

4 March 2019

Our Ref: 1238758 File Ref: 05/APP/03

Your Ref: STP17-0779 Enquiries: Matthew Kelly

STP Consultants Ken Miller PO Box 1777 TOWNSVILLE QLD 4810

Sent via email: kenm@stpconsultants.com

Dear Sir

Decision Notice - Approval (Given under s63 of the *Planning Act 2016*)

The Assessment Manager acknowledges receipt of development application OW19/05 on 1 February 2019 and wishes to advise that the application was assessed and decided under delegated authority on 4 March 2019 with a recommendation of approval. The approval is subject to reasonable and relevant conditions as detailed below.

Applicant details

Applicant name:

STP Consultants - Ken Miller

Location details

Street address:

30-40 Elphinstone Street, Ravenswood QLD 4816

Real property description:

Lot 1 on SP295425

Local government area:

Charters Towers Regional Council

Application details

Application number:

OW19/05

Approval type:

Development Permit

Development type:

Operational Works

Description of development:

Earthworks, roadworks (including signage), stormwater drainage and erosion

and sediment control in two stages

Categorising instrument:

Aligned Dalrymple Shire Planning Scheme 2006

1. Details of the approval

Details of the approval are listed below in accordance with the Planning Regulation 2017.

	Planning Regulation 2017 reference	Development Permit	Preliminary Approval
Development assessable under the planning scheme, a temporary local planning instrument, a master plan or a preliminary approval which includes a variation approval		\boxtimes	

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2. Conditions of approval

Conditions of this approval are included within Attachment 1.

3. Approved plans and specifications

The approved plans for this development approval are listed below:

Drawing title:	Prepared by:	Date:	Reference no:	Revision:
Face Sheet	STP Consultants	01/02/2019	C00.01	1
General Arrangement Plan	STP Consultants	01/02/2019	C00.02	1
Site Sections Plan	STP Consultants	01/02/2019	C00.03	С
Earthworks Management Plan	STP Consultants	01/02/2019	C01.01	1
Open Drain 1 Longitudinal Section	STP Consultants	01/02/2019	C01.02	F
Open Drain 1 Cross Sections	STP Consultants	01/02/2019	C01.03	F
Open Drain 2 Long & Cross Sections	STP Consultants	01/02/2019	C01.04	F
Open Drain 3 Long & Cross Sections	STP Consultants	01/02/2019	C01.05	С
Open Drain Control Line & Setout Table	STP Consultants	01/02/2019	C01.06	В
Intersection Layout Plan - Sheet 1 of 2	STP Consultants	01/02/2019	C02.02	1
Intersection Layout Plan - Sheet 2 of 2	STP Consultants	01/02/2019	C02.03	G
Intersection Details	STP Consultants	01/02/2019	C02.04	Н
Finished Footpath Levels	STP Consultants	01/02/2019	C02.05	D
Linemarking & Signage Layout Plan	STP Consultants	01/02/2019	C02.06	В
Stormwater Drainage Layout Plan	STP Consultants	01/02/2019	C03.01	T
Stormwater Longitudinal Section - Sheet 1 of 3	STP Consultants	01/02/2019	C03.03	Н
Stormwater Longitudinal Section - Sheet 2 of 3	STP Consultants	01/02/2019	C03.04	G
Stormwater Longitudinal Section - Sheet 3 of 3	STP Consultants	01/02/2019	C03.05	G
Stormwater Drainage Details - Sheet 1 of 3	STP Consultants	01/02/2019	C03.06	F
Stormwater Drainage Details - Sheet 2 of 3	STP Consultants	01/02/2019	C03.07	D
Stormwater Drainage Details - Sheet 3 of 3	STP Consultants	01/02/2019	C03.08	D
Construction Phase Erosion Sediment Control	STP Consultants	01/02/2019	C06.01	В
Erosion & Sediment Control Procedures & Notes	STP Consultants	01/02/2019	C06.02	В
On Maintenance Stormwater Quality Management Plan	STP Consultants	01/02/2019	C06.03	В
Erosion & Sediment Control Details - Sheet 1 of 2	STP Consultants	01/02/2019	C06.04	В
Erosion & Sediment Control Details - Sheet 2 of 2	STP Consultants	01/02/2019	C06.05	В

The approved plans in relation to this approval are included within Attachment 2.

4. Currency period for the development application approval

In accordance with section 85 of the Planning Act 2016, this approval has a currency period of two years.

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5. Further development permits

Please be advised that the following development permits are required to be obtained before the development can be carried out:

- 1. Building Works
- 2. Plumbing and Drainage Works

6. Referral agencies

There are no referral agencies for this application.

7. Submission(s)

Properly made submissions were not made in relation this development.

8. Other requirements under section 43 of the Planning Regulation 2017

There are no other requirements.

9. Appeal rights

The rights of an applicant to appeal to a tribunal or the Planning and Environment Court against a decision are set out in Chapter 6, Part 1 of the *Planning Act 2016*. For particular applications, there may also be a right to make an application for a declaration by a tribunal (see Chapter 6, Part 2 of the *Planning Act 2016*). Information about how to proceed with an appeal to the Planning and Environment Court may be found on the Court's website: http://www.courts.qld.gov.au/courts/planning-and-environment-court.

An applicant may also have a right to appeal to the Development tribunal. For more information, see schedule 1 of the *Planning Act 2016*. The timeframes for starting an appeal in the Planning and Environment Court are set out in Section 229 and Schedule 1 of the *Planning Act 2016*.

For further information please contact Council's Senior Manager Planning and Development, Matthew Kelly on (07) 4761 5522.

Yours faithfully

Aaron Johansson
Assessment Manager
Chief Executive Officer





Attachment 1—Conditions of the approval

Part 1—Conditions imposed by the assessment manager

Condition Number	Condition	Timing				
	Plans/Documents					
1.	Development is to be ca application including the required to satisfy the co	following pla	ns except whe	lance with the re amendme	e submitted nts are	At all times
	Drawing title:	Prepared by:	Date:	Reference no:	Revision:	
	Face Sheet	STP Consultants	01/02/2019	C00.01	1	
	General Arrangement Plan	STP Consultants	01/02/2019	C00.02	ı	
	Site Sections Plan	STP Consultants	01/02/2019	C00.03	С	
	Earthworks Management Plan	STP Consultants	01/02/2019	C01.01	1	
	Open Drain 1 Longitudinal Section	STP Consultants	01/02/2019	C01.02	F	
	Open Drain 1 Cross Sections	STP Consultants	01/02/2019	C01.03	F	
	Open Drain 2 Long & Cross Sections	STP Consultants	01/02/2019	C01.04	F	
	Open Drain 3 Long & Cross Sections	STP Consultants	01/02/2019	C01.05	С	
	Open Drain Control Line & Setout Table	STP Consultants	01/02/2019	C01.06	В	
	Intersection Layout Plan - Sheet 1 of 2	STP Consultants	01/02/2019	C02.02	I	
	Intersection Layout Plan - Sheet 2 of 2	STP Consultants	01/02/2019	C02.03	G	
	Intersection Details	STP Consultants	01/02/2019	C02.04	Н	
	Finished Footpath Levels	STP Consultants	01/02/2019	C02.05	D	
	Linemarking & Signage Layout Plan	STP Consultants	01/02/2019	C02.06	В	
	Stormwater Drainage Layout Plan	STP Consultants	01/02/2019	C03.01	1	
	Stormwater Longitudinal Section - Sheet 1 of 3	STP Consultants	01/02/2019	C03.03	Н	
	Stormwater Longitudinal Section - Sheet 2 of 3	STP Consultants	01/02/2019	C03.04	G	
	Stormwater Longitudinal Section - Sheet 3 of 3	STP Consultants	01/02/2019	C03.05	G	

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Condition	Condition					Timing
Number	Charman D.	CTD	01/00/000			
	Stormwater Drainage Details - Sheet 1 of 3	STP Consultants	01/02/2019	C03.06	F	
	Stormwater Drainage	STP	01/02/2019	C03.07	D	
	Details - Sheet 2 of 3	Consultants	01/02/2015	C03.07		
	Stormwater Drainage	STP	01/02/2019	C03.08	D	
	Details - Sheet 3 of 3	Consultants				
	Construction Phase	STP	01/02/2019	CO6.01	В	
	Erosion Sediment Control	Consultants				
	Erosion & Sediment	STP	01/02/2019	C06.02	В	
	Control Procedures & Notes	Consultants				
	On Maintenance Stormwater Quality	STP Consultants	01/02/2019	C06.03	В	
	Management Plan Erosion & Sediment	STP	01/02/2019	C06.04	В	
	Control Details - Sheet 1 of 2	Consultants	01/02/2019	C06.04	В	
	Erosion & Sediment	STP	01/02/2019	C06.05	В	
	Control Details - Sheet 2 of 2	Consultants				
2.	Copies of the full set of	plans for the	proposed wo	rks (one x	A3 drawings	Prior to
	and a digital copy in PDF	format correc	ctly scaled), m	ust be re-su	ubmitted and	commencement
	accepted by Council. A	.ll drawings a	are to be ce	rtified by a	a Registered	of construction
	Professional Engineer Q design certificate report.	ueensland (R	PEQ) and to	be accom	panied by a	for each stage
3.	As constructed informa	tion in the	prescribed di	gital forms	ats must be	Prior to
	submitted to Council fo	r review and	accentance	prior to in	spections or	commencement
	placing the construction '	on maintenan	ce'. The data i	s to be sub	mitted with a	of construction
	cover note detailing the o					for each stage
	of the land, address and o	onsultant's na	me and conta	ict details.	accompanion	Tor cach stage
Seneral	-					
1.	The applicant is to;					At all times
	a) Comply with all co	nditions with	nin this Dev	elopment	Permit with	
	conditions prevailing instances	over the app	roved plan(s)	and docun	nent(s) in ali	
	b) Meet the cost of all wo	arks associato	d with the de	(alaanaanti	ب سے سے انسان میں اس	
	alterations, relocation					
	including roads, footpa					
	c) All repairs, alterations					
	in accordance with	the relevant	: Council po	licv and/o	r Australian	
	Standard.		,		, , , ascranari	
Environmer	ntal					
	The applicant is to e	nsure that	erosion and	sedimenta	tion control	As part of
5.	Haraman and the state of the st	construction and				
5.	management is undertal	cii and man	realited to pr	010110 0011	Crosion and	
5.	sedimentation runoff to	watercourses	and Council's	storm wa	ter drainage	thereafter for
5.	sedimentation runoff to system. Erosion and sedil Control - Engineering Gu	watercourses ment control i	and Council's is to be in acc	storm wa cordance wi	ter drainage ith <i>Sediment</i>	

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6.	The construction of the development (not operation) must be limited to 0630—1830 Monday to Saturday and not at all on Sunday and public holidays, unless otherwise approved by Council. Noise generated from construction must be within the limits set by the <i>Environmental Protection Act 1994</i> and the <i>Environmental Protection (Noise) Policy 2008</i> .	As part of construction for each stage
7	The applicant is to ensure that; a) Works occur so they do not cause unreasonable interference with the amenity of adjoining premises because of noise, air or other chemical pollutants b) The premises including the adjoining Council controlled road reserve are kept in a safe, clean and tidy state, and c) All construction materials are contained wholly within the premises.	As part of construction for each stage
8.	Do not place earth fill adjacent or in proximity to any site boundary unless; a) The fill is retained on the boundary with approval from Council, and b) Adjoining properties are not adversely affected with respect to a loss of privacy and safety (caused by the ability for example to look over boundary fences) and changes in the natural drainage pattern because of the works.	As part of construction for each stage
Pre-constru		
9.	The applicant must contact Council to arrange a pre-start meeting. The pre- start meeting must include the following; a) Notification of the principal contractor for the works b) A copy of the contractor's public liability insurance policy for a minimum of twenty million dollars indemnifying Council against all claims resulting from the construction works of this development c) A programme of works, demonstrating all major activities and milestones, and d) A Traffic Management Plan addressing the following; i) safe and accessible pedestrian movement in and around the site over the life of the project; ii) access and egress for the site over the life of the project iii) haul routes for earthworks and other construction activities over the life of the project iv) general traffic guidance around the site over the life of the project, and v) proposed parking areas for construction vehicles, staff working on-	Prior to commencement of construction for each stage
	site and visitors.	
Maintenanc		
10.	A maintenance and defects bond calculated at 5% of the total cost of construction for all works which are to be transferred to Council upon the completion of the development is to be paid. The costs of the construction are to be demonstrated be an itemised bill of quantities provided by a Quantity Surveyor RPEQ. The bond is to be held by Council in trust until the works are considered 'off maintenance'.	Prior to works being requested to be 'on maintenance' for each stage
11.	An 'on maintenance' inspection is required to be undertaken and the works which are to be transferred to Council must be placed 'on maintenance' for a minimum period of twelve months (maintenance period) following the satisfactory demonstration and inspection of the final works.	After completion of construction of each stage
12.	Upon the completion of the 'maintenance period', rectification of all defects identified by Council are to be completed to the satisfaction of Council. Upon Council being satisfied with the results of an 'off maintenance' inspection and compliance against development approvals conducted by Council Officers following the end of the maintenance period.	After completion of maintenance period for each stage

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Transport	and Access			
13.	The applicant shall lodge and obtain approval for an application to carry out public access/footpath work as part of works within the Council controlled road reserve.	Prior to works within Council's road reserve		
14.	Under Part 1 Clause 1.10 of the Manual of Uniform Traffic Control Devices Queensland, Council delegates the principal contractor the responsibility for the installation of all official traffic signs, as detailed in the approved plans, installed in accordance with the methods, standards and procedures prescribed in the Manual of Uniform Traffic Control Devices, or other duly approved documents.	As part of construction for each stage		
15.	All driveway crossovers are to be constructed accordance with Council standard engineering specifications CTRC-004 Roads commercial and/or truck turnout, CTRC-006 Roads cross section footpath types with joining and Telstra joining details and CTRC-010 - Typical urban roads cross section at no cost to Council.	RC-004 Roads commercial and/or construction for section footpath types with joining stage one		
16.	Car parking spaces are to be constructed on site generally in accordance with the approved plans, including designated disabled car parking spaces. These spaces and all vehicle movement areas are to be constructed, sealed, line marked, provided with wheel stops and maintained in accordance with and AS2890.1 Off-Street Car Parking and the Manual of Design Vehicles and Turning Path Templates SAA HB 72 (AUSTROADS 1995).	As part of construction for stage one		
17.	The design and installation of all street, path or public lighting in accordance with AS/NZ 1158 Lighting for roads and public spaces must be undertaken by the applicant and be at no cost to Council. The street and path light system must be designed in accordance with the 'Crime Prevention through Environmental Design: Guidelines for Queensland' produced by the Queensland Government and unless otherwise approved by Council in writing, be powered using underground power.	As part of construction for each stage		
Earthwork				
18.	 All site and earthworks must; a) Be undertaken in accordance with Australian Standard 3798 Guidelines on Earthworks for Commercial and Residential Developments b) Be in accordance with Australian Standard 1289 Methods of Testing Soils for Engineering Purposes, and c) Comprise of clean fill and be compacted to building pad standard. A Supervision certificate by a Registered Professional Engineer of Queensland must be submitted to Council upon completion of works. 	As part of construction for each stage		





Advisory Notes

Aboriginal and Cultural Heritage

A. The Aboriginal Cultural Heritage Act 2003 and Torres Strait Islander Cultural Heritage Act 2003 requires anyone who carries out a land-use activity to exercise a duty of care. Land users must take all reasonable and practicable measures to ensure their activity does not harm Aboriginal or Torres Strait Islander cultural heritage. Prior to carrying out works, it is advised that you contact the Department of Aboriginal and Torres Strait Islander Partnerships on (07) 4799 7470 or by post at PO Box 5620 TOWNSVILLE QLD 4810. For further information on cultural heritage duty of care please visit: https://www.datsip.gld.gov.au/people-communities/aboriginal-torres-strait-islander-cultural-heritage-duty-care

Abandoned Mine Shafts

B. The City of Charters Towers is subject to a significant number of abandoned mine shafts due to the former gold rush era. It is recommended that all searches be undertaken through the Queensland State Government's Department of Natural Resources Mines and Energy (DNRME) to ensure that the development is not unduly impacted upon by these shafts. The DNRME can be contacted on 13 74 68.

