89 GEORGE STREET, PARRAMATTA

GENERAL NOTES

- . Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the
- 2. Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise. . Make smooth connection with all existing works.
- 4. Compact subgrade under buildings and pavements to minimum 98% standard maximum dry density in accordance with AS 1289 5.1.1. Compaction under buildings to extend 2m minimum beyond building
- 5. All work on public property, property which is to become public property, or any work which is to come under the control of the Statutory Authority is to be carried out in accordance with the requirements of the relevant Authority. The Contractor shall obtain these requirements from the Authority. Where the requirements of the Authority are different to the drawings and specifications, the
- requirements of the Authority shall be applicable. 6. For all temporary batters refer to geotechnical recommendations.

REFERENCE DRAWINGS

. These drawings have been based from, and to be read in conjunction with the following Consultants drawings. Any conflict to the drawings must be notified immediately to the Engineer.

Consultant	Dwg Title	Dwg No	Rev Date
	GROUND LEVEL PLAN	DD-2050	P3 07.02.2017
MATTHEW FREEBL	JRN SURVEY	30414	- 09.07.2016

STORMWATER DRAINAGE NOTES

- Stormwater Design Criteria: (A) Average recurrence interval -
- 1:100 years for roof drainage to first external pit 1:20 years for paved and landscaped areas (B) Rainfall intensities -Time of concentration: 6 minutes
- 1:100 years = 211 mm/hr1:20 years = 164 mm/hr(C) Runoff coefficients -Roof areas: Roads and paved areas: $C_{20} = 0.9$ Landscaped areas: $C_{20} = 0.7$
- 2. Pipes 300 dia and larger to be reinforced concrete Class " " approved spigot and socket with rubber ring joints U.N.O. 2 . Pipes up to 300 dia shall be sewer grade uPVC with solvent welded joints.
- Equivalent strength VCP or FRP pipes may be used subject Precast pits may be used external to the building subject
- to approval by
- 6. Enlargers, connections and diministrators be manufactured fittings where pipes are less than 300 dia. . Where subsoil drains pass under floor slabs and vehicular

pavements, unslotted uPVC sewer grade pipe is to be used.

- 8. Grates and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements. 9. Pipes are to be installed in accordance with AS 3725. All
- bedding to be type H2 U.N.O. 10. Care is to be taken with levels of stormwater lines. Grades shown are not to be reduced without approval.
- 11. All stormwater pipes to be 150 dia at 1.0% min fall U.N.O. 12. Subsoil drains to be slotted flexible uPVC U.N.O. 13. Adopt invert levels for pipe installation (grades shown are only nominal).

PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets - C31 Final internal pit dimensions are to comply with AS3500

Type	Description	Cover (Clear Opening)	Numbe
A	Kerb inlet pit 1800 lintel to remain	450 x 900 Class D galvanised mild steel grate hinged to frame	
В	Surface inlet pit	600 x 900 Class D galvanised mild steel grate hinged to frame	
С	Junction pit	600 x 900 Class D cast iron cover with paver infill	
D		Existing pit to remain	
E		Pollution trap — Rocla's CDS unit 0708	

SURVEY AND SERVICES INFORMATION

: SSM 48996 RL6.296 : A.H.D. AUSTRALIAN HEIGHT DATUM Datum of levels Coordinate system : MGA Survey prepared by: GROUP GSA : CONTACT THE SURVEYOR

Setout Points

subsequent to installation.

Taylor Thomson Whitting does not guarantee that the survey information shown on these drawings is accurate and will accept no liability for any inaccuracies in the survey information provided to us from any cause

UNDERGROUND SERVICES - WARNING

Whittings drawings have been plotted from diagrams provided by service authorities. This information has been prepared solely for the authorities own use and may not necessarily be updated or accurate. The position of services as recorded by the authority at the time of

The locations of underground services shown on Taylor Thomson

Taylor Thomson Whitting does not guarantee that the services information shown on these drawings shows more than the presence or absence of services, and will accept no liability for inaccuracies in the services information shown from any cause whatsoever.

installation may not reflect changes in the physical environment

The Contractor must confirm the exact location and extent of services prior to construction and notify any conflict with the drawings immediately to the Engineer/Superintendent.

The contractor is to get approval from the relevant state survey department, to remove/adjust any survey mark. This includes but is not limited to: State Survey Marks (SSM), Permanent Marks (PM), cadastral reference marks or any other survey mark which is to be removed or adjusted in any way.

Taylor Thomson Whitting plans do not indicate the presence of any survey mark. The contractor is to undertake their own search.

SITEWORKS NOTES

- 1. All basecourse material to comply with RTA specification No 3051 and compacted to minimum 98% modified standard dry density in accordance with AS 1289 5.2.1. 2. All trench backfill material shall be compacted to the same density
- as the adjacent material. 3. All service trenches under vehicular pavements shall be backfilled with an approved select material and compacted to a minimum

98% standard maximum dry density in accordance with AS 1289 5.1.

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on Taylor Thomson Whitting drawing's have been based from information received from : <u>USHER&COMPANY</u>

Taylor Thomson Whitting makes no guarantees that the boundary or easement information shown is correct.

Taylor Thomson Whitting will accept no liabilities for boundary inaccuracies. The contractor/builder is advised to check/confirm all boundaries in relation to all proposed work prior to the commencement of construction. Boundary inaccuracies found are to be reported to the superintendent prior to construction starting.

BULK EARTHWORKS NOTES

- 1. All bulk earthworks setout from grid lines U.N.O.
- 2. All batters at a slope of **2** (H) : **1** (V) U.N.O. 3. Excavated material may be used as structural fill provided, (i) it complies with the specification requirements for fill material,
- (ii) the placement moisture content complies with the Geotechnical Consultants requirements, and allows filling to be placed and proofrolled in accordance with the specification. Where necessary the Contractor must moisture condition the
- excavated material to meet these requirements. 4. Compact fill areas and subgrade to not less than:

Location	Standard dry density (AS 1289 5.1.1.)	Moisture (OMC)
Under building slabs on ground: Under roads and carparks: Landscaped areas:	98% 98% 95%	±2% ±2% ±2%

- _______ 5. Before placing fill, proof roll exposed subgrade with a 10 tonne minimum roller to test subgrade and then remove soft spots (areas with more than 3mm movement under roller). Soft spots to be replaced with **select** fill U.N.O.
- 6. Contractor shall place safety barriers around excavations in accordance with relevant safety regulations 7. For interpretation of bulk earthworks foot print line shown on the bulk earthworks drawings refer to the bulk earthworks construction
- . Bulk earthwork drawings are not to be used for detailed excavation. 9. Refer to Geotechnical Report prepared by —
- Envirowest Consulting Pty Ltd Reference: R13536g 27.11.13

SAFETY IN DESIGN

Contractor to refer to Appendix B of the Civil Specification for the Civil Risk and Solutions Register.

EXISTING SERVICES

Contractor to be aware existing services are located within the site. Location of all services to be verified by the Contractor prior to commencing works. Contractor to confirm with relevant authority regarding measures to be taken to ensure services are protected or procedures are in place to demolish and/or relocate.

EXISTING STRUCTURES

Contractor to be aware existing structures may exist within the site. To prevent damage to existing structure(s) and/or personnel, site works to be carried out as far as practicably possible from existing

EXISTING TREES

Contractor to be aware existing trees exist within the site which need to be protected. To prevent damage to trees and/or personnel, site works to be carried out as far as practicably possible from existing trees. Advice needs to be sought from Arborist and/or Landscape Architect on measures required to protect trees.

GROUNDWATER

Contractor to be aware ground water levels are close to existing surface level. Temporary de-watering may be required during construction works.

EXCAVATIONS

Deep excavations due to stormwater drainage works is required. Contractor to ensure safe working procedures are in place for works. excavations to be fenced off and batters adequately supported to approval of Geotechnical Engineer. **GROUND CONDITIONS**

Contractor to be aware of the site geotechnical conditions. Refer to geotechnical report by (Envirowest Consulting Pty Ltd) for details.

