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THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL  
RELEVANT NOTES ON DRAWING C001

Scale : A1	Drawn	Authorized
NTS	MV	
Job No	Drawing No	Revision
179094	C001	B
Plot File Created: Dec 10, 2019 - 3:23pm		



EROSION AND SEDIMENT CONTROL NOTES

- Total site area = 5900.00m<sup>2</sup>.
- Average Slope = 1.2%
- The contractor shall incorporate all erosion & sediment control measures including silt fences, kerb inlet sediment traps and sand bag inlet sediment traps in accordance with the requirements of the Environmental Protection Act 2011. The contractor shall gain approval for the erosion & sediment control plan prior to commencing construction.
- Erosion and sediment control **drawings and notes** are provided for the whole of the works. Should the Contractor stage these works then the design may require to be modified. Variation to these details may require to be approved by the relevant authorities. The erosion and sediment control **plan** shall be implemented and adapted to meet the varying situations as work on site progresses.
- Maintain all erosion and sediment control devices to the satisfaction of ACT Environment Protection.
- When stormwater pits are constructed prevent site runoff entering the pits unless silt fences are erected around pits.
- Minimise the area of site being disturbed at any one time.
- Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, near drainage pits or in watercourses.
- All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
- Control water from upstream of the site such that it does not enter the disturbed site.
- All construction vehicles shall enter and exit the site via the temporary construction entry/exit.
- All vehicles leaving the site shall be cleaned and inspected before leaving.
- Maintain all stormwater pipes and pits clear of debris and sediment. Inspect stormwater system and clean out after each storm event.
- Clean out all erosion and sediment control devices after each storm event.
- Stabilised construction entry and exit to be constructed prior to vehicles entering site.
- Erosion and sediment controls are to be installed prior to the stripping of any topsoil.
- All construction works other than external service connections and roadworks shall be contained within the site.
- All parking and storage of goods shall be provided on site unless negotiated with TCCS.

Sequence Of Works

- Prior to commencement of excavation the following soil management devices must be installed.
  - Construct silt fences below the site and across all potential runoff sites.
  - Construct temporary construction entry/exit and divert runoff to suitable control systems.
  - Construct measures to divert upstream flows into existing stormwater system.
  - Construct sedimentation traps/basin including outlet control and overflow.
  - Construct turf lined swales.
  - Provide sandbag sediment traps upstream of existing pits.
- Construct geotextile filter pit surround around all proposed pits as they are constructed.
- On completion of pavement provide sand bag kerb inlet sediment traps around pits.
- Provide and maintain a strip of turf on both sides of all roads after the construction of kerbs.

DUST MANAGEMENT

When Carrying out construction works that generate dust the following measures shall be incorporated into the construction methodologies adopted by the builder and their subcontractors:

- All works shall be carried out in accordance with the Environment Protection Guidelines for Construction and Land Development in the ACT 2011.
- A water cart or sprinkler system suitable for dust control must be made available on site at all times for the duration of the contract.
- All stockpiles shall be protected by either mesh/plastic sheeling or be vegetated. Vegetated stockpiles shall be protected by mesh until vegetation is established.
- Completed earth works in landscaped areas shall be seeded with dryland grass and protected from traffic until vegetation is established.
- The contractor shall obtain all relevant approvals from Actew and the water resources unity to use either potable or non potable water on site for dust control.

TRUCKS

All trucks are to have loads covered.

DISPOSAL OF SPOIL

Prior to the removal of spoil from the site the builder shall provide the following information to Environment ACT:

- Origin and description of spoil material.
  - Contractor responsible for the disposal of spoil.
  - Records of spoil treatment.
  - Destination of spoil and associated volumes.
  - Dates and anticipated duration of works.
- Spoil may be transported to an approved landfill site without the approval of ACT Environment Protection.

If spoil is taken to a non approved landfill site the builder is to ensure that the site owner is aware and follows the requirements of the Environment and Protection Guidelines for Construction and Land Development in the ACT.

FIRE

Burning of waste materials on site is not permitted.

NOISE

All building works that produce noise shall be carried out within the following time frames in accordance with the requirements of the Environment Protection Guidelines for Construction and Land Development Act 2011:

- Works within city and town centre areas or Industrial areas  
6am – 8pm Monday – Sunday  
Other areas where works are completed within 14 days  
7am – 6pm Monday – Saturday  
8am – 8pm Sundays and Public Holidays  
Other areas where works are not completed within 14 days  
7am – 6pm Monday – Saturday  
Works may not exceed noise standards on Sundays and Public Holidays
- The builder shall schedule noisy activities to occur during the mid morning or mid afternoon periods.
- Machinery shall be well maintained and machines that produce lower levels of noise shall be selected to carry out the works.

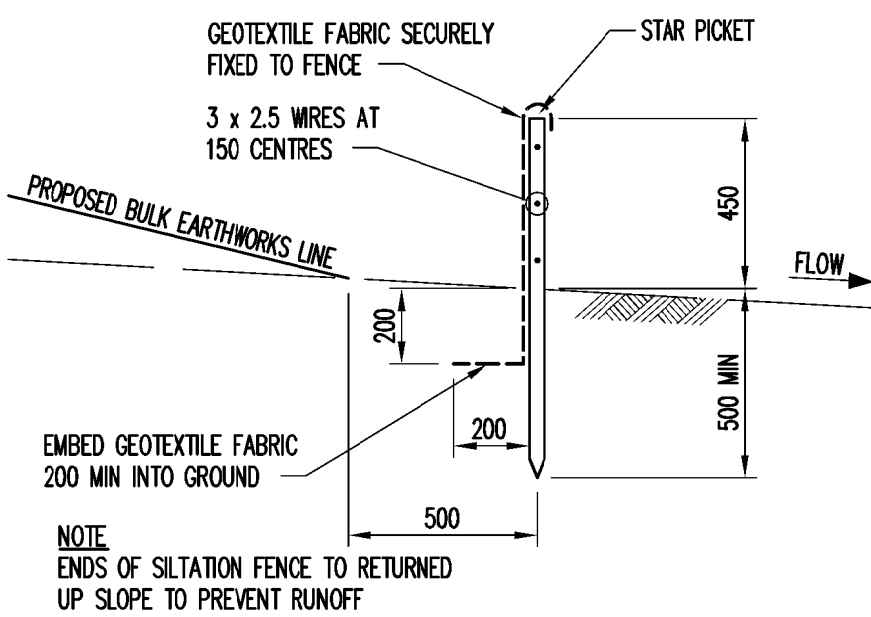
MAINTENANCE SCHEDULE

The builder is to keep records of maintenance works for the entirety of the contract.

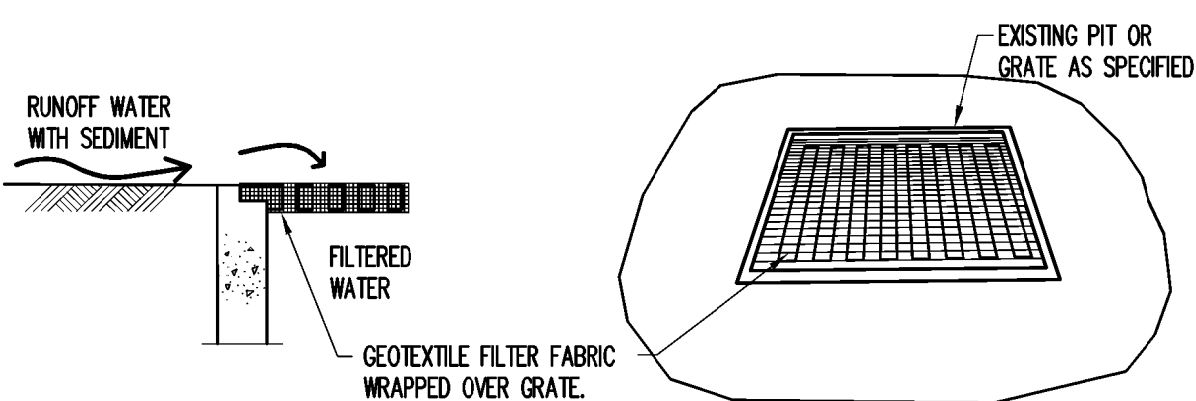
- The following maintenance shall be carried out on a monthly basis.
  - Reinstate construction entry material so that fines are not washed out during rain events. Reinstatement may consist of adding additional material to the entry or turning the existing entry material.
- The following maintenance shall be carried out on a daily basis.
  - Remove dirt from footpaths and roadways adjacent to the site at the end of each business day prior to rainfall.
  - Secure all stockpiles and loose materials to minimise dust pollution.
  - Check all siltation devices and repair as required and clear debris.

GENERAL NOTES

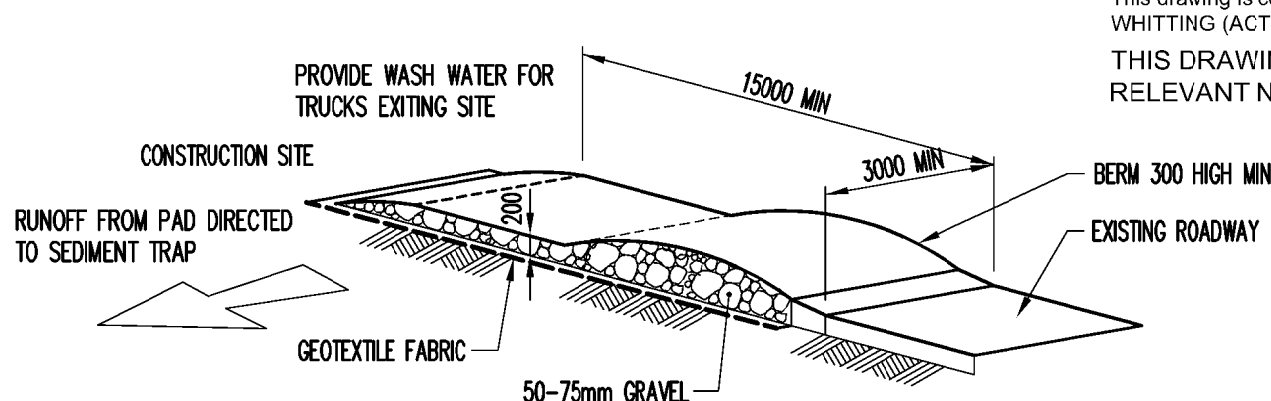
- Waste enclosures shall be located on site and used for all rubbish produced during construction. Builder to arrange for rubbish to be removed from enclosure when capacity of waste enclosure is reached.
- All works to comply with the Environment Protection Guidelines for Construction and Land Development in the ACT 2011