Workplace Health and Safety

C. Ensure compliance with the *Work Health and Safety Act 2011*. It states that the project manager/applicant is obliged to ensure construction work is planned and managed in a way that prevents or minimises risks to the health and safety of members of the public at or near the workplace during construction work. It is the principal contractor's responsibility to ensure compliance with the *Work Health and Safety Act 2011*. It states that the principal contractor is obliged on a construction workplace to ensure that work activities at the workplace prevent or minimise risks to the health and safety of the public at or near the workplace during the work. It is the responsibility of the person in control of the workplace to ensure compliance with the *Work Health and Safety Act 2011*. It states that the person in control of the workplace is obliged to ensure there is appropriate, safe access to and from the workplace for persons other than the person's workers.

Environmental nuisance

D. Ensure compliance with the *Environmental Protection Act 1994*. It states that a person must not carry out any activity that causes, or is likely to cause, environmental harm unless the person takes all reasonable and practicable measures to prevent or minimise the harm. Environmental harm includes environmental nuisance. In this regard persons and entities, involved in the civil, earthworks and construction phases of this development, are to adhere to their "general environmental duty" to minimise the risk of causing environmental harm.

Environmental harm is defined by the Act as any adverse effect, or potential adverse effect whether temporary or permanent and of whatever magnitude, duration or frequency on an environmental value and includes environmental nuisance. Therefore, no person should cause any interference with the environment or amenity of the area because of the emission of noise, vibration, smell, fumes, smoke, vapour, steam, soot, ash, dust, waste water, waste products, grit, sediment, oil or otherwise, or cause hazards likely in the opinion of the Council to cause undue disturbance or annoyance to persons or affect property not connected with the use.

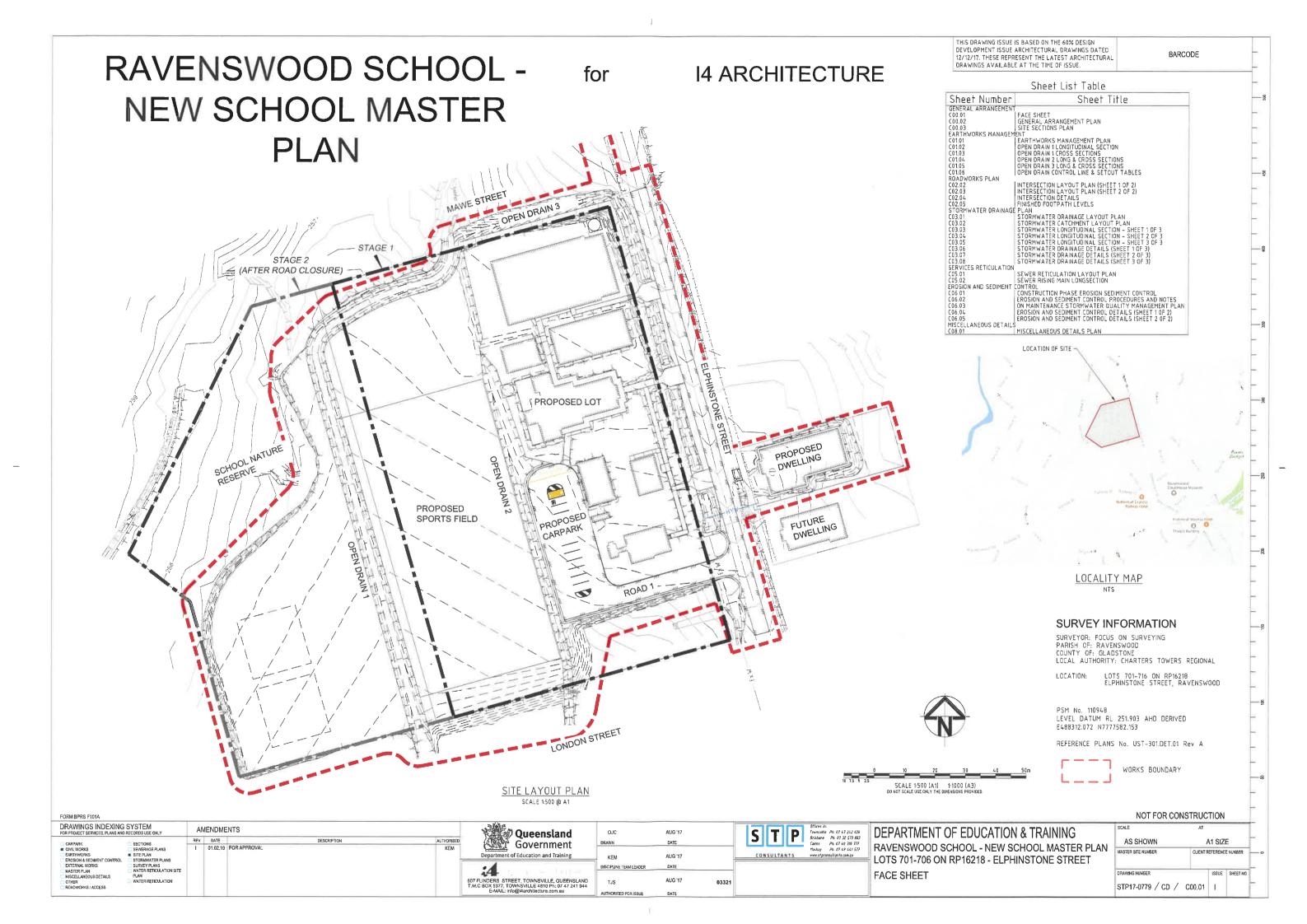
Council Forms, Policies and Drawings

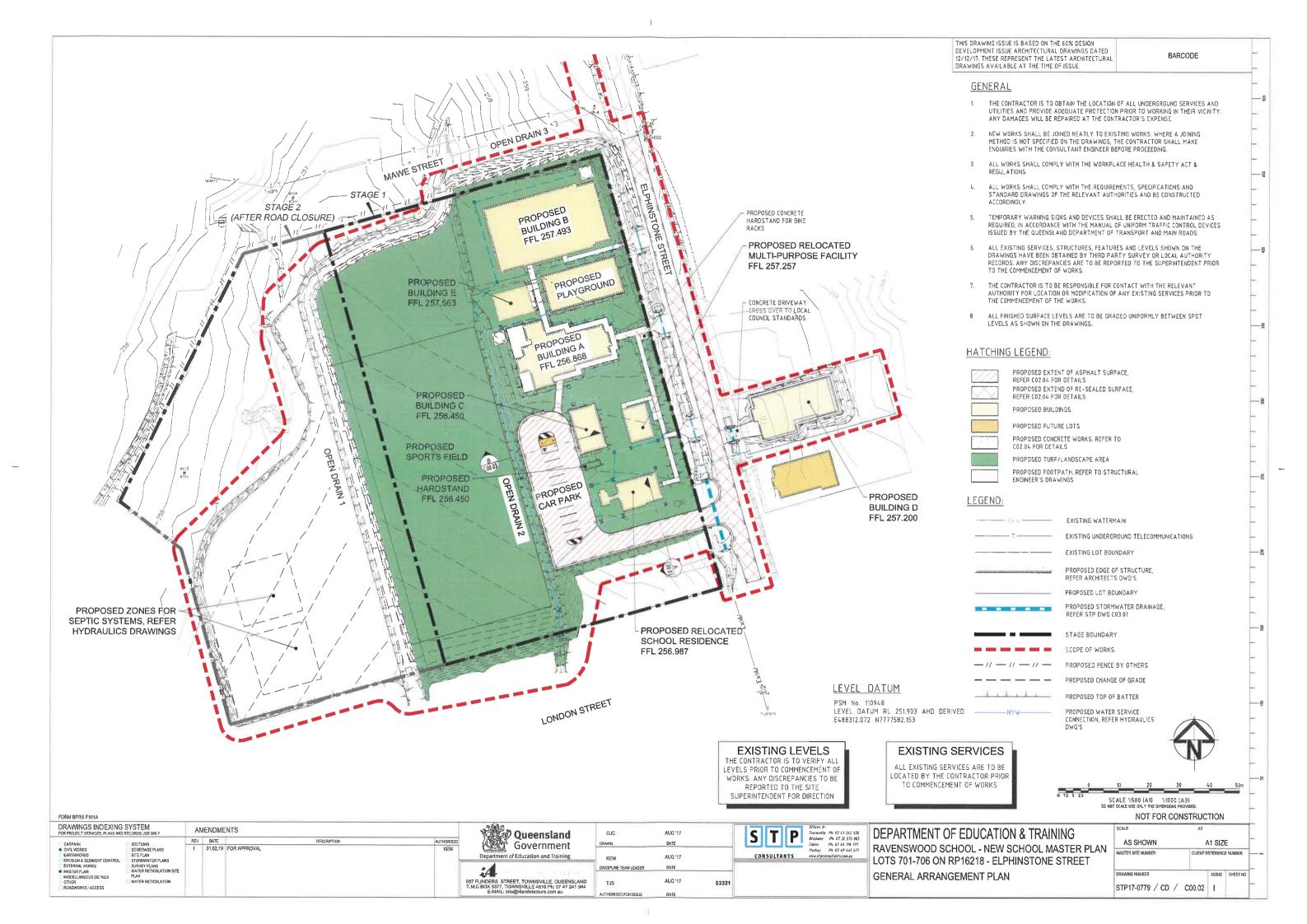
E. In achieving compliance with conditions, the below Council form will need to be completed: for this development being F0227/RI - Application to carry out works on a road or interfere with a road or its operation. In addition, Council's Standard Drawings for roads, driveways and grids can be found at www.charterstowers.qld.gov.au/drawings-specifications.

