

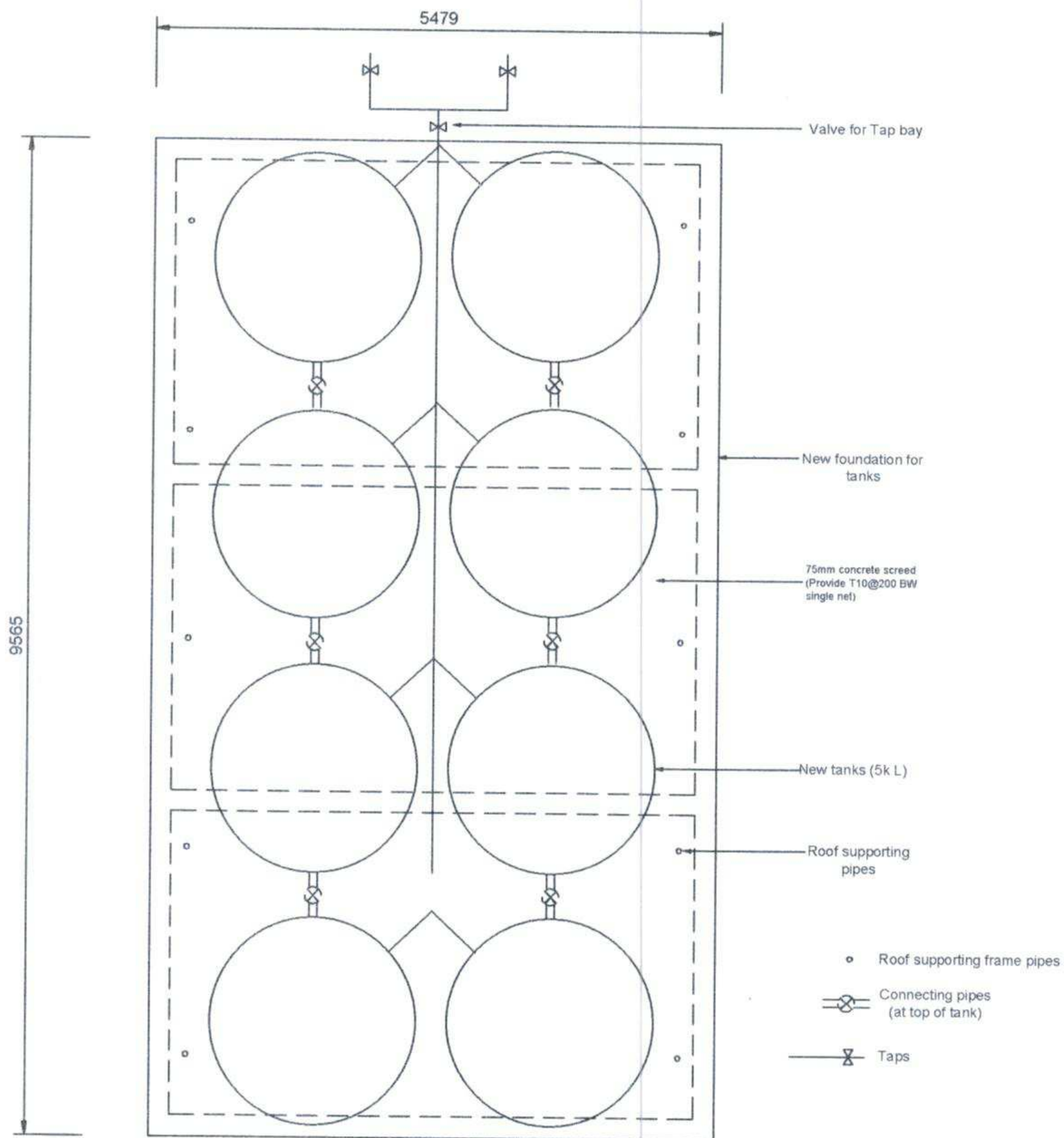
RAIN WATER COLLECTION SYSTEM

School site

N. Miladhoo

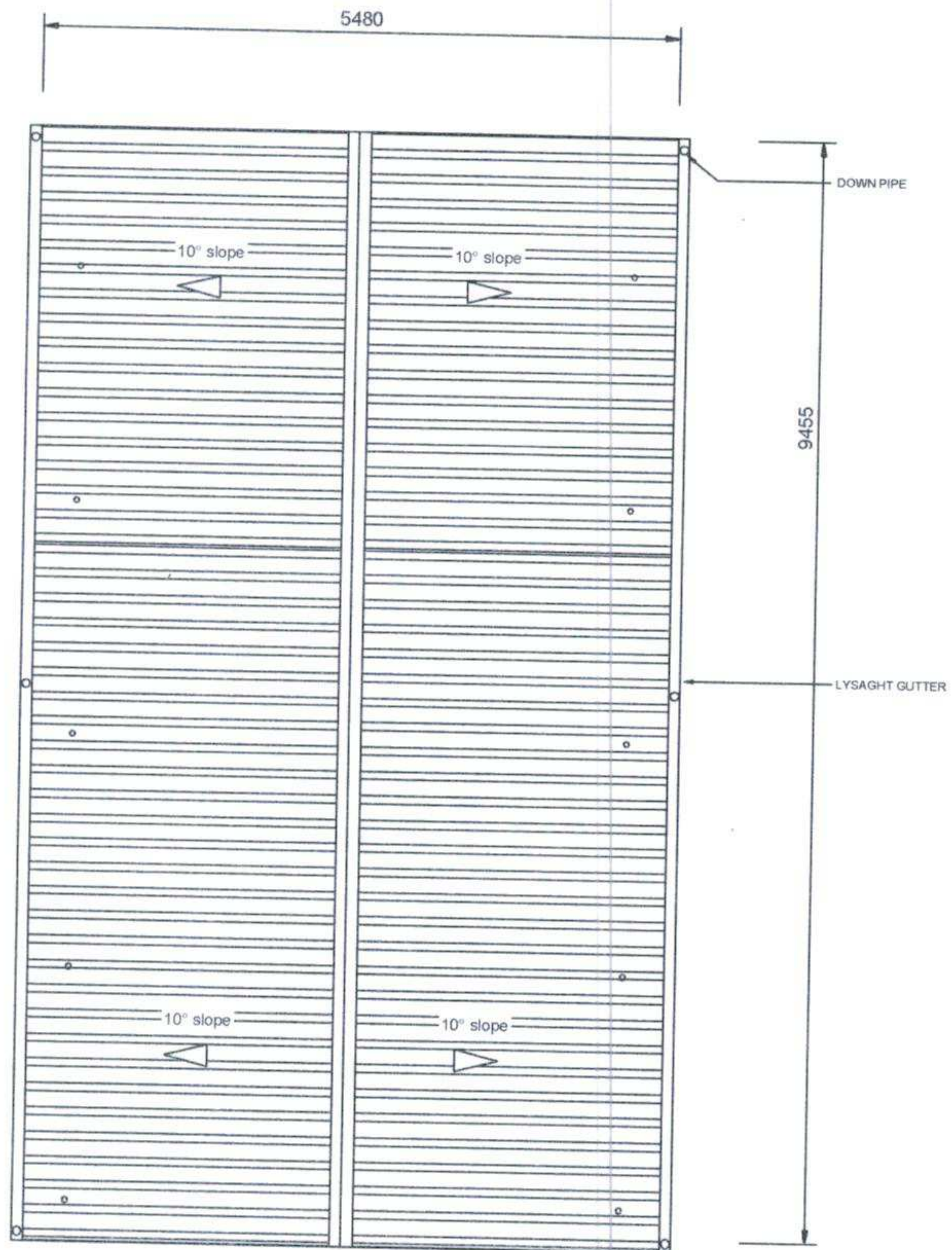
