

HARRIS PAGE & ASSOCIATES


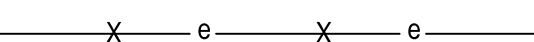


HAKE HARRIS REFURBISHMENT

THE KING'S SCHOOL

PARRAMATTA NSW 2151

STORMWATER CONCEPT PLAN




















PIPEWORK

	EXISTING SERVICES
	REDUNDANT SERVICES TO BE REMOVED
	STORMWATER DRAINAGE
	SUB-SOIL DRAINAGE

DRAWING SCHEDULE

DWG No.	Scale	Drawing Title
SW-00	NTS	STORMWATER SERVICES COVER SHEET, LEGEND & DRAWING SCHEDULE
SW-01	1:100	STORMWATER SERVICES GROUND FLOOR PLAN
SW-02	1:100	STORMWATER SERVICES FIRST FLOOR PLAN
SW-03	1:100	STORMWATER SERVICES ROOF PLAN
SW-04	NTS	STORMWATER SERVICES DETAIL SHEET
SW-05	NTS	STORMWATER SERVICES SEDIMENT AND EROSION CONTROL PLAN

SYMBOLS

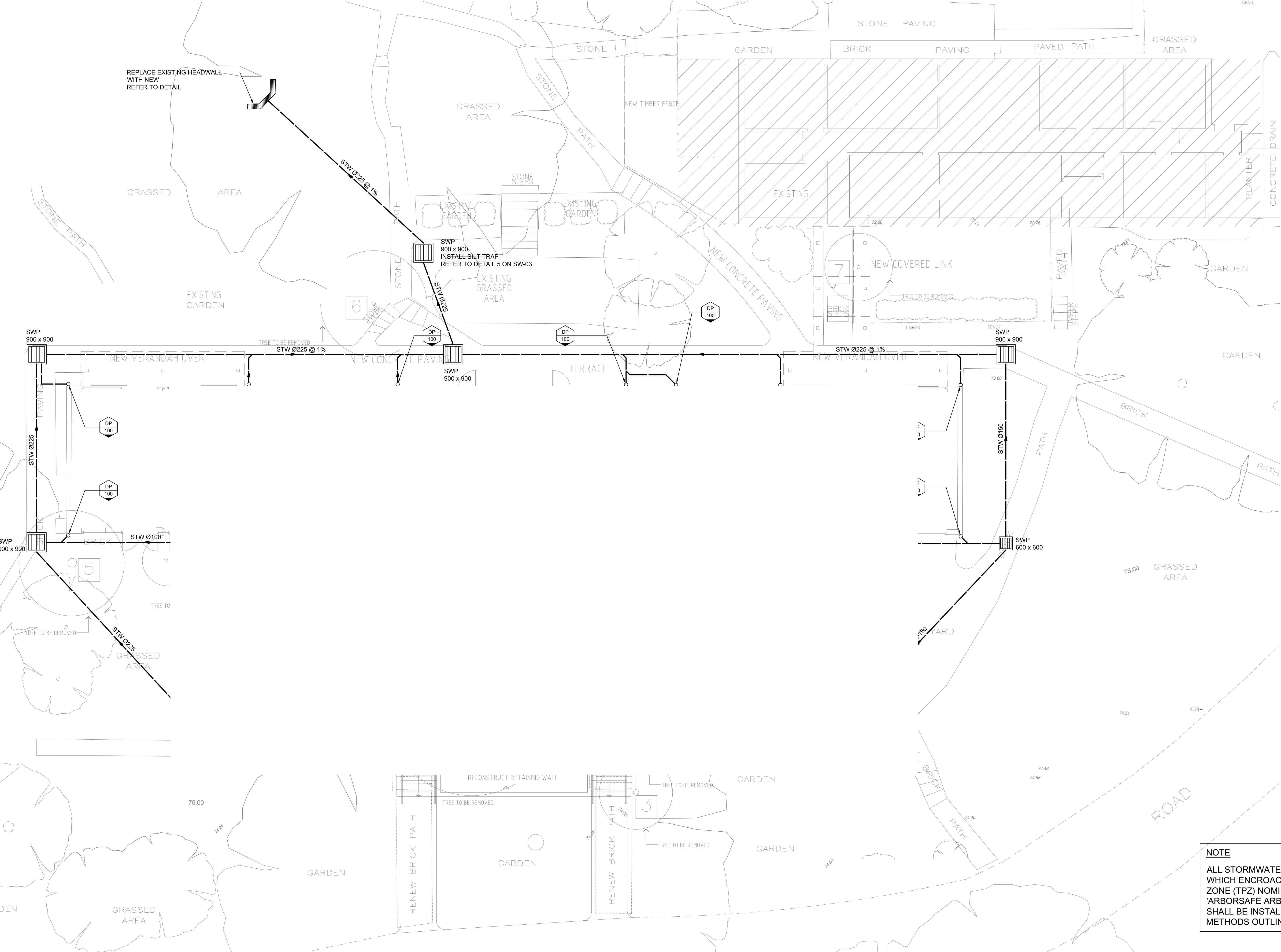
	RISER
	DROPPER
	TEE DROPPER
	PIPEWORK CAP
	DIRECTION ARROW
	NEW CONNECTION
	DIRECTION OF FLOW
	CONTINUATION
	TERMINATOR 1
	REFLUX VALVE
	OVERLAND FLOW
	SPREADER
	RAIN WATER OUTLET
	CLEAROUT
	CLEAROUT
	GRATED TRENCH DRAIN
	STORMWATER GRATED PIT
	STORMWATER PIT COVER
	SEWER MAN HOLE
	RISER
	SERVICE TYPE SERVICE SIZE
	DROPPER

ABBREVIATIONS

A/B	ABOVE	MM	MILLIMETERS
@	AT	N.T.S	NOT TO SCALE
BDO	BALCONY DRAINAGE OUTLET	O/F	OVER FLOW
CIS	CAST IN SLAB	%	PERCENTAGE
CO	CLEAROUT	PDO	PLANTER DRAIN OUTLET
CONT	CONTINUATION	RL	REDUCED LEVEL
D	DEPTH	RWR	RAINWATER RE-USE
DIA	DIAMETER	RWO	RAINWATER OUTLET
DP	DOWNPIPE	RV	REFLUX VALVE
e	EXISTING	SRM	SEWER RISING MAIN
H/L	HIGH LEVEL	SS	SUB SOIL DRAINAGE
HP	HIGH POINT	S/STEEL	STAINLESS STEEL
IL	INVERT LEVEL	SSRM SUB	SOILRISING MAIN
KIP	KERB INLET PIT	STW	STORMWATER
L	LITRE	SV	STOP VALVE
L/L	LOW LEVEL	SWP	STORMWATER PIT
L/s	LITRES PER SECOND	SWRM	STORMWATER RISING MAIN
m	METRES	U/S	UNDERSIDE
MAX	MAXIMUM	UV	ULTRA-VIOLET
MIN	MINIMUM		

SERVICES ON THIS
DRAWING ARE
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STRATA (UNLESS
NOTED OTHERWISE).

REFERENCE DRAWINGS			
STRUCT			
MECH			
ELEC			
RCP			
ARCH	1727 DA02	D	05.12.17
DISCIPLINE	DRAWING NUMBER	REV	DATE



NOTE
ALL STORMWATER DRAINAGE SERVICES WHICH ENCROACH ON TREE PROTECTION ZONE (TPZ) NOMINATED WITHIN THE 'ARBORSAFE ARBORIST REPORT ASTPP01' SHALL BE INSTALLED IN ACCORDANCE WITH METHODS OUTLINED WITHIN SAID REPORT.