HAZARDOUS MATERIALS

Existing asbestos products & contaminated material may be present or site. Contractor to ensure all hazardous materials are identified prior to commencing works. Safe working practises as per relevant authority to be adopted and appropriate PPE to be used when handling all hazardous materials. Refer to geotechnical/environmental report by (Envirowest Consulting Pty Ltd) for details.

CONFINED SPACES

Contractor to be aware of potential hazards due to working in confined spaces such as stormwater pits, trenches and/or tanks. Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.

MANUAL HANDLING

Contractor to be aware manual handling may be required during construction. Contractor to take appropriate measures to ensure manual | handling procedures and assessments are in place prior to commencing

WATER POLLUTION

Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.

SITE ACCESS/EGRESS Contractor to be aware site works occur in close proximity to

footpaths and roadways. Contractor to erect appropriate barriers and signage to protect site personnel and public. **VEHICLE MOVEMENT**

Contractor to supply and comply with traffic management plan and provide adequate site traffic control including a certified traffic narshall to supervise vehicle movements where necessary.

KERBING NOTES

Includes all kerbs, gutters, dish drains, crossings and edges.

- . All kerbs, gutters, dish drains and crossings to be constructed on minimum 75mm granular basecourse compacted to minimum 98% modified maximum dry density in accordance with AS 1289 5.2.1. Expansion joints (EJ) 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 12m centres except for integral kerbs where the expansion joints are to match the joint locations in slabs. Weakened plane joints to be min 3mm wide and located at 3m
- centres except for integral kerbs where weakened plane joints are to match the joint locations in slabs. 4. Broomed finished to all ramped and vehicular crossings, all other kerbing or dish drains to be steel float finished.
- 5. In the replacement of kerbs -Existing road pavement is to be sawcut 900mm from lip of gutter. Upon completion of new kerbs, new basecourse and surface is to be laid 900mm wide to match existing materials
- and thicknesses. Existing allotment drainage pipes are to be built into the new kerb with a 100mm dia hole. Existing kerbs are to be completely removed where new kerbs

CONCRETE FINISHING NOTES

- . All exposed concrete pavements are to be broomed finished. 2. All edges of the concrete pavement including keyed and dowelled
- joints are to be finished with an edging tool. Concrete pavements with grades greater than 10 % shall be
- heavily broomed finished. 4. Carborundum to be added to all stair treads and ramped crossings U.N.O.

EXPOSURE CLASSIFICATION: External: A2

CONCRETE NOTES

as defined in AS 1379.

CONCRETE Place concrete of the following characteristic compressive strength f'c

Location	AS 1379 f'c MPa at 28 days	Specified Slump	Nominal Agg. Size		
Kerbs	S25 at 90 days	80	20		
Vehicular pavements	S32 at 90 days	80	20		

- Use Type 'GP' cement, unless otherwise specified. All concrete shall be subject to project assessment and testing to
- Consolidate by mechanical vibration. Cure all concrete surfaces as directed in the Specification. For all falls in slab, drip grooves, reglets, chamfers etc. refer to Architects drawings and specifications
- Unless shown on the drawings, the location of all construction joints shall be submitted to Engineer for review. No holes or chases shall be made in the slab without the approval of the Engineer.
- Conduits and pipes are to be fixed to the underside of the top reinforcement layer. Slurry used to lúbricate concrete pump lines is not to be used in
- . All'slabs cast on ground require sand blinding with a Concrete
- . (170) Indicates Slab or Band thickness variation.

The design, certification, construction and performance of the formwork, falsework and backpropping shall be the responsibility of th contractor. Proposed method of installation and removal of formwork is to be submitted to the superintendent for comment prior to work being carried out.

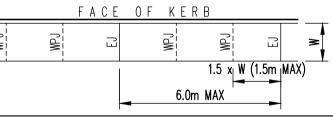
JOINTING NOTES

- **Vehicular Pavement Jointing** 1. All vehicular pavements to be jointed as shown on drawings.
- 2. Keyed construction joints should generally be located at a maximum of 6m centres. 3. Sawn joints should generally be located at a maximum of 6m centres or 1.5 x the spacing of keyed joints, where key joint spacing is less than 4m, with dowelled expansion joints at
- maximum of 30m centres. 4. Provide 10mm wide full depth expansion joints between buildings
- and all concrete or unit pavers. 5. The timing of the saw cut is to be confirmed by the contractor on site. Site conditions will determine how many hours after the concrete pour before the saw cuts are commenced. Refer to the specification for weather conditions and temperatures required. 6. Vehicular pavement jointing as follows.

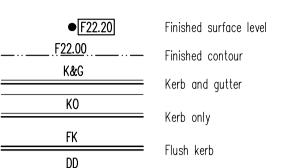
			FACE	0 F	KERB						
 7.	KJ B	SJ	3	S	I .	DEJ	73				
		6m MAX			6m MAX						
_	KJ				چ ق	<u> </u>					
į				30m MAX							
	KJ										
ľ											
	EJ	FA	CEO	F B U	ILDI	N G					

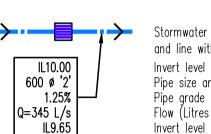
Pedestrian Footpath Jointing

- . Expansion joints are to be located where possible at tangent points of curves and elsewhere at max 6.0m centres. Weakened plane joints are to be located at a max 1.5 x width of
- . Where possible joints should be located to match kerbing and / or
- adjacent pavement joints. 4. All pedestrian footpath jointings as follows (uno).

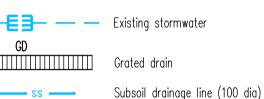


SITEWORKS LEGEND

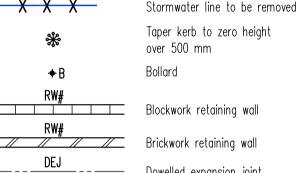


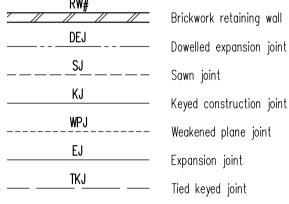


Stormwater pit, flow direction and line with Invert level upstream Pipe size and class Pipe grade Flow (Litres per second) Invert level downstream









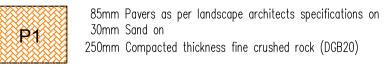
Overland flow path

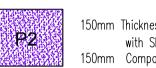
— ← Grass catch drain

EXISTING SEVICES	S LEGEND
-ss	Existing sewer
W W -	Existing water
—— — — EU ——	Existing undergrour
——— — — — — — — — — — — — — — — — — —	Existing aerial elec
— — — T — — — T —	Existing communic
— G G -	Existing gas

PAVEMENT LEGEND

. Asphaltic concrete shall conform to AS2150 and the specification





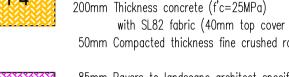
150mm Compacted thickness fine crushed rock (DGB20)



30mm mortar on 100mm Thickness Fibrecrete (f'c=25MPa) on 50mm Compacted thickness fine crushed rock (DGB20)

60mm Pavers as per City of Parramatta Public Domain Guide on

60mm Pavers as per City of Parramatta Public Domain Guide on



30mm mortar on



Landscaping

2. Pavement based on geotechnical report by



150mm Thickness concrete (f'c=32MPa) with with SL72 fabric (50mm top cover) on

FOOTPATH

with SL82 fabric (40mm top cover on 50mm Compacted thickness fine crushed rock (DGB20) 85mm Pavers to landscape architect specification on

