

TAREE POLICE STATION

CIVIL WORKS

GENERAL NOTES

- Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer.
- 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.
- 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 footprint.
- 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, the Contractor is to ensure that the drawings used for construction have been approved by all relevant authorities prior to commencement site.
- 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.
- 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
CRUX	SURVEY	121187-001	A	12.03.18
GROUP GSA	SITE PLAN	TAR-AR-DA100	A	11.05.18
	GROUND FLOOR PLAN	TAR-AR-DA200	A	11.05.18

PIT SCHEDULE			
Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets – C04 Final internal pit dimensions are to comply with AS3500			
Type	Description	Cover (Clear Opening)	Number
A	Kerb inlet pit 1800 lintel	450 x 900 Class D galvanised mild steel grate hinged to frame	2
B	Surface inlet pit	900 x 900 Class D galvanised mild steel grate hinged to frame	4,5,6,7,8,9,10,11,30
		600 x 600 Class B galvanised mild steel grate hinged to frame	21,22,23,24,31,32
C		900 x 900 Class B paver infill	20
D	GPT	Jellyfish filter water quality treatment	3
E		Existing pit to remain	1

STORMWATER DRAINAGE NOTES

- Stormwater Design Criteria :
 - Average exceedance probability –
1% AEP for roof drainage to first external pit
5% AEP for paved and landscaped areas
 - Rainfall intensities –
Time of concentration: 5 minutes
1% AEP = 302 mm/hr
5% AEP = 222 mm/hr
 - Rainfall losses –
Impervious areas: IL = 1.5 mm , CL = 0 mm/hr
Pervious areas: IL =24.5 mm , CL = 2.5 mm/hr
- Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O.
- Pipes up to 300 dia shall be sewer grade uPVC with solvent welded joints.
- Equivalent strength VCP or FRP pipes may be used subject to approval.
- Precast pits may be used external to the building subject to approval by Engineer.
- Enterers, connections and junctions to 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.
- Grates and covers shall conform with AS 3996-2006, and AS 1428.1 for access requirements.
- Pipes are to be installed in accordance with AS 3725. All bedding to be type H2 U.N.O.
- Care is to be taken with levels of stormwater lines. Grades shown are not to be reduced without approval.
- All stormwater pipes to be 150 dia at 1.0% min fall U.N.O.
- Subsoil drains to be slotted flexible uPVC U.N.O.
- Adopt invert levels for pipe installation (grades shown are only nominal).

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.
- Broomed finished to all ramped and vehicular crossings, all other kerbing or dish drains to be steel float finished.
- 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 are shown.

CONCRETE FINISHING NOTES

- All exposed concrete pavements are to be broomed finished.
- 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.
- Carborundum to be added to all stair treads and ramped crossings U.N.O.

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : PM13774 RL6.574
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system : MGA
Survey prepared by : CRUX
Setout Points : CONTACT THE SURVEYOR

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 whatsoever.

UNDERGROUND SERVICES - WARNING

The locations of underground services shown on Taylor Thomson 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 installation may not reflect changes in the physical environment subsequent to installation.

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.

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.

BOUNDARY AND EASEMENT NOTE

The property boundary and easement locations shown on Taylor Thomson Whitting drawing's have been based from information received from : **CRUX**

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.

EXISTING SERVICES LEGEND

— S — — S — — Existing sewer
— W — — W — — Existing water
— EU — — EU — — Existing underground electrical
— EA — — EA — — Existing aerial electrical
— T — — T — — Existing communications
— G — — G — — Existing gas
— SW — — SW — — Existing stormwater

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 structure(s).

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. All 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 (JK Geotechnics Ref:31340Prpt) for details.

HAZARDOUS MATERIALS

Existing asbestos products & contaminated material may be present on site. Contractor to ensure all hazardous materials are identified prior to commencing works. Safe working practices as per relevant authority to be adopted and appropriate PPE to be used when handling all hazardous materials. Refer to geotechnical/environmental report by (JK Geotechnics Ref:31340Prpt) 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 works.

WATER POLLUTION

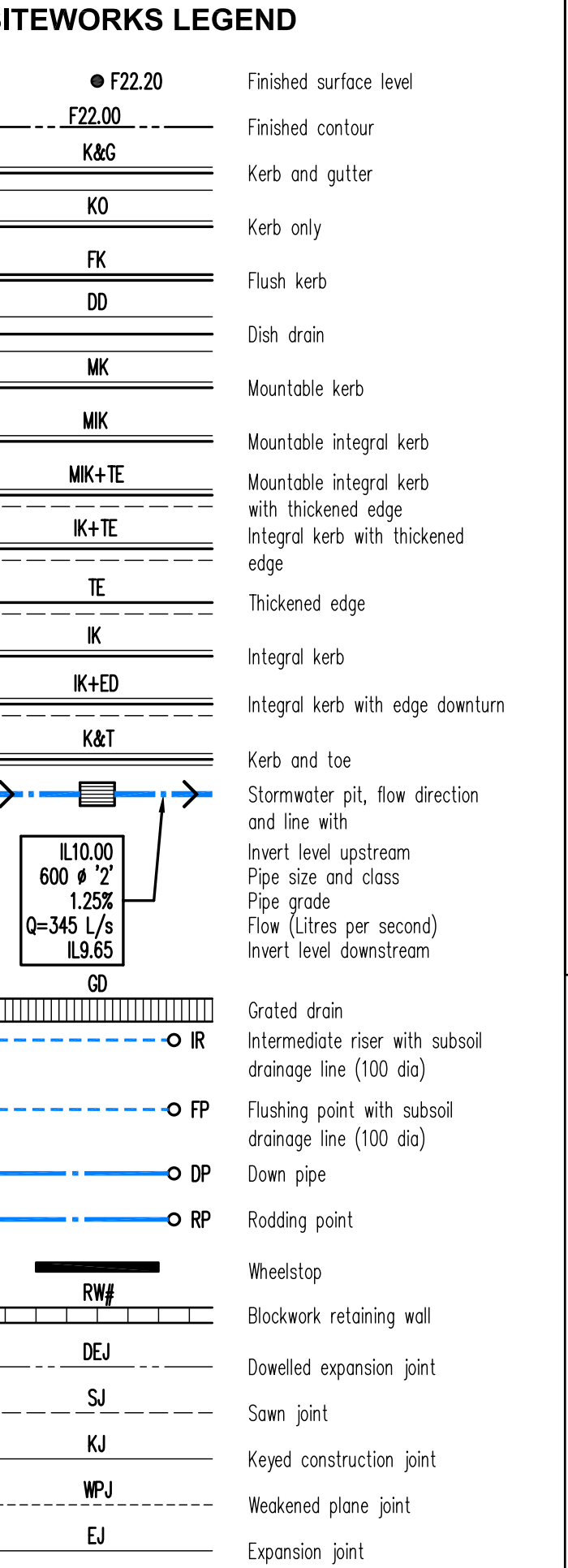
Contractor to ensure appropriate measures are taken to prevent pollutants from construction works contaminating the surrounding environment.

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

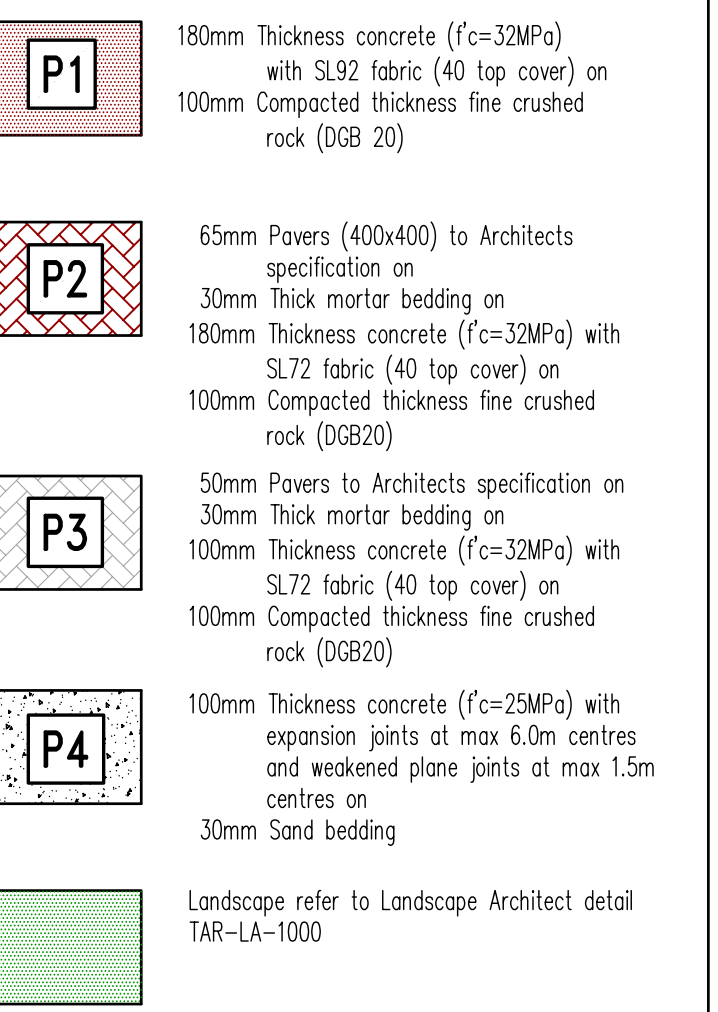
Contractor to supply and comply with traffic management plan and provide adequate site traffic control including a certified traffic marshal to supervise vehicle movements where necessary.



