

GEOTECHNICAL NOTES

1.0 GENERAL

- 1.1 GENERAL NOTES SHALL REFER TO DRAWING SET/263/1/001.
- 1.2 ALL GEOTECHNICAL WORKS SHALL COMPLY WITH GS SECTION 26.
- 1.3 PERMANENT SOIL SLOPE SHALL BE PROTECTED AS SHOWN IN DRAWING.
- 1.4 PERMANENT DRAINAGE SYSTEM MAY BE REVISED AS REQUIRED TO SUIT THE ACTUAL SITE CONDITION.
- 1.5 PREPARATIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO AVOID DISCHARGE OF EXCAVATED MATERIAL INTO PUBLIC STORMWATER DRAIN AND FLOWING OF SURFACE WATER FROM THE LOT ONTO THE ADJACENT ROAD.
- 1.6 EXTREME CARE SHALL BE TAKEN BY THE CONTRACTOR WHEN WORKING IN THE VICINITY OF THE REDEVELOPMENT IN ORDER NOT TO DISTURB, INTERFERE WITH OR CAUSE DAMAGE TO THE ADJOINING PROPERTIES AND UTILITIES.
- 1.7 FILLING WORKS SHALL NOT BE COMMENCED UNTIL ALL DISCHARGES HAVE BEEN PROPERLY DIVERGED AWAY FROM THE FILL AREA.
- 1.8 ALL NON-GRAVULAR MATERIAL INCLUDING PLANTS, RUBBER, ARTIFICIAL MATERIAL AND ALIQUAN CLAY SHALL BE REMOVED PRIOR TO FILLING WORKS.

2.0 PROTECTION OF EARTHWORKS AGAINST HEAVY RAINFALL

- 2.1 SURFACE WATER FLOWING INTO THE SITE FROM UPHILL SHALL BE INTERCEPTED AND CONDUCTED FROM THE SITE TO AN INDICATED SAFE DISCHARGE POINT. AT EACH INTERSECTION AND CHANGE IN DIRECTION OF SURFACE DRAINAGE CHANNELS AN ACCESSIBLE CATCHPIPS SHALL BE PROVIDED. ALL DRAINAGE WORKS SHALL BE LEFT CLEAR OF DEBRIS.
- 2.2 WHERE PARTIALLY COMPLETED DRAINAGE WORKS DISCHARGE WITHIN THE SITE A TEMPORARY CONDUIT SHALL BE PROVIDED TO THE DISCHARGE POINT.
- 2.3 ALL EARTHWORKS PATTERNS SHALL BE GRADED FOR FILL, THE SURFACE SHOULD ALSO BE STAILED BY ROLLING OR OTHERWISE TO ENSURE RUN-OFF AND TO AVOID PONING.
- 2.4 DURING EXCAVATION A METHOD OF WORKING SHALL BE ADOPTED IN WHICH THE MINIMUM OF BARE SOIL IS EXPOSED AT ANY TIME. EXCAVATION TO FORM THE FINAL FACE SHALL BE FOLLOWED UP IMMEDIATELY WITH SURFACE PROTECTION AND DRAINAGE WORKS AND THE FACE PANEL SIZE SHALL BE SMALL ENOUGH TO PERMIT THIS.
- 2.5 TRENCHES ON OR ADJACENT TO SLOPES SHALL BE EXCAVATED WITH EXTREME CARE IN SHORT SECTIONS AT A TIME. PRECAUTIONS SHALL BE TAKEN TO PREVENT WATER ENTERING AND COLLECTING IN THE TRENCH.
- 2.6 SURFACE PROTECTION ON TEMPORARY BARE SOIL SLOPES WILL BE PROVIDED WHERE FOUND NECESSARY USING PLASTER SHEETS.
- 2.7 DRAINAGE WORKS SHALL BE KEPT CLEAR OF DEBRIS. EXCAVATION SHALL NOT BE LEFT OPEN ON OR ADJACENT TO A SLOPE.
- 2.8 A METHOD OF WORKING SHALL BE ADOPTED IN WHICH THE MINIMUM OF BARE SOIL IS EXPOSED SURFACE PROTECTION AND DRAINAGE WORKS AND THE FACE PANEL SIZE SHALL BE SMALL ENOUGH TO PERMIT THIS.
- 2.9 WHERE TEMPORARY BARE EARTH SLOPE FACES ARE UNAVOIDABLE THEY SHALL BE PROTECTED WITH SHEETING WELL-SECURED AGAINST WIND. WHERE SLOPE FACES ARE TO BE TEMPORARY EXPOSED FOR MORE THAN TWO WEEKS, TEMPORARY HARD SURFACING SHALL BE PROVIDED AND TEMPORARY DRAINS SHALL BE INSTALLED.
- 2.10 ALL EXCAVATION WORKS SHALL BE TO BE EXCAVATION DURING THE WET SEASON. THIS SHALL BE DONE WITH EXTREME CARE IN SHORT SECTIONS AT A TIME. PRECAUTIONS SHALL BE TAKEN TO PREVENT WATER ENTERING AND COLLECTING IN THE TRENCH.