250mm Compacted thickness fine crushed rock (DGB20)

round electrical electrical unications Existing stormwater

CIVIL DRAWING LIST

Drawing No Drawing Title

NOTES AND LEGENDS SHEET CATCHMENT PLAN

DETAIL SHEET

EROSION AND SEDIMENT CONTROL PLAN SITEWORKS PLAN

OSD TANK DETAIL SHEET PUBLIC DOMAIN WORKS PUBLIC DOMAIN WORKS LONGITUDINAL SECTIONS

PUBLIC DOMAIN WORKS CROSS SECTIONS

DEVELOPMENT APPLICATION

P6 DEVELOPMENT APPLICATION TH GG 05.03.18 TH GG 02.03.18 P5 DEVELOPMENT APPLICATION Group GSA Pty Ltd P4 DEVELOPMENT APPLICATION TH WW 14.12.17 Level 7, 80 William St East Sydney NSW P3 DEVELOPMENT APPLICATION TH AS 24.10.17 Australia 2011 P2 DEVELOPMENT APPLICATION TH AS 19.04.17 www.groupgsa.com TH RG 29.05.18 P1 DEVELOPMENT APPLICATION TH JW 12.04.17 P7 DEVELOPMENT APPLICATION Rev Description Eng Draft Date Rev Description Eng Draft Date Rev Description



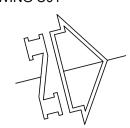
89 GEORGE STREET PARRAMATTA COMPETITION NOTES & LEGEND

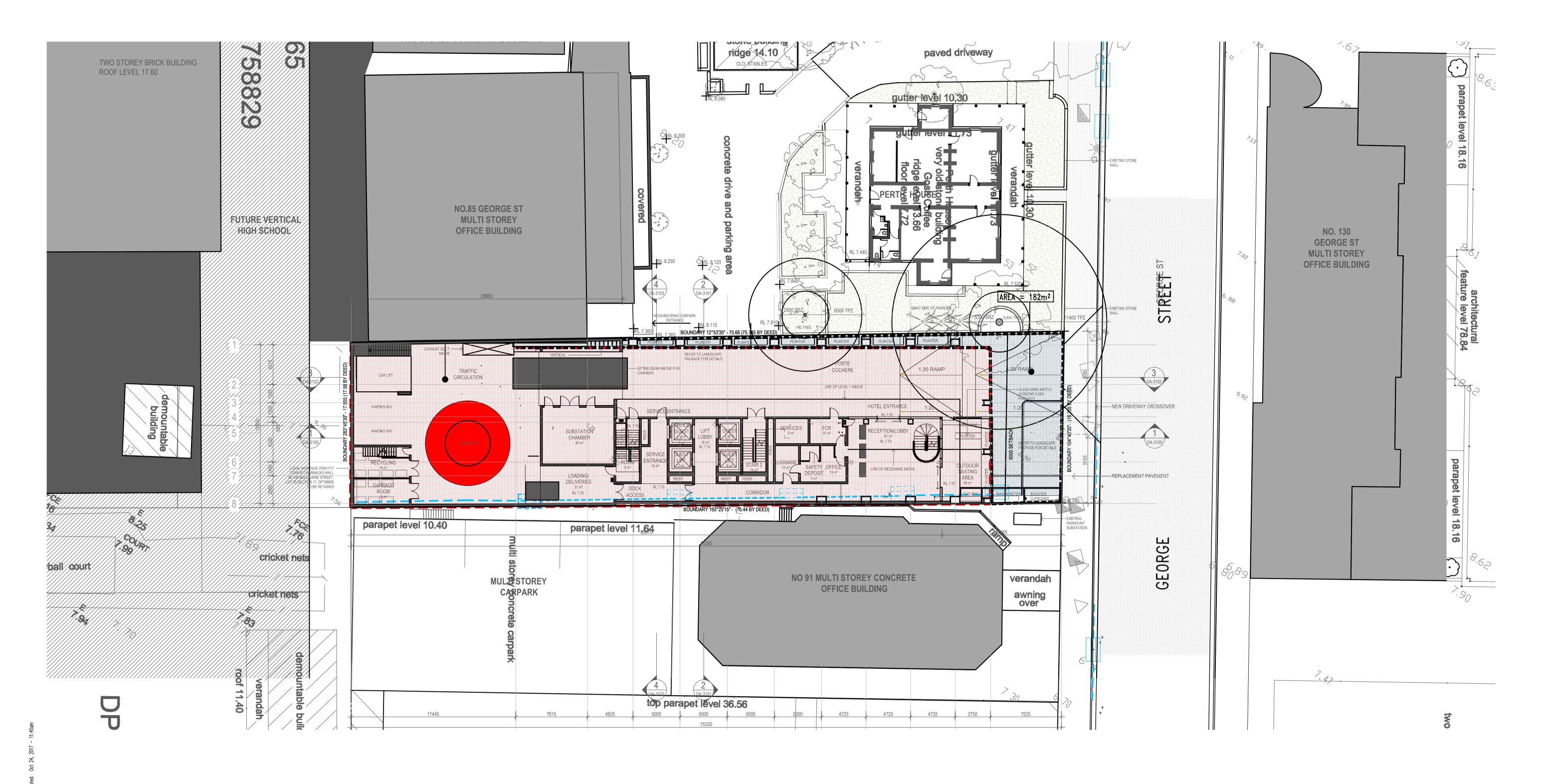
NTS JW 161529

T +612 9361 4144 F +612 9332 3458

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Plot File Created: May 29, 2018 - 11:38am





DEVELOPMENT APPLICATION

							Architect
							Group GSA Pty Ltd
P4 DEVELOPMENT APPLICATION	TH	AS	24.10.17				Level 7, 80 William St East Sydney NSW
P3 DEVELOPMENT APPLICATION	TH	AS	19.04.17				Australia 2011
P2 DEVELOPMENT APPLICATION	TH	JW	12.04.17				www.groupgsa.com
P1 PRELIMINARY	RH	PM	20.12.16				
Rev Description	Fna	Draft	Date Rev Description	Eng Draft Date	Rev Description	Eng Draft Date	T +612 9361 4144 F +612 9332 3458

