PROPOSED MOSQUE AT
64 MOUNTFORD AVE, GUILDFORD NSW

CONSULTANT/ARCHITECT: designiche Building Designers

COUNCIL: CUMBERLAND COUNCIL

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ISSUE	DATE	DESCRIPTION	DRAWN	APPROVED
A	1.08.19	ISSUED FOR DA	O.Z	Z.D

SCALE (cm) FULL SIZE 0 1 2 4 6 10 14

APPROVED BY
PRINCIPAL ENGINEER
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PROJECT MANAGERS | STRUCTURAL | STORMWATER | FLOOD MODELING | GEOTECHNICAL

PROJECT ADDRESS
64 MOUNTFORD AVE, GUILDFORD NSW

PROJECT TITLE
ICMG MOSQUE

DRAWING TITLE
PROJECT DETAILS

CLIENT DETAILS
ICMG

SCALE	DESIGNED BY	SHEET
	M.H	A1
PROJECT NO	SHEET NO	ISSUE
19018	**SW-FC**	

STORMWATER MANAGMENT PLAN (DA)

64 MOUNTFORD AVE, GUILDFORD NSW

GENERAL

1. FINAL LOCATION OF NEW DOWNPIPES TO BE DETERMINED BY BUILDER/ARCHITECT AT TIME OF CONSTRUCTION.
2. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTS AND OTHER CONSULTANTS DRAWINGS. ANY DISCREPANCIES TO BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH WORK.
3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH AS/NZS 3500.3:2018 STORMWATER DRAINAGE, BCA AND LOCAL COUNCIL POLICY/CONSENT/REQUIREMENTS.
4. ALL DIMENSIONS AND LEVELS TO BE VERIFIED BY BUILDER ON-SITE PRIOR TO COMMENCEMENT OF WORKS.
5. THESE DRAWINGS ARE NOT TO BE SCALED FOR DIMENSIONS NOR TO BE USED FOR SETOUT PURPOSES.
6. ALL SURVEY INFORMATION AND PROPOSED BUILDING AND FINISHED SURFACE LEVELS SHOWN IN THESE DRAWINGS ARE BASED ON LEVELS OBTAINED FROM DRAWINGS BY OTHERS.
7. THESE DRAWINGS DEPICT THE DESIGN OF SURFACE STORMWATER RUNOFF DRAINAGE SYSTEMS ONLY AND DO NOT DEPICT ROOF DRAINAGE OR SUBSOIL DRAINAGE SYSTEMS
8. UNLESS NOTED OTHERWISE. THE DESIGN OF ROOF AND SUBSOIL DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF OTHERS.
9. ALL STORMWATER DRAINAGE PIPES ARE TO BE uPVC AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.
10. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE AND LEVEL ALL EXISTING SERVICES OR OTHER STRUCTURES WHICH MAY AFFECT/BE AFFECTED BY THIS DESIGN PRIOR TO COMMENCEMENT OF WORKS.
11. ALL PITS WITHIN DRIVEWAYS TO BE 150mm THICK CONCRETE OR EQUAL.
12. THIS PLAN IS THE PROPERTY OF PLATINUM ENGINEERING SOLUTIONS AND MAY NOT BE USED OR REPRODUCED WITHOUT WRITTEN PERMISSION FROM PLATINUM ENGINEERING SOLUTIONS.

DRAINAGE NOTES

1. ALL DRAINAGE LEVELS TO BE CONFIRMED ON SITE, PRIOR TO ANY CONSTRUCTION COMMENCING.
2. ALL PIPES WITHIN THE PROPERTY TO BE A MINIMUM OF 100 DIA UPVC @ 1% MINIMUM GRADE, UNO.
3. ALL PITS WITHIN THE PROPERTY ARE TO BE FITTED WITH "WELDLOK" OR APPROVED EQUIVALENT GRATES:
   -LIGHT DUTY FOR LANDSCAPED AREAS
   -HEAVY DUTY WHERE SUBJECTED TO VEHICULAR TRAFFIC
4. ALL PITS WITHIN THE PROPERTY TO BE CONSTRUCTED AS ONE OF THE FOLLOWING:
   - PRECAST STORMWATER PITS
   - CAST INSITU MASS CONCRETE
   - CEMENT RENDERED 230MM BRICKWORK SUBJECT TO THE RELEVANT LOCAL AUTHORITY CONSTRUCTION SPECIFICATION.
5. ENSURE ALL GRATES TO PITS ARE SET BELOW FINISHED SURFACE LEVEL WITHIN THE PROPERTY.
6. TOP OF PIT RL'S ARE APPROXIMATE ONLY AND MAY BE VARIED SUBJECT TO APPROVAL OF THE ENGINEER. ALL INVERT LEVELS ARE TO BE ACHIEVED.
7. ANY PIPES BENEATH RELEVANT LOCAL AUTHORITY ROAD TO BE RUBBER RING JOINTED RCP, UNO.
8. ALL PITS IN ROADWAYS ARE TO BE FITTED WITH HEAVY DUTY GRATES WITH LOCKING BOLTS AND CONTINUOUS HINGE.
9. PROVIDE STEP IRONS TO STORMWATER PITS GREATER THAN 1200 IN DEPTH
10. TRENCH BACK FILL IN ROADWAYS SHALL COMPRISE SHARP, CLEAN GRANULAR BACK FILL IN ACCORDANCE WITH THE RELEVANT
11. LOCAL AUTHORITY SPECIFICATION TO NON-TRAFFICABLE AREAS TO BE COMPACTED BY RODDING AND TAMPING USING A FLAT PLATE VIBRATOR.
12. WHERE A HIGH EARLY DISCHARGE (HED) PIT IS PROVIDED ALL PIPES ARE TO BE CONNECTED TO THE HED PIT, UNO.
13. DOWN PIPES SHALL BE A MINIMUM OF DN100 SW GRADE UPVC OR 100 X100 COLORBOND/ZINCALUME STEEL, UNO.
14. COLORBOND OR ZINCALUME STEEL BOX GUTTERS SHALL BE A MINIMUM OF 450 WIDE X 150 DEEP. UNO.
15. EAVES GUTTERS SHALL BE A MINIMUM OF 125 WIDE X 100 DEEP (OR OF EQUIVALENT AREA) COLORBOND OR ZINCALUME STEEL, UNO.
16. SUBSOIL DRAINAGE SHALL BE PROVIDED TO ALL RETAINING WALLS & EMBANKMENTS, WITH THE LINES FEEDING INTO THE STORMWATER DRAINAGE SYSTEM, UNO.

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 2004 (BLUE BOOK).
3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIRRESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

LAND DISTURBANCE INSTRUCTIONS

4. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
5. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
6. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
7. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE:
   A. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
   B. CONSTRUCT THE STABILISED SITE ACCESS.
   C. CONSTRUCT DIVERSION DRAINS AS REQUIRED.
   D. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
   E. INSTALL GEOTEXTILE INLET FILTERS AROUND ANY ON-SITE DROP INLET PITS.
   F. CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
   G. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
   H. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
   I. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
5. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY SILTATION FENCING AND CATCH DRAIN SPACING.
6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

SITE MAINTENANCE INSTRUCTIONS

7. THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO:
   A. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
   B. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
   C. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
   D. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
   E. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
   F. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
8. THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE:
   A. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
   B. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
   C. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE.
   D. THE NEED FOR DUST PREVENTION STRATEGIES.
   E. ANY REMEDIAL WORKS TO BE UNDERTAKEN.

THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

SEDIMENT CONTROL INSTRUCTIONS

9. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
10. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
11. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
12. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
13. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
14. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
15. ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

SOIL EROSION CONTROL INSTRUCTIONS

16. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A
   · GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
   · 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
   · 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
   · 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 20 METRES.
   · 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 20 METRES.
17. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
18. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5-1 OF "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", DEPT OF HOUSING 2004 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
19. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
20. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
21. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
22. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
23. REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTANT ANNUAL COVER CROPS SHOULD BE USED.

WASTE CONTROL INSTRUCTIONS

24. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
25. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
26. ALL SITE STAFF AND SUB-CONTACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
27. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
28. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

STANDARD LINE TYPES, SYMBOLS AND ABBREVIATIONS

RW — RW	PROPOSED BELOW GROUND SEALED ROOF WATER TO RWT
SW — SW	PROPOSED BELOW GROUND STORMWATER PIPE
SW — SW	SUBSOIL DRAINAGE LINE
	SEDIMENT CONTROL FENCE
	PROPOSED JUNCTION PIT
	OVERLAND FLOW PATH
O/F	OVERFLOW
DP	DOWNPIPE
S	SPREADER
CE	CLEANING EYE
FD	FLOOR OUTLET, REFER TO DETAIL
FG	FLOOR GULLY Ø 150
IP	Ø150 INSPECTION POINT
IL	INVERT LEVEL
RWH	RAIN WATER HEAD
RWO	RAIN WATER OUTLET (300 x 300)
RWT	RAIN WATER TANK
SL	SURFACE LEVEL

DEPTH OF COVER FOR PVC PIPES

MINIMUM PIPE COVER SHALL BE AS FOLLOWS1;

LOCATION	MINIMUM COVER
NOT SUBJECT TO VEHICLE LOADING	100mm SINGLE RESIDENTIAL 300mm ALL OTHER DEVELOPMENTS
SUBJECT TO VEHICLE LOADING	450mm WHERE NOT ON ROAD
UNDER A SEALED ROAD	600mm
UNSEALED ROAD	750mm
PAVED DRIVEWAY	100mm BELOW CONCRETE

