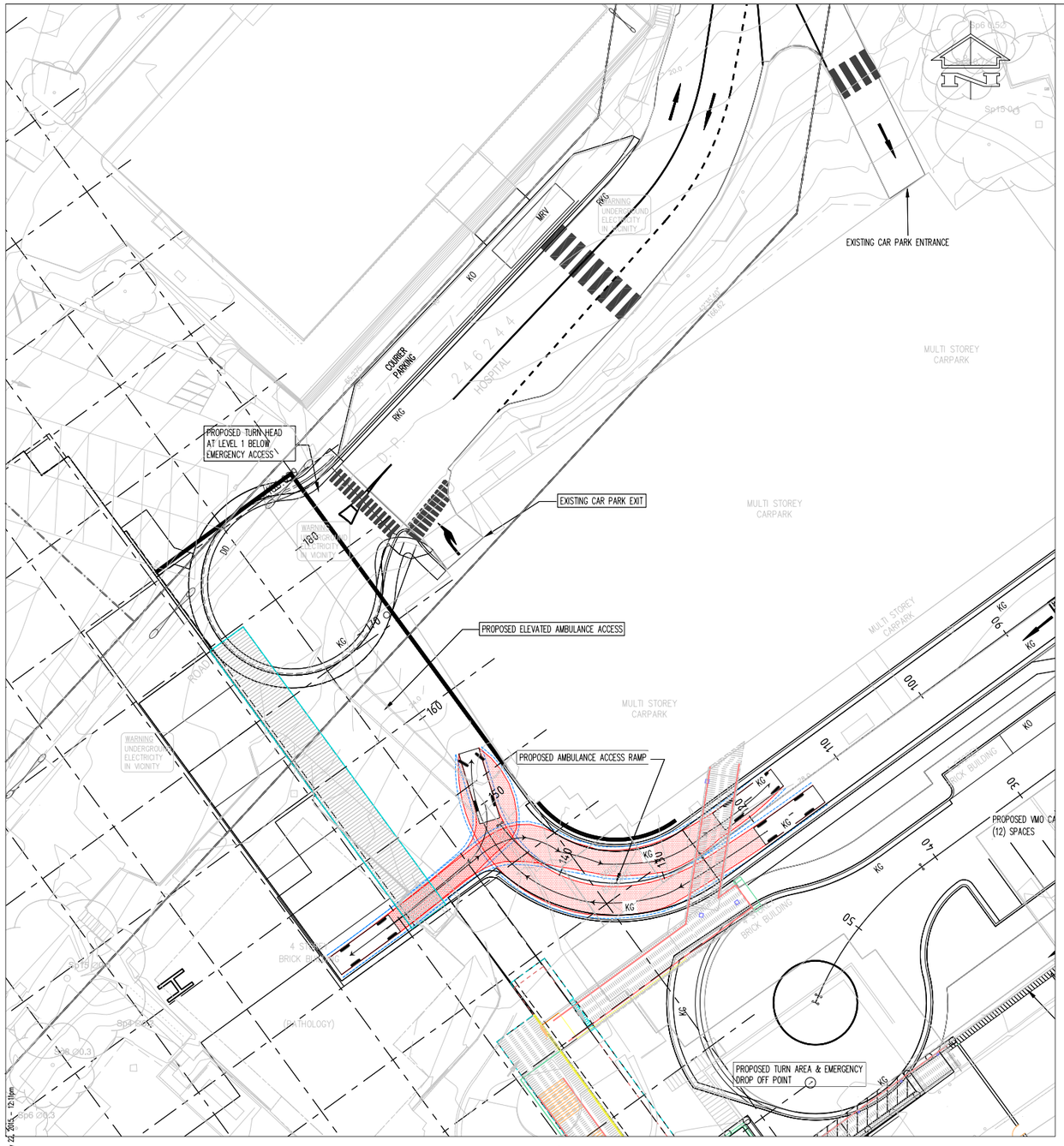
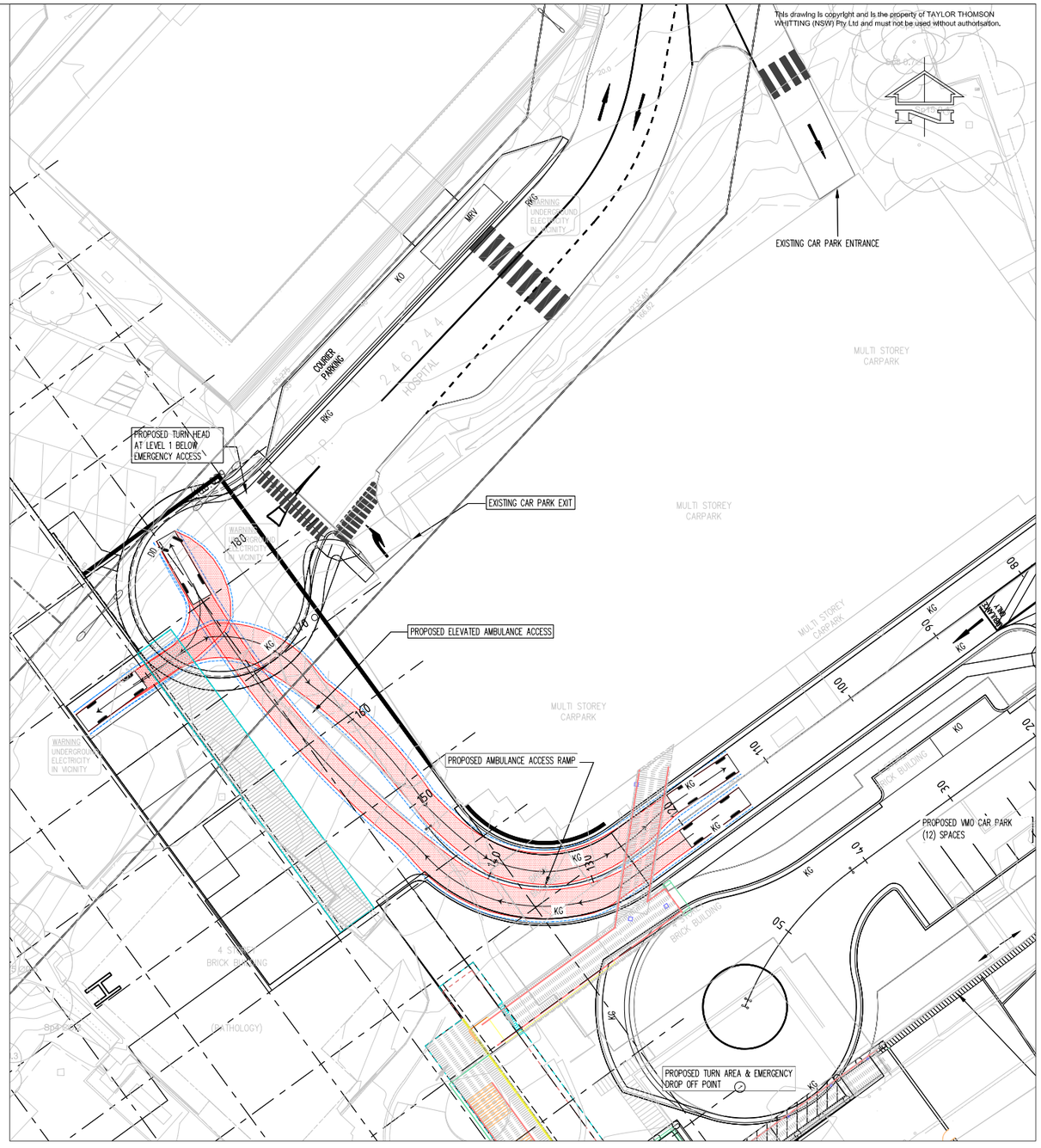
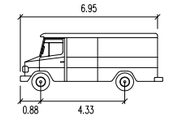