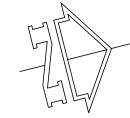
0 1 2 3 4 5 6 7 8 9 10

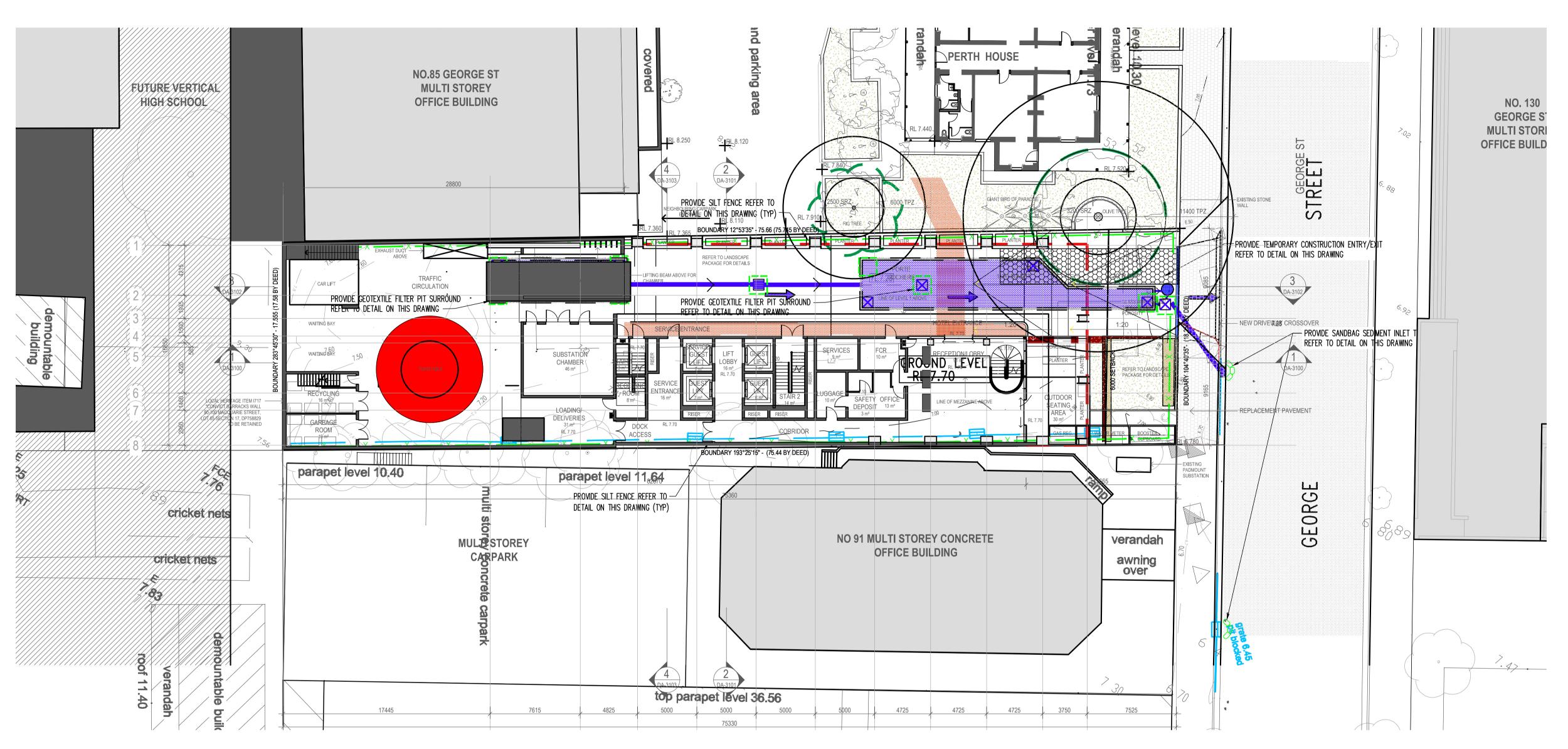


89 GEORGE STREET, PARRAMATTA COMPETITION

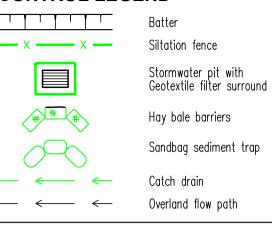
Sneet Subject
CATCHMENTS PLAN

Scale : A1	Drawn	Authorised	<u> </u>				
1:200	РМ	SB					
Job No		Drawing No	Revision				
161529		C02	P4				
Plot File Created: Oct 24, 2017 - 11:45am							





EROSION AND SEDIMENT CONTROL LEGEND



EROSION AND SEDIMENT CONTROL NOTES

- All work shall be generally carried out in accordance with

 (A) Local authority requirements,
- (B) EPA Pollution control manual for urban stormwater,
- (C) LANDCOM NSW Managing Urban Stormwater: Soils and Construction ("Blue Book").

 2. Erosion and sediment control <u>drawings and notes are</u> provided for
- the whole of the works. Should the Contractor stage these works then the design may be required to be modified. Variation to these details may require approval by the relevant authorities. The erosion and sediment control <u>plan</u> shall be implemented and adopted to meet the varying situations as work on site progresses.
- 3. Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
- 4. When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.5. Minimise the area of site being disturbed at any one time.
- 6. Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
- 7. 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
- 8. Control water from upstream of the site such that it does not enter the disturbed site.
- 9. All construction vehicles shall enter and exit the site via the temporary construction entry/exit.10. All vehicles leaving the site shall be cleaned and inspected before
- leaving.

 11. Maintain all stormwater pipes and pits clear of debris and
- sediment. Inspect stormwater system and clean out after each storm event.

 12. Clean out all erosion and sediment control devices after each
- storm event.

Sequence Of Works

- Prior to commencement of excavation the following soil

 management devices must be installed.
- management devices must be installed.
- 1.1. Construct silt fences below the site and across all potential runoff sites.
- suitable control systems.

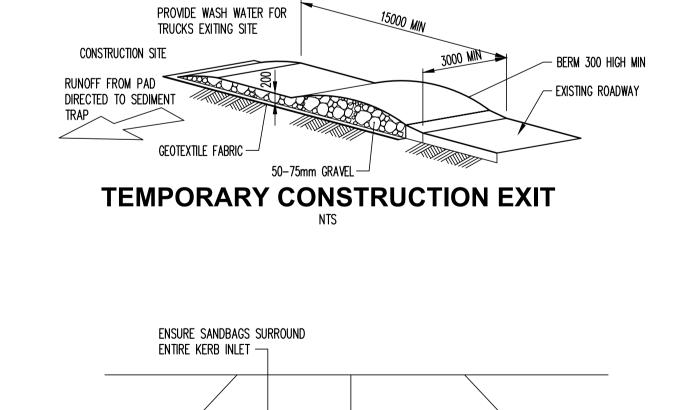
 1.3. Construct measures to divert upstream flows into existing

1.2. Construct temporary construction entry/exit and divert runoff to

- stormwater system.

 1.4. Construct sedimentation traps/basin including outlet control and
- overflow. 1.5. Construct turf lined swales.
- 1.6. Provide sandbag sediment traps upstream of existing pits.2. Construct geotextile filter pit surround around all proposed pits
- as they are constructed.
 3. On completion of pavement provide sand bag kerb inlet sediment
- traps around pits.

 4. Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.



SANDBAG KERB INLET SEDIMENT TRAP

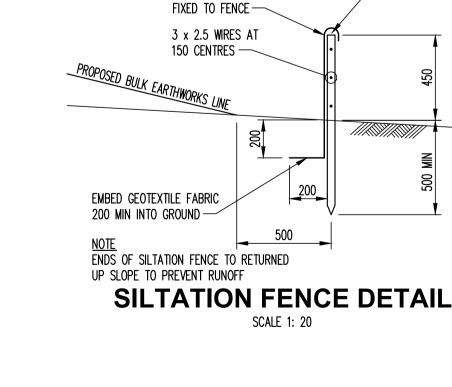
1 2 3 4 5 6 7 8 9 10

RH PM 12.04.17

Eng Draft Date Rev Description

P1 PRELIMINARY

Rev Description

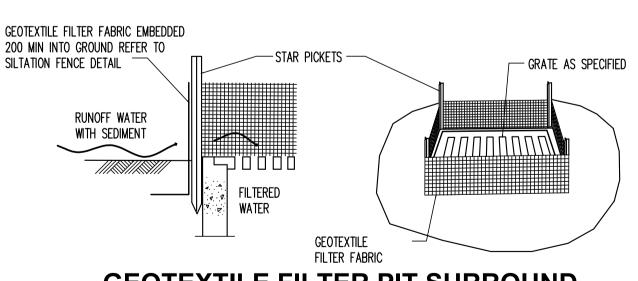


T +612 9361 4144 F +612 9332 3458

Eng Draft Date

GEOTEXTILE FABRIC SECURELY

— STAR PICKET



GEOTEXTILE FILTER PIT SURROUND

			Architect
			Group GSA Pty Ltd
			Level 7, 80 William St East Sydney NSV
			Australia 2011
P2 PRELIMINARY	RH PM 24.10.17		www.groupgsa.com

Eng Draft Date Rev Description



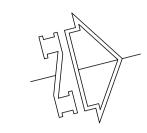
89 GEORGE STREET, PARRAMATTA COMPETITION