PAVEMENT LEGEND

NOTES

- Asphaltic concrete shall conform to AS2150 and the specification
- Pavement based on geotechnical report by JK Geotechnics



DRAWING SCHEDULE	
DRAWING NO.	DRAWING NAME
C01	NOTES AND LEGENDS SHEET
C02	EROSION AND SEDIMENT CONTROL PLAN
C03	SITeworks & STORMWATER PLAN
C04	DETAILS SHEET 1
C05	DETAILS SHEET 2
C06	TURNING PATH SHEET 1
C07	TURNING PATH SHEET 2
C08	TURNING PATH SHEET 3

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P1	ISSUE FOR DA	15.05.18	NH
P2	ISSUE FOR DA	17.05.18	NH

Client



Project Manager



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Project

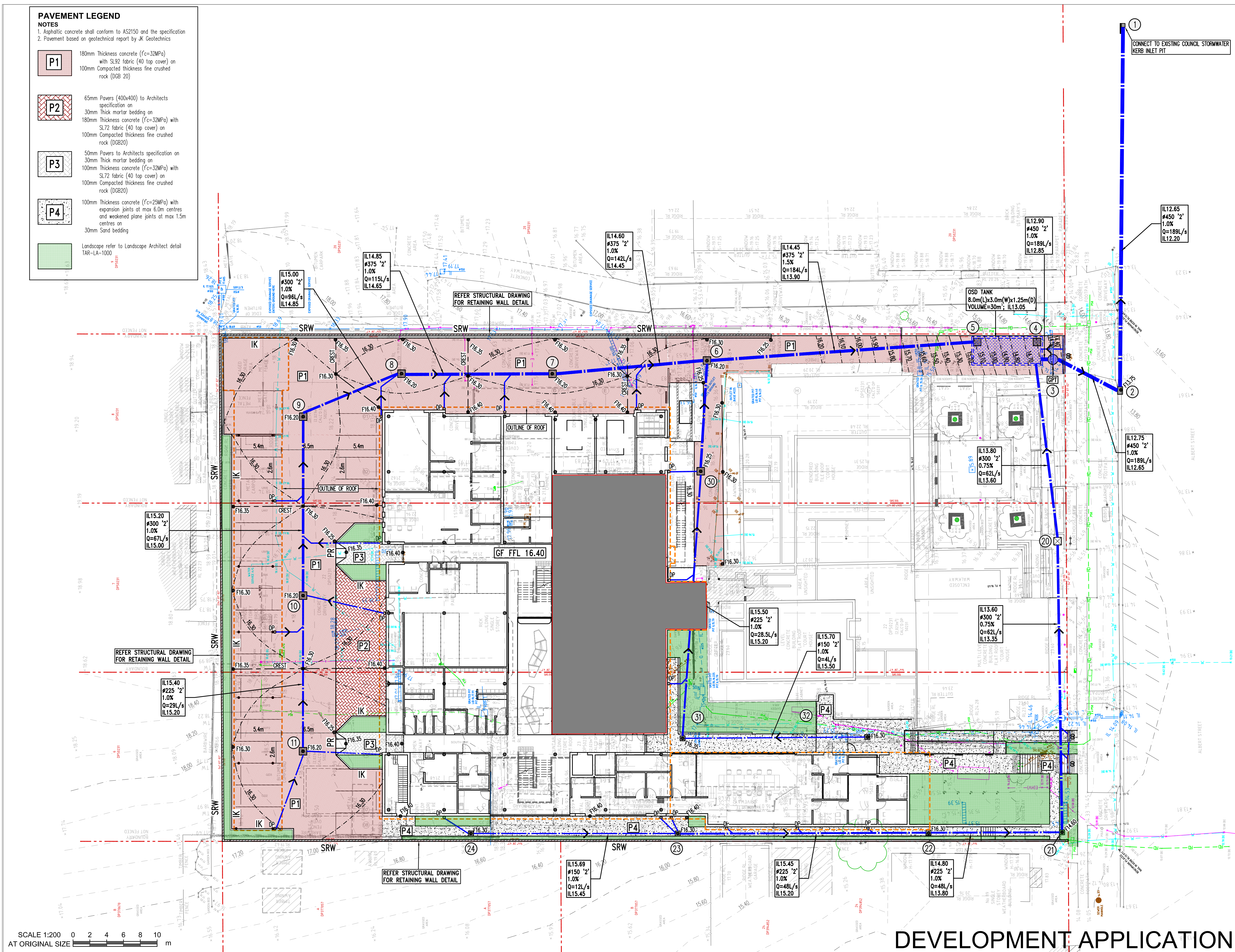
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TAREE POLICE STATION				
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Phase	Scale	Plot Date	Drawn	Chk
DA	NTS@A1		WW	NH
TTW Proj. No	Drawing No	Revision		
181159	C01	P2		

PAVEMENT LEGEND

- NOTES
1. Asphaltic concrete shall conform to AS2150 and the specification
2. Pavement based on geotechnical report by JK Geotechnics

P1	180mm Thickness concrete (f _c =32MPa) with SL92 fabric (40 top cover) on 100mm Compacted thickness fine crushed rock (DGB 20)
P2	65mm Pavers (400x400) to Architects specification on 30mm Thick mortar bedding on 180mm Thickness concrete (f _c =32MPa) with SL72 fabric (40 top cover) on 100mm Compacted thickness fine crushed rock (DGB20)
P3	50mm Pavers to Architects specification on 30mm Thick mortar bedding on 100mm Thickness concrete (f _c =32MPa) with SL72 fabric (40 top cover) on 100mm Compacted thickness fine crushed rock (DGB20)
P4	100mm Thickness concrete (f _c =25MPa) with expansion joints at max 6.0m centres and weakened plane joints at max 1.5m centres on 30mm Sand bedding

Landscape refer to Landscape Architect detail TAR-LA-1000



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P1	ISSUE FOR DA	15.05.18	NH
P2	ISSUE FOR DA	17.05.18	NH

