EDGEWORTH DAVID AVENUE

MYRA STREET

Ø375
U/S IL= 183.09
D/S IL = 182.75
LG = 29.1
GRADE = 1.2%

Ø375
U/S IL= 183.34
D/S IL = 183.09
LG = 25.1
GRADE = 1%

CONSTRUCT NEW STORMWATER PIT TO CONNECT EXISTING STORMWATER LINE TO NEW STORMWATER LINE

Ø375
U/S IL= 184.93
D/S IL = 184.7
LG = 23.1
GRADE = 1.%

EXISTING STORMWATER LINE AND PIT TO BE REMOVED

Ø450
U/S IL= 182.5
D/S IL = 182.32
LG = 36.7
GRADE = 0.5%

Ø375
U/S IL= 182.88
D/S IL = 182.57
LG = 30.9
GRADE = 1%

300mm W x 200mm D GRATED TRENCH DRAIN (TYP)

Ø375
U/S IL= 184.5
D/S IL = 182.88
LG = 22.3
GRADE = 7.25%

Ø375
U/S IL= 184.65
D/S IL = 184.5
LG = 15
GRADE = 1.%

Ø375
U/S IL= 184.7
D/S IL = 184.65
LG = 9.15
GRADE = 0.5.%

Ø375
U/S IL= 184.55
D/S IL = 184.50
LG = 8.1
GRADE = 0.6.%

Ø375
U/S IL= 184.65
D/S IL = 184.59
LG = 12.9
GRADE = 0.5.%

Ø525
U/S IL= 182.32
D/S IL = 182.25
LG = 12.8
GRADE = 0.5%

300mm W x 200mm D GRATED TRENCH DRAIN (TYP)

Ø525
U/S IL= 182.25
D/S IL = 182.14
LG = 22.1
GRADE = 0.5%

Ø525
U/S IL= 182.14
D/S IL = 182.07
LG = 15.1
GRADE = 0.5%

300mm W x 200mm D GRATED TRENCH DRAIN (TYP)

STORMWATER360 PRODUCT STORMFILTER (3.2m DIAMETER CHAMBER WITH 22 STORMFILTER CARTRIDGES)

Ø525
U/S IL= 181.92
D/S IL= 181.91
LG = 1.5
GRADE = 0.5%

Ø375
U/S IL= 180.9
D/S IL = 180.87
LG = 6.5
GRADE = 0.5%

Ø375
U/S IL= 182.57
D/S IL = 182.56
LG = 14.85
GRADE = 0.5%

PROPOSED OSD RCBC (90m³)
10m L x 9m W WITH DISCHARGE CONTROL PIT

NEW STORMWATER LINE TO CONNECT TO EXISTING COUNCIL PIT

NEW STORMWATER KERB INLET PIT IN THE EXISTING GUTTER

EXISTING ASPHALT

FFL 183.920
FFL 186.520
FFL 186.500
FFL 186.450
FFL 186.450
FFL 186.380
FFL 184.222
FFL 184.538
FFL 184.064
FFL 184.222
FFL 184.389
FFL 184.854
FFL 184.854
FFL 183.900
FFL 184.488
FFL 184.526
FFL 185.644
FFL 185.328
FFL 185.960

STORMWATER DRAINAGE PLAN

SCALE 1:250

NOTES:

1. ALL STORMWATER PIPES TO HAVE A MINIMUM OF 1% SLOPE IN DIRECTION SHOWN.
2. ALL IN-GROUND STORMWATER PIPES TO BE Ø300 RCP CLASS 2 PIPES UNO.
3. ALL IN-GROUND STORMWATER PIPES TO BE MINIMUM 450 BELOW LANDSCAPED SURFACES AND 600 BELOW SURFACES IN TRAFFICABLE AREA. .
4. STORMWATER PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING IS TO BE TYPE H2 UNLESS NOTED OTHERWISE.
5. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES. GRADE SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
6. STORMWATER PITS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.
7. GRATES AND COVERS SHALL CONFORM WITH AS 3996-1992.
8. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH CURRENT STANDARDS AND CONSTRUCTION SPECIFICATIONS.
9. THE CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING SERVICES WITH ALL RELEVANT AUTHORITIES BEFORE COMMENCING CONSTRUCTION.
10. ALL STRUCTURES TO BE CONSTRUCTED TO NEW FINISHED SURFACE LEVELS.
11. DATUM FOR LEVELS IS AHD, THE POSITION, SIZE, SURFACE LEVELS AND INVERT LEVELS OF EXISTING STORMWATER PITS ARE TAKEN FROM SURVEY DRAWING. THESE NEED 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 COUNCIL/RELEVANT AUTHORITIES. MAKE REQUIRED OPENING IN 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 CLASS D.
15. GRATES AND FRAMES NOT IN ROADWAYS TO BE 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).
17. CONTRACTER TO LOCATE AND EXPOSE ALL EXISTING SURFACES BEFORE CONSTRUCTION STARTS, EXISTING SERVICES TO BE RELOCATED WHERE NEEDED TO AVOID CLASHING.
18. ALL DOWNPIPES DRAIN LINE TO BE Ø150 UPVC. REFER TO HYDRAULIC DRGS FOR LOCATIONS AND DETAILS.

LEGEND:

- NEW GRATED TRENCH DRAIN 300mm WIDE x 200mm DEEP
- NEW STORMWATER PIPE
- NEW STORMWATER GRATED INLET PIT
- PIPE FLOW DIRECTION
- NEW DOWNPIPE DRAIN
- NEW DOWNPIPE CONNECTED TO RAINWATER TANK
- NEW SUBSOIL DRAIN
- NEW FLUSHING POINT
- OVERLAND FLOW DIRECTION

DEVELOPMENT APPLICATION

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	ISSUED FOR DEVELOPMENT APPLICATION		MR	PM*	MD*	19.09.17
B	ISSUED FOR REVIEW		MR	PM*	MD*	12.09.17
A	ISSUED FOR DEVELOPMENT APPLICATION		MR	MD*	MW*	24.08.17

0 2.5 5 7.5 10 12.5m
SCALE 1:250 AT ORIGINAL SIZE

N

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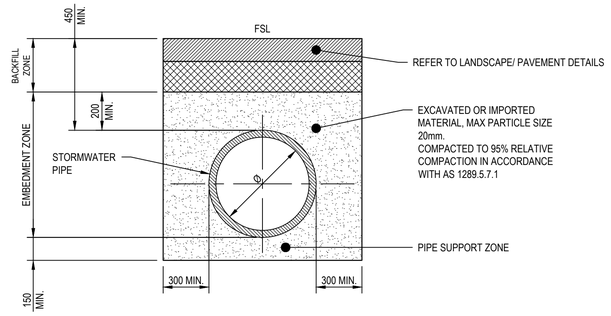
Drawn	M.RANGWALA	Designer	G.DE SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1.250	This Drawing must not be used for Construction unless signed as Approved	

Client THE DEPARTMENT OF EDUCATION
Project WAITARA PUBLIC SCHOOL
Title CIVIL
STORMWATER DRAINAGE PLAN

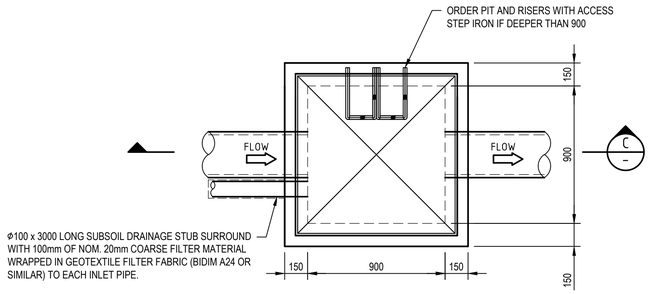
Original Size A1
Drawing No: 21-26108-WA-DA-CI-1010 Rev: C

Plot Date: 19 September 2017 - 5:00 PM Plotted by: Mona Rangwala
Cad File No: G:\21\26108\7. Waitara PS\00 Common\CADD\Drawings\01 Drawings Waitara\21-26108-WA-DA-CI-1010.dwg