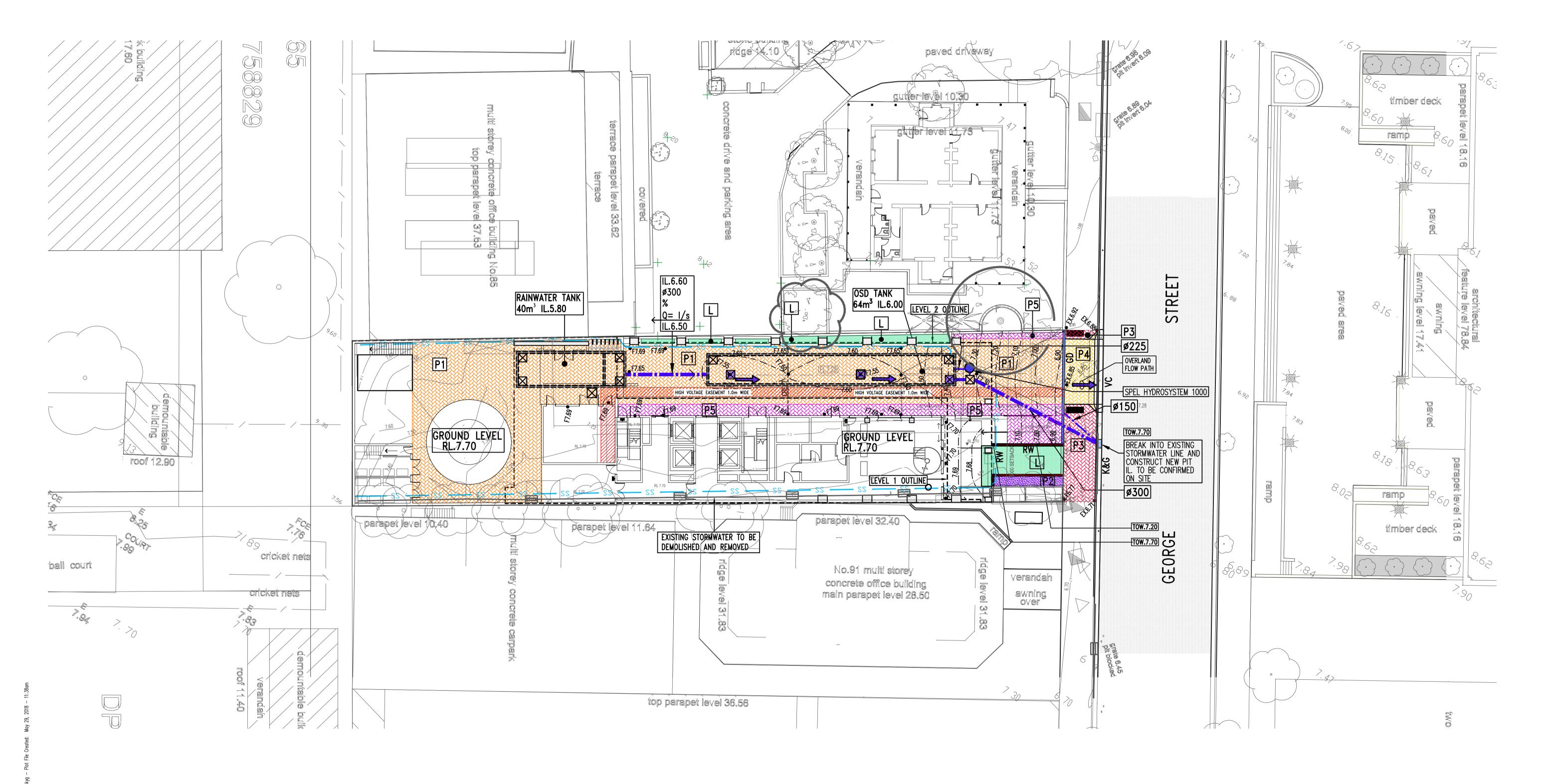
EROSION & SEDIMENT CONTROL PLAN

Scale: A1 Drawn Authorised
1:200 PM SB

Job No Drawing No Revision
161529 C03 P2

Plot File Created: Oct 24, 2017 - 11:49am





DEVELOPMENT APPLICATION

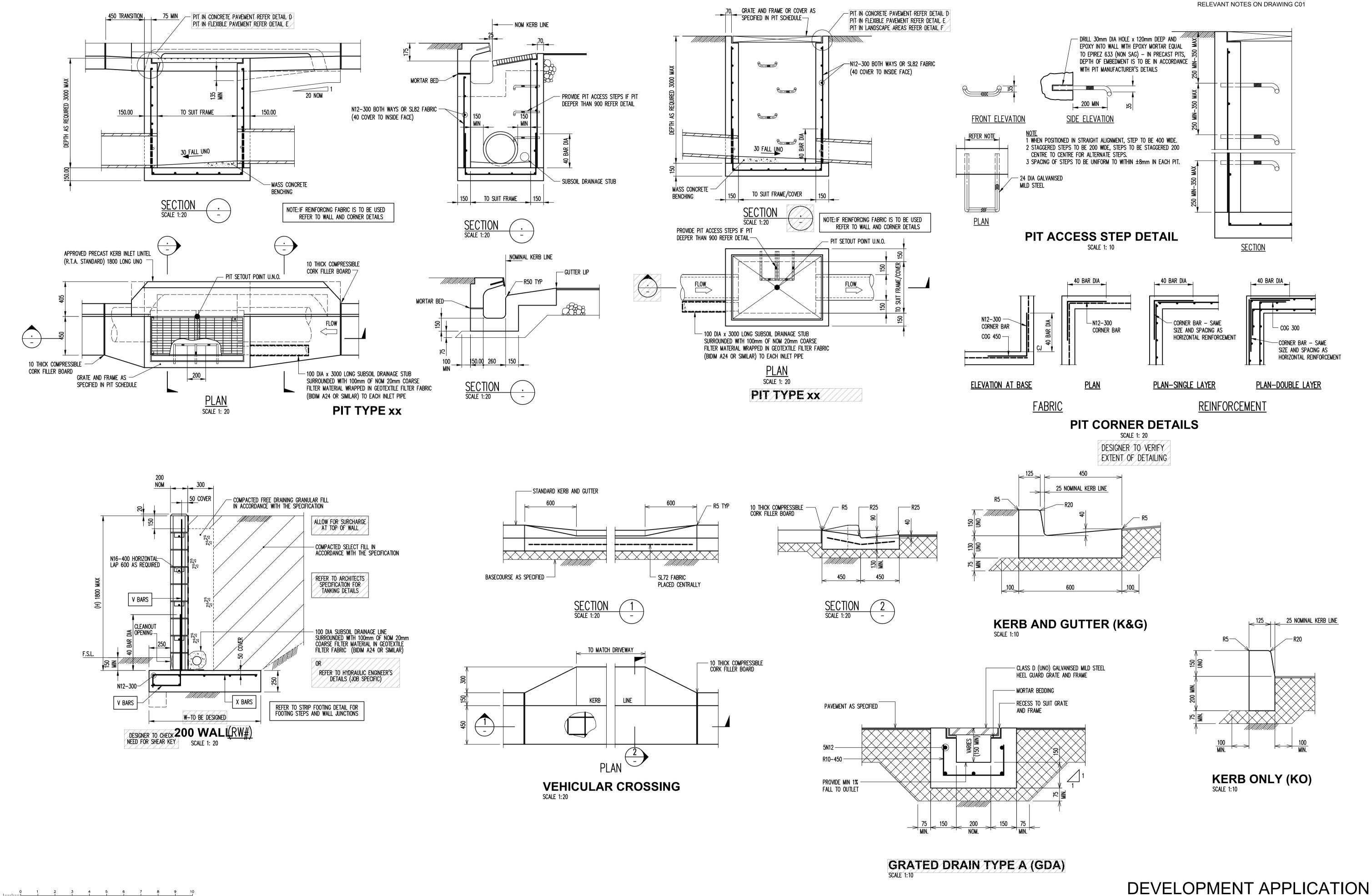
P6 DEVELOPMENT APPLICATION	TH	AS	19.04.17	P12	DEVELOPMENT APPLICATION	TH	GG	05.03.18						Architect
P5 DEVELOPMENT APPLICATION	TH	JW	12.04.17	P11	DEVELOPMENT APPLICATION	TH	GG	02.03.18						Group GSA Pty Ltd
P4 PRELIMINARY	RH	PM	16.02.17	P10	DEVELOPMENT APPLICATION	TH	WW	15.12.17						Level 7, 80 William St East Sydney NSW
P3 PRELIMINARY	RH	PM	02.02.17	P9	DEVELOPMENT APPLICATION	TH	WW	14.12.17						Australia 2011
P2 PRELIMINARY	RH	PM	13.01.17	P8	DEVELOPMENT APPLICATION	TH	JW	24.10.17	P14	DEVELOPMENT APPLICATION	TH	RG	29.05.18	www.groupgsa.com
P1 PRELIMINARY	RH	PM	20.12.16	P7	DEVELOPMENT APPLICATION	TH	JW	14.07.17	P13	DEVELOPMENT APPLICATION	TH	WW	09.03.18	
Rev Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	/ Description	Eng	Draft	Date	T +612 9361 4144 F +612 9332 3458