Client
NSW Government
NSW Police Force

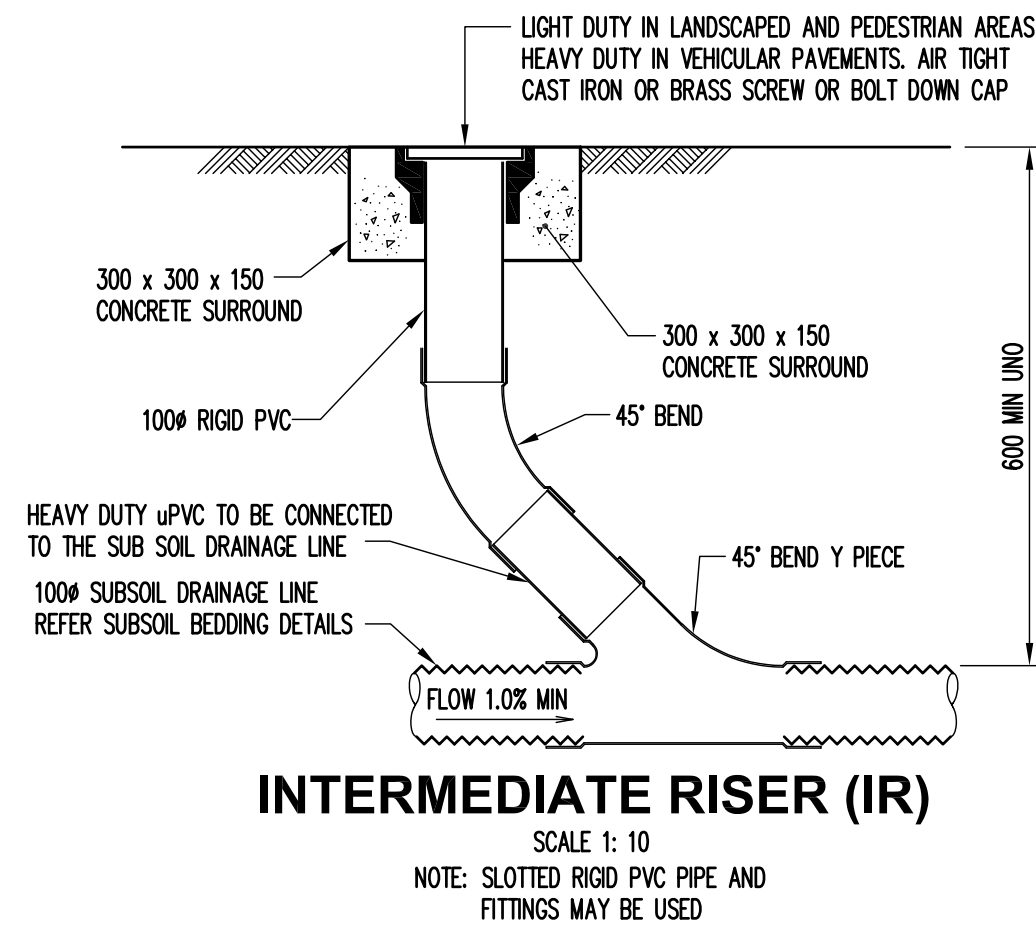
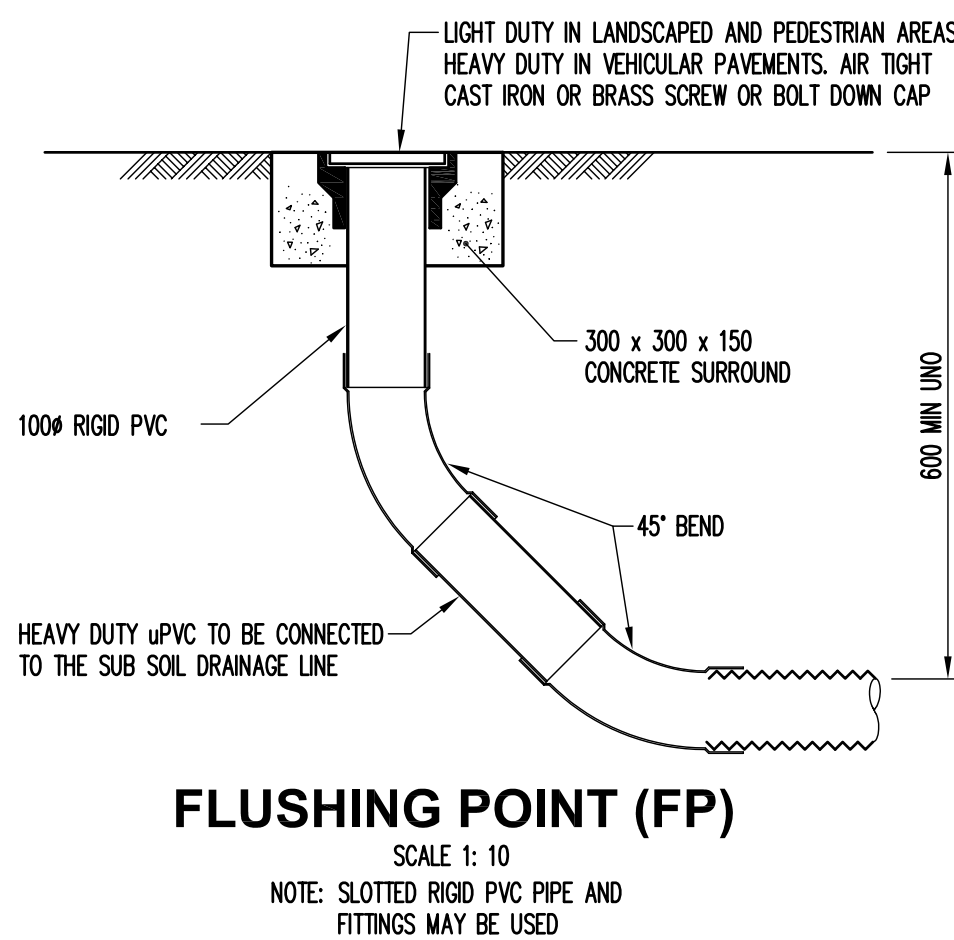
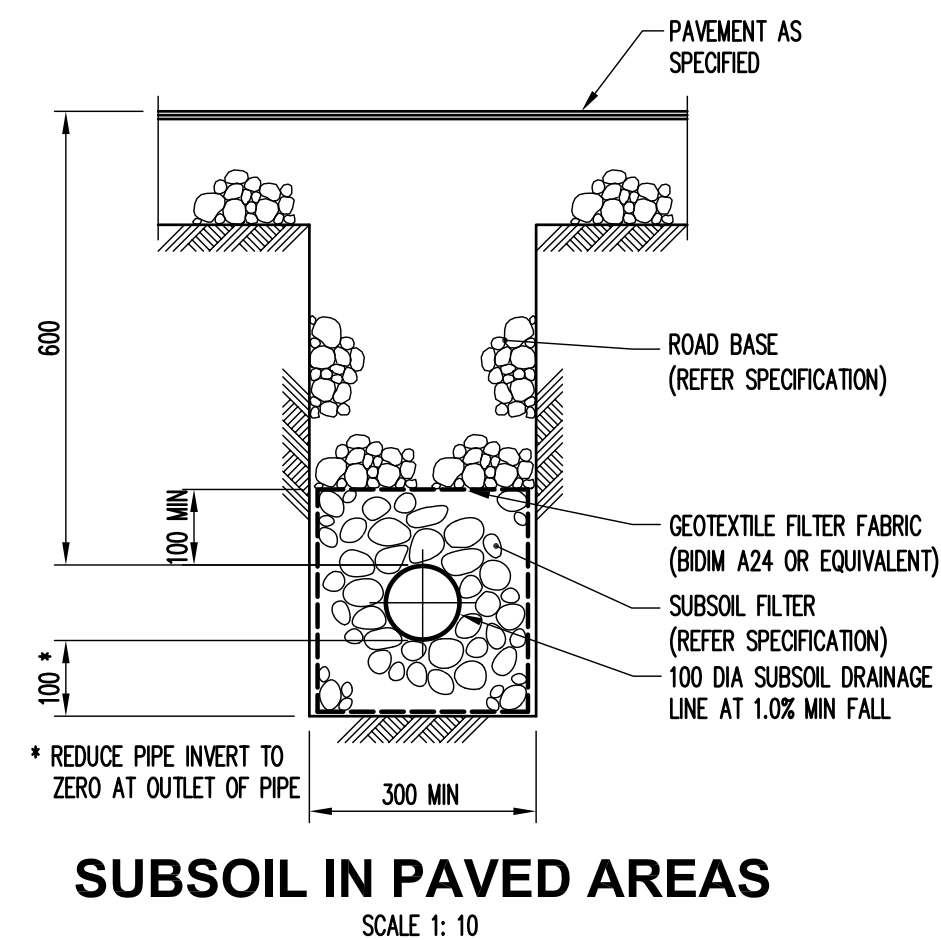
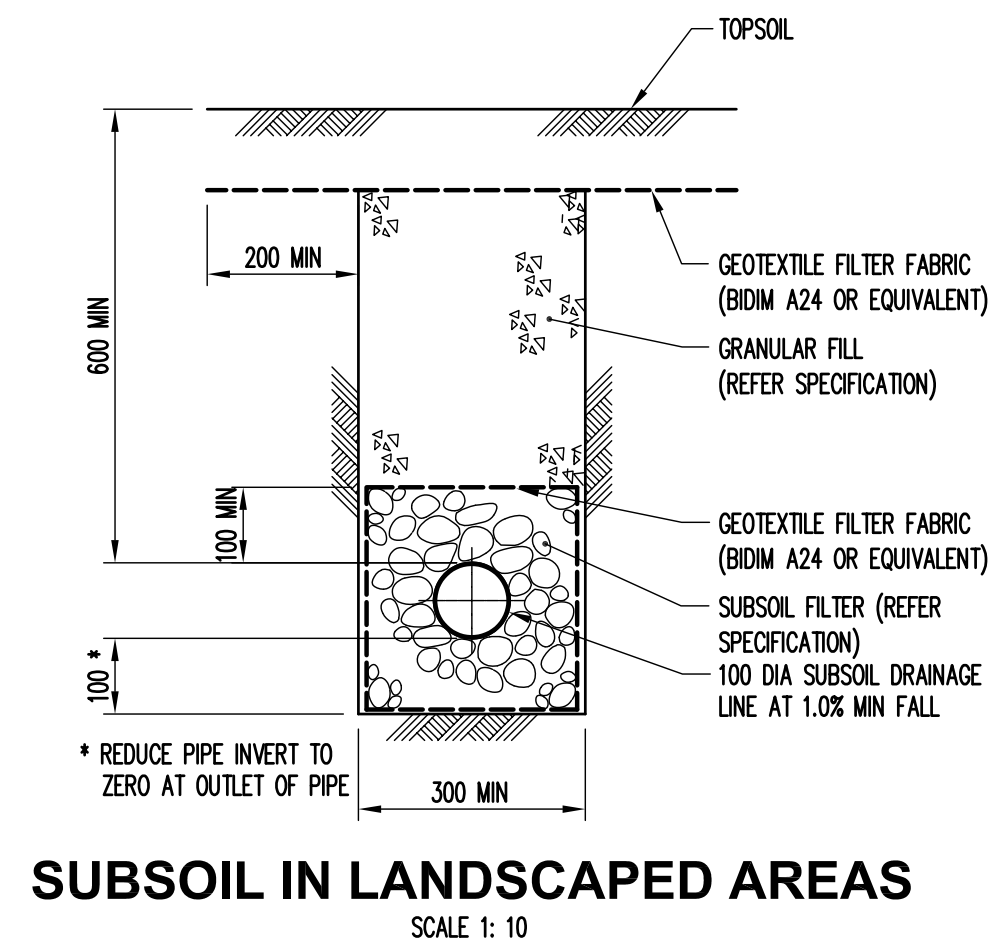