Attachment 2-Approved Plans

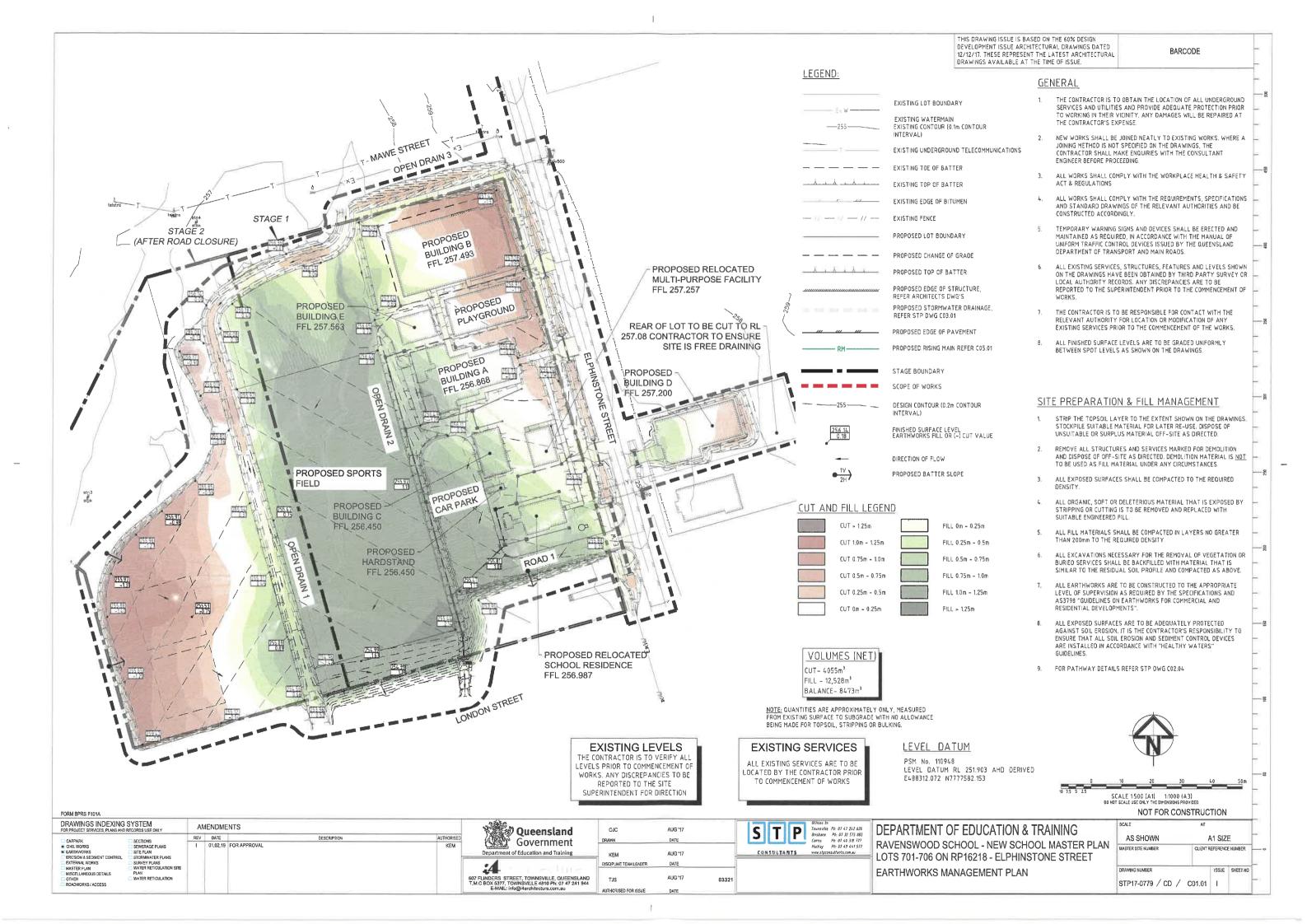








THIS DRAWING ISSUE IS BASED ON THE 60% DESIGN DEVELOPMENT ISSUE ARCHITECTURAL DRAWINGS DATED 12/12/17. THESE REPRESENT THE LATEST ARCHITECTURAL DRAWINGS AVAILABLE AT THE TIME OF ISSUE. BARCODE 3.23 OPEN DRAIN 2 PROPOSED CAR PARK CARRIAGEWAY 5.80 PARKING AISLE PARKINE AISLE CAR PARK MOUNTABLE KERB, BARRIER KERB AND CHANNEL, REFER PROPOSED BUILDING C FFL 256.450 REFER DETAIL C02.04 - DESIGN SURFACE DETAIL C02.04 2.0% 2.0% 0.5% EXISTING SURFACE PROPOSED —— STORMWATER DRAINAGE PAVEMENT, REFER DETAIL C02.04 SUBSOIL DRAINAGE, — REFER DETAIL CO2 04 DATUM RL 250.00 SECTION B - C00.02 6.00 ROAD 1 CARRIAGEWAY THROUGH THROUGH PROPOSED RELOCATED SCHOOL RESIDENCE LANE LANE BARRIER KERB AND CHANNEL, REFER DETAIL C02.04 DESIGN SURFACE FFL 256.987 0.5% 3.4% BATTER DOWN TO -EXISTING AT MAX. 1V:4H SLOPE - BARRIER KERB AND CHANNEL, REFER SUBSOIL DRAINAGE, EXISTING SURFACE REFER DETAIL C02.04 L PROPOSED STORMWATER PROPOSED STORMWATER DRAINAGE DRAINAGE PAVEMENT, REFER DETAIL C02.04 DATUM RL 250.00 SECTION A - C00.02 **EXISTING SERVICES** ALL EXISTING SERVICES ARE TO BE LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS LEVEL DATUM PM NO. 114301 LEVEL DATUM RL. 12.370 AHD DERIVED SITE COORDINATES E:472148.722 N:7867473.318 SCALE 1:100 (A1) 1:200 (A3) do not scale use only the dimensions provided FOR CONSTRUCTION DRAWINGS INDEXING SYSTEM FOR PROJECT SERVICES, PLANS AND RECORDS USE ONLY **AMENDMENTS** Queensland Government STP DEPARTMENT OF EDUCATION & TRAINING OJC AUG '17 AS SHOWN A1 SIZE CARPARK
CIVIL WORKS
EARTHWORKS
EROSION & SEDIMENT CONT
EXTERNAL WORKS
MASTER PLAN
MISCELLANEOUS DETAILS
OTHER
ROADWORKS / ACCESS SECTIONS
SEWERAGE PLANS
SITE PLAN
STORMWATER PLANS
SURVEY PLANS
WATER RETICULATION SITE
PLAN
WATER RETICULATION RAVENSWOOD SCHOOL - NEW SCHOOL MASTER PLAN MASTER SITE NUMBER AUG '17 KEM LOTS 701-706 ON RP16218 - ELPHINSTONE STREET DISCIPLINE TEAM LEADER SITE SECTIONS AUG '17 607 FLINDERS STREET, TOWNSVILLE, QUEENSLAND T.M.C BOX 5377, TOWNSVILLE 4810 Ph: 67 47 241 944 E-MA(L: info@i4architecture.com.au STP17-0779 / CD / C00.03 1 PLAN



THIS DRAWING ISSUE IS BASED ON THE 60% DESIGN DEVELOPMENT ISSUE ARCHITECTURAL DRAWINGS DATED 12/12/17. THESE REPRESENT THE LATEST ARCHITECTURAL BARCODE DRAWINGS AVAILABLE AT THE TIME OF ISSUE. SITE PREPARATION 1. FOR OVERARCHING EARTHWORKS NOTES REFER C01.01 VERT, GRADE DATA VERT. CURVE DATA 100.342 D 87.475 D 8.7 9 L 8.7 9 L 122. 2 R 131. 9 R DATUM R.L.245.000 EXISTING 256.292 256.52 256.641 256.387 253.674 253.683 253.7 253.767 253.777 255.872 256.049 256.1 256.1 SURFACE 255. 255. 256. 255. CUT/FILL DEPTH FINISHED 721 731 83 83 .085 .085 .466 .466 255.42 255.42 255.455 SURFACE 253. 253. 254. 254. 254. 254. 256. 256. 256. 256. PEGGED CHAINAGE OPEN DRAIN 1 LONGITUDINAL SECTION
HORIZONTAL SCALE: 1:500 @ A1
VERTICAL SCALE: 1:100 @ A1 **EXISTING LEVELS EXISTING SERVICES** THE CONTRACTOR IS TO VERIFY ALL LEVEL DATUM SCALE 1:100 (A1) 1:200 (A3)
DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDE ALL EXISTING SERVICES ARE TO BE LEVELS PRIOR TO COMMENCEMENT OF LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS WORKS, ANY DISCREPANCIES ARE TO PM NO. 110948 LEVEL DATUM RL. 251.864 AHD DERIVED BE REPORTED TO SITE SITE COORDINATES E:488312.071 N:7777582.170 SUPERINTENDENT FOR DIRECTION SCALE 1:500 (A1) 1:1000 (A3) DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED. FOR APPROVAL DRAWINGS INDEXING SYSTEM FOR PROJECT SERVICES, PLANS AND RECORDS USE ONLY Queensland Government **AMENDMENTS** STP Offices to:
Townsville Ph: 07 47 242 626
Brisbane Ph: 07 32 573 883
Cairos Ph: 07 40 318 777
Mackay Ph: 07 49 441 577 DEPARTMENT OF EDUCATION & TRAINING OJC AUG '17 W SECTIONS
SEWERAGE PLANS
SITE PLAN
STORMWATER PLANS
SURVEY PLANS
WATER RETICULATION SITE
PLAN
WATER RETICULATION F 01.02.19 FOR APPROVAL AS SHOWN A1 SIZE RAVENSWOOD SCHOOL - NEW SCHOOL MASTER PLAN AUG '17

607 FLINDERS STREET, TOWNSVILLE, QUEENSLAND T.M.C BOX 5377, TOWNSVILLE 4810 Ph: 07 47 241 944 E-MAIL: info@i4architecture.com.au AUTHORISED FOR ISSUE

FORM BPRS F101A

CAPPARK

CIVIL WORKS

E ARTHWORKS

E ROSIGN & SEMMENT CONTROL

EXTERNAL WORKS

MASTER PLAN

MISCELLANEOUS DETAILS

OTHER

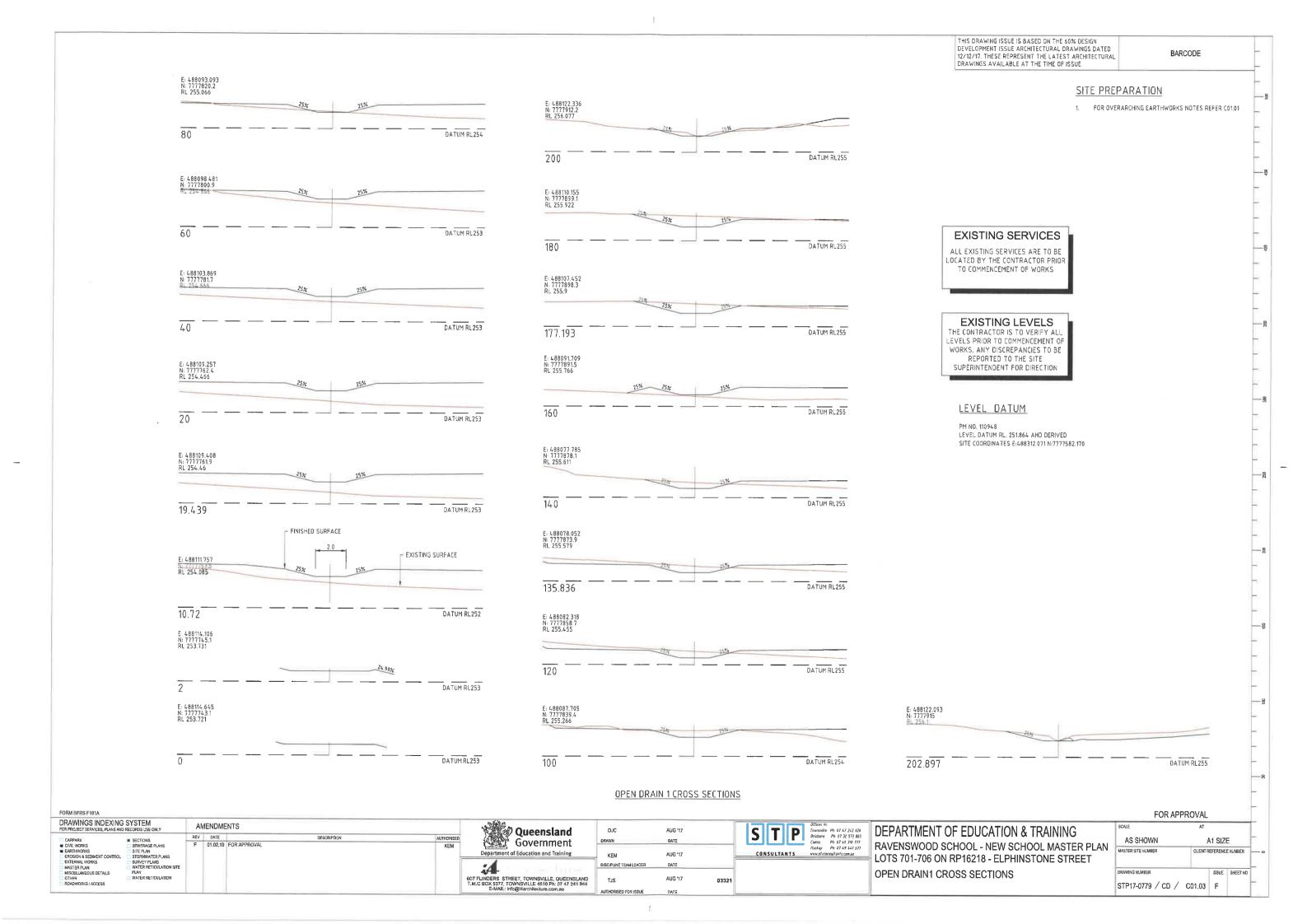
CROADWORKS / ACCESS

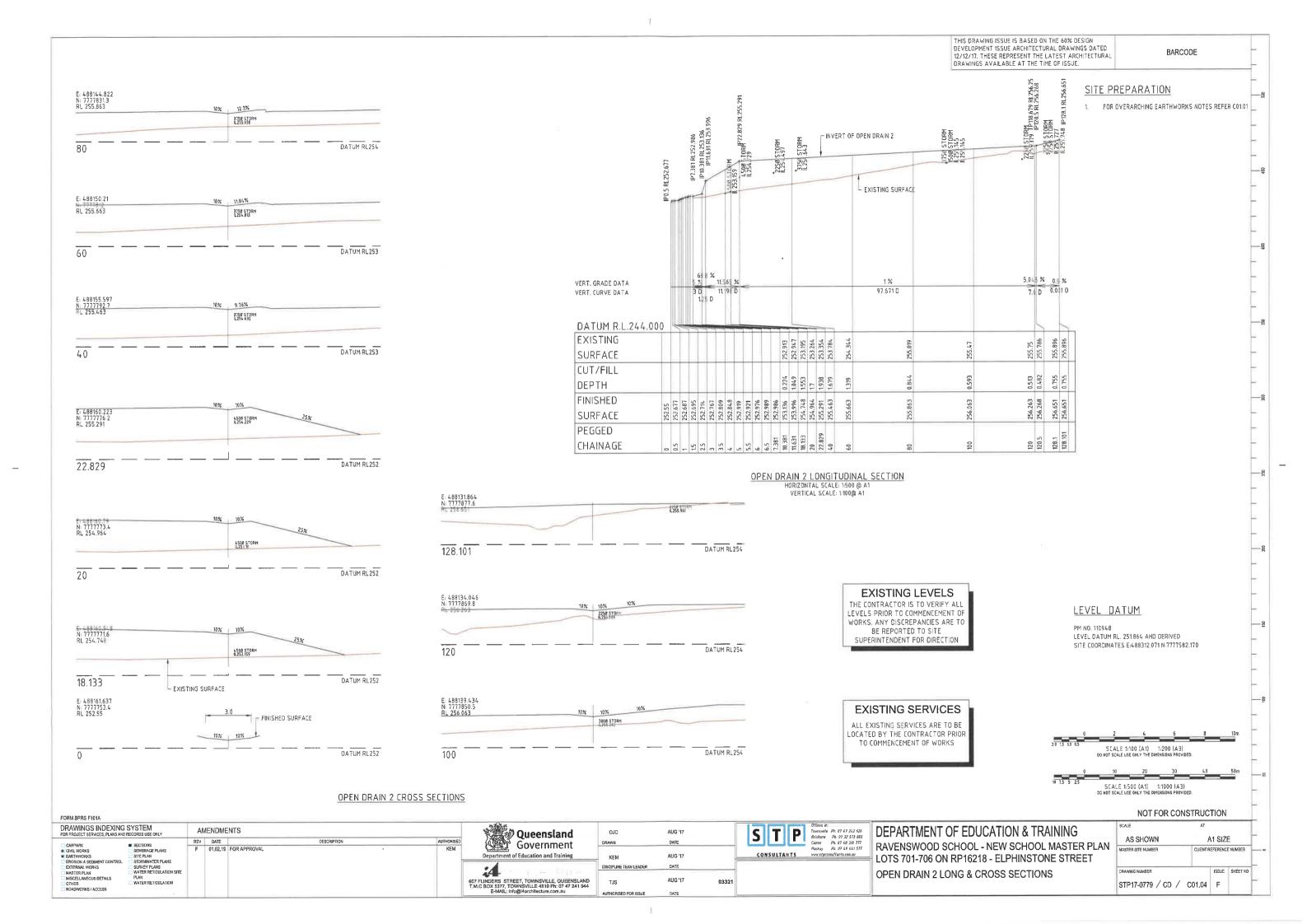
KEM AUG '17 TJS

CONSULTANTS

LOTS 701-706 ON RP16218 - ELPHINSTONE STREET OPEN DRAIN 1 LONGITUDINAL SECTION

STP17-0779 / CD / C01.02 F





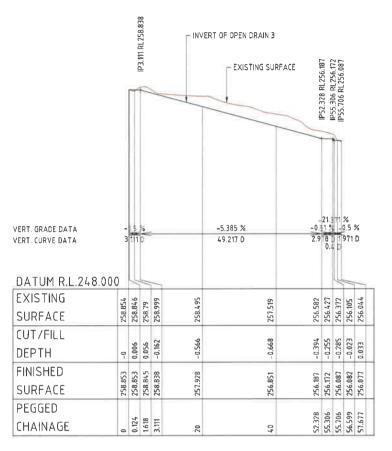
THIS DRAWING ISSUE IS BASED ON THE 60% DESIGN DEVELOPMENT ISSUE ARCHITECTURAL DRAWINGS DATED

12/12/17. THESE REPRESENT THE LATEST ARCHITECTURAL
DRAWINGS AVAILABLE AT THE TIME OF ISSUE.