3.0 COMPACTION OF FILL

- 3.1 ALL FILL SLOPES SHALL BE COMPACTED IN LAYERS NOT EXCEEDING 300mm THICK.
- 3.2 FOR FILLING OF SLOPE THE CONTRACTOR SHALL OBTAIN RECORD OF THE SLOPE PROFILE AND TRIM TO THE DESIGN PROFILE WHEN COMPACTION HAS BEEN COMPLETED.
- 3.3 FILLING MATERIAL SHALL BE FREE FROM UNSUITABLE MATERIAL INCLUDING ORGANIC MATERIAL, TOPSOIL, (OR THE SURFACE LAYER OF SOIL WHICH CAN SUPPORT VEGETATION) SLURRY, FERTILIZABLE MATERIAL, FROM WASTES OR LOSS, STUMPS AND OTHER DESTRUCTIVE SUBSTANCES. FILLING MATERIAL SHALL CONTAIN IN MATERIAL EXCEEDING 200mm IN SIZE.
- 3.4 THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE A MEANS OF SCREENING THE MATERIAL TO ELIMINATE OVER-SIZED STONES.
- 3.5 UNLESS OTHERWISE SPECIFIED THE BACKFILLING MATERIAL SHALL BE GENERAL FILLING MATERIAL PLACED IN LAYERS NOT EXCEEDING 300mm THICK.
- 3.6 THE INSITU DENSITY OF COMPACTION MATERIAL FORMING THE FILL SHALL NOT BE LESS THAN 95% OF THE MAXIMUM DRY DENSITY.
- 3.7 ALL COMPACTION TESTS RESULTS AND LOCATION PLANS SHOWING THE ACTUAL LOCATION OF PROCTOR AND SAND REPLACEMENT TESTS PERFORMED SHALL BE SUBMITTED TO THE SUPERVISION OF THE ENGINEER.
- 3.8 LABORATORY TEST SHOULD BE CARRIED OUT ON THE GENERAL COMPACTED FILL AND GENERAL SOIL TO DETERMINE THE CORRELATION OF THE FIELD AND LABORATORY TESTS. THE CORRELATION SHALL BE AND C = 0.99 AND GENERAL SOIL FILL NOT LESS THAN W = 3.5% AND C = 5 PERCENT (MINIMUM 3 SAMPLES)
- 3.9 SOIL-CEMENT SHALL CONSIST OF ORDINARY PORTLAND CEMENT (OPC), SAND AND INORGANIC SOIL IN THE PROPORTIONS 1:3:1.2 BY MASS.

4.0 FILLING MATERIALS

- 4.1 THE CONTRACTOR SHALL PROVIDE AT HIS OWN EXPENSE A MEANS OF SCREENING THE MATERIAL TO ELIMINATE OVER-SIZED STONES.

5.0 FELLING / REPLACING OF TREES

- 5.1 NO TREES ARE TO BE UNNECESSARILY FELLED PRIOR TO ANY TREE FELLING. APPROVAL SHALL BE OBTAINED FROM THE SO.
- 5.2 WHERE TREES ARE TO BE FELLED, SEPARATING AND/OR SEPARATING THE FELTRESSES SHALL BE IN ACCORDANCE WITH THE APPROVED APPLICATION TO THE GOVERNMENT DEPARTMENT.

6.0 NOTES FOR HYDROSEEDING

- 6.1 THE SLOPE SURFACE TO BE HYDROSEEDED SHALL BE CLEANED BEFORE HYDROSEEDING.
- 6.2 THE CONTRACTOR SHALL SUBMIT THE MIX COMPONENT OF HYDROSEEDING AND INTENDED APPLICATION RATE FOR THE APPROVAL OF THE ENGINEER. ON THE APPROVED SURFACE.
- 6.3 ON COMPLETION OF HYDROSEEDING, THE CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION TO PREVENT THE APPLICATION OF FOLLOW-UP FERTILIZER MAY BE NECESSARY BUT THIS SHALL ONLY TAKE PLACE AT LEAST 2 MONTHS AFTER HYDROSEEDING AND WITHIN THE GROWING SEASON (MARCH TO SEPTEMBER).

