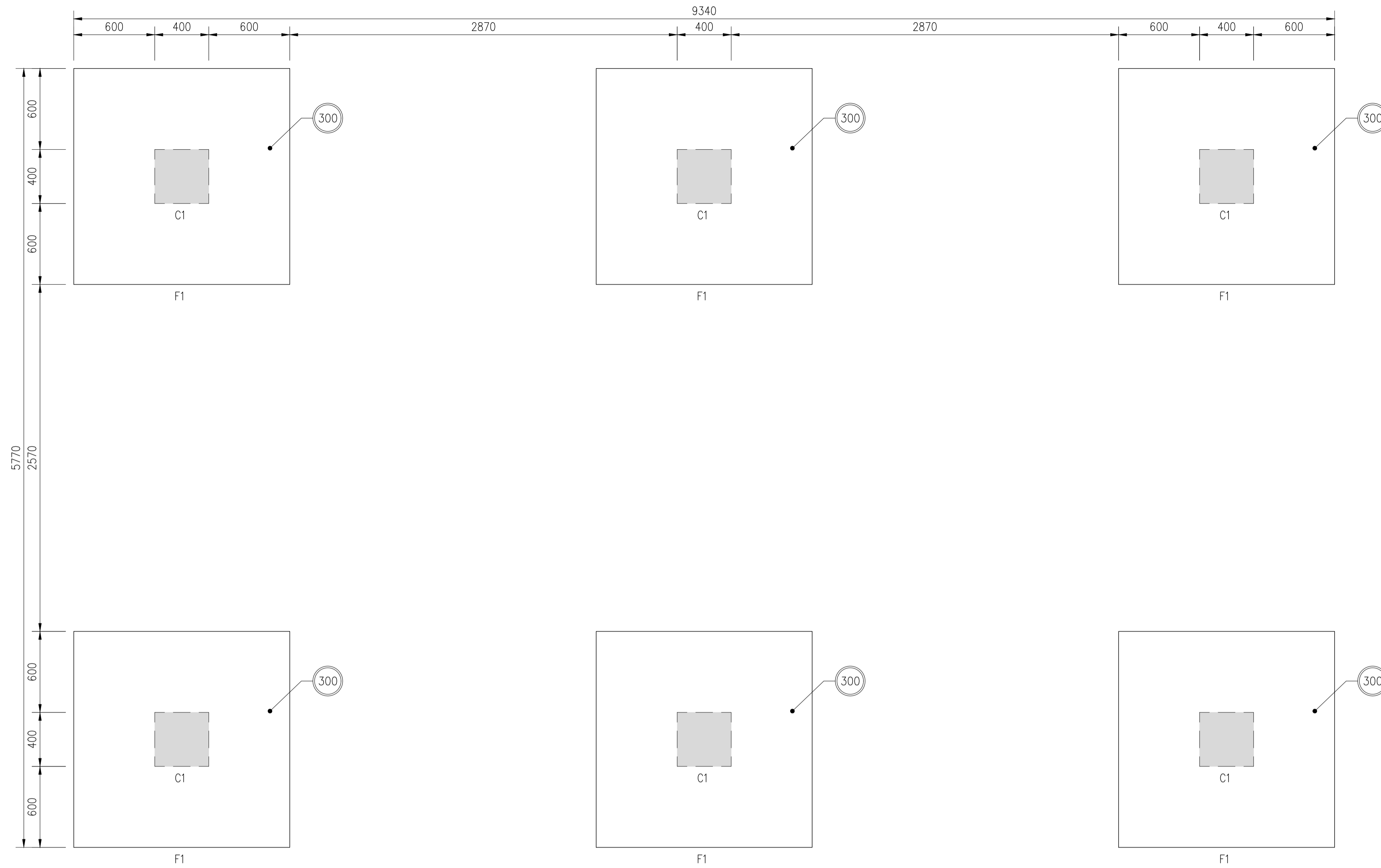
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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

TITLE: **GALLERY TANK OVERHEAD FLOOR PLAN, BEAM LAYOUT AND SECTIONS PIPEWORK DETAILS**

| | |
|--------------|-----------------|
| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-001 |



FOUNDATION PLAN
SCALE 1:20

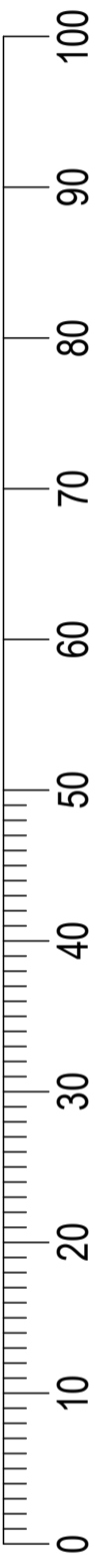
NOTE:

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
3. PIPEWORK TO CONNECTED WITH PE COMPRESSION FITTINGS UNLESS NOTED OTHERWISE.
4. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
5. PIPEWORK TO BE CONNECTED WITH APPROVED COMPRESSION FITTINGS.
6. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 MARINE GRADE UNLESS NOTED OTHERWISE.
7. UNO, ALL CONCRETE TO HAVE A MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH (f_c) OF 30MPa AT 28 DAYS.
8. PLASTIC DAMP PROOF COURSE (DPC) SHEETING PROVIDED BETWEEN ALL CONCRETE AND SOIL INTERACTION.
9. THE MINIMUM BEARING CAPACITY OF THE SUB-BASE AT THE UNDERSIDE OF THE PAD FOOTING SHALL BE 150KPa. THE DEPTH OF THE PAD FOOTINGS MAY BE INCREASED TO ALLOW THE FOOTINGS TO BE FOUNDED ON A FIRMER STRATA.
10. APPROVED FILL MATERIAL TO BE COMPACTED IN LAYERS NOT EXCEEDING 200mm. 95% COMPACTION SHALL BE ACHIEVED.
11. BACKFILL MATERIAL SHALL BE SELECTED OR APPROVED AS SPECIFIED OR DIRECTED BY THE ENGINEER. SELECTED BACKFILL SHALL BE COARSE OR FINE. FINE SELECTED BACKFILL SHALL CONSIST OF FINE GRANULAR SOIL, OR LOAM, FREE OF HARD NODULES, ROOTS, STUMPS OR OTHER PIECES OF ORGANIC MATERIAL, AND CONTAINING NO STONES LARGER THAN 10mm. COARSE SELECTED BACKFILL SHALL CONSIST OF ANY WELL GRADED MATERIAL CONTAINING NO ROOTS, STUMPS OR OTHER PIECES OF ORGANIC MATERIAL, AND CONTAINING NO STONES LARGER THAN 75mm.

LEGEND:

- C1 - COLUMN
- F1 - PAD FOOTING
- 300 - FOOTING THICKNESS

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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

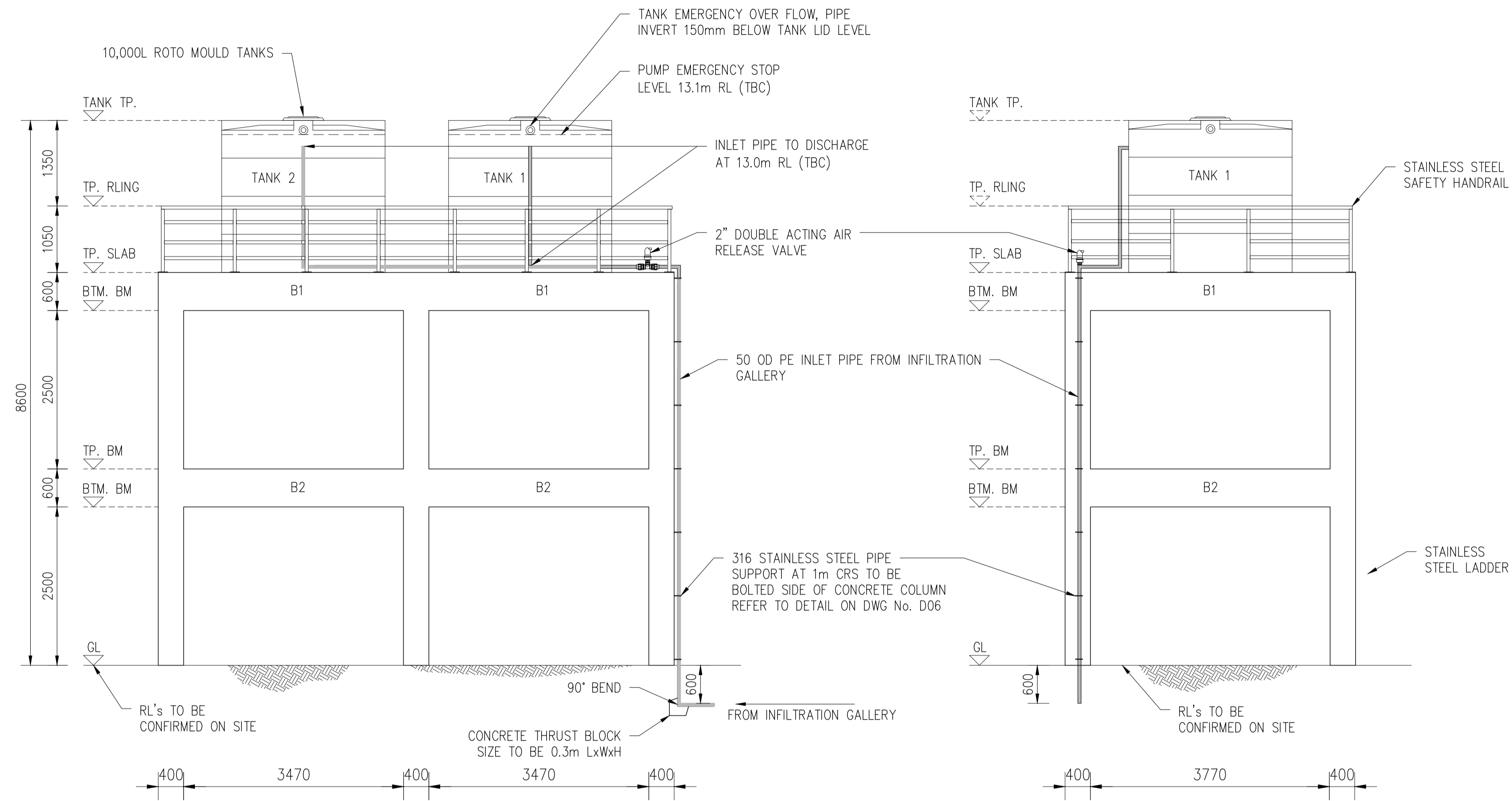
TITLE: **FOUNDATION PLAN**

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| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-002 |

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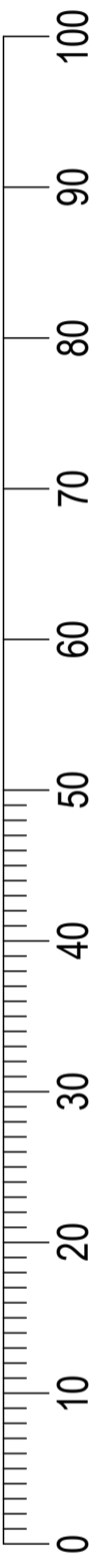
1. ALL DIMENSION ARE IN MILLIMETERS.
2. BUILDERS TO CHECK DIMENSION PRIOR TO CONSTRUCTION.
3. BUILDER NOT TO MAKE ANY CHANGES, IF DO SO, NOTIFY APPROVAL OF THE ENGINEER OR SUPERVISOR ON SITE.
4. CONCRETE IS TO BE 30MPa STRENGTH.
5. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
6. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 STAINLESS STEEL GRADE.
7. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
8. FINAL PIPE WORK LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.



BACK ELEVATION (BE)
SCALE 1:50

SIDE ELEVATION (SE1)
SCALE 1:50

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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

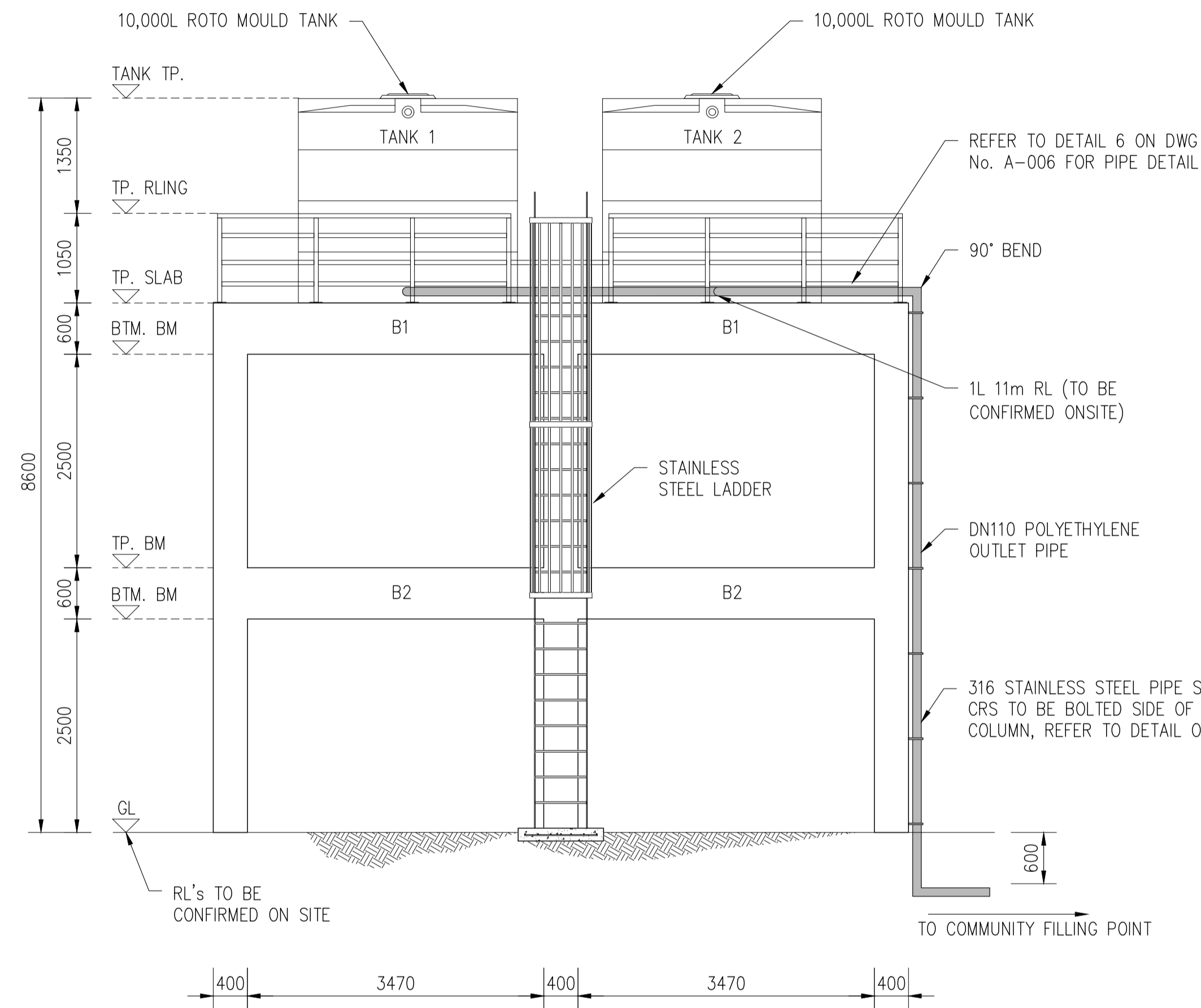
TITLE: **HEADER TANK INLET PIPE WORK ELEVATION (BE & SE1)**

