

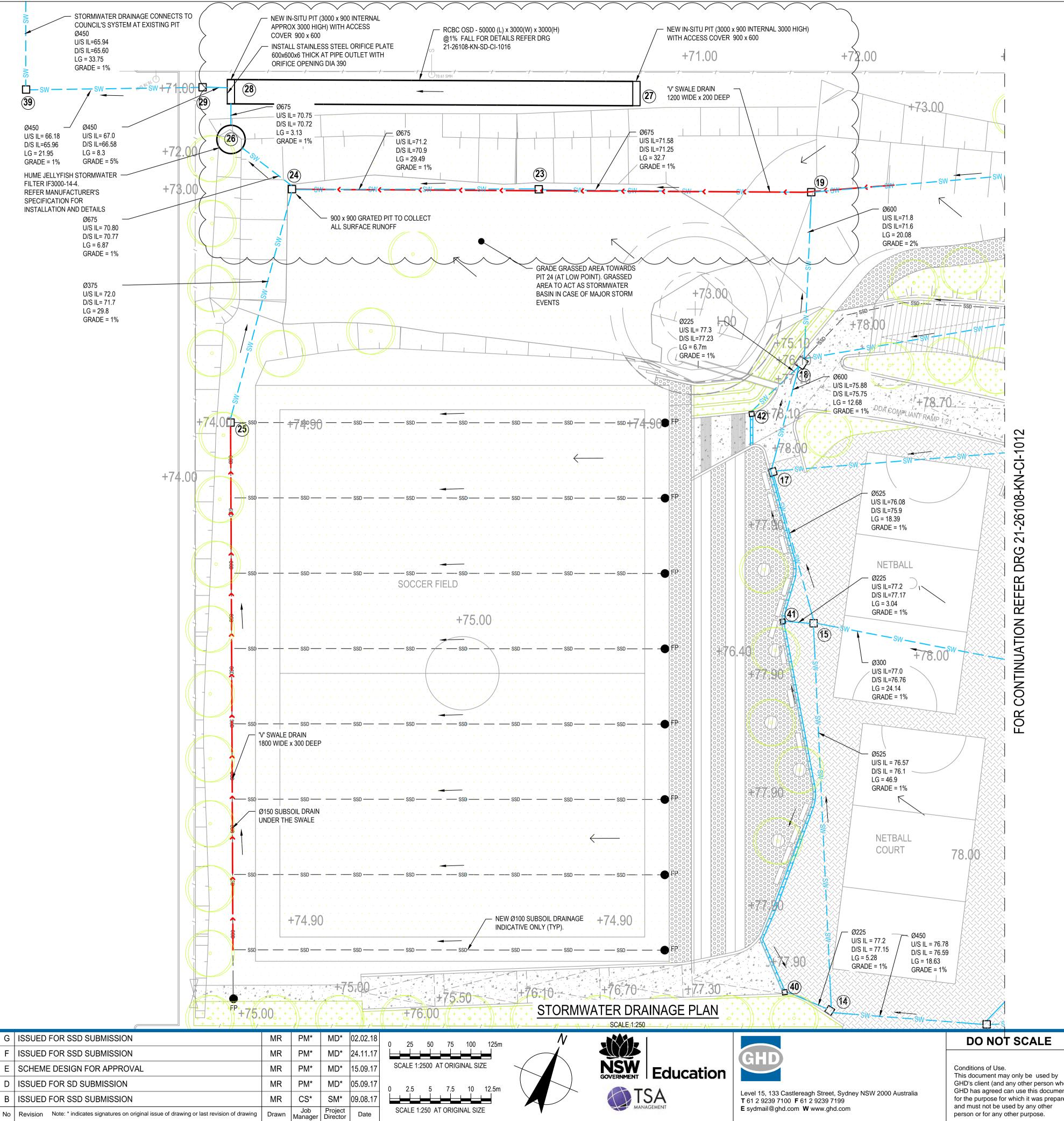
NOTES:

- 1. ALL STORMWATER PIPES TO HAVE A MINIMUM OF 1% SLOPE IN DIRECTION SHOWN. ALL PIPES TO BE MINIMUM 450mm COVER IN LANDSCAPED/FOOTPATH AREA AND
- 600mm COVER IN TRAFFICABLE AREA. 2. ALL STORMWATER PIPES TO BE REINFORCED CONCRETE (RCP) CLASS 2 WITH RUBBER RING JOINT UNO.
- STORMWATER PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING IS TO BE TYPE H2 UNLESS NOTED OTHERWISE.
- CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL. STORMWATER PITS/GRATED PITS AND COVERS/GRATES ARE TO BE CONSTRUCTED IN
- ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. GRATES AND COVERS SHALL CONFORM WITH AS 3996-1992.
- ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT STANDARDS AND CONSTRUCTION SPECIFICATIONS. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING SERVICES WITH ALL
- RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION. ALL STRUCTURES TO BE CONSTRUCTED TO NEW FINISHED SURFACE LEVELS. 9. 10. DATUM FOR LEVELS IS AHD.
- 11. THE POSITION, SIZE, SURFACE LEVELS AND INVERT LEVELS OF EXISTING STORMWATER PITS ARE TAKEN FROM SURVEY DRAWING. THESE ARE TO BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- 12. ALL STORMWATER PITS SHALL BE CONSTRUCTED USING CAST IN-SITU CONCRETE OR HEAVY DUTY PRECAST PITS.
- 13. CONNECTION TO EXISTING STORMWATER PITS TO BE CARRIED OUT BY THE CONTRACTOR IN ACCORDANCE WITH THE SPECIFICATION AND IN CONSULTATION WITH THE ASSET OWNER (i.e. COUNCIL). MAKE REQUIRED OPENING INSIDE THE EXISTING STORMWATER PIT WALL AT THE CONNECTION POINT OF NEW LINE. REPAIR AND MAKE GOOD THE PIT WALL INCLUDING NECESSARY ADJUSTMENT OF THE PIT BENCHING TO MATCH NEW PIPE CONNECTIONS.
- 14. GRATES, FRAMES AND COVERS IN ROADWAYS TO BE DURHAM OR RMS APPROVED HEAVY DUTY CLASS D. 15. GRATES AND FRAMES NOT IN ROADWAYS TO BE DURHAM OR EQUIVALENT MEDIUM
- DUTY CLASS B. 16. ALL GRATES TO BE HINGED AND LOCKABLE. PROVIDE HEEL SAFE GRATE AS PER AS
- 1428.1-7.5 IN ROADWAYS AND PARKING AREA (PEDESTRIAN TRAVERSING AREAS).

PRELIMINARY

	Title	CIVIL	
		OVERALL S	STORMWATER DRAINAGE PLAN
be hless	Original Size	Drawing No:	21-26108-KN-SD-CI-1010 Rev: H

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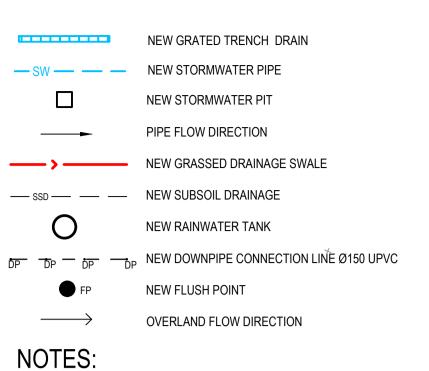
Plot Date: 2 February 2018 - 11:32 AM Plotted by: Guillaume de Swardt

