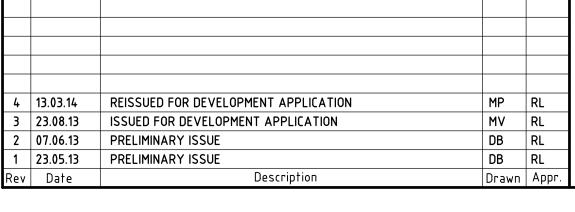
ST. GREGORY'S PLAYING FIELD RELOCATION PROJECT DEVELOPMENT APPLICATION





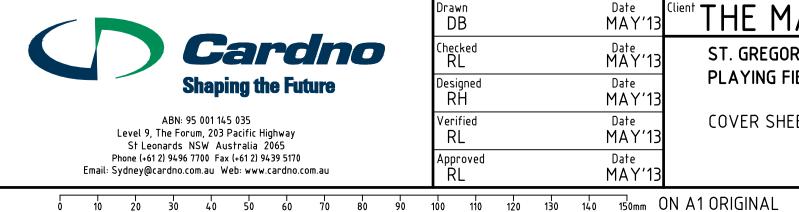




NORTH

LOCALITY PLAN

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IVIL DRAWING LIST

10021-DA-000 10021-DA-001 10021-DA-010 10021-DA-010 10021-DA-011 10021-DA-015 10021-DA-020 10021-DA-021 10021-DA-023 10021-DA-023 10021-DA-025 10021-DA-025 10021-DA-027 10021-DA-027 10021-DA-030	COVER SHEET NOTES AND LEGENDS GENERAL ARRANGEMENT PLAN EROSION AND SEDIMENT CONTROL PLAN EROSION AND SEDIMENT CONTROL DETAILS CUT AND FILL PLAN PLAYING FIELDS PLAN PLAYING FIELDS SECTIONS SHEET 1 PLAYING FIELDS SECTIONS SHEET 2 PLAYING FIELDS SECTIONS SHEET 3 PLAYING FIELDS SECTIONS SHEET 3 PLAYING FIELDS SECTIONS SHEET 4 PLAYING FIELDS SECTIONS SHEET 5 PLAYING FIELDS SECTIONS SHEET 5 PLAYING FIELDS ACCESS ROAD LONGITUDINAL SECTION DONOVAN BOULEVARD EXTENSION PLAN DONOVAN BOULEVARD EXTENSION SECTIONS
10021-DA-040	EASTERN ACCESS ROAD PLAN AND SECTIONS
10021-DA-045	TURNING PATH PLAN

ARIST BROTHERS				
RY'S COLLEGE IELD RELOCATION PROJECT	Status DEVI	ELOPMENT A	PPLICATION	
ET	Date MAY'13	Datum AHD	Scale NTS	Size A1
	Drawing Number	21-DA-	000	Revision 04

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, OFFICE OF WATER, SYDNEY WATER, THE DEPARTMENT OF ENVIRONMENT, OFFICE OF ENVIRONMENT AND HERITAGE (OEH) AND ST GREGORY'S COLLEGE REPRESENTATIVE TO THIS END. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS REPRESENT THE MINIMUM REQUIREMENT ONLY.

2 THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT.

3. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH a. LOCAL AUTHORITY REQUIREMENTS b. EPA REQUIREMENTS c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.

4. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY

5. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS

6. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY, REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS

LAND DISTURBANCE

7. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE AS A MINIMUM:

(A) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN REFER DETAIL

(B) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.

(C) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN

(D) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN

(E) UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE

EROSION CONTROL

8. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL

9. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

SEDIMENT CONTROL

10. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD IN STOCKFILES WILL NOT BE LOCATED WITHIN 2 HETRES OF HAZARD AREAS, INCLUING LIKELY BARCAS OF CONCENTRATEO OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.

11 ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

12. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE

13. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED

OTHER MATTERS

23.08.13 ISSUED FOR DEVELOPMENT APPLICATION

07.06.13 PRELIMINARY ISSUE 23.05.13 PRELIMINARY ISSUE

Date

14 ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

15. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY: (A) PROTECTING THEM WITH BARRIER FENCING OR SIMILAR

MATERIALS INSTALLED OUTSIDE THE DRIP LINE

(B) ENSURING THAT NOTHING IS NAILED TO THEM (B) ENSURING THAT NOTHING IS NAILED TO THEM (C) PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE

FOLLOWING CONDITIONS. (I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE

TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICH EVER IS THE GREATER

(II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE (II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO LIRUULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAVERS OF MORE THAN 300 MILLIMETRES DEPTH (III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO

COMPACT THE SOIL AROUND THEM.

DB RL

DB RL

BULK EARTHWORKS NOTES

1 ORIGIN OF LEVELS: REFER SURVEY NOTES 2 STRIP ALL TOPSOIL /ORGANIC MATERIAL FROM CONSTRUCTION AREA AND REMOVE FROM SITE OR STOCK PILE AS DIRECTED BY

SUPERINTENDENT. 3. EXCAVATED MATERIAL TO BE USED AS STRUCTURAL FILL PROVIDED THE PLACEMENT MOISTURE CONTENT OF THE MATERIAL IS +/- 2% (THE OPTIMUM MOISTURE CONTENT.

4. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN: LOCATION STANDARD DRY DENSITY

(A 3 1207 E 3.1	-14	
UNDER ROADS AND		
CARPARKS	100%	
LANDSCAPED AND PLAYING FIELD AREAS	95%	

5. FOR NON COHESIVE MATERIAL, COMPACT TO 75% DENSITY INDEX.

6. BEFORE PLACING FILL, PROOF ROLL EXPOSED SUBGRADE WITH AN 8 TONNE (MIN) DEADWEIGHT SMOOTH DRUM VIBRATORY ROLLER TO DETECT THEN REMOVE SOFT SPOTS (AREAS WITH MORE THAN 2mm MOVEMENT UNDER ROLLER

7 EREQUENCY OF COMPACTION TESTING SHALL BE NOT LESS THAN --(A) 1 TEST PER 200m³ OF FILL PLACED PER 300 LAYER OF FILL.
 (B) 3 TESTS PER VISIT

(C) 1 TEST PER 1000m² OF EXPOSED SUBGRADE TESTING SHALL BE "LEVEL 1" TESTING IN ACCORDANCE WITH AS 3798

8. FILLING TO BE PLACED IN MAXIMUM 250mm - LOOSE LAYERS AND COMPACTED AS SPECIFIED

9. NO FILLING SHALL TAKE PLACE TO EXPOSED SUBGRADE UNTIL THE AREA HAS BEEN PROOF ROLLED IN THE PRESENCE OF GEOTECHNICAL ENGINEER AND APPROVAL GIVEN IN WRITING THAT FILLING CAN DODOCED

SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.

2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO THE SUPERINTENDENT.

3. MAKE SMOOTH CONNECTION WITH EXISTING WORKS

4. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE AD LACENT MATERIAL

5. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN

6. ASPHALTIC CONCRETE SHALL CONFORM TO RMS SPECIFICATION R116.

7 ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051 (UNBOUND), RMS FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1

FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF BASECOURSE MATERIAL PLACED.

8. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH RMS FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m3 OF SUB-BASE COURSE MATERIAL PLACED.

9. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH RMS FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF CARDNO AND CANDEM COUNCIL

10. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THIS SHALL BE CLEARLY INDICATED IN THEIR TENDER AND THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED

11 WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY LEAN, LAUKENBY AND HAYWARD, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. CARDNO DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT CARDNO

THE ABOVE NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

CONCRETE NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 CURRENT EDITION WITH AMENDMENTS, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS. 2. CONCRETE QUALITY 2. CUNCRE TE GUALITY ALL REQUIREMENTS OF THE CURRENT ACSE CONCRETE SPECIFICATION DOCUMENT I SHALL APPLY TO THE FORMWORK, REINFORCEMENT AND CONCRETE UNLESS NOTED OTHERWISE.

ELEMENT	AS 3600 F'c MPa	SPECIFIED	NOMINAL
	AT 28 DAYS	SLUMP	AGG. SIZE
VEHICULAR BASE	32	60	20
KERBS, PATHS, AND	25	80	20
PITS			

- CEMENT TYPE SHALL BE (ACSE SPECIFICATION) TYPE SL PROJECT CONTROL TESTING SHALL BE CARRIED OUT IN ACCORDANCE WITH AS 1379.

3. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING BY THE SUPERINTENDEN

4. CLEAR CONCRETE COVER TO ALL REINFORCEMENT FOR DURABILITY SHALL BE 40mm TOP AND 70mm FOR EXTERNAL EDGES UNLESS NOTED OTHERWISE.

5. ALL REINFORCEMENT SHALL BE FIRMLY SUPPORTED ON MILD STEEL PLASTIC TIPPED CHAIRS, PLASTIC CHAIRS OR CONCRETE CHAIRS AT NOT GREATER THAN 1m CENTRES BOTH WAYS. BARS SHALL BE TIED AT ALTERNATE INTERSECTIONS

6. THE FINISHED CONCRETE SHALL BE A DENSE HOMOGENEOUS MASS, COMPLETELY FILLING THE FORMWORK, THOROUGHLY EMBEDDING THE REINFORCEMENT AND FREE OF STONE POCKETS, ALL CONCRETE INCLUDING SLABS ON GROUND AND FOOTINGS SHALL BE COMPACTED AND CURED IN ACCORDANCE WITH RMS SPECIFICATION R83. 7 REINFORCEMENT SYMBOLS:

7. REINFORCEMENT SYMBOLS: N DENOTES GRADE 450 N BARS TO AS 1302 GRADE N R DENOTES 230 R HOT ROLLED PLAIN BARS TO AS 1302 SL DENOTES HARD-DRAWW WIRE PEINFORMIG FABRIC TO AS 1304 NUMBER OF BARS IN GROUP BAR GRADE AND TYPE

17 N 20 250

NOMINAL BAR SIZE IN mm _____ SPACING IN mm THE FIGURE

FOLLOWING THE FABRIC SYMBOL SL IS THE REFERANCE NUMBER FOR FABRIC TO AS 1304

8. FABRIC SHALL BE LAPPED IN ACCORDANCE WITH THE FOLLOWING DETAIL

25 MIN LAP TWO WIRES

STORMWATER DRAINAGE NOTES

1 STORMWATER DESIGN CRITERIA 1. STURMWATER DESIGN UNTERNA: (A) AVERAGE RECURRENCE INTERVAL: 15. YEARS ROADS AND PLAYING FIELD DRAINAGE 1100 YEARS OVERLAND FLOWPATHS (B) RAINFALL INTENSITIES: TIME OF CONCENTRATION: 5 MINUTES 1:5 YFARS= 128.3 mm/hr

1:100 YEARS= 218.9 mm/hr

- 2. PIPES 375 DIA. AND LARGER TO BE REINFORCED CONCRETE CLASS '2' APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS, U.N.O.
- 3. PIPES UP TO 300 DIA SHALL BE SEWER GRADE uPVC WITH SOLVENT WELDED JOINTS.

4. EQUIVALENT STRENGTH FRC PIPES MAY BE USED.

6. PIPES TO BE INSTALLED TO TYPE HS1 SUPPORT IN ACCORDANCE WITH AS 3275 (198) IN ALL CASES BACKFILL TRENCH WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL REMAINDER OF TRENCH UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)

7. ALL INTERNAL WORKS WITHIN PROPERTY BOUNDARIES ARE TO COMPLY WITH THE REQUIREMENTS OF AS 3500 3.1 (1998) AND AS/NZS 3500 3.2 (1998

8. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE PREFABRICATED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.

9. WHERE SUBSOIL DRAINS PASS VEHICULAR PAVEMENTS, UNSLOTTED uPV0 SEWER GRADE PIPE IS TO BE USED

10. CARE IS TO BE TAKEN WITH LEVELS OF STORMWATER LINES, GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL

11. GRATES AND COVERS SHALL CONFORM TO AS 3996. 12 AT ALL TIMES DUDING CONSTRUCTION OF STORMWATED DITS

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ADEQUATE SAFETY PROCEDURES SHALL BE TAKEN TO ENSURE AGAINST THE POSSIBILITY OF PERSONNEL FALLING DOWN PITS.

13 ALL EXISTING STORMWATER ORAINAGE LINES AND RITS THAT ARE TO 13 ALE EXISTING STORMWATER URAINAGE LINES AND PTIS THAT ARE TO REMAIN ARE TO BE INSPECTED AND CLEANED. DURING THIS PROCESS ANY PART OF THE STORMWATER DRAINAGE SYSTEM THAT WARRANTS REPAIR SHALL BE REPORTED TO THE SUPERINTENDENT/ENGINEER FOR URTHER DIRECTIONS.

PROPOSED WORKS LEGEND EXISTING (REFER SURVEY NOTES)		
PROPOSED		
66.50	PROPOSED CONTOUR	
K&G	KERB AND GUTTER	
RK&G	ROLL KERB AND GUTTER	
	RETAINING WALL	
1	BATTER SLOPE	
<u>ss</u>	SUBSOIL PIPE	
¢375	STORMWATER PIT, LINE & SIZE	
	TREES TO BE REMOVED	
\bigcirc	TREES TO BE RETAINED	
TB012 🔶	APPROXIMATE TEST BORE LOCATION. CARDNO GEOTECH SOLUTIONS (MAY 2013)	

KERBING NOTES

1. ALL CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 25 MPa U.N.O IN REINFORCED CONCRETE NOTES.

2. ALL KERBS, GUTTERS, DISH DRAINS AND CROSSINGS TO BE CONSTRUCTED ON 175mm GRANULAR BASECOURSE COMPACTED TO MINIMUM 95% MODIFIED DRY DENSITY (AS 1289 5.2.1).