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| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-003 |

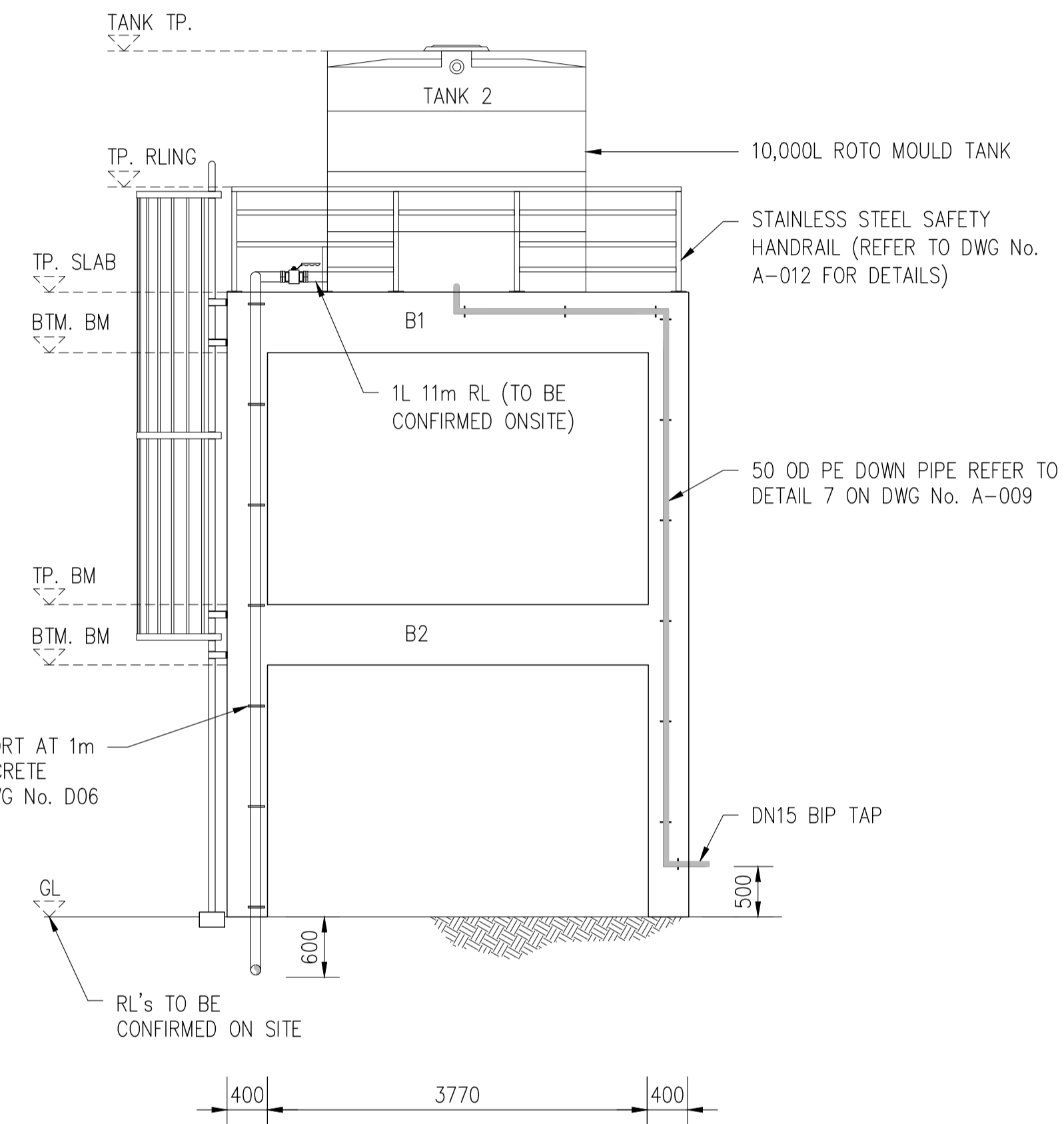
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NOTE:

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2. BUILDERS TO CHECK DIMENSION PRIOR TO CONSTRUCTION.
3. BUILDER NOT TO MAKE ANY CHANGES, IF DO SO, NOTIFY APPROVAL OF THE ENGINEER OR SUPERVISOR ON SITE.
4. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
5. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 STAINLESS STEEL GRADE.
6. ALL PVC PIPE WORK FITTINGS TO BE SN8 RRJ UNLESS NOTED OTHERWISE.
7. FINAL PIPE WORK LEVELS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
8. TANK DESIGN TO BE COMPLETED BY OTHERS. INSTALLATION OF TANK TO BE AS PER MANUFACTURER SPECIFICATION.



FRONT ELEVATION (FE)
SCALE 1:50



SIDE ELEVATION (SE2)
SCALE 1:50

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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

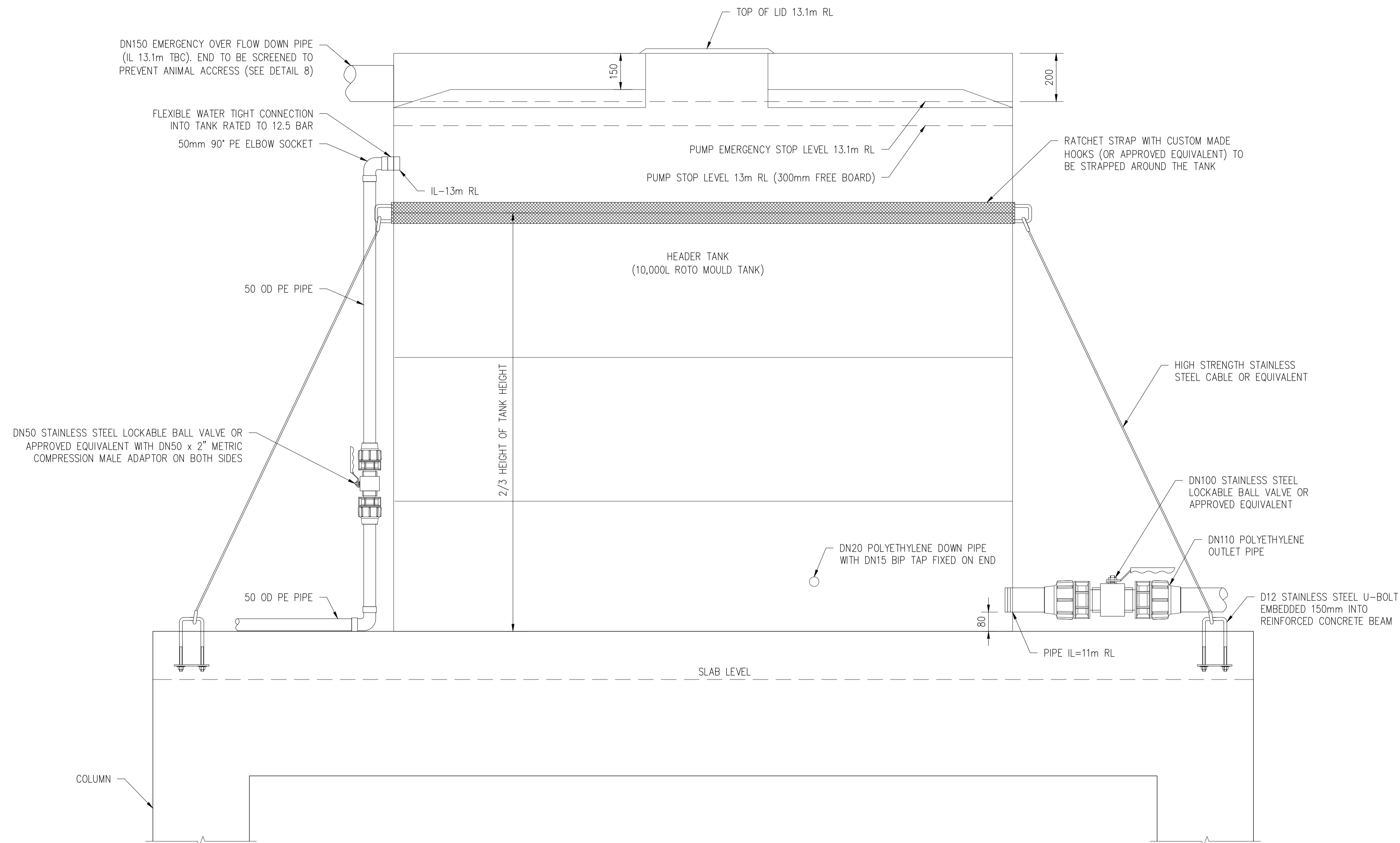
TITLE: **HEADER TANK INLET PIPE WORK ELEVATION (FE & SE2)**

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| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-004 |

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NOTE:

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2. FINAL PIPE WORK LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
3. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
4. PIPEWORK TO CONNECTED WITH PE COMPRESSION FITTINGS UNLESS NOTED OTHERWISE.
5. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
6. PIPEWORK TO BE CONNECTED WITH APPROVED COMPRESSION FITTINGS.
7. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 MARINE GRADE UNLESS NOTED OTHERWISE.



1 GALLERY TANK SECTION (TYP)
A-01 SCALE 1:10

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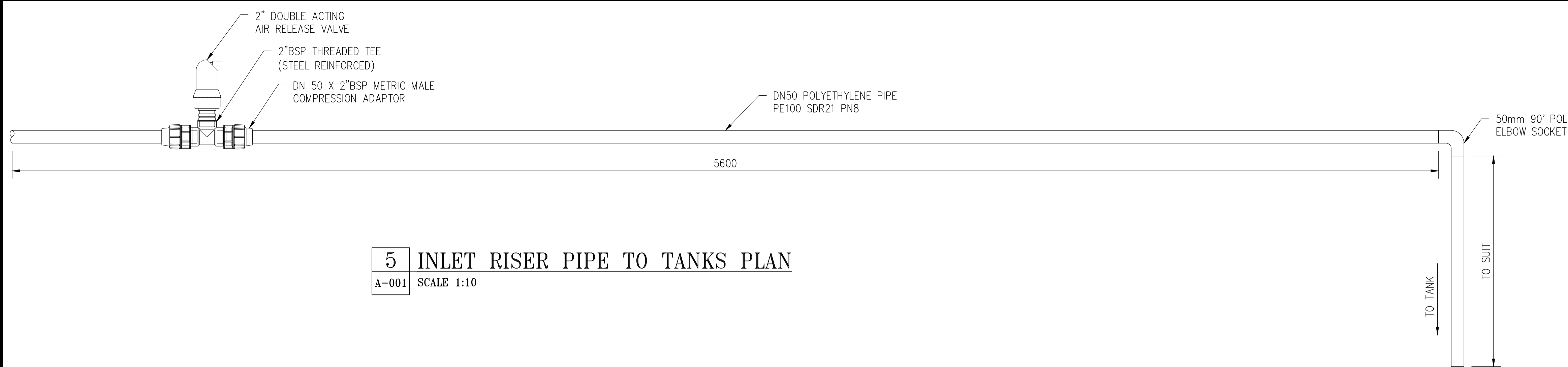
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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

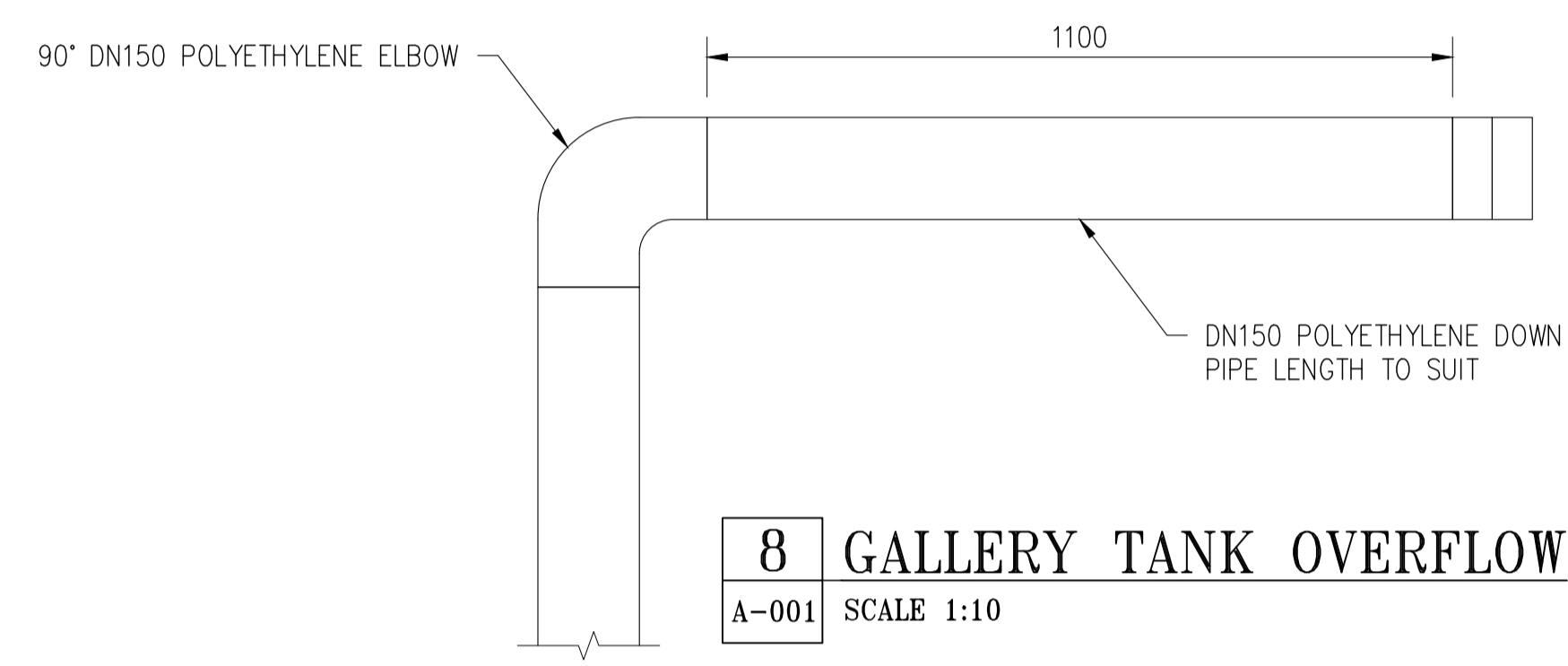
TITLE: **GALLERY TANK SECTION**

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| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-005 |