SILTATION FENCE DETAIL  
SCALE 1:20



GEOTEXTILE PIT FILTER  
NTS

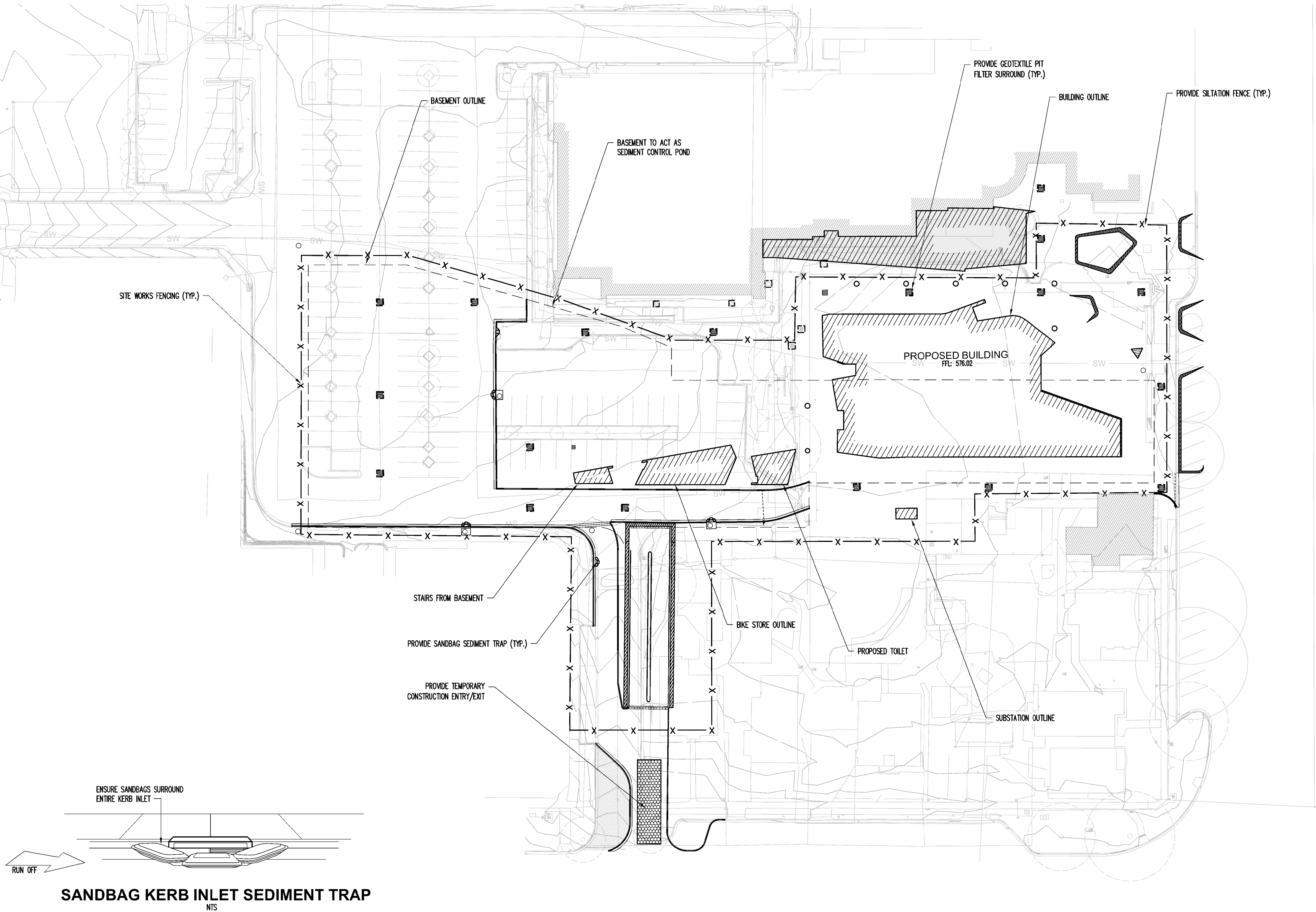


TEMPORARY CONSTRUCTION EXIT  
NTS

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EROSION AND SEDIMENT CONTROL LEGEND

- Batter
- Siltation fence
- Stormwater pit with Geotextile filter surround
- Hay bale barriers
- Sandbag sediment trap
- Catch drain
- Overland flow path



SANDBAG KERB INLET SEDIMENT TRAP  
NTS

EROSION AND SEDIMENT CONTROL PLAN

SCALE 1:400



A1 .....2 1 2 3 4 5 6 7 8 9 10

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
D	ISSUE FOR DEVELOPMENT APPLICATION	CP	MV	10.12.19										
C	PRELIMINARY FOR REPORTING	CP	MV	14.06.19										
B	PRELIMINARY FOR REPORTING	CP	MV	07.08.19										
A	PRELIMINARY FOR REPORTING	CP	MV	05.08.19										

Architect	
Civil Engineer	

**TTW** Taylor Thomson Whitting

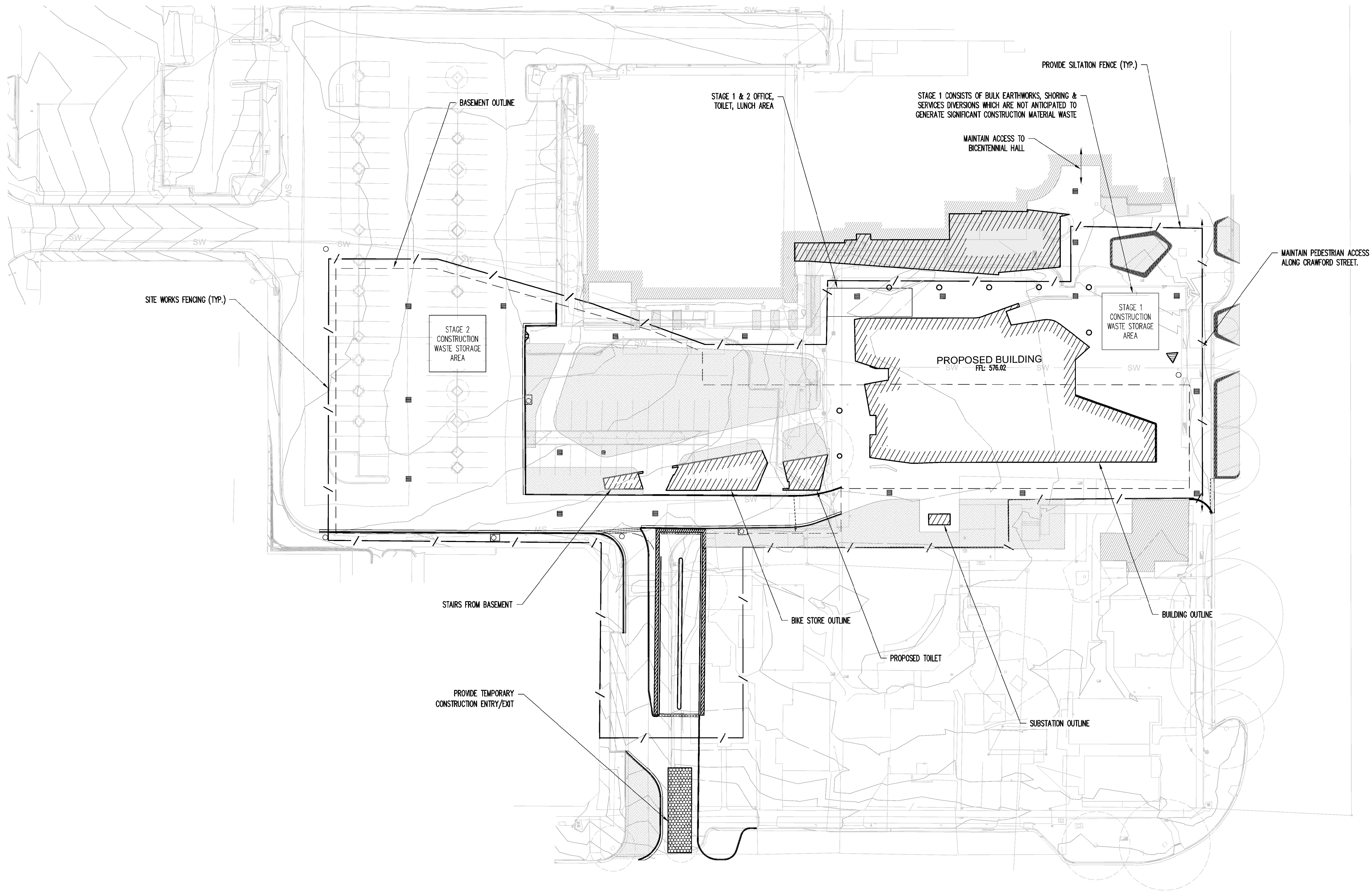
Project	QPRC HEAD OFFICE
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Sheet Subject	EROSION AND SEDIMENT CONTROL PLAN
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Scale : A1 1:400	Drawn MV	Authorized
Job No 179094	Drawing No C010	Revision D
Plot File Created: Dec 10, 2019 - 3:28pm		

PRELIMINARY





SITE MANAGEMENT PLAN  
SCALE 1:400

C:\Users\mshaw\OneDrive\Documents\179094\179094.dwg - Plot File Created: Dec 10, 2019 - 3:29pm

A1 0 1 2 3 4 5 6 7 8 9 10

B ISSUE FOR DEVELOPMENT APPLICATION				CP	MV	10.12.19									
A PRELIMINARY FOR REPORTING				CP	KI	14.08.19									
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev

Architect

Civil Engineer

**TTW** Taylor Thomson Whitting

Project

QPRC HEAD OFFICE

Sheet Subject

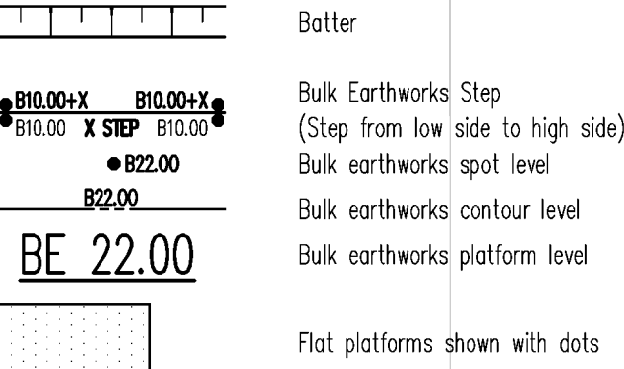
SITE MANAGEMENT PLAN

**PRELIMINARY**

Scale : A1 1:400	Drawn MV	Authorized
Job No 179094	Drawing No C020	Revision B
Plot File Created: Dec 10, 2019 - 3:29pm		