BARCODE

SITE PREPARATION

1. FOR OVERARCHING EARTHWORKS NOTES REFER C01.01



OPEN DRAIN 3 LONGITUDINAL SECTION
HORIZONTAL SCALE: 1:500 @ A1
VERTICAL SCALE: 1:100 @ A1

Offices In:
Fourisville Ph: 07 47 242 626
Brisbane Ph: 07 32 573 883
Cairns Ph: 07 40 318 777
Mackay Ph: 07 49 441 577
www.stpconsultants.com.au

TP

EXISTING LEVELS

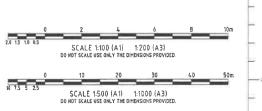
THE CONTRACTOR IS TO VERIFY ALL LEVELS PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO SITE SUPERINTENDENT FOR DIRECTION

EXISTING SERVICES

ALL EXISTING SERVICES ARE TO BE LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS

LEVEL DATUM

PM NO. 110948 LEVEL DATUM RL. 251.864 AHD DERIVED SITE COORDINATES E:488312.071 N:7777582.170



DEPARTMENT OF EDUCATION & TRAINING RAVENSWOOD SCHOOL - NEW SCHOOL MASTER PLAN LOTS 701-706 ON RP16218 - ELPHINSTONE STREET OPEN DRAIN 3 LONG & CROSS SECTIONS

NOT FOR CONSTRUCTION

AS SHOWN A1 SIZE ISSUE SHEET NO STP17-0779 / CD / C01.05 C

DRAWINGS INDEXING FOR PROJECT SERVICES, PLANS AND		A۸	MENDME	ENTS	
□ CARPARK	■ SECTIONS	REV	DATE	DESCRIPTION	AUTHORISED
CONFINION CONL WORKS EARTHWORKS EROSION & SEDIMENT CONTROL EXTERNAL WORKS MASTER PLAN MISCELLANEOUS DETAILS OTHER ROADWORKS / ACCESS	SEMERAGE PLANS SITE PLAN STORMWATER PLANS SURVEY PLANS WATER RETICULATION WATER RETICULATION	С	01.02.19	FOR APPROVAL	KEM

E: 488125.968 N: 7777915.8 RL 256 187

52.328

E: 488137.84 N: 7777919.1 RL 256.851

E: 488157.1 N: 7777924.5 RL 257.926

40

20

3.111

150Ø STOR IL256.527

FINISHED SURFACE

OPEN DRAIN 3 CROSS SECTIONS

ED	Queensland Government Department of Education and Training				
	607 FLINDERS STREET, TOWNSVILLE, QUEENSLAND				
	T.M,C BOX 5377, TOWNSVILLE 4810 Ph: 07 47 241 944				

DATUM RL255

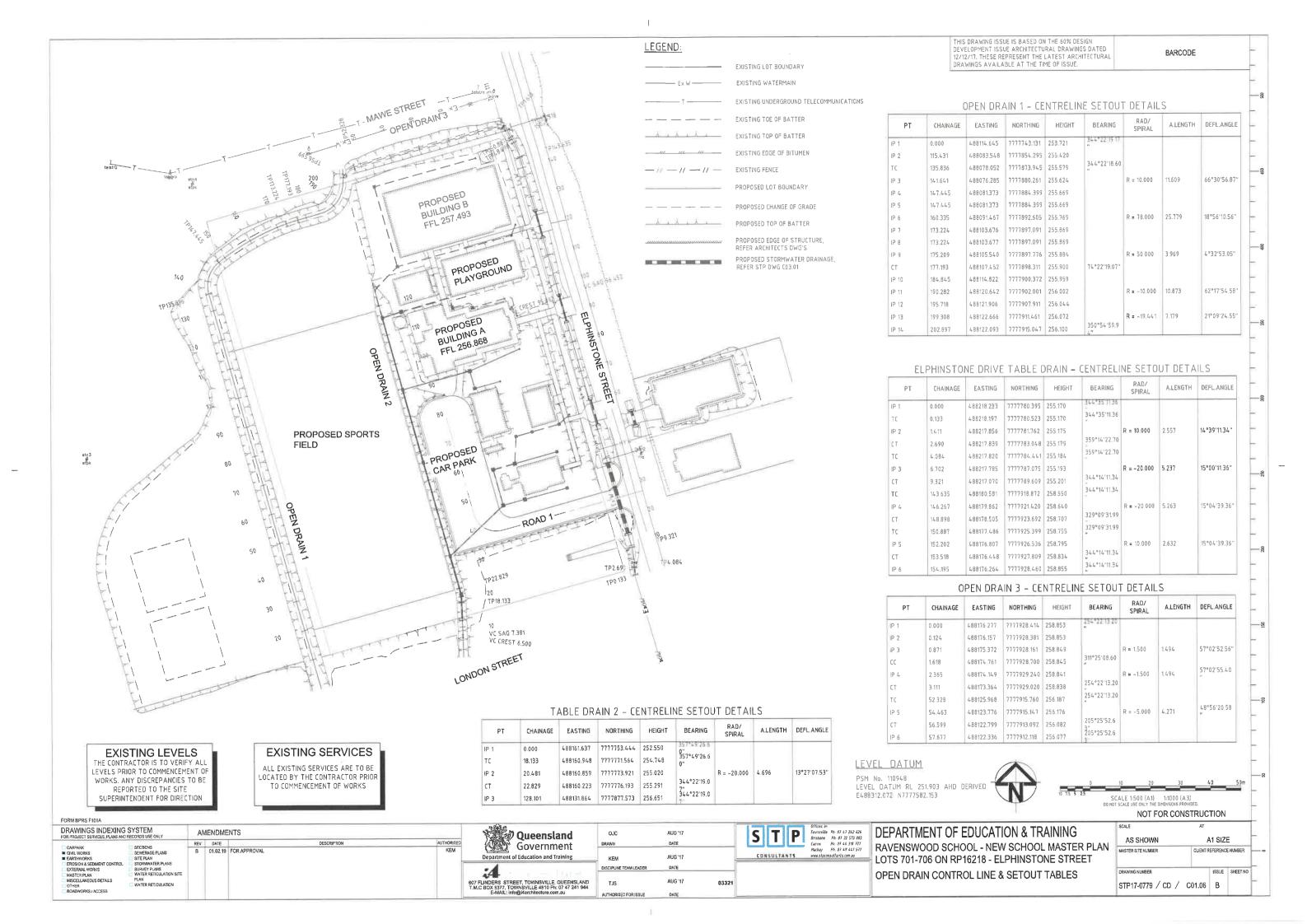
DATUM RL256

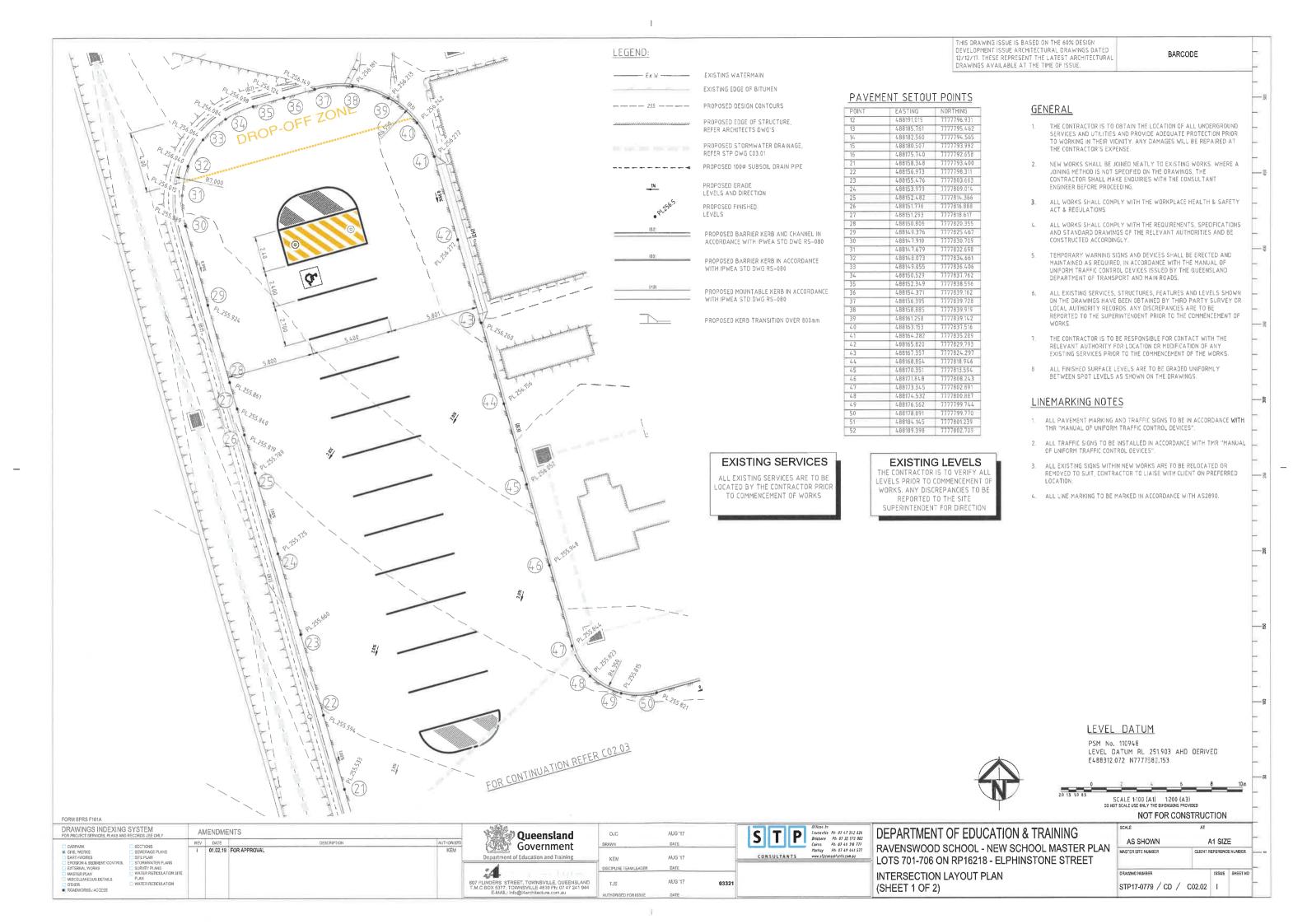
DATUM RL256

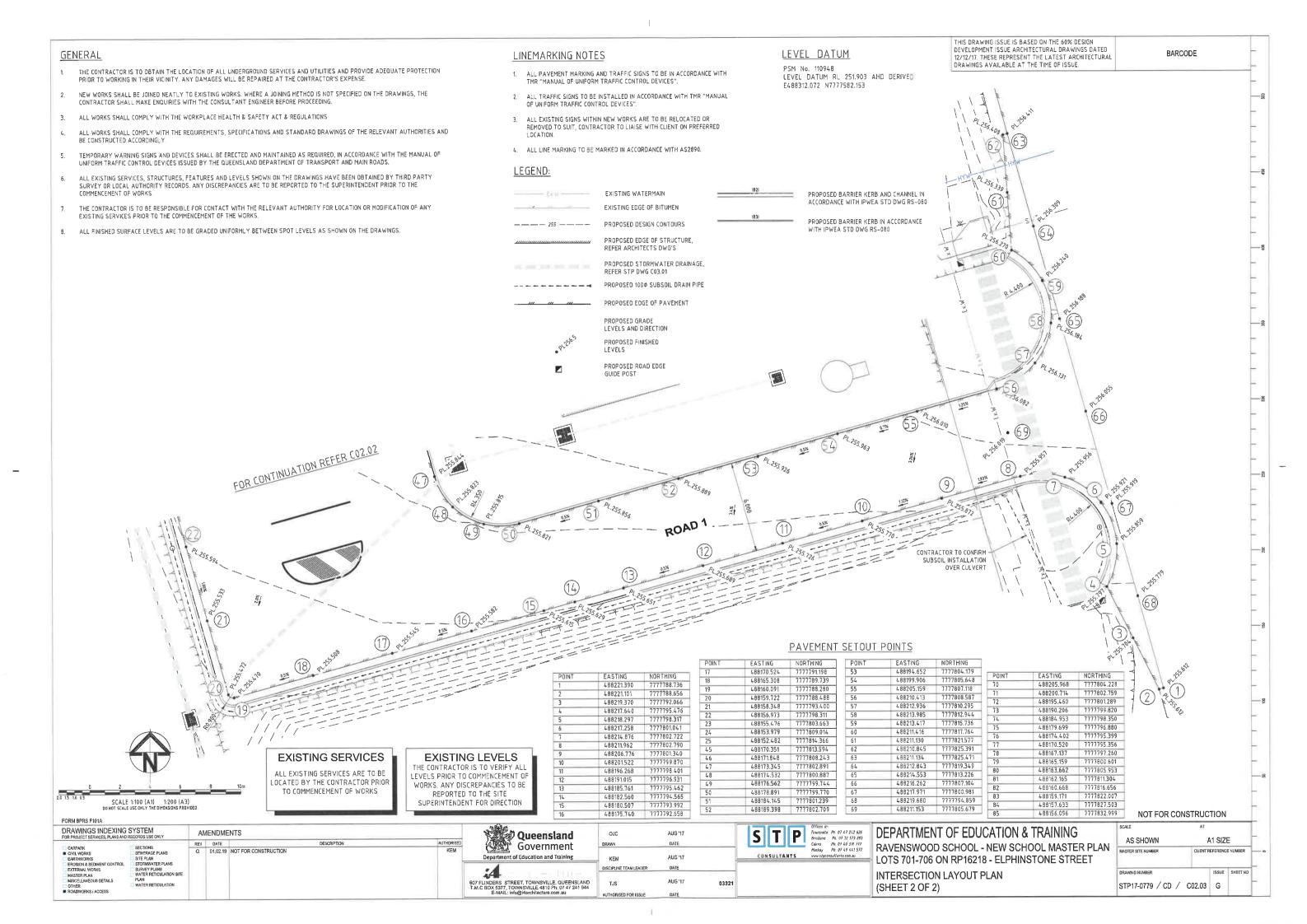
DATUM RL258

EXISTING SURFACE

	ouc	AUG '17		C
	DRAWN	DATE		3
	KEM	AUG '17		C
	DISCIPLINE TEAM LEADER	DATE		
	TJS	AUG '17	03321	
_	AUTHORISED FOR ISSUE	DATE		