3 EXPANSION JOINTS (F J) TO BE FORMED FROM 10mm COMPRESSIBLE 3. EXPANSION JOINTS (E.J) TO BE FORMED FROM 10mm COMPRESSIBLE CORK FILLER BOARD FOR THE FULL DEPTH OF THE SECTION AND CUT TO PROFILE. EXPANSION JOINTS TO BE LOCATED AT DRAINAGE PITS, ON TANGENT POINTS OF CURVES AND ELSEWHERE AT MAX 12m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE EXPANSION JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

4. WEAKENED PLANE JOINTS TO BE MIN 3mm WIDE AND LOCATED AT 3m CENTRES EXCEPT FOR INTEGRAL KERBS WHERE THE WEAKENED PLANE JOINTS ARE TO MATCH THE JOINT LOCATIONS IN THE SLABS.

BROOMED FINISH TO ALL RAMPED AND VEHICULAR CROSSINGS. ALL OTHER KERBING OR DISH DRAINS TO BE STEEL FLOAT FINISHED.

6. IN THE REPLACEMENT OF KERB AND GUTTER :-EXISTING ROAD PAVEMENT IS TO BE SAWCUT 900mm U.N.O FROM THE LIP OF GUTTER. UPON COMPLETION OF THE NEW KERB AND GUTTER NEW BASECOURSE AND SURFACE TO BE LAID 900mm WIDE U.N.O.

DB

Checked RL

Designed RH

Verified RL

Approved RI

Cardno

0 10 20 30 40 50 60 70 80 90 100 110 120 130

Shaping the Future

ABN: 95 001 14,5 035 Level 9, The Forum, 203 Pacific Highway St Leonards NSW Australia 2065 Phone (+61 2) 896 7000 Fax (+61 2) 439 5170 Email: Sydney@cardno.com.au Web: www.cardno.com.au

THE M.

Date MAY'1

Date MAY'1

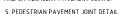
Date MAY'

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Date MAY'1

140 150mm ON A1 ORIGINAL







NB: CHECK RELEVANT COUNCIL REQUIREMENTS IF IN PUBLIC ROAD.

GENERAL

1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH CAMDEN COUNCIL SPECIFICATIONS WHERE RELEVANT

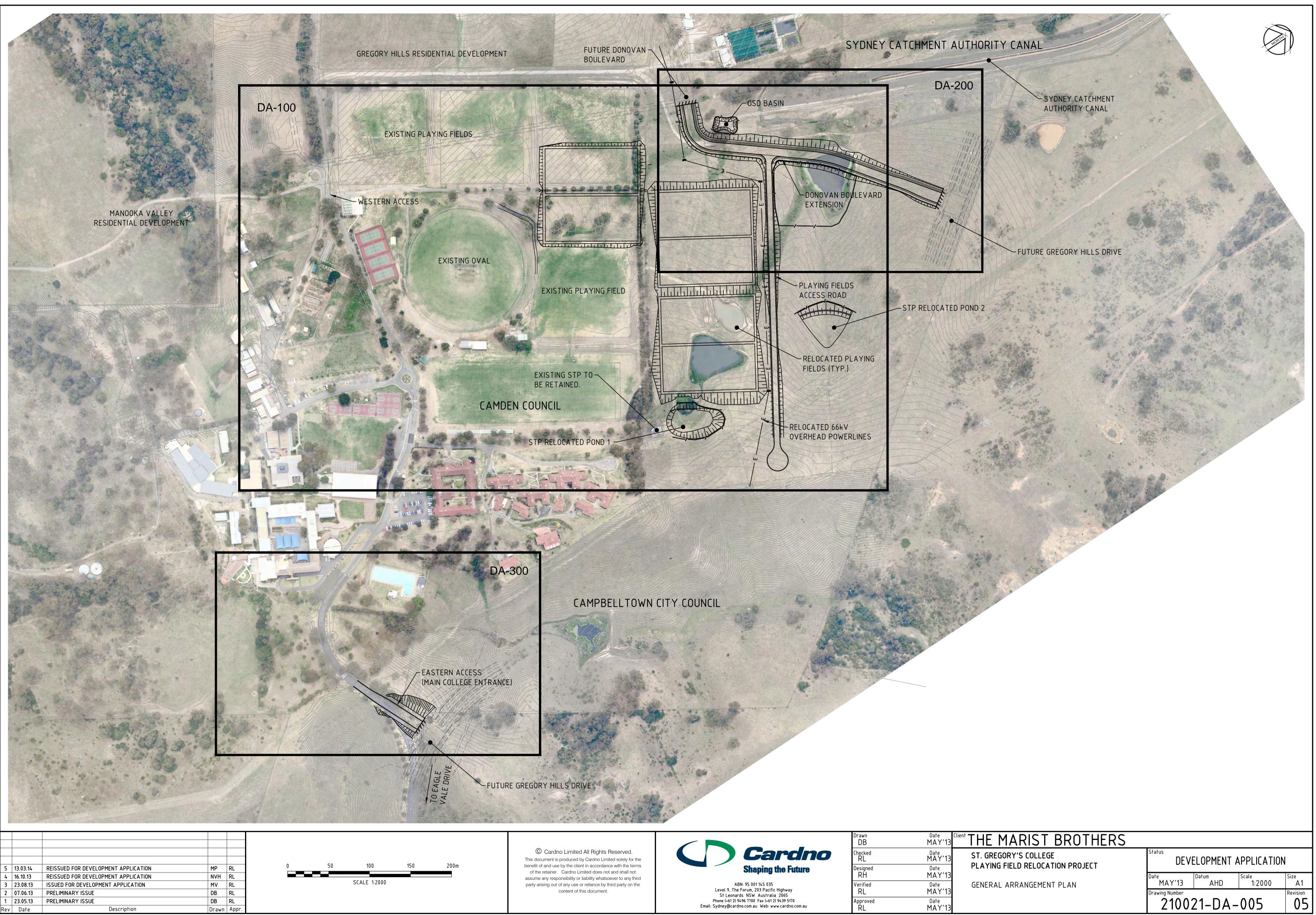
2. CAMDEN COUNCIL AND CAMPBELLTOWN CITY COUNCIL STANDARD DETAILS TO BE USED WHERE POSSIBLI