PIT SIZES AND DESIGN

DEPTH (mm)	MINIMUM PIT SIZE (mm)
UP TO 450mm	450 x 450
450mm TO 600mm	600 x 600
600mm TO 900mm	600 x 900
900mm TO 1500mm	900 x 900 (WITH STEP IRONS)
1500mm TO 2000mm	1200 x 1200 (WITH STEP IRONS)

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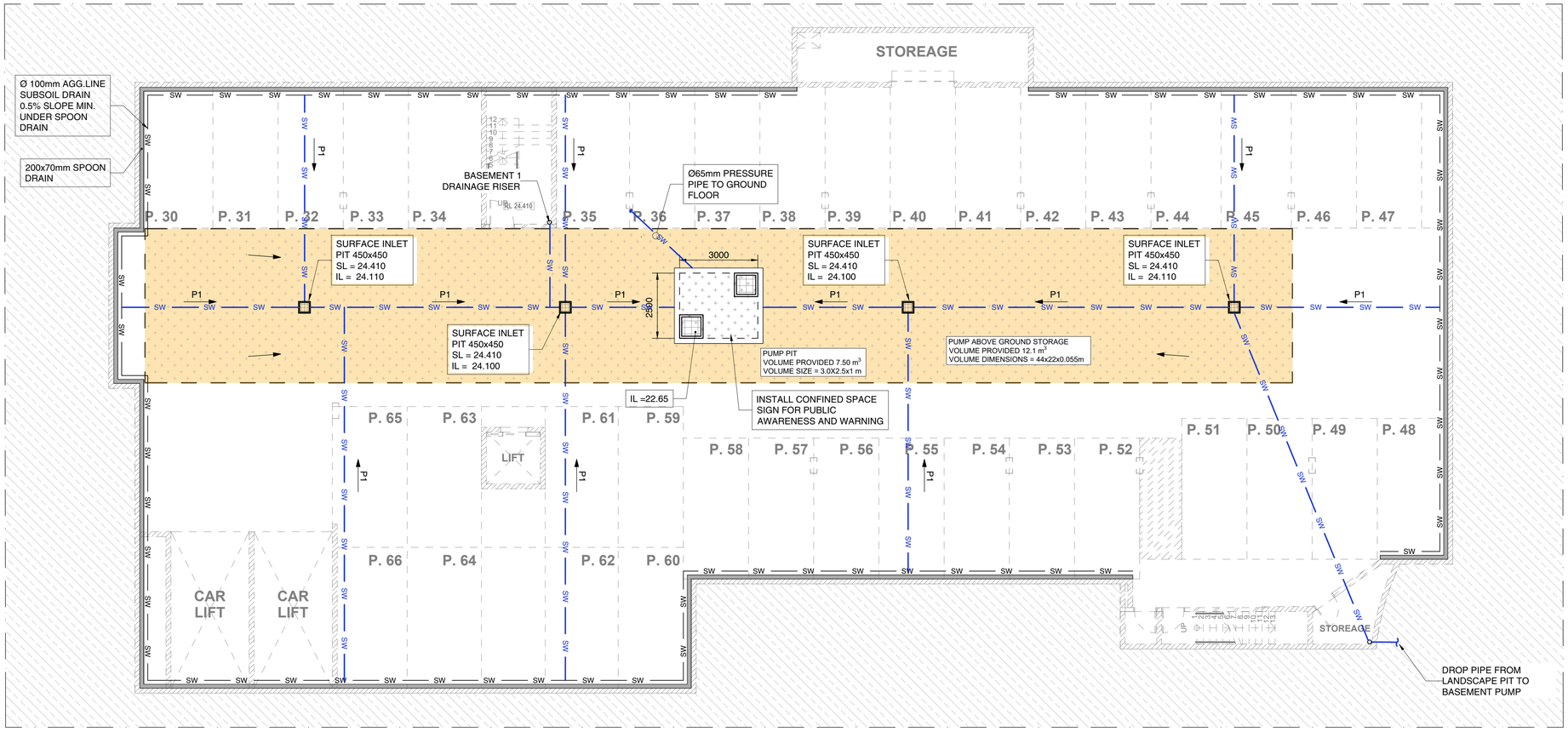

STANDARD PUMP OUT DESIGN NOTES:

THE PUMP OUT SYSTEM SHALL BE DESIGN TO BE OPERATED IN THE FOLLOWING MANNER:
1 - THE PUMP SHALL BE PROGRAMMED TO WORK ALTERNATELY TO ALLOW BOTH PUMPS TO HAVE AN EQUAL OPERATION LOAD AND PUMP LIFE.
2 - A FLOAT SHALL BE PROVIDED TO ENSURE OF THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS AT THE MINIMUM WATER LEVEL. THE SAME FLOAT SHALL BE SET TO TURN ONE OF THE PUMPS ON UPON THE WATER LEVEL IN THE TANK RISING TO APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL. THE PUMP SHALL OPERATE UNTIL THE TANK IS DRAINED TO THE MINIMUM WATER LEVEL.
3 - A SECOND FLOAT SHALL BE PROVIDE AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHALL START THE OTHER PUMP THAT IS NOT OPERATING AND ACTIVATE THE ALARM.
4 - AN ALARM SYSTEM SHALL BE PROVIDE WITH A FLASHING STROBE LIGHT AND A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.
5 - A CONFINED SPACE DANGER SIGN SHALL BE PROVIDED AT ALL ACCESS POINT TO THE PUMP-OUT STORAGE TANK IN ACCORDANCE WITH THE UPPER PARRAMATA RIVER CATCHMENT TRUST OSD HANDBOOK.

STROMWATER NOTES

1. ALL LINES ARE TO BE MIN. 100Ø U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
4. ALL PITS IN DRIVEWAYS TO BE 600x600 INTERNAL AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 INTERNAL
5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:1998 AND COUNCIL SPECIFICATIONS.
6. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS

BASEMENT 2 DRAINAGE PLAN:

SCALE 1:100 @A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

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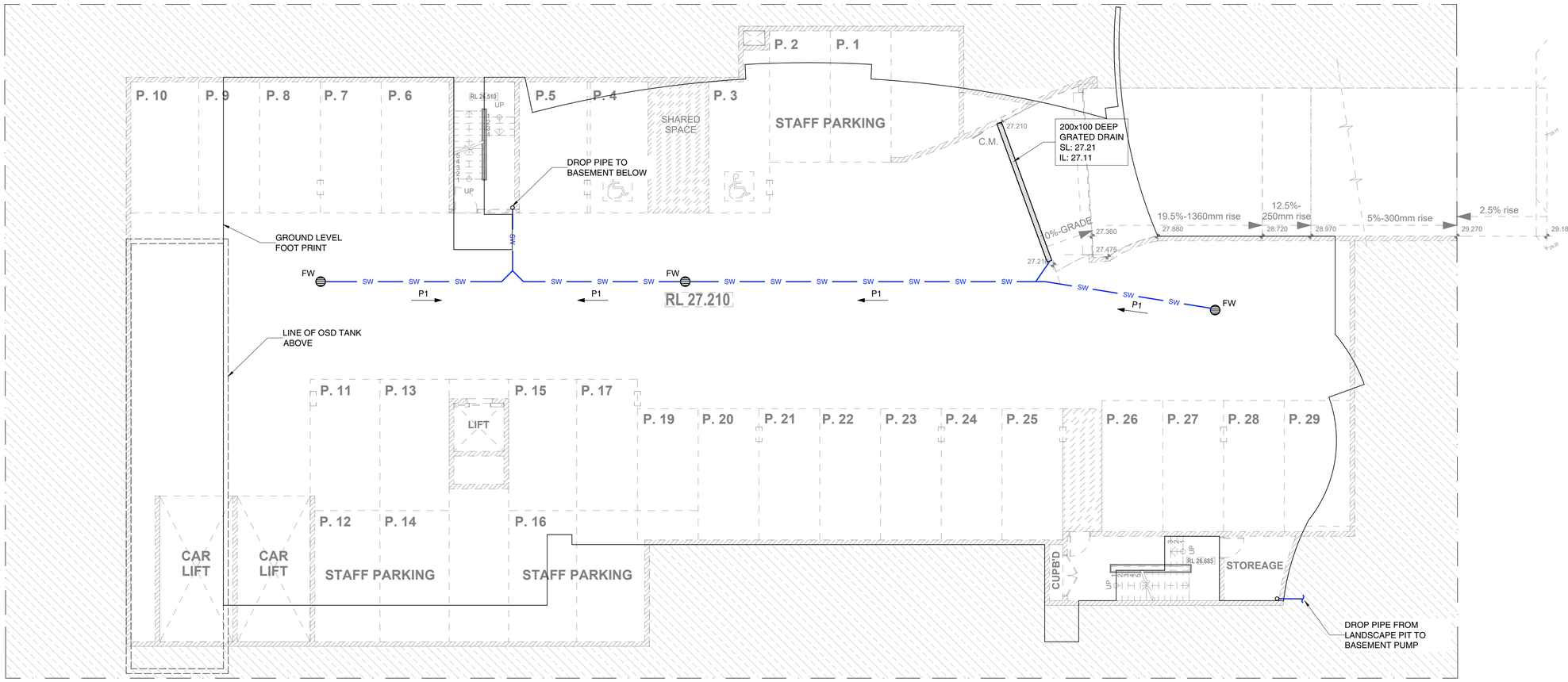