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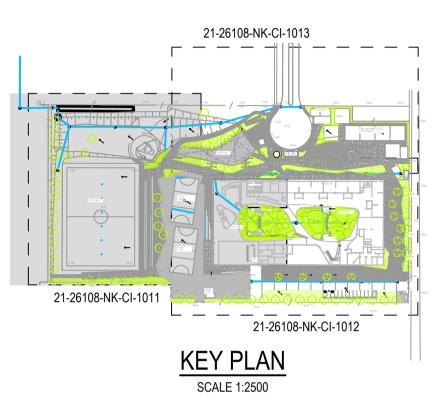
	PIT SCHEDULE
PIT NUMBER	PIT DETAILS
1	600 x 600 GRATED INLET PIT
2	900 x 900 GRATED INLET PIT
3	900 x 900 GRATED INLET PIT
4	900 x 900 GRATED INLET PIT
5	900 x 900 GRATED INLET PIT
6	1200 x 1200 DEEP DROP PIT
7	900 x 900 GRATED INLET PIT
8	900 x 900 GRATED INLET PIT
9	900 x 900 GRATED INLET PIT
10	900 x 900 GRATED INLET PIT
11	900 x 900 GRATED INLET PIT
12	900 x 900 GRATED INLET PIT
13	900 x 900 GRATED INLET PIT
14	900 x 900 GRATED INLET PIT
15	600 x 600 GRATED INLET PIT
16	900 x 900 GRATED INLET PIT
17	600 x 600 GRATED INLET PIT
18	1200 x 1200 DEEP DROP PIT
19	900 x 900 GRATED INLET PIT
20	900 x 900 GRATED INLET PIT
21	900 x 900 GRATED INLET DROP PIT
22	900 x 900 GRATED INLET PIT
23	900 x 900 GRATED INLET PIT
24	900 x 900 GRATED INLET PIT
24	900 x 900 GRATED INLET PIT
26	GPT-HUMEGARD
27	3000 x 900 IN-SITU ACCESS PIT
28	3000 x 900 IN-SITU ACCESS PIT
29	1200 x 1200 DEEP DROP PIT
30	900 x 900 GRATED INLET PIT
31	900 x 900 GRATED INLET PIT
32	900 x 900 GRATED INLET PIT
33	900 x 900 GRATED INLET PIT
34	900 x 900 GRATED INLET PIT
35	900 x 900 GRATED INLET PIT
36	900 x 900 GRATED INLET PIT
37	900 x 900 GRATED INLET PIT
38	900 x 900 GRATED INLET PIT
39	900 x 900 GRATED INLET PIT
40	600 x 600 GRATED INLET PIT
41	600 x 600 GRATED INLET PIT
42	600 x 600 GRATED INLET PIT

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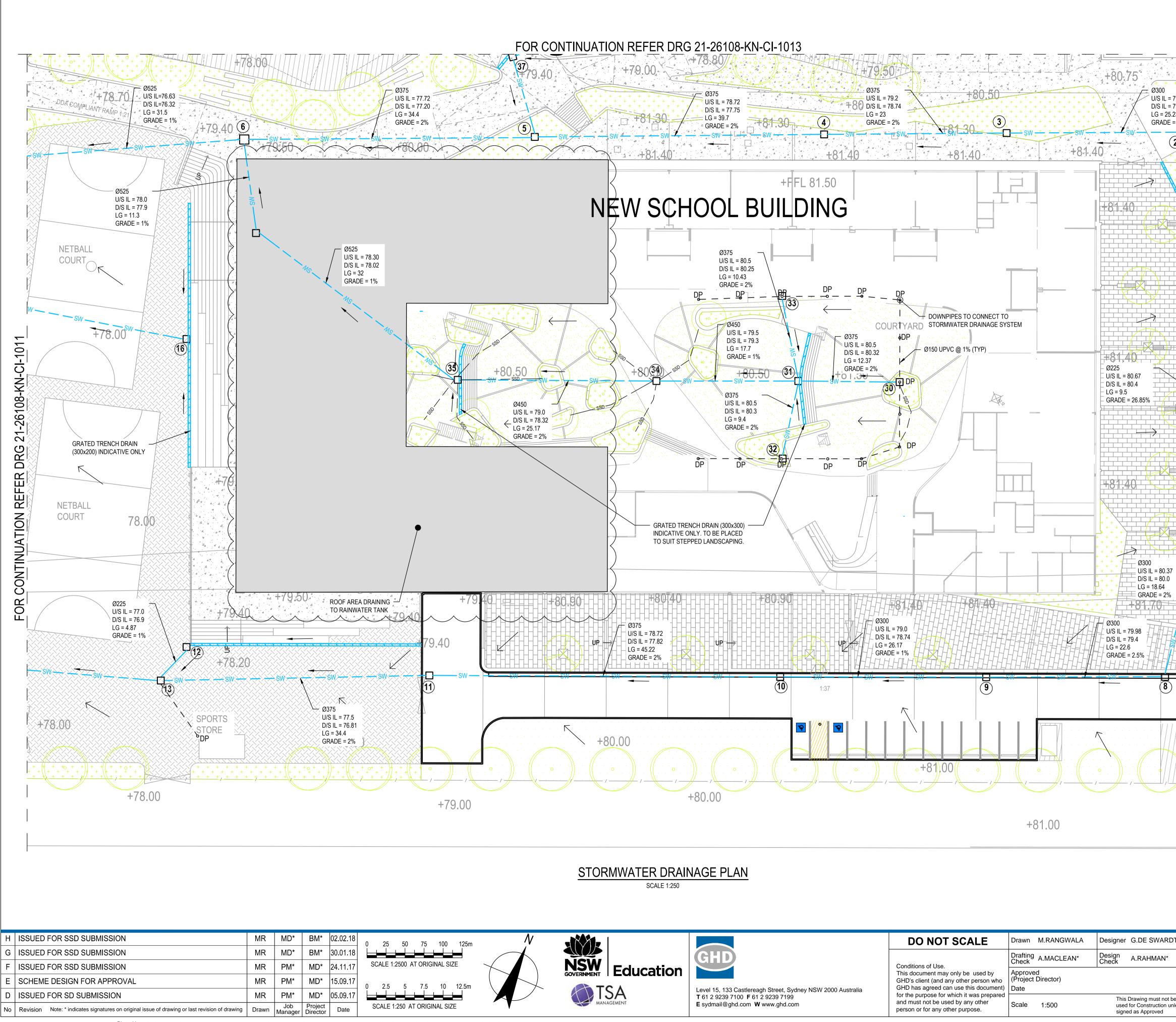
LEGEND:



1. REFER TO DRG 21-26108-KN-SD-CI-1010 FOR DRAINAGE NOTES.



PRELIMINARY **NSW DEPARTMENT OF EDUCATION** Client NORTH KELLYVILLE PUBLIC SCHOOL Project CIVIL Title **STORMWATER DRAINAGE PLAN-SHEET 1 OF 3** Original Size Drawing No: 21-26108-KN-SD-CI-1011 Rev: F **A1**



Plot Date: 2 February 2018 - 11:32 AM Plotted by: Guillaume de Swardt

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NOTES:

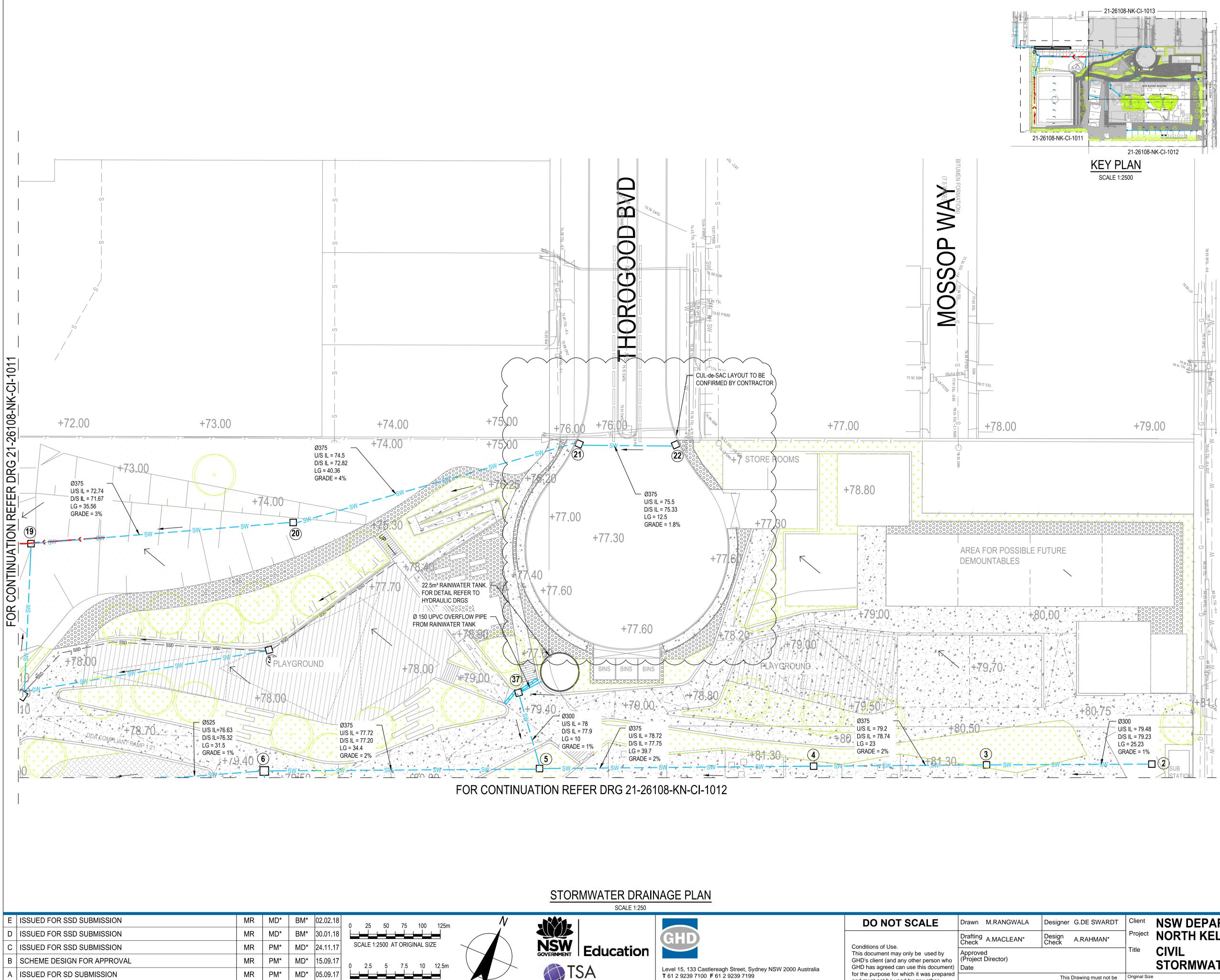
$ \begin{array}{c} & & & & & & & & & & & & & & & & & & &$		 NEW GRASSED DRAINAGE SWALE NEW SUBSOIL DRAINAGE NEW RAINWATER TANK NEW DOWNPIPE CONNECTION LIÑE Ø150 UPVC
23 * + + + + + G		
23 * + + + + + G	● FP	
23 * + + + + + G	● FP	
	● FP	
	_	NEW FLUSH POINT
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+ + + -0.2 -0.2 -0.2 + + + + -0.2 -0.2 -0.2		PIT SCHEDULE PIT DETAILS
+ + + + + + + + +	PIT NUMBER	PIT DETAILS 600 x 600 GRATED INLET PIT
	2	900 x 900 GRATED INLET PIT
	3	900 x 900 GRATED INLET PIT
	4	900 x 900 GRATED INLET PIT
++++81.90	5	900 x 900 GRATED INLET PIT
	6	1200 x 1200 DEEP DROP PIT 900 x 900 GRATED INLET PIT
	8	900 x 900 GRATED INLET PIT
	9	900 x 900 GRATED INLET PIT
	10	900 x 900 GRATED INLET PIT
	11	900 x 900 GRATED INLET PIT
	12	900 x 900 GRATED INLET PIT
	13 14	900 x 900 GRATED INLET PIT 900 x 900 GRATED INLET PIT
	15	600 x 600 GRATED INLET PIT
±1.30+ +82.00	16	900 x 900 GRATED INLET PIT
	17	600 x 600 GRATED INLET PIT
	18	1200 x 1200 DEEP DROP PIT
	19	900 x 900 GRATED INLET PIT
	20	900 x 900 GRATED INLET PIT 900 x 900 GRATED INLET DROP PIT
++++81.90 -	21	900 x 900 GRATED INLET DROP PIT 900 x 900 GRATED INLET PIT
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	26	GPT-HUMEGARD
	27 28	3000 x 900 IN-SITU ACCESS PIT 3000 x 900 IN-SITU ACCESS PIT
	29	1200 x 1200 DEEP DROP PIT
	30	900 x 900 GRATED INLET PIT
	31	900 x 900 GRATED INLET PIT
	32	900 x 900 GRATED INLET PIT
	33 34	900 x 900 GRATED INLET PIT 900 x 900 GRATED INLET PIT
	35	900 x 900 GRATED INLET PIT
	36	900 x 900 GRATED INLET PIT
	37	900 x 900 GRATED INLET PIT
	38	900 x 900 GRATED INLET PIT
+82,00 <	39 40	900 x 900 GRATED INLET PIT 600 x 600 GRATED INLET PIT
	40	600 x 600 GRATED INLET PIT
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		21-26108-NK-CI-1012
		KEY PLAN SCALE 1:2500
		PRELIMINARY
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	YVILLE F	PUBLIC SCHOOL
		AGE PLAN-SHEET 2 OF 3
Original Siza		
A1 Drawing No:	21-2010	08-KN-SD-CI-1012 Rev: G

LEGEND:

NEW GRATED TRENCH DRAIN (300W x 200D)

NEW STORMWATER PIPE

NEW STORMWATER PIT



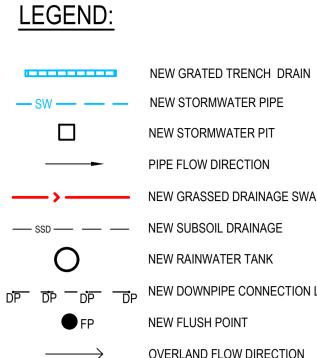
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Date

SCALE 1:250 AT ORIGINAL SIZE

STORIVIVATER DRAIN SCALE 1:250	NAGE PLAN					PRELIMINARY
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		This document may only be used by GHD's client (and any other person who	Approved (Project Director)		Title	CIVIL STORMWATER DRAINAGE DLAN SHEET 2 OF 2
	Level 15, 133 Castlereagh Street, Sydney NSW 2000 Australia	GHD has agreed can use this document)				STORMWATER DRAINAGE PLAN-SHEET 3 OF 3
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			•			