BULK EARTHWORKS LEGEND



BULK EARTHWORKS NOTES

- All bulk earthworks setout from grid lines U.N.O.
- All temporary batters at a slope of 1.5(H) : 1(V) U.N.O.
- Excavated material may be used as structural fill provided,
  - it complies with the specification requirements for fill material,
  - 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:	98%	±2%
Under roads and carparks:	98%	±2%
Landscaped areas:	95%	±2%

- 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.
- Contractor shall place safety barriers around excavations in accordance with relevant safety regulations.
- For interpretation of bulk earthworks foot print line shown on the bulk earthworks drawings refer to the bulk earthworks construction legend.
- Bulk earthwork drawings are not to be used for detailed excavation.
- Refer to Geotechnical Report prepared by –  
D&N Geotechnical Pty Ltd  
C-0259.00 R1 (06.06.19)

STAIRS FROM BASEMENT

RETAINING WALL ABOVE

BASEMENT RAMP BULK LEVEL VARIES

BULK EXCAVATION PLAN

SCALE 1:250



Filename: C030.dwg User: mshw - Plot File Created: Dec 10, 2019 - 3:29pm

A1 ..... 2 1 2 3 4 5 6 7 8 9 10

E	ISSUE FOR DEVELOPMENT APPLICATION	CP	MV	10.12.19					
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A	PRELIMINARY FOR REPORTING	CP	MV	05.08.19					
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

Architect

Civil Engineer



Project

QPRC HEAD OFFICE

Sheet Subject

BULK EXCAVATION PLAN

Scale : A1

1:250

Drawn

MV

Authorized

Job No

179094

Drawing No

C030

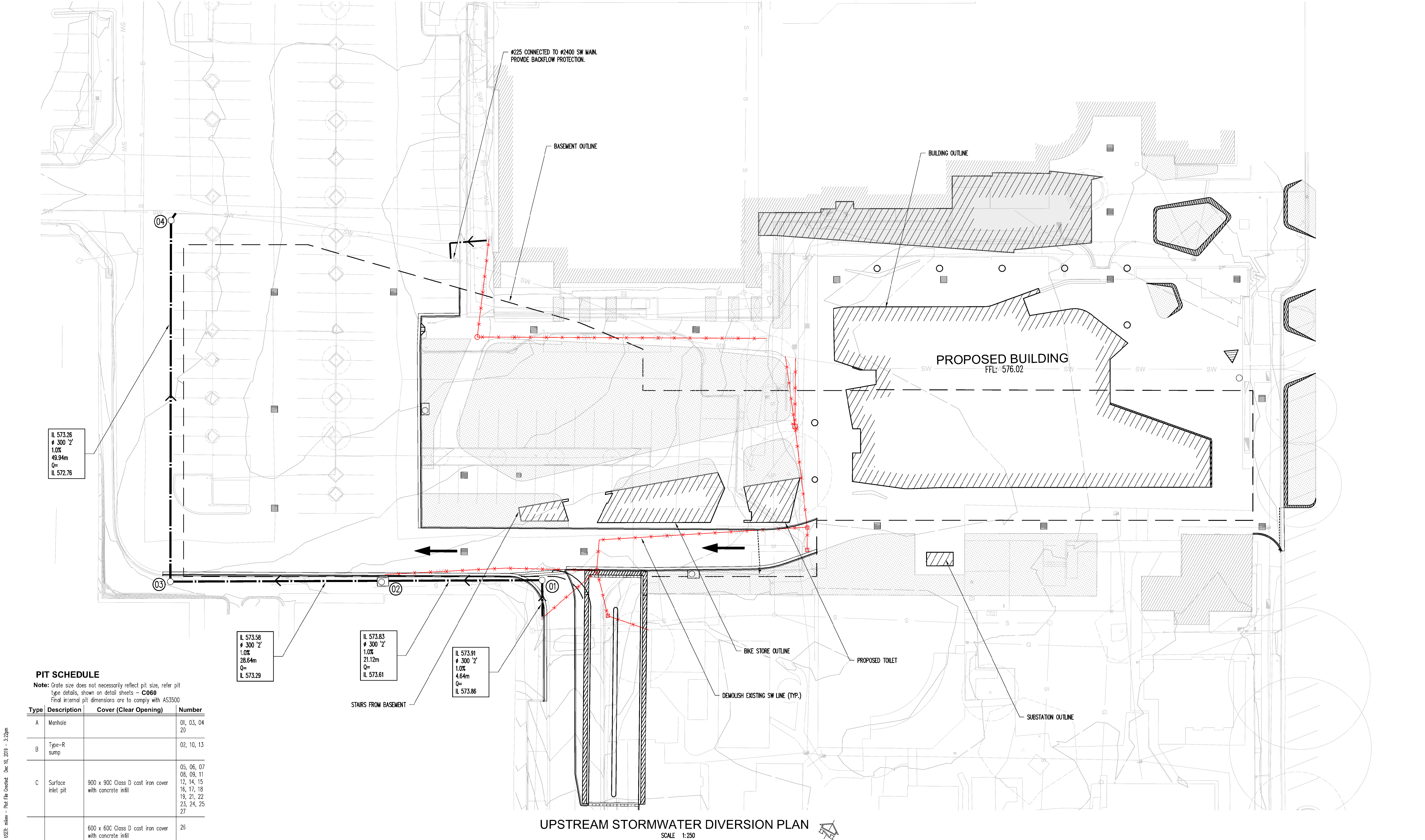
Revision

E

Plot File Created: Dec 10, 2019 - 3:29pm

PRELIMINARY





PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets - C060  
Final internal pit dimensions are to comply with AS3500

Type	Description	Cover (Clear Opening)	Number
A	Manhole		01, 03, 04 20
B	Type-R sump		02, 10, 13
C	Surface inlet pit	900 x 900 Class D cast iron cover with concrete infill	05, 06, 07 08, 09, 11 12, 14, 15 16, 17, 18 19, 21, 22 23, 24, 25 27
		600 x 600 Class D cast iron cover with concrete infill	26
D	Grated drain	300 ACO drain Class D	28, 29

Filename: C:\McAfee - US2C - mslaw - Plot File Created: Dec 10, 2019 - 3:22pm

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C	ISSUE FOR DEVELOPMENT APPLICATION	CP	MV	10.12.19					
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Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

Architect	Civil Engineer
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TTW Taylor Thomson Whitting

Project	QPRC HEAD OFFICE
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Sheet Subject	UPSTREAM STORMWATER DIVERSION PLAN
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Scale : A1 1:250	Drawn MV	Authorized
Job No 179094	Drawing No C040	Revision C
Plot File Created: Dec 10, 2019 - 3:22pm		



PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets - C060  
Final internal pit dimensions are to comply with AS3500

Type	Description	Cover (Clear Opening)	Number
A	Manhole		01, 03, 04, 20
B	Type-R sump		02, 10, 13
C	Surface inlet pit	900 x 900 Class D cast iron cover with concrete infill	05, 06, 07, 08, 09, 11, 12, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 27
		600 x 600 Class D cast iron cover with concrete infill	26
D	Grated drain	300 ACO drain Class D	28, 29

CRAWFORD STREET

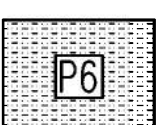
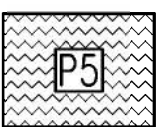
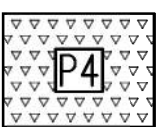
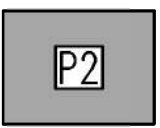
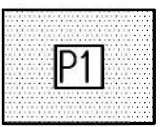
STREET

CONNECT TO EXISTING #2400 SW MAIN. PROVIDE BACKFLOW PROTECTION.

PAVEMENT LEGEND

NOTES

- Asphaltic concrete shall conform to AS2150 and the specification
- Pavement based on geotechnical report by D&N Geotechnical Pty Ltd



SITE WORKS PLAN

SCALE 1:200



Filename: C041.dwg - User: mckay - Plot File Created: Dec 10, 2019 - 3:36pm

A1 1 2 3 4 5 6 7 8 9 10

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B	PRELIMINARY FOR REPORTING	CP	MV	07.08.19															
A	PRELIMINARY FOR REPORTING	CP	MV	05.08.19															

Architect	
Civil Engineer	



Project	QPRC HEAD OFFICE
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Sheet Subject	SITE WORKS PLAN SHEET 1
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Job No 179094	Drawing No C041	Revision C
Plot File Created: Dec 10, 2019 - 3:36pm		





Scale : A1	Drawn	Authorized
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Job No	Drawing No	Revision
179094	C042	C
Plot File Created: Dec 10, 2019 - 3:22pm		