February 2018





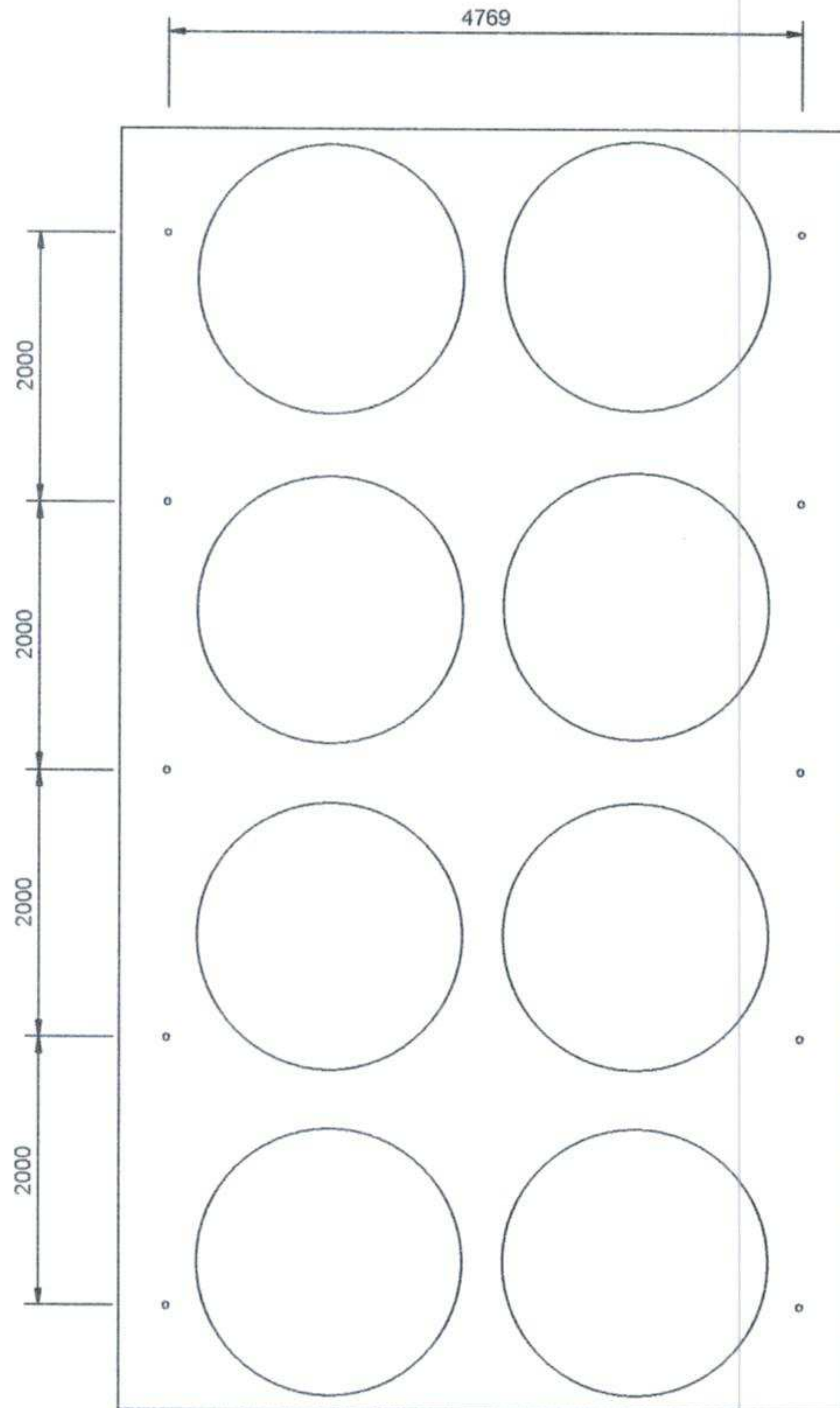
WATER TANK ARRANGEMENT - PLAN
SCHOOL SITE