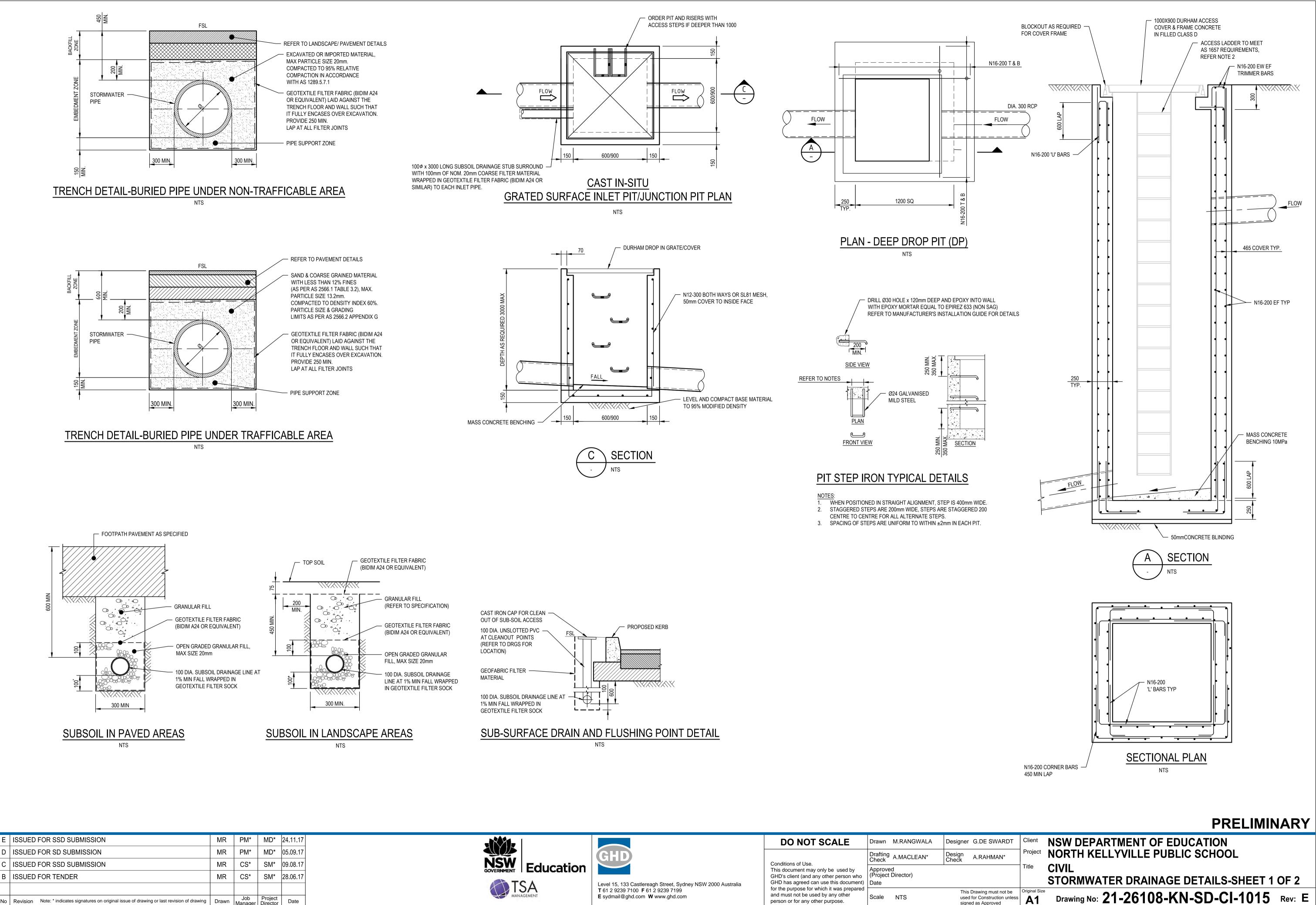


NEW STORMWATER PIPE NEW STORMWATER PIT PIPE FLOW DIRECTION NEW GRASSED DRAINAGE SWALE NEW RAINWATER TANK

OVERLAND FLOW DIRECTION

NOTES: 1. REFER TO DRG 21-26108-KN-SD-CI-1010 FOR DRAINAGE NOTES.

PIT SCHEDULE					
PIT NUMBER	PIT DETAILS				
1	600 x 600 GRATED INLET PIT				
2	900 x 900 GRATED INLET PIT				
3	900 x 900 GRATED INLET PIT				
4	900 x 900 GRATED INLET PIT				
5	900 x 900 GRATED INLET PIT				
6	1200 x 1200 DEEP DROP PIT				
7	900 x 900 GRATED INLET PIT				
8	900 x 900 GRATED INLET PIT				
9	900 x 900 GRATED INLET PIT				
10	900 x 900 GRATED INLET PIT				
11	900 x 900 GRATED INLET PIT				
12	900 x 900 GRATED INLET PIT				
13	900 x 900 GRATED INLET PIT				
14	900 x 900 GRATED INLET PIT				
15	600 x 600 GRATED INLET PIT				
16	900 x 900 GRATED INLET PIT				
17	600 x 600 GRATED INLET PIT				
18	1200 x 1200 DEEP DROP PIT				
19	900 x 900 GRATED INLET PIT				
20	900 x 900 GRATED INLET PIT				
21	900 x 900 GRATED INLET DROP PIT				
22	900 x 900 GRATED INLET PIT				
23	900 x 900 GRATED INLET PIT				
24	900 x 900 GRATED INLET PIT				
25	900 x 900 GRATED INLET PIT				
26	GPT-HUMEGARD				
27	3000 x 900 IN-SITU ACCESS PIT				
28	3000 x 900 IN-SITU ACCESS PIT				
29	1200 x 1200 DEEP DROP PIT				
30	900 x 900 GRATED INLET PIT				
31	900 x 900 GRATED INLET PIT				
32	900 x 900 GRATED INLET PIT				
33	900 x 900 GRATED INLET PIT				
34	900 x 900 GRATED INLET PIT				
35	900 x 900 GRATED INLET PIT				
36	900 x 900 GRATED INLET PIT				
37	900 x 900 GRATED INLET PIT				
38	900 x 900 GRATED INLET PIT				
39	900 x 900 GRATED INLET PIT				
40	600 x 600 GRATED INLET PIT				
41	600 x 600 GRATED INLET PIT				
42	600 x 600 GRATED INLET PIT				