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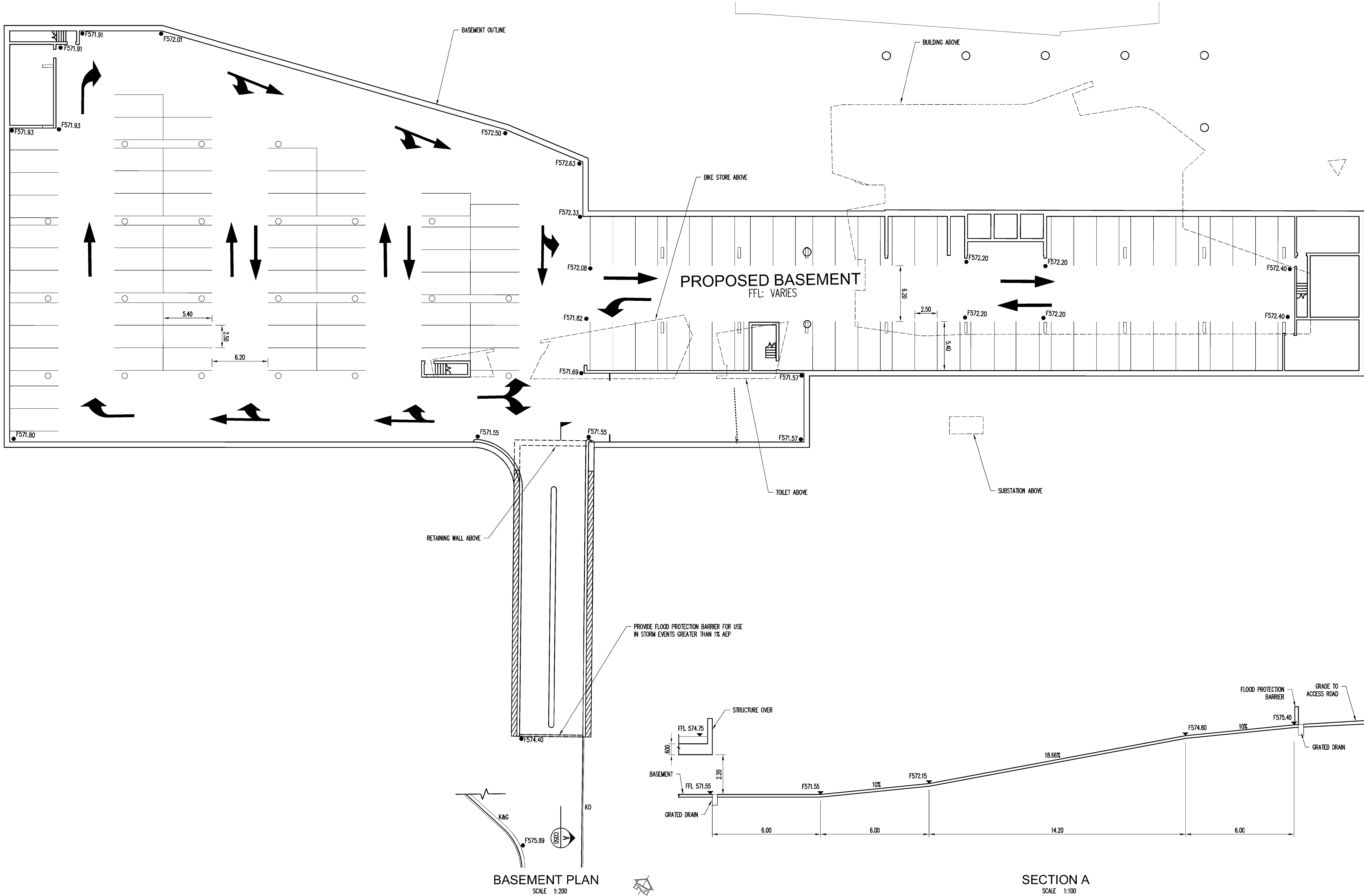
**TTW** Taylor  
Thomson  
Whitting





Scale : A1	Drawn	Authorized
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Job No	Drawing No	Revision
179094	C043	C
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Filename: C050.dwg USER: mtlw - Plot File Created: Dec 10, 2019 - 3:30pm

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A	PRELIMINARY FOR REPORTING	CP	MV	05.08.19					
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

