

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.
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.
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.

Table with columns: Consultant, Dwg Title, Dwg No, Rev, Date. Lists drawings for CARDNO, LOCKLEY LAND, and TITLE SOLUTIONS.

SITWORKS 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

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.
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.

PAVEMENT LEGEND

- #1 50mm Thickness asphaltic concrete (AC10) on 100mm Compacted thickness fine crushed rock (DGB20) on 200mm Compacted thickness fine crushed rock (DGS40) on 3.0% CBR (confirm on site)
#3 160mm Thickness concrete (fc=32MPa) with SL82 fabric (40 top cover) on 100mm Compacted thickness fine crushed rock (DGB 20)
#5 100mm Thickness concrete (fc=25MPa) with SL72 mesh dowied to existing pavement refer detail (K) on drawing C702

NOTE

Asphaltic concrete shall conform to AS2150 and the specification

SURVEY AND SERVICES INFORMATION

SURVEY

Origin of levels : A.H.D. AUSTRALIAN HEIGHT DATUM
Datum of levels : ISG\_OR\_MGA\_OR\_LOCAL
Coordinate system : ISG\_OR\_MGA\_OR\_LOCAL
Survey prepared by : CONTACT THE SURVEYOR
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 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.

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.

STORMWATER DRAINAGE NOTES

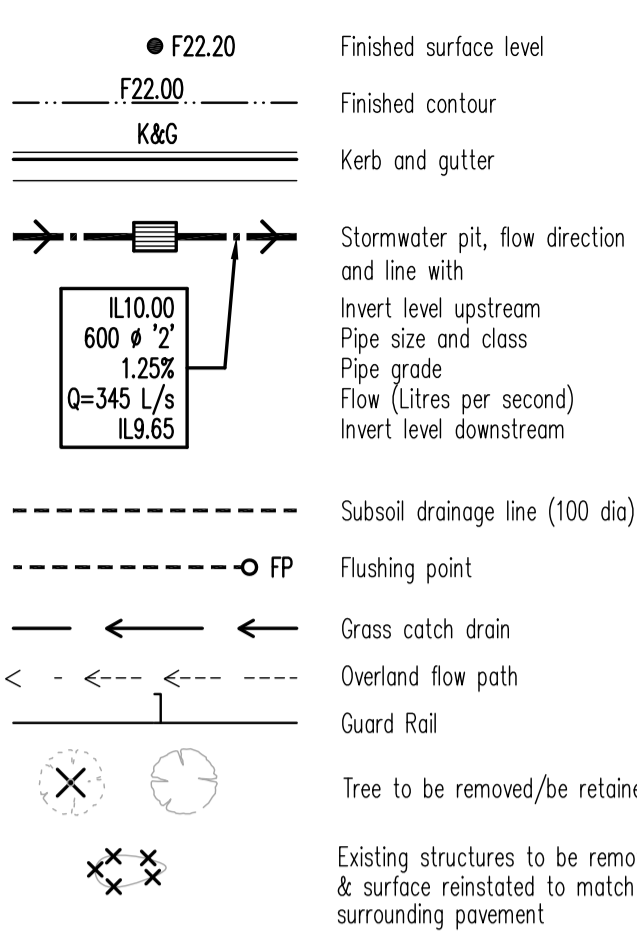
- 1 Stormwater Design Criteria :
(A) Average recurrence interval -
1:100 years for roof drainage to first external pit
1:20 years for paved and landscaped areas

- (B) Rainfall intensities -
Time of concentration: 5 minutes
1:100 years = 223.18 mm/hr
1:20 years = 174.5 mm/hr

- (C) Runoff coefficients -
Roof areas: C00 = 1.00
Roads and paved areas: C00 = 0.95
Landscaped areas: C00 = 0.48

- 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 FCP pipes may be used subject to approval.
5. Precast pits may be used external to the building subject to approval by Superintendent
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).