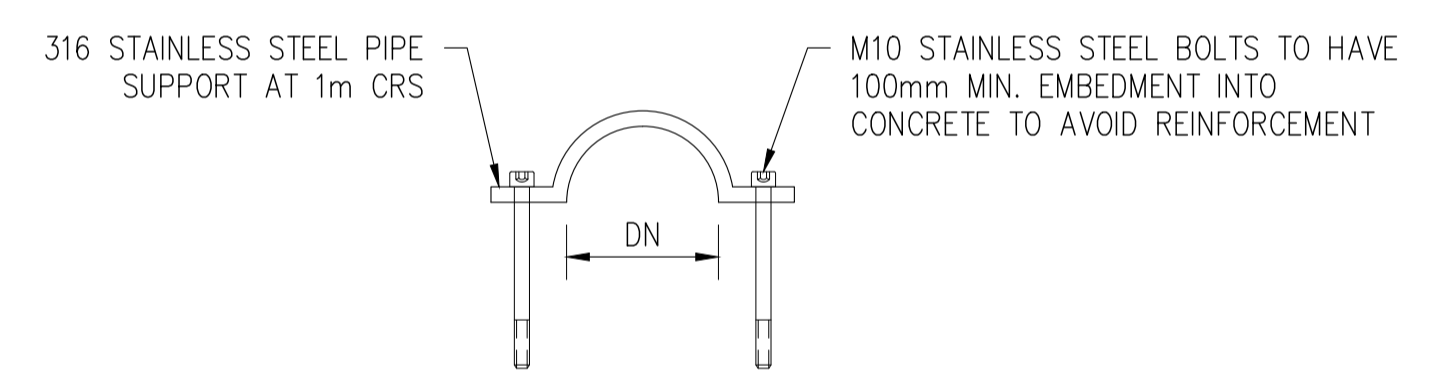


5 INLET RISER PIPE TO TANKS PLAN
A-001 SCALE 1:10

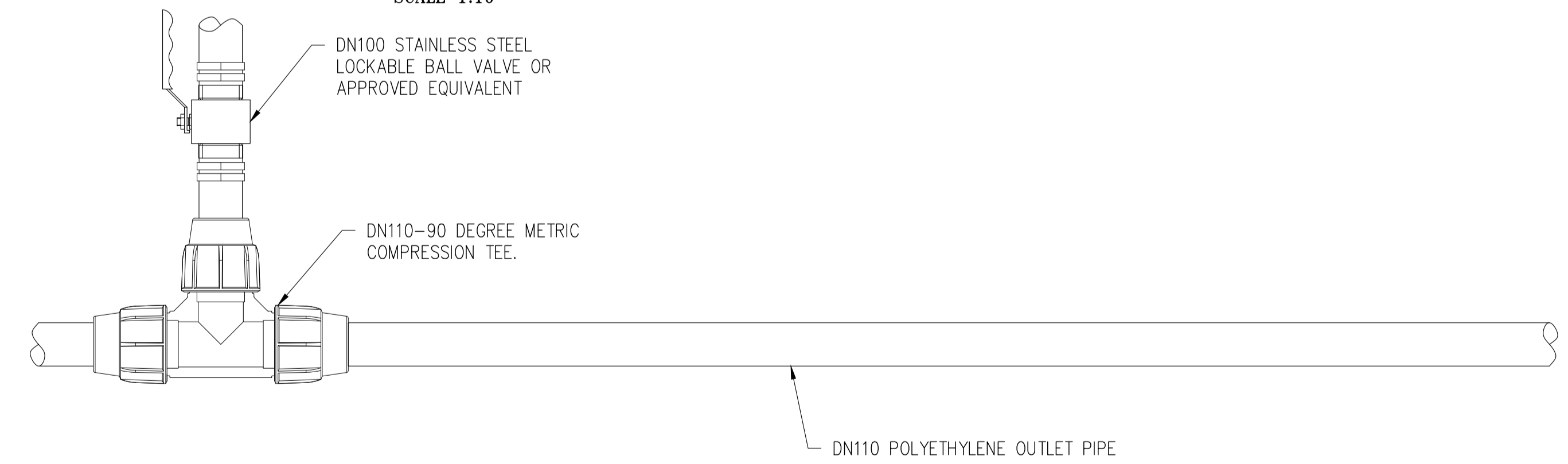
- NOTE:**
1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
 3. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
 4. PIPEWORK TO BE CONNECTED WITH APPROVED COMPRESSION FITTINGS.
 5. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 MARINE GRADE UNLESS NOTED OTHERWISE.



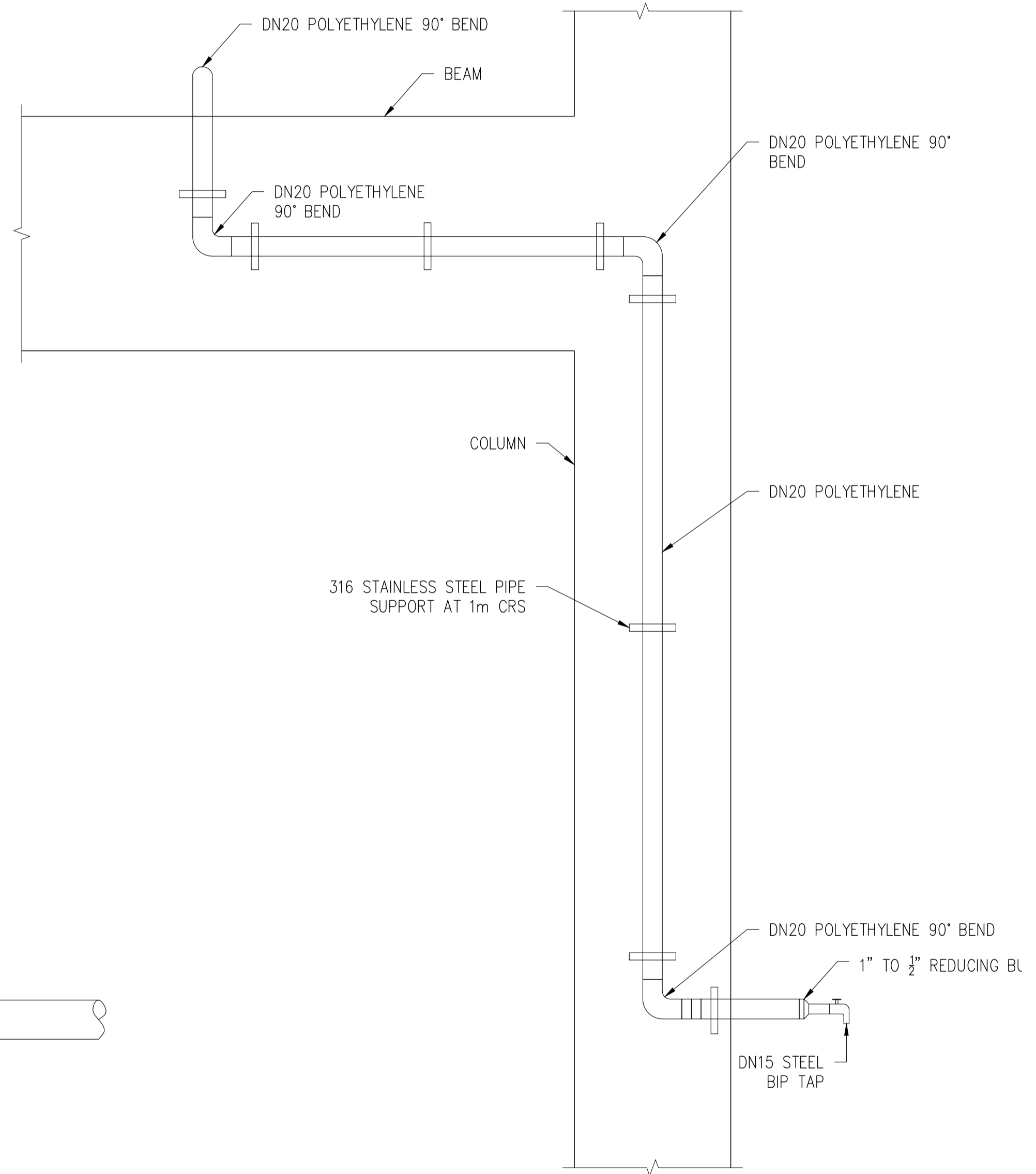
8 GALLERY TANK OVERFLOW
A-001 SCALE 1:10



STEEL PIPE SUPPORT (TYPICAL)
SCALE 1:10

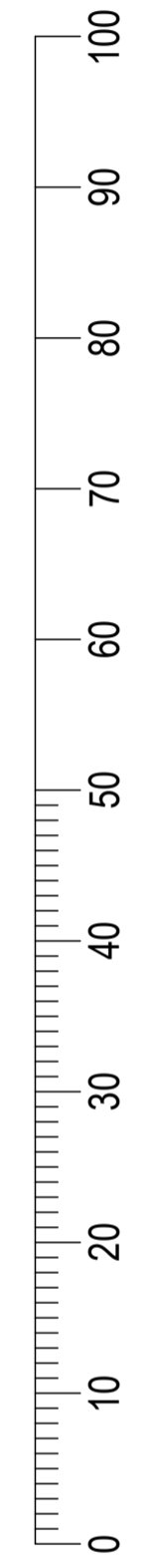


6 OUTLET PIPE TO COMMUNITY FILLING POINT
A-001 SCALE 1:10



7 TAP PIPEWORK
A-001 SCALE 1:10

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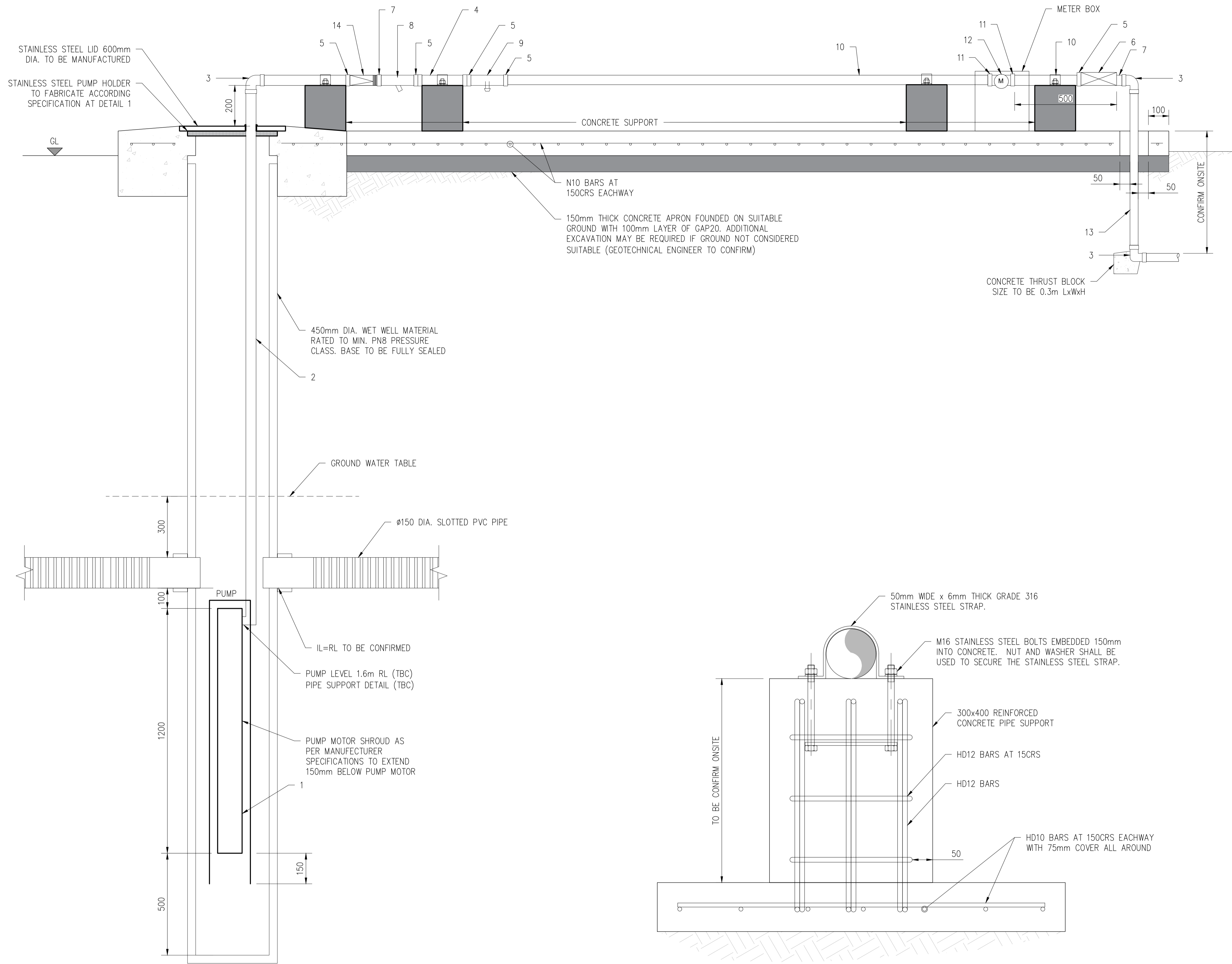
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|----------|--|
| PROJECT: | MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND |
| TITLE: | GENERAL PIPE WORK DETAILS |

| | |
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| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-006 |



- NOTE:
1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
 3. PIPEWORK TO CONNECTED WITH PE COMPRESSION FITTINGS UNLESS NOTED OTHERWISE.
 4. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
 5. PIPEWORK TO BE CONNECTED WITH APPROVED COMPRESSION FITTINGS.
 6. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 MARINE GRADE UNLESS NOTED OTHERWISE.
 7. CONCRETE IS TO BE 30MPa STRENGTH.
 8. PLASTIC DAMP PROOF COURSE (DPC) SHEETING PROVIDED BETWEEN ALL CONCRETE AND SOIL INTERECTION.

| LEGEND: | |
|---------|--|
| No. | DESCRIPTION |
| 1 | SUBMERSIBLE PUMP, LORENTZ PS2-1800 HRE 32 HELICAL ROTAR PUMP, EC DRIVE AND CONTROLLER, ASSOCIATED FITTINGS INCLUDING CABLING AND ACCESSORIES |
| 2 | 50 OD PE100 SDR21 P8 PIPE |
| 3 | 50mm 90 DEG. POLYETHYLENE ELBOW SOCKET |
| 4 | 50 OD PE100 SDR21 P8 PIPE |
| 5 | 50mm TO 2" BSP POLYETHYLENE MALE ADAPTOR |
| 6 | 2" BSP THREADED FEMALE LOCKABLE BRASS BALL VALVE |
| 7 | 2" BSP MALE THREADED NIPPLE |
| 8 | 50mm FEMALE POLY Y-STRAINER WITH SS MESH |
| 9 | 50mm POLY FEMALE TEE WITH 1" MALE THREAD OFFTAKE AND BIP TAP |
| 10 | 50 OD PE100 SDR21 P8 PIPE |
| 11 | 50mm TO 2" BSP POLYETHYLENE MALE ADAPTOR |
| 12 | 25mm MULTI JET FLOE METER WITH 30mm (1 & 1/4") FEMALE THREADED EACH SIDE |
| 13 | 50 OD PE100 SDR21 P8 PIPE |
| 14 | 50 mm CHECK VALVE |