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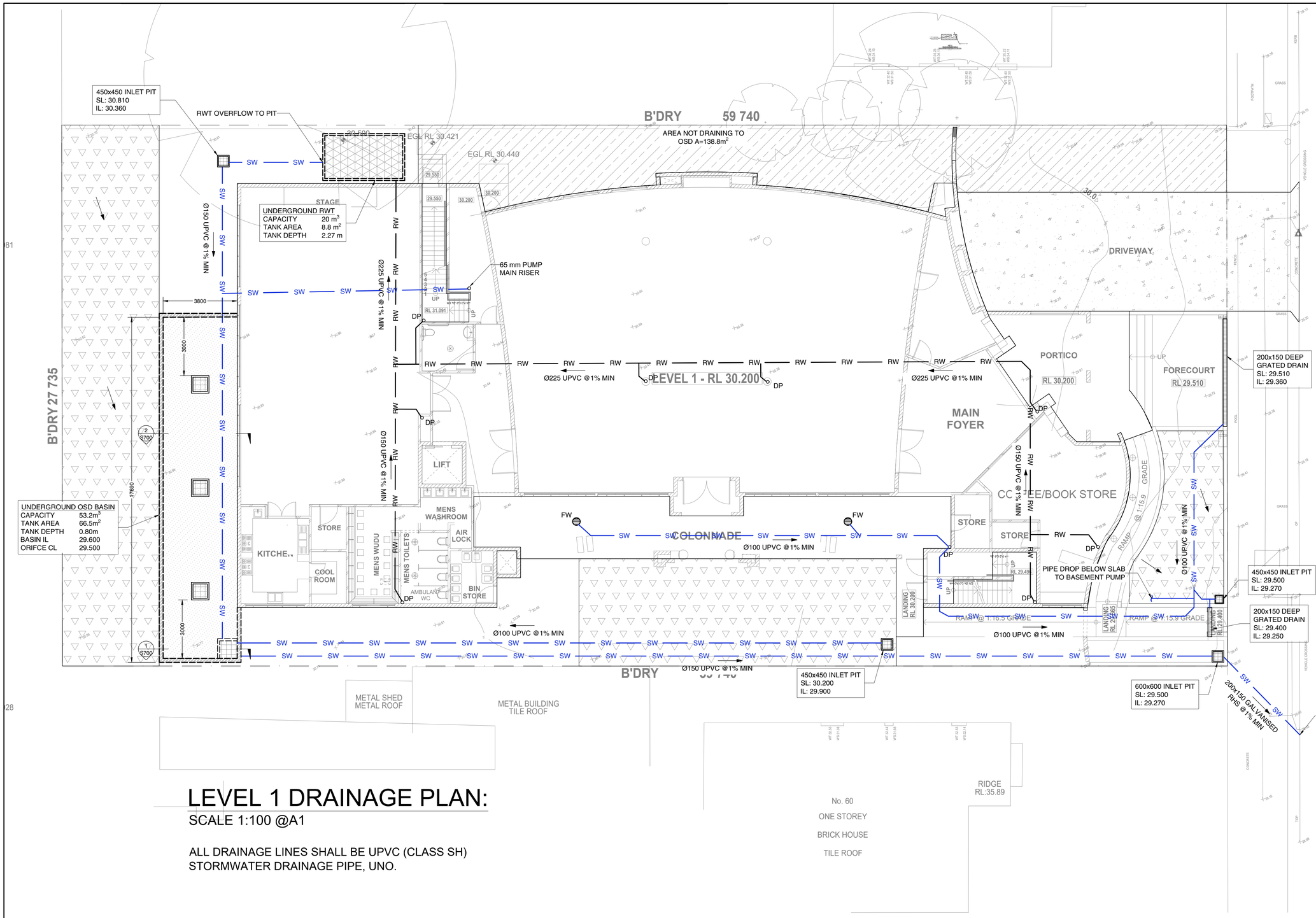

LEVEL 1 DRAINAGE PLAN:

SCALE 1:100 @A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.

ABBREVIATIONS :

uPVC	UNPLASTISIZED POLYVINYL CHLORIDE
PVC	POLYVINYL CHLORIDE
HDPE	HIGH DENSITY POLYETHYLENE
FRC	FIBRE REINFORCED CONCRETE
CI	CAST IRON
CU	COPPER
DP	DOWNPIPE
RM	RISING MAIN
SYDP	SYPHONIC DOWNPIPE
RWT	RAINWATER TANK
TD	TUNDISH
TTD	TRAPPED TUNDISH
D.T.U.A.A.	DRAINAGE TURN-UP POINT
GTD	GRATED TRENCH DRAIN
RWO	RAINWATER OUTLET
BRWO	BALCONY RAINWATER OUTLET
PBO	PLANTER BOX OUTLET
SPO	SPOON DRAIN OUTLET
RL	REDUCED LEVEL
IL	INVERT LEVEL
SL	SURFACE LEVEL
FFL	FINISHED FLOOR LEVEL
HL	HIGH LEVEL
LL	LOW LEVEL
TOW	TOP OF WALL
US	UNDERSIDE
M/H	PRESSURE IN METRES/HEAD
CIS	CAST IN SLAB
CIC	CAST IN COLUMN
EX.	EXISTING
DIA.	DIAMETER
m	METRE
SQ.	SQUARE
U.N.O.	UNLESS NOTED OTHERWISE
PSD	PERMISSIBLE SITE DISCHARGE
SSR	SITE STORAGE REQUIREMENTS
FW	FLOOR WASTE

LEGEND:

- DEEP SOIL ZONE
- AREA BYPASSING OSD
- RW — PIPE TO RAINWATER TANK
- SW — STORMWATER PIPE
- SW — SUB-SOIL PIPE
- SURFACE INLET PIT
- FLOW DIRECTION

RWO1	SIA150F2 OR EQUIVALENT
RWO2	SIA80F2 OR EQUIVALENT

ISSUE	DATE	DESCRIPTION	DRAWN	APPROVED
A	1.08.19	ISSUED FOR DA	O.Z	Z.D

SCALE (cm) FULL SIZE 0 1 2 4 6 10 14

APPROVED BY
PRINCIPAL ENGINEER
ZIAD DAKKAK

NORTH POINT

CONSULTANT
designiche Building Designers

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LEVEL 11, CLARENCE ST
SYDNEY NSW 2200
EMAIL: ADMIN@PLEN.COM.AU

PROJECT MANAGERS | STRUCTURAL | STORMWATER | FLOOD MODELING | GEOTECHNICAL

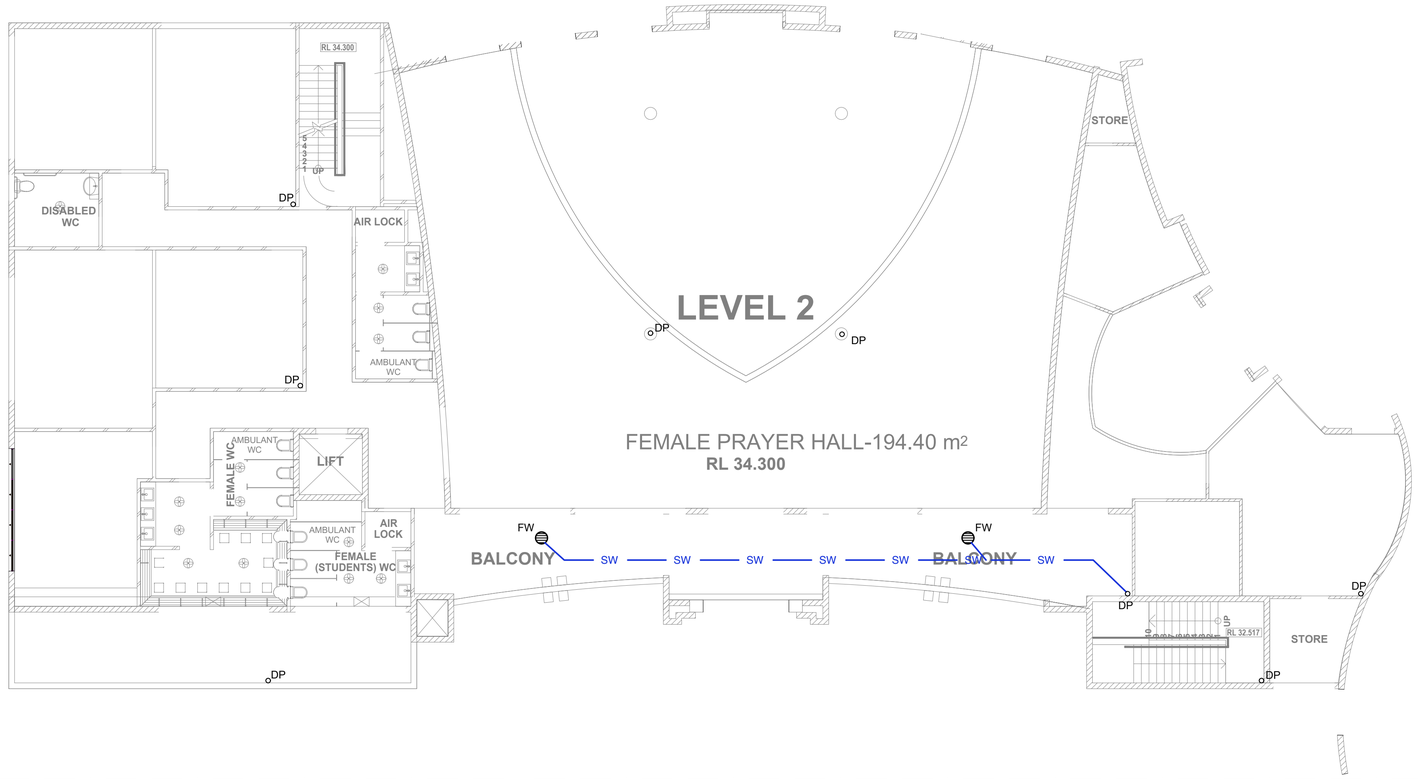
PROJECT ADDRESS
64 MOUNTFORD AVE, GUILDFORD NSW

PROJECT TITLE
ICMG MOSQUE

DRAWING TITLE
L1 STORMWATER LAYOUT

CLIENT DETAILS
ICMG

SCALE	DESIGNED BY	SHEET
	M.H	A1
PROJECT NO	SHEET NO	ISSUE
19018	SW-300	



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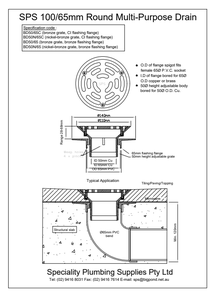
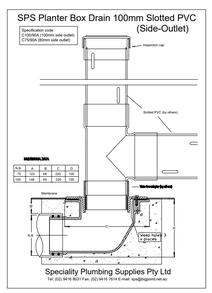
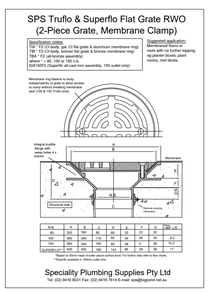
LEVEL 2 DRAINAGE PLAN:

SCALE 1:100 @A1

ALL DRAINAGE LINES SHALL BE UPVC (CLASS SH) STORMWATER DRAINAGE PIPE, UNO.