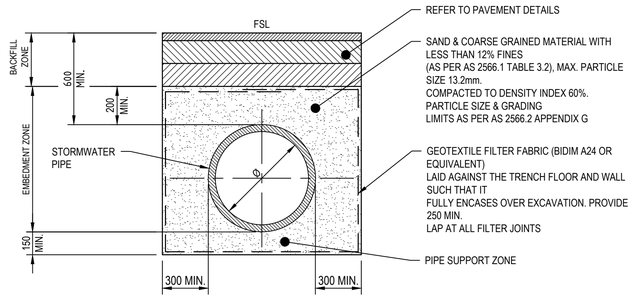
TRENCH DETAIL-BURIED PIPE UNDER NON-TRAFFICABLE AREA

NTS



CAST IN-SITU GRATED SURFACE INLET PIT/JUNCTION PIT PLAN

NTS



TRENCH DETAIL-BURIED PIPE UNDER TRAFFICABLE AREA

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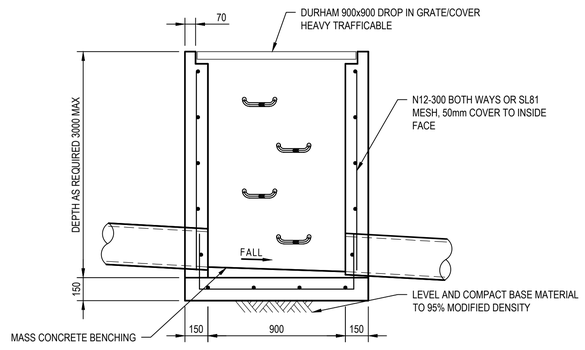
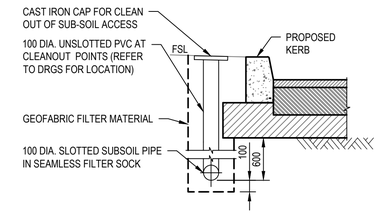


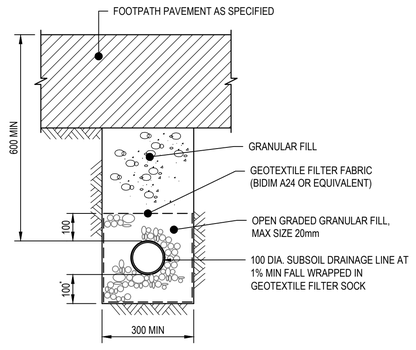
C / - SECTION

NTS



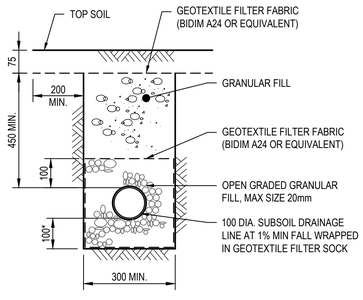
SUB-SURFACE DRAIN AND FLUSHING POINT DETAIL

NTS



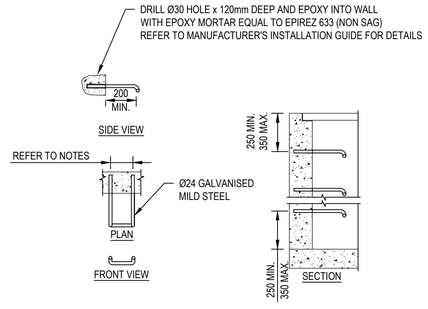
SUBSOIL DRAINAGE LINE IN PAVED AREAS

NTS



SUBSOIL DRAINAGE LINE IN LANDSCAPE AREAS

NTS



PIT STEP IRON TYPICAL DETAILS

NOTES :
1. WHEN POSITIONED IN STRAIGHT ALIGNMENT, STEP IS 400mm WIDE.
2. STAGGERED STEPS ARE 200mm WIDE, STEPS ARE STAGGERED 200 CENTRE TO CENTRE FOR ALL ALTERNATIVE STEPS.
3. SPACING OF STEPS ARE UNIFORM TO WITHIN ±2mm IN EACH PIT.