1 PUMP PIPE WORK
A-103 SCALE 1:10

TYPICAL SUPPORT DETAIL
SCALE 1:5

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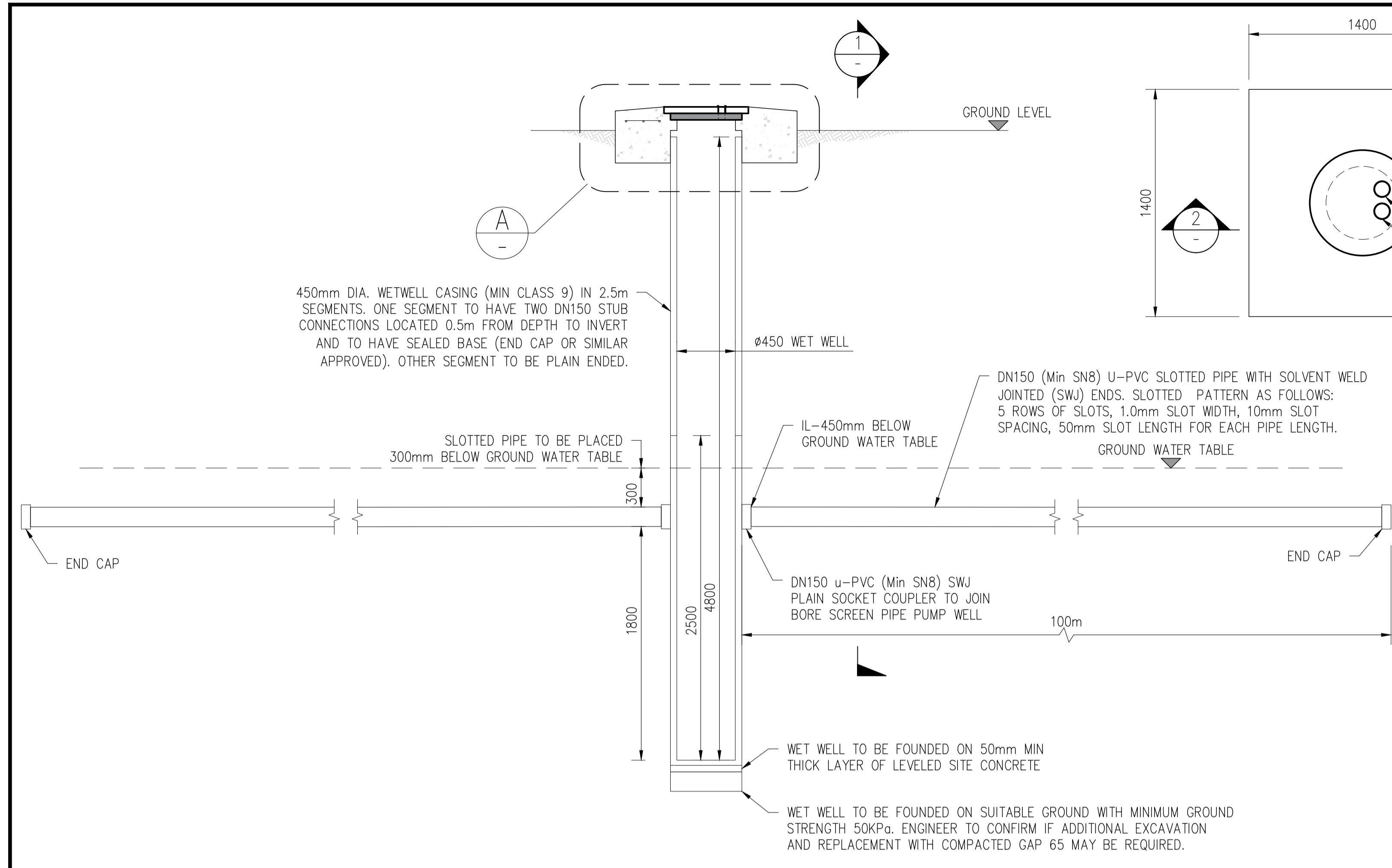
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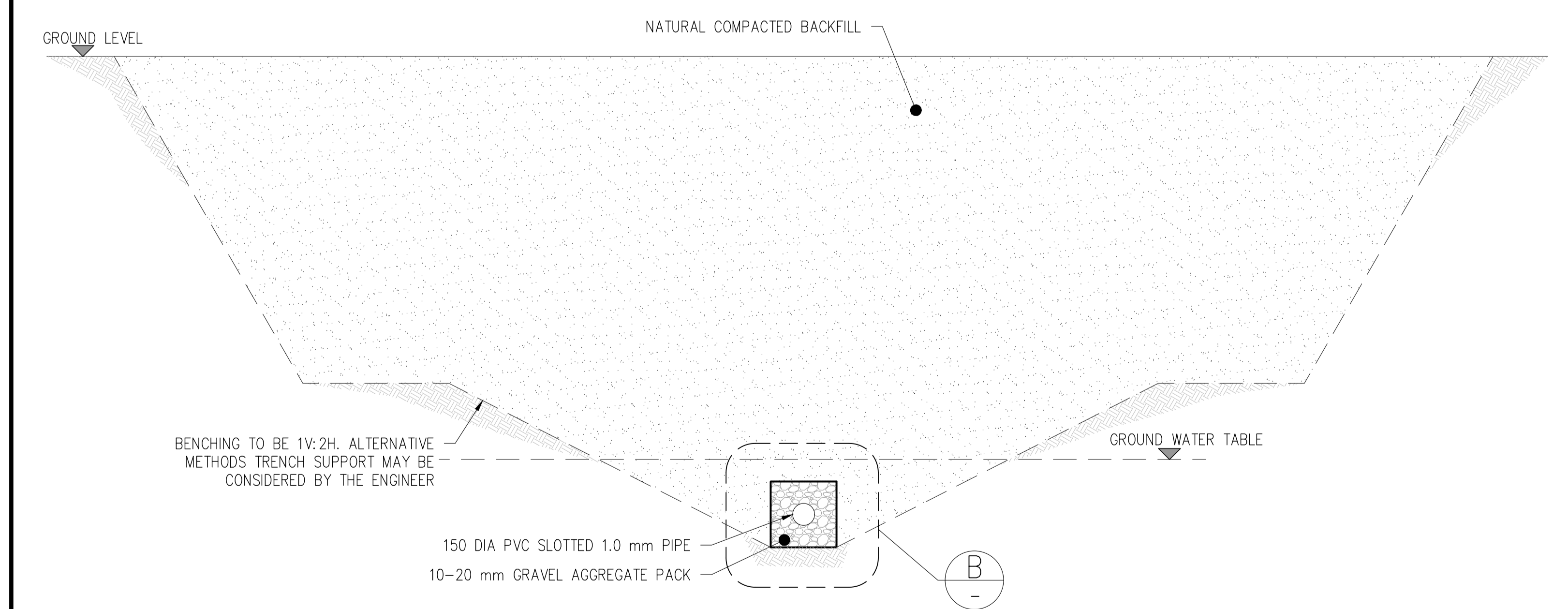
PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

TITLE: **GALLERY PUMP PIPE WORK SECTION CHAMBER REINFORCEMENT DETAIL**

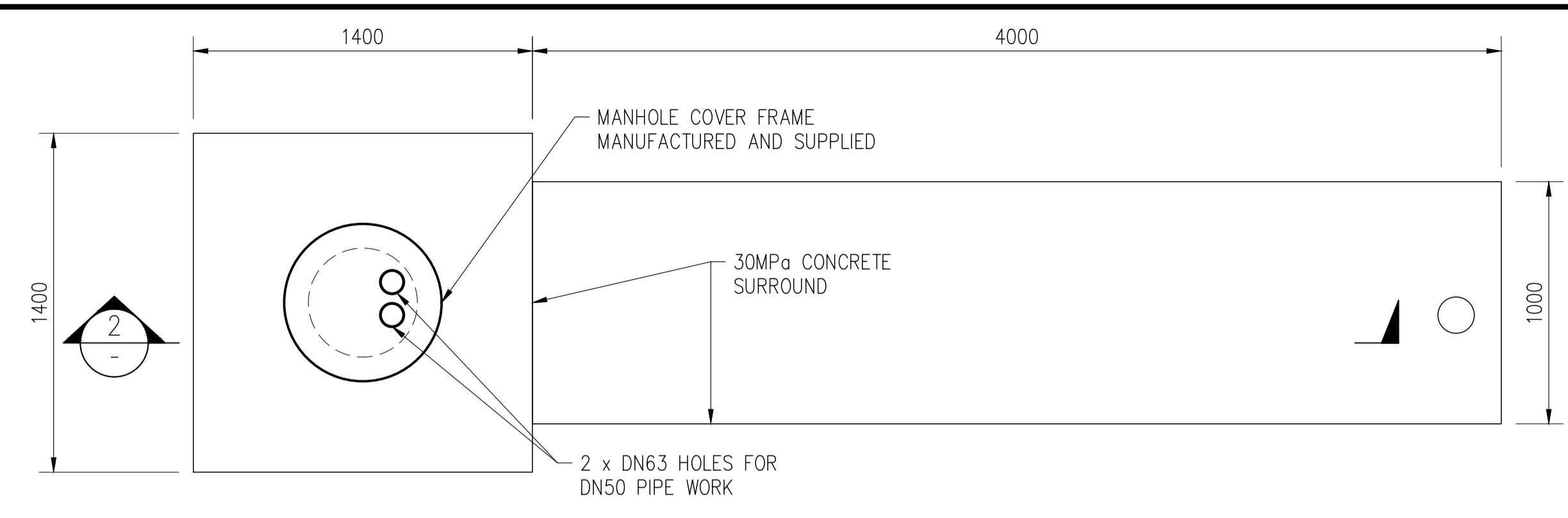
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| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-007 |



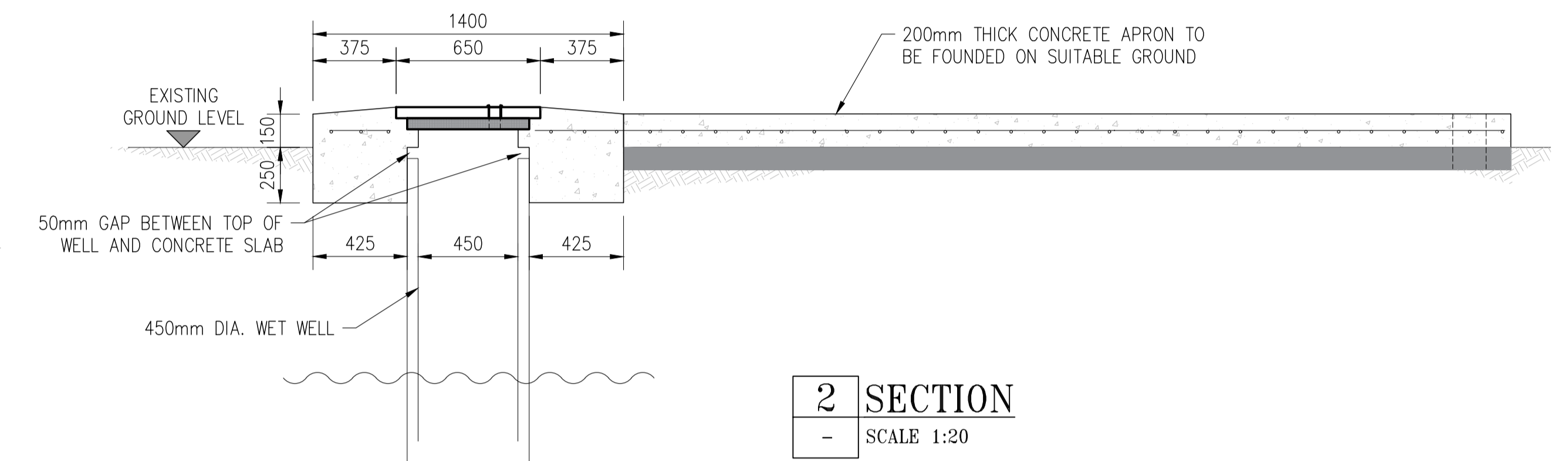
INFILTRATION GALLERY GENERAL ELEVATION
SCALE 1:25



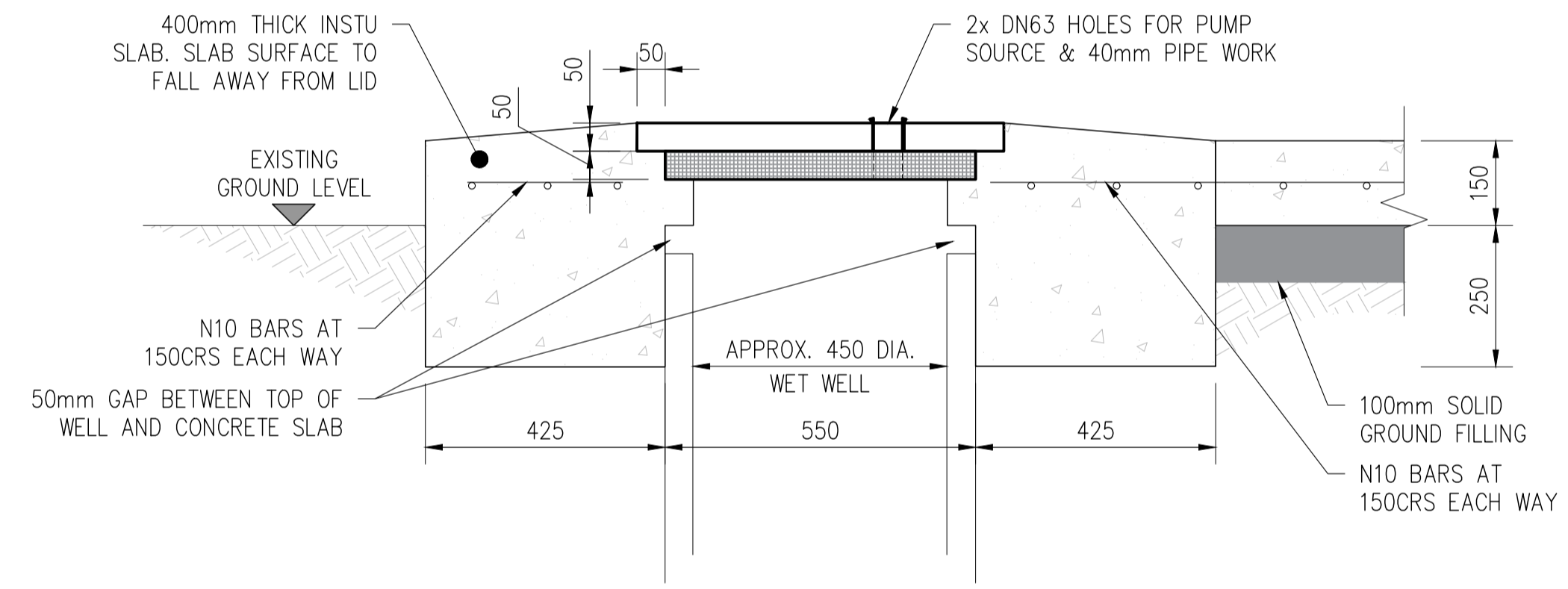
1 TYPICAL TRENCH DETAIL-SECTION 1
SCALE 1:25