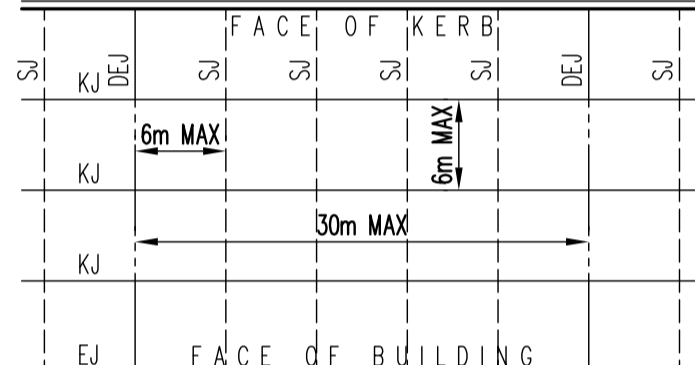
SITWORKS LEGEND



JOINTING NOTES

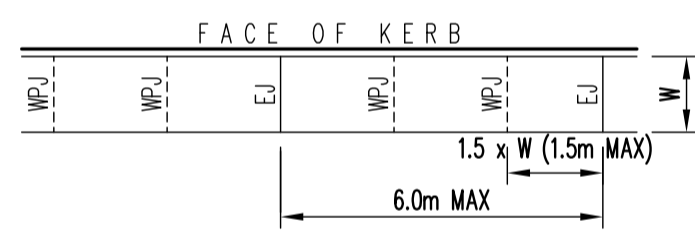
Vehicular Pavement Jointing

- 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. Vehicular pavement jointing as follows.
6. 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.



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).



SURVEY LEGEND



CONCRETE NOTES

EXPOSURE CLASSIFICATION : External : Internal :

CONCRETE

Place concrete of the following characteristic compressive strength fc as defined in AS 1379.

Table with columns: Location, AS 1379 fc MPa at 28 days, Specified Slump, Nominal Agg. Size. Lists SF(25), SF(32) for various locations.

- 1. Use Type 'CP' 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, rejets, 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

FORMWORK

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

REINFORCEMENT NOTES

- 1. Fix reinforcement as shown on drawings. The type and grade is indicated by a symbol as shown below. On the drawings this is followed by a numeral which indicates the size in millimetres of the reinforcement.

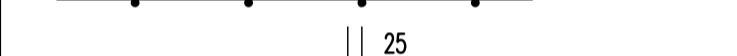
- N. Hot rolled ribbed bar grade D500N
R. Plain round bar grade R250N
SL. Square mesh grade 500L
RL. Rectangular mesh grade 500L

- 2. Provide bar supports or spacers to give the following concrete cover to all reinforcement unless otherwise noted on drawings.

- Footings - 40 top, 40 bottom, 40 sides.
Slabs - 40 top, 40 bottom, 40 when exposed to weather or ground.
Walls - 40 generally, 40 when cast in forms but later exposed to weather or ground, 40 when cast directly in contact with ground.

- 3. Cover to reinforcement ends to be 50 mm u.n.o.
4. Provide N12-450 support bars to top reinforcement as required, Lap 450 U.N.O.
5. Maintain cover to all pipes, conduits, rejets, drip grooves etc
6. Laps in reinforcement shall be made only where shown on the drawings unless otherwise approved. Lap lengths shall be 40 bar dia, unless noted otherwise.
7. All cogs to be standard cogs unless noted otherwise.
8. Fabric end and side laps are to be placed strictly in accordance with the manufacturers requirements to achieve a full tensile lap. Fabric shall be laid so that there is a maximum of 3 layers at any location.

FABRIC LAPS



REINFORCEMENT LEGEND

- 1. Denotes the extent of area covered by bars.
2. Denotes a change in bar shape and/or length.
3. B3 indicates to repeat bars lagged thus etc. LAY BARS IN DIRECTION INDICATED BY ARROW.
4. Bars shown staggered on plan are to be placed alternately.
5. ALT. denotes bars of different length and/or shape to be laid alternately.

- 6. Indicates 10 bars at 250 centres plus 3 bars placed one per space centrally over column.

ABBREVIATIONS USED ON DRAWINGS :

- U.N.O. - Unless Noted Otherwise E.W. - Each Way
N.S.O.P. - Not Shown On Plan E.F. - Each Face
N.S.O.E. - Not Shown On Elevation N.F. - Near Face
L.V. - Bar Lengths Vary F.F. - Far Face
N.T.S. - Not To Scale

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Project: TRAFFIC MANAGEMENT WORKS BALACLAVA RD

Sheet Subject: NOTES AND LEGENDS SHEET

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PRELIMINARY