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C	REVISED DA SUBMISSION		07.12.17
B	FOR REVIEW		05.12.17
A	DA SUBMISSION		13.10.17
ISSUE	AMENDMENT		DATE

CLIENT
THE KING'S SCHOOL
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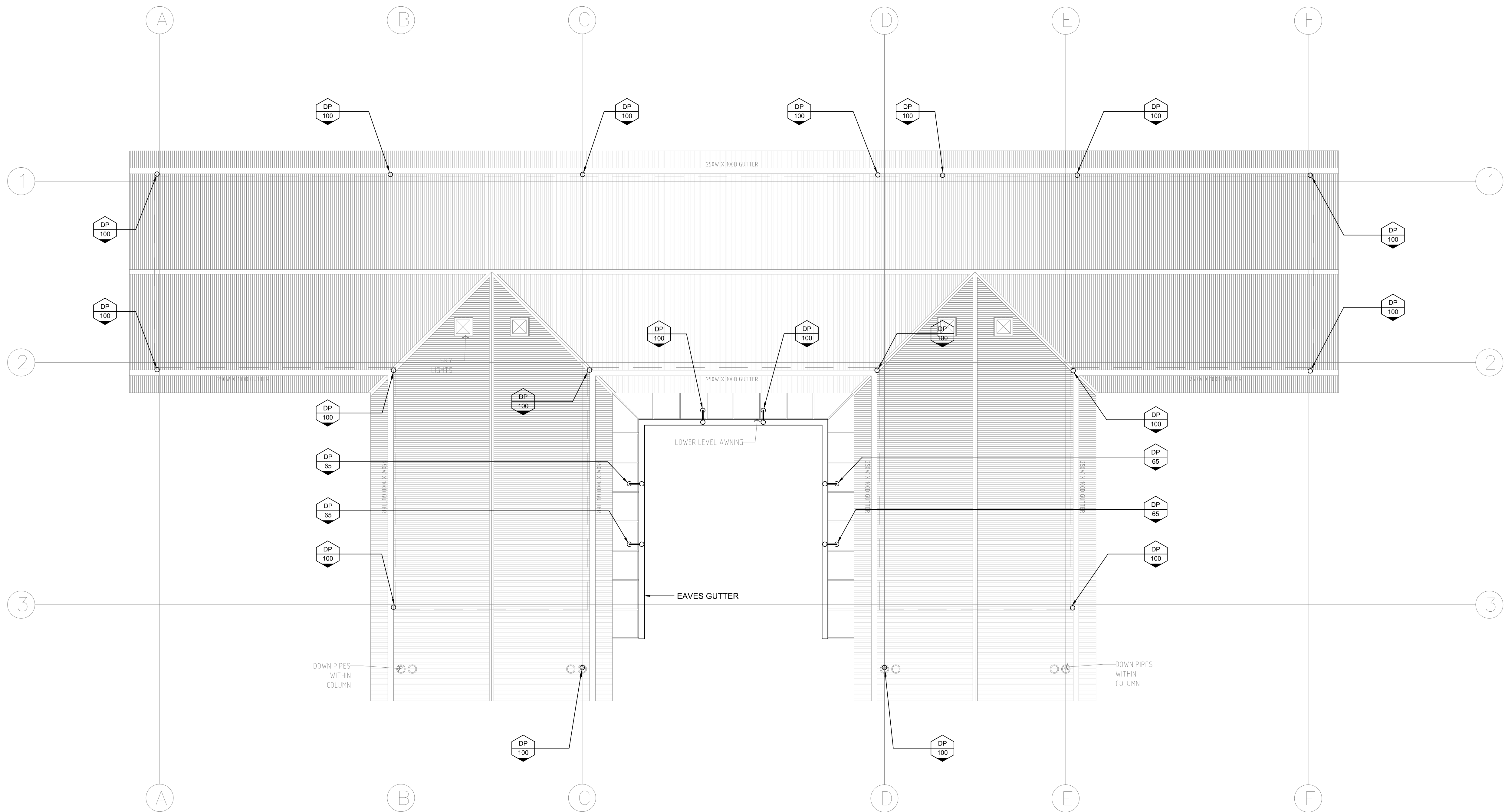
PROJECT
**HAKE HARRIS
REFURBISHMENT
THE KING'S SCHOOL
PARRAMATTA NSW 2151**

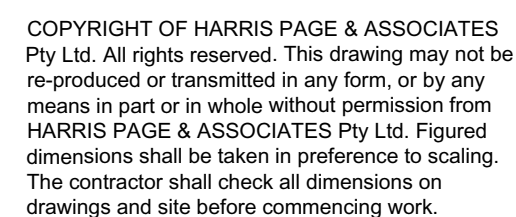
DRAWING TITLE
**STORMWATER SERVICES
GROUND FLOOR PLAN**

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2017	DC/EK	DP	2 OF 6	1:100 @ A1
PROJECT No. 6186		DRAWING No. SW-01		REVISION C

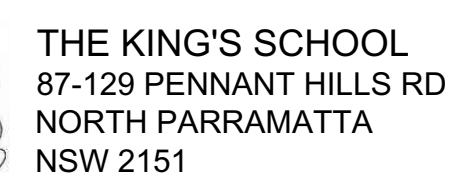
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REFERENCE DRAWINGS			
STRUCT			
MECH			
ELEC			
RCP			
ARCH	ROOF PLAN	-	NOV. 2017
DISCIPLINE	DRAWING NUMBER	REV	DATE





CLIENT



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PROJECT

HAKE HARRIS
REFURBISHMENT
THE KING'S SCHOOL
PARRAMATTA NSW 2151





DRAWING TITLE

STORMWATER SERVICES DETAIL SHEET

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2017	DC/EK	DP	4 OF 6	1:100 @ A1
PROJECT No.		DRAWING No.		REVISION
6186		SW-04		C

HARRIS PAGE & ASSOCIATES
MACARTHUR REFURBISHMENT
THE KING'S SCHOOL
PARRAMATTA NSW 2151
STORMWATER CONCEPT PLAN



















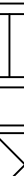

PIPEWORK

	EXISTING SERVICES
	REDUNDANT SERVICES TO BE REMOVED
	STORMWATER DRAINAGE
	SUB-SOIL DRAINAGE

DRAWING SCHEDULE

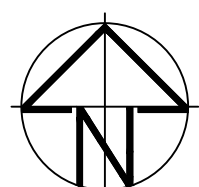
DWG No.	Scale	Drawing Title
SW-00	NTS	STORMWATER SERVICES COVER SHEET, LEGEND & DRAWING SCHEDULE
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SW-03	1:100	STORMWATER SERVICES ROOF PLAN
SW-04	NTS	STORMWATER SERVICES DETAIL SHEET
SW-05	NTS	STORMWATER SERVICES SEDIMENT AND EROSION CONTROL PLAN

SYMBOLS

	RISER
	DROPPER
	TEE DROPPER
	PIPEWORK CAP
	DIRECTION ARROW
	NEW CONNECTION
	DIRECTION OF FLOW
	CONTINUATION
	TERMINATOR 1
	REFLUX VALVE
	OVERLAND FLOW
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	SERVICE TYPE
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B	FOR REVIEW	05.12.17
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ISSUE	AMENDMENT	DATE