TURNING PATH 1



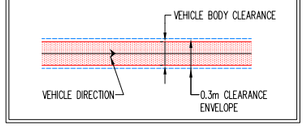
TURNING PATH 2



Bariatric Mercedes Sprinter

	meters
Width	: 1.99
Trock	: 1.99
Lock to Lock Time	: 6.0
Steering Angle	: 38.2

SWEPT PATH LEGEND:



PRELIMINARY

Rev	Description	Eng	Draft	Date
P6	PRELIMINARY SSD ISSUE	HS	JW	23.01.15
P5	SD/SSD ISSUE	HS	JW	09.12.14
P4	PRELIMINARY SCHEMATIC DESIGN	HS	TB	21.11.14
P3	SSD DRAFT REPORT	HS	JW	19.11.14
P2	PRELIMINARY	SB	JW	31.10.14
P1	PRELIMINARY	SB	WW	22.10.14
P8	FINAL SD	HS	JW	22.05.15
P7	SSD ISSUE	HS	JW	06.03.15

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Project
GOSFORD HOSPITAL REDEVELOPMENT - CIVIL SCHEMATIC DESIGN

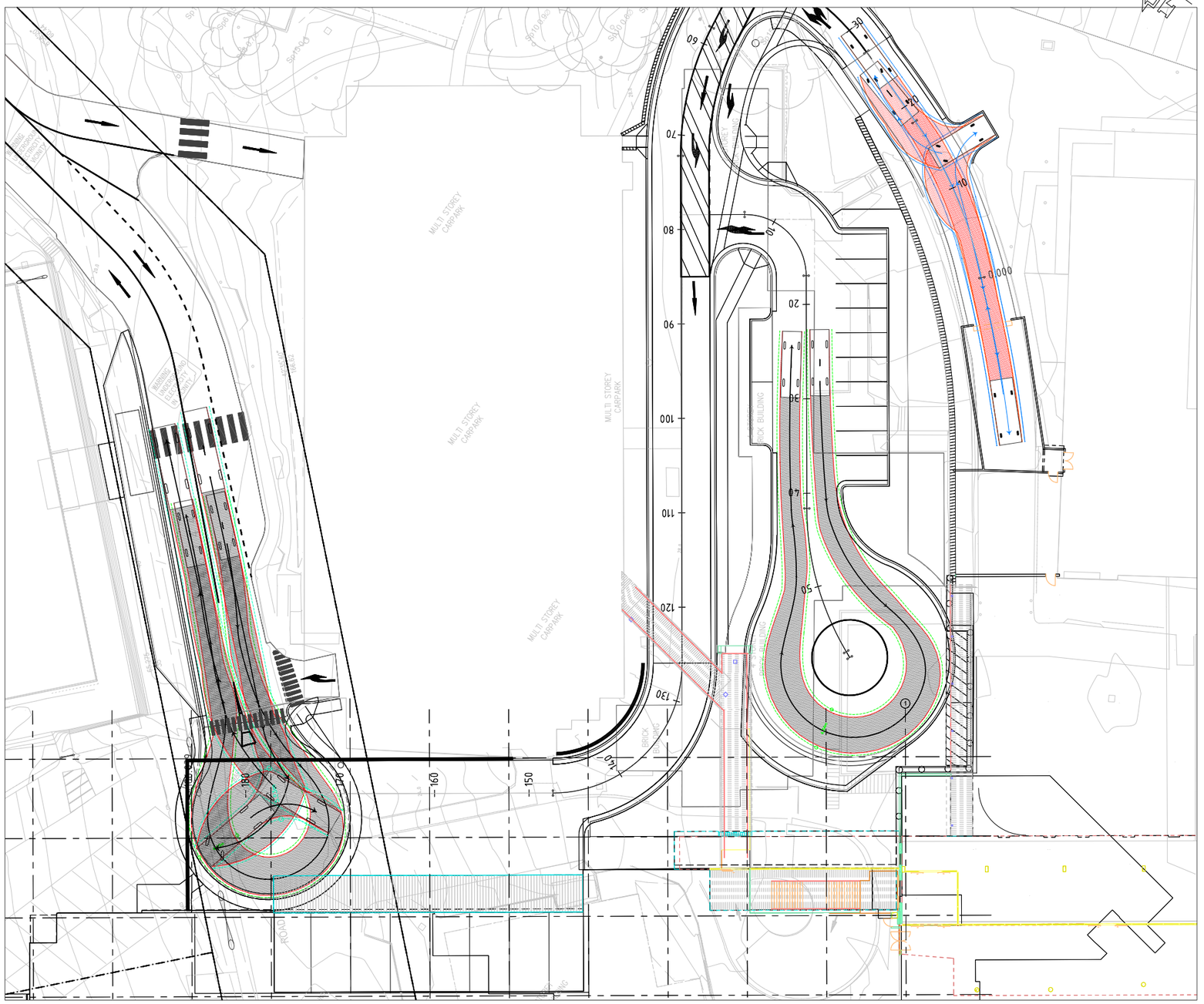
Sheet Subject
TURNING PATH PLAN SHEET 1 - BARIATRIC AMBULANCE