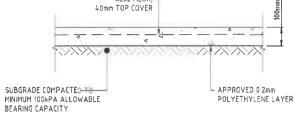




SUB GRADE

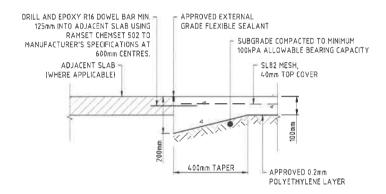
SUBGRADE TO FALL TO

SUBSOIL DRAINAGE SYSTEM

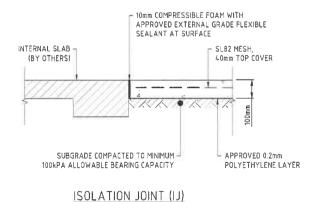


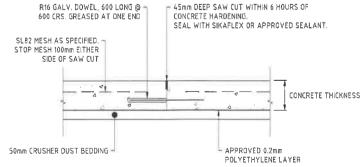
SL82 MESH

TYPICAL 100mm THICK PAVEMENT NOTE: CONCRETE GRADE N25 1:10 @ FULL SIZE A1



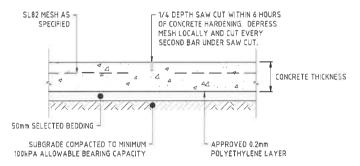
THICKENING TYPE 1 (TH1) 1:10 @ FULL SIZE A1





DOWELED KEY JOINT - DKJ 1:10 @ FULL SIZE A1





SAW CUT - S.C 1:10 @ FULL SIZE A1



ROAD PAVEMENT IN

ACCORDANCE WITH

GEOTECHNICAL ENGINEERS PAVEMENT

DESIGN

NOTE: IF IN SITU SUBERADE CBR <3 REPLACE UNSUITABLE SUBGRADE TO 300mm DEPTH WITH CBR 15 MATERIAL FINAL

PROVISIONAL FLEXIBLE PAVEMENT DESIGN NTS



30mm 10/14 2-COAT BITUMEN SEAL 125mm TYPE 2.3 SUBBASE

PROVISIONAL PAVEMENT DESIGN

FLEXIBLE PAVEMENTS

ALE EXTERNAL WORK SHALL BE CONSTRUCTED STRICTLY IN ACCORDANCE WITH THE REQUIREMENTS OF THE RELEVANT AUTHORITY
ALL NECESSARY TESTING SHALL BE CARRIED OUT AT THE CONTRACTOR'S EXPENSE WITH COPIES OF TEST CERTIFICATES SUPPLIED TO THE SUPERINTENDENT.

BARCODE

- PROVISIONAL PAVEMENT DESIGN IS BASED ON A MINIMUM SUB-GRADE CBR OF 5 UNDER SERVICE CONDITIONS. THE STATED PAVEMENT DESIGN IS SUBJECT TO REVISION ON THE BASIS OF CONFIRMATORY SOAKED CBR TESTS AT THE TIME OF BOXING.
- BASE AND SUB-BASE MATERIAL SHALL NOT BE INSTALLED UNTIL A SATISFACTORY PROOF ROLL HAS BEEN CONDUCTED ON THE SUB-GRADE.
- SEALING SHALL NOT TAKE PLACE UNTIL A SATISFACTORY PROOF ROLL AND INSPECTION HAS BEEN CARRIED OUT ON THE FINISHED SURFACE.

EXISTING LEVELS

THE CONTRACTOR IS TO VERIFY ALL LEVELS PRIOR TO COMMENCEMENT OF WORKS. ANY DISCREPANCIES TO BE REPORTED TO THE SITE SUPERINTENDENT FOR DIRECTION

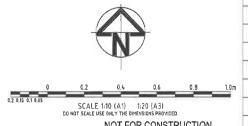
EXISTING SERVICES

ALL EXISTING SERVICES ARE TO BE LOCATED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS

LEVEL DATUM

PSM No. 110948 LEVEL DATUM RL 251.903 AHD DERIVED E488312.072 N7777582.153





FORM BPRS F101A

DRAWINGS INDEXING SYSTEM AMENDMENTS SEWERAGE PLANS
SITE PLAN
STORMWATER PLANS
SURVEY PLANS
WATER RETICULATION SITE
PLAN
WATER RETICULATION EARTH-WORKS
EROSION & SEDIMENT CONT
EXTERNAL WORKS
MASTER PLAN
MISCELLANEOUS DETAILS

1:10 @ FULL SIZE A1

Queensland Government 607 FLINDERS STREET, TOWNSVILLE, QUEENSLAND
T.M.C BOX 5377, TOWNSVILLE 4810 Ph: 07 47 241 944

APPROVED

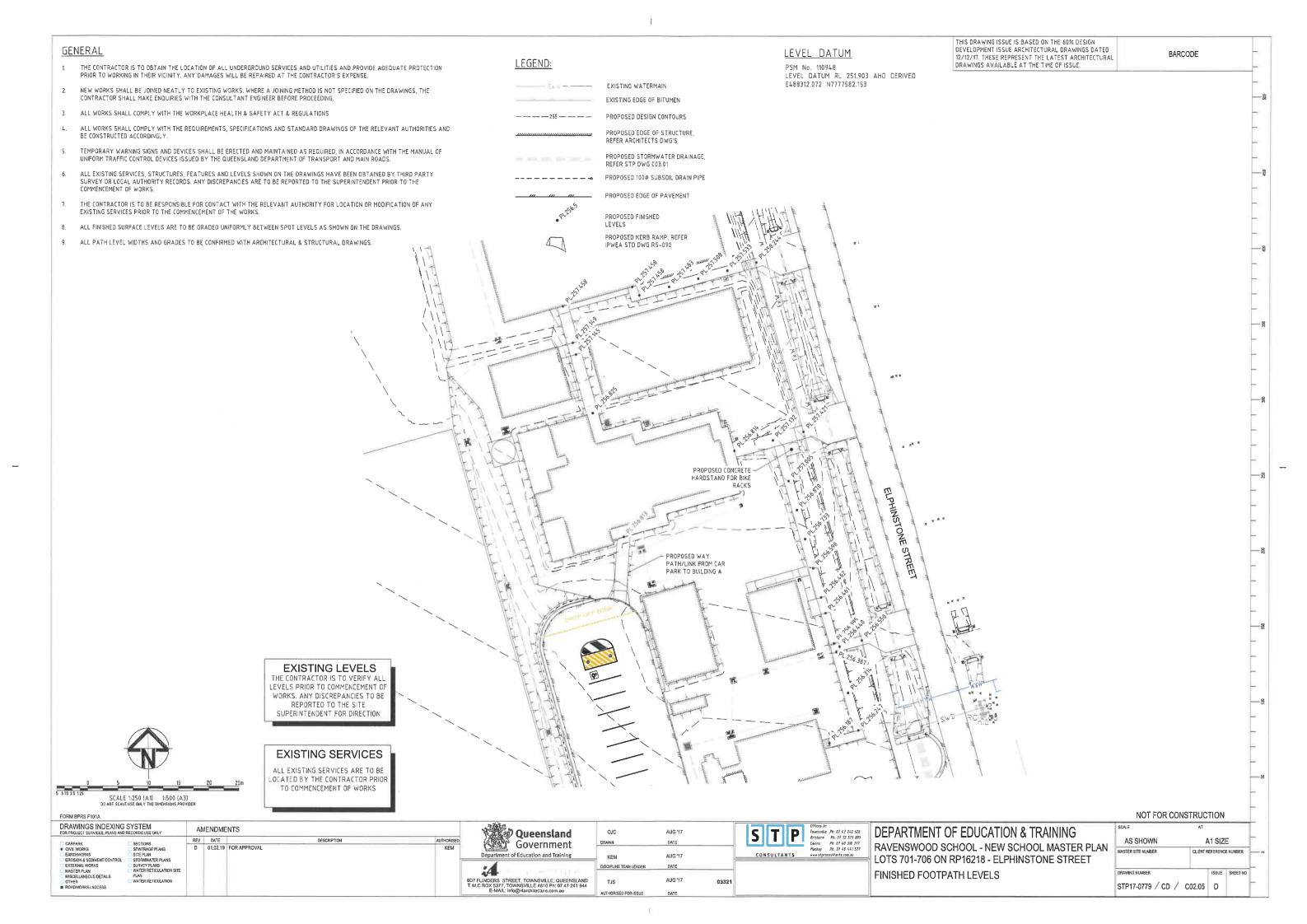
SELECT FILL

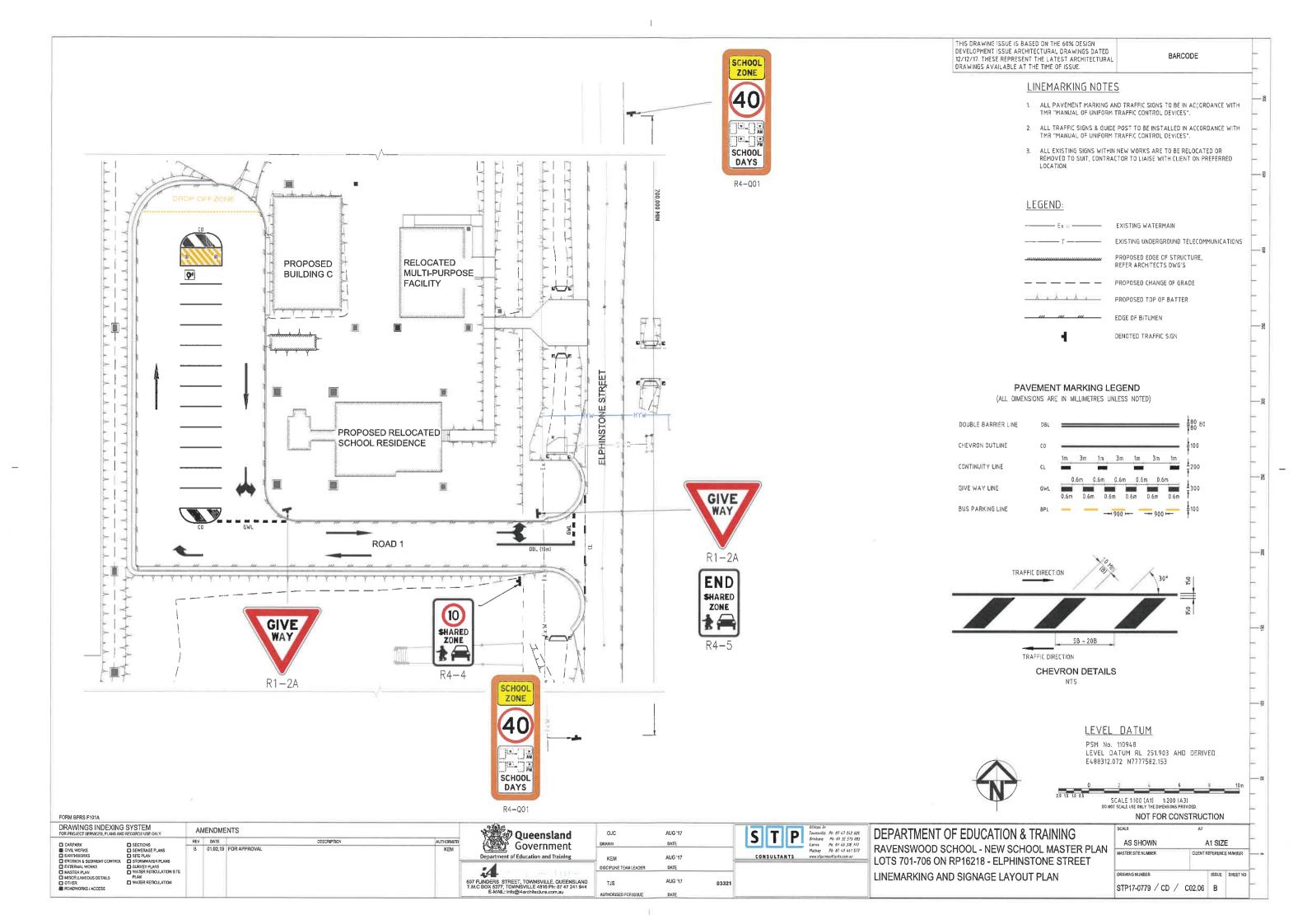
OJC AUG '17 KEM AUG '17 DISCIPLINE TEAM LEADER AUG '17