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PROJECT

MACARTHUR
REFURBISHMENT
THE KING'S SCHOOL
PARRAMATTA NSW 2151

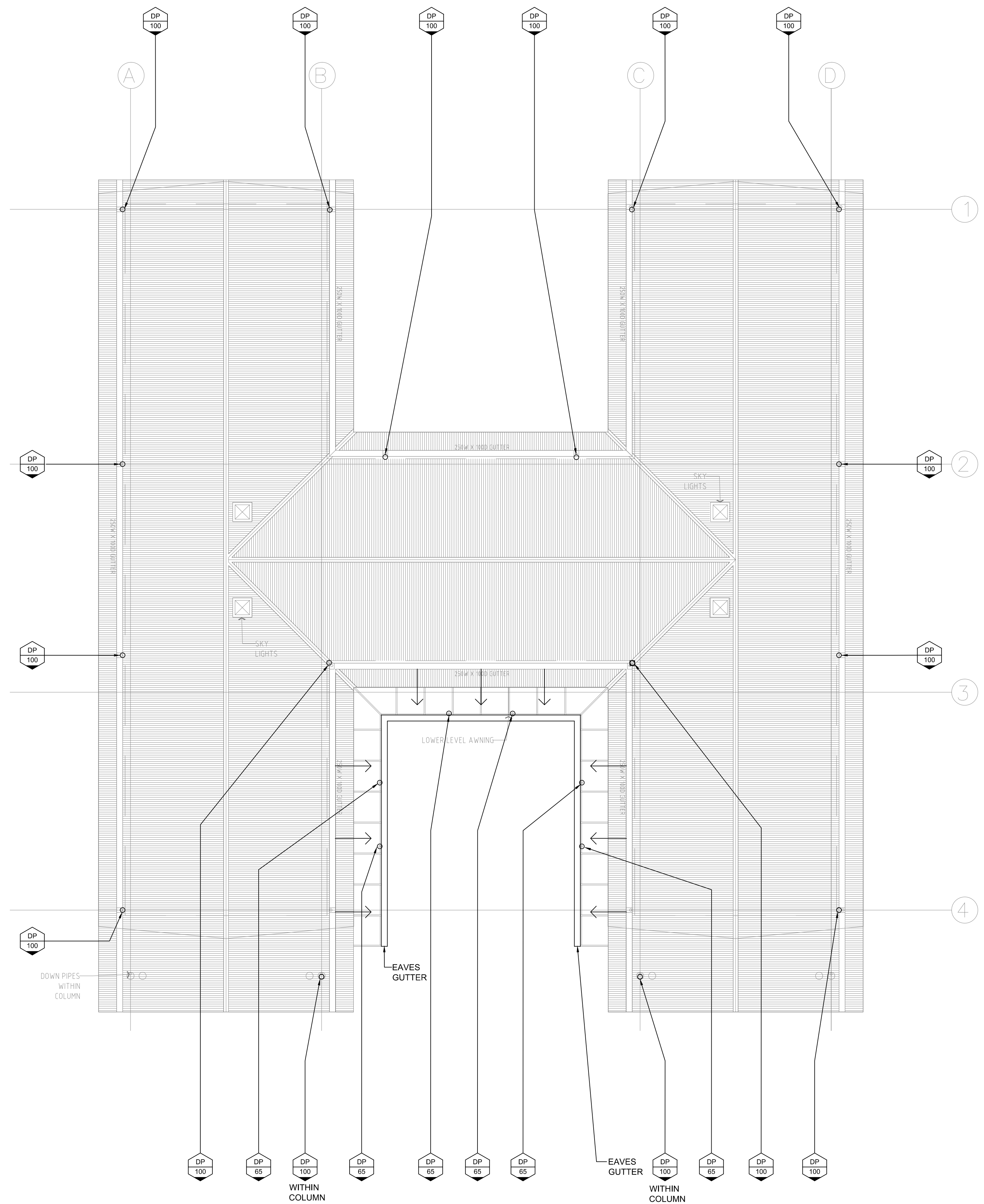
DRAWING TITLE

**STORMWATER SERVICES
COVER SHEET, LEGEND
& DRAWING SCHEDULE**

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2017	DC/EK	DP	1 OF 6	NTS @ A1
PROJECT No.		DRAWING No.		REVISION
6186		SW-00		C

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REFERENCE DRAWINGS			
STRUCT			
MECH			
ELEC			
RCP			
ARCH	1728 CD06		NOV. 2017
DISCIPLINE	DRAWING NUMBER	REV	DATE



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CLIENT

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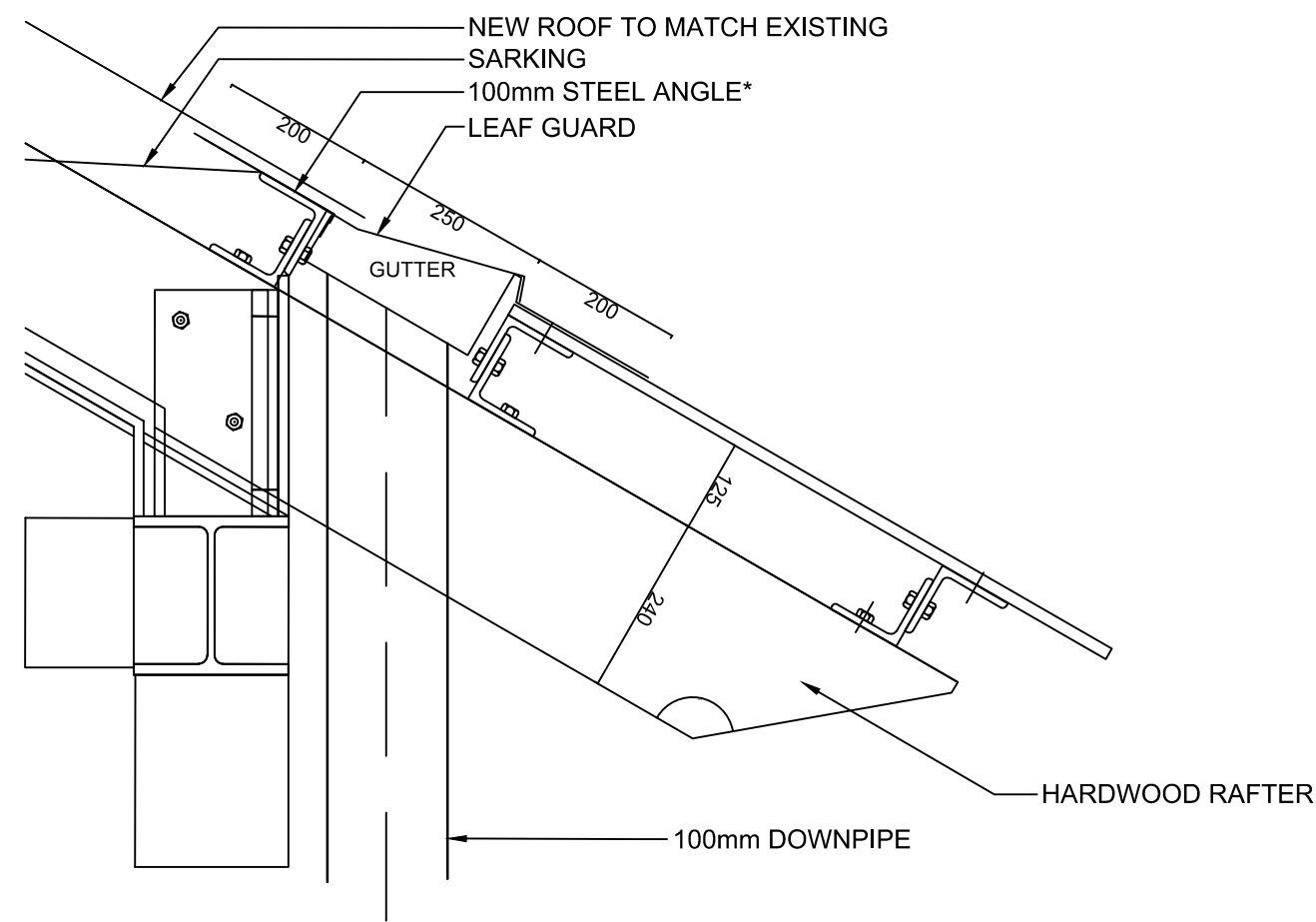
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PARRAMATTA NSW 2151