3. UTILITY ADJUSTMENTS AT DEVELOPERS EXPENSE.

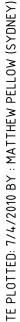
4. CONDUITS TO BE PLACED WHERE REQUIRED BY THE RELEVANT AUTHORITIES

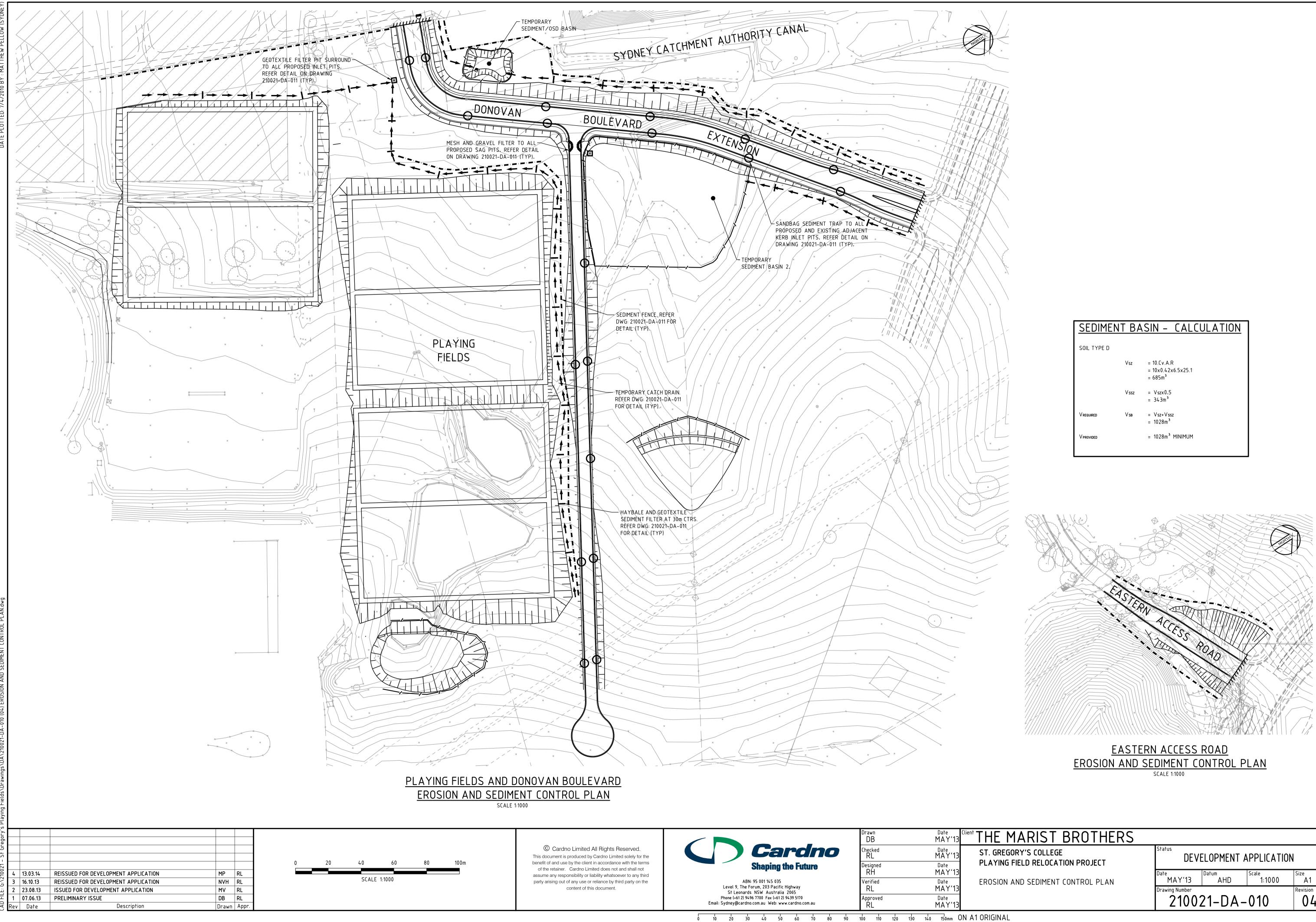
5. SUBSOIL DRAINAGE LINES TO BE PLACED AS INDICATED ON DRAWINGS

THE MARIST BROTHERS				
ST. GREGORY'S COLLEGE PLAYING FIELD RELOCATION PROJECT	Status DEVI	ELOPMENT A	PPLICATION	
NOTES AND LEGENDS	Date MAY'13	Datum AHD	Scale NTS	Size A1
	Drawing Number	21-DA-		Revision 03



Client THE M	^{Date} MAY'13
ST. GREGO	Date MAY'13
PLAYING F	^{Date} MAY'13
GENERAL A	^{Date} MAY'13
	Date MAV13

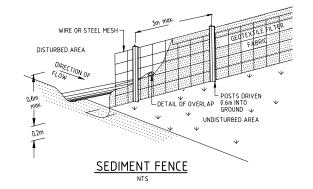


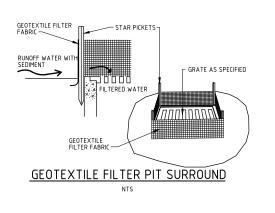


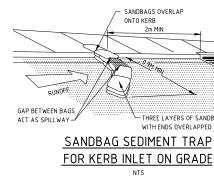
SEDIMENT BASIN -	CALCULATION

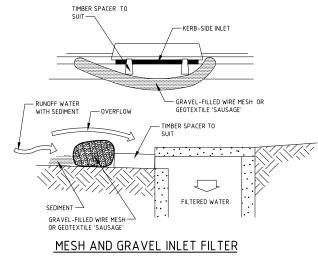
	Vsz	= 10.Cv.A.R = 10x0.42x6.5x25.1 = 685m ³
	Vssz	= Vszx0.5 = 343m³
EQUIRED	V sb	= Vsz+Vssz = 1028m ³
ROVIDED		= 1028m ³ MINIMUM

ARIST BROTHERS				
RY'S COLLEGE ELD RELOCATION PROJECT	Status DEVE	ELOPMENT A	PPLICATION	
ND SEDIMENT CONTROL PLAN	Date MAY'13	Datum AHD	Scale 1:1000	Size A1
	Drawing Number	21-DA-	010	Revision 04

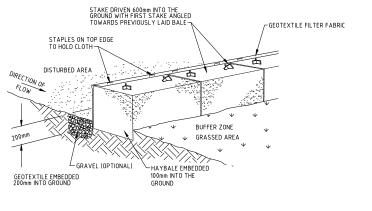








NTS



HAYBALE AND GEOTEXTILE SEDIMENT FILTER

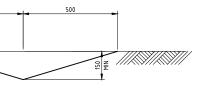
Date MAY'13 **THE MARIST BROTHERS** Drawn DB Cardno Cardno Limited All Rights Reserved. ^{Checked} RL Date MAY'13 ST. GREGORY'S COLLEGE The document is produced by Cardino Limited solely for the benefit of and use by the client in accordance with the terms of the retainer. Cardno Limited does not and shall not assume any responsibility or liability whatsoever to any third party arising out of any use or reliance by third party on the content of this document. DEVELOPMENT APPLICATION PLAYING FIELD RELOCATION PROJECT Date MAY'1 **Shaping the Future** Designed RH te MAY'13 Datum AHD AS SHOWN A1
 3
 23.08.13
 ISSUED FOR DEVELOPMENT APPLICATION