TYPICAL DETAILS- PLANTER BOX, BALCONY & TERRACE GRATE

NOT TO SCALE

ISSUE	DATE	DESCRIPTION	DRAWN	APPROVED
A	1.08.19	ISSUED FOR DA	O.Z	Z.D

SCALE (cm) FULL SIZE 0 1 2 4 6 10 14

APPROVED BY
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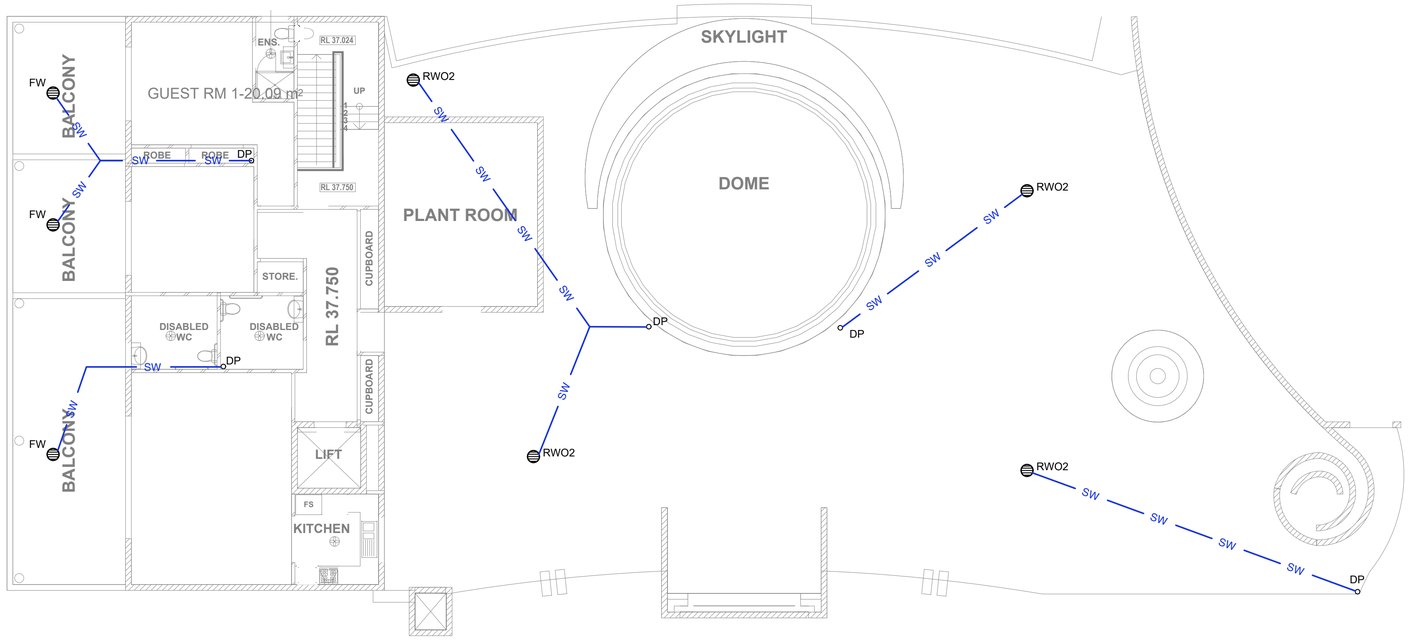
PROJECT TITLE
ICMG MOSQUE

DRAWING TITLE
L 2 STORMWATER LAYOUT

CLIENT DETAILS
ICMG

SCALE	DESIGNED BY	SHEET
	M.H	A1
PROJECT NO	SHEET NO	ISSUE
19018	SW-400	



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LEVEL 3 DRAINAGE PLAN:

SCALE 1:100 @A1

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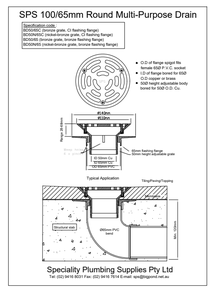
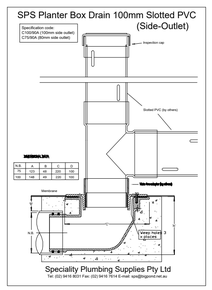
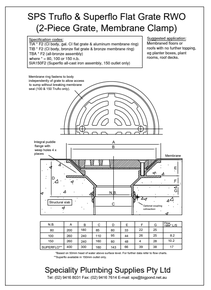
STORMWATER DRAINAGE PIPE, UNO.







TYPICAL DETAILS- PLANTER BOX, BALCONY & TERRACE GRATE

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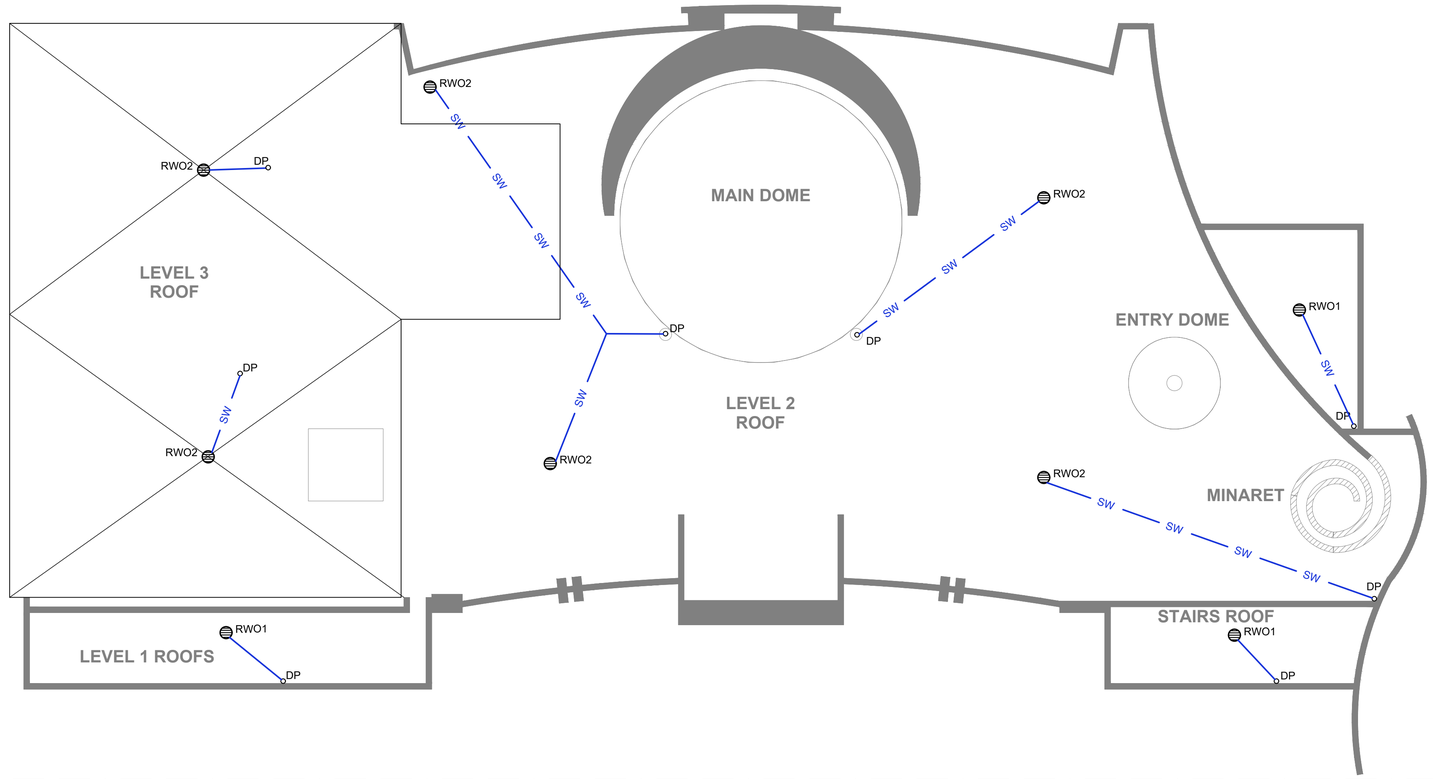
PROJECT TITLE
ICMG MOSQUE

DRAWING TITLE
L3 STORMWATER LAYOUT

CLIENT DETAILS
ICMG

SCALE	DESIGNED BY	SHEET
	M.H	A1
PROJECT NO	SHEET NO	ISSUE
19018	SW-500	



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ROOF DRAINAGE PLAN:

SCALE 1:100 @A1

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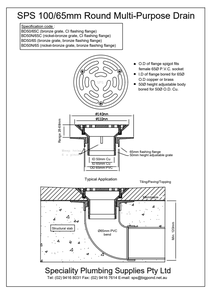