Scale : A1	Drawn	Authorised
1:250	WW	SB

Job No	Drawing No	Revision
141191-NEWB-CV-DG-C8001		P8

Plot File Created: May 22, 2015 - 12:11pm

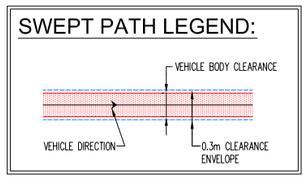
FileName: 141191-NEWB-CV-DG-C8001.dwg – USER: jennyw – Plot File Created: May 22, 2015 - 12:11pm

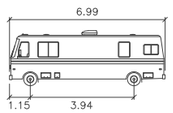


TURNING PATH - B99, COMMUTER BUS & 8.8m SERVICE TRUCK & BARIATRIC AMBULANCE

TURNING PATH - 12.5m TRUCK

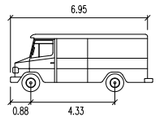
SWEPT PATH LEGEND:





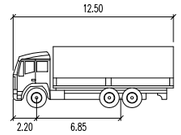
Minibus 21 seaters TOYOTA COASTER

	meters
Width	: 2.02
Track	: 1.69
Lock to Lock Time	: 6.0
Steering Angle	: 37.2



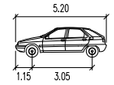
Bariatric Mercedes Sprinter

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



SU TRUCK

	meters
Width	: 2.50
Track	: 2.50
Lock to Lock Time	: 6.0
Steering Angle	: 36.6



B99

	meters
Width	: 1.90
Track	: 1.56
Lock to Lock Time	: 6.0
Steering Angle	: 42.0

PRELIMINARY

FileName: 141191-NEWB-CV-DG-C8002.dwg - USER: jennyw - Plot File Created: May 22, 2015 - 2:39pm

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

Rev	Description	Eng	Draft	Date
P5	PRELIMINARY SSD ISSUE	HS	JW	23.01.15
P4	SD/SSD ISSUE	HS	JW	09.12.14
P3	SSD DRAFT REPORT	HS	JW	19.11.14
P2	PRELIMINARY	HS	JW	31.10.14
P1	PRELIMINARY	SB	WW	22.10.14

Rev	Description	Eng	Draft	Date
P7	FINAL SD	HS	JW	22.05.15
P6	SSD ISSUE	HS	JW	06.03.15

Rev	Description	Eng	Draft	Date

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Project
GOSFORD HOSPITAL REDEVELOPMENT - CIVIL SCHEMATIC DESIGN

Sheet Subject
TURNING PATH PLAN SHEET 2

Scale : A1	Drawn	Authorised
1:250	WW	SB

Job No	Drawing No	Revision
141191-NEWB-CV-DG-C8002		P7

Plot File Created: May 22, 2015 - 2:39pm

THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES ON DRAWING SKC01

GOSFORD HOSPITAL - HEALTH & WELLBEING PRECINCT

GENERAL NOTES

1. Contractor must verify all dimensions and existing levels on site prior to commencement of works. Any discrepancies to be reported to the Engineer .
2. Strip all topsoil from the construction area. All stripped topsoil shall be disposed of off-site unless directed otherwise.
3. 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 footprint.
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

1. 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
TREHY INGOLD NEATE	DETAIL SURVEY	SB01	C	06.11.14
TREHY INGOLD NEATE	SERVICES SURVEY	SC01	A	04.08.14
JACOBS	SITE PLAN	008	–	22.01.15
TREHY INGOLD NEATE	EXIST STORMWATER	SJ01	A	
FITZPATRICK+PARTNERS	SITE PLAN	DA-04	B	24.03.15

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : SSM119132
Datum of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Coordinate system :
Survey prepared by : TREHY INGOLD NEATE
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.

EROSION AND SEDIMENT CONTROL NOTES

1. 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 drawings and notes are 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 plan 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 conditions.
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

1. Prior to commencement of excavation the following soil management devices must be installed.
1.1. Construct silt fences below the site and across all potential runoff sites.
1.2. Construct temporary construction entry/exit and divert runoff to suitable control systems.
1.3. Construct measures to divert upstream flows into existing 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.