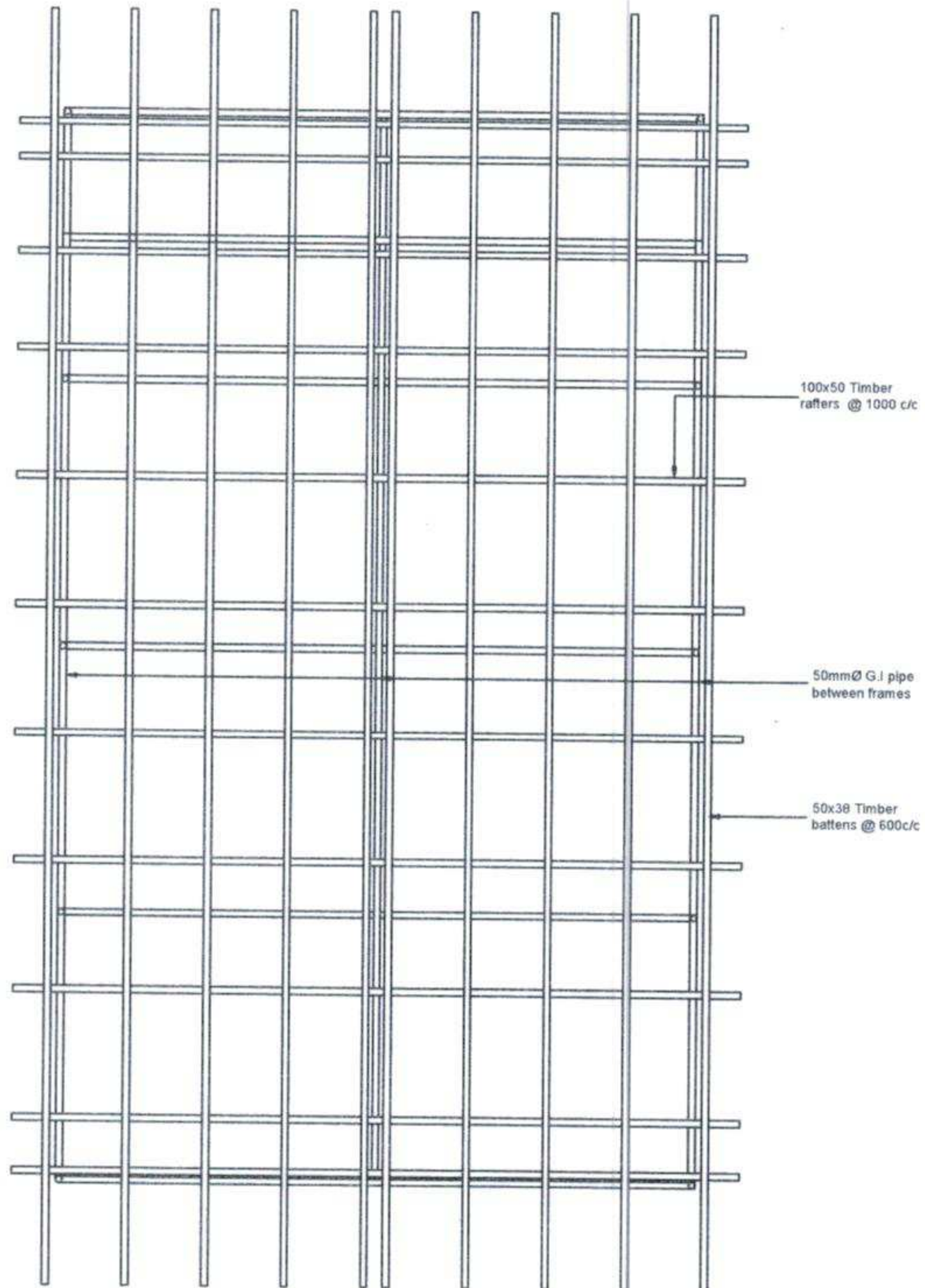
ROOF PLAN OVER WATER TANKS
SCHOOL SITE





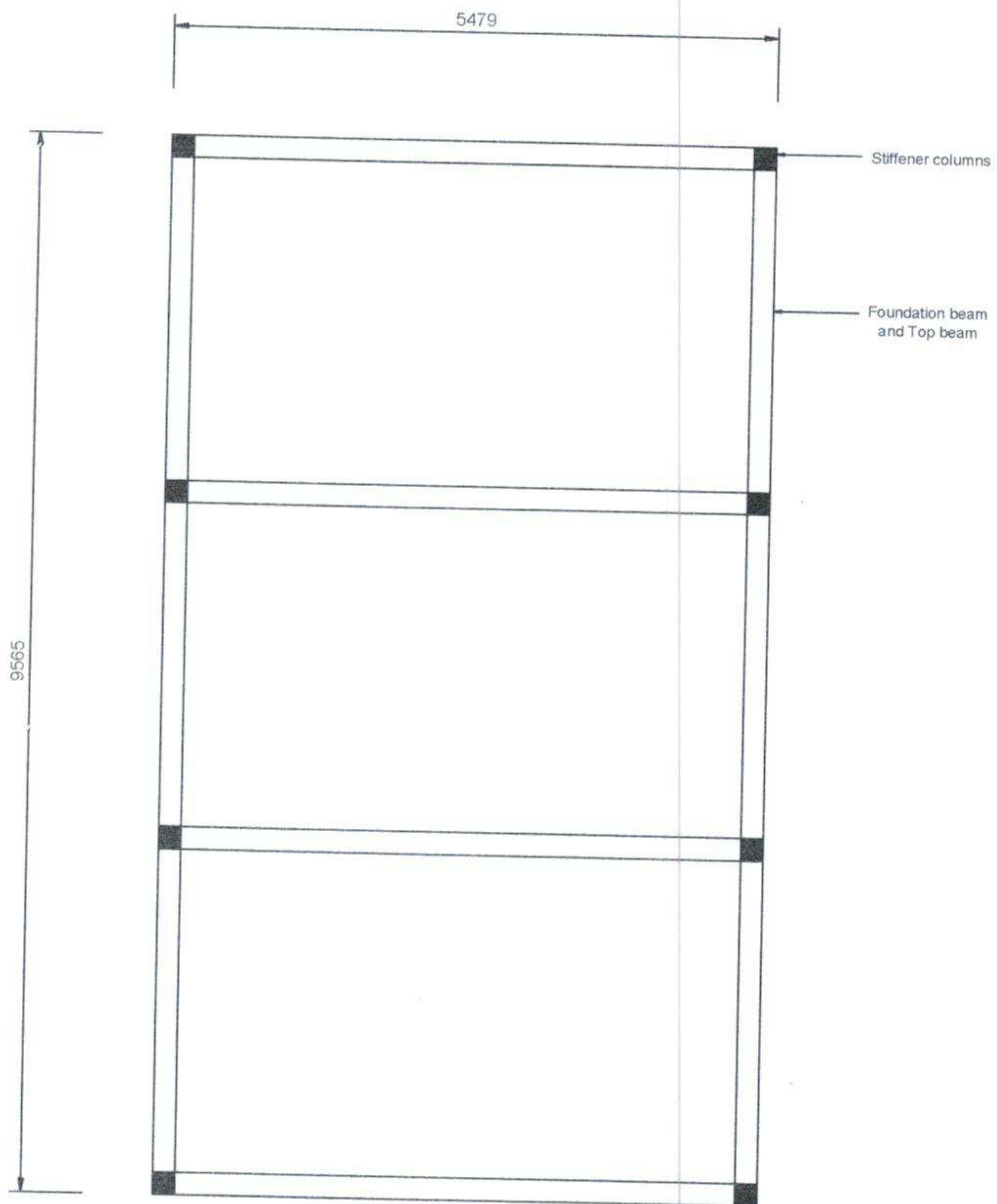
ROOF SUPPORTING PIPE ARRANGEMENT - PLAN
SCHOOL SITE