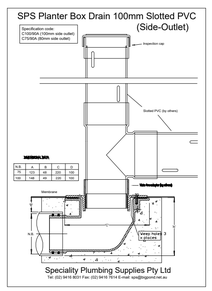

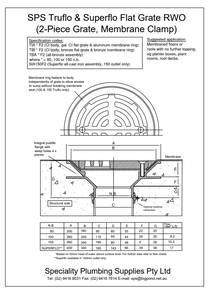

TYPICAL DETAILS- PLANTER BOX, BALCONY & TERRACE GRATE

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ISSUE	DATE	DESCRIPTION	DRAWN	APPROVED
A	1.08.19	ISSUED FOR DA	O.Z	Z.D

SCALE (cm) FULL SIZE 0 1 2 4 6 10 14

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PROJECT ADDRESS
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PROJECT TITLE
ICMG MOSQUE

DRAWING TITLE
ROOF STORMWATER LAYOUT

CLIENT DETAILS
ICMG

SCALE	DESIGNED BY	SHEET
	M.H	A1
PROJECT NO	SHEET NO	ISSUE
19018	SW-600	

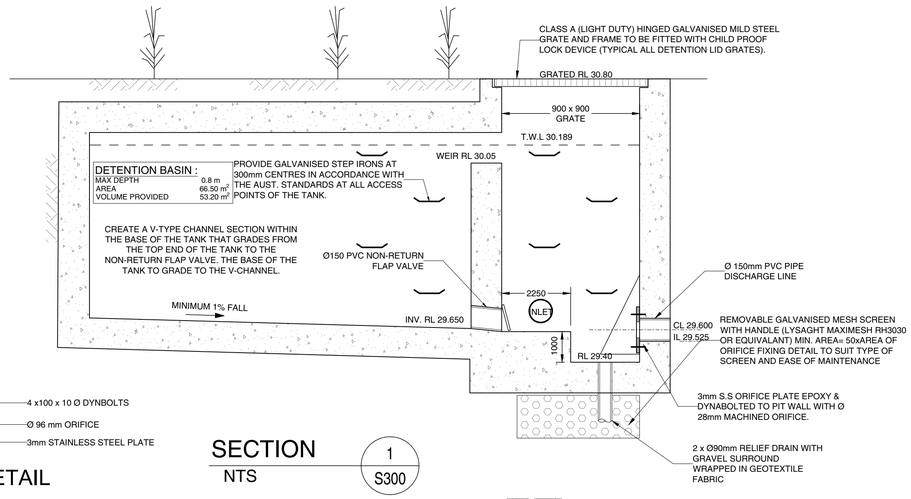
STROMWATER NOTES

1. ALL LINES ARE TO BE MIN. 100Ø U.P.V.C @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS.
3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
4. ALL PITS IN DRIVEWAYS TO BE 600x600 INTERNAL AND ALL PITS IN LANDSCAPED AREAS TO BE 450x450 INTERNAL
5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:1998 AND COUNCIL SPECIFICATIONS.
6. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS

CUMBERLAND CITY COUNCIL
On-Site Detention Calculation Sheet

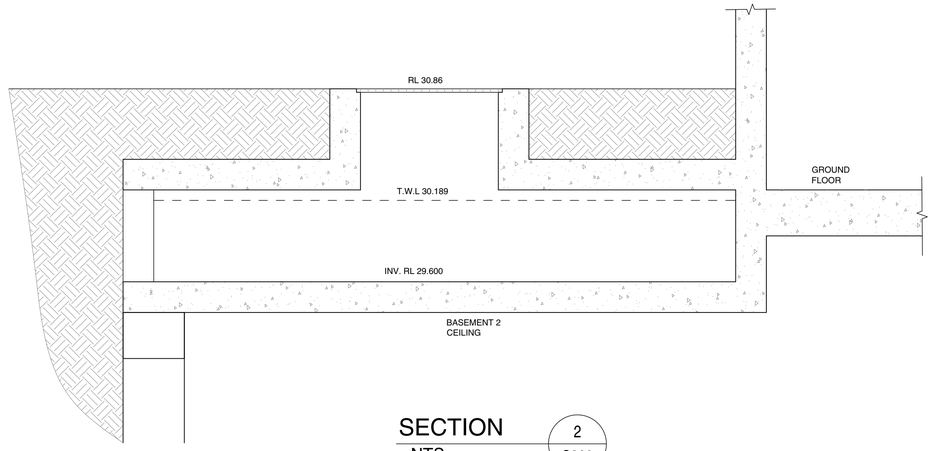
Project:	SW.Masjd.DA
Location:	64 Mountford ave, Guildford NSW
Designer:	Mootassem Hassoun
Phone:	0435212578

OSD Area:		UPRCT		UPRCT Drowned
Site Area		0.165		0.165
Basic Storage Volume	SSR 300	49.5		49.5
Basic Discharge	PSD 140	23.10		23.10
Area of Site to Storage		0.144	87%	0.144
Storage per ha of contributing area		343.8		343.8
Volume/PSD Adjustment		123.8		123.8
PSD for site		17.83		19.98
Maximum Head to Orifice Centre		0.789		0.789
Calculated Orifice Diameter		0.096		0.111
Maximum discharge		17.83		19.98
Head for high early discharge		0.650		0.691
High Early Discharge		16.18		18.46
Mean Discharge		17.01		17.82
Average Discharge per Hectare		118.1		120.0
Final Site Storage Ratio		355.9		351.7
Site Storage Volume		51.2		52.2
Volume Provided		16.4		16.4
Checked By:		Mootassem Hassoun		
Date Checked:				

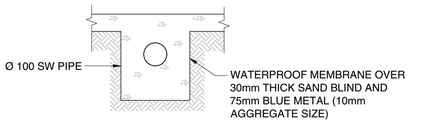


SECTION 1 / S300
NTS

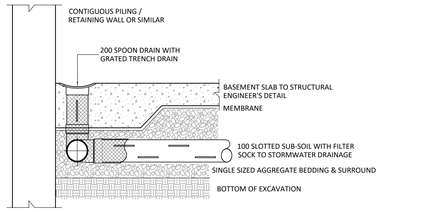
ORIFICE DETAIL
SCALE NTS



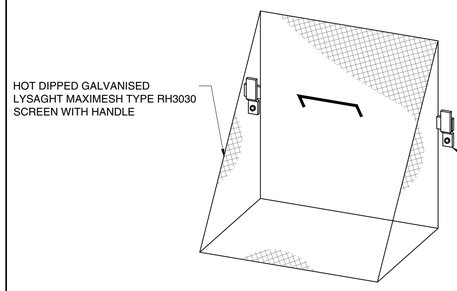
SECTION 2 / S300
NTS



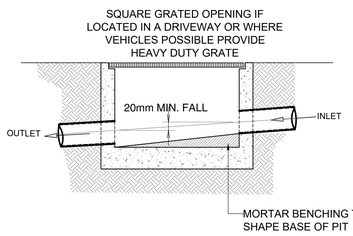
PIPE BEDDING DETAIL N.T.S.



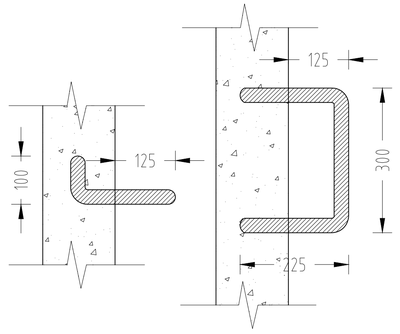
BASEMENT PERIMETER DRAINAGE WITH SPOON DRAIN OUTLET (SDO)
NOT TO SCALE



TRASH SCREEN DETAIL
N.T.S.



PIT DETAIL (NTS)



STEP IRONS
N.T.S.

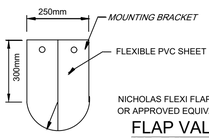
DANGER

CONFINED SPACE

NO ENTRY WITHOUT
CONFINED SPACE TRAINING
PRIOR TO COMMENCEMENT OF WORK

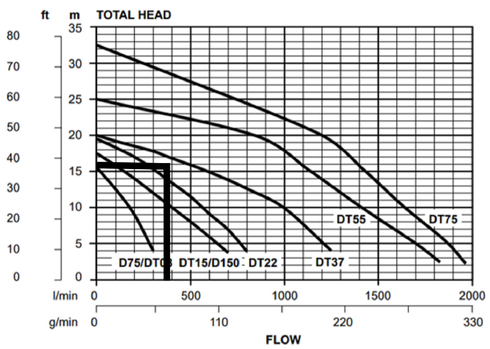
SIZE : 250mm X 180mm
CORNERS : SQUARE
COLOUR : ETCHED AND FILLED BLACK LEGEND ON NATURAL SILVER BACKGROUND
MATERIAL : ALUMINIUM 0.9mm
LOCATION : ALL ACCESS POINTS TO OSD TANK

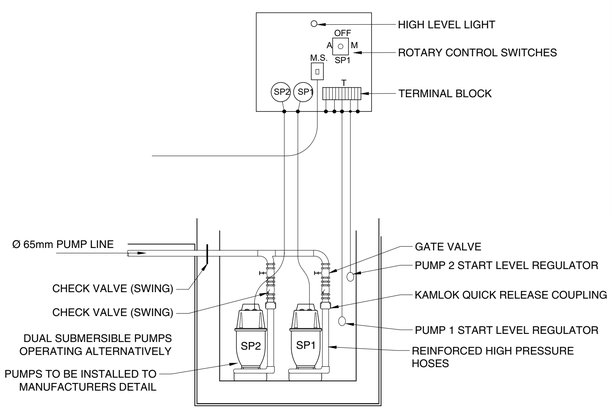
CONFINED SPACE SIGNAGE
NOT TO SCALE



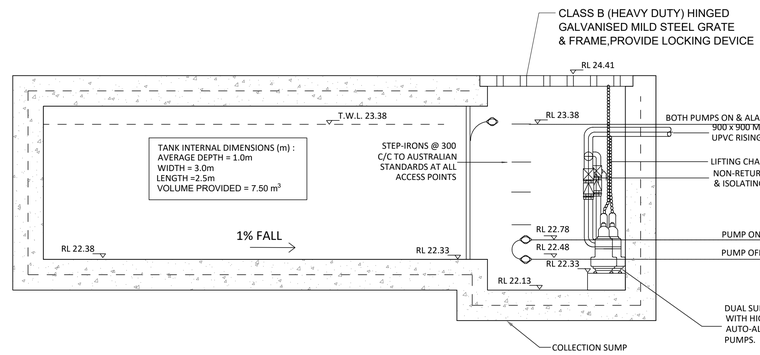
NICHOLAS FLEXI FLAP VALVE OR APPROVED EQUIVALENT.