DEVELOPMENT APPLICATION

No	Revision	Drawn	Job Manager	Project Director	Date
C	ISSUED FOR DEVELOPMENT APPLICATION	MR	PM*	MD*	19.09.17
B	ISSUED FOR REVIEW	MR	PM*	MD*	12.09.17
A	ISSUED FOR DEVELOPMENT APPLICATION	MR	MD*	MW*	24.08.17

Note: * indicates signatures on original issue of drawing or last revision of drawing

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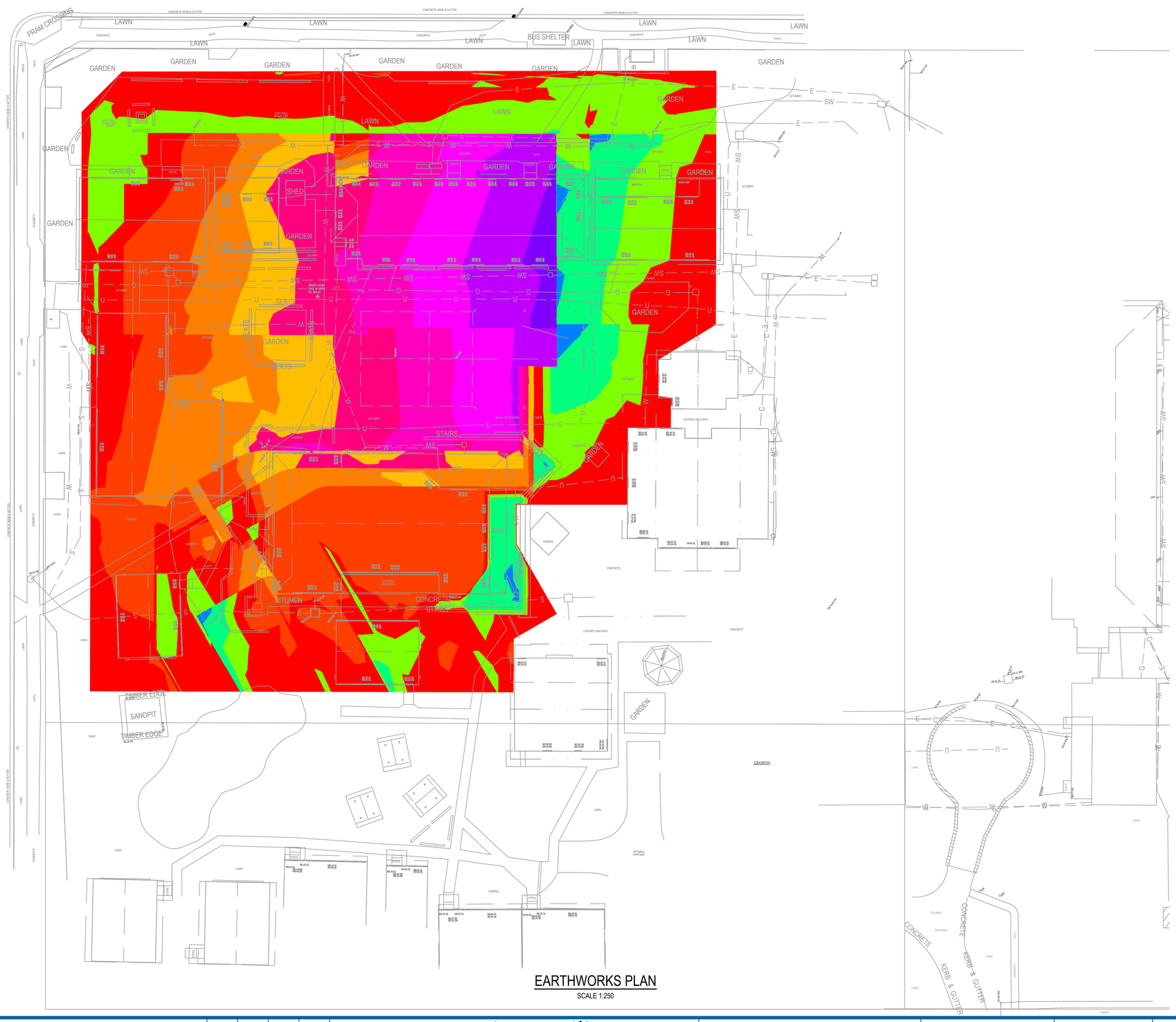
Drawn M.RANGWALA		Designer G.DE SWARDT	
Drafting Check A.MACLEAN*		Design Check A.RAHMAN*	
Approved (Project Director)			
Date			
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		