 2
 07.06.13
 PRELIMINARY ISSUE

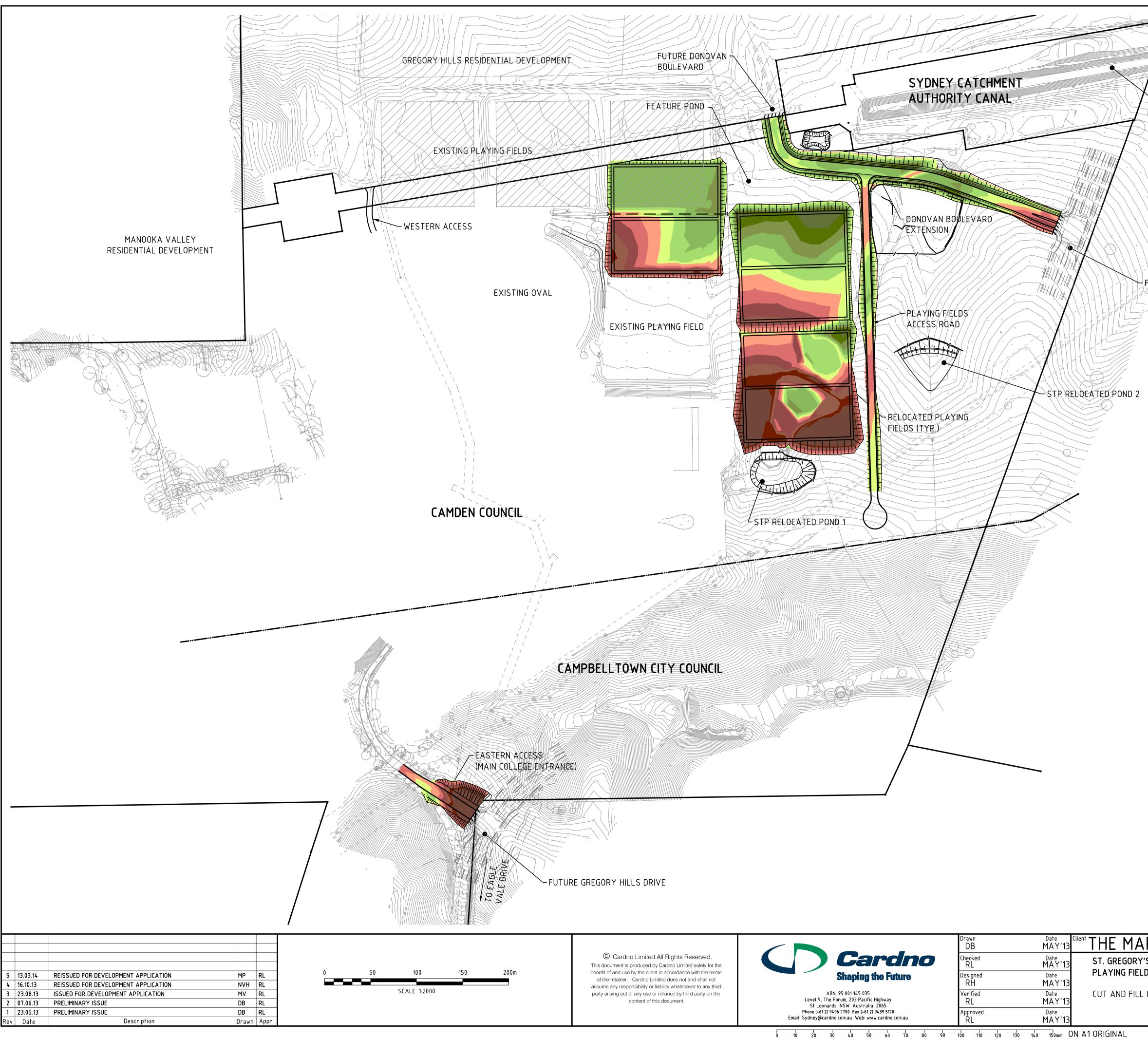
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 23.05.13
 PRELIMINARY ISSUE
 MV RL DB RL DB RL ABN: 95 001 145 035 Level 9, The Forum, 203 Pacific Highway St Leonards NSW Australia 2065 Phone (+612) 9496 7100 Far. (642) 9439 5170 Email: Sydney@cardno.com.au Web: www.cardno.com.au Verified RL Date MAY'13 EROSION AND SEDIMENT CONTROL DETAILS wing Number Date MAY'1 210021-DA-011 03 Approved RL v Date Drawn Appr Descripti

EXISTING SURFACE LEVEL (E.S.L.

SOVERLAP RB n MIN	
	+
27 MIL	
REE LAYERS OF S TH ENDS OVERLAF	



TEMPORARY CATCH DRAIN (MIN FALL 0.5%) SCALE 1.10



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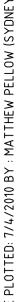
FUTURE GREGORY HILLS DRIVE