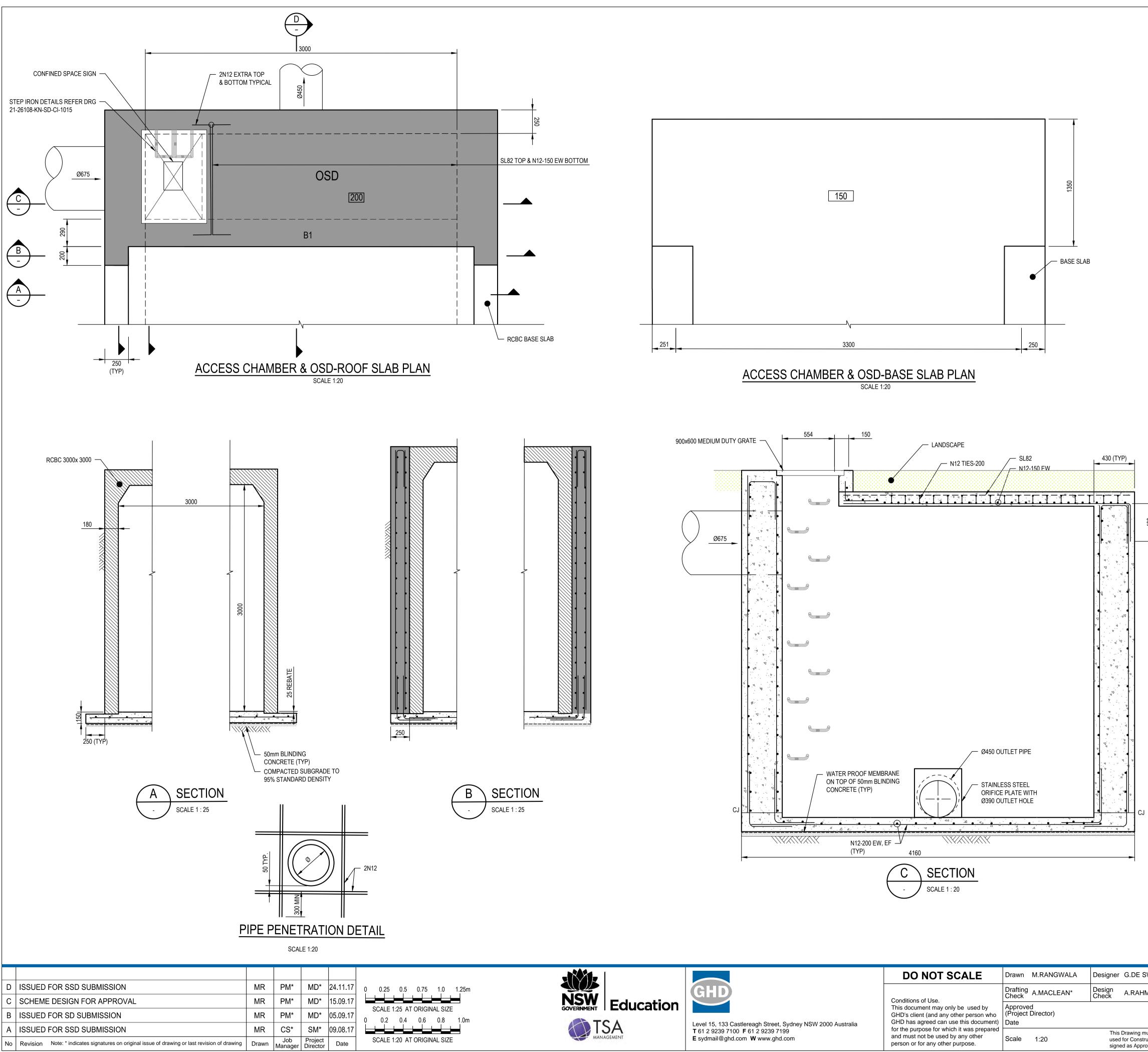


E	ISSUED FOR SSD SUBMISSION	MR	PM*	MD*	24.11.17
	ISSUED FOR SD SUBMISSION	MR	PM*	MD*	05.09.17
C	ISSUED FOR SSD SUBMISSION	MR	CS*	SM*	09.08.17
E	ISSUED FOR TENDER	MR	CS*	SM*	28.06.17
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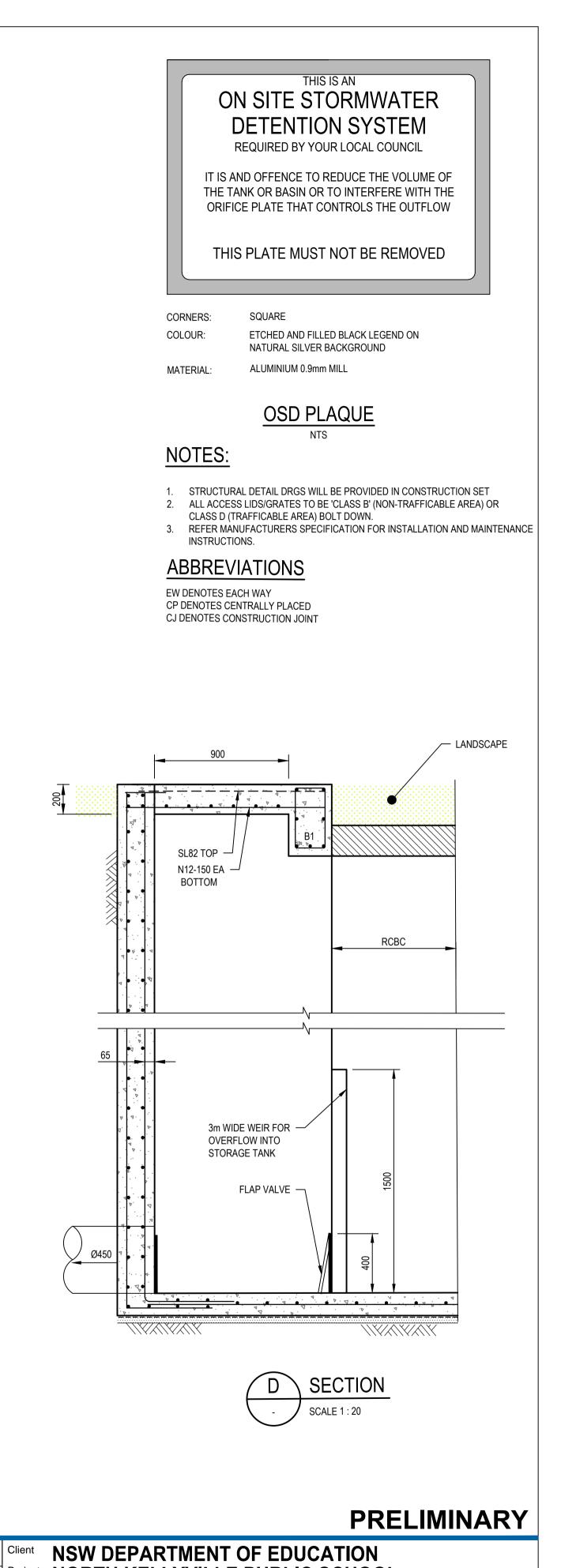
signed as Approved



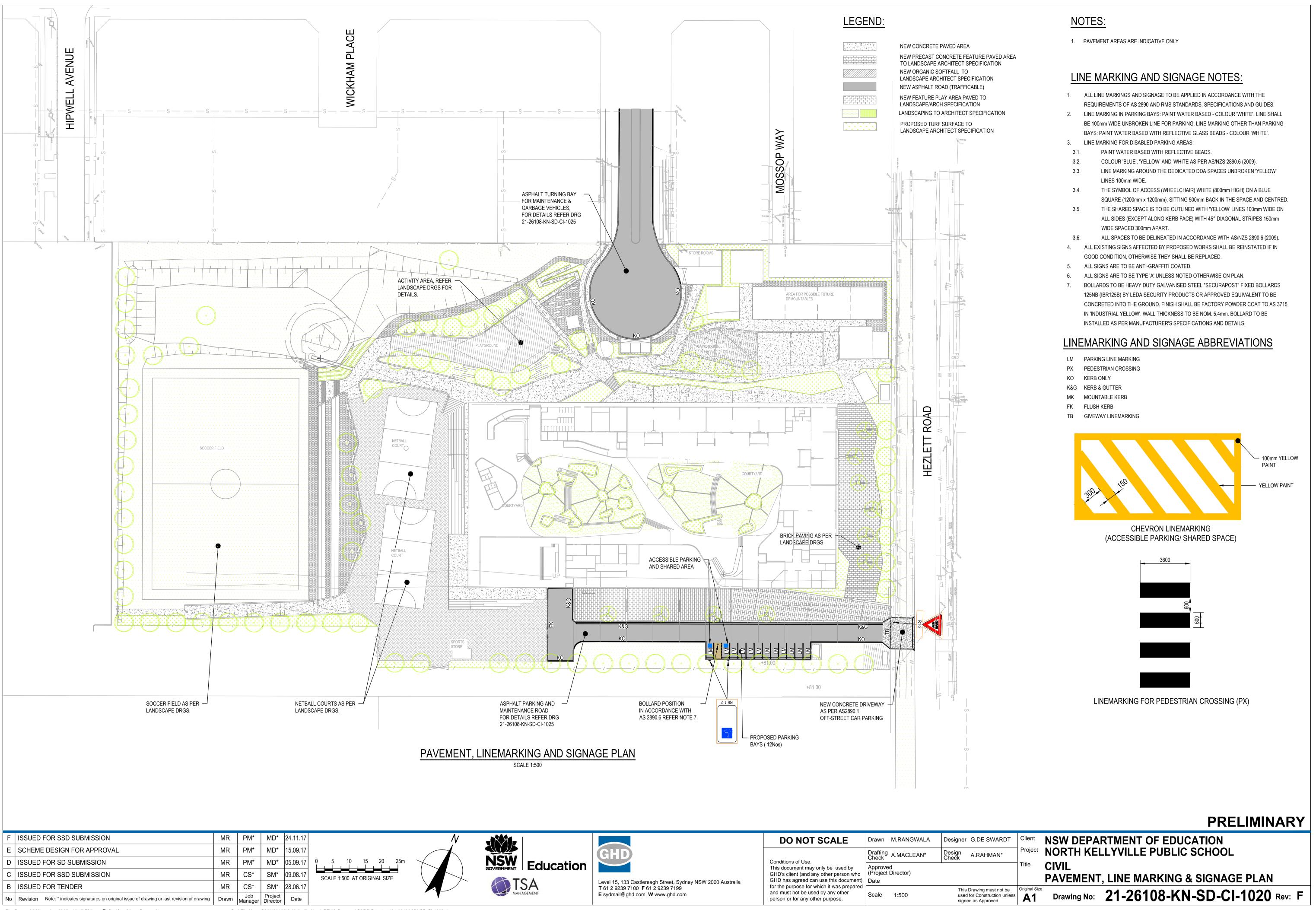
Plot Date: 28 November 2017 - 12:17 PM Plotted by: Mona Rangwala

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Project NORTH KELLYVILLE PUBLIC SCHOOL CIVIL Title **STORMWATER DRAINAGE DETAILS-SHEET 2 OF 2** A1 Drawing No: 21-26108-KN-SD-CI-1016 Rev: D