ROOF FRAMING PLAN
SCHOOL SITE

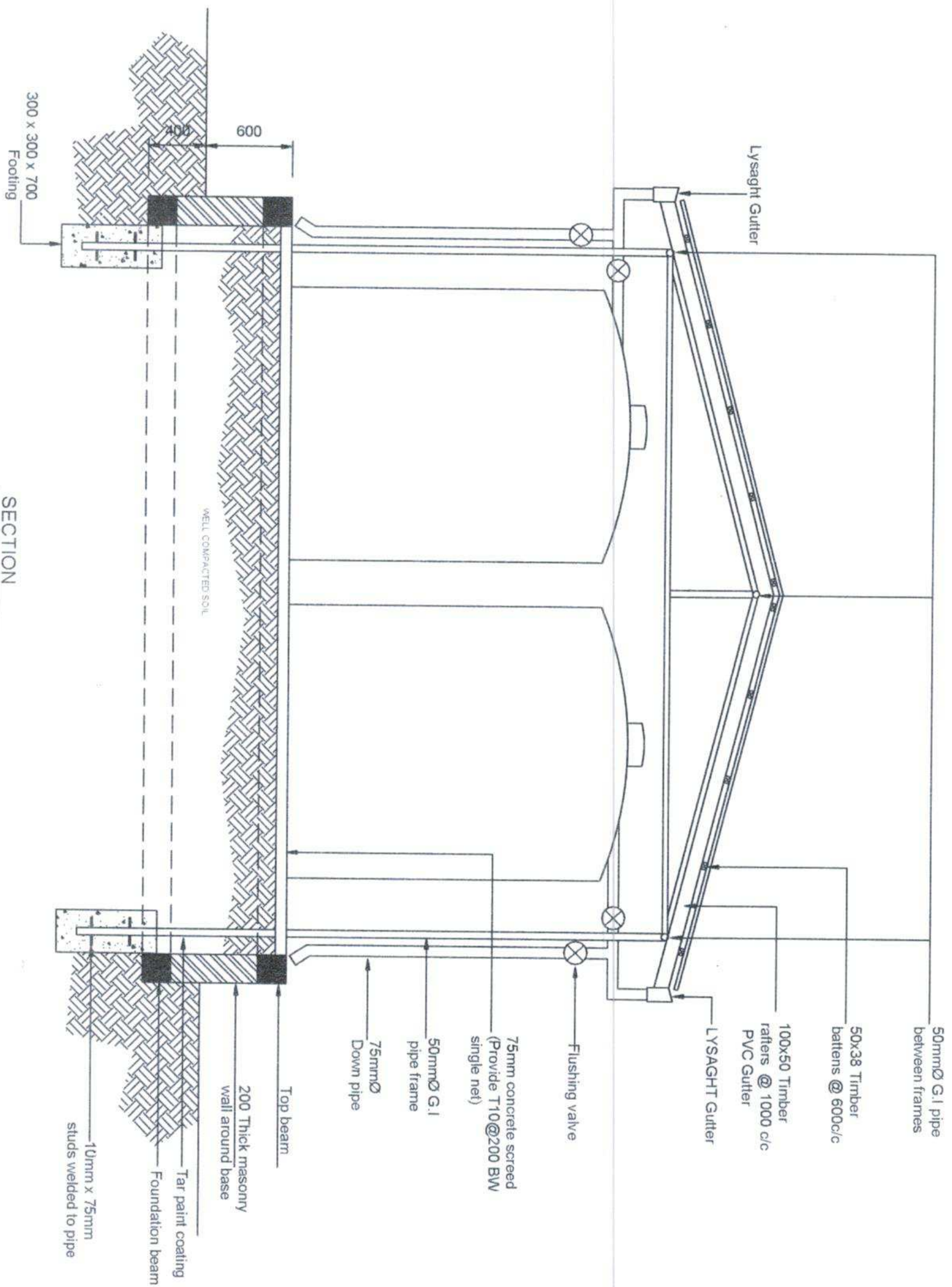


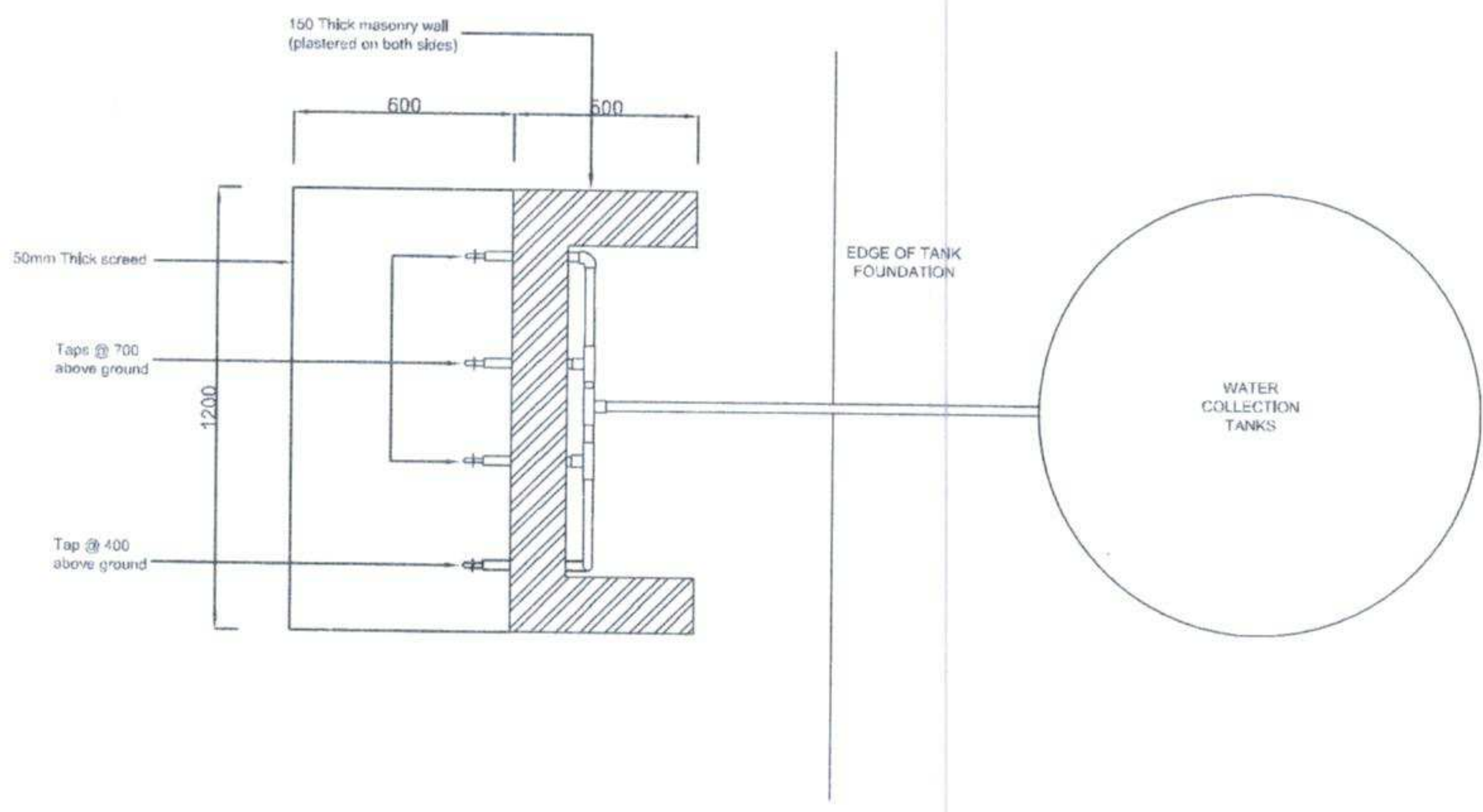


FOUNDATION PLAN
SCHOOL SITE



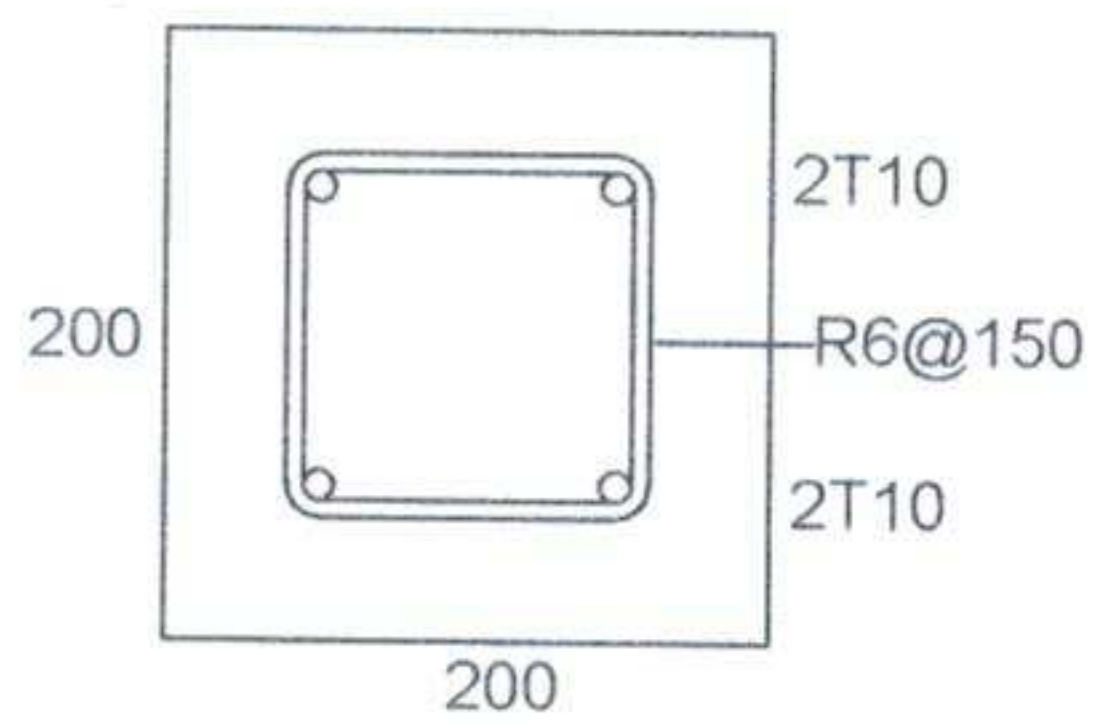
SECTION
SCHOOL SITE



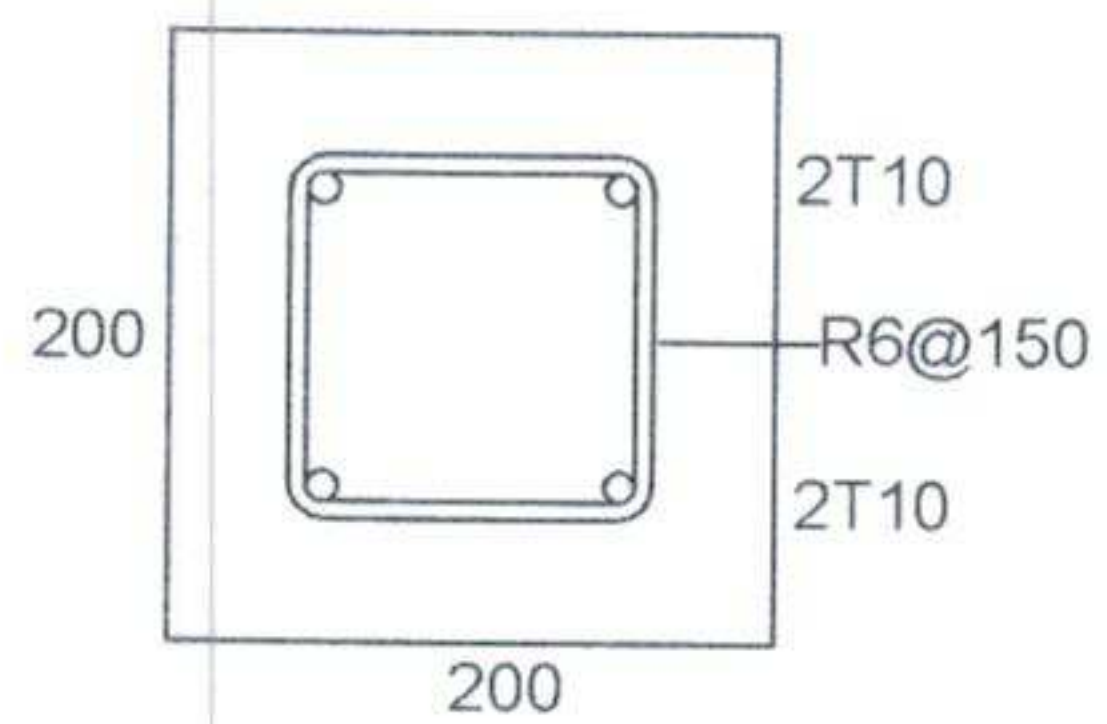