89 GEORGE STREET, PARRAMATTA COMPETITIO	N
--	---

Sheet Subject
SITEWORKS AND STORMWATER PLAN

Scale : A1	Drawn	Drawn Author			
1:200	PM	SB			
Job No		Drawing No	Revision		
161529		C04	P14		
Plot File Created: Mag	y 29, 2018 -	11:38am			



Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Group GSA Pty Ltd

Australia 2011

Eng Draft Date

Eng Draft Date Rev Description

www.groupgsa.com

P2 DEVELOPMENT APPLICATION

P1 DEVELOPMENT APPLICATION

Rev Description

TH JW 24.10.17

TH JW 12.04.17

Eng Draft Date Rev Description

Level 7, 80 William St East Sydney NSW

T +612 9361 4144 F +612 9332 3458

89 GEORGE STREET, PARRAMATTA COMPETITION

Sheet Subject

DETAIL SHEET

 Scale : A1
 Drawn
 Authorised

 NTS
 JW

 Job No
 Drawing No
 Revision

 161529
 C05
 P2

 Plot File Created: Oct 24, 2017 - 11:51am

- COMPACTED FREE DRAINING GRANULAR FILL

IN ACCORDANCE WITH THE SPECIFICATION

ACCORDANCE WITH THE SPECIFICATION

- COMPACTED SELECT FILL IN

- 190 REINFORCED BLOCKWORK

- N16-400 HORIZONTAL AND VERTICAL

- 100 DIA x 3000 LONG SUBSOIL DRAINAGE STUB SURROUNDED WITH 100mm OF NOM 20mm COARSE

FILTER MATERIAL WRAPPED IN GEOTEXTILE FILTER FABRIC (BIDIM A24 OR SIMILAR) TO EACH INLET PIPE. TYPICAL

- N16-400 L-BARS

LAP 600 TYPICAL

COG 400

TYPICAL

-WATER PROOF MEMBRANE

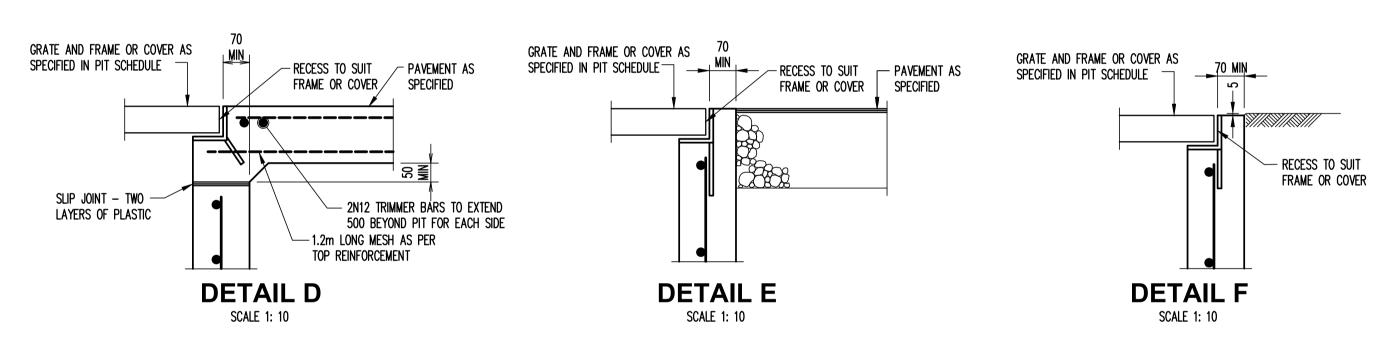
--- N12-200

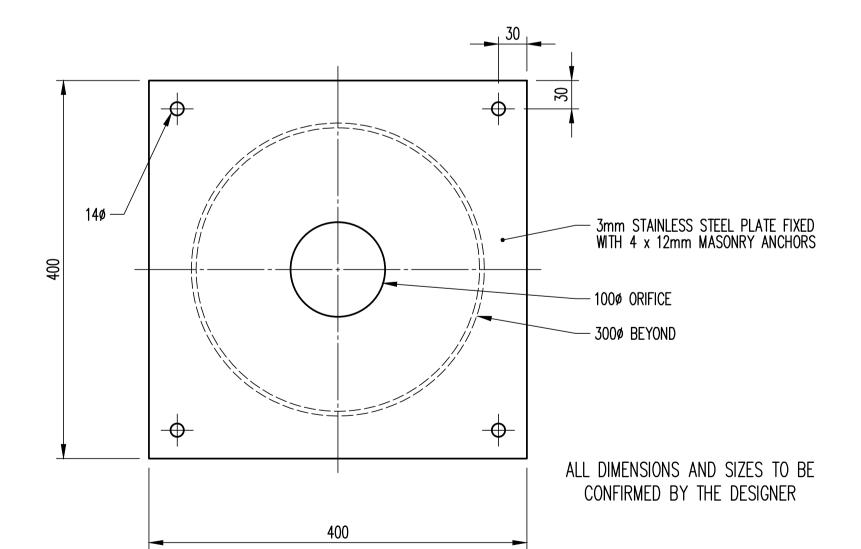
-N12-200

■ 150 kPa BEARING CAPACITY MINIMUM



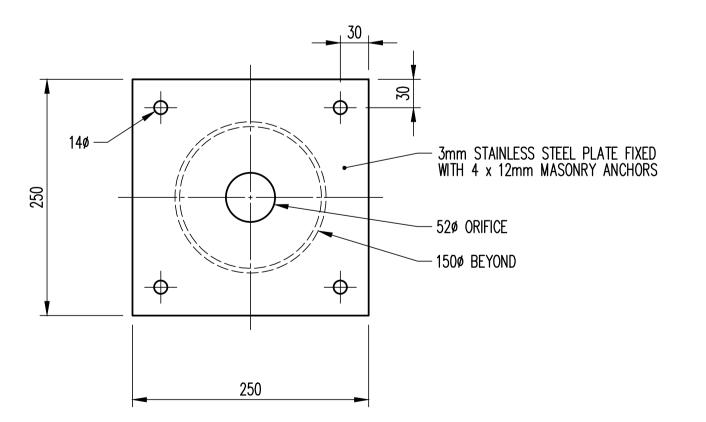