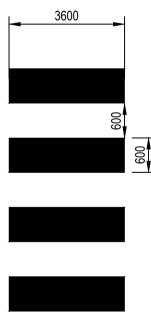


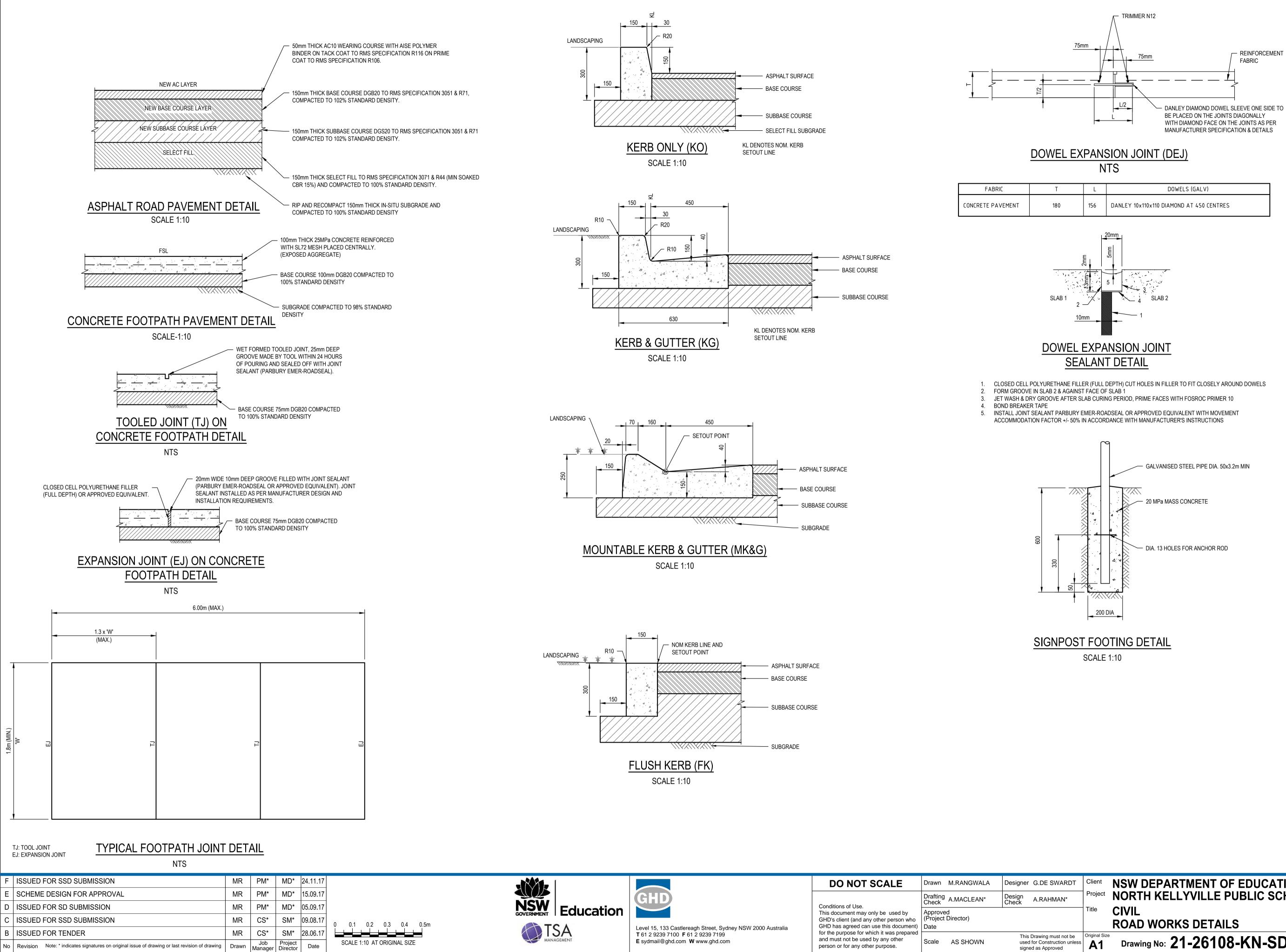
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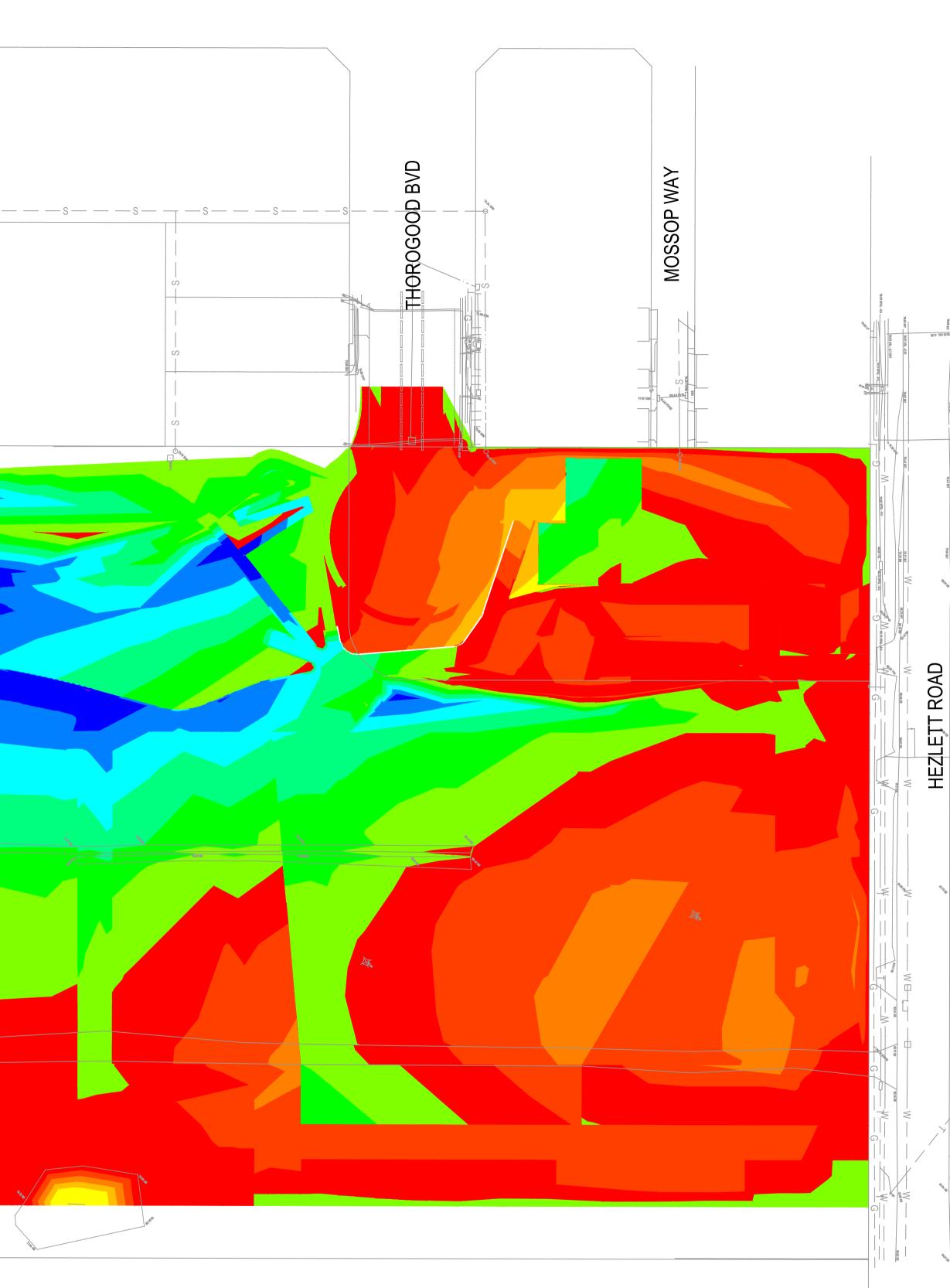
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stralia	GHD's client (and any other person who GHD has agreed can use this document)	Approved (Project Director) Date		Title CIVIL ROAD WORKS DETAILS	
	for the purpose for which it was prepared and must not be used by any other person or for any other purpose.	Scale AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	^{Criginal Size} A1 Drawing No: 21-26108-KN-SD-CI-1025 Rev:	/: F