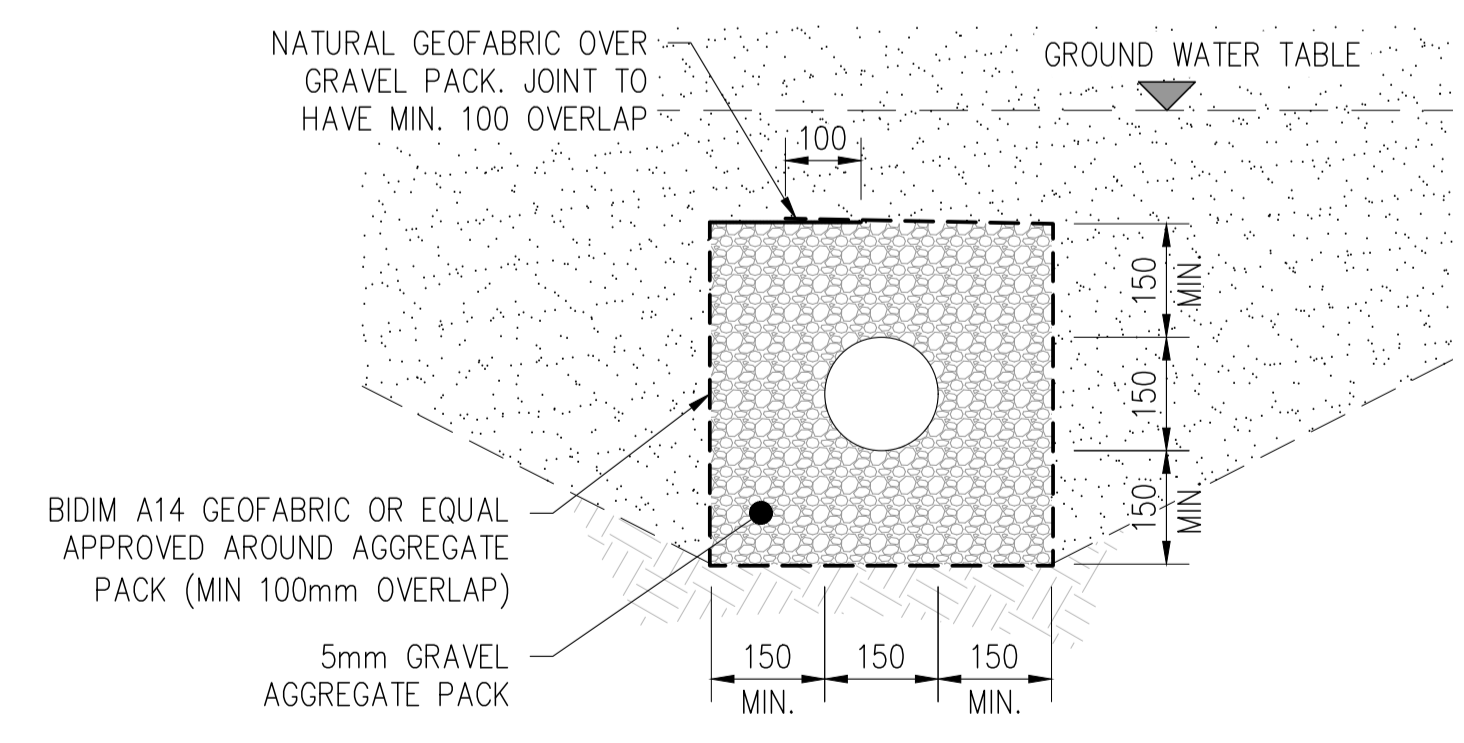
WELL COVER DETAIL
SCALE 1:20



2 SECTION
SCALE 1:20



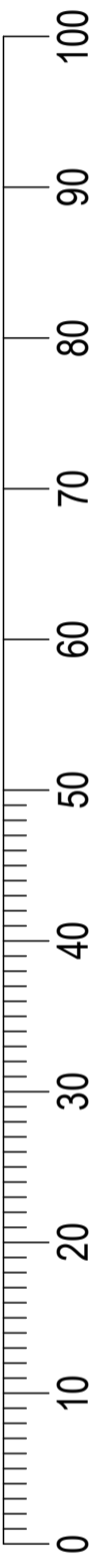
A DETAIL
SCALE 1:10



B DETAIL
SCALE 1:10

- NOTE:**
1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. FINAL PIPE WORK LEVEL TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
 3. ALL EXPOSED PIPELINE ARE TO BE POLYETHYLENE.
 4. PIPEWORK TO CONNECTED WITH PE COMPRESSION FITTINGS UNLESS NOTED OTHERWISE.
 5. ALL PE PIPE WORK AND FITTINGS TO BE CLASS PE100 SDR21 P8, UNLESS NOTED OTHERWISE.
 6. PIPEWORK TO BE CONNECTED WITH APPROVED COMPRESSION FITTINGS.
 7. ALL STEEL PIPE WORK AND FITTINGS TO BE 316 MARINE GRADE UNLESS NOTED OTHERWISE.
 8. CONCRETE IS TO BE 30MPa STRENGTH.
 9. PLASTIC DAMP PROOF COURSE (DPC) SHEETING PROVIDED BETWEEN ALL CONCRETE AND SOIL INTERSECTION.

DO NOT SCALE - IF IN DOUBT, ASK



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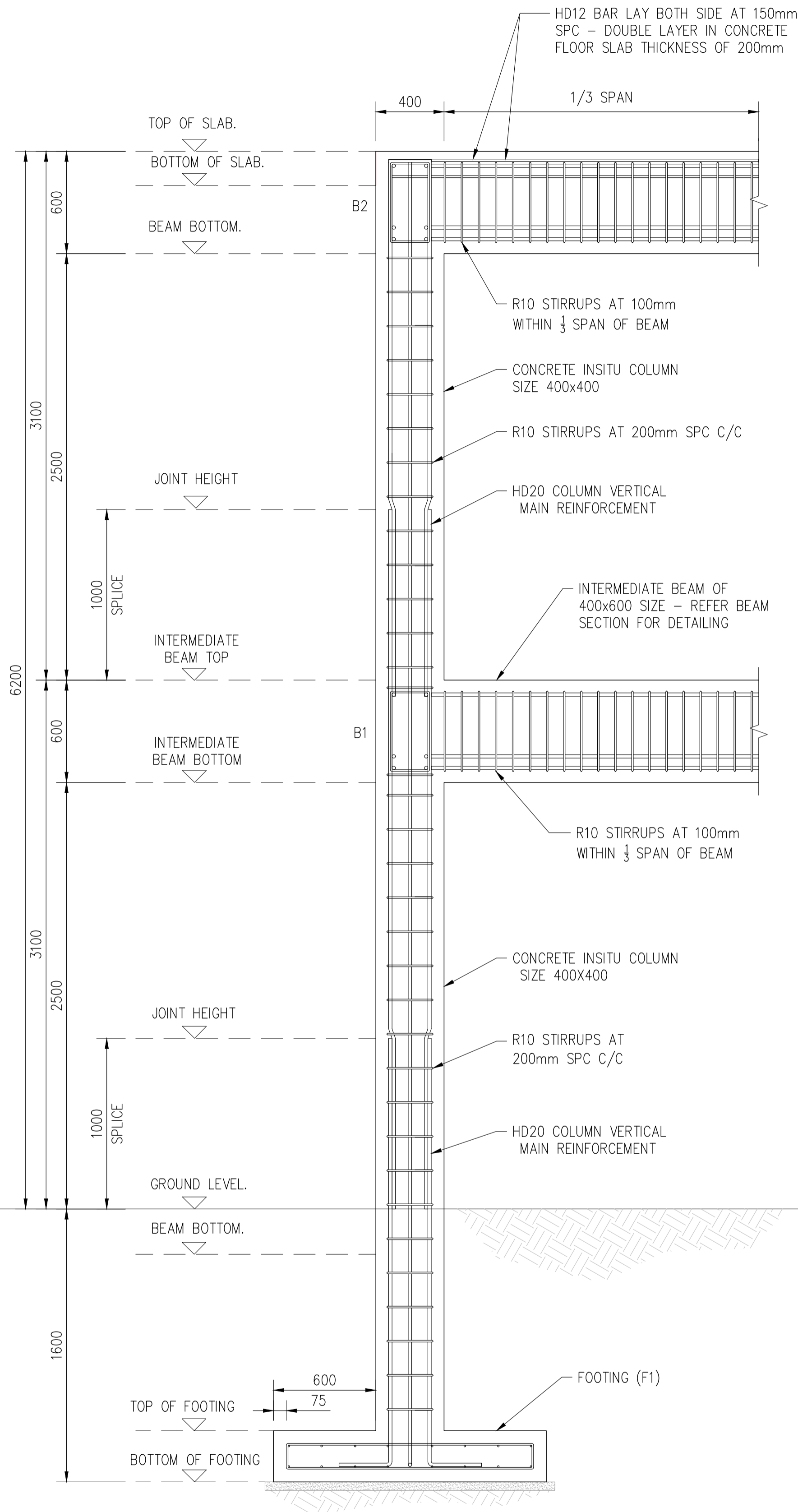
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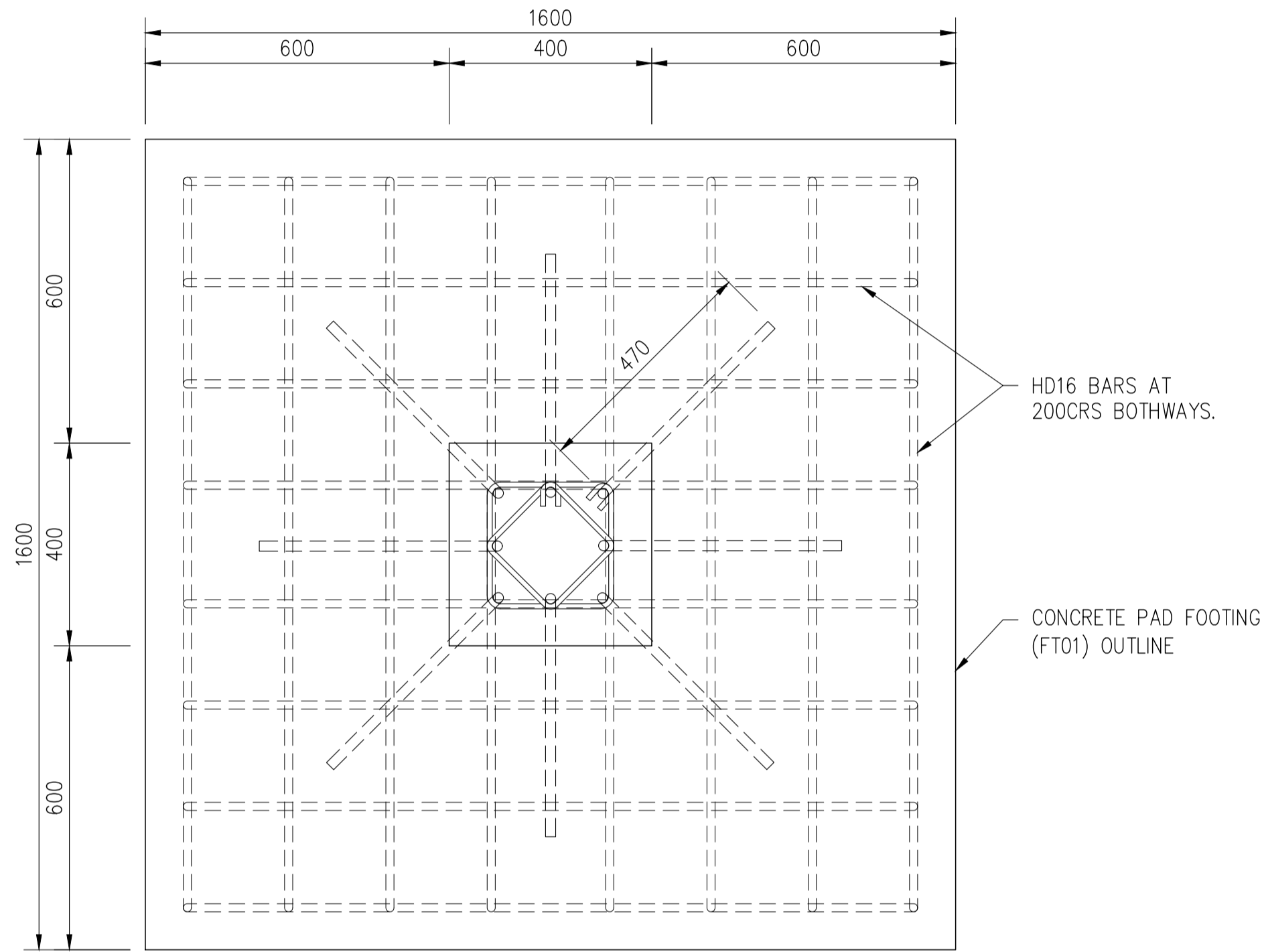
PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