DESIGNER TO VERIFY EXTENT OF DETAILING



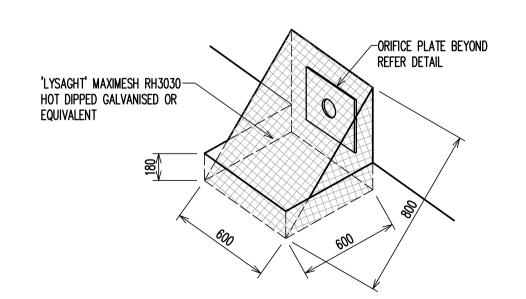


SECONDARY OUTLET ORIFICE PLATE DETAIL

Eng Draft Date Rev Description



PRIMARY OUTLET ORIFICE PLATE DETAIL



TRASH SCREEN DETAIL

Group GSA Pty Ltd
Level 7, 80 William St East Sydney NSW TH AS 24.10.17

Australia 2011

www.groupgsa.com

T +612 9361 4144 F +612 9332 3458

Taylor Thomson Whitting 612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

89 GEORGE STREET, PARRAMATTA COMPETITION

-N20-200

-N16-200

−N12−300

PROVIDE 200x400 WIDE OPENINGS -

DESIGNER TO VERIFY EXTENT OF DETAILING

AT 1600 CTS STARTING AT THE

DOWNSTREAM END

300 MIN. TYPICAL TOP & BOTTOM

OSD TANK DETAIL SHEET

DEVELOPMENT APPLICATION AS SHOWN

161529 P3 Plot File Created: Oct 24, 2017 - 11:52am

P3 DEVELOPMENT APPLICATION

P2 DEVELOPMENT APPLICATION

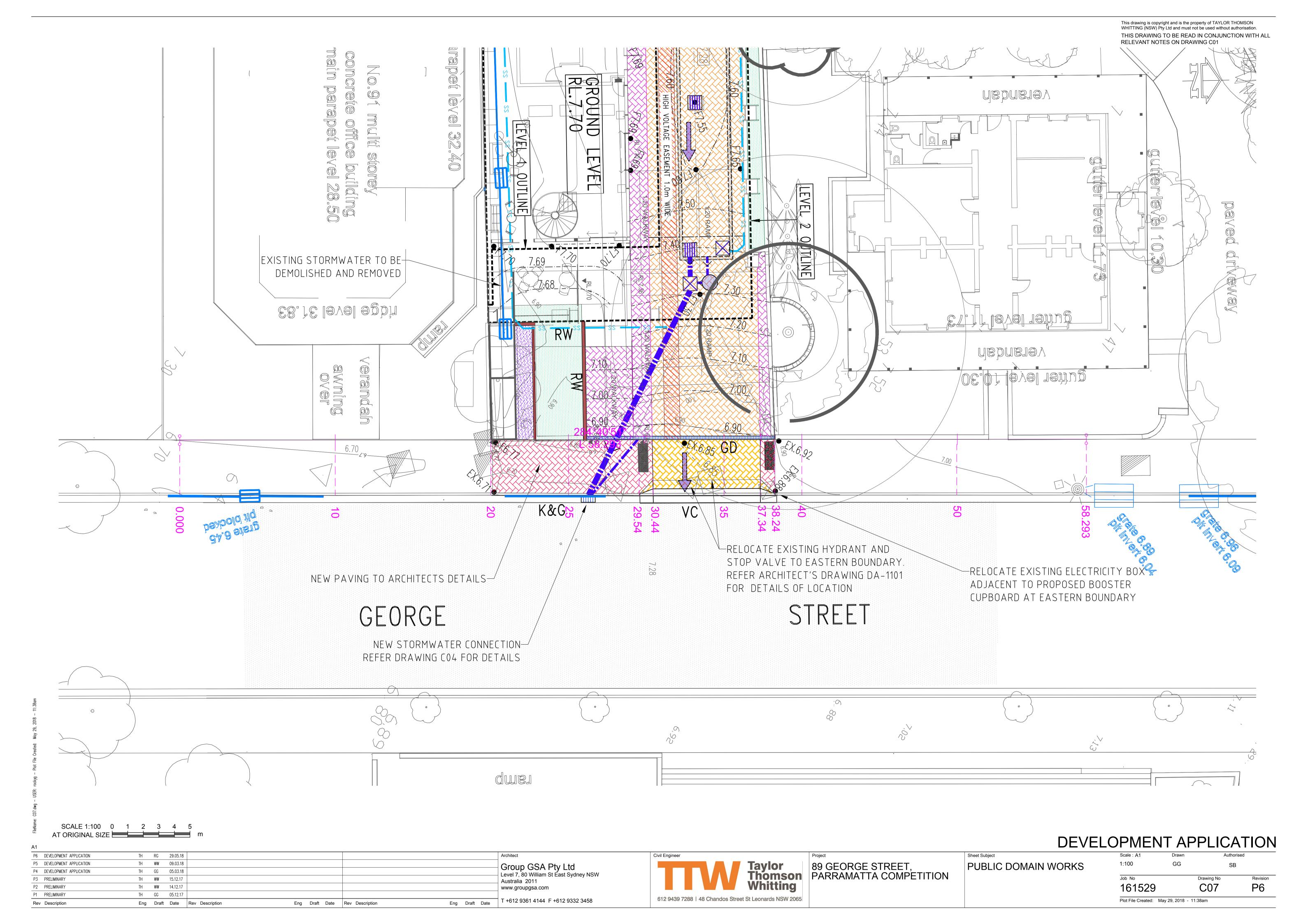
P1 DEVELOPMENT APPLICATION

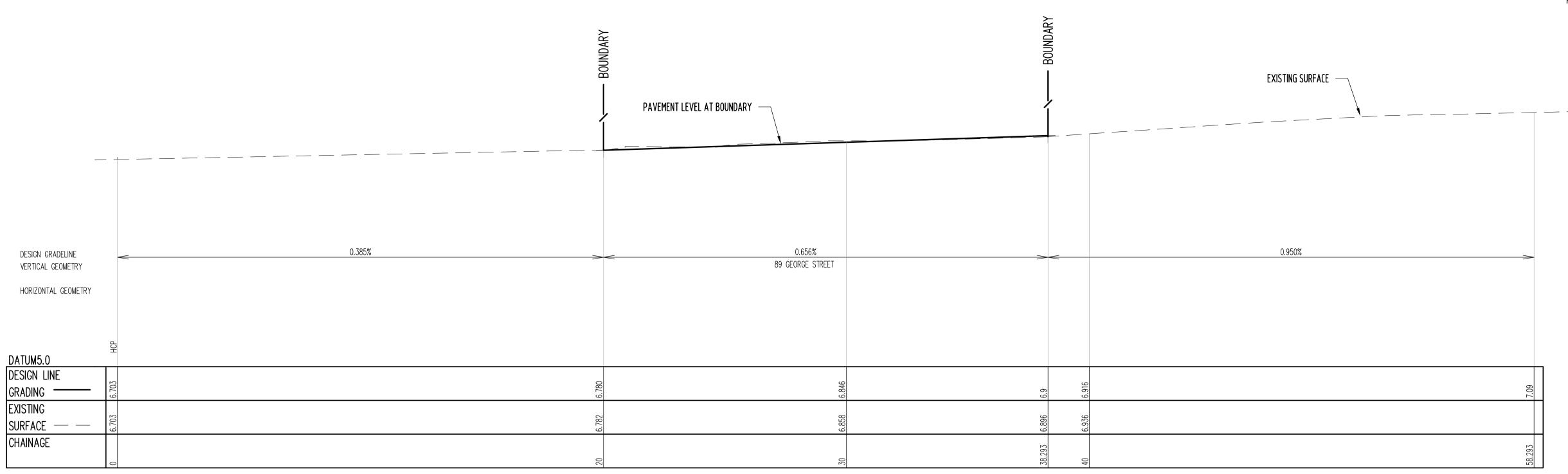
Rev Description

TH AS 19.04.17

TH JW 12.04.17

Eng Draft Date Rev Description

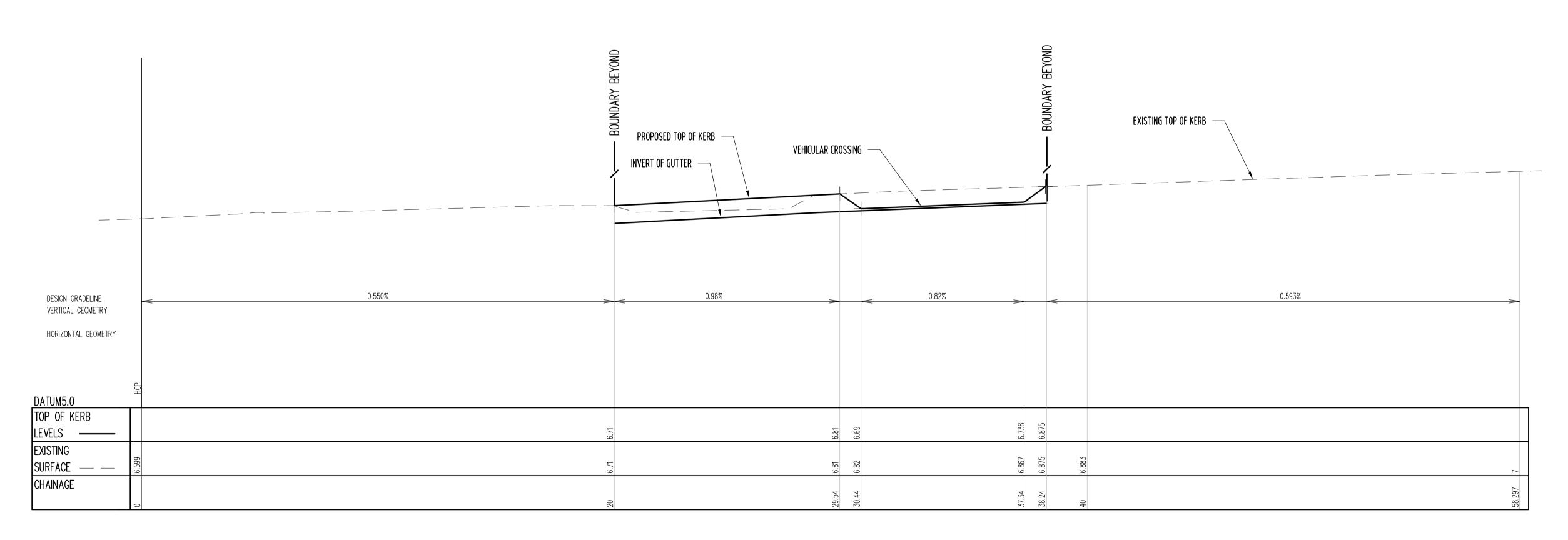




LONGITUDINAL SECTION AT BOUNDARY

Horizontal scale 1:100

Vertical scale 1:20



LONGITUDINAL SECTION TOP OF KERB

Horizontal scale 1:100

Vertical scale 1:20

A1	AT ORIGINAL SIZE	1 2	3	4	5 m							
P6	DEVELOPMENT APPLICATION	TH	WW	09.03.18								Architect
P5	DEVELOPMENT APPLICATION	TH	GG	05.03.18								Group GSA Pty Ltd
P4	DEVELOPMENT APPLICATION	TH	GG	02.03.18								Level 7, 80 William St East Sydney NSW