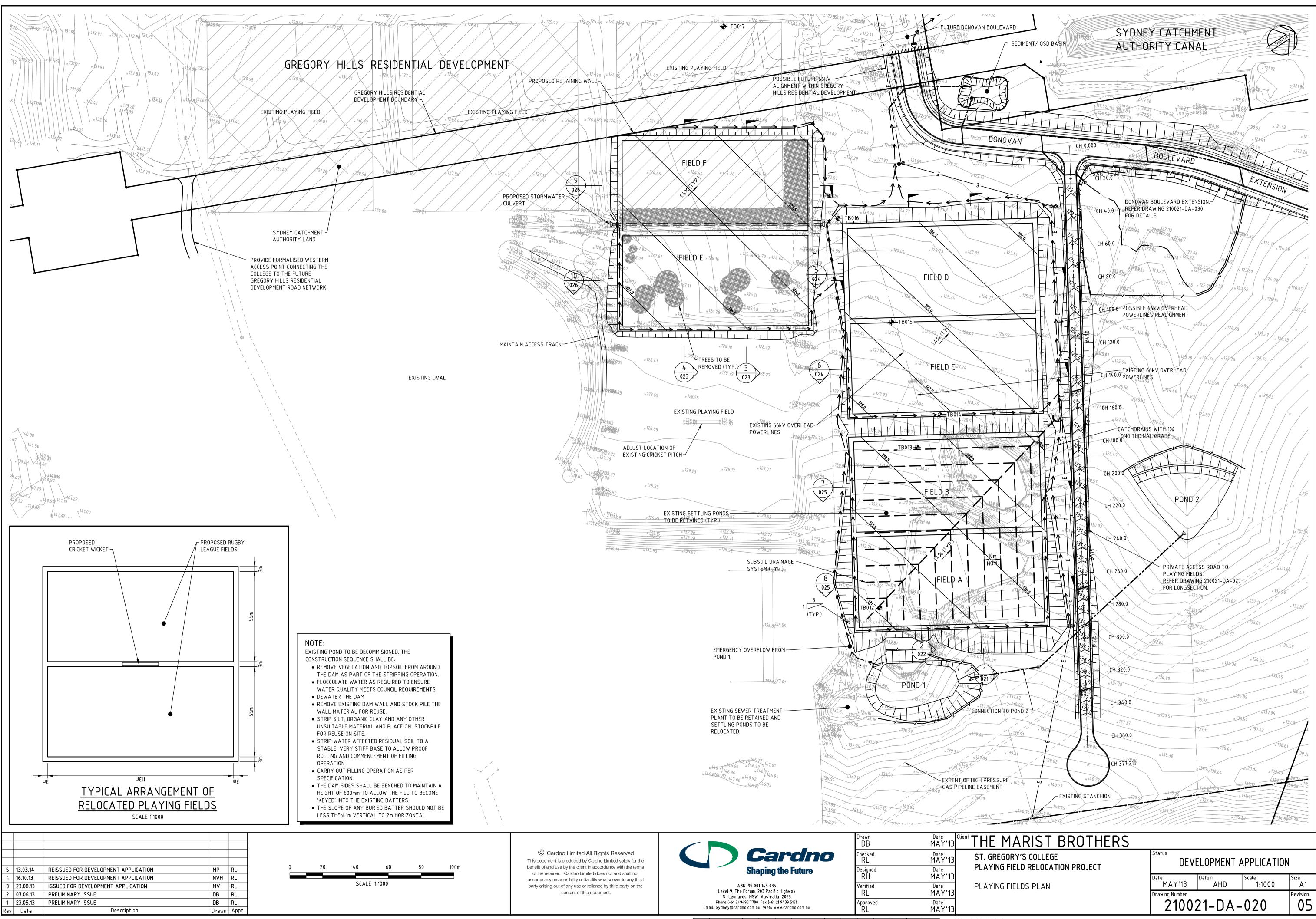
SYDNEY CATCHMENT AUTHORITY CANAL

> LEGEND Lower Upper Colour -99 to -3.5 1 -3.5 to -3 1 -3 to -2.5 1 -2.5 to -2 1 to -1.5 1 -2 -1.5 to -1 1 to -0.5 1 -1 -0.5 to -0.01 1 -0.01 to 0 1 to 0.01 1 to 0.5 1 0.01 0.5 to 1 1 to 1.5 1 1.5 to 2 1

	Drawing Numbe		1-D.	A-0'	15	Revision
- PLAN	Date MAY'1		atum AHD	Scal	- 1:2000	Size A1
'S COLLEGE .D RELOCATION PROJECT	Status DEVELOPMENT APPLICATION					
RIST BROTHERS						
	3.5	to	100	1		
	3	to	3.5	1		
	2.5	to	3	1		
	2	to	2.5	1		

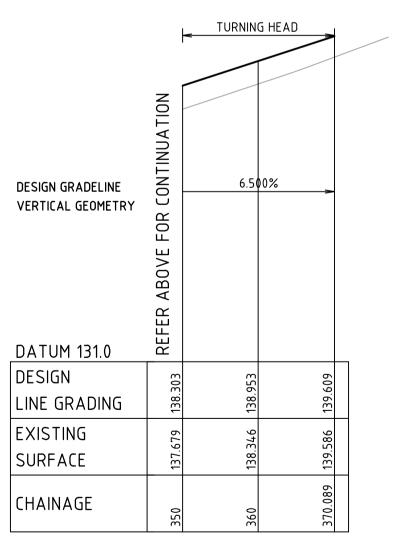






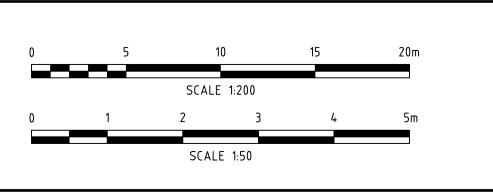
0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150mm ON A1 ORIGINAL

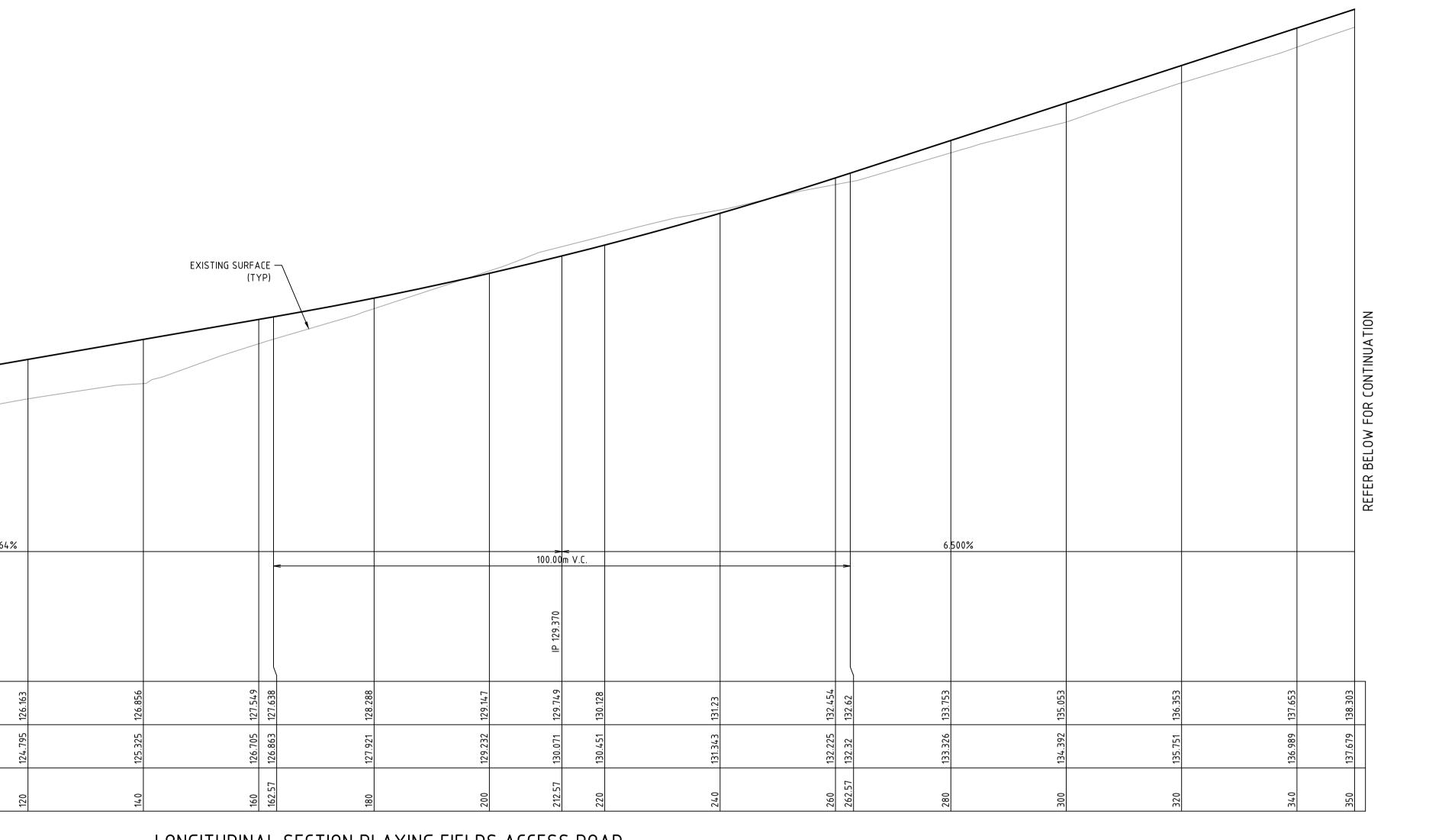
	CL DONOVAN ROULEVARD EXTENSION			SAG CH 17.522	RL 122.755m					PROPOSED SU	JRFACE (TYP)
DESIGN GRADELINE VERTICAL GEOMETRY	-	2.850%	-2.5	850% 15.00 859 CL d		.[.					3.4645
DESIGN LINE GRADING	123.158	123.021	122.852	122.755	122.756	122.768	195 501	124.084	124.777	125.47	
EXISTING SURFACE	121.611	121.84	122.043				120.221	123.78	124.349		
CHAINAGE	0	4.803	10.752				767.67	60	80		