WATER DISTRIBUTION TAPPING STATION
PLAN

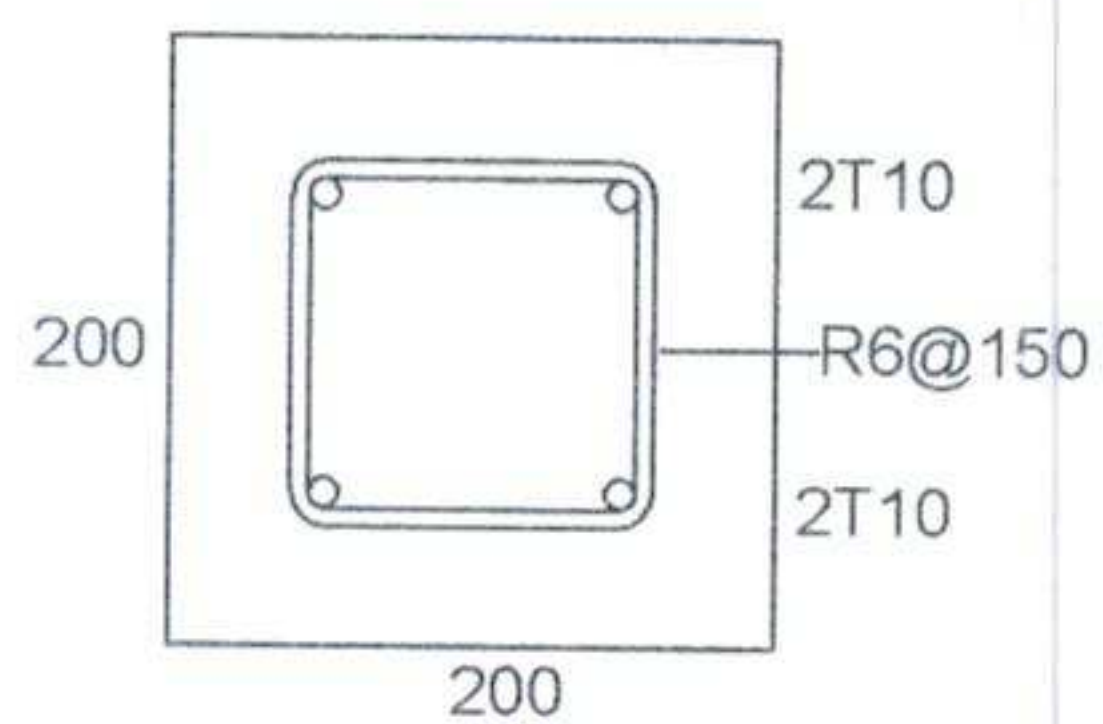




STIFFENER COLUMNS

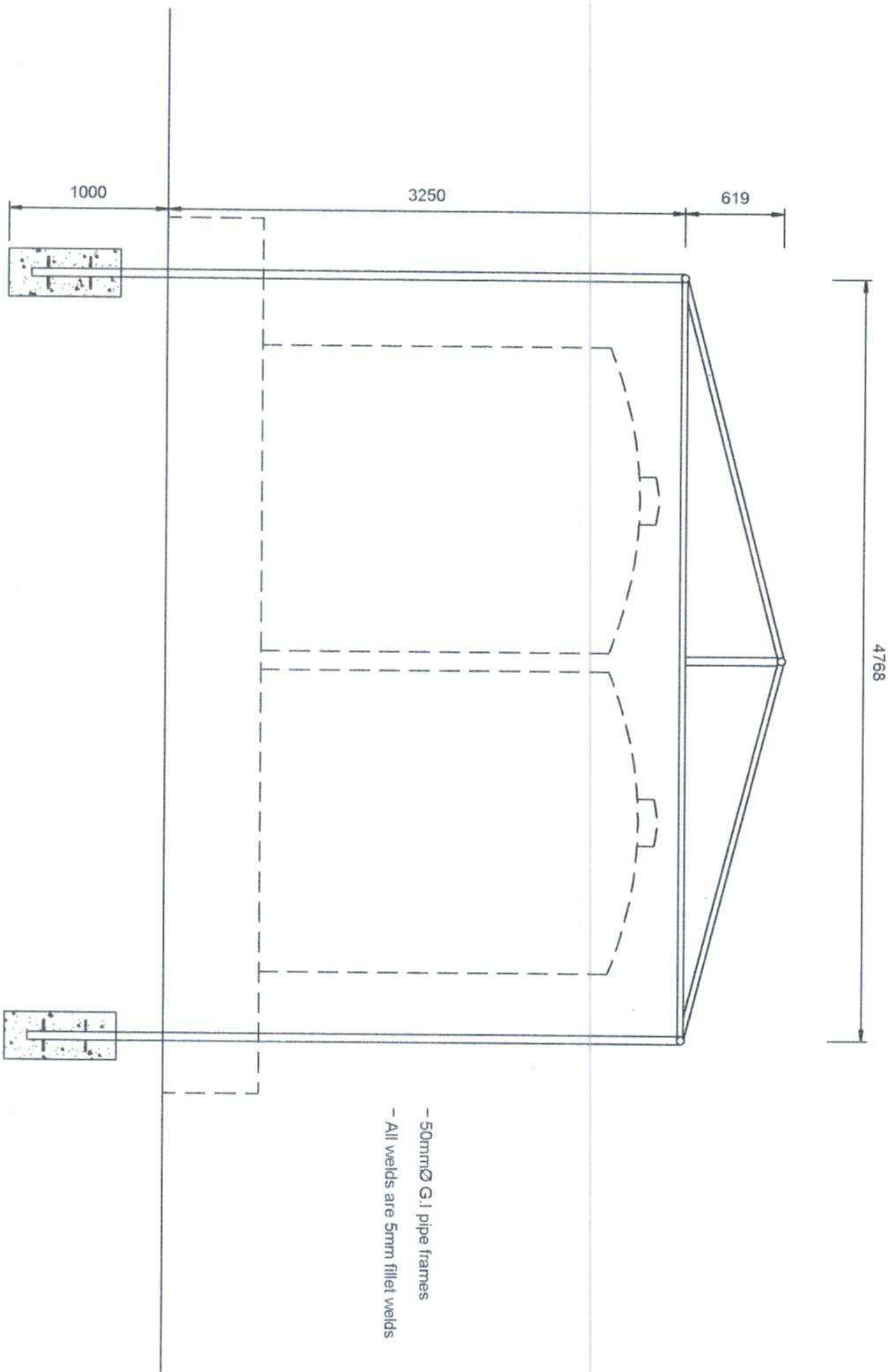


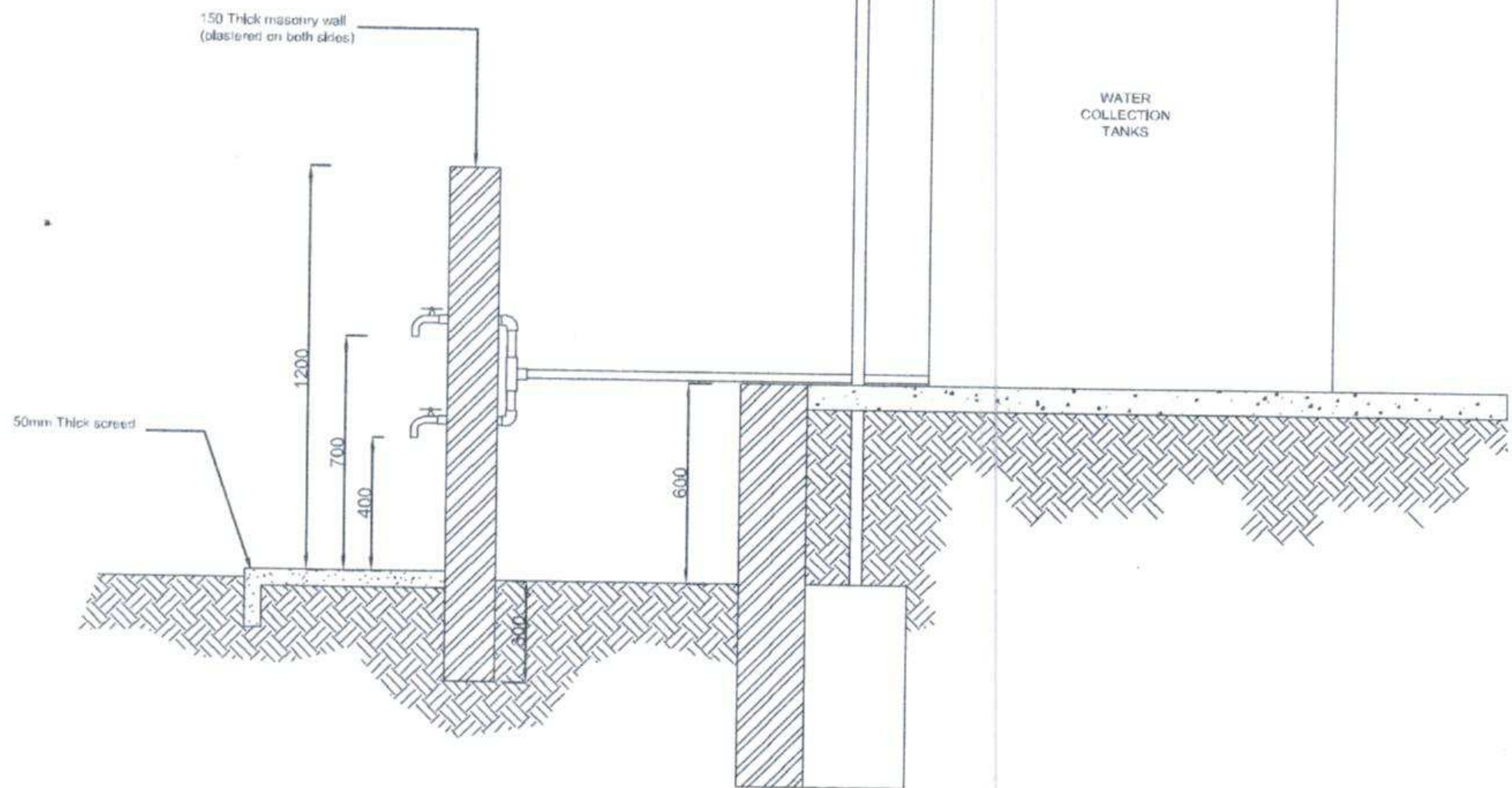
FOUNDATION BEAM



TOP BEAM







WATER DISTRIBUTION TAPPING STATION
SECTION



CONSTRUCTION OF WATER COLLECTION FACILITY - N.MILADHOO
SUMMARY SHEET

| Bill No | Item | Amount |
|-------------|------------------------|--------|
| 1 | Preliminaries | |
| 2 | Site clearance | |
| 3 | Earth works | |
| 4 | Concrete works | |
| 5 | Masonry works | |
| 6 | Plastering works | |
| 7 | Roofing works | |
| 8 | Structural steel works | |
| 9 | Plumbing works | |
| 10 | Others | |
| Sub Total | | |
| GST 6% | | |
| GRAND TOTAL | | |