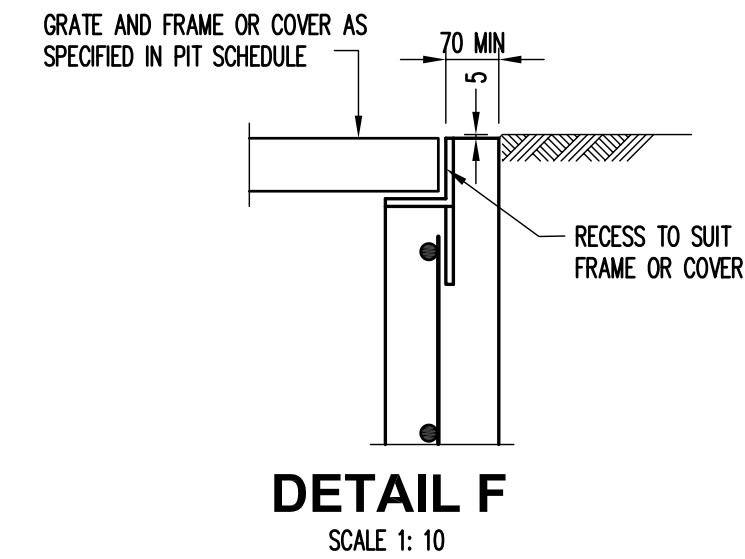
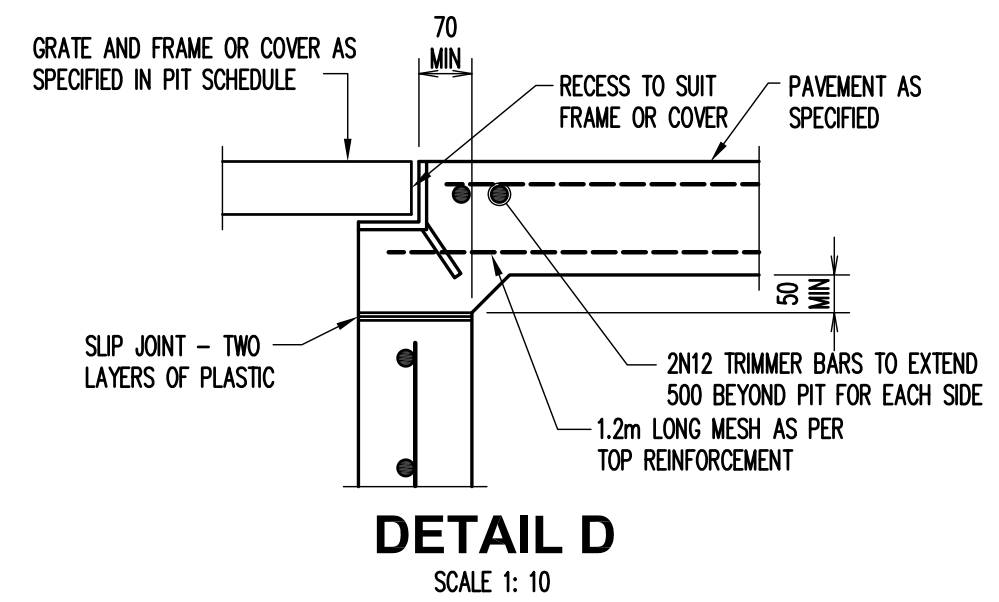
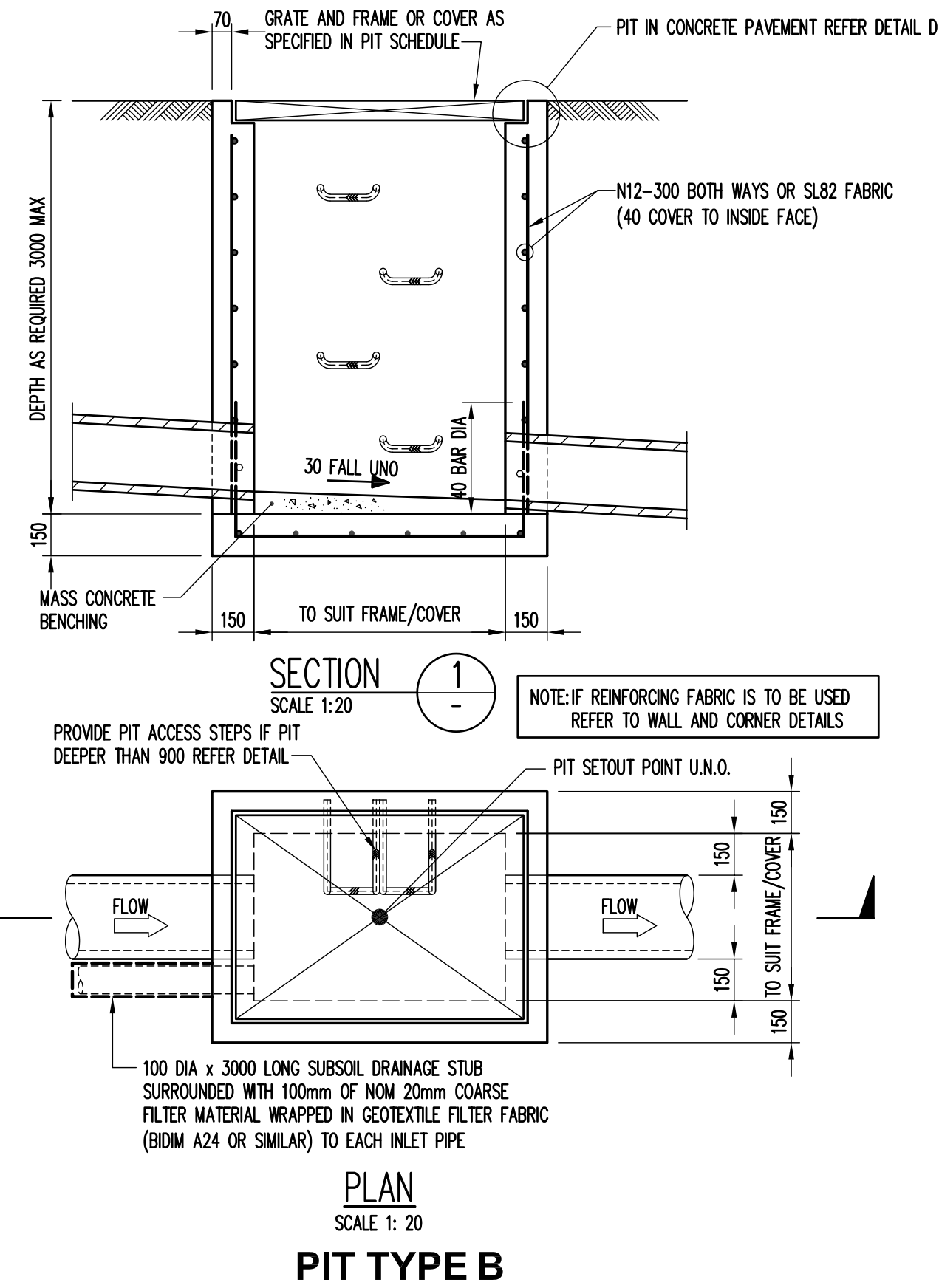
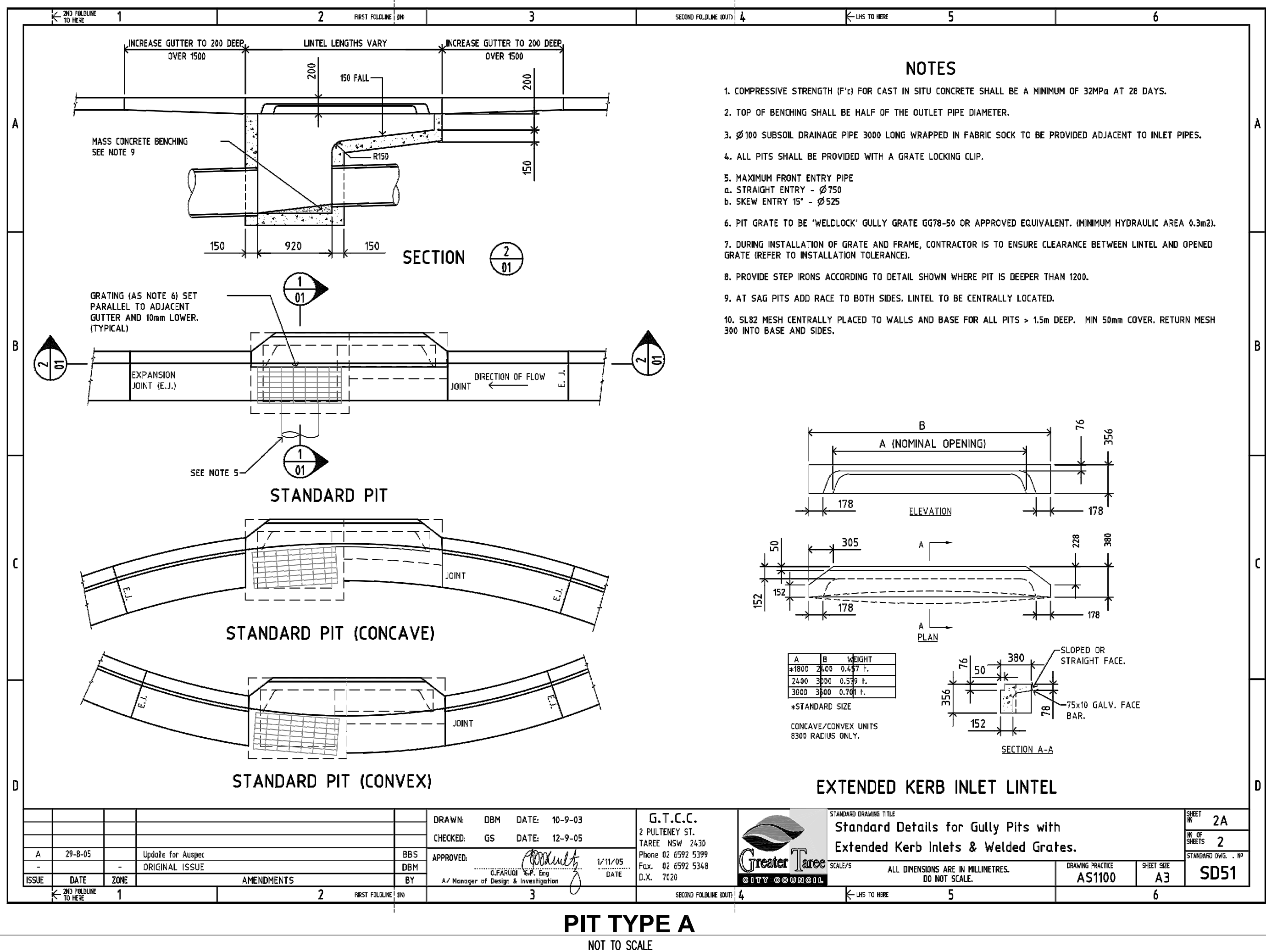
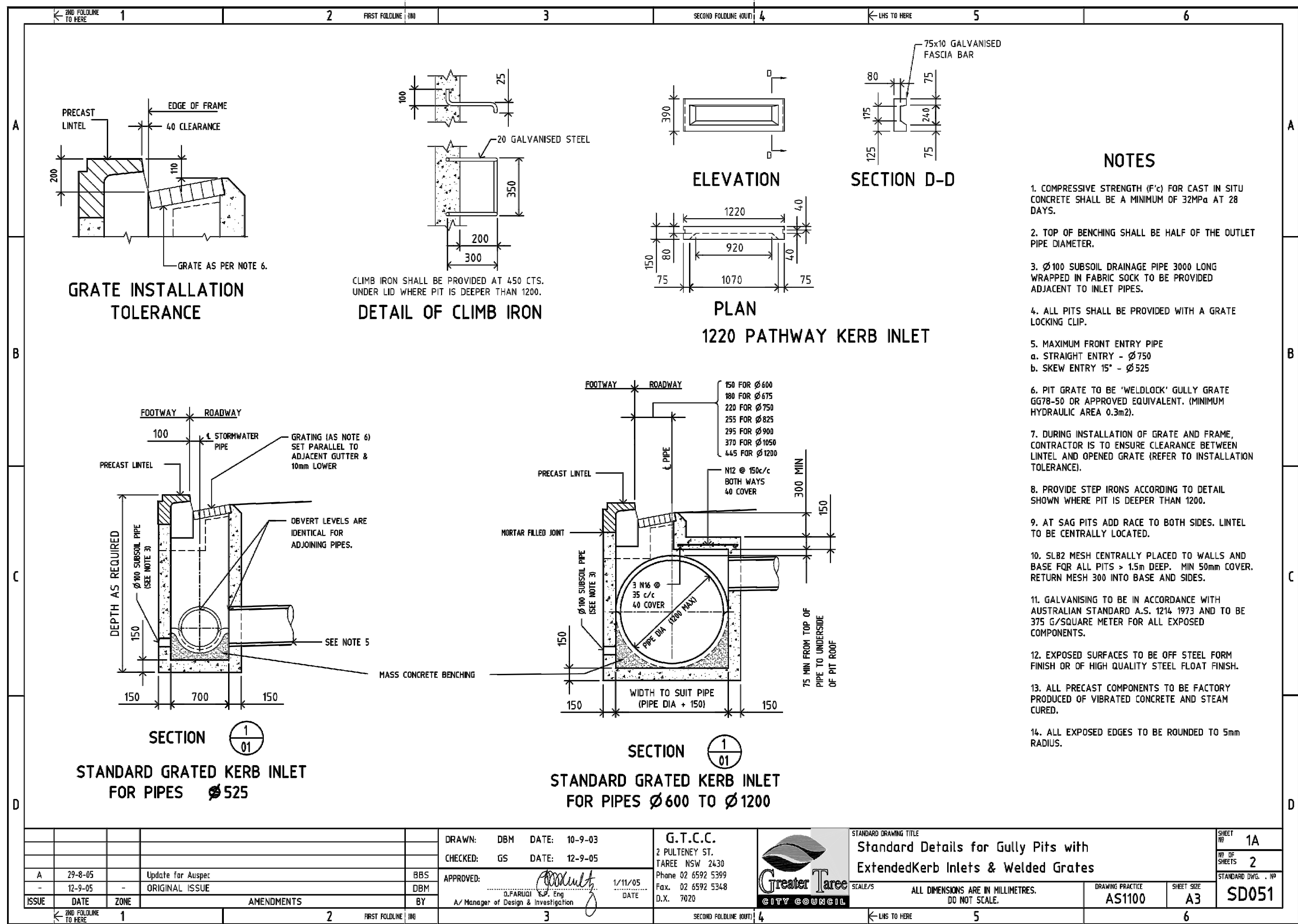
Project Manager
BGIS