Architect

Civil Engineer



Project

QPRC HEAD OFFICE

Sheet Subject

BASEMENT PLAN

Scale : A1

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Drawn

MV

Authorized

Job No

179094

Drawing No

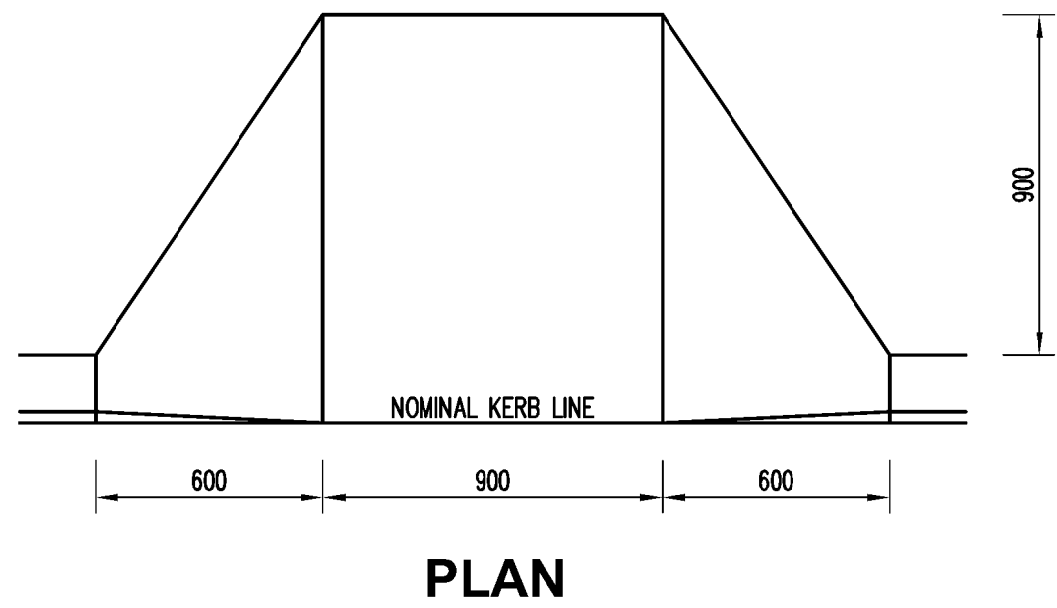
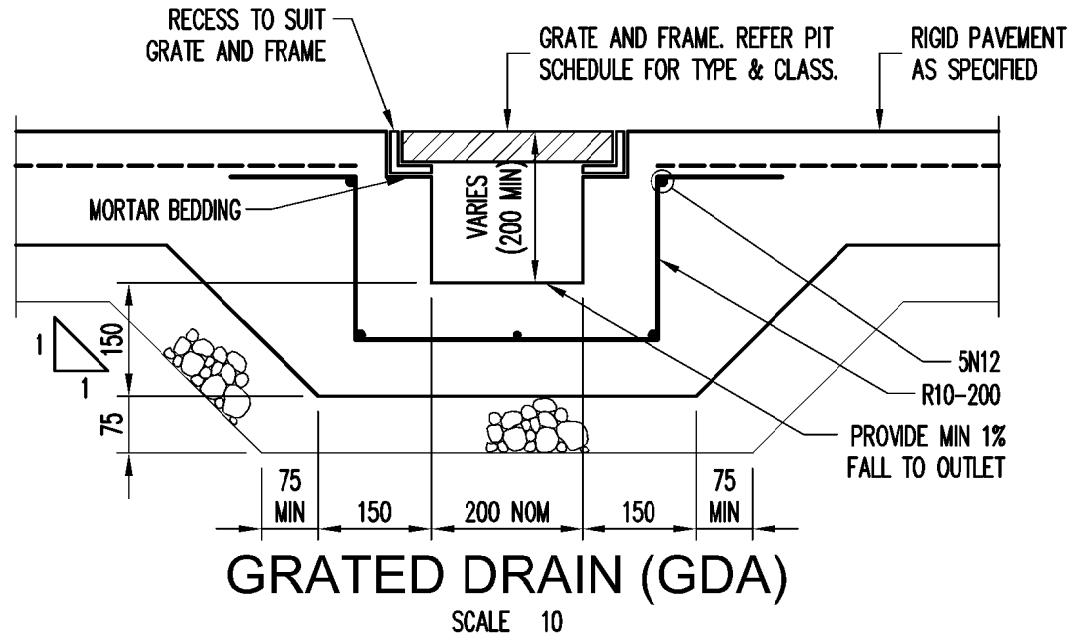
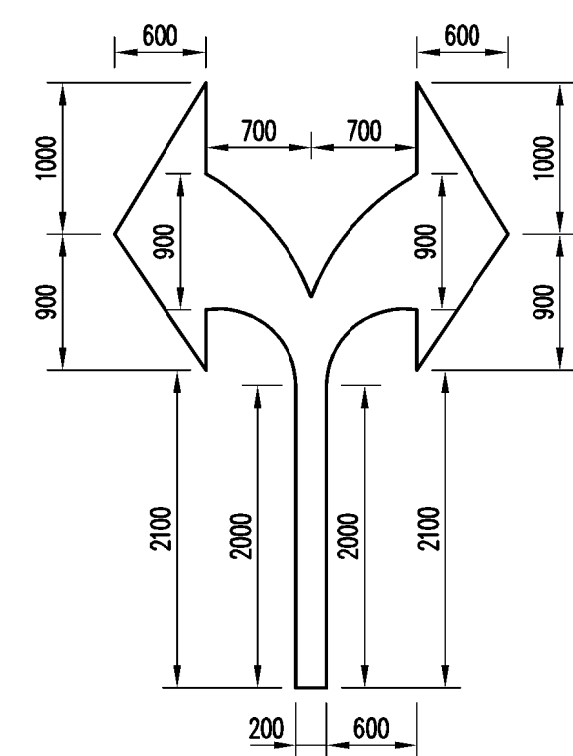