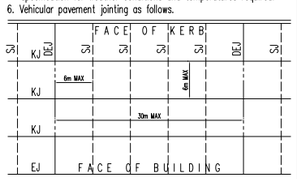
CONCRETE FINISHING NOTES

1. 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.
3. 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.

JOINTING NOTES

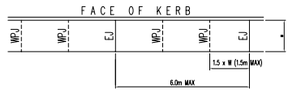
Vehicular Pavement Jointing

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.



Pedestrian Footpath Jointing

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



CONCRETE NOTES

EXPOSURE CLASSIFICATION : External : A2
Internal : A2

CONCRETE

Place concrete of the following characteristic compressive strength f'c as defined in AS 1379.

Location	AS 1379 f'c MPa at 28 days	Specified Slump	Nominal Agg. Size
KERBS, FOOTPATHS	S25	80	20
FOOTINGS, PAVEMENTS	S32 at 90 days	80	20

1. Use Type 'GP' cement, unless otherwise specified.
2. All concrete shall be subject to project assessment and testing to AS 1379.
3. Consolidate by mechanical vibration. Cure all concrete surfaces as directed in the Specification.
4. For all falls in slab, drip grooves, regiets, chamfers etc. refer to Architects drawings and specifications.
5. Unless shown on the drawings, the location of all construction joints shall be submitted to Engineer for review.
6. No holes or chases shall be made in the slab without the approval of the Engineer.
7. Conduits and pipes are to be fixed to the underside of the top reinforcement layer.
8. Slurry used to lubricate concrete pump lines is not to be used in any structural members.
9. All slabs cast on ground require sand blinding with a Concrete Underlay

BOUNDARY AND EASEMENT NOTE

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

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.

KERBING NOTES

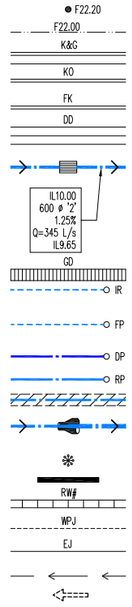
Includes all kerbs, gutters, dish drains, crossings and edges.

1. 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.
2. 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.
3. 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 are shown.

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 5.1.1

SITEWORKS LEGEND



PIT SCHEDULE

Note: Grate size does not necessarily reflect pit size, refer pit type details, shown on detail sheets – **SKC06-07**
Final internal pit dimensions are to comply with AS3500

Type	Description	Cover (Clear Opening)	Number
A	Kerb inlet pit 1800 lintel	600 x 900 Class D galvanised mild steel grate hinged to frame	51
B	Surface inlet pit	900 x 900 Class D galvanised mild steel grate hinged to frame	63,64,65
C	Junction pit	900 x 900 Class D cast iron cover with concrete infill	52,62
E	Existing pit to remain	modify pit cover	50,66
F	Water quality treatment pit	Class "C" cover	53,61
G	Retention/ detention pit	900 x 900 Class D galvanised mild steel grate hinged to frame	54,55,56,57,58

STORMWATER DRAINAGE NOTES

1 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 = 234 mm/hr
1:20 years = 184 mm/hr
(C) Runoff coefficients –
Roof areas: Cxx = 1.0
Roads and paved areas: Cxx = 0.95
Landscaped areas: Cxx = 0.70

2. Pipes 300 dia and larger to be reinforced concrete Class "2" approved spigot and socket with rubber ring joints U.N.O.
3. Pipes up to 300 dia shall be sewer grade uPVC with solvent welded joints.
4. Equivalent strength VCP or FRP pipes may be used subject to approval.
5. Precast pits may be used external to the building subject to approval by Contact administrator
6. Enlargers, connections and junctions to be manufactured fittings where pipes are less than 300 dia.
7. 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).

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 (Coffey) 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 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 (Enviro West) 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 marshall to supervise vehicle movements where necessary.

SIGNS AND LINE MARKING NOTES

1. Pavement marking and sign posting to be in accordance with R.T.A. 'Interim Guide to Signs and Markings'.
2. Contractor is to provide guide posts, spaced in accordance with AS1742.2. They are to be located near all head walls and pipe outlets.
3. Raised pavement markers to be in accordance with AS1742.2
4. Where existing pavement marking conflicts with proposed, it is to be removed.
5. Lane widths do not include width of gutter.
6. Line marking plan does not define boundaries.
7. Erect temporary sign 'changed traffic conditions ahead' 120m ahead of new work in both directions.
8. Establish the location of existing utility services and locate new signs clear of these installations.
9. The sloped face of the SF median kerbs which adjoin through lanes, are to be painted white in lieu of an E3 edge line. The reflective pavement markers normally associated with an E3 edge line are to be located on the pavement adjacent to the SF kerb.
10. Bicycle pavement markings and sign posting to be in accordance with Austroads Standards.