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Project
TAREE POLICE STATION

Location	83 ALBERT STREET, TAREE
Asset	TAREE POLICE STATION
Drawing Title	SITWORKS & STORMWATER PLAN
Phase	DA
Scale	1:200@A1
Plot Date	
Drawn	WW
Chk	NH
TTW Proj. No	181159
Drawing No	C03
Revision	P2

DEVELOPMENT APPLICATION

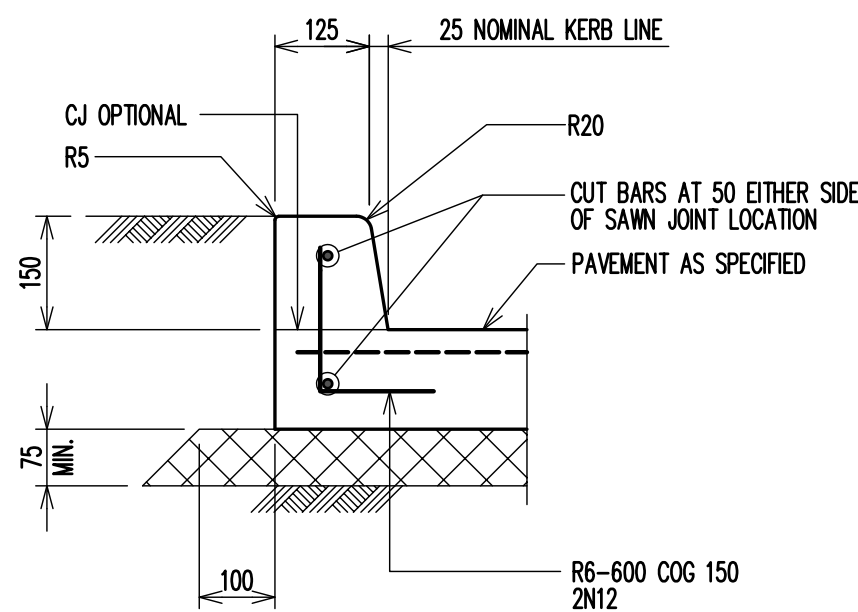


DEVELOPMENT APPLICATION

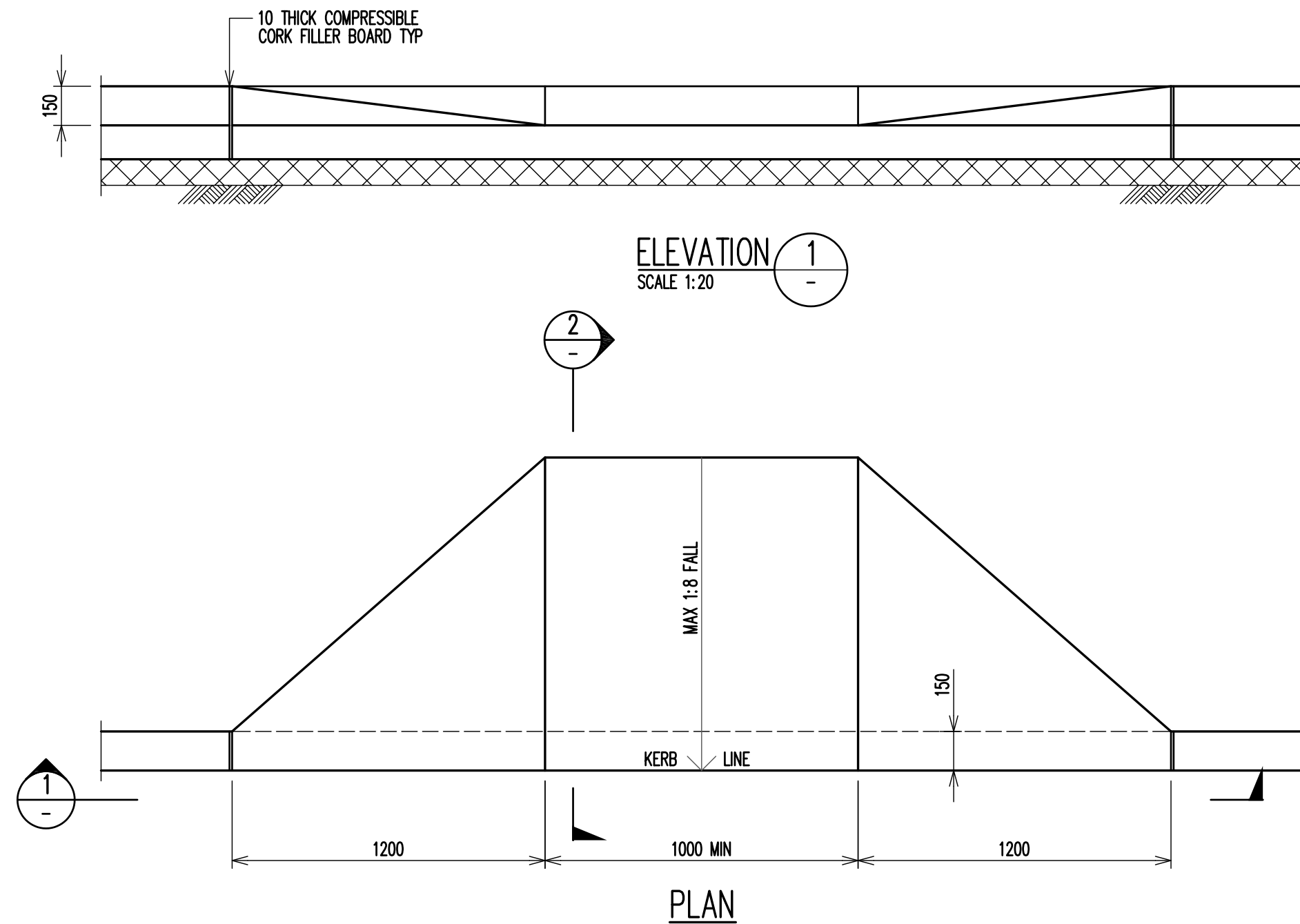
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P2	ISSUE FOR DA	17.05.18	NH

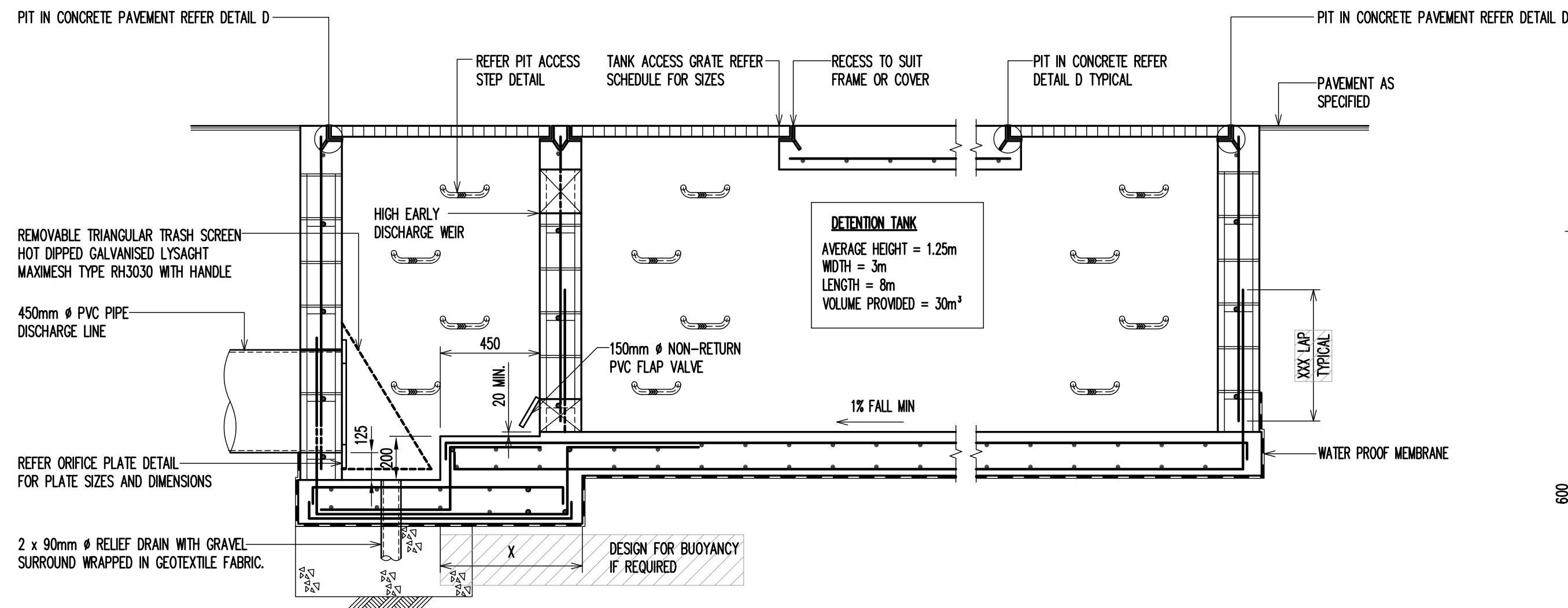
Client	NSW GOVERNMENT	NSW Police Force
Project Manager	BGIS	
Architect	GROUP GSA	
Group GSA Pty Ltd	ABN 76 002 113 779	
Level 7, 80 William St East Sydney NSW	T +612 9361 4144	www.groupgsa.com
Client	TTW Taylor Thomson Whitting	
612 9439 7288 48 Chandos Street St Leonards NSW 2065	Project	
TAREE POLICE STATION		
Location		
83 ALBERT STREET, TAREE		
Asset		
TAREE POLICE STATION		
Drawing Title		
DETAILS SHEET 1		
Phase	Scale	Plot Date
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TTW Proj. No	Drawing No	Revision
181159	C04	P2