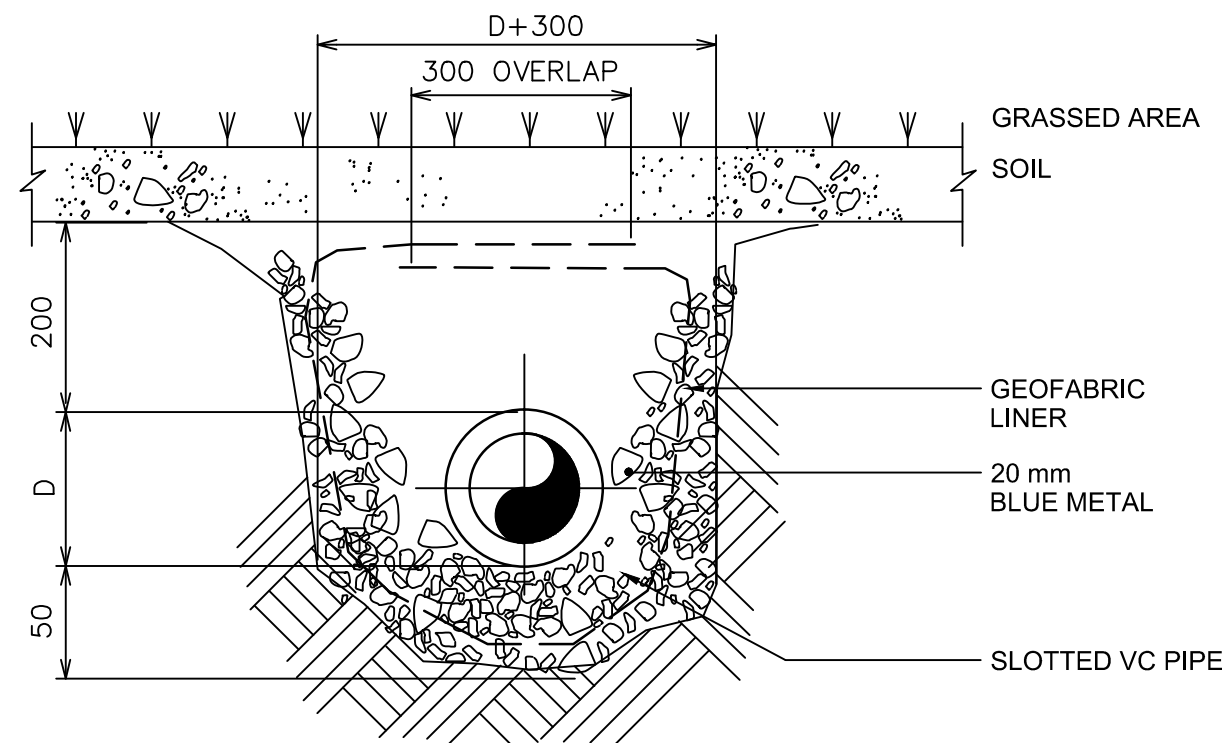
DRAWING TITLE

STORMWATER SERVICES
ROOF PLAN

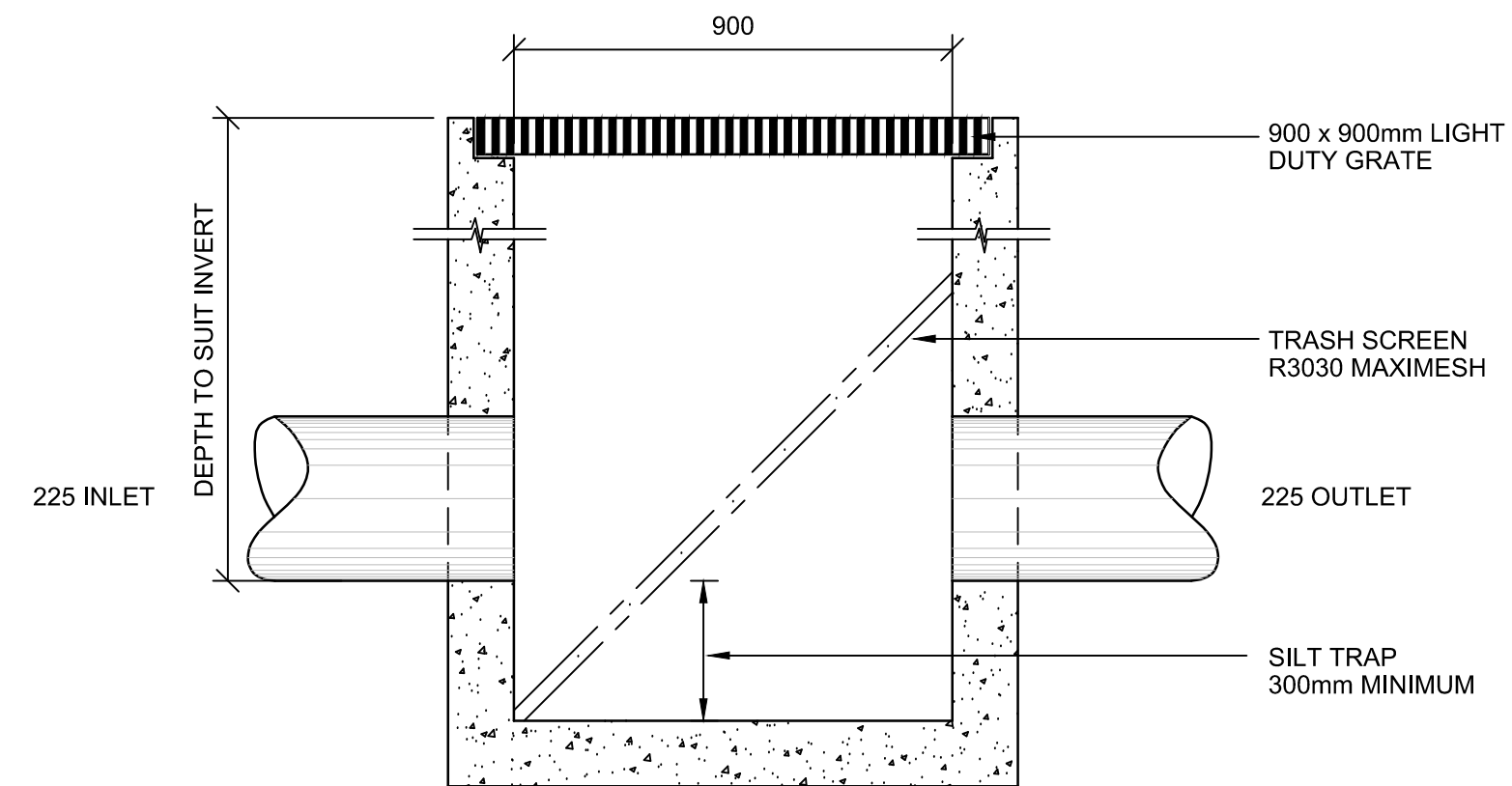
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DEC. 2017	DC/EK	DP	4 OF 6	1:100 @ A1
PROJECT No.		DRAWING No.		REVISION
6186		SW-03		B