LONGITUDINAL SECTION PLAYING FIELDS ACCESS ROAD Continued HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100

3	13.03.14	REISSUED FOR DEVELOPMENT APPLICATION	MP	RL
2	23.08.13	ISSUED FOR DEVELOPMENT APPLICATION	MV	RL
1	07.06.13	PRELIMINARY ISSUE	DB	RL
Rev	Date	Description	Drawn	Аррг.





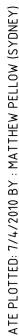
LONGITUDINAL SECTION PLAYING FIELDS ACCESS ROAD

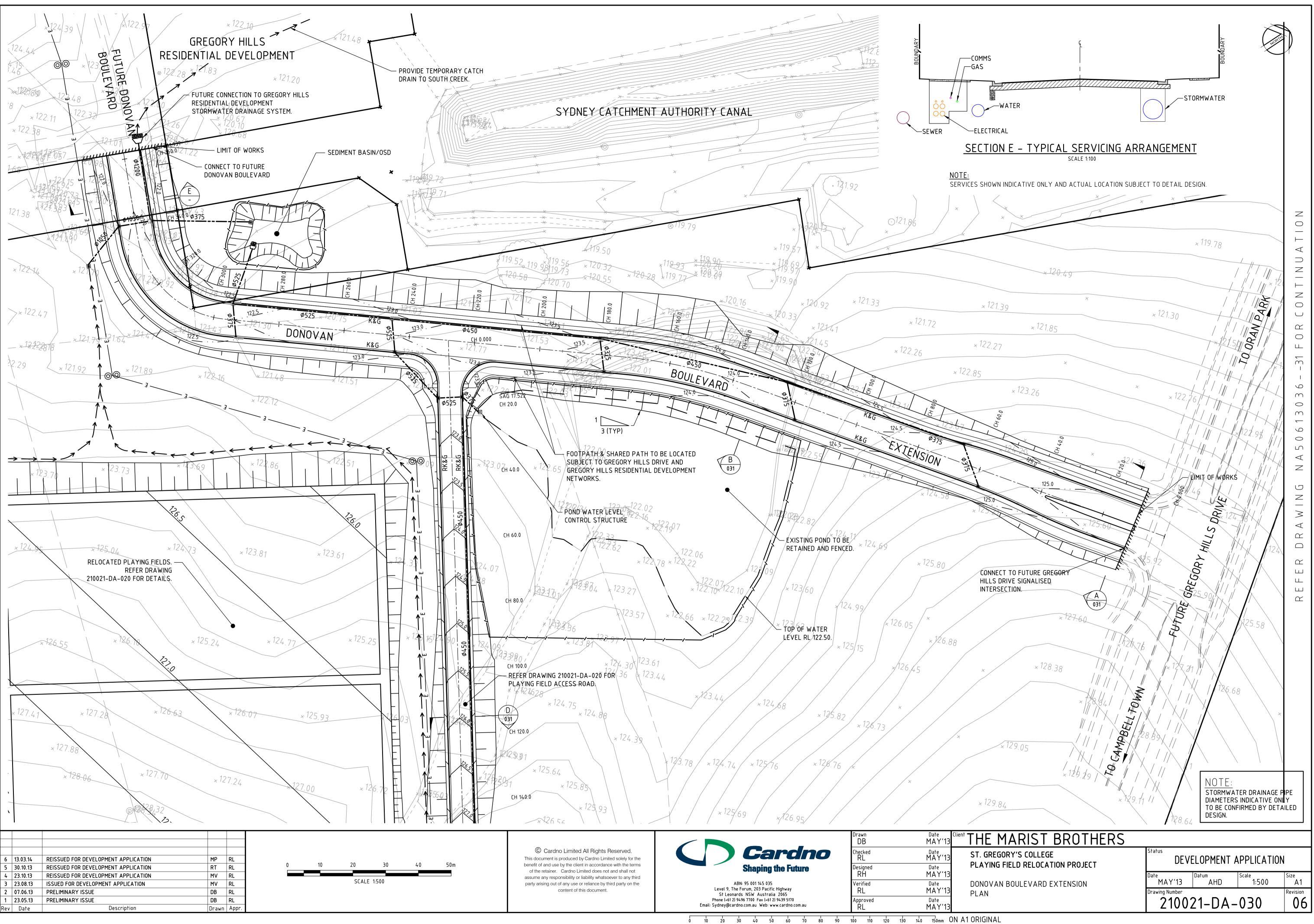
HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100