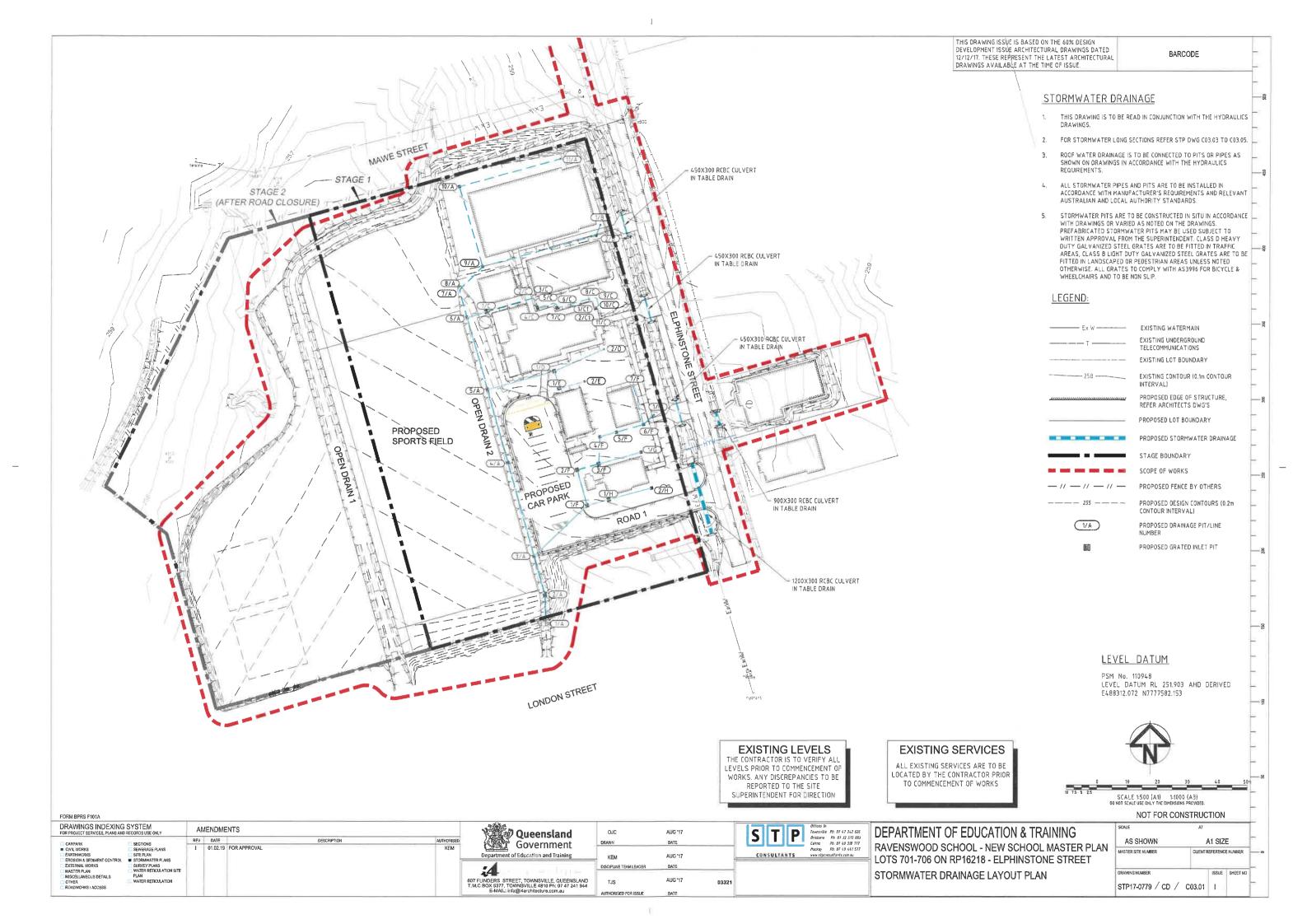


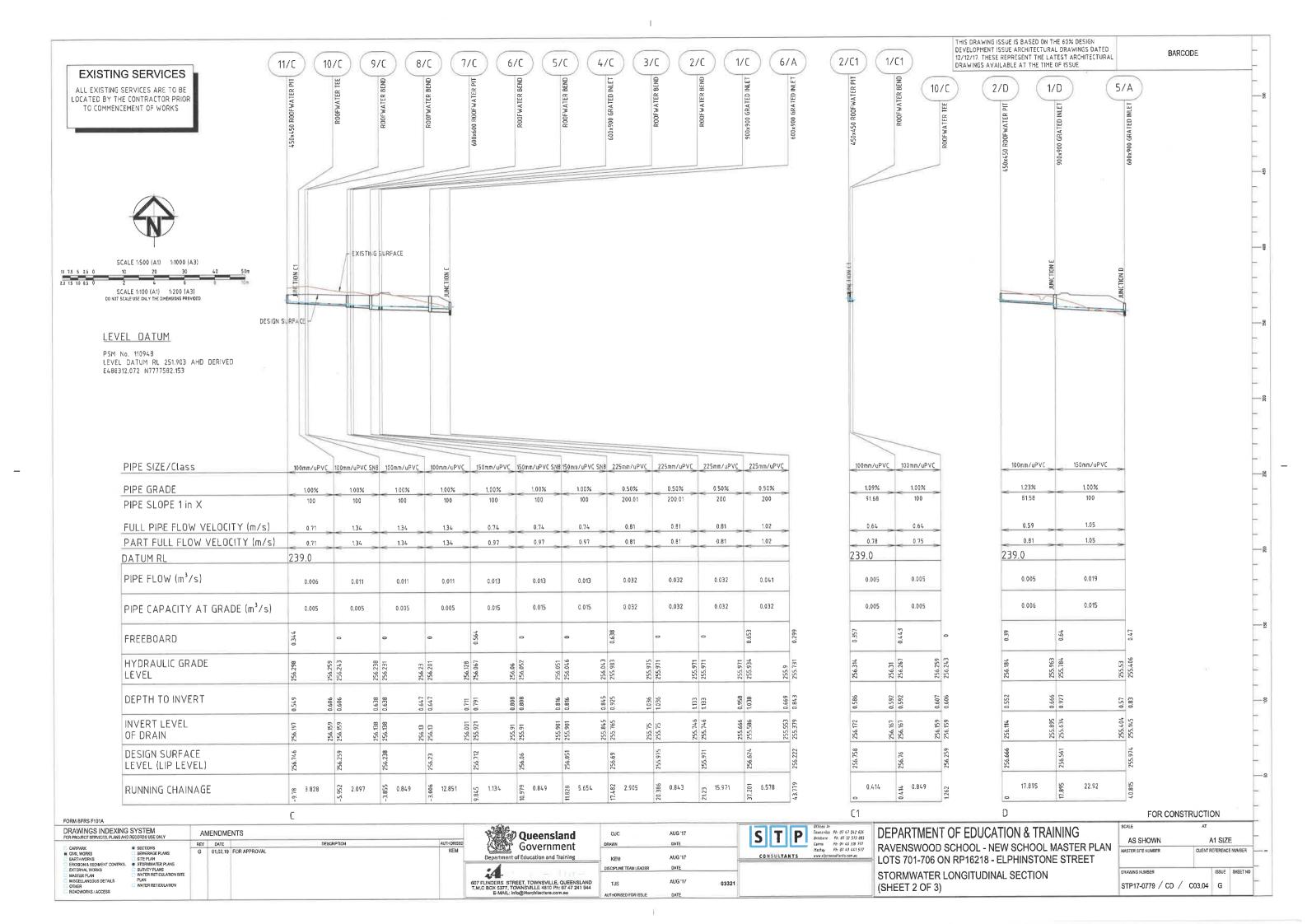
DEPARTMENT OF EDUCATION & TRAINING RAVENSWOOD SCHOOL - NEW SCHOOL MASTER PLAN LOTS 701-706 ON RP16218 - ELPHINSTONE STREET INTERSECTION DETAILS