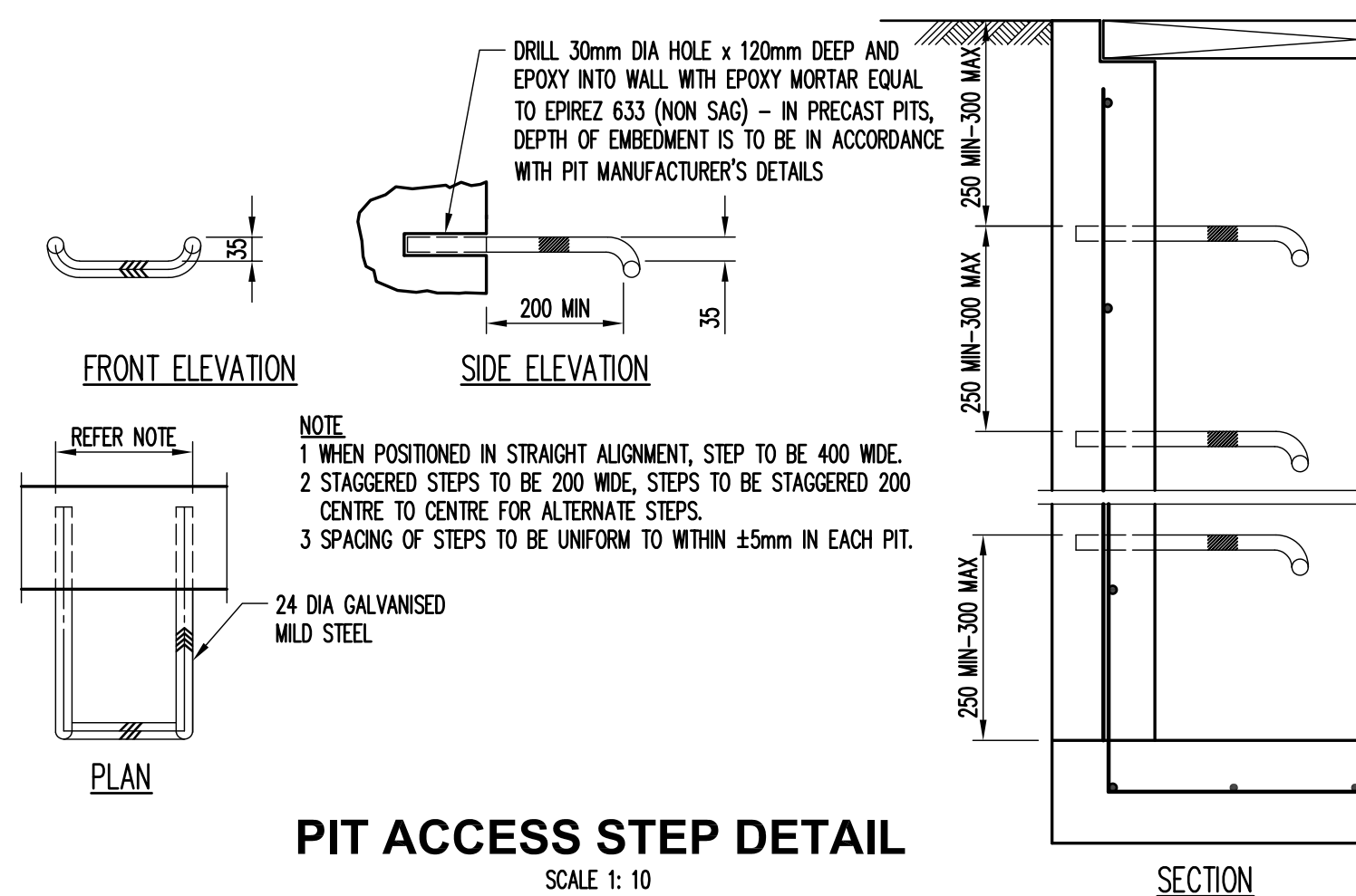
INTEGRAL KERB (IK)
SCALE 1:10



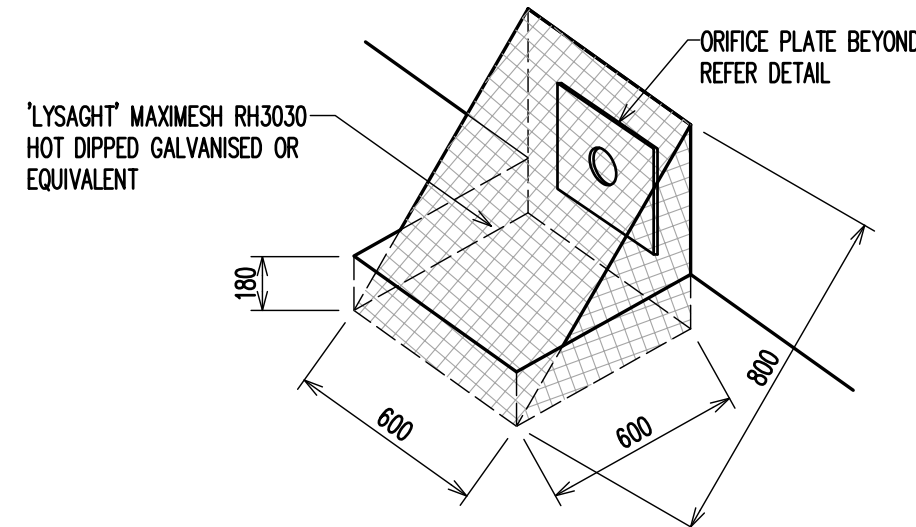
RAMPED CROSSING
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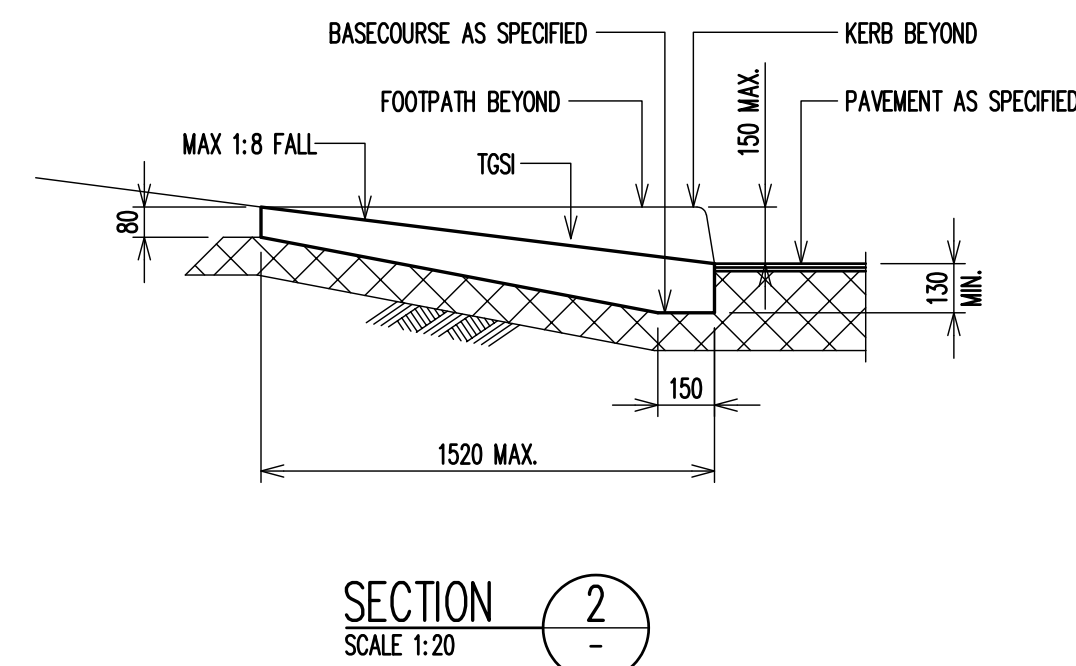
SECTION THROUGH DETENTION TANK
SCALE 1:20