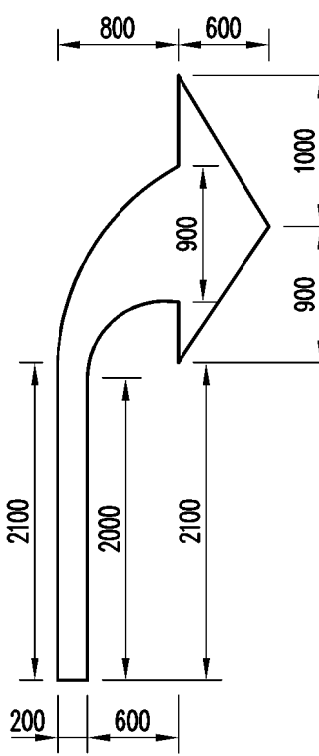
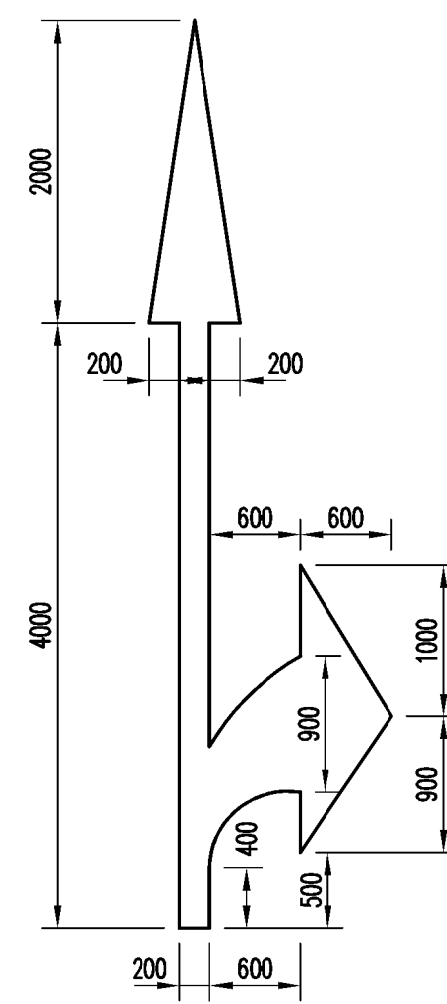
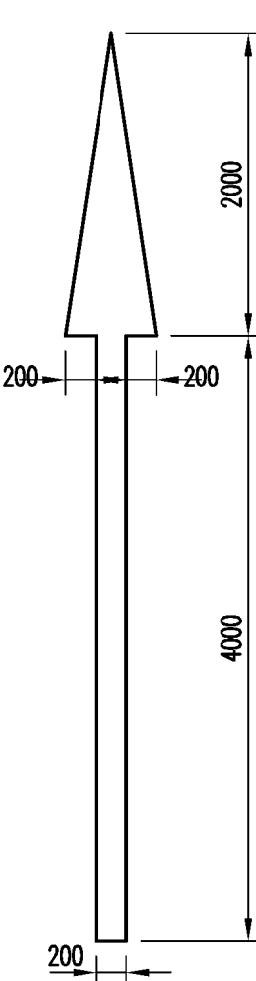
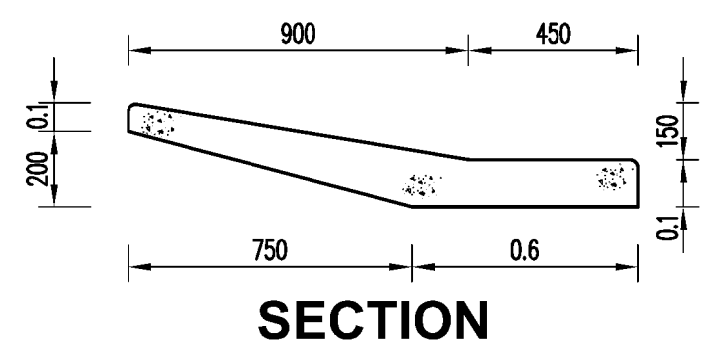
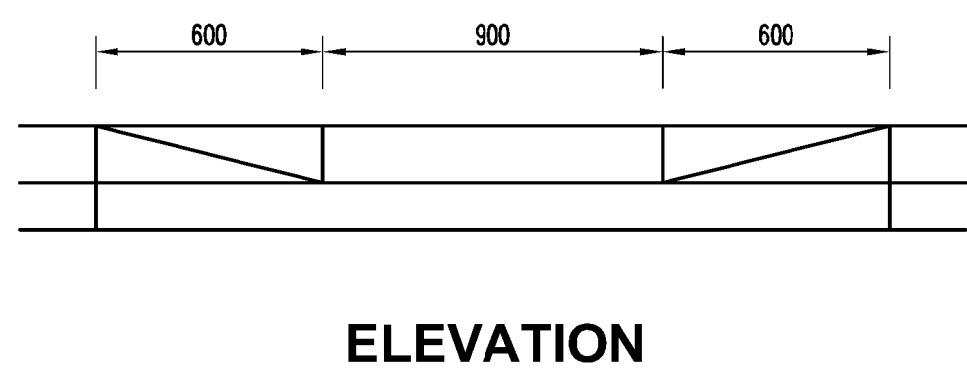
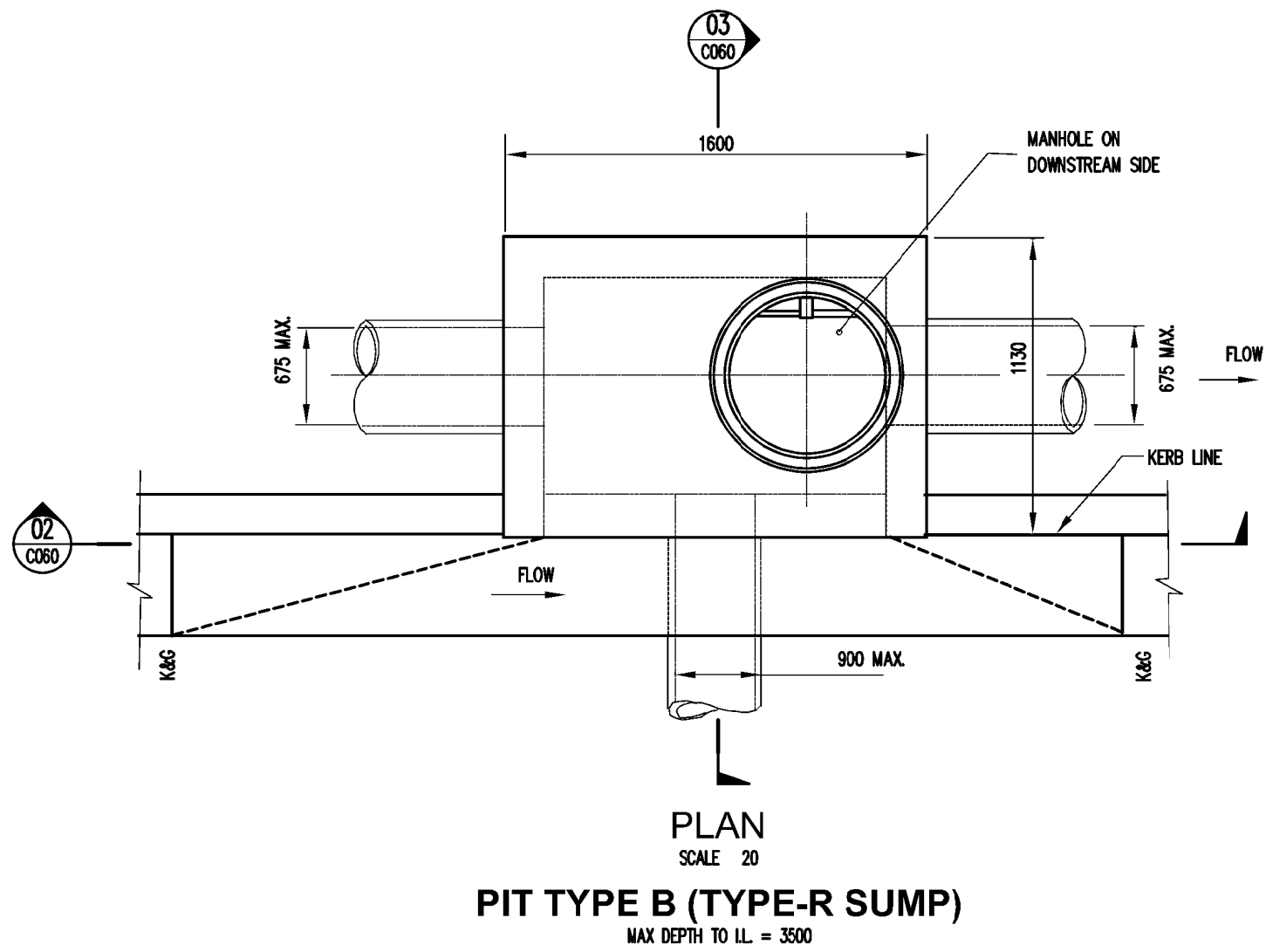
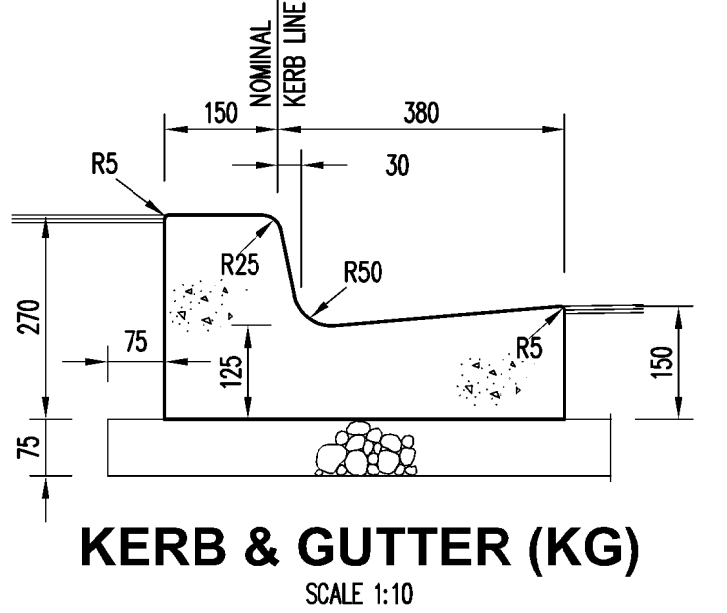
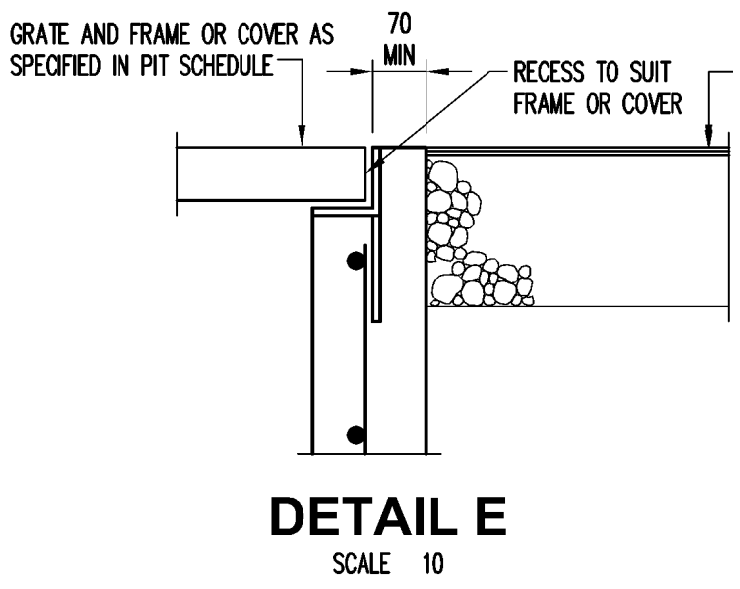