CONSTRUCTION OF RAIN WATER HARVESTING FACILITY - N.MILADHOO
Bill of Quantities

| No | Item | Unit | Quantity | Rate | Amount |
|----------|--|--------|----------|------|--------|
| 1 | PRELIMINARIES | | | | |
| 1.1 | Mobilization to site | LS | 1 | | - |
| 1.2 | Site management cost including set up of temporary services for contractor's services as maybe necessary | Months | | | - |
| 1.3 | Setup sign board on site | LS | 1 | | - |
| 1.4 | Clean up site upon completion of works | LS | 1 | | - |
| 1.5 | Demobilization | LS | 1 | | - |
| 2 | SITE CLEARANCE | | | | |
| 2.1 | Allow for all site clean up work including relocation of any existing material to waste yard of island | LS | 1 | | - |
| 3 | EARTH WORKS | | | | |
| | <i>Youth center site</i> | | | | |
| 3.1 | Excavation work for perimeter foundation wall | m3 | 4.94 | | - |
| 3.2 | Excavation for pole footings | m3 | 1.09 | | - |
| 3.3 | Filling of foundation pad with soil | m3 | 47.35 | | - |
| 3.4 | Levelling of filled soil to cast slab | m2 | 78.26 | | - |
| | <i>School site</i> | | | | |
| 3.5 | Excavation work for perimeter foundation wall | m3 | 3.16 | | - |
| 3.6 | Excavation for pole footings | m3 | 0.73 | | - |
| 3.7 | Filling of foundation pad with soil | m3 | 33.98 | | - |
| 3.8 | Levelling of filled soil to cast slab | m2 | 46.55 | | - |
| 4 | CONCRETE WORKS | | | | |
| | <i>Youth center site</i> | | | | |
| 4.1 | Casting of 75mm concrete screed over compacted sand. Rate shall include provision of damp proof membrane, provision of cover blocks and provision of reinforcement | m3 | 6.50 | | - |
| 4.2 | Casting of concrete footings for shed columns | m3 | 0.76 | | - |
| 4.3 | Casting of Foundation beam | m3 | 2.49 | | - |
| 4.4 | Casting of Top beam | m3 | 2.49 | | - |
| 4.5 | Casting of concrete stiffener columns | m3 | 0.29 | | - |
| | <i>School site</i> | | | | |
| 4.6 | Casting of 75mm concrete screed over compacted sand. Rate shall include provision of damp proof membrane, provision of cover blocks and provision of reinforcement | m3 | 3.93 | | - |
| 4.7 | Casting of concrete footings for shed columns | m3 | 0.76 | | - |



| | | | | | |
|--------------|---|----|-------|--|---|
| | School site | | | | |
| 8.4 | Fabricate and install roof supporting frames made from 50mm G.I pipes. Rate shall include all cuts, welds and applying oxide coating on the welds | m | 32.86 | | - |
| 8.5 | Fixing 50mm G.I pipes between pipes at roof level to provide overall support | m | 47.85 | | - |
| 8.6 | Welding of studs to base of pipes | LS | 1 | | - |
| 9 | PLUMBING WORKS | | | | |
| | Youth center site | | | | |
| 9.1 | Provide connection from gutter to collection rank. Rate shall include all necessary pipes, bends, fittings and valves and others as maybe required. | LS | 1 | | - |
| 9.2 | Provide 5000 L tank to site and install as shown on drawing | No | 12 | | - |
| 9.3 | Provide 75mm downpipe for roof including fittings and valves | No | 8 | | - |
| | School site | | | | |
| 9.4 | Provide connection from gutter to collection rank. Rate shall include all necessary pipes, bends, fittings and valves and others as maybe required. | LS | 1 | | - |
| 9.5 | Provide 5000 L tank to site and install as shown on drawing | No | 8 | | - |
| 9.6 | Provide 75mm downpipe for roof including fittings and valves | No | 6 | | - |
| 10 | OTHERS | | | | |
| | Youth center site | | | | |
| 10.1 | Applying paint coating on all steel members including tar paint for surfaces below ground level | LS | 1 | | - |
| 10.2 | Setting up water tapping station as per drawing and detail given. Valve should be provided | LS | 1 | | - |
| | School site | | | | |
| 10.3 | Applying paint coating on all steel members including tar paint for surfaces below ground level | LS | 1 | | - |
| 10.4 | Setting up water tapping station as per drawing and detail given. Valve should be provided | LS | 1 | | - |
| TOTAL | | | | | - |



| | | | | | |
|------|---|----|--------|--|---|
| 4.8 | Casting of Foundation beam | m3 | 1.58 | | - |
| 4.9 | Casting of Top beam | m3 | 1.58 | | - |
| 4.10 | Casting of concrete stiffener columns | m3 | 0.19 | | - |
| 5 | MASONRY WORKS | | | | |
| | <i>Youth center site</i> | | | | |
| 5.1 | 1000mm high wall for perimeter foundation wall using solid blocks | m | 41.78 | | - |
| | <i>School site</i> | | | | |
| 5.2 | 1000mm high wall for perimeter foundation wall using sold blocks | m | 29.29 | | - |
| 6 | PLASTERING WORKS | | | | |
| | <i>Youth center site</i> | | | | |
| 6.1 | 25mm plastering on perimeter foundation wall | m2 | 25.28 | | - |
| | <i>School site</i> | | | | |
| 6.2 | 25mm plastering on perimeter foundation wall | m2 | 17.73 | | - |
| 7 | ROOFING WORKS | | | | |
| | <i>Youth center site</i> | | | | |
| 7.1 | Lysaght roofing sheet for collection bay area. Rate shall include all necessary laps, fastening, fixtures and sealing of joints | m2 | 89.45 | | - |
| 7.2 | Timber rafters - 100 x 50mm. Rate shall include for all fixing and joints | m | 107.58 | | - |
| 7.3 | Timber battens - 50 x 38mm. Rate shall include for all fixing and joints. | m | 158.08 | | - |
| 7.4 | Installation of lysaght gutter on both sides of roof | m | 31.62 | | - |
| | <i>School site</i> | | | | |
| 7.5 | Lysaght roofing sheet for collection bay area. Rate shall include all necessary laps, fastening, fixtures and sealing of joints | m2 | 53.84 | | - |
| 7.6 | Timber rafters - 100 x 50mm. Rate shall include for all fixing and joints | m | 62.29 | | - |
| 7.7 | Timber battens - 50 x 38mm. Rate shall include for all fixing and joints. | m | 95.65 | | - |
| 7.8 | Installation of lysaght gutter on both sides of roof | m | 19.13 | | - |
| 8 | STRUCTURAL STEEL WORKS | | | | |
| | <i>Youth center site</i> | | | | |
| 8.1 | Fabricate and install roof supoprting frames made from 50mm G.I pipes. Rate shall include all cuts, welds and applying oxide coating on the welds | m | 49.29 | | - |
| 8.2 | Fixing 50mm G.I pipes betweek pipes at roof level to provide overall support | m | 75.69 | | - |
| 8.3 | Welding of studs to base of pipes | LS | 1 | | - |