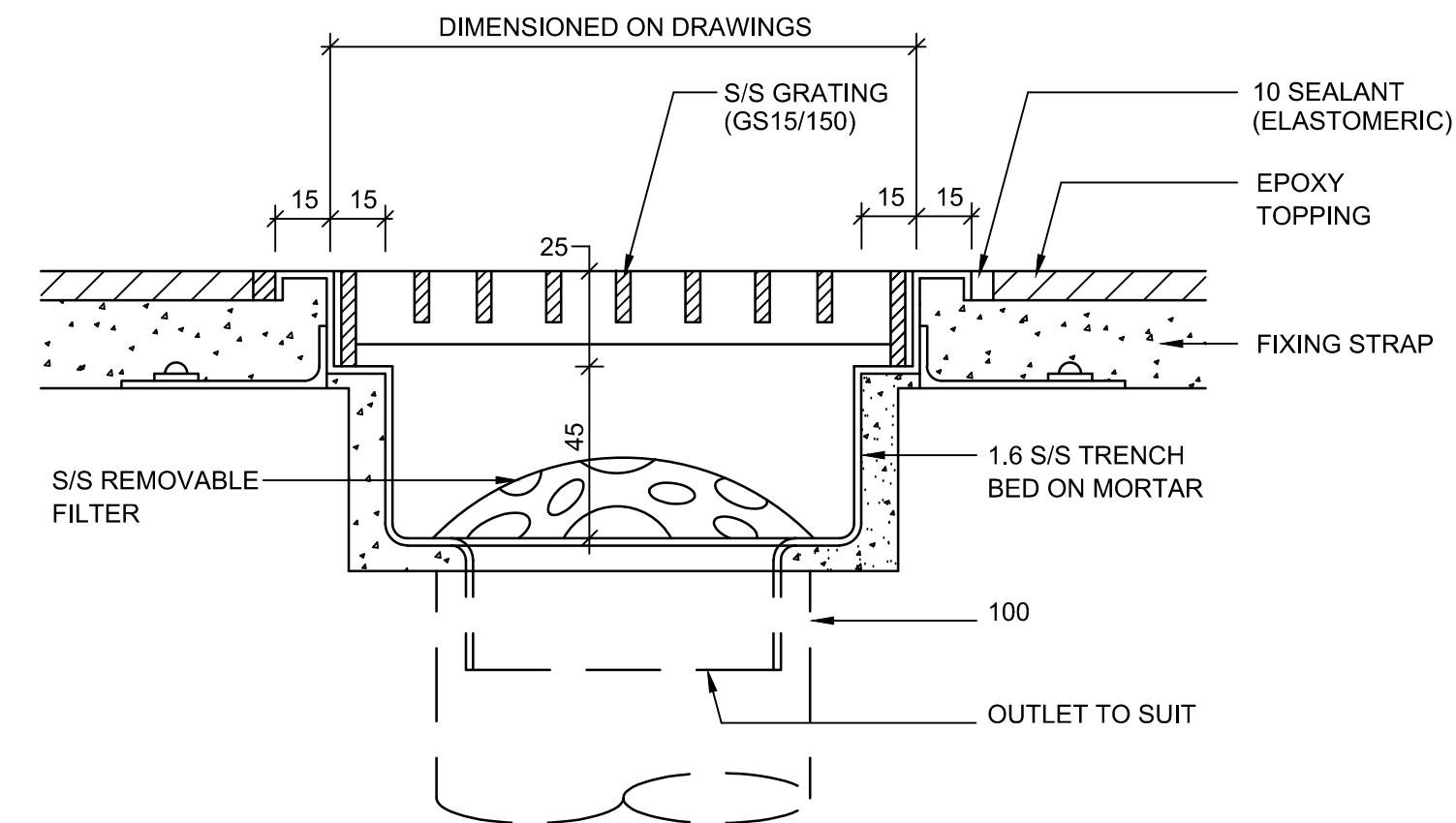
D1
SW04 TYPICAL EAVES GUTTER DOWNPIPE CONNECTION DETAIL
NTS



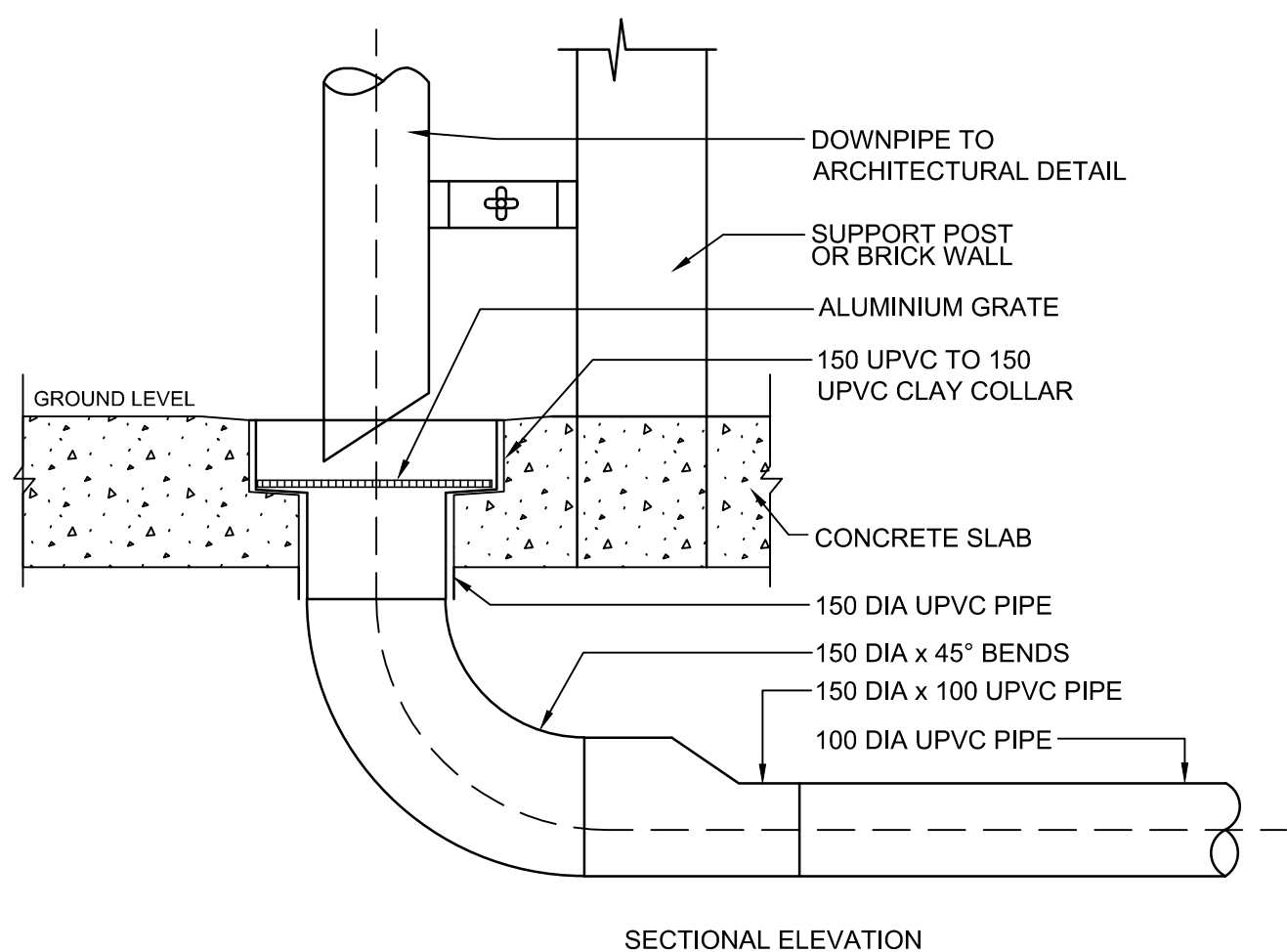
D3
SW02 SUB SOIL DRAINAGE TRENCH CONDITIONS
NTS



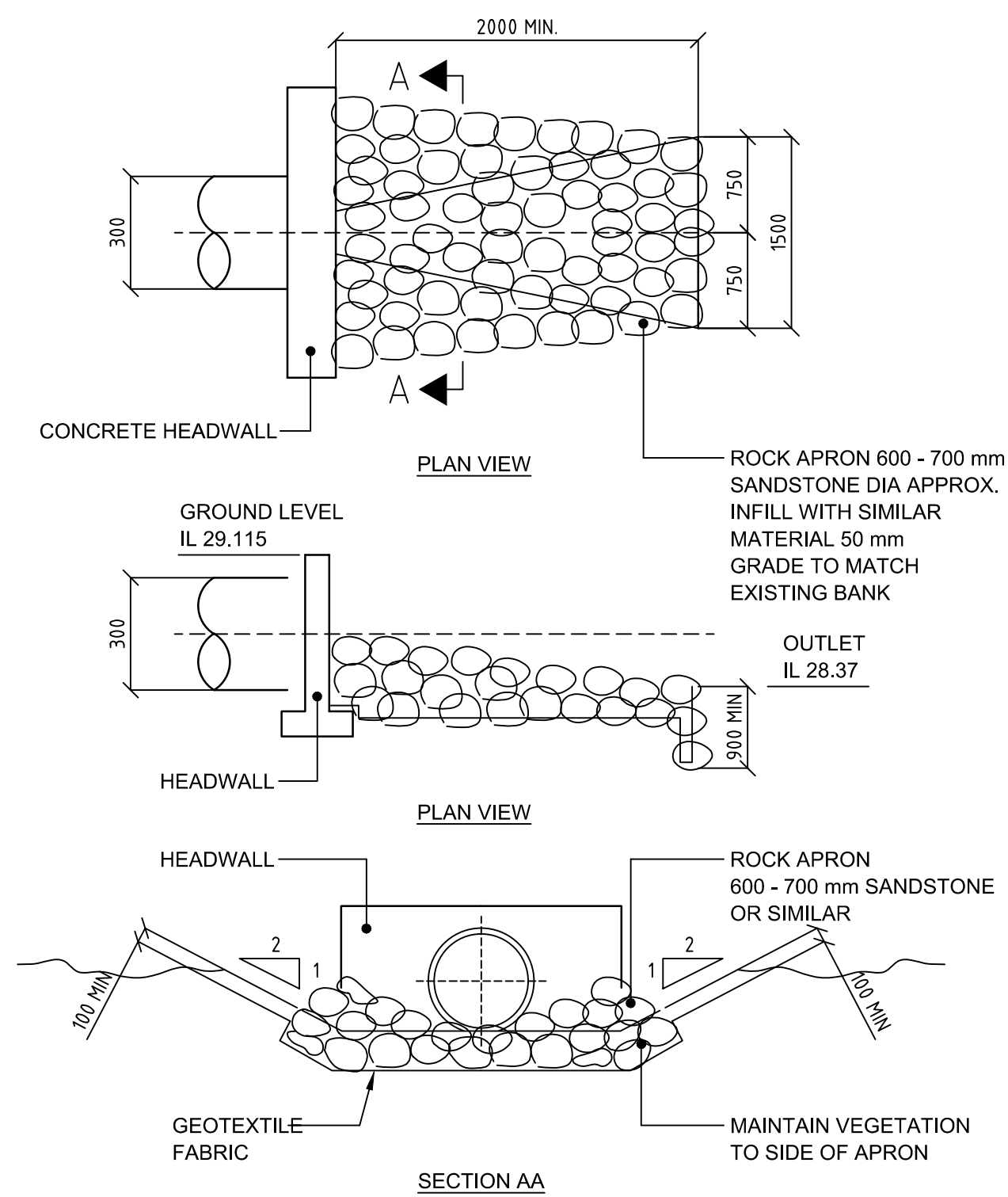
D5
SW02 SW SUMP WITH SILT TRAP & TRASH SCREEN
NTS