7.0 NOTES ON PROTECTION OF EXISTING DRAINAGE

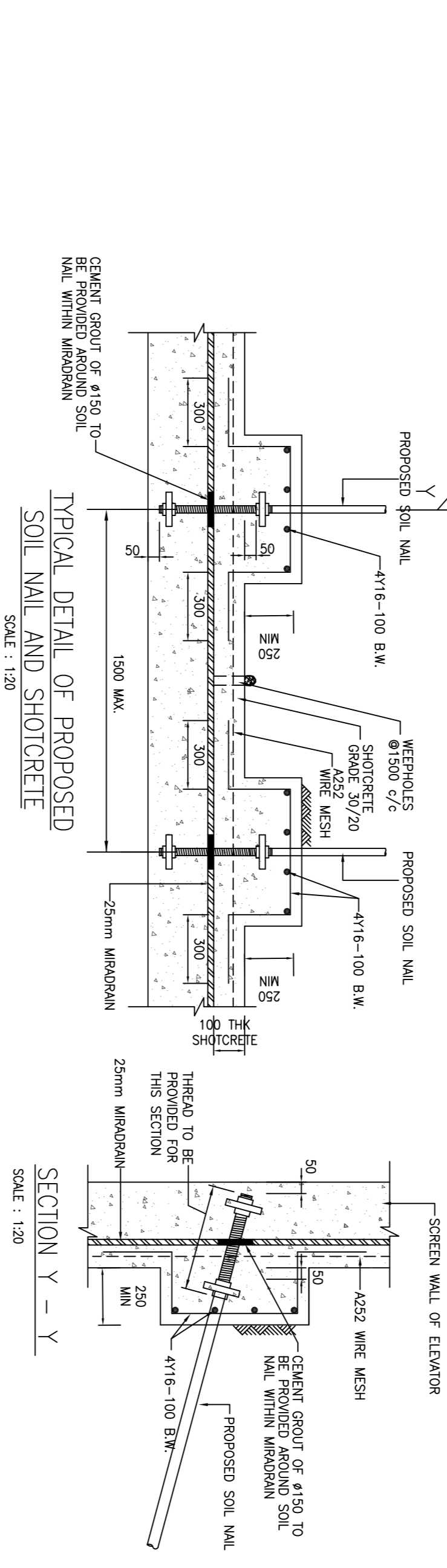
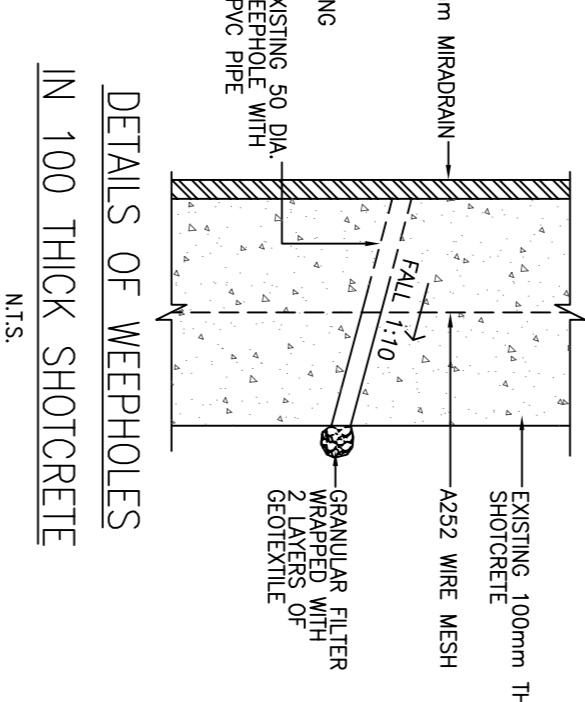
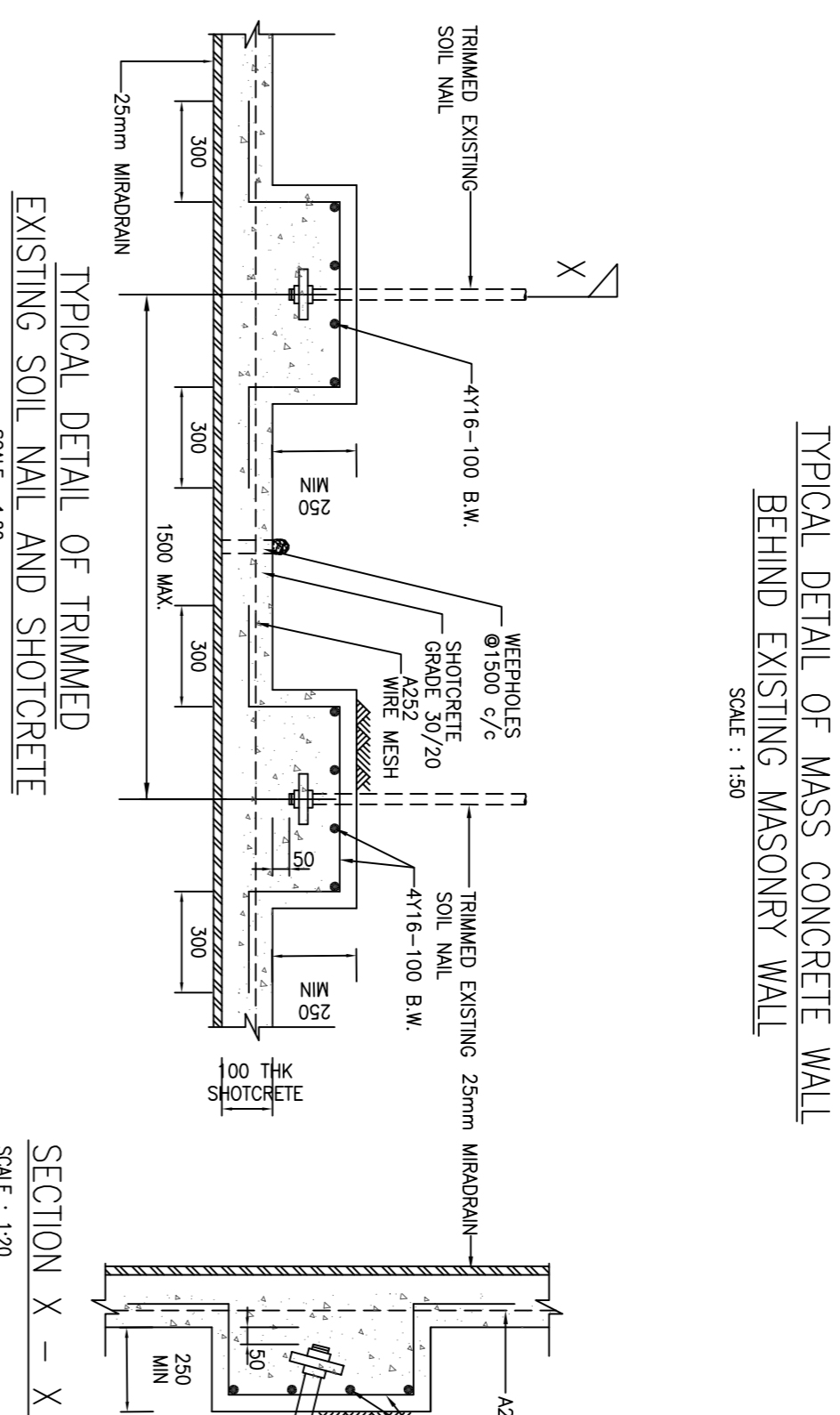
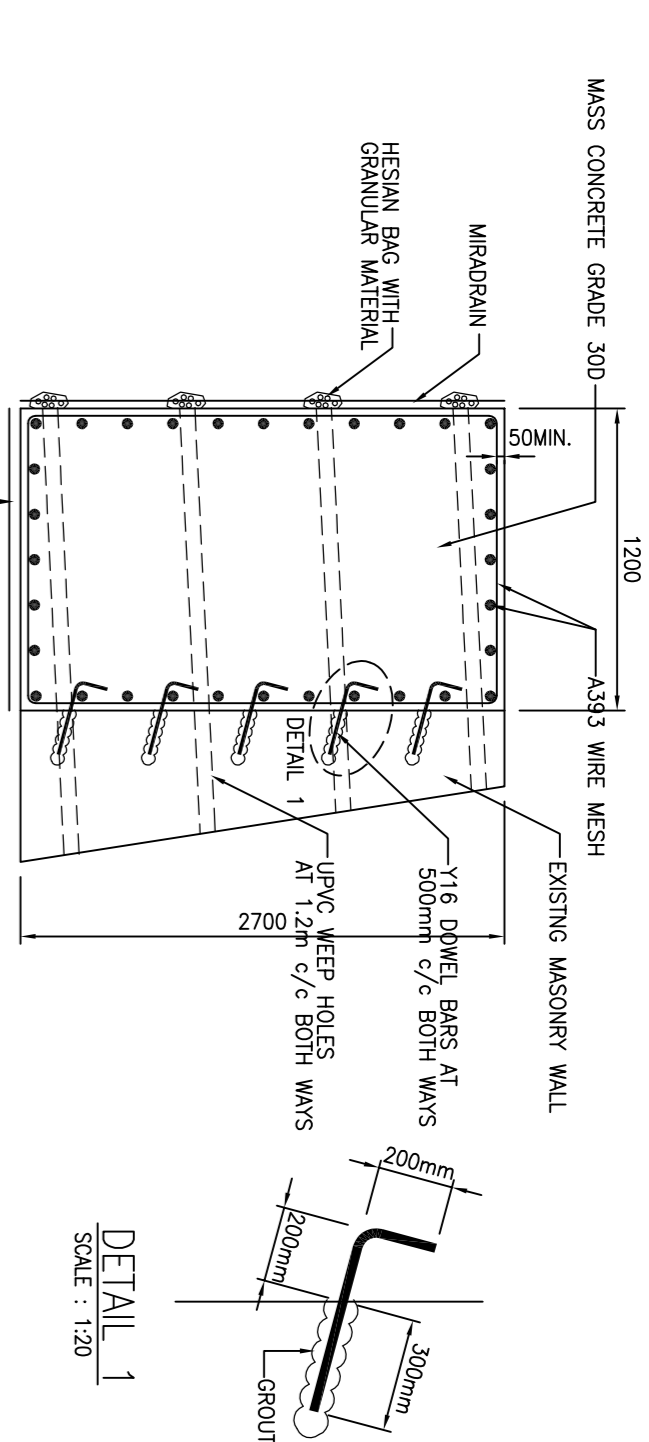
- 7.1 ALL PUBLIC DRAINS SHALL NOT BE INTERRUPTED DURING THE COURSE OF CONSTRUCTION.
- 7.2 NO STAKES / SURBERS SHALL BE DISAPPEARED INTO THE PAVED DRAINAGE DURING THE CONSTRUCTION PERIOD.
- 7.3 SATISFACTION OF SO/S/20/03.