TITLE: **GALLERY DETAILS**

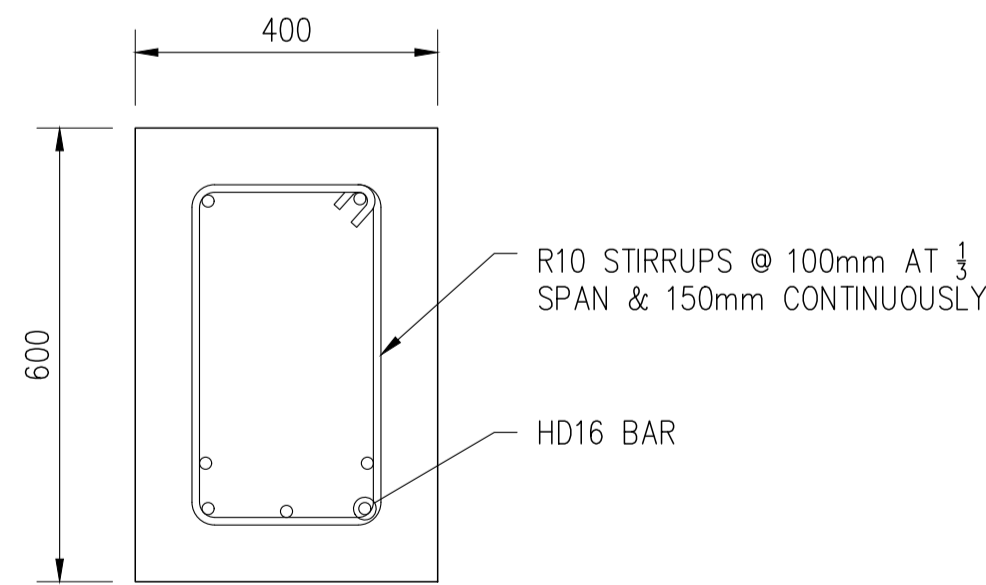
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| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-008 |



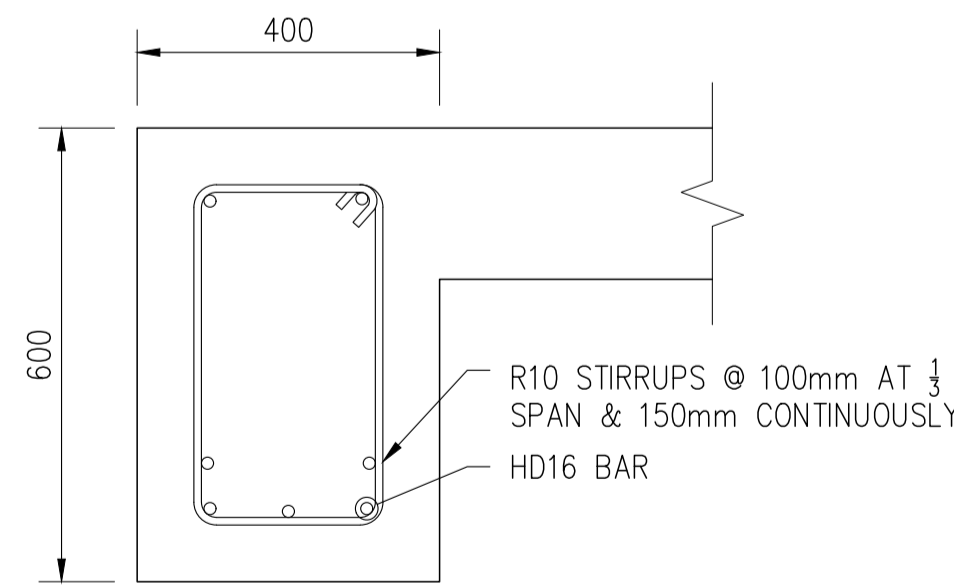
TYPICAL COLUMN STRUCTURAL DETAIL (C1/F1)
SCALE 1:20



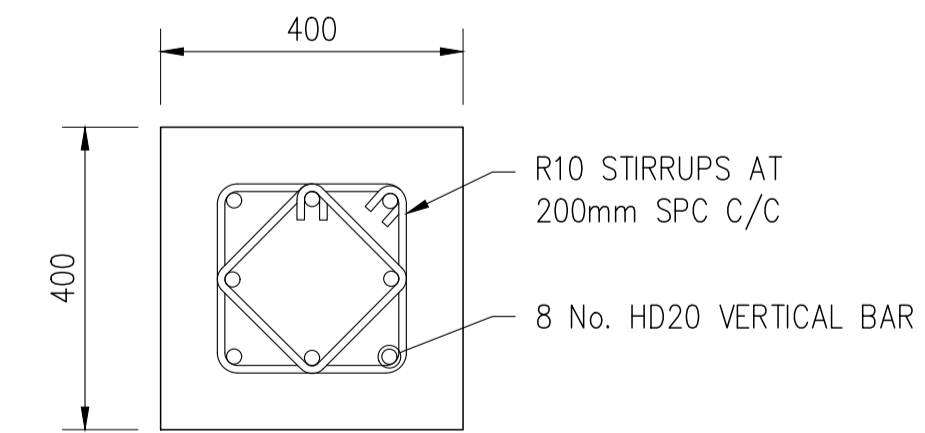
PAD FOOTING (F1) DETAIL
SCALE 1:10



TYPICAL SECTION-B1
SCALE 1:10



TYPICAL SECTION-B2
SCALE 1:10

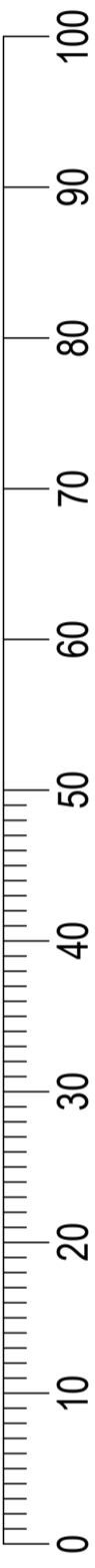


TYPICAL COLUMN SECTION (C1)
SCALE 1:10

NOTE:

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. BEFORE CONSTRUCTION, CONTRACTOR TO RE-CHECK EXISTING DIMENSION ONSITE.
3. CONTRACTOR TO SEEK DESIGNER APPROVAL IF CHANGES ARE MADE TO THE DRAWINGS.
4. ANT OTHER CHANGES MADE APART FROM THE DISIGNERS APPROVAL, CLIENT WILL BARE EXTRA COST.
5. CONTRACTOR IS TO REFER ANY ANOMALIES TO THE ENGINEER FOR INSTRUCTIONS.
6. THE CONTRACTOR TO CONFIRM ALL DIMENSIONS ON SITE INCLUDING FLOOR LEVEL PRIOR TO CONSTRUCTION.
7. THE DEPTH OF THE PAD FOOTINGS SHOWN ARE MINIMUM DIMENSIONS ONLY.
8. THE MINIMUM BEARING CAPACITY OF THE SUB-BASE AT THE UNDERSIDE OF THE PAD FOOTING SHALL BE 150KPa. THE DEPTH OF THE PAD FOOTINGS MAY BE INCREASED TO ALLOW THE FOOTINGS TO BE FOUNDED ON A FIRMER STRATA.
9. APPROVED FILL MATERIAL TO BE COMPACTED IN LAYERS NOT EXCEEDING 200mm. 95% COMPACTION SHALL BE ACHIEVED.
10. BACKFILL MATERIAL SHALL BE SELECTED OR APPROVED AS SPECIFIED OR DIRECTED BY THE ENGINEER. SELECTED BACKFILL SHALL BE COARSE OR FINE. FINE SELECTED BACKFILL SHALL CONSIST OF FINE GRANULAR SOIL, OR LOAM, FREE OF HARD NODULES, ROOTS, STUMPS OR OTHER PIECES OF ORGANIC MATERIAL, AND CONTAINING NO STONES LARGER THAN 10mm. COARSE SELECTED BACKFILL SHALL CONSIST OF ANY WELL GRADED MATERIAL CONTAINING NO ROOTS, STUMPS OR OTHER PIECES OF ORGANIC MATERIAL, AND CONTAINING NO STONES LARGER THAN 75mm.
11. UNO, ALL CONCRETE TO HAVE A MINIMUM CHARACTERISTIC COMPRESSIVE STRENGTH (f'c) OF 30MPa AT 28 DAYS.
12. ALL CONCRETE IS TO BE MECHANICALLY VIBRATED WHILE BEING PLACED.
13. CURE ALL CONCRETE, EXCEPT FOOTINGS, BY COVERING WITH PLASTIC SHEETING, BY APPLYING A SUITABLE CURING COMPOUND, BY KEEPING IT CONTINUALLY DAMP, OR BY OTHER SUITABLE MEANS, FOR AT LEAST SEVEN DAYS.
14. UNO, ALL REINFORCING STEEL TO BE GRADE 500 (fy=500MPa) WITH A MAXIMUM PERMISSIBLE FLEXURAL YIELD STRESS OF 500MPa AND MINIMUM ULTIMATE ELONGATION OF 15% AND MAXIMUM ELONGATION OF 22%.

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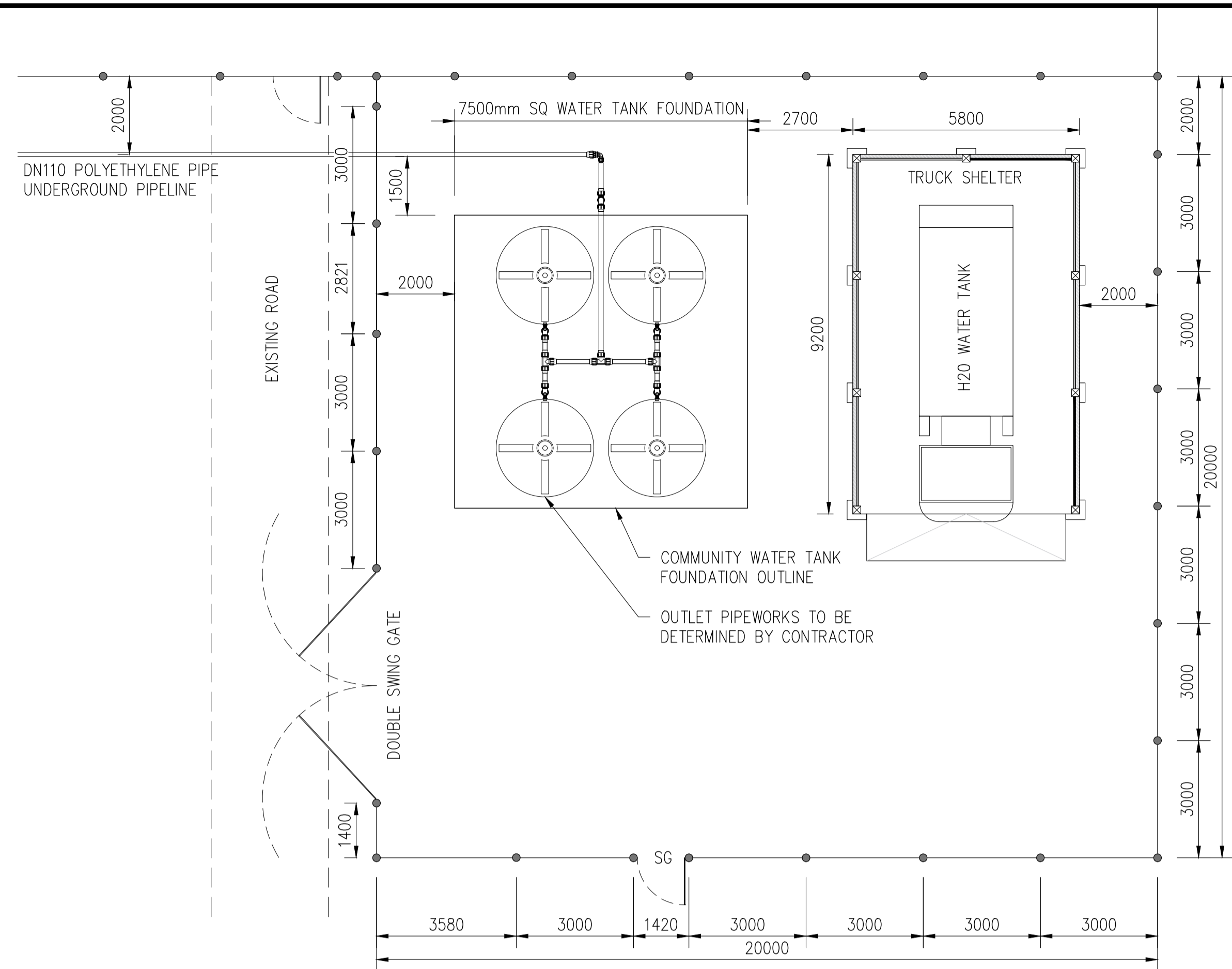
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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

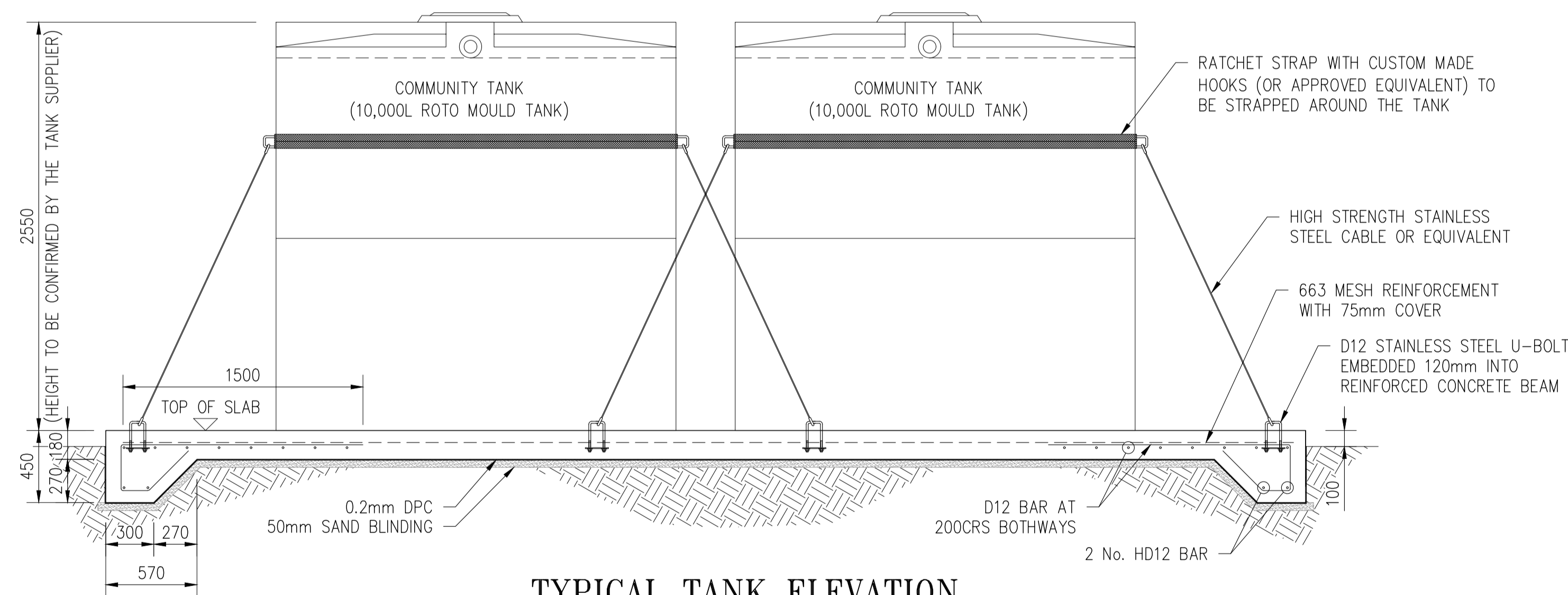
TITLE: **COLUMN STRUCTURAL DETAILS**
PAD FOOTING DETAILS
TYPICAL SECTIONS

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|-------------|-----------------|
| JOB NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING NO: | A-009 |



SITE PLAN—COMMUNITY FILLING POINT

SCALE 1:100



TYPICAL TANK ELEVATION

SCALE 1:25

NOTE:

1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. PIPE AND STRUCTURE LEVELS TO BE CONFIRMED ON SITE BY THE ENGINEER.
3. BEFORE CONSTRUCTION, CONTRACTOR TO RE-CHECK EXISTING DIMENSION ONSITE.
4. CONTRACTOR TO SEEK DESIGNER APPROVAL IF CHANGES ARE MADE TO THE DRAWINGS.
5. ALL PIPE CONNECTION IS TO BE CONFIRMED BY THE ENGINEER PRIOR TO PROCUREMENT.
6. ANY OTHER CHANGES MADE APART FROM THE DESIGNERS APPROVAL, CLIENT WILL BARE EXTRA COST.