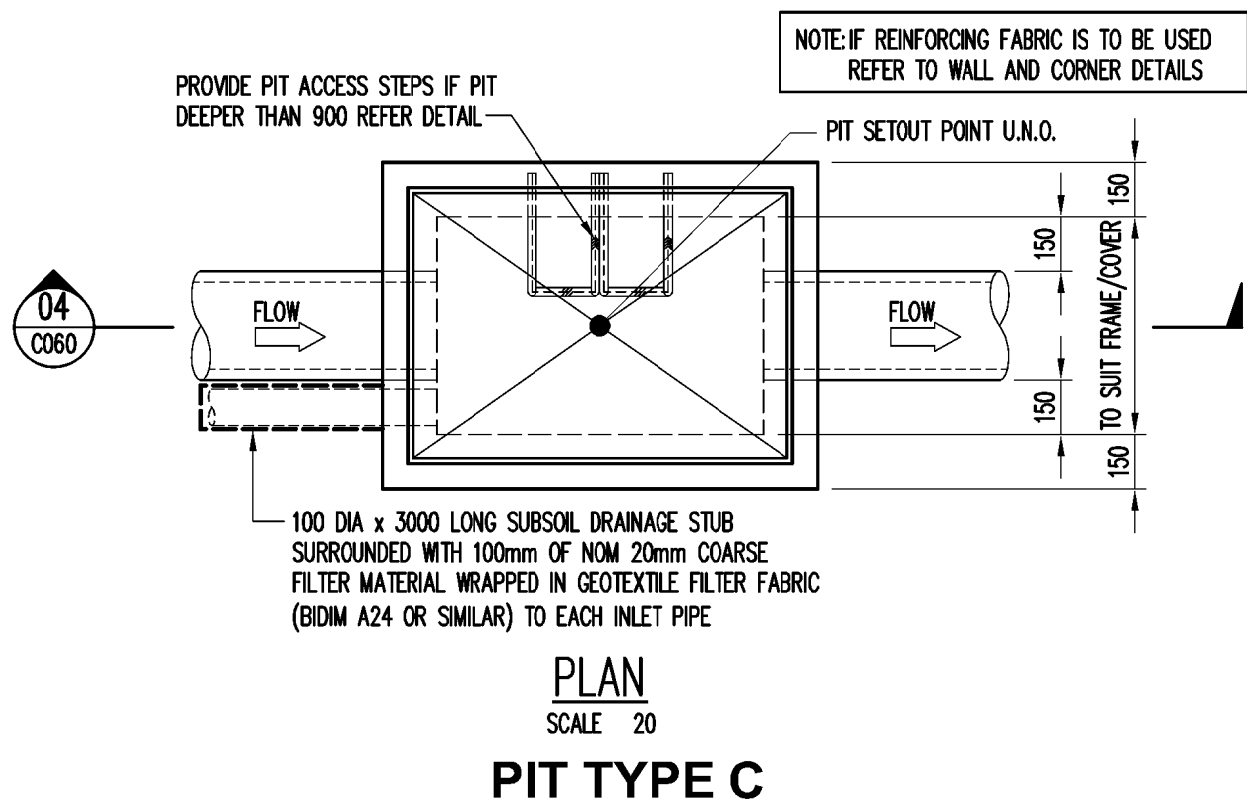
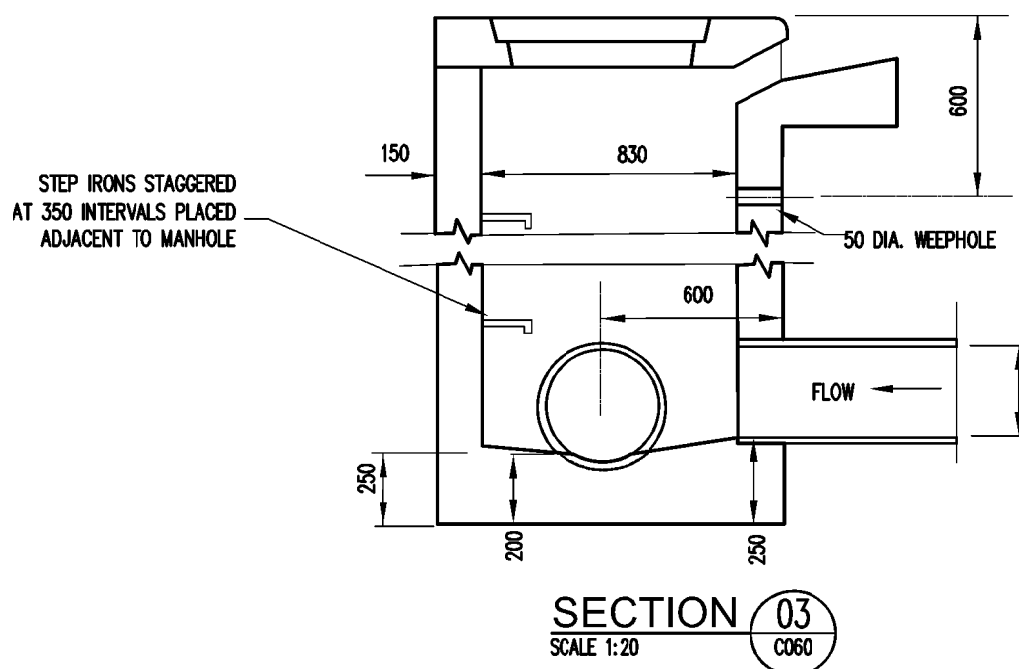
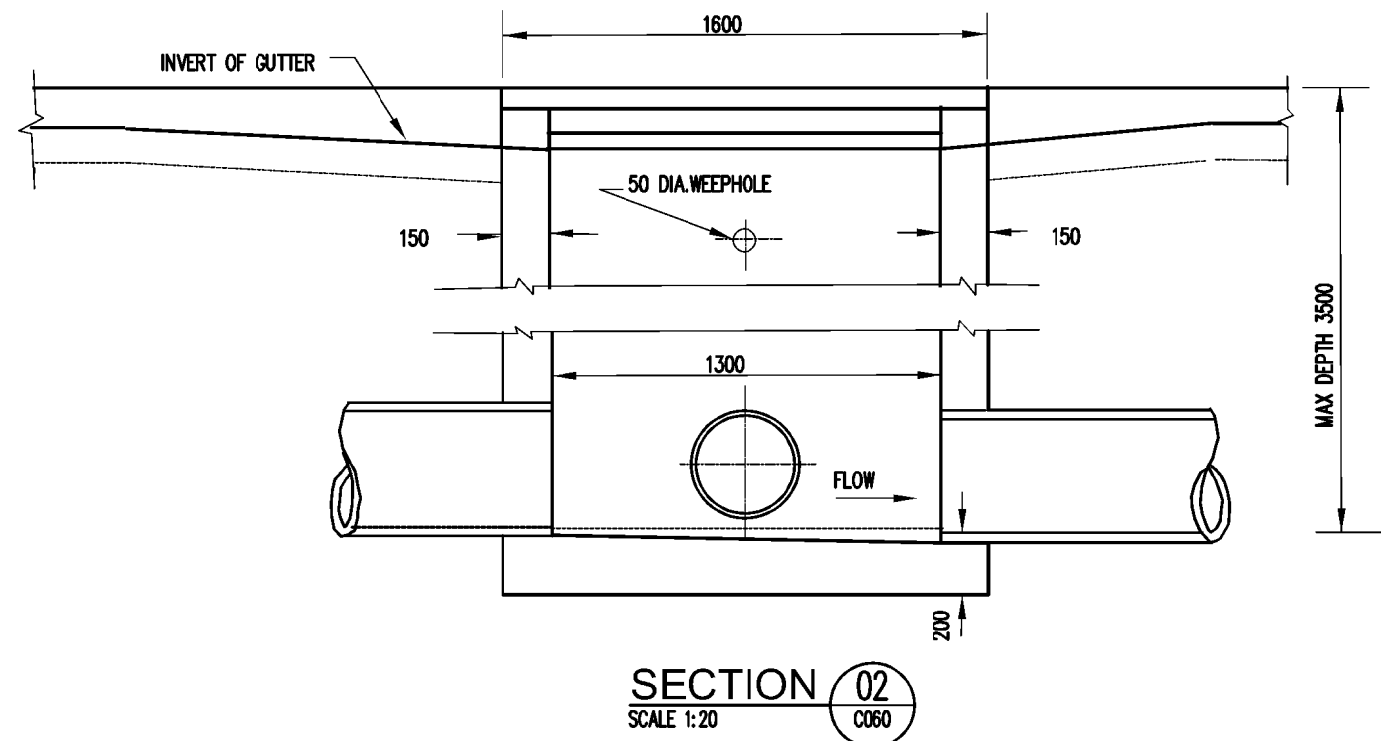
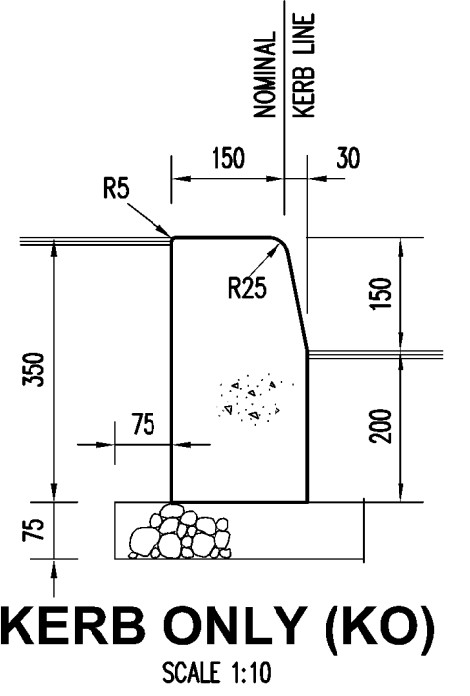
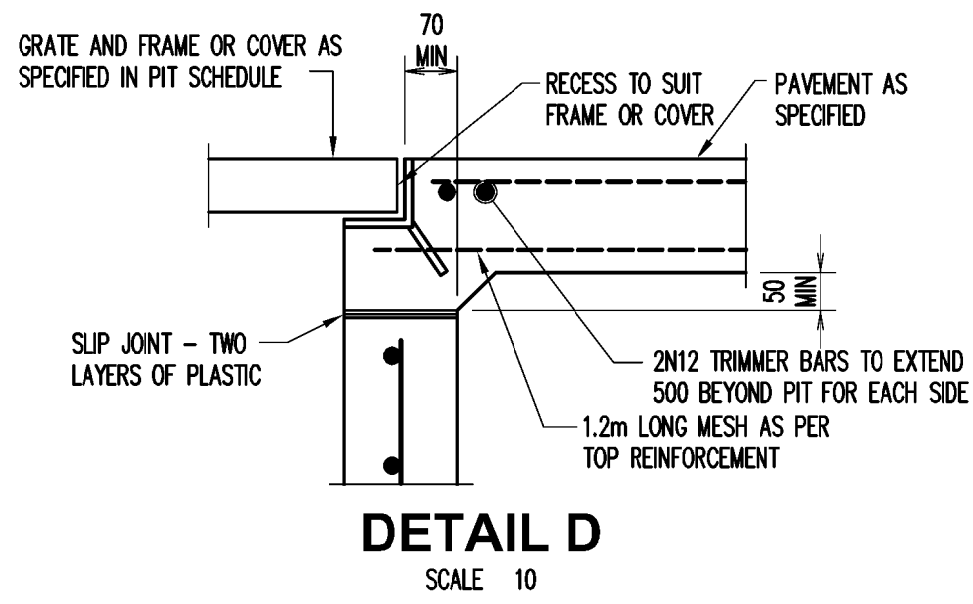
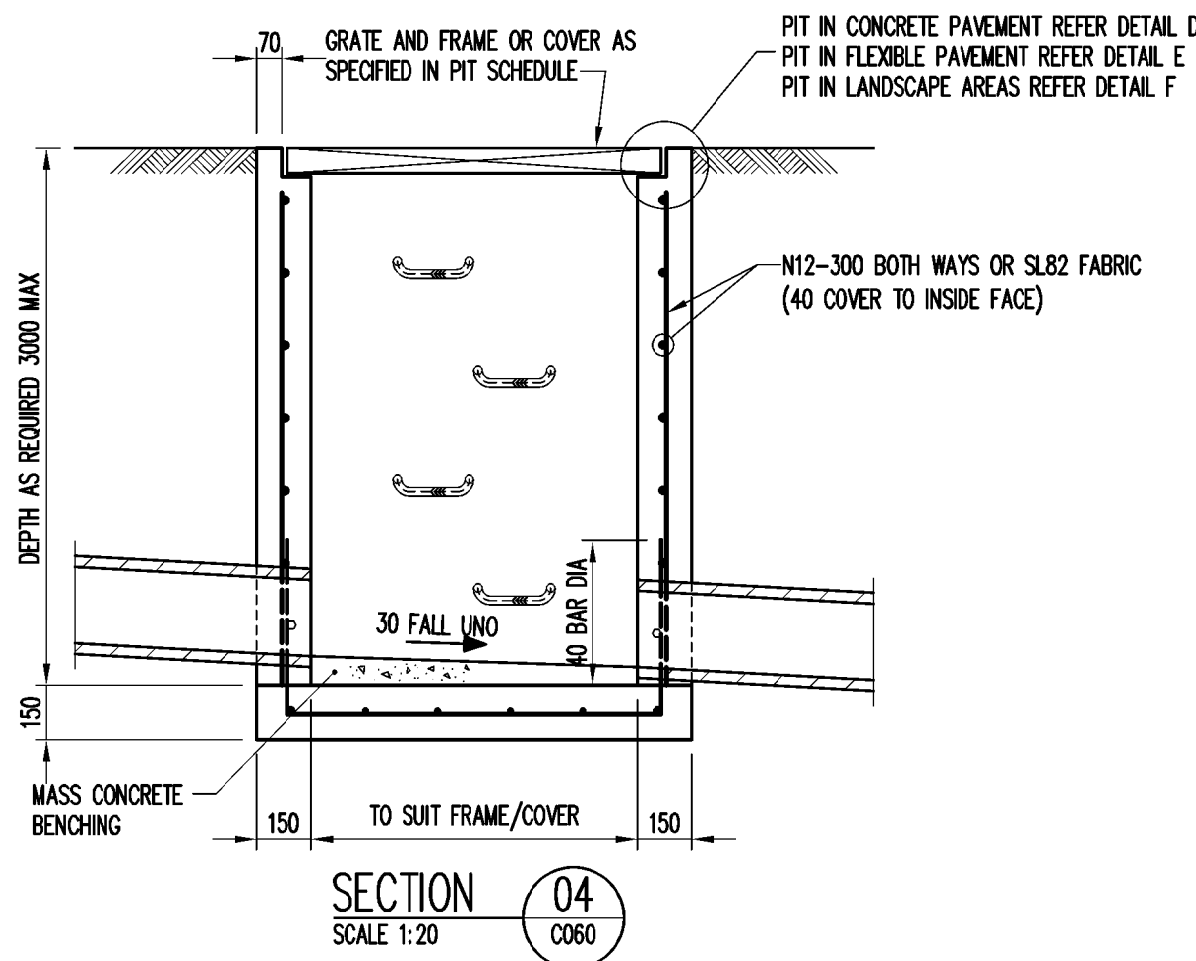
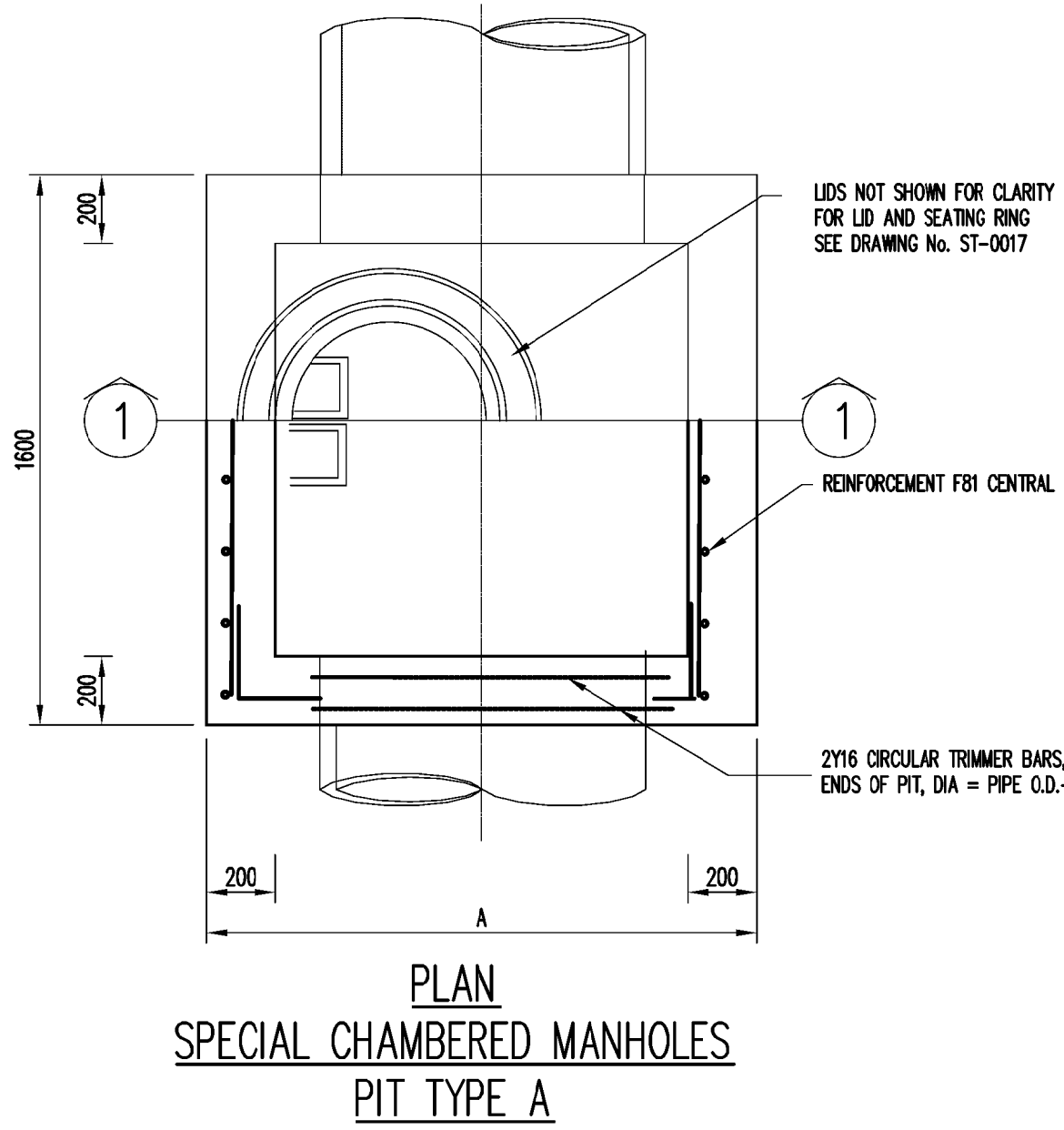
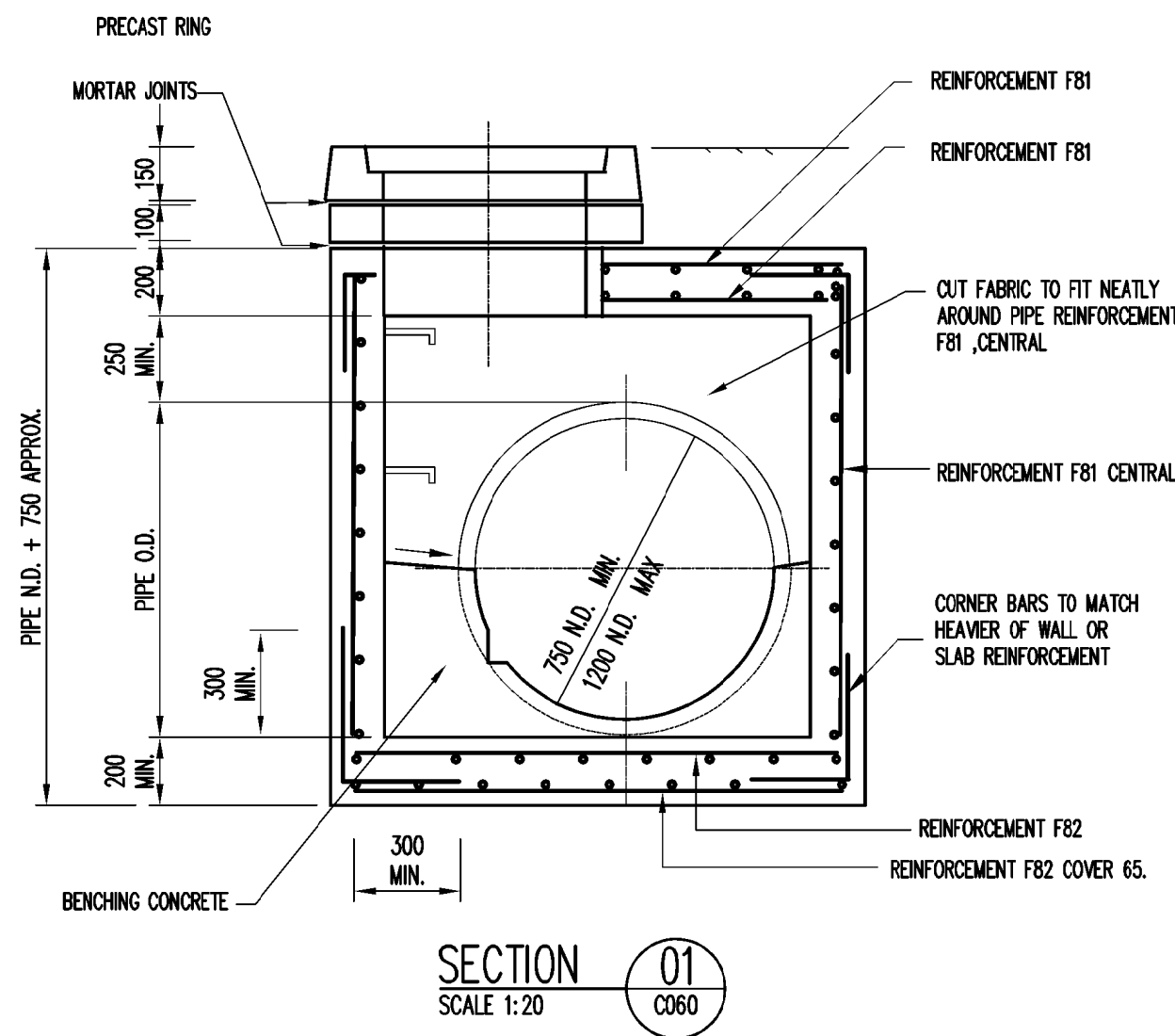
C050