P3	PRELIMINARY	TH	WW	15.12.17								Australia 2011
P2	PRELIMINARY	TH	WW	14.12.17								www.groupgsa.com
P1	PRELIMINARY	TH	GG	05.12.17								
Rev	Description	Eng	Draft	Date	Rev Description	Eng	Draft Date	Rev Description	Eng	Draft	Date	T +612 9361 4144 F +612 9332 3458

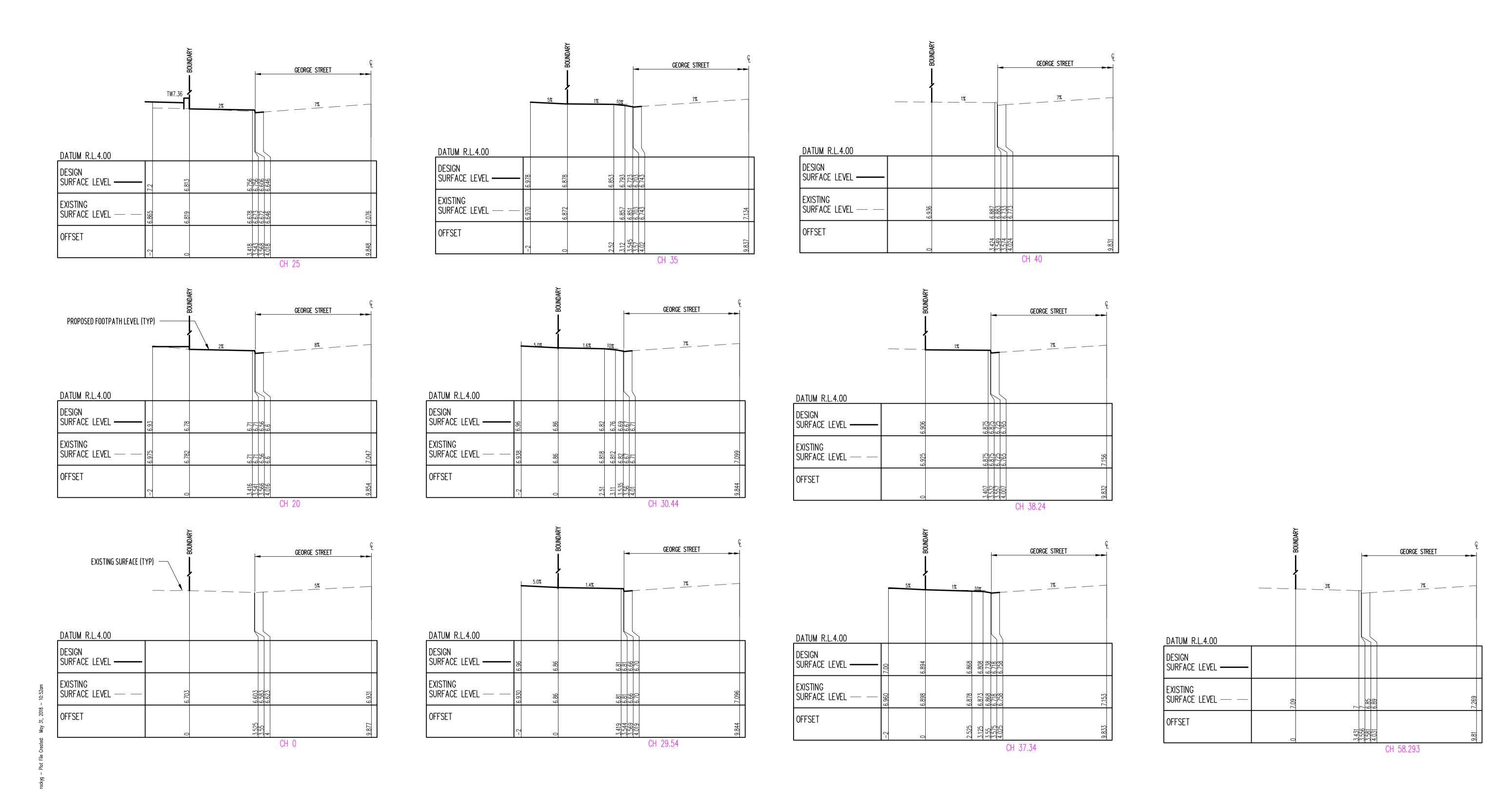


Taylor
Thomson
Whitting

89 GEORGE STREET,
PARRAMATTA COMPETITION

PUBLIC DOMAIN WORKS
LONGITUDINAL SECTIONS

DEVELOPMENT APPLICATION									
	Scale : A1	Drawn	Authorised						
WORKS	1:100	GG	SB						
SECTIONS	Job No		Drawing No	Revision					
	161529		C08	P6					
	Plot File Created: Ma	Plot File Created: Mar 09, 2018 - 2:15pm							



DEVELOPMENT APPLICATION

P6 DEVELOPMENT APPLICATION TH **WW** 09.03.18 P5 DEVELOPMENT APPLICATION TH GG 05.03.18 Group GSA Pty Ltd
Level 7, 80 William St East Sydney NSW TH GG 02.03.18 P4 DEVELOPMENT APPLICATION TH WW 15.12.17 P3 PRELIMINARY Australia 2011 P2 PRELIMINARY TH WW 14.12.17 P8 DEVELOPMENT APPLICATION TH RG 31.05.18 www.groupgsa.com TH GG 05.12.17 P7 DEVELOPMENT APPLICATION TH RG 29.05.18 P1 PRELIMINARY Eng Draft Date T +612 9361 4144 F +612 9332 3458 Rev Description Eng Draft Date Rev Description Eng Draft Date Rev Description



Taylor
Thomson
Whitting

Project

89 GEORGE STREET,
PARRAMATTA COMPETITION

CRO

PUBLIC DOMAIN WORKS
CROSS SECTIONS

 Scale : A1
 Drawn
 Authorised

 1:100
 GG
 SB

 Job No
 Drawing No
 Revision

 161529
 C09
 P8

 Plot File Created:
 May 31, 2018 - 10:52am