Client THE DEPARTMENT OF EDUCATION
Project WAITARA PUBLIC SCHOOL
Title CIVIL
STORMWATER DRAINAGE DETAILS

Original Size A1
Drawing No: 21-26108-WA-DA-CI-1015 Rev: C

Plot Date: 19 September 2017 - 4:39 PM Plotted by: Mona Rangwala
Cad File No: G:\21\26108\7. Waitara PS\00 Common\CADD\Drawings\01 Drawings Waitara\21-26108-WA-DA-CI-1015.dwg



EARTHWORKS PLAN

SCALE 1:250

Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1		-2.250	-2.000
2		-2.000	-1.750
3		-1.750	-1.500
4		-1.500	-1.250
5		-1.250	-1.000
6		-1.000	-0.750
7		-0.750	-0.500
8		-0.500	-0.250
9		-0.250	0.000
10		0.000	0.250
11		0.250	0.500
12		0.500	0.750

APPROXIMATE EARTHWORK VOLUME
TOTAL CUT = 2579m³
TOTAL FILL = 179m³
NET VOLUME = 2399m³
100mm STRIPPING LAYER = 478m³
190mm FEATURE PAVING = 119m³

NOTES:

1. CUT AND FILL VOLUMES ARE INDICATIVE ONLY WITH FINAL DESIGN LEVELS YET TO BE CONFIRMED.
2. CUT AND FILL VOLUMES ARE BASED ON DETAIL AND AERIAL SURVEY.
3. CUT AND FILL VOLUMES DOES NOT CONSIDER ANY GEOTECHNICAL REQUIREMENTS OF SOIL AT THIS STAGE.
4. 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/AREAS = 175mm
   PLANT MIX AREAS = 150mm

DEVELOPMENT APPLICATION

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	ISSUED FOR DEVELOPMENT APPLICATION		MR	PM*	MD*	19.09.17
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A	ISSUED FOR DEVELOPMENT APPLICATION		MR	MD*	MW*	24.08.17

0 2.5 5 7.5 10 12.5m
SCALE 1:250 AT ORIGINAL SIZE

N

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Drawn	M.RANGWALA	Designer	G.DE.SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:250	This Drawing must not be used for Construction unless signed as Approved	