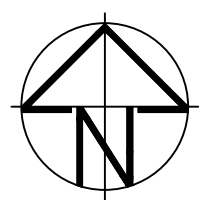
D6
SW05 STAINLESS STEEL TRENCH GRATE DETAIL
NTS



D2
SW05 TYPICAL DOWNPIPE CONNECTION
NTS

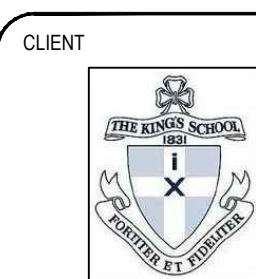


D4
SW01 HEADWALL DETAIL
NTS



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NSW 2151

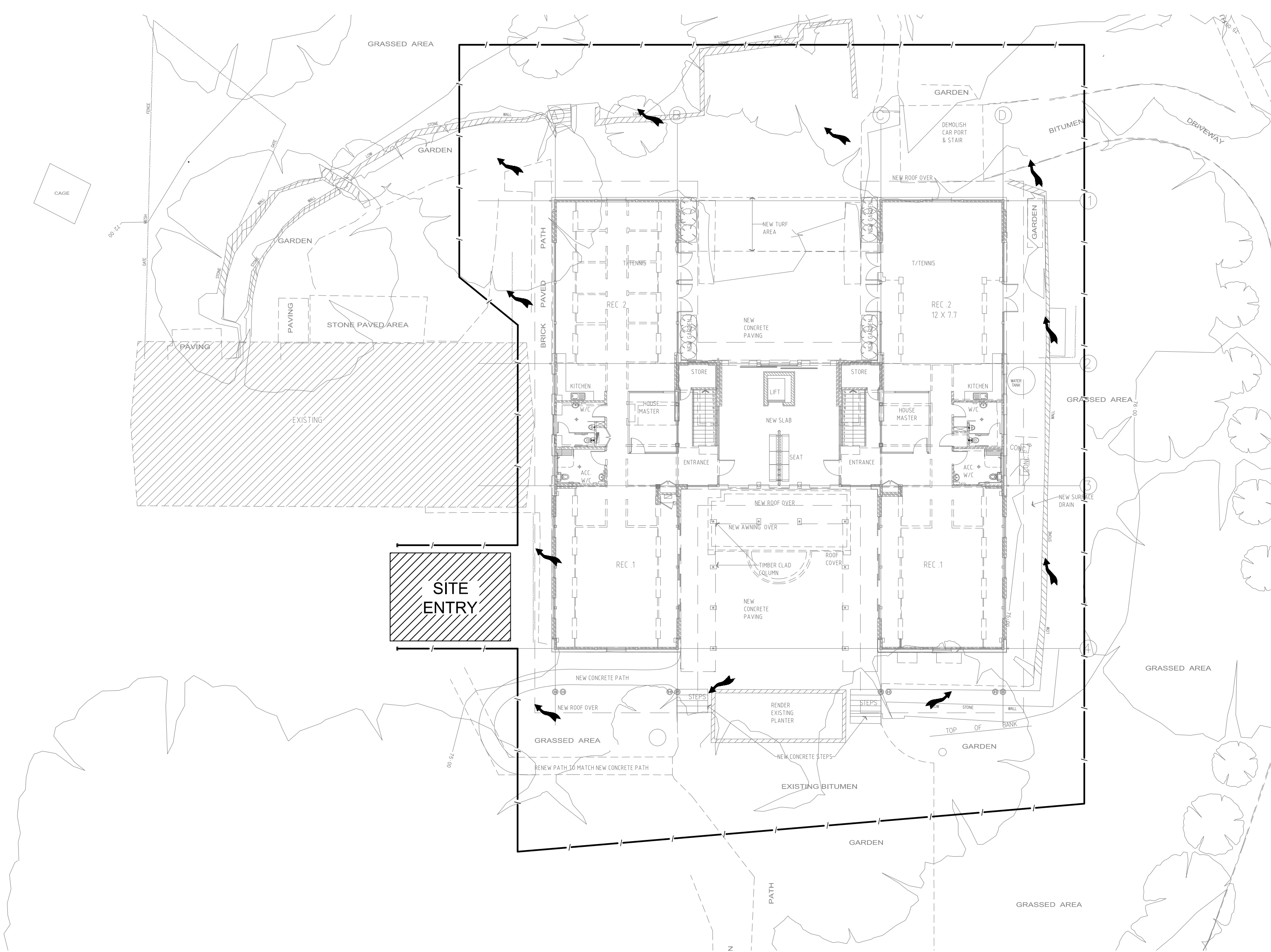
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PROJECT
MACARTHUR
REFURBISHMENT
THE KING'S SCHOOL
PARRAMATTA NSW 2151

DRAWING TITLE
STORMWATER SERVICES
DETAIL SHEET

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2017	DC/EK	DP	5 OF 6	1:100 @ A1
PROJECT No.	DRAWING No.	REVISION		
6186	SW-04	C		