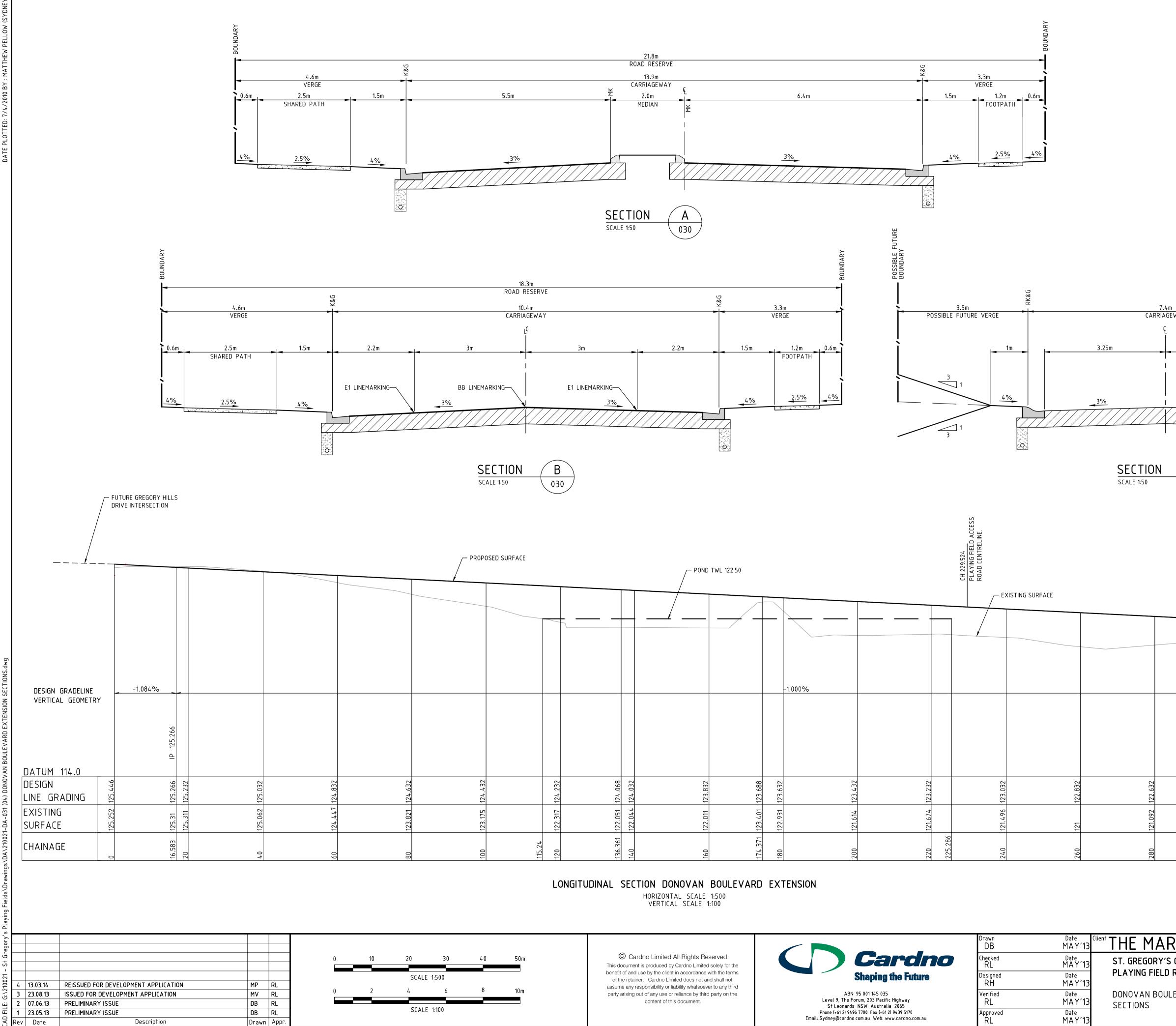
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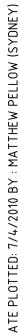
ARIST BROTHERS						
RY'S COLLEGE IELD RELOCATION PROJECT	Status DEVELOPMENT APPLICATION					
IELDS ACCESS ROAD	Date MAY'13	Datum AHD	^{Scale} AS SHOWN	Size A1		
NAL SECTION	Drawing Number	21-DA-	027	Revision 03		

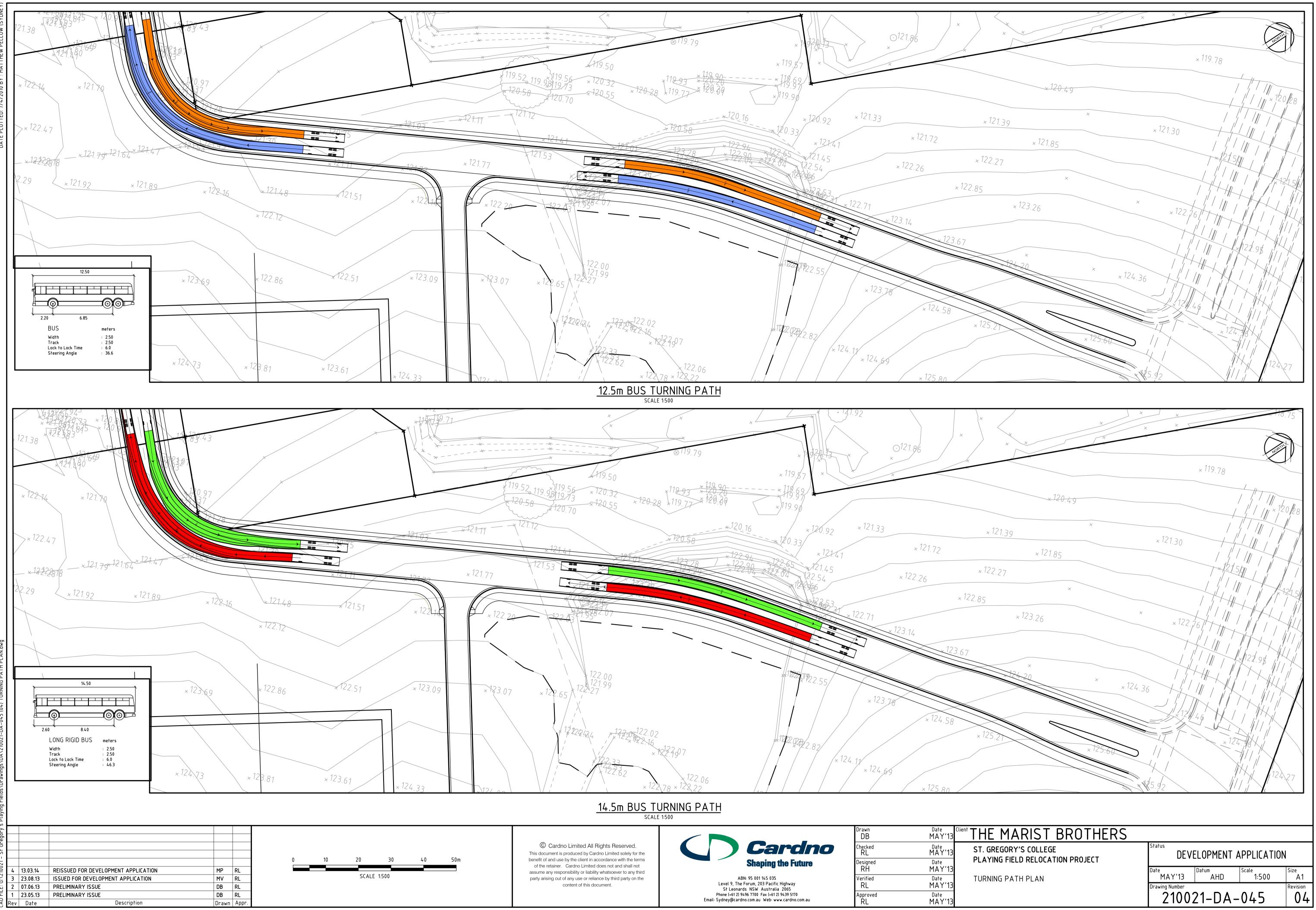






7.4m ARRIAGEWAY	3.5m POSSIBLE FUTURE VERGE
G 3.25m 1 3%	$\frac{1}{4}$ $\frac{3}{1}$ $\frac{1}{3}$ $\frac{1}$
	FUTURE DONOVAN BOULEVARD
121.092 122.632 121.324 122.468 121.342 122.432 121.342 122.432 121.342 122.232 120.995 122.232	120.948 122.076 120.863 122.032 120.666 121.932 120.756 121.832
280	335.631 12 340 12 350 12 360 12
ARIST BROTHERS DRY'S COLLEGE FIELD RELOCATION PROJECT BOULEVARD EXTENSION	Status DEVELOPMENT APPLICATION Date Datum Scale Size MAY'13 Datum AHD Scale A1 Drawing Number Z10021-DA-031 Revision 04





0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150mm ON A1 ORIGINAL