Client THE DEPARTMENT OF EDUCATION
Project WAITARA PUBLIC SCHOOL
Title CIVIL
EARTHWORKS PLAN

Original Size A1
Drawing No: 21-26108-WA-DA-CI-1030 Rev: C

Plot Date: 19 September 2017 - 4:40 PM Plotted by: Mona Rangwala
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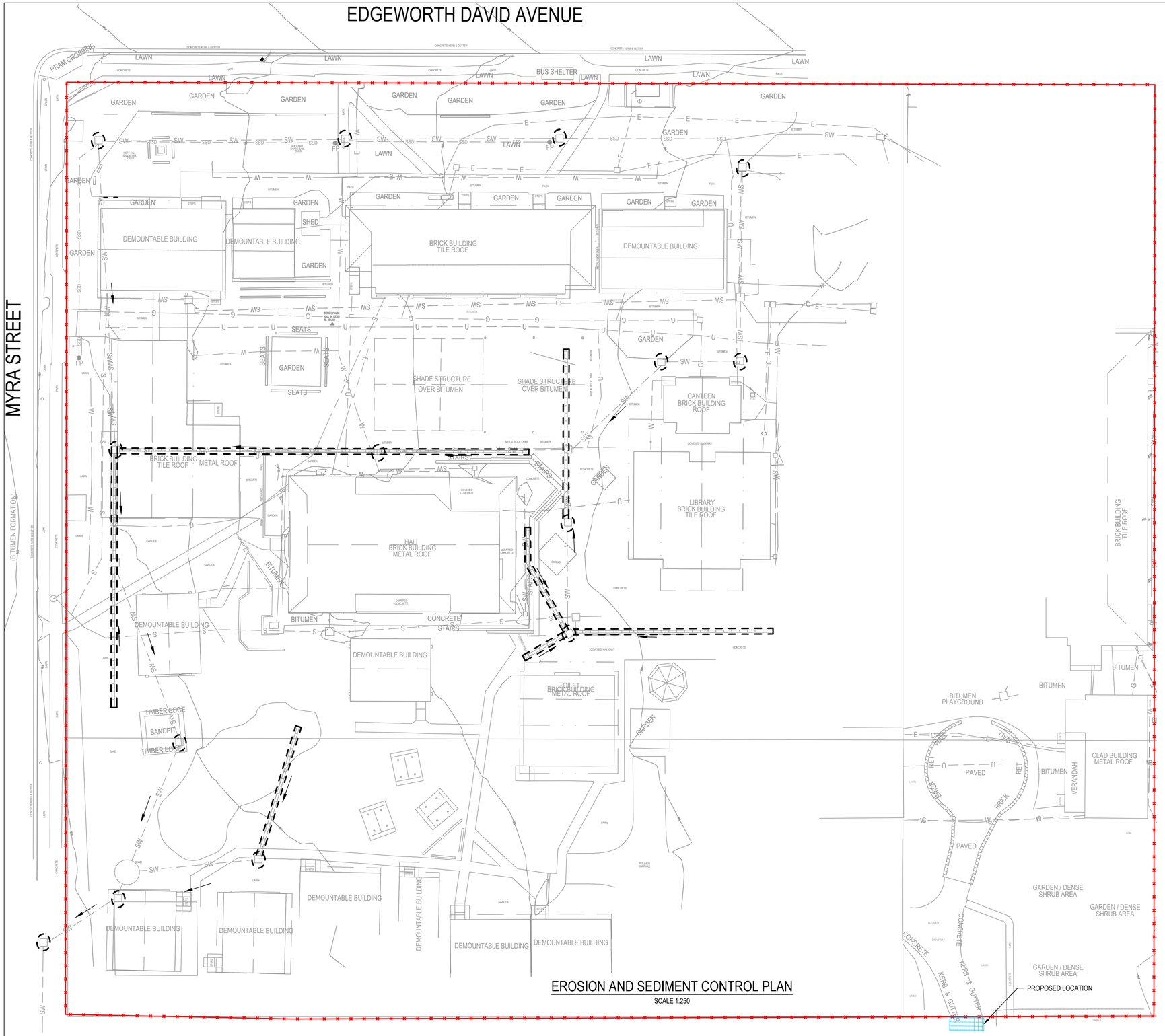

EROSION AND SEDIMENT CONTROL PLAN

SCALE 1:250

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
2. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE.
3. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
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.

LEGEND:

PROPOSED SEDIMENT FENCE

PROPOSED GEOTEXTILE FILTER AROUND NEW STORMWATER PITS

STABILIZED SITE ACCESS (TEMP ACCESS)

DEVELOPMENT APPLICATION

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
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A	ISSUED FOR DEVELOPMENT APPLICATION		MR	MD*	MW*	24.08.17

0 2.5 5 7.5 10 12.5m
SCALE 1:250 AT ORIGINAL SIZE

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DO NOT SCALE

Drawn	M.RANGWALA	Designer	G.DE.SWARDT
Drafting Check	A.MACLEAN*	Design Check	A.RAHMAN*
Approved (Project Director)			
Date			
Scale	1:250	This Drawing must not be used for Construction unless signed as Approved	