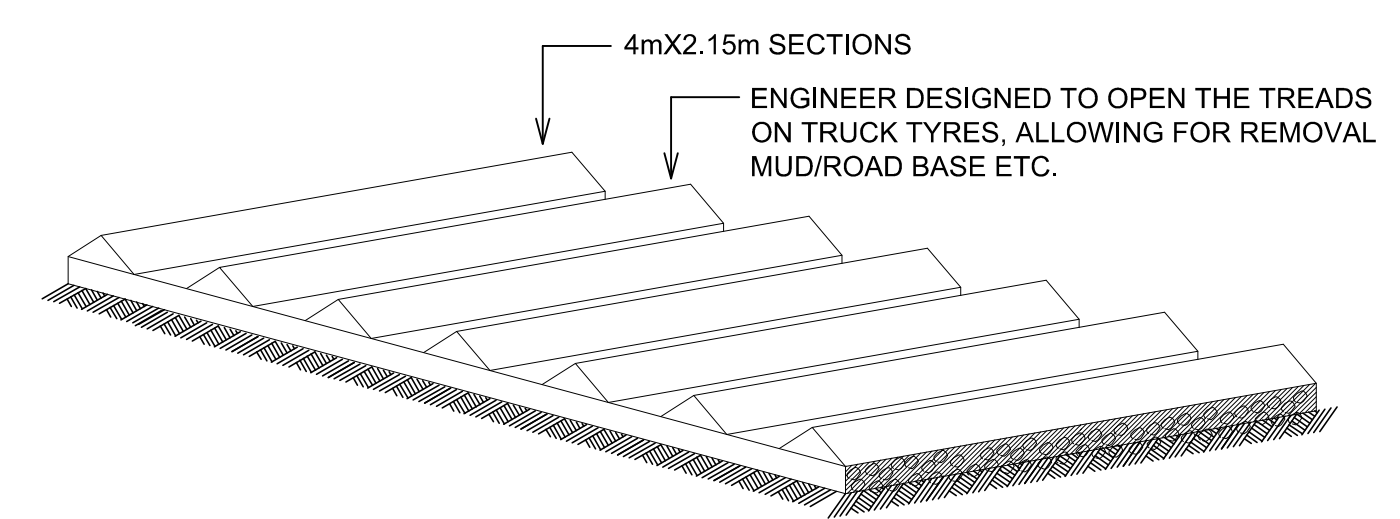
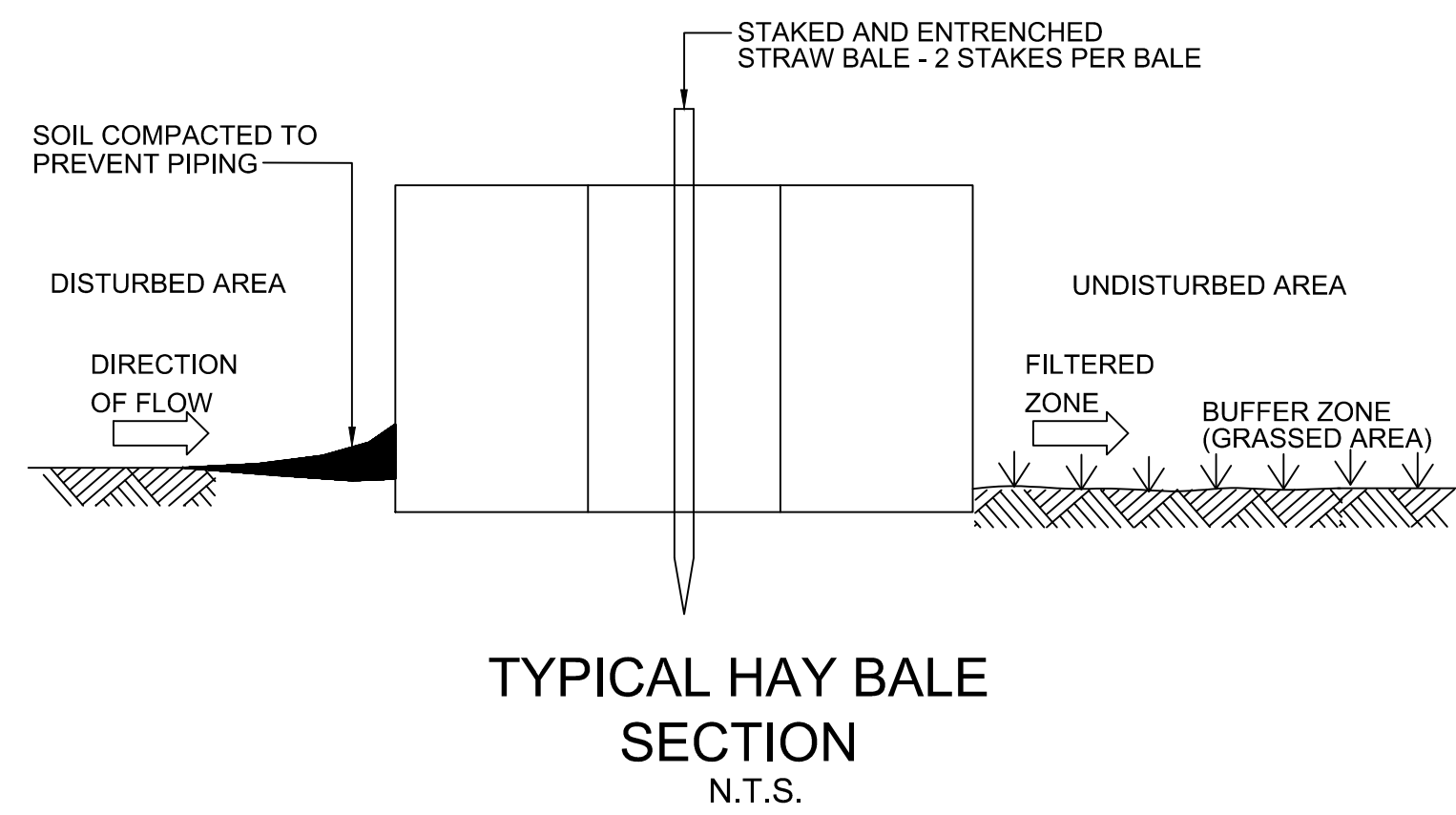
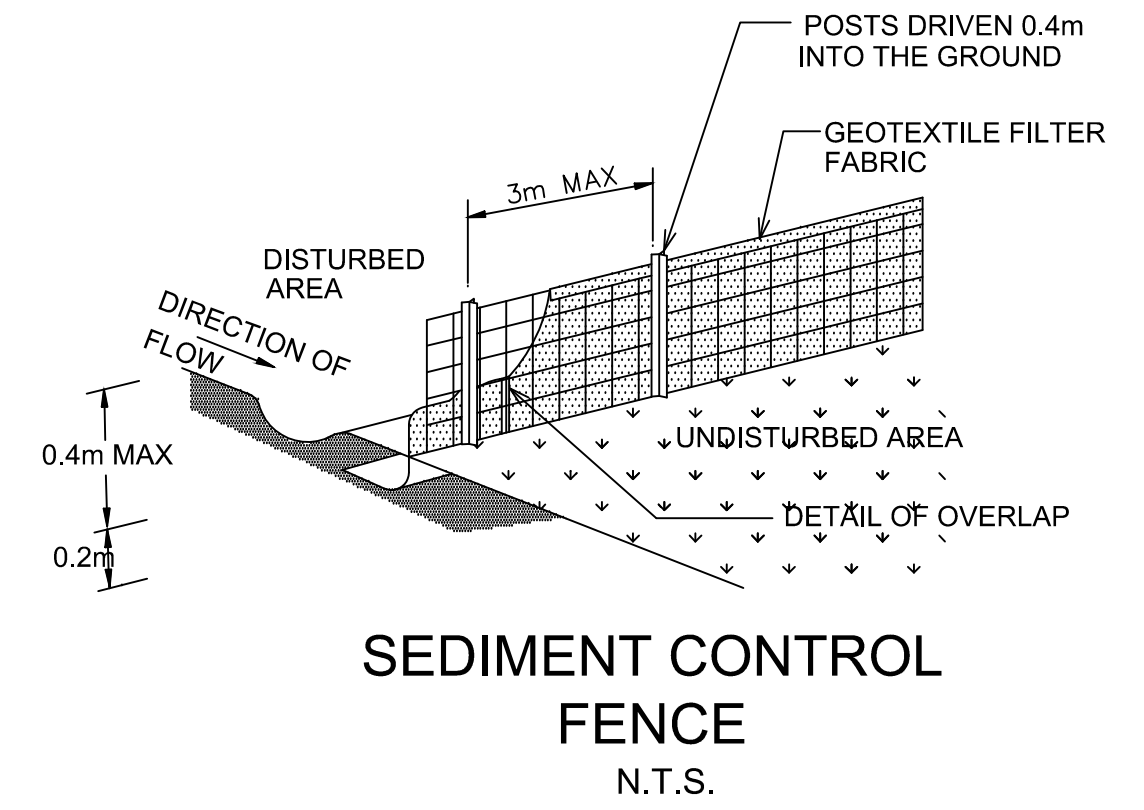
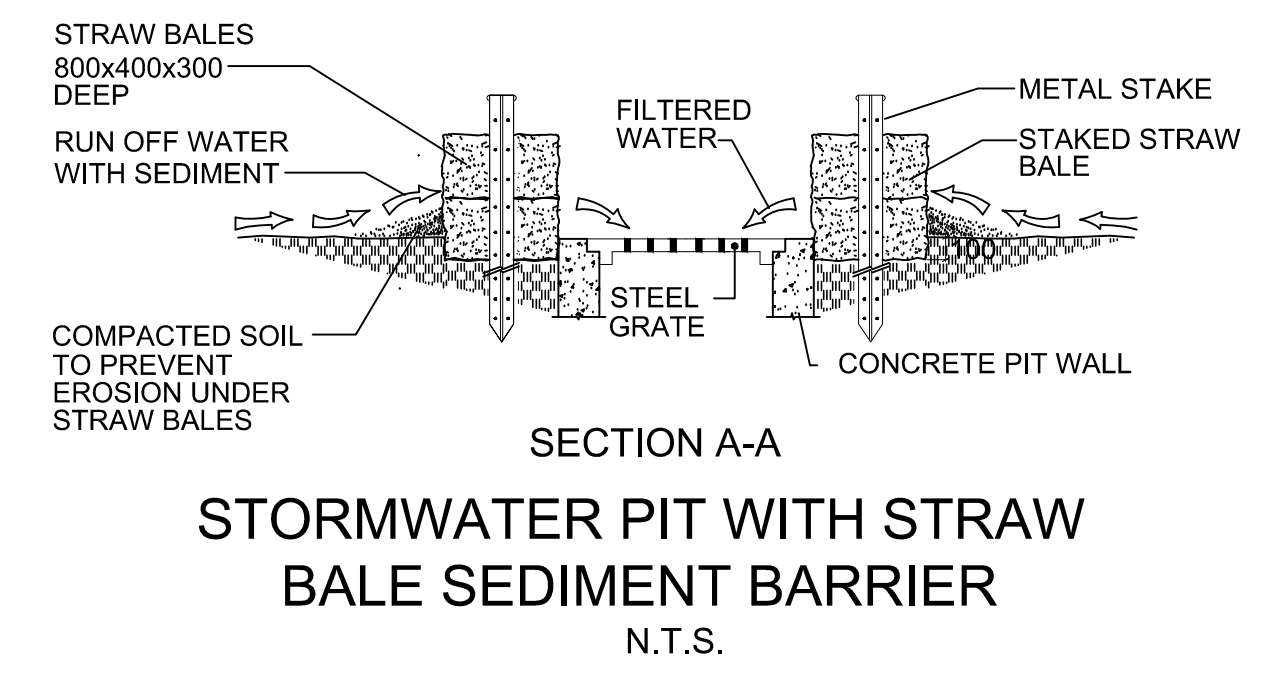
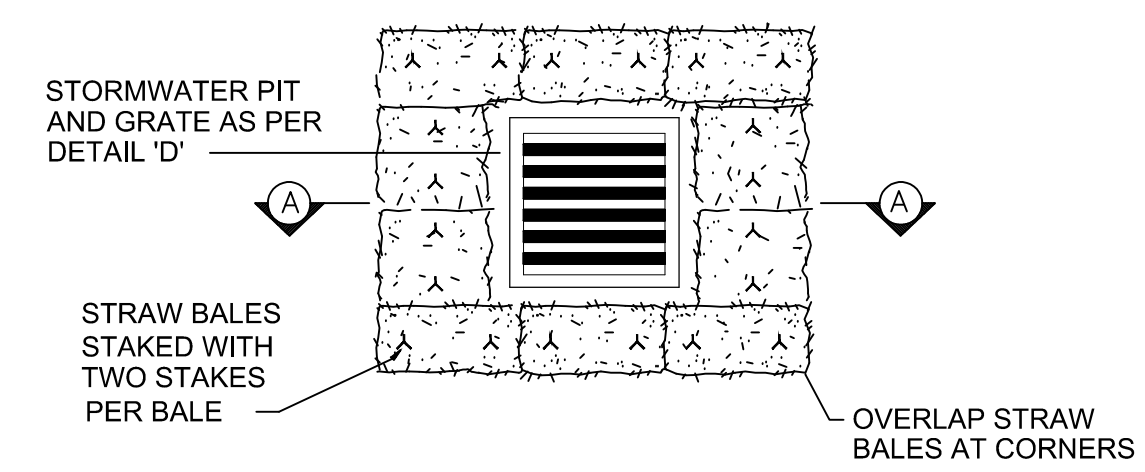