FLAP VALVE (N.T.S)





TYPICAL SECTION THROUGH PUMP PIT
N.T.S.



BASEMENT PUMP STORAGE TANK
NOT TO SCALE

BASEMENT: PUMP-OUT CALCULATIONS

DRIVEWAY AREA DRAINING TOWARDS PUMP IS 111.1 m²

DESIGN CRITERIA

PROVIDE WET WELL OF MINIMUM VOLUME EQUAL TO THE 100 YEAR 5 MINUTE STORM VOLUMETRIC RUNOFF (AS PER AS3500) TO PROVIDE BACKUP STORAGE DURING POWER BLACKOUTS.

RATIONAL METHOD
A=111.1 m²
STORM DURATION = 90 MINUTES.
f = 100%
C100 = 1
$I_{100/90}$ = 43.6 mm/hr
$Q_{100,90}$ = CIA/3600 = 1.34 L/S
90 MINUTE VOLUME = 1.34*90*60/1000 = 7.26 m³
STORAGE PROVIDED = 3.00mX2.50mX1.0m = 7.50 m³
ABOVE GROUND STORAGE
$I_{100/12hr}$ = 14.6 mm/hr
$Q_{100,12hr}$ = CIA/3600 = 0.45 L/S
ABOVE GROUND STORAGE REQUIRED = 0.45*12*3600/1000-7.5=11.94 m³
STORAGE PROVIDED = 44x5.5x0.05m = 12.1 m³

ADOPT PUMP DISCHARGE RATE = 5 MINUTE, 100 YEAR STORM
REQUIRED PUMP DUTY = 1 X 203 X 111.1/3600 = 6.24 L/S.
PROPOSED RISING MAIN PIPE DIAMETER = 65mm uPVC PRESSURE CLASS 12

HEAD LOSSES
STATIC = 4.00 m
FRICTION LOSSES
- PIPE LENGTH = 0.30 m
- BENDS = 3.06 m
- VALVES = 2.13 m
- INLET/OUTLET = 5.00 m
- VELOCITY(HAZEN WILLIAMS, V= 1.73 m/s) = 1.52 m

TOTAL LOSSES = 16.0 m

PUMP DUTY: 6.24 L/S AT 16.0m HEAD FOR BASEMENT GARAGE.
PUMP TYPE: TWO SUBMERSIBLE EQUAL TO DT37 DAIVEY, OR EQUIVALENT.
PUMP CONTROL: AUTOMATIC WITH FLOAT SWITCHES, TWO(2) X ALTERNATING PUMPS, DUAL PUMP AT HIGH WATER LEVEL, CONTROL PANEL WITH ALARM.

ISSUE	DATE	DESCRIPTION	DRAWN	APPROVED
B	6.07.20	PUMP REDESIGN	M.H	Z.D
A	1.08.19	ISSUED FOR DA	O.Z	Z.D

SCALE (cm) FULL SIZE 0 1 2 4 6 10 14

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PROJECT TITLE
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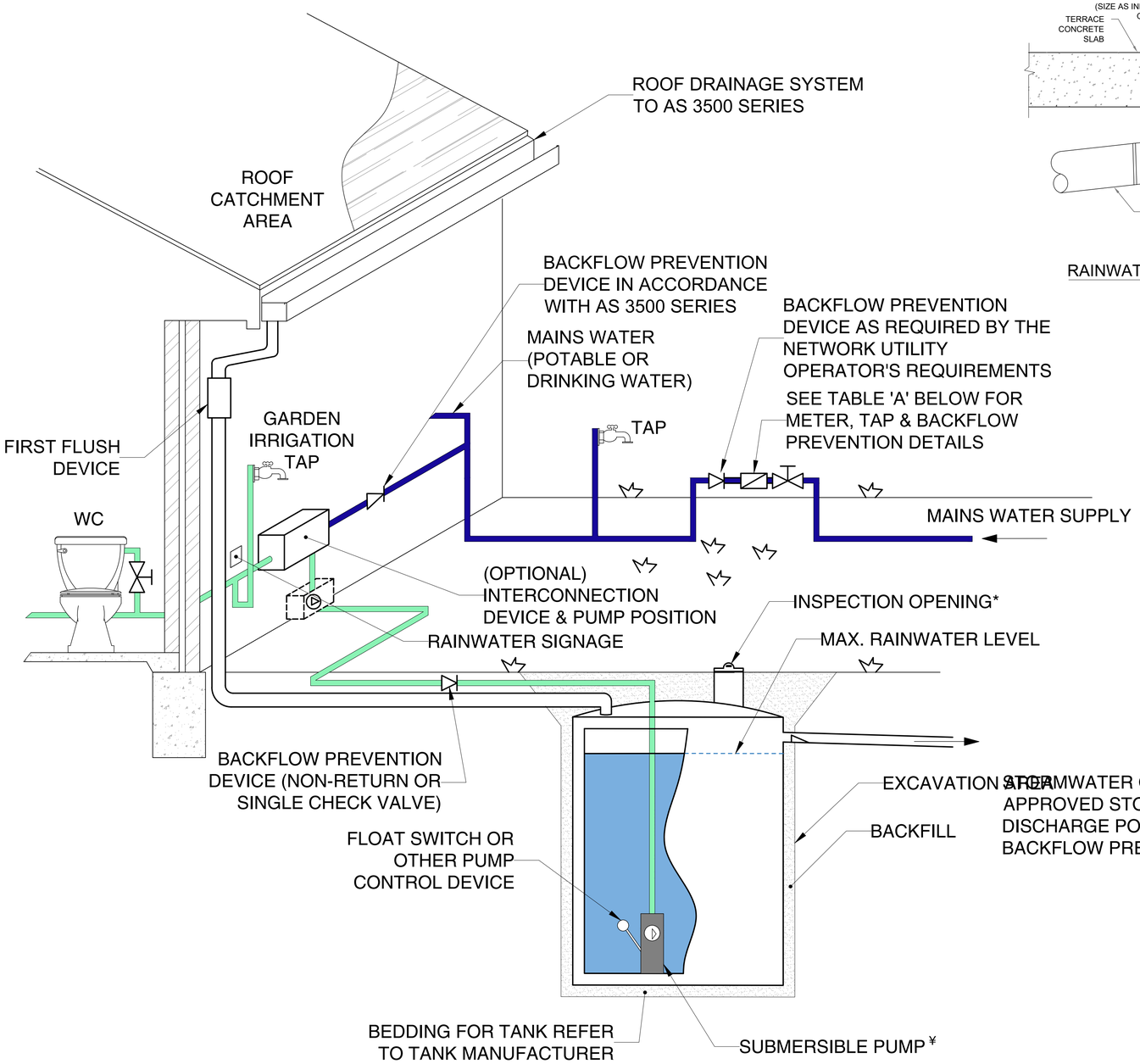
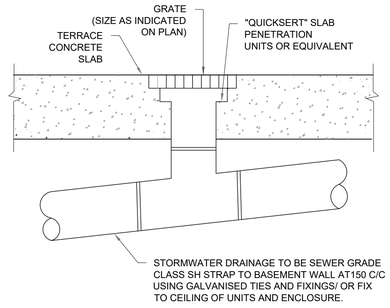
STORMWATER DETAILS

CLIENT DETAILS
ICMG

SCALE	DESIGNED BY	SHEET
	M.H	A1
PROJECT NO	SHEET NO	ISSUE
19018	SW-700	





RAINWATER OUTLET DETAIL
N.T.S.

- NON-RETURN VALVE
- PUMP
- REFLUX VALVE
- STOP TAP (ISOLATION VALVE)
- MAINS PIPEWORK (POTABLE OR DRINKING WATER)
- RAINWATER PIPEWORK

* INSPECTION OPENING MUST BE LOCAKABLE. IF WATERTIGHT CAN BE FLUSH TO FSL. IF NOT WATERTIGHT MIN 150 mm ABOVE FSL.