Client THE DEPARTMENT OF EDUCATION
Project WAITARA PUBLIC SCHOOL
Title CIVIL
EROSION AND SEDIMENT CONTROL PLAN

Original Size A1
Drawing No: 21-26108-WA-DA-CI-1035 Rev: C

Plot Date: 19 September 2017 - 4:40 PM Plotted by: Mona Rangwala
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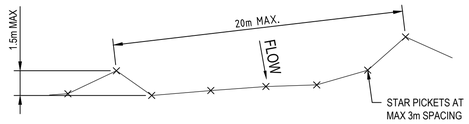
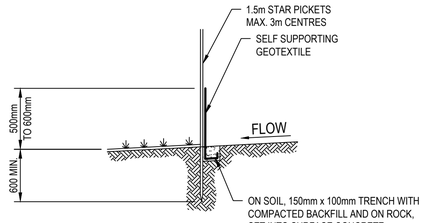
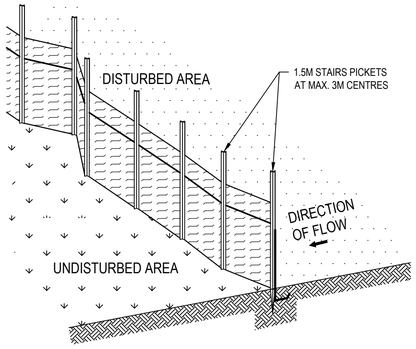


SEDIMENT FENCE PLAN
NTS



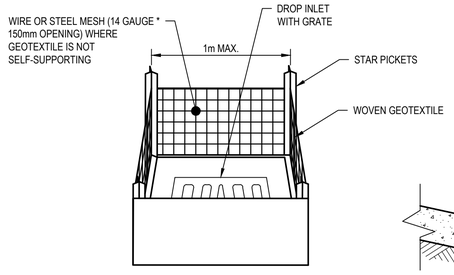
SEDIMENT FENCE SECTION
NTS



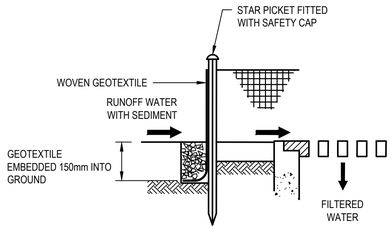
SEDIMENT FENCE
NTS

SILT FENCE CONSTRUCTION NOTES

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



GEOTEXTILE INLET FILTERS
NTS



GEOTEXTILE INLET FILTERS SECTION
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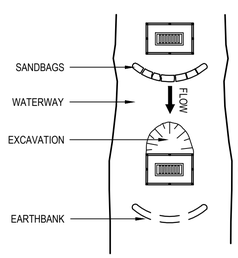
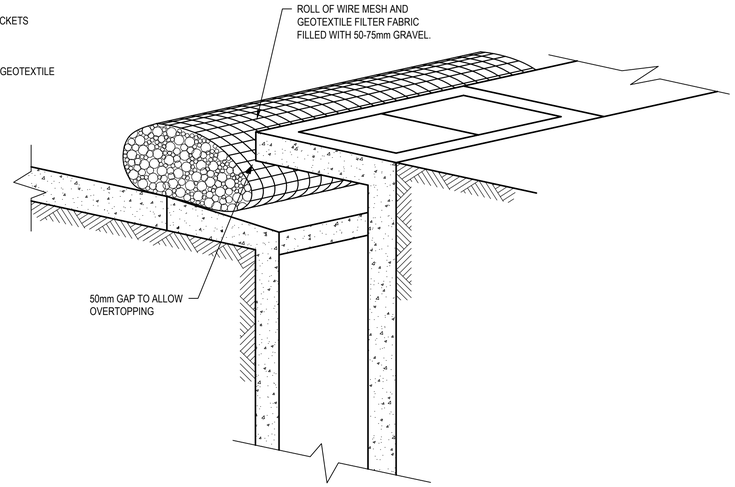


FOR DROP INLETS AT NON-SAG POINTS SANDBAGS, EARTH BANK OR EXCAVATION USED TO CREATE ARTIFICIAL SAG POINT.

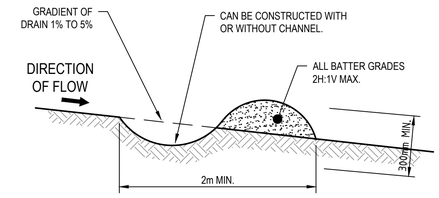
GEOTEXTILE INLET FILTER PLAN
NTS

CONSTRUCTION NOTES

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. SUPPORT GEOTEXTILE WITH MESH TIED TO POST AT 1m CENTRES
3. DO NOT COVER INLET WITH GEOTEXTILE.
4. CONSTRUCTION DETAILS ARE SIMILAR TO STANDARD DRAWING 6-6 AND STANDARD DRAWING 6-7.