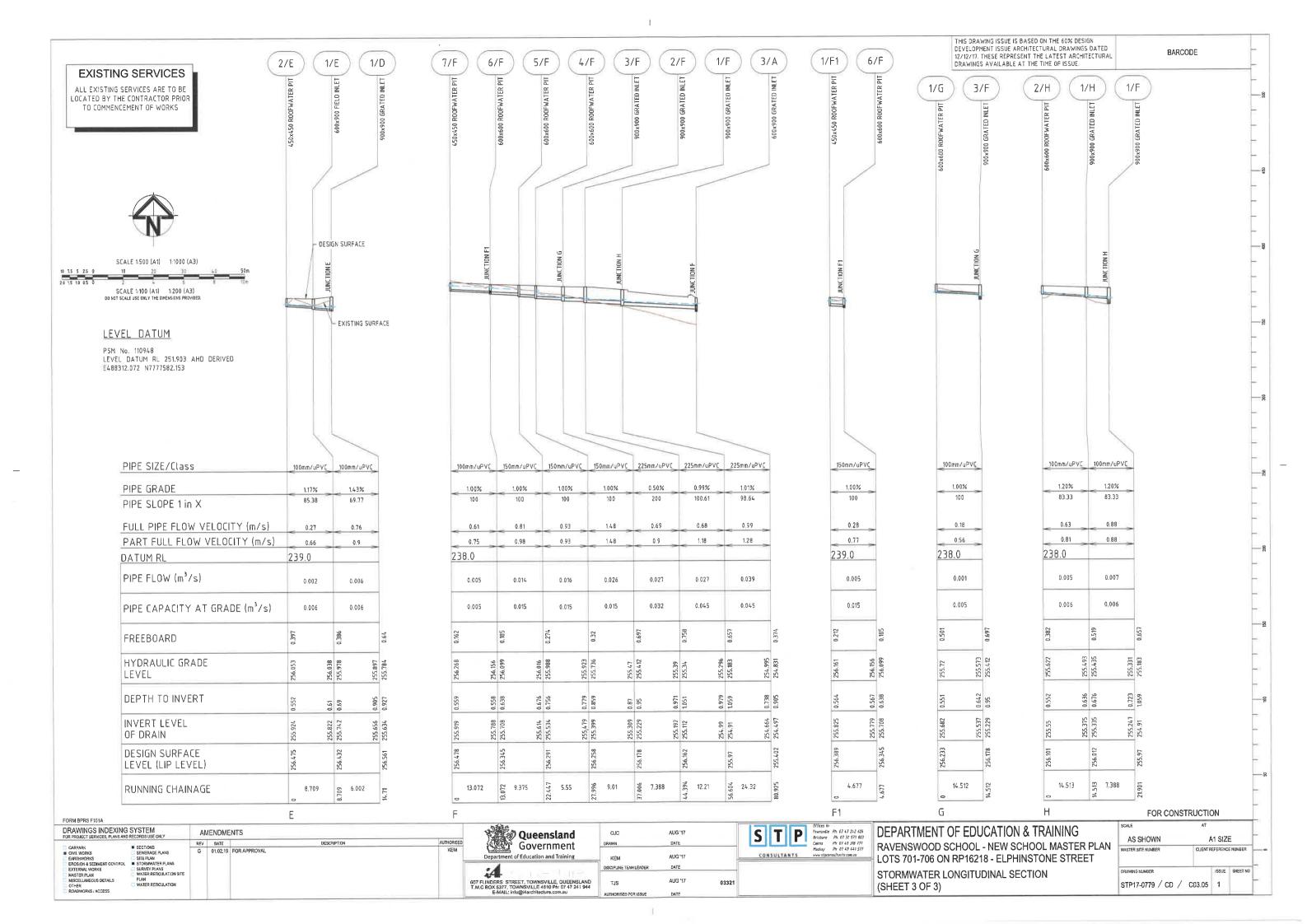
NOT FOR CONSTRUCTION AS SHOWN A1 SIZE ISSUE SHEET NO STP17-0779 / CD / C02.04 H

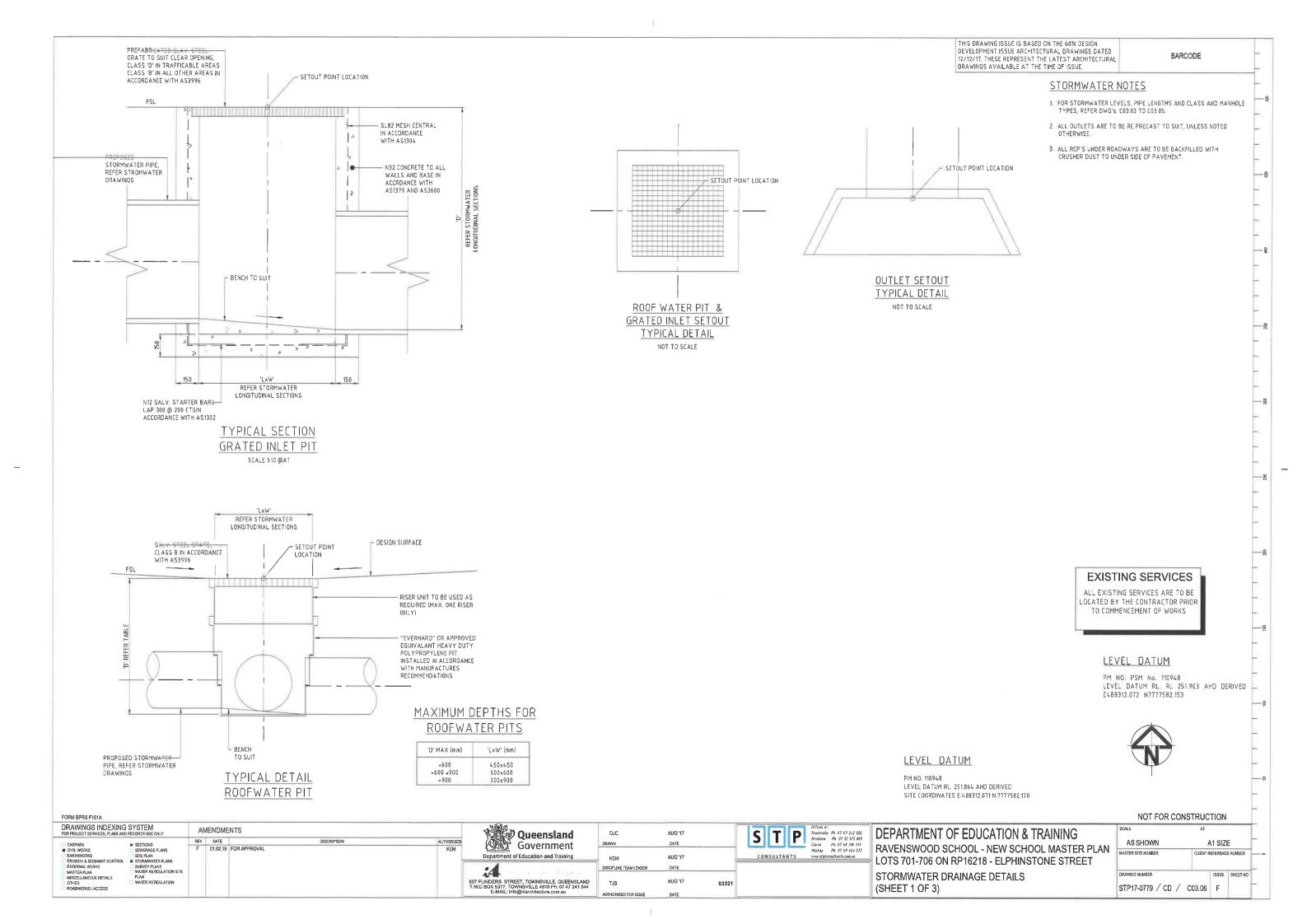


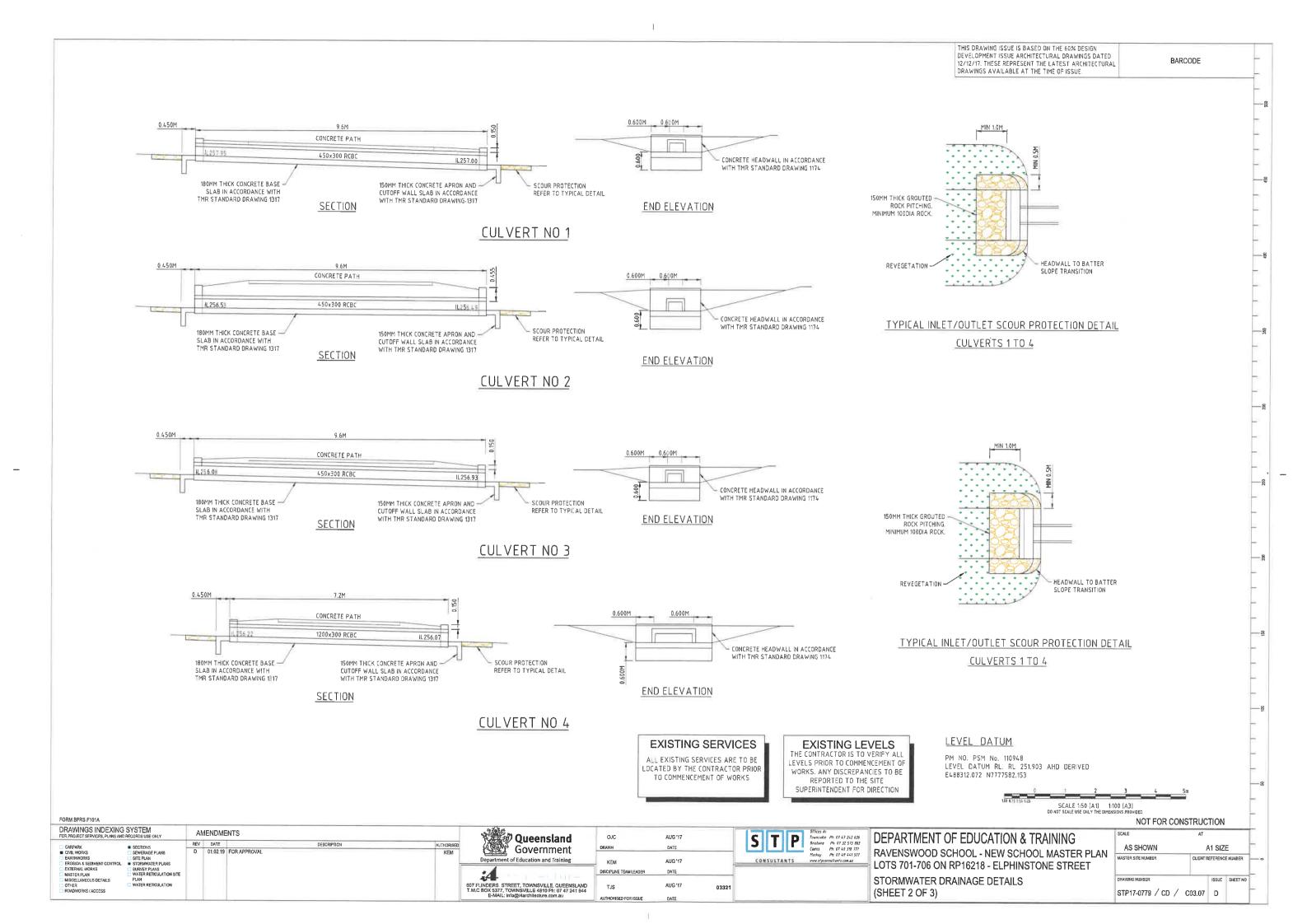


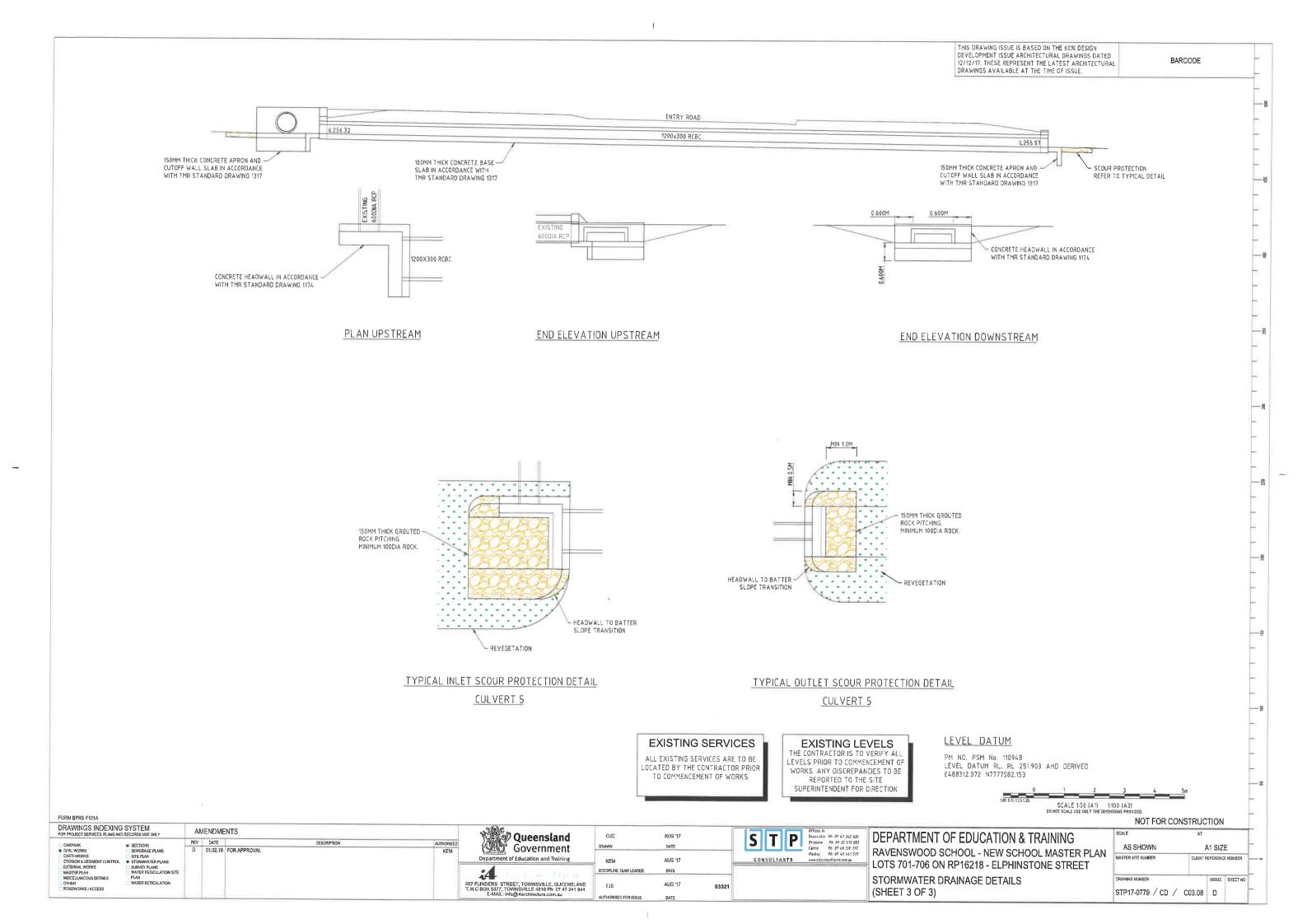


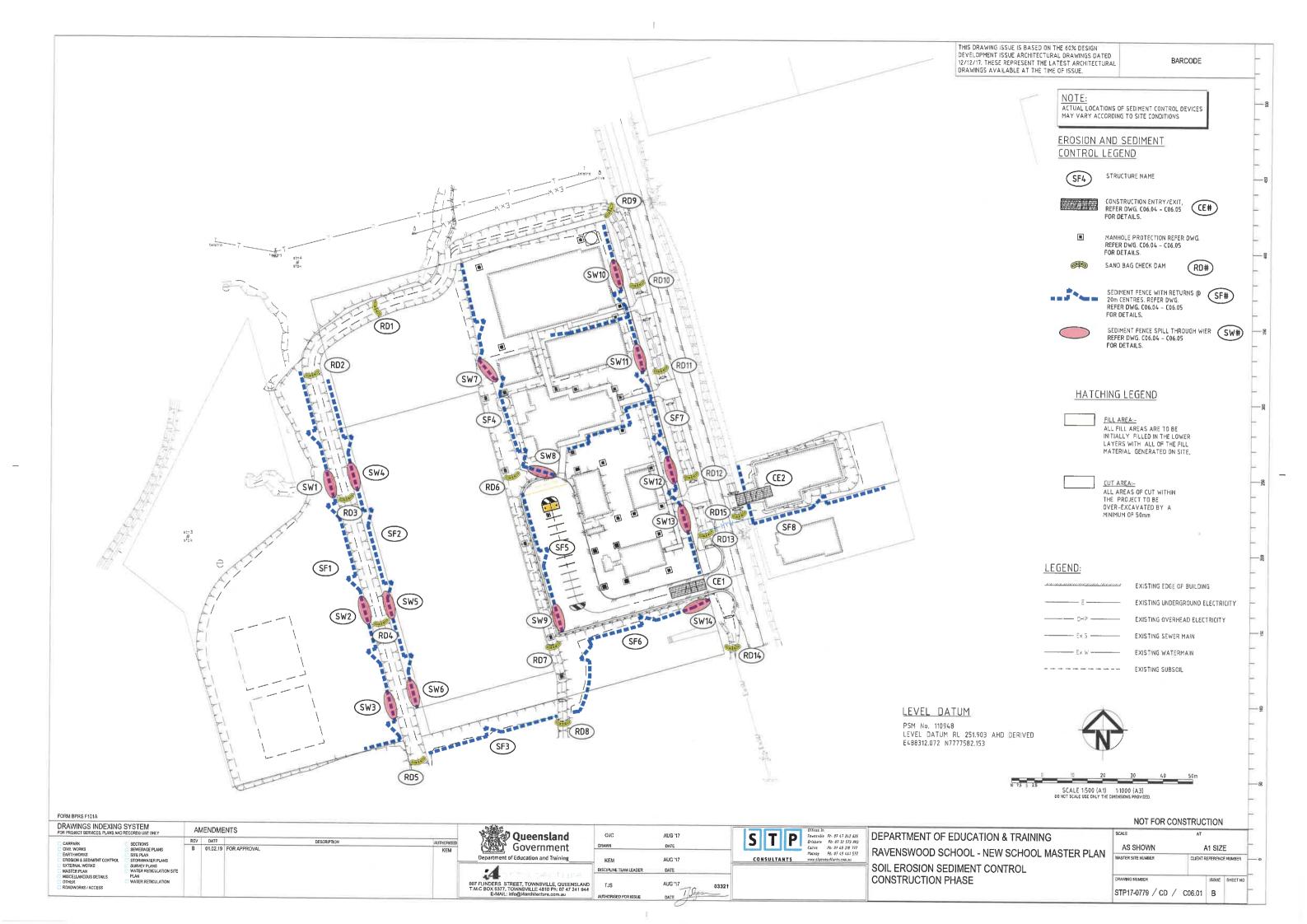












EROSION CONTROL MEASURE TIMING TABLE

STRUCTURE NAME	TYPE	PROCEDURE/TIMING
CE1	CONSTRUCTION ENTRY/EXIT	INSTALL PRIOR TO COMMENCING CLEARING REMOVE ON COMPLETION OF ALL EARTHWORKS
CE2	CONSTRUCTION ENTRY/EXIT	INSTALL PRIOR TO COMMENCING CLEARING REMOVE ON COMPLETION OF ALL EARTHWORKS
SF1	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SF2	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTEMANCE
SF3	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SF4	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SF5	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SF6	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SF7	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SF8	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW1	SEDIMENT FENCE WIER	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW2	SEDIMENT FENCE WIER	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW3	SEDIMENT FENCE WIER	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW4	SEDIMENT FENCE WIER	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW5	SEDIMENT FENCE WIER	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW6	SEDIMENT FENCE	INSTALL PRIOR TO COMMENCING CLEARING
SW7	SEDIMENT FENCE WIER	REMOVE AT ON-MAINTENANCE INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON MAINTENANCE
8W2	SEDIMENT FENCE	REMOVE AT ON-MAINTENANCE INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON ANY TOWN AND
SW9	SEDIMENT FENCE WIER	REMOVE AT ON-MAINTENANCE INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON MAINTENANCE
S W 10	SEDIMENT FENCE	REMOVE AT ON-MAINTENANCE INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON MAINTENANCE
SW11	SEDIMENT FENCE WIER	REMOVE AT ON-MAINTENANCE INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW12	SEDIMENT FENCE WIER	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW13	SEDIMENT FENCE WIER	INSTALL PRIOR TO COMMENCING CLEARING REMOVE AT ON-MAINTENANCE
SW14	SEDIMENT FENCE WIER	INSTALL PRIOR TO COMMENCING CLEARING
RD1	SAND BAG	REMOVE AT ON-MAINTENANCE INSTALL ON COMPLETION OF CUTOFF DRAIN EARTHWORKS/PROFI
RD2	SAND BAG	REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF OPEN DRAIN EARTHWORKS/PROFILING REMOVE AT ON ANY TENANCE.
RD3	SAND BAG	REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL REMOVE AT ON-MAINTENANCE.
RD4	SAND BAG	■ INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL
RD5	SAND BAG	REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL DEMOVE AT ON MAINTENANCE.
RD	SAND BAG	REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL DEMOVE AT ON MAINTENANCE.
RD7	SAND BAG	REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL DRAIN A TON MAINTENANCE.
RD8	SAND BAG	REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL PROVIDE AT THE PROPERTY OF TABLE DRAIN EARTHWORKS/PROFIL
RD9	SAND BAG	REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL
RD10	SAND BAG	REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL
RD11	SAND BAG	 REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFILE
RD12	CHECK DAM SAND BAG	 REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL.
RD13	CHECK DAM SAND BAG	 REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL
RD14	CHECK DAM SAND BAG	 REMOVE AT ON-MAINTENANCE. INSTALL ON COMPLETION OF TABLE DRAIN EARTHWORKS/PROFIL.
	CHECK DAM	REMOVE AT ON-MAINTENANCE.

AMENDMENTS

REV DATE

B 01,02,19 FOR APPROVAL

DESCRIPTION

DRAWINGS INDEXING SYSTEM FOR PROJECT SERVICES, PLANS AND RECORDS USE ONLY

SECTIONS
SEWERAGE PLANS
SITE PLAN
STORMWATER PLANS
SURVEY PLANS
WATER RETICULATION SITE
PLAN
WATER RETICULATION

CARPARK
CIVIL WORKS
CIVIL WORKS
ERRICHORKS
ERROSION & SEDIMENT CONTROL
EXTERNAL WORKS
MASTER PLAN
MISCELLANEOUS DETAILS
OTHER
ROADWORKS / ACCESS

THIS DRAWING ISSUE IS BASED ON THE 60% DESIGN
DEVELOPMENT ISSUE ARCHITECTURAL DRAWINGS DATED
12/12/17. THESE REPRESENT THE LATEST ARCHITECTURAL
DRAWINGS AVAILABLE AT THE TIME OF ISSUE.

BARCODE

50% DETAILED DESIGN

DETAILS SHOWN ON THIS
DRAWING ARE FOR
INFORMATION PURPOSES ONLY
AND MAY CHANGE FURTHER
INTO DESIGN DEVELOPMENT.