¥ 240V REQUIRED

PROVIDE VISIBLE WARNING SIGNAGE AT ALL RAINWATER TANK OUTLETS (e.g. GARDEN HOSE TAPS) IN ACCORDANCE WITH SYDNEY WATER REQUIREMENTS & AS1319

RAINWATER TANK LOCATION	METER SIZE (mm)	TYPE OF TAP	TYPE OF BACKFLOW PREVENTION
ABOVE GROUND	20	BALL VALVE	DUAL CHECK VALVE (COMBINED WITH METER)
	25	BALL VALVE	DUAL CHECK VALVE
	32	BALL VALVE	DUAL CHECK VALVE
BELOW GROUND	20	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	25	BALL VALVE	TESTABLE DOUBLE CHECK VALVE
	32	BALL VALVE	TESTABLE DOUBLE CHECK VALVE

UNDERGROUND RAINWATER TANK INSTALLATION WITH RAINWATER SUPPLIED TO GARDEN AND APPLIANCES IN THE HOUSEHOLD

REPRODUCED FROM RAINWATER TANK DESIGN AND INSTALLATION HANDBOOK (HB 230-2008)

ISSUE	DATE	DESCRIPTION	DRAWN	APPROVED
A	1.08.19	ISSUED FOR DA	O.Z	Z.D

SCALE (cm) FULL SIZE 0 1 2 4 6 10 14

APPROVED BY
PRINCIPAL ENGINEER
ZIAD DAKKAK

NORTH POINT

CONSULTANT
designiche Building Designers

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PROJECT MANAGERS | STRUCTURAL | STORMWATER | FLOOD MODELING | GEOTECHNICAL

PROJECT ADDRESS
64 MOUNTFORD AVE, GUILDFORD NSW

PROJECT TITLE
ICMG MOSQUE

DRAWING TITLE
RAINWATER TANK DETAILS

CLIENT DETAILS
ICMG

SCALE	DESIGNED BY	SHEET
	M.H	A1
PROJECT NO	SHEET NO	ISSUE
19018	SW-800	

TILE ROOF

TILE ROOF

BRICK BUILDING
TILE ROOF

RIDGE
RL:36.49

B'DRY 59 740

30.500

B'DRY 27 735

1
DP 963981

39.0

SETTLING PUMP TO PUMP OUT STORMWATER ONCE SETTLED.

SITE RECYCLING BIN

TEMPORARY SITE TOILET

TOILET

50mm AGGREGATE OR DGB20 ROADBASE STABLISED STE ACCESS MIN 3000 WIDE x 200 THICK (REFER TO DETAIL)

PROVIDE TAP AND HOSE BEHIND FENCELINE. ALL TRUCK TIRED MUST BE WASHED BEFORE DEPARTING

1
DP 947928

STOCKPILE AREA FOR SOIL RE-USE

METAL SHED
METAL ROOF

METAL BUILDING
TILE ROOF

B'DRY 59 740

MIN 500 HIGH SEDIMENT FENCE SUPPORTED AT 3000 MAX CTS WITH 1500 LONG STAR PICKETS. BASE OF SEDIMENT FENCE TO BE BURIED IN 200 DEEP x 100 WIDE TRENCH AND BACKFILL TO BE COMPACTED

PROVIDE SEDIMENT BARRIER AROUND ALL PITS DURING CONSTRUCTION. REFER TO DETAIL (TYPICAL)

RIDGE
RL:35.89

No. 60
ONE STOREY
BRICK HOUSE
TILE ROOF

EROSION AND SEDIMENT CONTROL PLAN

SCALE 1:100 @ A1

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PROJECT TITLE
ICMG MOSQUE

DRAWING TITLE
SEDIMENT AND EROSION CONTROL PLAN

CLIENT DETAILS
ICMG

SCALE	DESIGNED BY	SHEET
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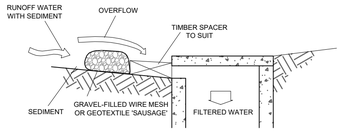
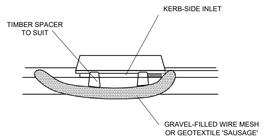
19018	SC-1000	

PLACE GRAVEL SAUSAGE AROUND THE NEAREST DOWNSTREAM COUNCIL STORMWATER PIT IN XXXXX STREET.

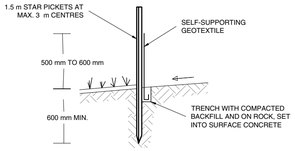




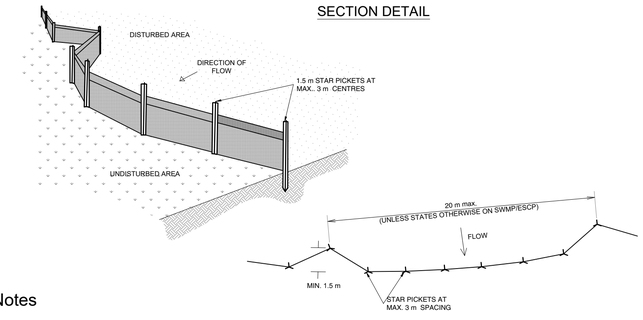
Construction Notes

1. INSTALL FILTERS TO KERB INLETS AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25 mm TO 50 mm GRAVEL.
3. FROM AND ELLIPTICAL CROSS-SECTION ABOUT 150 mm HIGH X 400 mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100 mm SPACE BETWEEN IT AND THE KERB INLET.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN BE SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

GRAVEL AND MESH INLET FILTER
(SOURCE:"SOILS AND CONSTRUCTION",LANDCOM,2004



SECTION DETAIL

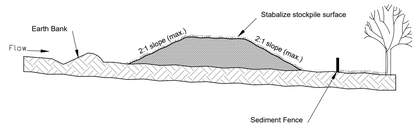


PLAN

Construction Notes

1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.
2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND, 3 METRES APART.
3. DIG A 150 MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
4. BACKFILL TRENCH OVER BASE OF FABRIC.
5. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILEMANUFACTURER.
6. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150 MM OVERLAP.

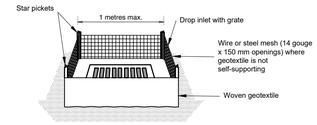
DETAIL - SEDIMENT FENCING
(SOURCE:"SOILS AND CONSTRUCTION",LANDCOM,2004

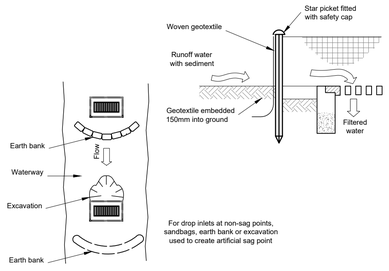


Construction Notes

1. Place stockpiles more than 2 (preferably 5) meters from existing vegetation, concentrated water flow, roads and hazard areas
2. Constructed on the contour as low, flat, elongated mounds.
3. Where there is sufficient area, topsoil stockpiles shall be less than 2 meters in height
4. Where thet are to be in place for more than 10 days, stabilize following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
5. Construct earth banks (Standard Drawings 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 meters downslope.

DETAIL - TOPSOIL STOCKPILE
(SOURCE:"SOILS AND CONSTRUCTION",LANDCOM,2004

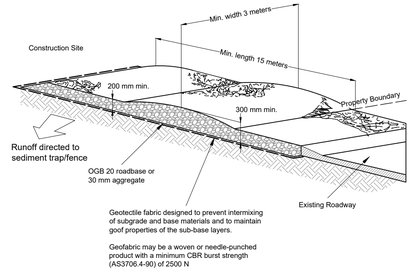




Construction Notes

1. Fabricate a sediment barrier made from geotectile or straw bales
2. In waterways, artificial sag points can be created with sandbags or earth banks as show in the drawing
3. Do no cover inlet with geotextile unless the design is adequate to allow for all waters to bypass it.

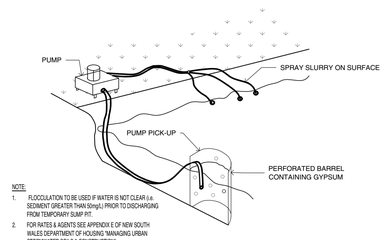
DETAIL - GEOTEXTILE INLET FILTER
(SOURCE:"SOILS AND CONSTRUCTION",LANDCOM,2004



Construction Notes

1. Strip the topsoil, level the site and compact the subgrade.
2. Cover the area with needle-punched geotextile.
3. Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
4. Ensure the structure is at least 15 meters long or to building alignment and at least 3 metres wide.
5. Where a sediment fence joins onto the stablised access, construct a hump in the stablised access to divert water to the sediment fence.

DETAIL - TEMPORARY STABILISED STIDE ACCESS
(SOURCE:"SOILS AND CONSTRUCTION",LANDCOM,2004



NOTE:
1. FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (i.e. SEDIMENT GREATER THAN 50mg/L) PRIOR TO DISCHARGING FROM TEMPORARY SUMP PIT.
2. FOR RATES & AGENTS SEE APPENDIX E OF NEW SOUTH WALES DEPARTMENT OF HOUSING 'MANAGING URBAN STORMWATER:SOILS & CONSTRUCTION'.

DETAIL - FLOCCULATION PUMP
(SOURCE:"SOILS AND CONSTRUCTION",LANDCOM,2004

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THIS SOIL AND WATER MANAGEMENT PLAN IS TO BE READ IN CONJUNCTION WITH OTHER ENGINEERING PLANS RELATING TO THIS DEVELOPMENT.
2. CONTRACTORS WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF 'MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION', DEPT OF HOUSING, 2004 (BLUE BOOK).
3. ALL SUBCONTRACTORS WILL BE INFORMED OF THEIRRESPONSIBILITIES IN REDUCING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE AREAS.