KERB INLET FILTERS
NTS

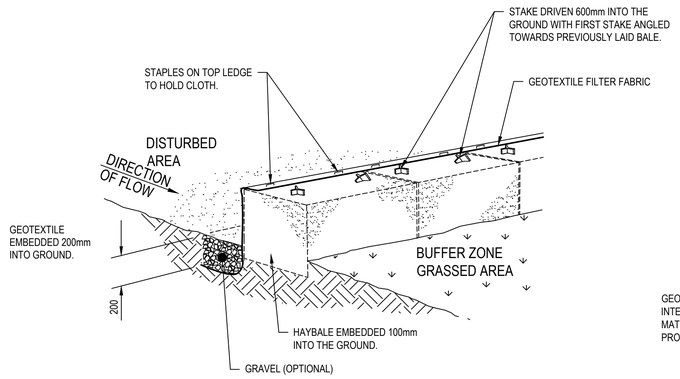


NOTE:
ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

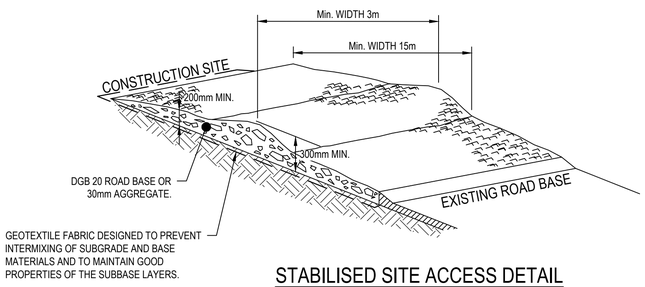
EARTH BANK (LOW FLOW)
NTS

EARTH BANK (LOW FLOW) CONSTRUCTION SEQUENCE

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



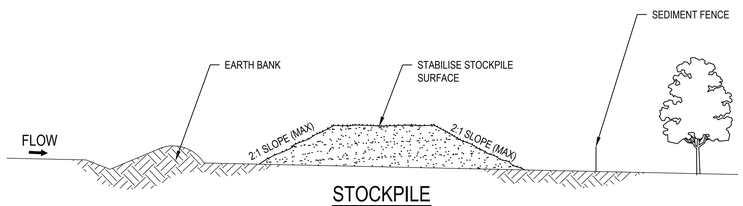
HAYBALE AND GEOTEXTILE SEDIMENT FILTER
NTS



STABILISED SITE ACCESS DETAIL
NTS

STABILISED SITE ACCESS CONSTRUCTION NOTES

1. STRIP TOPSOIL AND LEVEL SITE.
2. COMPACT SUBGRADE.
3. COVER AREA WITH NEEDLE - PUNCHED GEOTEXTILE.
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROAD BASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.



STOCKPILE
NTS

STOCKPILE CONSTRUCTION

1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOWS, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS A LOW, FAT, ELONGATED MOUND.
3. WHERE THERE IS SUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. REHABILITATE IN ACCORDANCE WITH THE CONSTRUCTION ENVIRONMENT MANAGEMENT PLAN. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

DEVELOPMENT APPLICATION

No	Revision	Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
C	ISSUED FOR DEVELOPMENT APPLICATION		MR	PM*	MD*	19.09.17
B	ISSUED FOR REVIEW		MR	PM*	MD*	12.09.17
A	ISSUED FOR DEVELOPMENT APPLICATION		MR	MD*	MW*	24.08.17

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Drafting Check A.MACLEAN*		Design Check A.RAHMAN*	
Approved (Project Director)			
Date			
Scale NTS	This Drawing must not be used for Construction unless signed as Approved		

Client THE DEPARTMENT OF EDUCATION
Project WAITARA PUBLIC SCHOOL
Title CIVIL
SEDIMENT CONTROL DEVICES

Original Size A1
Drawing No: 21-26108-WA-DA-CI-1036 Rev: C

Plot Date: 19 September 2017 - 4:40 PM Plotted by: Mona Rangwala
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