DRAWING SCHEDULE

Drawing No	Drawing Title
141191-HWBP-CV-DG-C0001	NOTES & LEGEND SHEET
141191-HWBP-CV-DG-C0002	PROPOSED WORKS - LOCATION PLAN
141191-HWBP-CV-DG-C0003	STORMWATER CATCHMENT PLAN
141191-HWBP-CV-DG-C1001	EROSION AND SEDIMENT CONTROL PLAN
141191-HWBP-CV-DG-C3001	OVERALL SITEWORKS PLAN
141191-HWBP-CV-DG-C3002	SITEWORKS PLAN SHEET 1 OF 5
141191-HWBP-CV-DG-C3003	SITEWORKS PLAN SHEET 2 OF 5
141191-HWBP-CV-DG-C3004	SITEWORKS PLAN SHEET 3 OF 5
141191-HWBP-CV-DG-C3005	SITEWORKS PLAN SHEET 4 OF 5
141191-HWBP-CV-DG-C3006	SITEWORKS PLAN SHEET 5 OF 5
141191-HWBP-CV-DG-C5001	DETAIL SHEET 1
141191-HWBP-CV-DG-C5002	DETAIL SHEET 2
141191-HWBP-CV-DG-C5003	DETAIL SHEET 3
141191-HWBP-CV-DG-C6001	OVERALL EXISTING SERVICES PLAN
141191-HWBP-CV-DG-C8001	TURNING PATH PLAN SHEET 1
141191-HWBP-CV-DG-C8002	TURNING PATH PLAN SHEET 2
141191-HWBP-CV-DG-C8003	TURNING PATH PLAN SHEET 3

PAVEMENT LEGEND

P1 – 40mm Thickness asphaltic concrete (AC10) on 200mm Compacted thickness fine crushed rock (DGB20) on 350mm Compacted thickness fine crushed rock (DGS40) on CBR 3% (Assumed –to be confirmed by geotech)

P2 – EXISTING PAVEMENT TO REMAIN

P3 – EXISTING FOOTPATH TO REMAIN

P4 – SUSPENDED SLAB BY STRUCTURAL ENGINEERS

P5 – 120mm Thickness concrete (f'c = 32 MPa) with SL72 fabric (40mm top cover) on 75mm Compacted thickness fine crushed rock (DGB20) on CBR 3% (Assumed – to be confirmed by Geotech)

P6 – 40mm Thickness concrete segmented pavers or landscaping (200x600 UNO) to landscape architect specification on 25mm Cement mortar on 120mm Thickness concrete (f'c = 32 MPa) with SL72 fabric (40mm top cover) on 75mm Compacted thickness fine crushed rock (DGB20) on CBR 3% (Assumed – to be confirmed by Geotech) or suspended slab by structural engineers.

P7 – 60mm Thickness concrete segmented pavers (300x600 UNO) or landscaping to landscape architect specification on 25mm Cement mortar on 160mm Thickness concrete (f'c = 32 MPa) with SL72 fabric (40mm top cover) on 75mm Compacted thickness fine crushed rock (DGB20) on CBR 3% (Assumed – to be confirmed by Geotech) or suspended slab by structural engineers.

FileName: 141191-HWBP-CV-DG-C0001.dwg – USER: jerrym – Plot File Created: May 22, 2015 - 12:56pm

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

Rev	Description	Eng	Draft	Date
P4	FINAL SD	HS	JW	22.05.15
P3	SSD ISSUE	HS	AS	09.04.15
P2	SSD ISSUE	HS	JW	06.03.15
P1	PRELIMINARY SSD ISSUE	HS	JW	23.01.15

PRELIMINARY

Architect
FITZPATRICK + PARTNERS

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Project
HEALTH & WELLBEING PRECINCT -
CIVIL SCHEMATIC DESIGN

Sheet Subject
NOTES & LEGEND SHEET

Scale : A1 NTS
Drawn DWK
Authorised

Job No 141191
Drawing No -HWBP-CV-DG-C0001
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