LAND DISTURBANCE INSTRUCTIONS

4. DISTURBANCE TO BE NO FURTHER THAN 5 (PREFERABLY METRES FROM THE EDGE OF ANY ESSENTIAL ENGINEERING ACTIVITY AS SHOWN ON APPROVED PLANS. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE ZONES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
5. ACCESS AREAS ARE TO BE LIMITED TO A MAXIMUM WIDTH OF 10 METRES THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON-SITE. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING DOWNSLOPE) OR SIMILAR MATERIALS.
6. ENTRY TO LANDS NOT REQUIRED FOR CONSTRUCTION OR ACCESS IS PROHIBITED EXCEPT FOR ESSENTIAL THINNING OF PLANT GROWTH.
7. WORKS ARE TO PROCEED IN THE FOLLOWING SEQUENCE.
   - A. INSTALL ALL BARRIER AND SEDIMENT FENCING WHERE SHOWN ON THE PLAN.
   - B. CONSTRUCT THE STABILISED SITE ACCESS.
   - C. CONSTRUCT DIVERSION DRAINS AS REQUIRED.
   - D. INSTALL MESH AND GRAVEL INLETS FOR ANY ADJACENT KERB INLETS.
   - E. INSTALL GEOTEXTILE INLET FLTERS AROUND ANY ON-SITE DROP INLET PITS.
   - F. CLEAR SITE AND STRIP AND STOCKPILE TOPSOIL IN LOCATIONS SHOWN ON THE PLAN.
   - G. UNDERTAKE ALL ESSENTIAL CONSTRUCTION WORKS ENSURING THAT ROOF AND/OR PAVED AREA STORMWATER SYSTEMS ARE CONNECTED TO PERMANENT DRAINAGE AS SOON AS PRACTICABLE.
   - H. GRADE LOT AREAS TO FINAL GRADES AND APPLY PERMANENT STABILISATION (LANDSCAPING) WITHIN 20 DAYS OF COMPLETION OF CONSTRUCTION WORKS.
   - I. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER THE PERMANENT LANDSCAPING HAS BEEN COMPLETED.
5. ENSURE THAT SLOPE LENGTHS DO NOT EXCEED 80 METRES WHERE PRACTICABLE. SLOPE LENGTHS ARE DETERMINED BY DI STATION FENCING AND CATCH DRAIN SPACING.
6. ON COMPLETION OF MAJOR WORKS LEAVE DISTURBED LANDS WITH A SCARIFIED SURFACE TO ENCOURAGE WATER INFILTRATION AND ASSIST WITH KEYING TOPSOIL LATER.

SITE MAINTENANCE INSTRUCTIONS

7. THE SITE SUPERINTENDENT WILL INSPECT THE SITE AT LEAST WEEKLY AND AT THE CONCLUSION OF EVERY STORM EVENT TO
   - A. ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS.
   - B. REMOVE SPILLED SAND OR OTHER MATERIALS FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 5 METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS ESPECIALLY WATERWAYS AND PAVED AREAS.
   - C. REMOVE TRAPPED SEDIMENT WHENEVER THE DESIGN CAPACITY OF THAT STRUCTURE HAS BEEN EXCEEDED.
   - D. ENSURE REHABILITATED LANDS HAVE EFFECTIVELY REDUCED THE EROSION HAZARD AND TO INITIATE UPGRADING OR REPAIR AS NECESSARY.
   - E. CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS MIGHT BECOME NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS. MAKE ONGOING CHANGES TO THE PLAN WHERE IT PROVES INADEQUATE IN PRACTICE OR IS SUBJECTED TO CHANGES IN CONDITIONS ON THE WORK-SITE OR ELSEWHERE IN THE CATCHMENT.
   - F. MAINTAIN EROSION AND SEDIMENT CONTROL STRUCTURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS REHABILITATED.
8. THE SITE SUPERINTENDENT WILL KEEP A LOGBOOK MAKING ENTRIES AT LEAST WEEKLY, IMMEDIATELY BEFORE FORECAST RAIN AND AFTER RAINFALL. ENTRIES WILL INCLUDE.
   - A. THE VOLUME AND INTENSITY OF ANY RAINFALL EVENTS.
   - B. THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS.
   - C. THE CONDITION OF VEGETATION AND ANY NEED TO IRRIGATE,
   - D. THE NEED FOR DUST PREVENTION STRATEGIES.
   - E. ANY REMEDIAL WORKS TO BE UNDERTAKEN.

THE LOGBOOK WILL BE KEPT ON-SITE AND MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. IT WILL BE GIVEN TO THE PROJECT MANAGER AT THE CONCLUSION OF THE WORKS.

SEDIMENT CONTROL INSTRUCTIONS

9. SEDIMENT FENCES WILL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AT THE DISCRETION OF THE SITE SUPERINTENDENT TO CONTAIN SOIL AS NEAR AS POSSIBLE TO THEIR SOURCE.
10. SEDIMENT FENCES WILL NOT HAVE CATCHMENT AREAS EXCEEDING 900 SQUARE METRES AND HAVE A STORAGE DEPTH OF AT LEAST 0.6 METRES.
11. SEDIMENT REMOVED FROM ANY TRAPPING DEVICES WILL BE RELOCATED WHERE FURTHER POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS CANNOT OCCUR.
12. STOCKPILES ARE NOT TO BE LOCATED WITHIN 5 METRES OF HAZARD AREAS INCLUDING AREAS OF HIGH VELOCITY FLOWS SUCH AS WATERWAYS, PAVED AREAS AND DRIVEWAYS.
13. WATER WILL BE PREVENTED FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR WATER HAS BEEN TREATED BY AN APPROVED DEVICE.
14. TEMPORARY SEDIMENT TRAPS WILL REMAIN IN PLACE UNTIL AFTER THE LANDS THEY ARE PROTECTING ARE COMPLETELY REHABILITATED.
15. ACCESS TO SITES SHOULD BE STABILISED TO REDUCE THE LIKELIHOOD OF VEHICLES TRACKING SOIL MATERIALS ONTO PUBLIC ROADS AND ENSURE ALL-WEATHER ENTRY/EXIT.

SOIL EROSION CONTROL INSTRUCTIONS

16. EARTH BATTERS WILL BE CONSTRUCTED WITH AS LOW A
    - GRADIENT AS PRACTICABLE BUT NO STEEPER, UNLESS OTHERWISE NOTED, THAN:
    - 2(H):1(V) WHERE SLOPE LENGTH LESS THAN 12 METRES
    - 2.5(H):1(V) WHERE SLOPE LENGTH BETWEEN 12 AND 16 METRES.
    - 3(H):1(V) WHERE SLOPE LENGTH BETWEEN 16 AND 24 METRES.
    - 4(H):1(V) WHERE SLOPE LENGTH GREATER THAN 30 METRES.
17. ALL WATERWAYS, DRAINS, SPILLWAYS AND THEIR OUTLETS WILL BE CONSTRUCTED TO BE STABLE IN AT LEAST THE 1:20 YEAR ARI, TIME OF CONCENTRATION STORM EVENT.
18. WATERWAYS AND OTHER AREAS SUBJECT TO CONCENTRATED FLOWS AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUNDCOVER C-FACTOR OF 0.05 (70% GROUND COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION. FLOW VELOCITIES ARE TO BE LIMITED TO THOSE SHOWN IN TABLE 5.1 OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION', DEPT OF HOUSING 2004 (BLUE BOOK). FOOT AND VEHICULAR TRAFFIC WILL BE PROHIBITED IN THESE AREAS.
19. STOCKPILES AFTER CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.1 (60% GROUND-COVER) WITHIN 10 WORKING DAYS FROM COMPLETION OF FORMATION.
20. ALL LANDS, INCLUDING WATERWAYS AND STOCKPILES, DURING CONSTRUCTION ARE TO HAVE A MAXIMUM GROUND-COVER C-FACTOR OF 0.15 (50% GROUND-COVER) WITHIN 20 WORKING DAYS FROM INACTIVITY EVEN THOUGH WORKS MAY CONTINUE LATER.
21. FOR AREAS OF SHEET FLOW USE THE FOLLOWING GROUND COVER PLANT SPECIES FOR TEMPORARY JAPANESE MILLET 20 KG/HA AND OATS 20 KG/HA.
22. PERMANENT REHABILITATION OF LANDS AFTER CONSTRUCTION WILL ACHIEVE A GROUND-COVER C-FACTOR OF LESS THAN 0.1 AND LESS THAN 0.05 WITHIN 60 DAYS. NEWLY PLANTED LANDS WILL BE WATERED REGULARLY UNTIL AN EFFECTIVE COVER IS ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. FOLLOW-UP SEED AND FERTILISER WILL BE APPLIED AS NECESSARY.
23. REVEGETATION SHOULD BE AIMED AT RE-ESTABLISHING NATURAL SPECIES. NATURAL SURFACE SOILS SHOULD BE REPLACED AND NON-PERSISTENT ANNUAL COVER CROPS SHOULD BE USED.

WASTE CONTROL INSTRUCTIONS

24. ACCEPTABLE BINS WILL BE PROVIDED FOR ANY CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING, LIGHTWEIGHT WASTE MATERIALS AND LITTER. CLEARANCE SERVICES WILL BE PROVIDED AT LEAST DISPOSAL OF WASTE WILL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
25. ALL POSSIBLE POLLUTANT MATERIALS ARE TO BE STORED WELL CLEAR OF ANY POORLY DRAINED AREAS, FLOOD PRONE AREAS, STREAMBANKS, CHANNELS AND STORMWATER DRAINAGE AREAS. STORE SUCH MATERIALS IN A DESIGNATED AREA UNDER COVER WHERE POSSIBLE AND WITHIN CONTAINMENT BUNDS.
26. ALL SITE STAFF AND SUB-CONTACTORS ARE TO BE INFORMED OF THEIR OBLIGATION TO USE WASTE CONTROL FACILITIES PROVIDED.
27. ANY DE-WATERING ACTIVITIES ARE TO BE CLOSELY MONITORED TO ENSURE THAT WATER IS NOT POLLUTED BY SEDIMENT, TOXIC MATERIALS OR PETROLEUM PRODUCTS.
28. PROVIDE DESIGNATED VEHICULAR WASHDOWN AND MAINTENANCE AREAS WHICH ARE TO HAVE CONTAINMENT BUNDS.

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