SEDIMENT & EROSION CONTROL NOTES:

- THIS PLAN SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL AND ENGINEERING PLANS AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED.
- THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS SHOWN ON THIS DRAWING.
- PROTECT ALL NEW PITS FROM SEDIMENT INFILTRATION PROGRESSIVELY, AS THEY ARE CONSTRUCTED.
- ALL DOWNSTREAM STORMWATER PITS ARE TO BE PROTECTED FROM SEDIMENT INFILTRATION DURING CONSTRUCTION.
- ALL SUB-CONTRACTORS ON SITE SHALL BE MADE AWARE OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO WATER COURSES AND WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO ACHIEVE,WORKS SHOULD BE CARRIED OUT AS FOLLOWS
 - INSTALL ANY NECESSARY SECURITY/BOUNDARY FENCES FOR THE SITE
 - CONSTRUCT "SILT" FENCING AS DETAILED ALONG BOTH DOWNSLOPE BOUNDARIES.
- DURING WINDY WEATHER, LARGE UNPROTECTED AREAS SHALL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- FINAL SITE LANDSCAPING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE, AND WITHIN TWENTY WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
- SAND USED IN THE CONCRETE CURING PROCESS SHALL BE REMOVED ASAP, AND WITHIN TEN WORKING DAYS FROM PLACEMENT.
- WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM, UNLESS IT IS RELATIVELY SEDIMENT-FREE;ie. THE CATCHMENT AREA HAS BEEN LANDSCAPED AND/ORANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
- THE CONTRACTOR SHALL PROVIDE ACCEPTABLE RECEPTORS FOR CONCRETE & MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.
- EVERY WEEK, FOR THE DURATION OF WORKS THE CONTRACTOR SHALL INSPECT THE SITE FOR THE FOLLOWING ITEMS:
 - ENSURE DRAINS OPERATE EFFECTIVELY, AND INITIATE REPAIR OR MAINTENANCE AS REQUIRED
 - REMOVE SPILLED SAND (OR OTHER MATERIALS) FROM HAZARD AREAS, INCLUDING LANDS CLOSER THAN 2 METRES FROM AREAS OF CONCENTRATED OR HIGH-VELOCITY FLOWS SUCH AS WATERCOURSES, OVERLAND FLOW PATHS, GUTTERS, PAVED AREAS, DRIVEWAYS AND ROADS.
- CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT WORKS IS NECESSARY TO ENSURE THE DESIRED PROTECTION IS GIVEN TO DOWNSLOPE LANDS AND WATERWAYS, ie. MAKE ONGOING CHANGES TO THE PLAN.
- MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE REHABILITATED
- REMOVE TEMPORARY SOIL CONSERVATION STRUCTURES ASA LAST ACTIVITY IN THE REHABILITATION PROGRAMME
- THE CONTRACTOR SHALL KEEP A LOG BOOK, MAKING ENTRIES ATLEAST WEEKLY, AND AFTER RAINFALL AND/OR SITE CLOSURE. RECORD:
 - THE VOLUME OF ANY RAINFALL EVENTS (CHECK WEATHER BUREAU)
 - THE CONDITION OF ANY SOIL AND WATER MANAGEMENT WORKS
 - REMEDIAL WORKS



REFERENCE DRAWINGS			
STRUCT			
MECH			
ELEC			
RCP			
ARCH	1728 MACARTHUR HOUSE BASE PLAN	-	NOV. 2017
DISCIPLINE	DRAWING NUMBER	REV	DATE



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C	REVISED DA SUBMISSION	07.12.17		
B	FOR REVIEW	05.12.17		
A	DA SUBMISSION	13.10.17		
ISSUE	AMENDMENT	DATE		

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PROJECT

MACARTHUR REFURBISHMENT
THE KING'S SCHOOL
PARRAMATTA NSW 2151

DRAWING TITLE

STORMWATER SERVICES
SEDIMENT & EROSION
CONTROL PLAN

DATE	DRAWN	CHECKED	No IN SET	SCALE
DEC. 2017	DC/EK	DP	6 OF 6	NTS @ A1
PROJECT No.		DRAWING No.		REVISION
6186		SW-05		C