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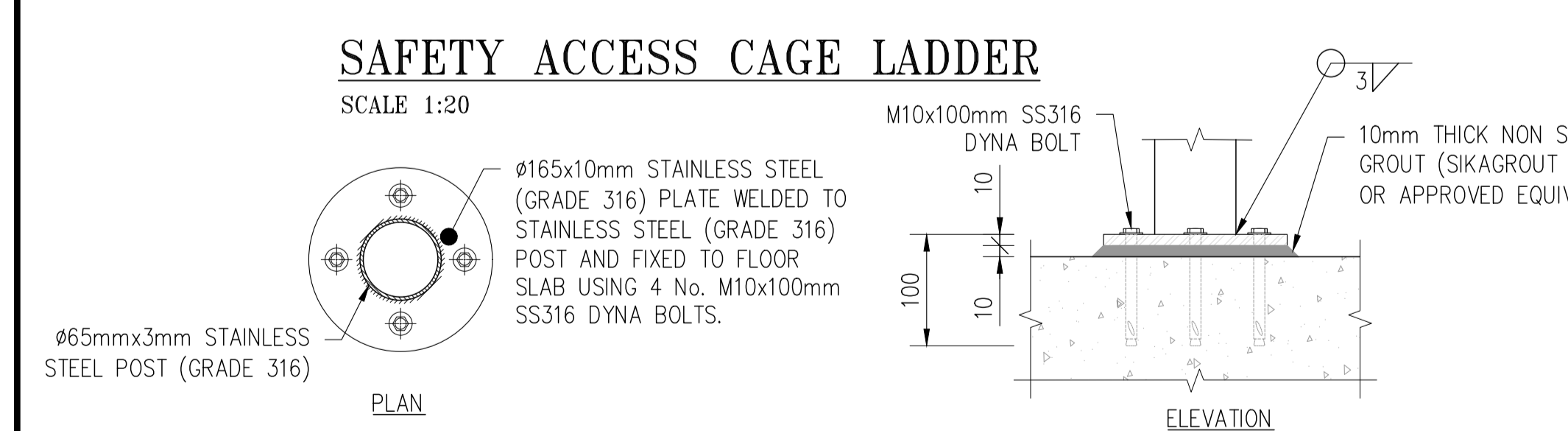
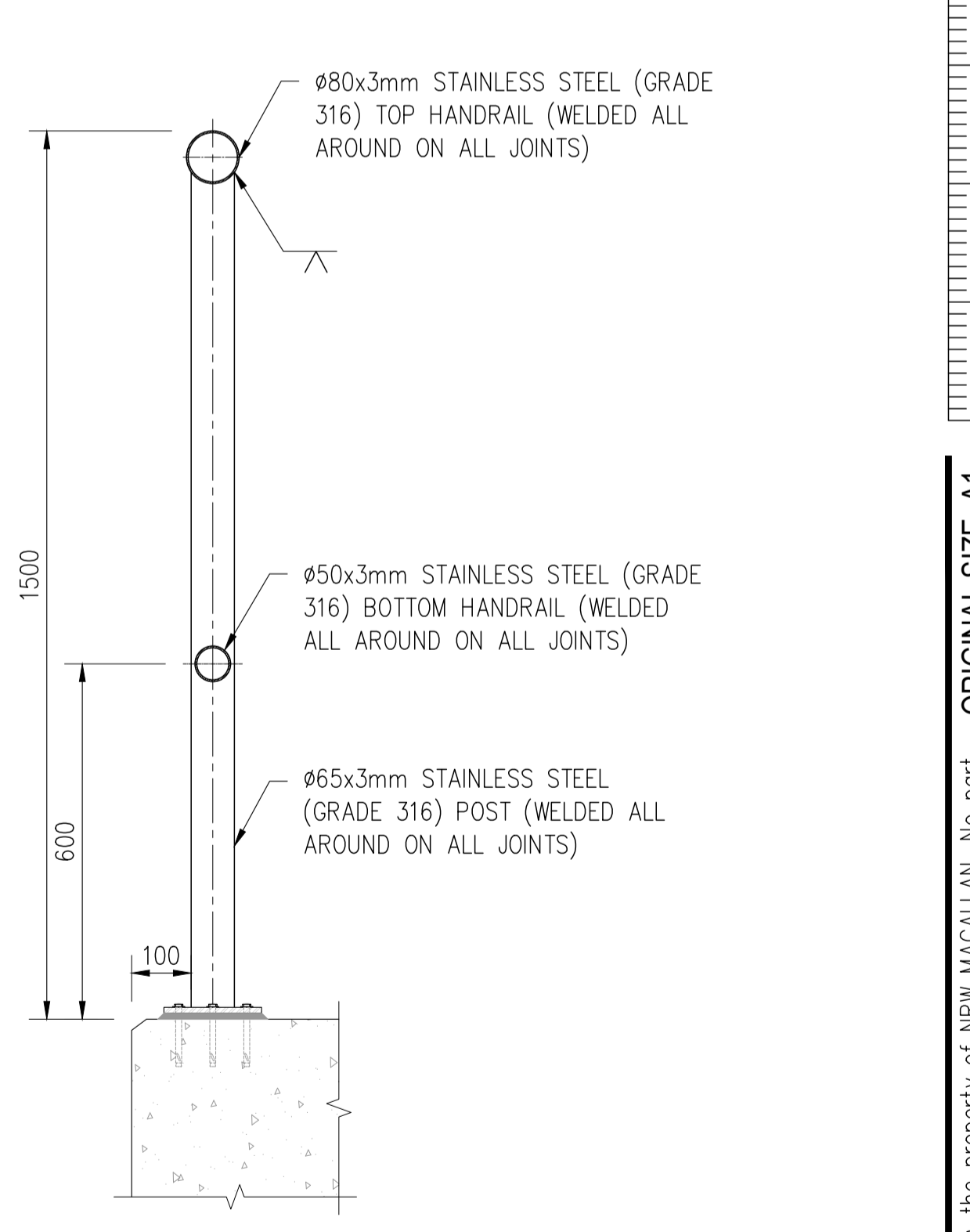
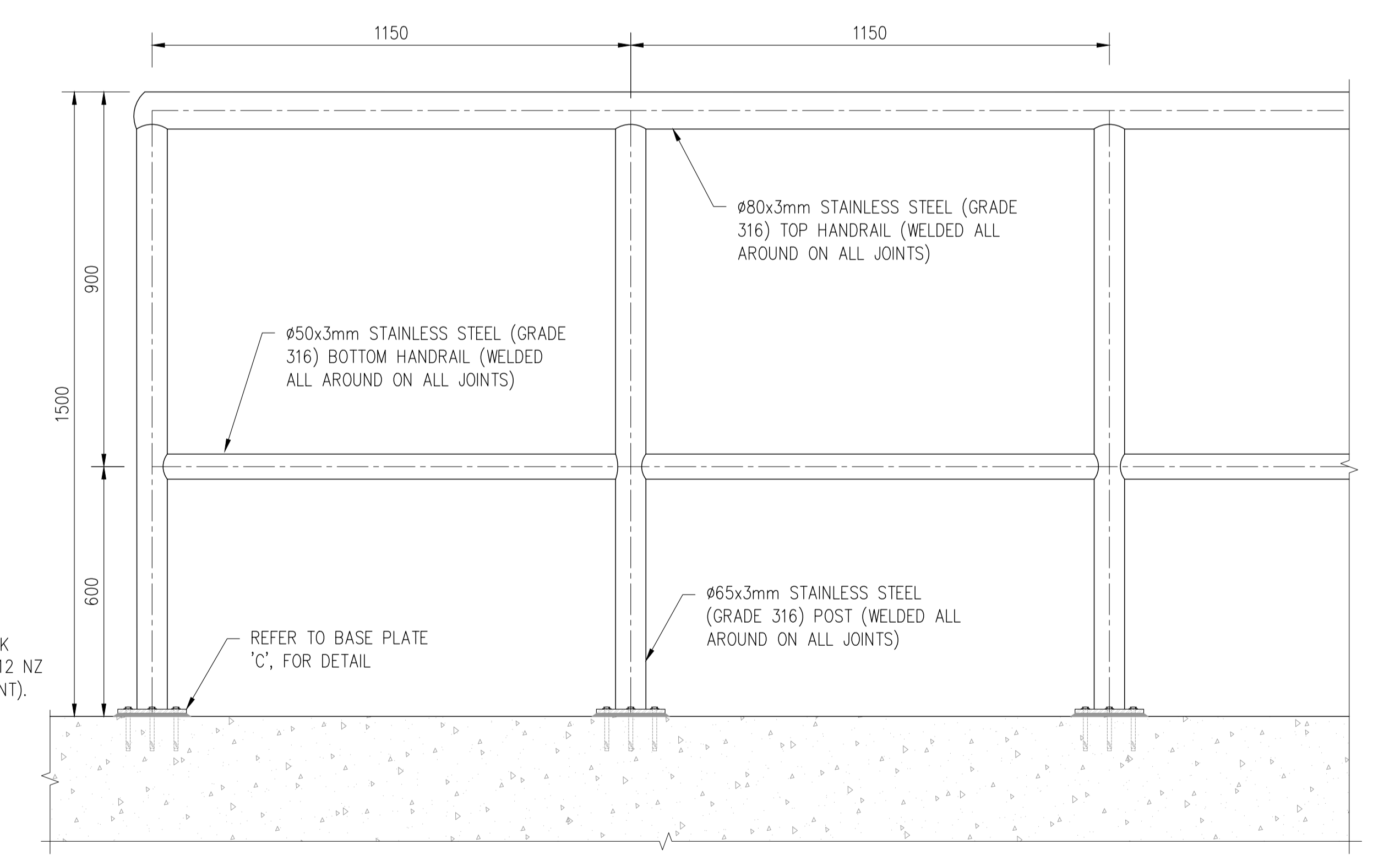
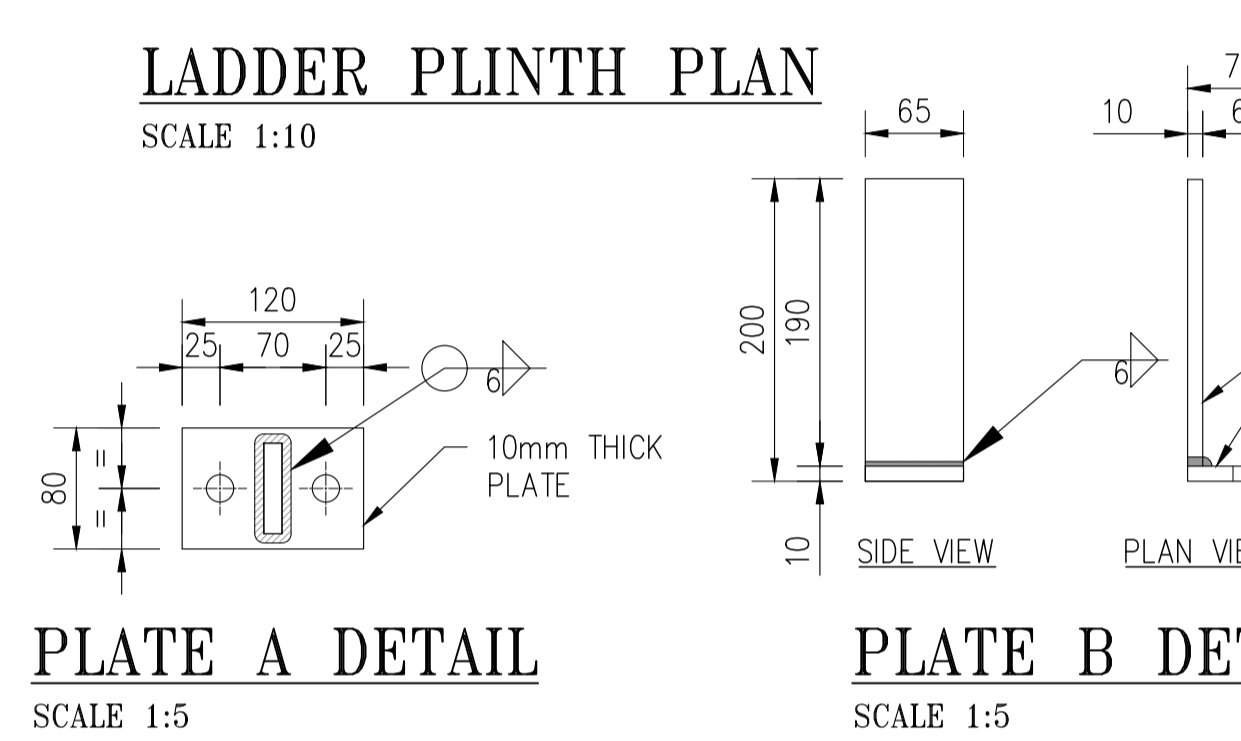
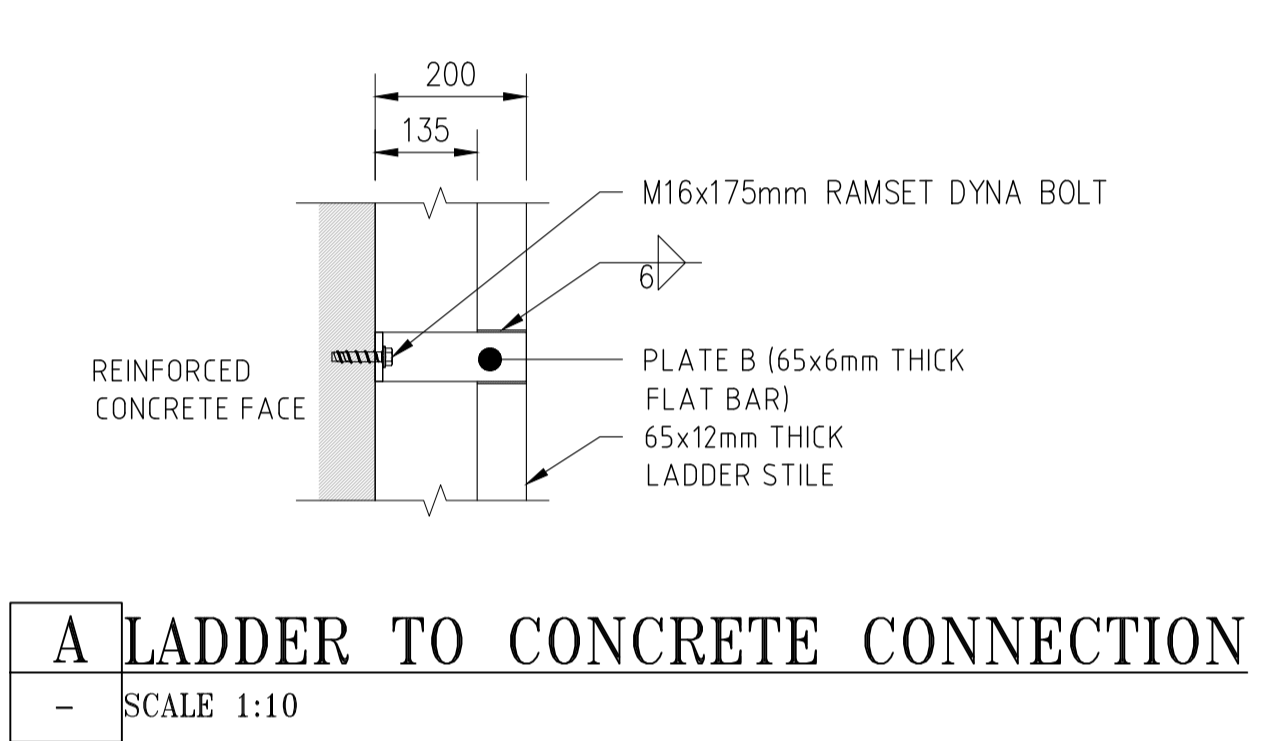
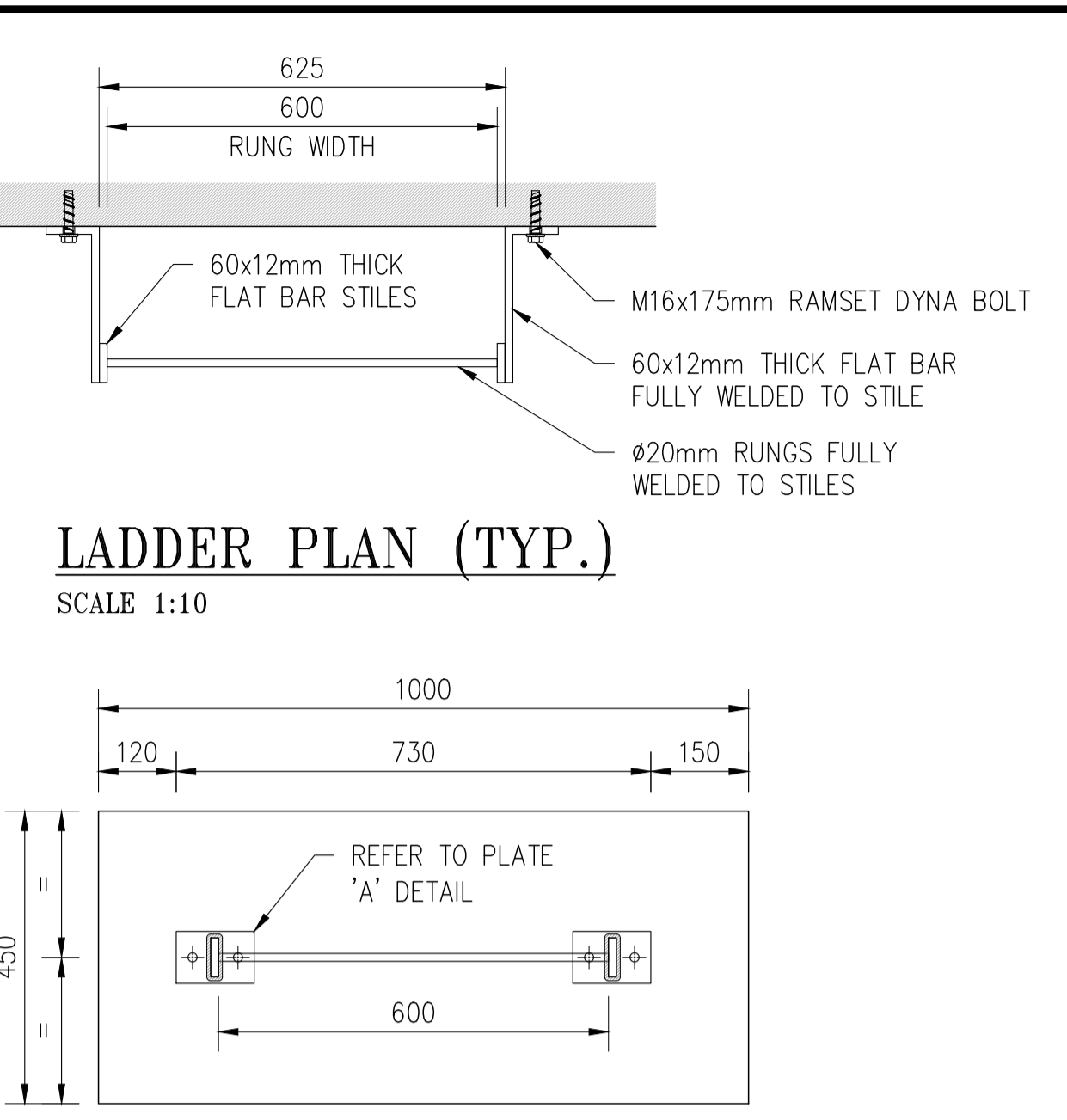
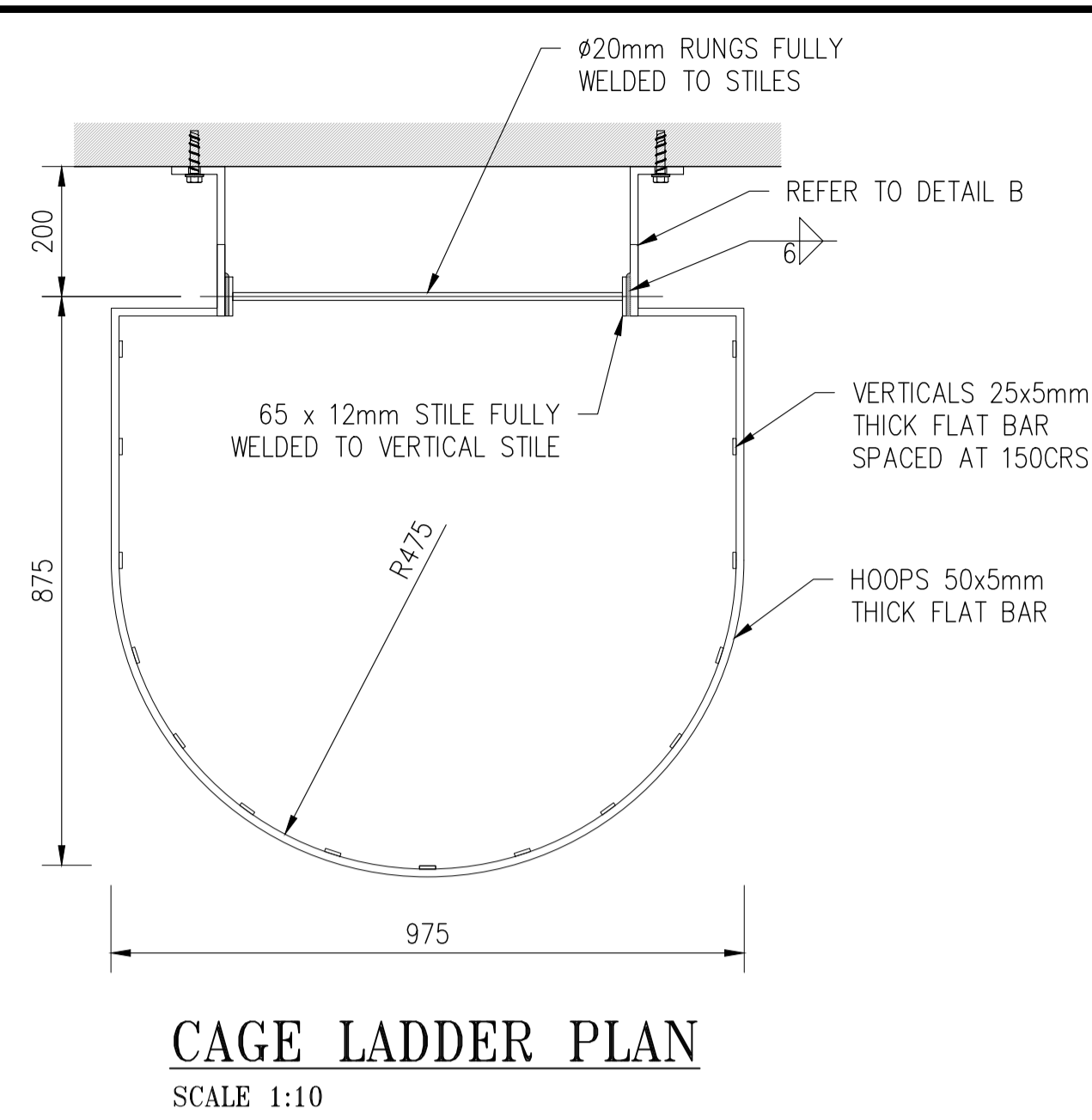
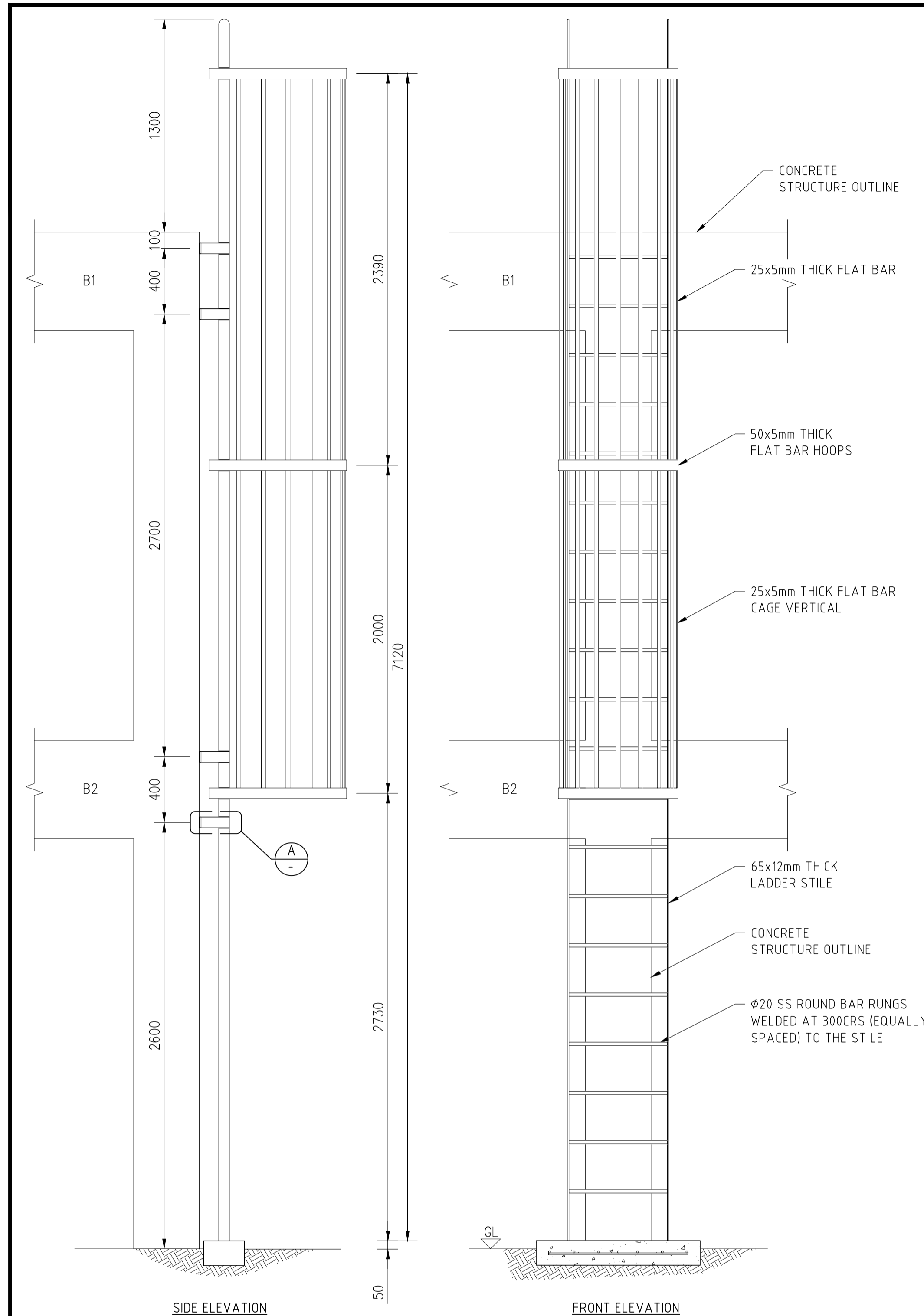
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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