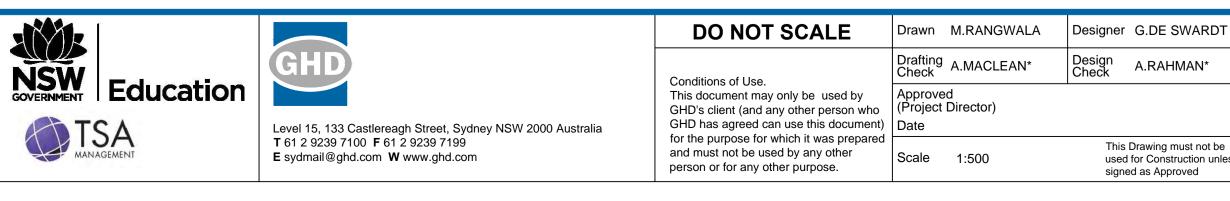
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			MCKHAM PLACE
F ISSUED FOR SSD SUBMISSION E SCHEME DESIGN FOR APPROVAL D ISSUED FOR SD SUBMISSION C ISSUED FOR SSD SUBMISSION C ISSUED FOR SSD SUBMISSION B ISSUED FOR TENDER No Revision	Image: MR PM* MR PM* MR PM* MR PM* MR PM* MR CS* Image: Trevision of drawing Drawn Manager	MD* 24.11.17 MD* 15.09.17 MD* 05.09.17 SM* 09.08.17 SM* 28.06.17 r Project Director Date	



EARTHWORKS PLAN

SCALE 1:500



Surface Analysis: Elevation Ranges							
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)				
1		-3.000	-2.500				
2		-2.500	-2.000				
3		-2.000	-1.500				
4		-1.500	-1.000				
5		-1.000	-0.500				
6		-0.500	0.000				
7		0.000	0.500				
8		0.500	1.000				
9		1.000	1.500				
10		1.500	2.000				
11		2.000	2.500				
12		2.500	3.000				
13		3.000	3.500				
14		3.500	4.000				
15		4.000	4.500				
16		4.500	5.000				

APPROX .EARTHWORKS VOLUMES

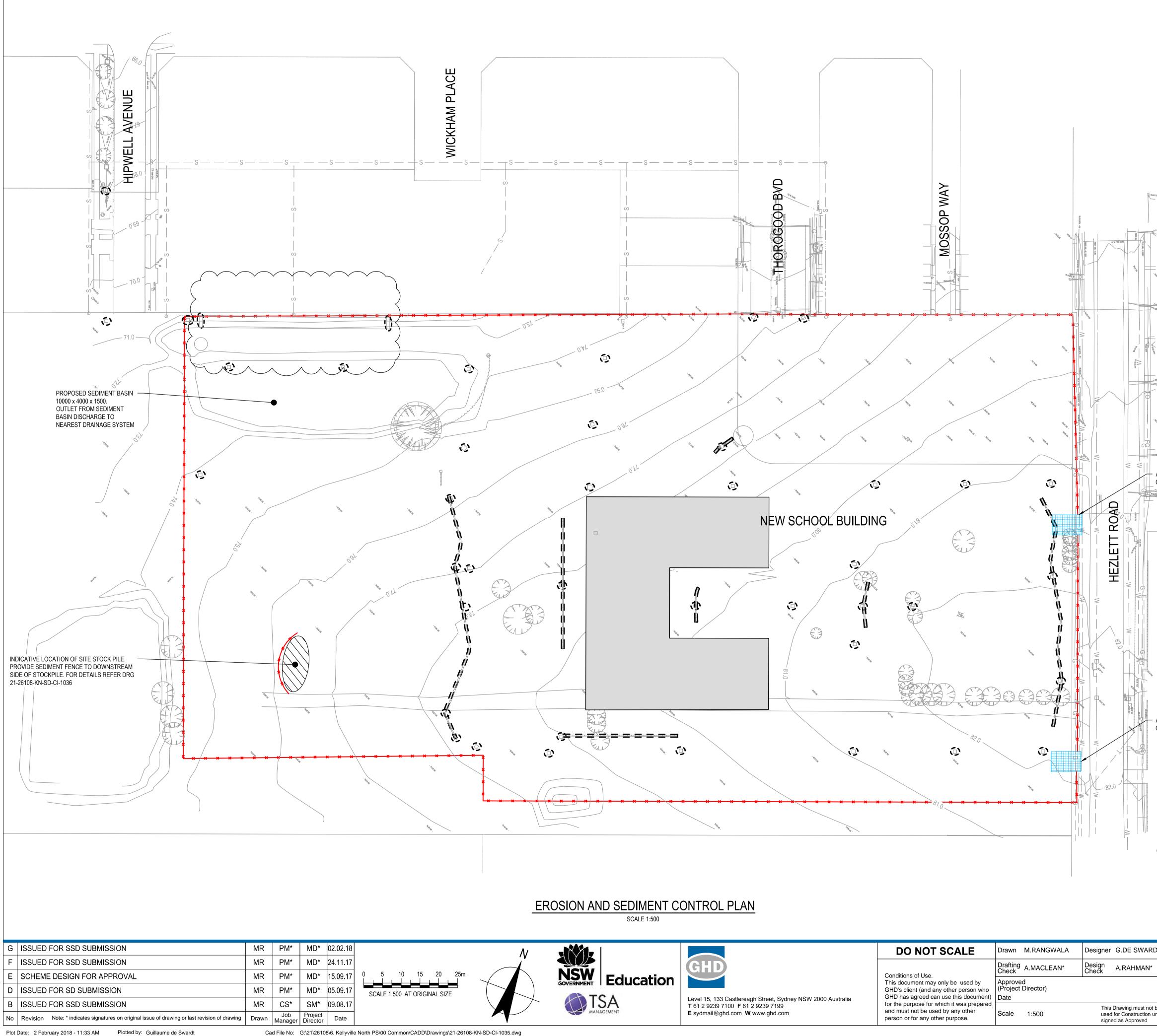
CUT 11362m³ (Includes 2929m³ of 100mm Stripping Layer) FILL 18836m³ (Includes 4590m³ to Fill South-western dam) NET 7474m³ Fill required

NOTES:

- 1. CUT AND FILL VOLUMES ARE INDICATIVE ONLY WITH FINAL DESIGN LEVELS YET TO BE CONFIRMED.
- 2. CUT AND FILL VOLUMES DOES NOT ACCOUNT FOR CLEARING AND GRUBBING VOLUMES.
- 3. CUT AND FILL VOLUMES ARE BASED ON AN AERIAL SURVEY. 4. CUT AND FILL VOLUMES DOES NOT CONSIDER ANY
- GEOTECHNICAL REQUIREMENTS OF SOIL AT THIS STAGE. 5. EARTHWORK LEVELS ARE GENERALLY LOWER THAN FINISHED LEVELS TO ALLOW FOR FINISHED SURFACE TREATMENTS. THE DIFFERENCE BETWEEN FINISHED SURFACE LEVELS AND EARTHWORKS LEVELS ARE APPROXIMATELY: BUILDING SLAB = 350mm

CONCRETE FOOTPATH = 175mm PAVER TYPE 1 (NON-TRAFFICABLE) = 190mm PAVER TYPE 2 (TRAFFICABLE) = 350mm COMPACTED TOPPING = 150mm ROAD PAVEMENT = 340mm SPORTSFIELD TURF = 200mm

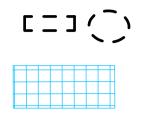
			PRELIMINARY				
DT	Client	NSW DEPA	RTMENT OF EDUCATION				
	Project	NORTH KELLYVILLE PUBLIC SCHOOL					
	Title	CIVIL					
		EARTHWORKS PLAN					
: be unless	Original Size	Drawing No:	21-26108-KN-SD-CI-1030 Rev: F				