WATER QUALITY MONITORING TABLE

WATER QUALITY TESTS TO BE CARRIED OUT IN SEDIMENT BASINS

SEDIMENT AND SLUDGE TRAPPED IN BASINS INSPECTED

NO OCCURRENCE OF GULLY EROSION OR EXCESSIVE
SEDIMENT DEPOSITS

NO RELEASE OF CONSTRUCTION MATERIAL AND SILT TO
THE MAIN WATERWAY
INSPECTION OF BASINS AND SEDIMENT FENCES

WEEKLY
AFTER HEAVY
RAIN EVENTS

	SEQUENCE OF AC	TIONS TO BE UNDERTAKEN BY CONTRACTOR
1.	SITE POSSESSION	- ERECTION OF BARRIER FENCING TO BUFFER AREAS AND DRAINAGE RESERVES AS DIRECTED BY SUPERINTENDENT INSTALLATION OF CONSTRUCTION EXIT CONSTRUCT TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SUCH AS SILT FENCING AND DIVERSION BANKS.
2.	CONSTRUCTION	TOPSOIL TO BE STRIPPED AND STOCKPILED IN LOCATIONS AGREED WITH THE SUPERINTENDENT. A SEDIMENT FENCE IS TO BE CONSTRUCTED ON THE DOWNHILL SIDE OF THE STOCKPILE TO TRAP SEDIMENT. A DIVERSION DRAIN IS TO BE INSTALLED UPSTREAM OF THE STOCKPILE. SEDIMENT CONTROL DEVICES REQUIRED TO BE REMOVED TO ALLOW CONSTRUCTION ACCESS ARE TO BE REINSTATED AT THE COMPLETION OF EACH WORKDAY, MOVEMENT OF CONSTRUCTION EQUIPMENT SHALL BE LIMITED TO THE AREA OF WORK AND EXISTING ROADS. DISTURBED AREAS ARE TO BE GRASSED FOLLOWING FINAL TRIMMING IN ACCORDANCE WITH DRAWING. AREAS ARE TO BE DISTURBED AND RESTORED PROGRESSIVELY. TURE STRIPS (1000MM WIDEI SHALL BE LAID TO THE BASE OF ALL DOWNSTREAM EARTHWORKS BATTERS STEEPER THAN 1 IN 4. BATTERS SHALL BE TOPSOILED AND GRASS SECOED IMMEDIATELY UPON COMPLETION OF EARTHWORKS. MULCH PLES ARE TO BE SERSPREAD ONTO LANDSCAPED AREAS. KERB SEDIMENT TRAPS ARE TO BE PROVIDED AT EACH DRAINAGE PIT ADJACENT DISTURBED AREAS.
3.	MAINTENANCE	- REGULARLY CHECK CAPACITY OF EROSION CONTROL DEVICES ON A WEEKLY BASIS OR AFTER SIGNIFICANT RAIN EYENT.
GEN	ERAL	- PLANS TO BE READ IN CONJUCTION WITH STORMWATER QUALITY MANAGEMENT PLAN FOR THE SITE THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE OF EROSION AND SEDMENT CONTROL DEVICES PROM THE POSSESSION OF THE SITE UNTIL THE SITE IS ACCEPTED BY THE LOCAL AUTHORITY "OFF MAINTENANCE"OR INTIL STABILISATION HAS DECURRED TO THE SATISFACTION OF THE SUPERINTENDENT ADDITIONAL CONTROL DEVICES MAY BE REQUIRED BY THE SUPERINTENDENT ALTERNATIVE DESIGNS ARE TO BE APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION.

DEVICE	CONSTRUCTION REQUIREMENTS	MAINTENANCE REQUIREMENTS
CONSTRUCTION EXITS USED TO PREVENT THE TRACKING OF DEBRIS FROM TYRES OF VEHICLES ONTO PUBLIC ROAD.	REFER TO DETAIL ON THIS PLAN - SURFACE WATER FLOWING TO THE CONSTRUCTION EXIT SEDIMENT TRAP MUST BE PIPED UNDER THE TRAP OR A PERIMETER BANK SHOULD BE CONSTRUCTED TO DIRECT SURFACE FLOW AWAY FROM THE TRAP WASH-OFF TO BE DIRECTED TO A SEDIMENT TRAP OR BUFFER ZONE ONLY PROVIDE ONE CONSTRUCTION EXIT FOR THE SITE UNLESS SITE ACCESS OR TOPOGRAPHY REQUIRE MORE ENSURE THAT CONTAMINATED VEHICLES CANNOT BYPASS IT WHEN EXITING THE SITE.	REMOVAL OF SEDIMENT AND/OR ADDING EXTRA AGGREGATE. REMOVE SEDIMENT TRANSPORTED ONTO ROADWAYS. AND APPLY CORRECTIVE MEASURES TO ENSURE NO RE-OCCURENCE. EXTEND THE LENGTH OF THE GRAVEL PAD IF EXCESSIVE SEDIMENT IS STILL BEING TRANSPORTED OFF THE SITE.
ROCK CHECK DAMS USED TO INTERCEPT CONCETRATED FLOW.	REFER TO DETAIL ON THIS PLAN PROVIDE DOWNSTREAM OF ALL OUTLETS AND AT 20M MAX. ALONG OFEN CHANNELS AND AROUNF FIELD INLETS. SHOULD BE EMBEDDED AT LEAST 200MM INTO THE SOIL TO PREVENT WATER TUNNELING BENEATH THEM. ACCESS WILL BE REQUIRED FOR MAINTENANCE.	EXCESSIVE SEDIMENT SHOULD BE REMOVED FROM UPSTREAM OF THE DAM. THE UPSTREAM GRAVEL FILTER LAYER SHOULD BE REEST ABLISHED WHEN SEDIMENT BEGINS TO FLOW THROUGH THE STRUCTURE OR WHEN PERMEABILITY IS EXCESSIVELY REDUCED.
SEDIMENT FENCES USED TO TEMPORARILY REDUCE THE YELOGY OF CONTAMINATED SHEET FLOW AND TO INDUCE GRAVITATIONAL SETTLEMENT OF THE ENTRAINED SEDIMENT.	- REFER TO DETAIL ON THIS PLAN - ALL SEDIMENT FENCES TO BE INSTALLED PARALLEL TO CONTOURS REGULAR TURN-BACKS AND A FIRM WIRE MESH BACKING ARE REQUIRED TO PREVENT THE FURTHER CONCENTRATION OF FLOW THE FENCE SHOULD BE SEGMENTED INTO A SERIES OF L SHAPED PENCES TO AVOID THE CONCENTRATION OF FLOW ALONG THE FENCE.	- REGULAR INSPECTIONS AND MAINTENANCE ARE REQUIRED TO REPAIR DAMAGE CAUSED BY ON-SITE VEHICLES OR THE MOVEMENT OF STOCKPILE MATERIAL INSPECT AFTER EACH STORM EVENT THAT RESULTS IN RUN-OFF REMOVE EXCESSIVE SEDIMENT DEPOSITS INVESTIGATE THE SOURCE OF EXCESSIVE SEDIMENT. AND APPLY REMEDIAL ACTION IMMEDIATELY IF THE FENCE IS REGULARLY DAMAGED, INSTALL A SECOND FENCE AT LEAST I METRE DOWNSLOPE OF THE EXISTING FENCE.
DIVERSION DRAIN/PERIMETER BANKS USED TO DIVERT FLOW AROUND DISTURBED AREAS OR USED WITHIN DISTURBED AREAS TO DIRECT CONTAMINATED FLOW TO SEDIMENT TRAPS.	- REFER TO DETAIL ON THIS PLAN - CHANNELS MUST HAVE A STABLE OUTLET DRAINS AND BAINKS SHOULD BE SEEDED AND MULCHED IF THEIR WORKING LIFE IS EXPECTED TO EXCEED 30 DAYS.	REGULARLY INSPECT BANKS AND REPAIR ANY SLUMPS, WHEEL TRACK DAMAGE OR LOSS OF FREEBOARD. SEDIMENT SHOULD BE REMOVED TO A YOLD PONDING.

NOT FOR CONSTRUCTION

1	Queensland
	Government Government
0	epartment of Education and Training
	Assistant
607 F	LINDERS STREET, TOWNSVILLE, QUEENSLAND BOX 5377, TOWNSVILLE 4810 Ph: 07 47 241 944 E-MAIL: info@i4architecture.com.au

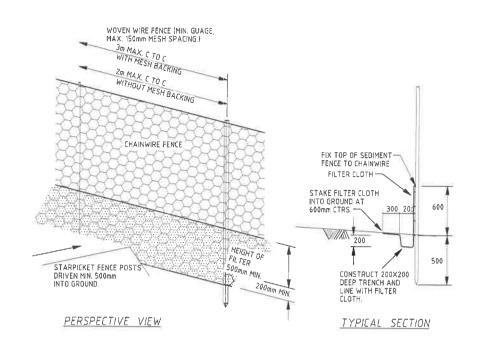
	OJC	AUG '17	
	DRAWN	DATE	
	KEM	AUG '17	
	DISCIPLINE TEAM LEADER	DATE	
ь	TJS	AUG '17	

	S	T	P	Brisbane Cairns Mackay	Ph. 07 47 242 6 Ph. 07 32 573 1 Ph. 07 40 318 7 Ph. 07 49 441 5 Insultants.com.au
03321					

DEPARTMENT OF EDUCATION & TRAINING
RAVENSWOOD SCHOOL - NEW SCHOOL MASTER PLAN
SOIL EROSION SEDIMENT CONTROL
PRECEDURE & NOTES

_			AT			
			A1 SIZE CLIENT REFERENCE NUMBER			
	DRAWING NUMBER	_		ISSUE	SHEET NO	
	STP17-0779 / CD /	/ co	6.02	В		





SEDIMENT FENCE DETAIL NOT TO SCALE

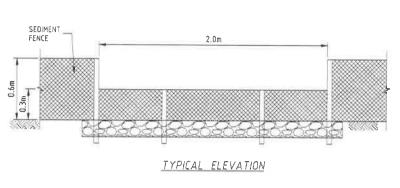
SEDIMENT FENCE NOTES

WOVEN WIRE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.

FILTER CLOTH TO BE FASTENED SECURLEY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 600MM AT TOP OF MID SECTION.

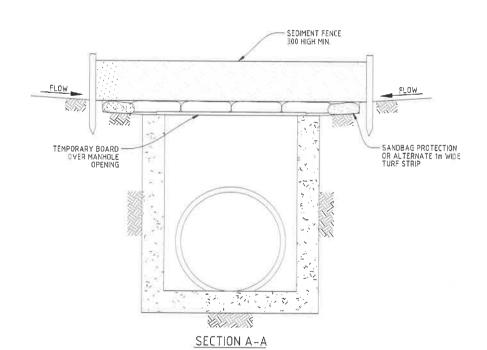
WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY 150MM AND FOLDED.

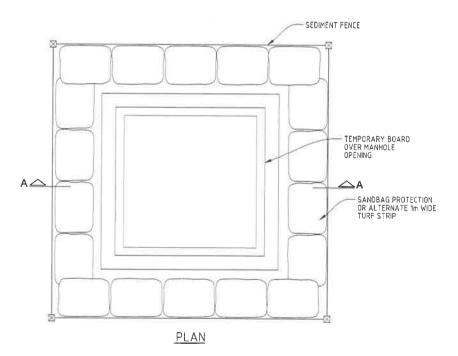
MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.



SPILL THROUGH WEIR

SEDIMENT FENCE DETAILS





MANHOLE PROTECTION DETAILS

TO BE INSTALLED IMMEDIATELY AFTER COMPLETION OF MANHOLE

FORM BPRS F101A

DRAWINGS INDEXING SYSTEM
FOR PROJECT SERVICES, PLANS AND RECORDS USE ONLY

CARPARK

GESCENS
GIVEN

USED M	Queensland Government Department of Education and Training		
	607 FLINDERS STREET, TOWNSVILLE, QUEENSLAND T.M.C BOX 5377, TOWNSVILLE 4810 Ph; 07 47 241 944 E-MAIL: Info@Waarchitecture,com.au		

	OJC	AUG '17	
	DRAWN	DATE	
	KEM	AUG '17	
	DISCIPLINE TEAM LEADER	DATE	
0	TJS	AUG '17 03321	
_	AUTHORISED FOR ISSUE	DATE	



DUMPED ROCK TO WEIR

PLAN

DEPARTMENT OF EDUCATION & TRAINING
RAVENSWOOD SCHOOL - NEW SCHOOL MASTER PLAN
SOIL EROSION SEDIMENT CONTROL
DETAILS (SHEET 1 OF 2)

	NOT FOR CON		TION		
	AS SHOWN	AT	A1 SIZ	E	_
١	MASTER SITE NUMBER	CLIENT REFERENCE NUMBER		0	
	DRAWING NUMBER		ISSUE	SHEET NO	-
	STP17-0779 / CD /	C06.04	В		7

POINT A

2.00
SEDIMENT FENCE RETURN

REQUIRED AT MAXIMUM 20m INTERVALS
NOT TO SCALE

BARCODE

THIS DRAWING ISSUE IS BASED ON THE 60% DESIGN DEVELOPMENT ISSUE ARCHITECTURAL DRAWINGS DATED 12/12/17. THESE REPRESENT THE LATEST ARCHITECTURAL

THIS DRAWING ISSUE IS BASED ON THE 60% DESIGN DEVELOPMENT ISSUE ARCHITECTURAL DRAWINGS DATED 12/12/17. THESE REPRESENT THE LATEST ARCHITECTURAL DRAWINGS AVAILABLE AT THE TIME OF ISSUE. BARCODE CONSTRUCTION SITE RUNOFF DIVERSION BUND INCORPORTATED INTO THE PAD WHEN THE ENTRY/EXIT PAD IS LOCATED DOWN-SLOPE OF THE SOIL DISTURBANCE RUNOFF FROM PAD -DIRECTED TO SEDIMENT TRAP GEOTEXTILE FILTER CLOTH = (AS DIRECTED OR WHEN WORKING IN CLAYEY SOILS) NATURAL GROUND 40-75mm CRUSHED FILTER FABRIC ELEVATION ROADWAY DESIGN SETTLED CONSTRUCTION ENTRY/EXIT DETAIL OVERFILL 150MM FOR SETTLEMENT NOT TO SCALE BARBAR - EMERGENCY BY-PASS 150MM BELOW SETTLED TOP OF DAM FLOW NATURAL GROUND 1 IN 1 MAX. MAX. FILTER FABRIC FLOW SECTION A-A __FLOW **ROCK FILTER DAM DETAILS** TEMPORARY DRAIN DETAIL SCALE 1:500 (A1) 1:1000 (A3) DO NOT SCALE USE ONLY THE DIMENSIONS PROVIDED NOT FOR CONSTRUCTION Offices for:
TOWNSHIP Ph. 07 47 242 626
Sindappe Ph. 07 47 242 626
Sindappe Ph. 07 47 242 626
Carret Ph. 07 49 18 717
Takeky Ph. 07 48 441 517
WYMST processil and a consequence of the DRAWINGS INDEXING SYSTEM FOR PROJECT SERVICES, PLANS AND RECORDS USE OF Queensland Government AMENDMENTS DEPARTMENT OF EDUCATION & TRAINING OJC AUG '17 AS SHOWN A1 SIZE B 01.02.19 FOR APPROVAL RAVENSWOOD SCHOOL - NEW SCHOOL MASTER PLAN AUG '17 KEM SOIL EROSION SEDIMENT CONTROL DISCIPLINE TEAM LEADER ISSUE SHEET NO DETAILS (SHEET 2 OF 2) 607 FLINDERS STREET, TOWNSVILLE, QUEENSLAND T.M.C BOX 5377, TOWNSVILLE 4810 Ph; 07 47 241 944 E-MAIL: info@i4architecture.com.au STP17-0779 / CD / C06.05 B

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