Revision

E

Plot File Created: Dec 10, 2019 - 3:30pm





STRAIGHT AHEAD ARROW  
SCALE 1:50

COMBINED ARROW  
SCALE 1:50

TURNED ARROW  
SCALE 1:50

DOUBLE TURNED ARROW  
SCALE 1:50

Pathology: C060.dwg - User: mhuay - Plot File Created: Dec 10, 2019 - 3:23pm

A1 ..... 2 1 2 3 4 5 6 7 8 9 10

			Architect		
			Civil Engineer		
			Project		
			QPRC HEAD OFFICE		
			Sheet Subject		
			SITE WORKS DETAILS		
			Scale : A1		
			AS SHOWN		
			Job No		
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			C060		
			Revision		
			B		
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PRELIMINARY



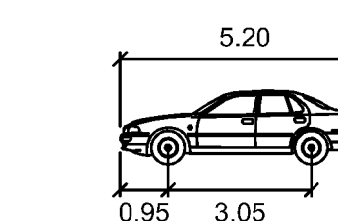
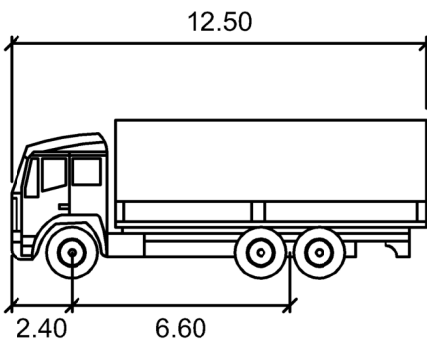
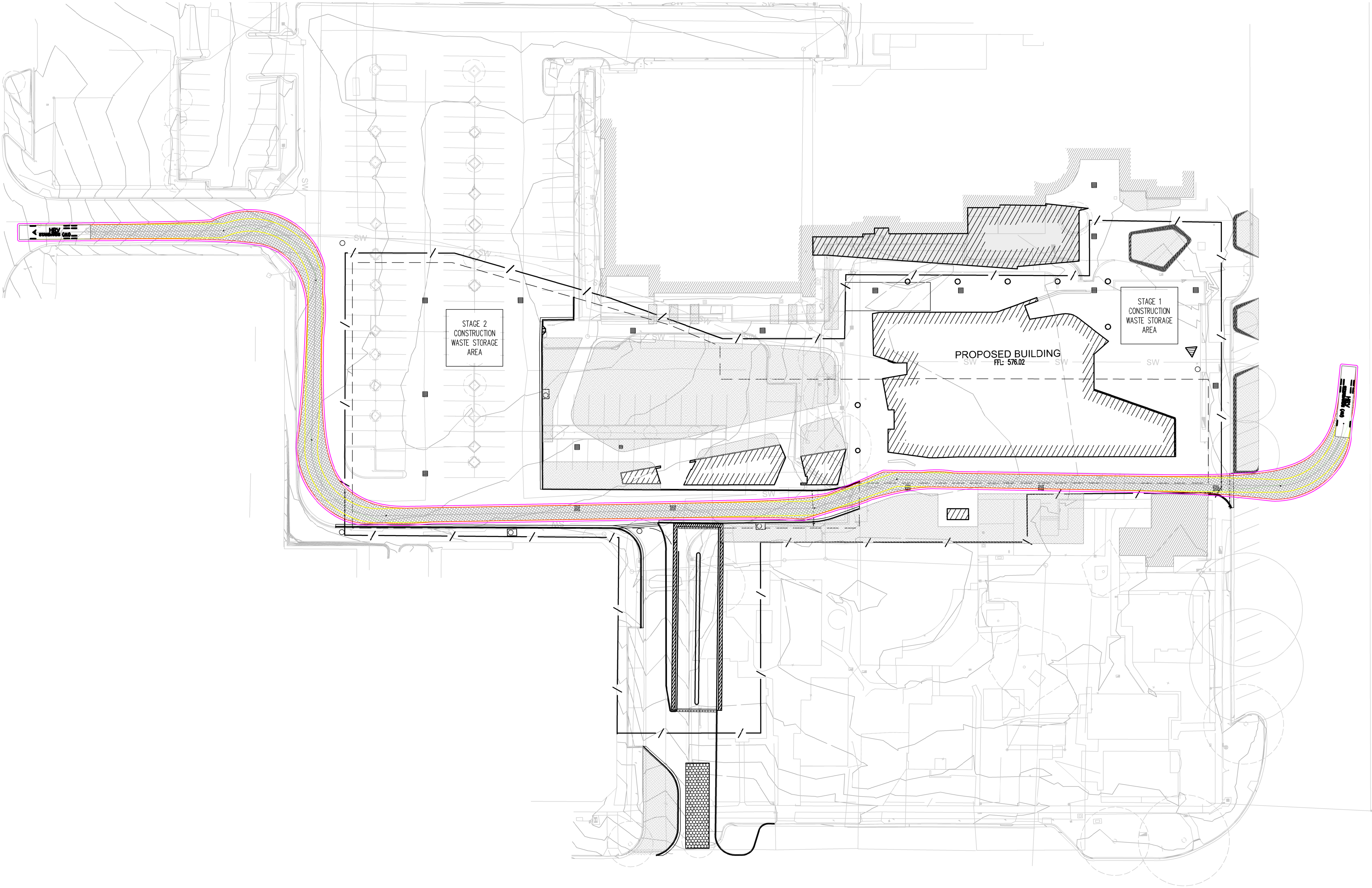


Diagram illustrating the vehicle body and wheel paths on a curved track. The diagram shows the vehicle body, front wheel path, rear wheel path, and a 300mm side clearance. The track is labeled with 'B99 STANDARDS 2003 (AU, NZ)' and 'B99 STANDARDS 2004 (AU, NZ)'.



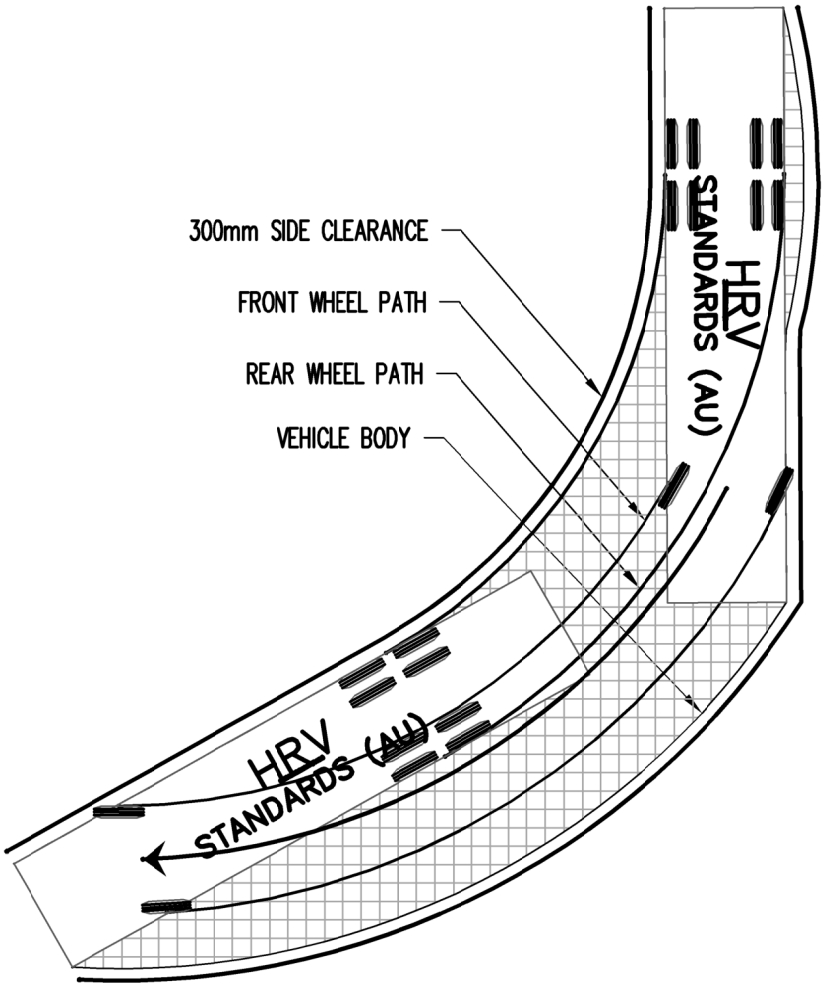
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Job No	Drawing No	Revision
179094	C080	B
Plot File Created: Dec 10, 2019 - 3:23pm		





HRV

Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 35.2



TURNING VEHICLE DEMONSTRATION - HRV 12.5m  
SCALE 1:400



**PRELIMINARY**

Filename: C082.dwg - User: Administrator - Plot File Created: May 04, 2020 - 8:34pm

A1 0 1 2 3 4 5 6 7 8 9 10

A ISSUE FOR INFORMATION			CP	EM	04.05.20						
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description

Architect

Civil Engineer

**TTW** Taylor Thomson Whitting

Project

QPRC HEAD OFFICE

Sheet Subject

TURNING VEHICLE DEMONSTRATION - HRV 12.5m

Scale : A1 1:400	Drawn EM	Authorized
Job No 179094	Drawing No C082	Revision A
Plot File Created: May 04, 2020 - 8:34pm		