TITLE: **COMMUNITY FILLING POINT SITE PLAN TYPICAL SECTIONS**

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|--------------|-----------------|
| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-010 |



- NOTE:**
1. ALL DIMENSION ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 2. THE CONTRACTOR IS TO CONFIRM ALL DIMENSIONS AND LEVELS ON SITE PRIOR TO CONSTRUCTION. ALL FIGURED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS.
 3. CONTRACTOR IS TO REFER ANY ANOMALIES TO THE ENGINEER FOR INSTRUCTIONS.
 3. CONTRACTOR TO SEEK DESIGNER APPROVAL IF CHANGES ARE MADE TO THE DRAWINGS.
 4. ANY CHANGES MADE APART FROM THE APPROVED DESIGN, CLIENT WILL BARE EXTRA COST.
 12. ALL STEELWORK AND FASTENERS TO BE STAINLESS STEEL GRADE 316 UNLESS NOTED OTHERWISE (UNO).
 13. ALL WELDS SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART BEING JOINED.

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PROJECT: MANAGING COASTAL AQUIFERS (MCAP), WOTJE, MARSHALL ISLAND

TITLE: **SAFETY ACCESS CAGE LADDER AND TYPICAL HANDRAIL ELEVATIONS, SECTIONS AND DETAILS**

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| JOB. NO: | 22307117 |
| REV. NO: | 0A |
| DRAWING. NO: | A-011 |