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LEGEND:





PROPOSED SEDIMENT FENCE

PROPOSED GEOTEXTILE FILTER

STABILIZED SITE ACCESS (TEMP ACCESS)

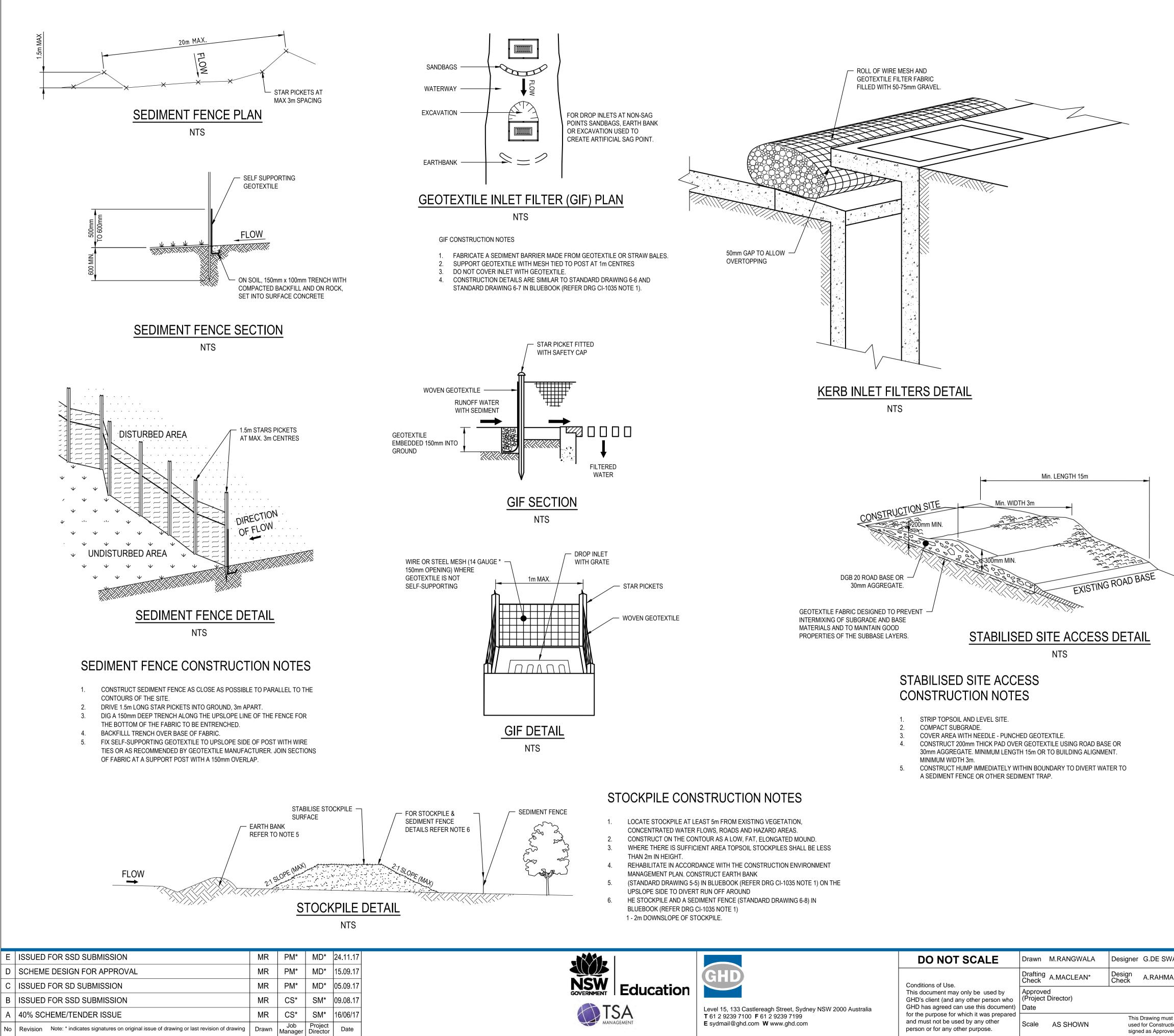
NOTES:

- 1. ALL WORKS SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH: (A) EPA - POLLUTION CONTROL MANUAL FOR URBAN STORMWATER. (B) DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT MANUAL -"URBAN EROSION & SEDIMENT CONTROL". (C) SOIL AND CONSTRUCTION VOLUME 1, 4TH EDITION, MARCH 2004 - LANDCOM
- "BLUEBOOK" (D) COUNCIL POLICIES 2. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE
- SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME. 3. 4. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT
- STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
- 5. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.
- 6. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
- 8. ALL CONSTRUCTION VEHICLES SHALL ENTER & EXIT THE SITE VIA THE APPROVED CONSTRUCTION ENTRY/EXIT ROUTE.
- 9. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED & INSPECTED BEFORE LEAVING.
- 10. MAINTAIN ALL STORMWATER PIPES CLEAR OF DEBRIS & SEDIMENT. INSPECT STORMWATER SYSTEM & CLEAN OUT AFTER EACH STORM EVENT. 11. CLEAN OUT ALL EROSION & SEDIMENT CONTROL DEVICES AFTER EACH STORM
- EVENT. 12. SEDIMENT AND EROSION CONTROL PLAN IS INDICATIVE ONLY. 13. ALL NEW STORMWATER PITS TO BE SURROUNDED BY GEOTEXTILE INLET FABRIC DURING CONSTRUCTION.
- APPROXIMATE LOCATION OF STABILIZED SITE ACCESS

APPROXIMATE LOCATION OF STABILIZED SITE ACCESS

PRELIMINARY

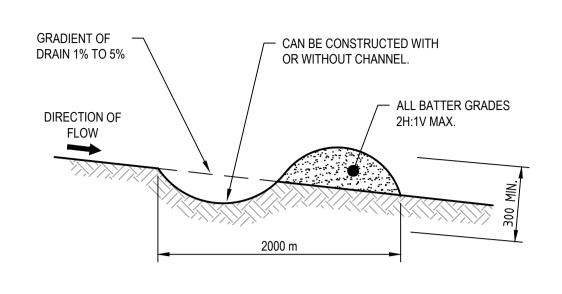
RDT	Client		RTMENT OF EDUCATION				
r	Project	NORTH KELLYVILLE PUBLIC SCHOOL					
	Title	CIVIL					
		EROSION A	ND SEDIMENT CONTROL PLAN				
t be unless	Original Size	Drawing No:	21-26108-KN-SD-CI-1035 Rev: F				
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Plot Date: 28 November 2017 - 11:44 AM Plotted by: Mona Rangwala

Cad File No: G:\21\26108\6. Kellyville North PS\00 Common\CADD\Drawings\21-26108-KN-SD-CI-1036.dwg

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alia		Approve (Project Date	d Director)		
		Scale	AS SHOWN	used	Drawing must not be for Construction unle d as Approved



NOTE ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

EARTH BANK (LOW FLOW) DETAIL

NTS EARTH BANK (LOW FLOW) CONSTRUCTION SEQUENCE

- CONSTRUCT WITH GRADIENT OF 1% TO 5%. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE.
- DRAINS TO BE OF CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED.
- EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT 4. FAILURE.
- PERMANENT OR TEMPORARY STABILISATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION. ALL OUTLETS FROM DISTURBED LANDS ARE TO BE FEED INTO A SEDIMENT
- BASIN OR SIMILAR. DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A 7
- STABILISED OR AN UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED. COMPACTED BANK WITH A SUITABLE IMPLEMENT IN SITUATIONS WHERE THEY 8
- ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT
- WILL IMPEDE NORMAL FLOW.

PRELIMINARY

т	Client	THE DEPARTMENT OF EDUCATION	
	Project	NORTH KELLYVILLE PUBLIC SCHOOL	
	Title	CIVIL	
		SEDIMENT CONTROL DEVICES	
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