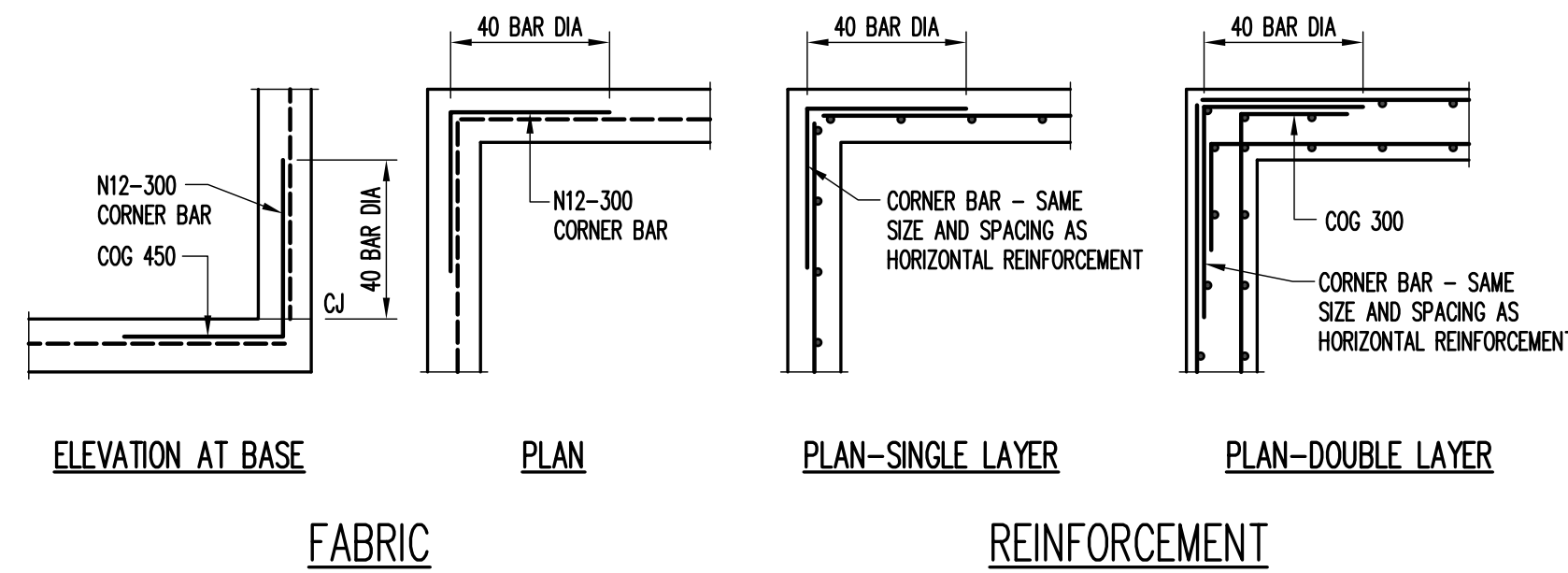
PIT ACCESS STEP DETAIL
SCALE 1:10



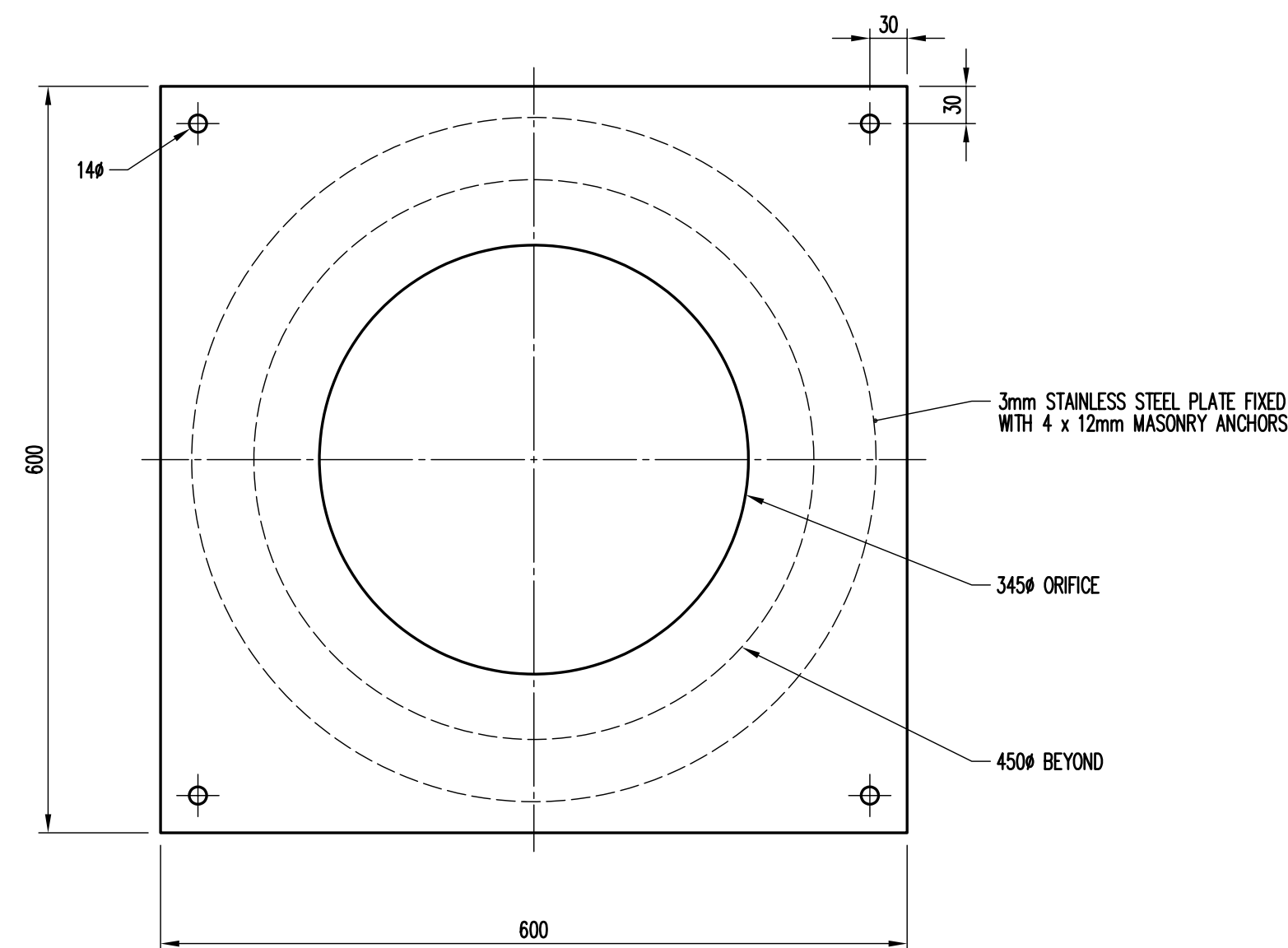
TRASH SCREEN DETAIL
NTS



GRADED DRAIN TYPE A (GDA)
SCALE 1:10



PIT CORNER DETAILS
SCALE 1:20






ORIFICE PLATE DETAIL
SCALE 1:5


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P1	ISSUE FOR DA	15.05.18	NH
P2	ISSUE FOR DA	17.05.18	NH

Client:  

Project Manager: 

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TAREE POLICE STATION

Location: **83 ALBERT STREET, TAREE**

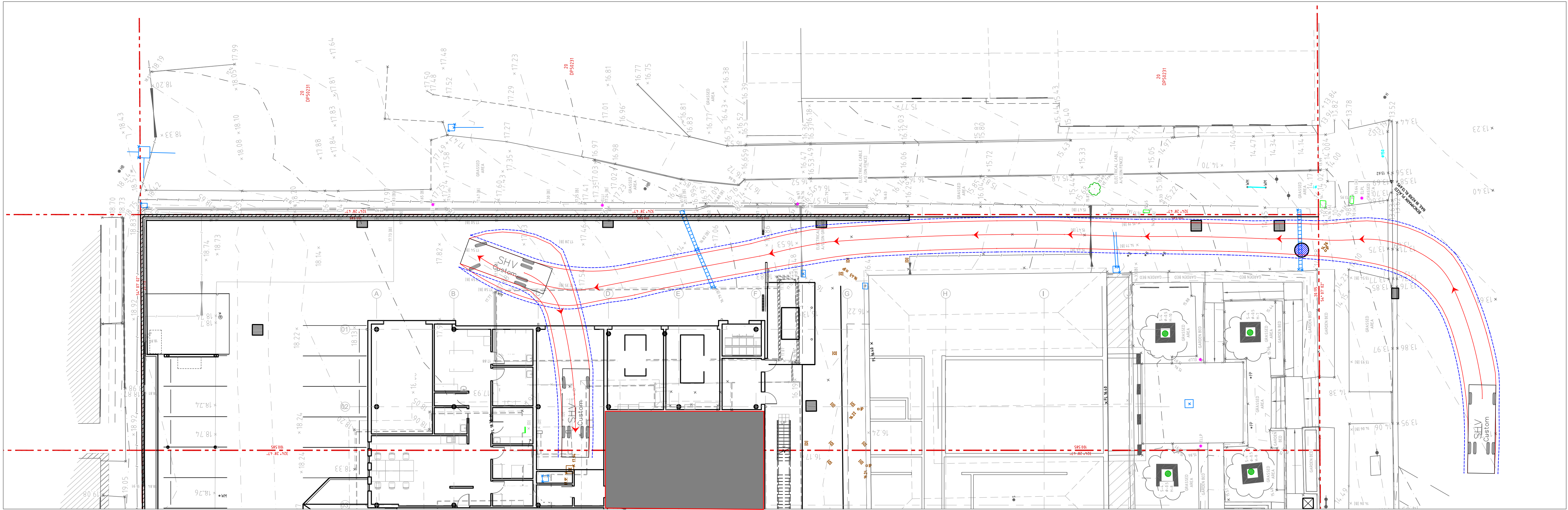
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Drawing Title: **DETAILS SHEET 2**

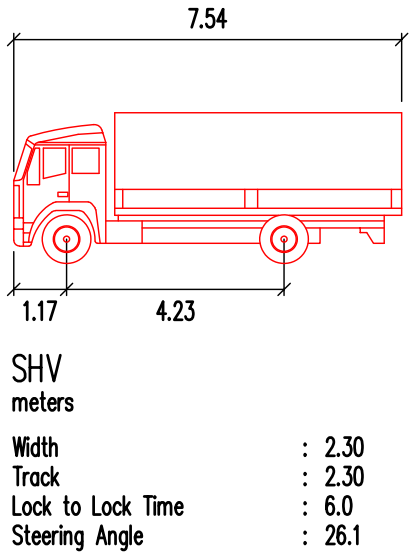
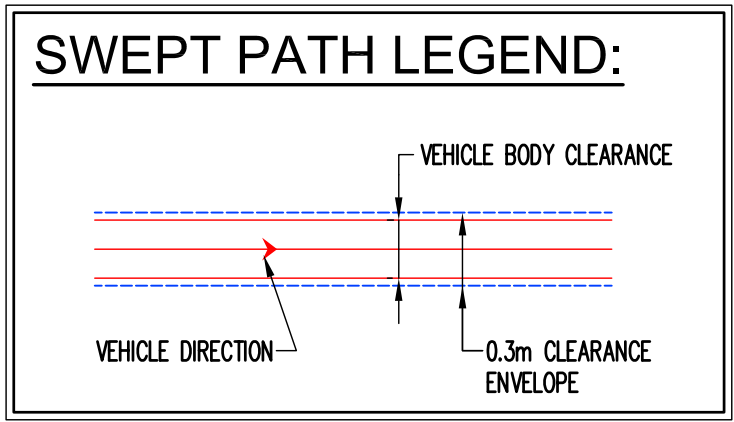
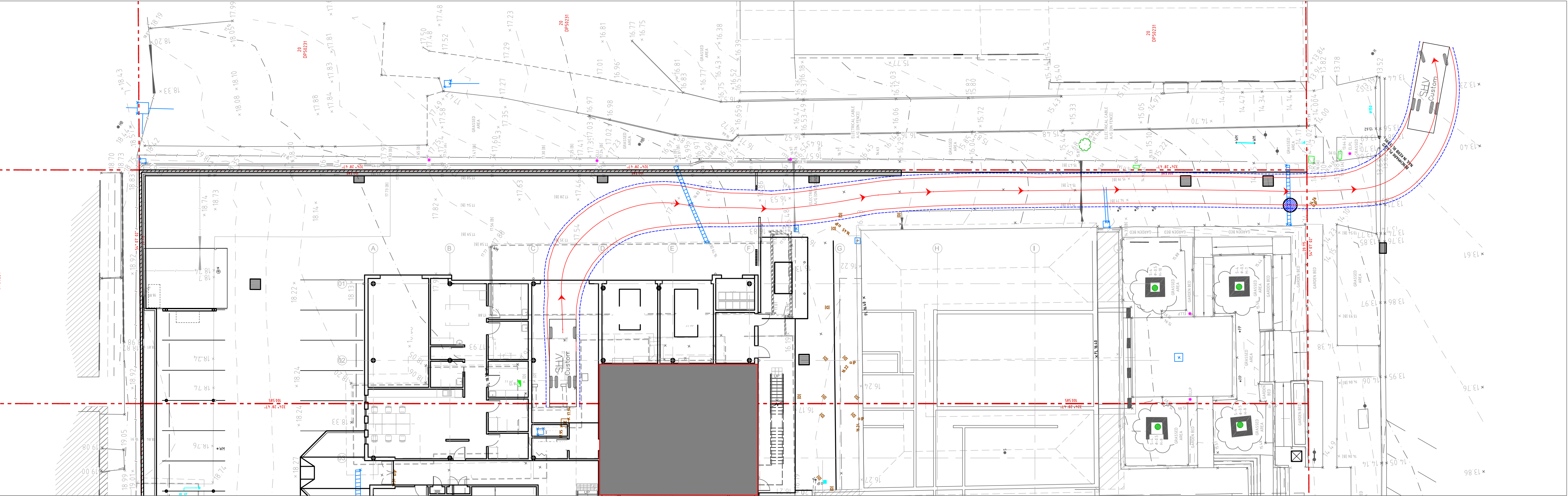
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TTW Proj. No	Drawing No	Revision		
181159	C05	P2		