8.0 DESIGN GROUNDWATER TABLE

- THE DESIGN GROUNDWATER TABLE IS TAKEN AS FOLLOWS:
- 1m PERCHED WATER TABLE ABOVE INTERFACE OF FILL AND INSITU SOILS
 - 1/3 RETAINING HEIGHT OF RETAINING STRUCTURES.
 - 80 mmhd AT BASE OF EXISTING KING'S PARK FRESH WATER SERVICE RESERVOIR.
 - 1.5m RISE ABOVE THE HIGHEST OBSERVED GROUND WATER LEVEL.

9.0 DESIGN SURCHARGE

- 9.1 SITTING OUT AREA, ON BEAM, ON RAMP = 5 kPa
- 9.2 CARRIED AROUND, CIRCULAR AROUND, SEAT WALL = 25 kPa
- 9.3 TEMPORARY LOAD = 10 kPa



Notes :

No.	Date	Description	Initial
05/01/12		TENDER DRAWING	

Revision
Consultant Project No. 8165

ARTHUR C. S. KWOK ARCHITECTS & ASSOCIATES LIMITED
KOWLOON

TEAM 73 HK Limited
CONSULTING ENGINEERS, BUILDING SERVICES

GANNETT CONSULTANTS LIMITED
CONSULTING ENGINEERS, BUILDING SERVICES

Name	Signed	Date
Designed		
Drawn		
Checked		
Approved		

Contract No.	
File No.	
Project No.	420 R0
Consultant Agreement No.	9A5022

Contract LOCAL OPEN SPACE AT CHUNG YEE STREET, KOWLOON CITY DISTRICT

Drawing Title TYPICAL DETAILS AND NOTES

Drawing No.	SE/2263/NTSF008	Scale	AS SHOWN
		(Date)	

ARCHITECTURAL SERVICES DEPARTMENT