DEVELOPMENT APPLICATION

P1	ISSUE FOR DA	15.05.18	NH



TURNING PATH - TRUCK DRIVE IN



DEVELOPMENT APPLICATION

Client

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TAREE POLICE STATION

Location

83 ALBERT STREET, TAREE

Asset

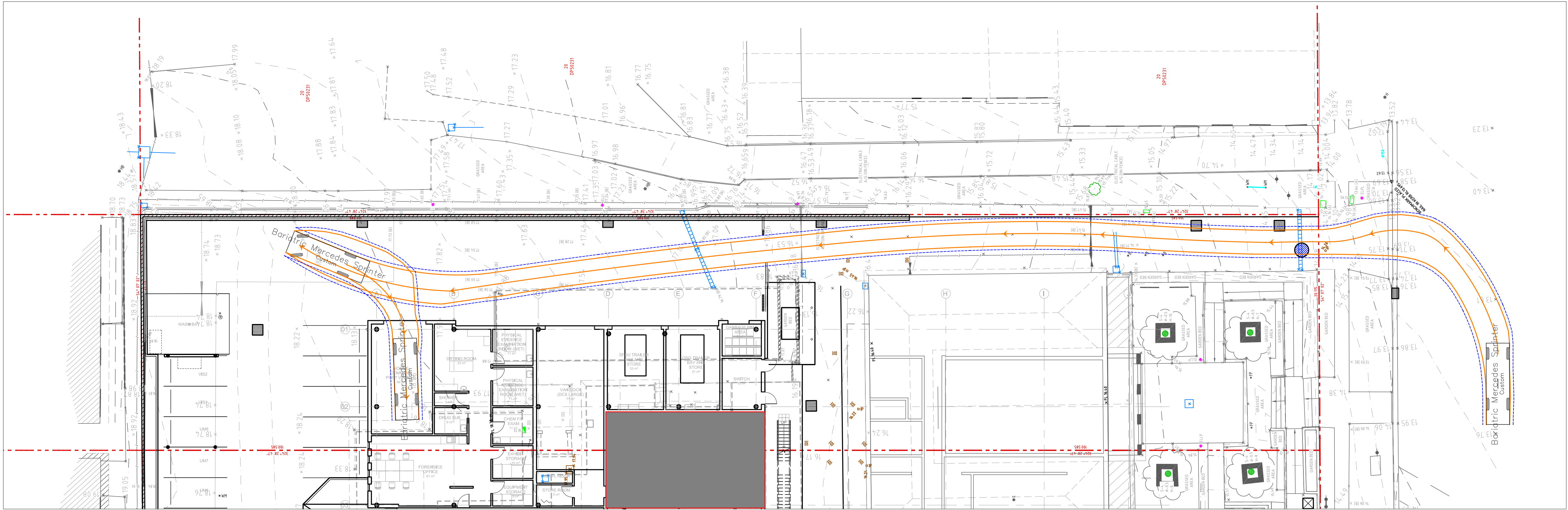
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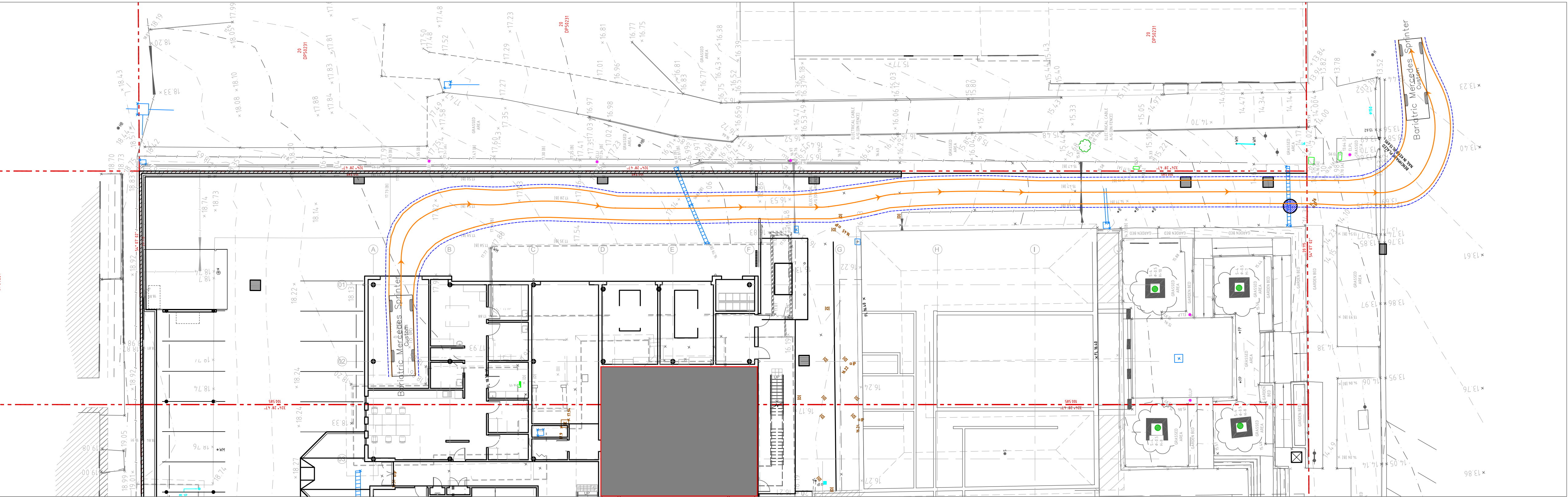
TURNING PATH SHEET 1

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181159	C06		P1	

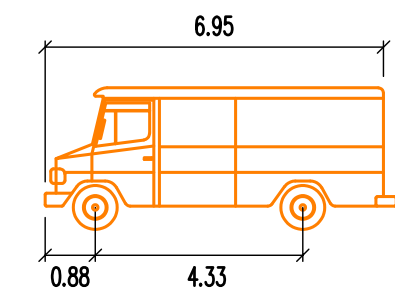
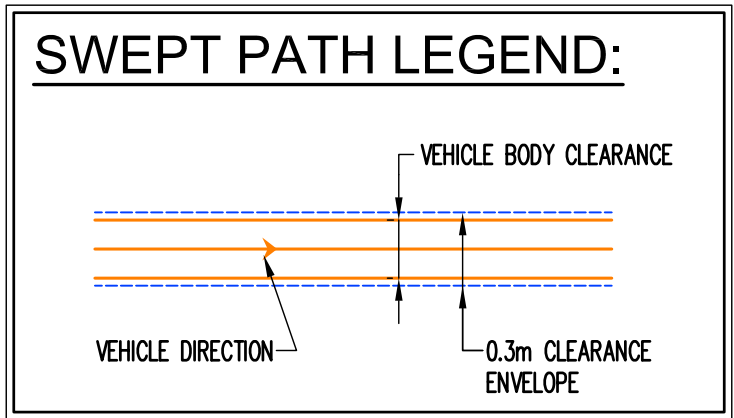
P1	ISSUE FOR DA	15.05.18	NH



TURNING PATH - TRUCK DRIVE IN



TURNING PATH - TRUCK DRIVE OUT



Bariatric Mercedes Sprinter

Width	: 1.99
Track	: 1.99
Lock to Lock Time	: 6.0
Steering Angle	: 38.2

DEVELOPMENT APPLICATION

Client

Project Manager

Architect

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83 ALBERT STREET, TAREE

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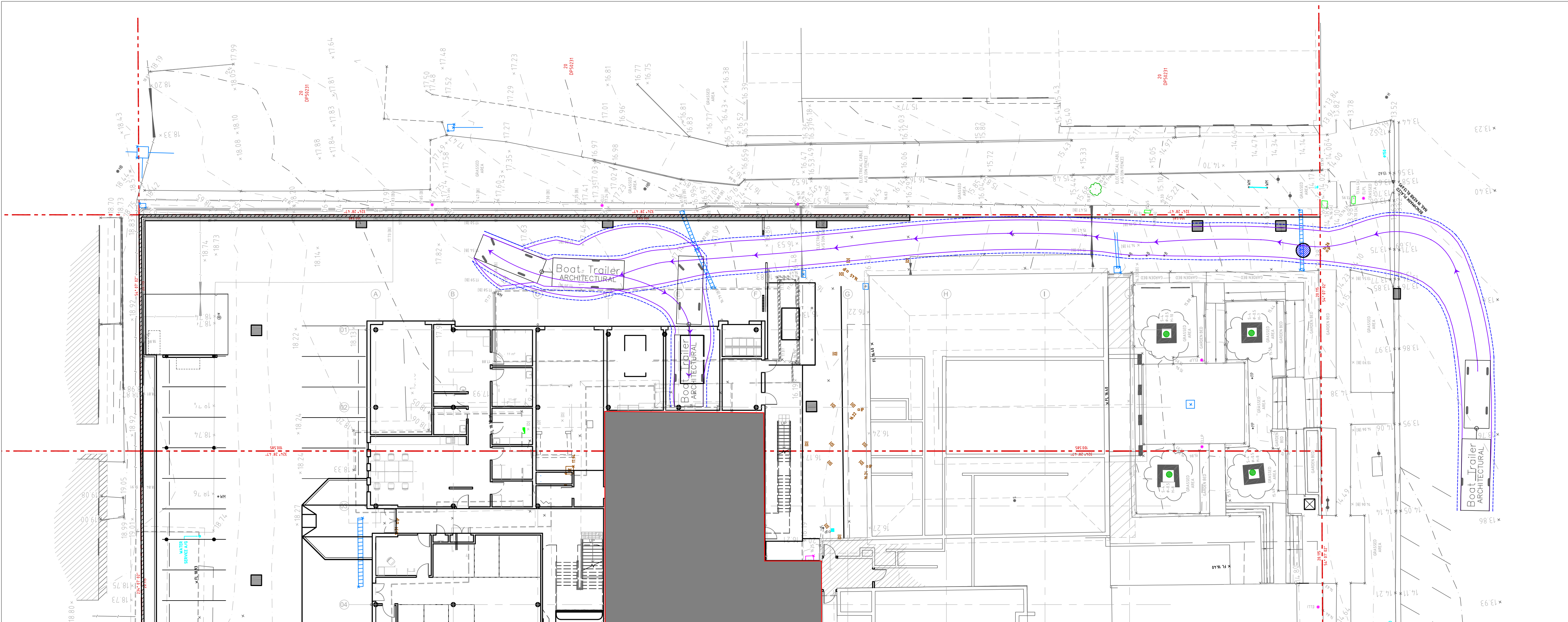
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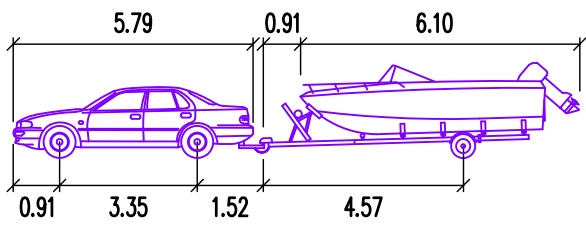
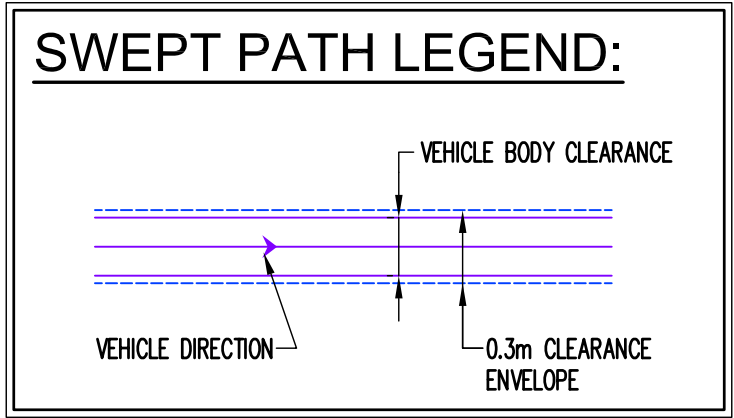
TURNING PATH SHEET 2

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TTW Proj. No.	Drawing No.	Revision		
181159	C07	P1		

P1	ISSUE FOR DA	15.05.18	NH



TURNING PATH - BOAT TRAILER



Boat Trailer	meters
Car Width	: 2.13
Trailer Width	: 2.44
Car Track	: 1.83
Trailer Track	: 2.44
Lock to Lock Time	: 6.0
Steering Angle	: 30.9
Articulating Angle	: 70.0

DEVELOPMENT APPLICATION

Client
 

Project Manager


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TAREE POLICE STATION

Location
83 ALBERT STREET, TAREE

Asset
TAREE POLICE STATION

Drawing Title
TURNING PATH SHEET 3

Phase	Scale	Plot Date	Drawn	Chk
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