



LEGEND

- CONCRETE PAVEMENT
- LANDSCAPING / GRASSED AREA
- EXISTING SPOT LEVEL
- EXISTING CONTOUR
- 100 HIGH CONCRETE KERB & GUTTER
- 100 HIGH CONCRETE KERB
- 150 WIDE CONCRETE SPOON DRAIN
- PUMPING MAIN, AS PER SUMP PUMP SPEC.
- Ø100 PVC STORMWATER PIPE @ 1.0% MIN U.N.O.
- Ø100 uPVC STORMWATER PIPE (SEALED) U.N.O.
- Ø100 uPVC FLYING STORMWATER PIPE (SEALED) U.N.O.
- Ø100 AG DRAIN WITH 16mm SCREENINGS
- FIXED BOLLARD
- SELECTED DOWNPIPE
- SURFACE INSPECTION OPENING
- (GIP) Ø90 GRATED INLET PIT
- (GS) 300SQ. GRATED SUMP (UNO)
- (JB) 300SQ. JUNCTION BOX (UNO)
- (GS) 450SQ. GRATED SUMP (UNO)
- (JB) 450SQ. JUNCTION BOX (UNO)
- KERB RAMP
- 200 SERIES BLOCKWORK (REFER TO STRUC DRAWINGS FOR DETAILS)
- CONCRETE UPSTAND (500 MAX)
- 300 WIDE GRATED TRENCH DRAIN
- 300 WIDE x 100 DEEP GALVANISED BOX CULVERT
- DESIGN LEVEL
- T.K. TOP OF KERB.
- W.T. WATER TABLE.
- P. PAVEMENT.
- T.R.W. TOP OF RETAINING WALL.
- B.R.W. BOTTOM OF RETAINING WALL.
- C.L. COVER LEVEL
- I.L. INVERT LEVEL
- F.F.L. FINISHED FLOOR LEVEL
- B.L. BENCH LEVEL
- N.S. NATURAL SURFACE LEVEL

COMPACTION NOTES:

- (PAVEMENTS)
- BASE MATERIAL NORMALLY CONSTRUCTED OF 20.0mm F.C.R SHALL BE COMPACTED TO ACHIEVE A DENSITY NOT LESS THAN 98.0% OF THE MODIFIED COMPACTION IN ACCORDANCE WITH AS1289.5.2.1 - 1993. FREQUENCY OF FIELD DENSITY TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3798 - 2007 TABLE 8.1. TESTING SHALL BE EVENLY SPACED OVER THE ENTIRE SITE, AND AT RANDOM LOCATIONS. TEST RESULTS SHALL BE FORWARDED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORKS.
  - SUB-BASE MATERIAL NORMALLY CONSTRUCTED OF 20.0mm TO 40.0mm Q.R SHALL BE COMPACTED TO ACHIEVE A DENSITY NOT LESS THAN 95.0% OF THE MODIFIED COMPACTION IN ACCORDANCE WITH AS1289.5.2.1 - 1993 - TESTING SHALL BE CARRIED OUT AS NOTE 1.

CONCRETE NOTES:

- CONCRETE SHALL COMPLY, AS REGARDS TO BOTH MATERIALS AND WORKMANSHIP, WITH AS3600 "CONCRETE STRUCTURES CODE".
- KERB AND GUTTER TO COMPLY WITH AS2876-1987.
- CONCRETE SHALL BE OBTAINED FROM AN APPROVED PRE-MIX SUPPLIER AND SHALL COMPLY WITH THE CURRENT AS1379 "SPECIFICATION FOR READY MIXED CONCRETE". THE CONCRETE SHALL HAVE A SLUMP OF 80mm AND A COMPRESSIVE STRENGTH OF F<sub>c</sub>=25MPa FOR KERBS AND PITS (U.N.O) AT TWENTYEIGHT (28) DAYS. AGGREGATE SIZE SHALL BE 20mm.
- STEELWORK FOR REINFORCEMENT AND JOINT CONSTRUCTION SHALL COMPLY, AS REGARDS TO BOTH MATERIALS AND WORKMANSHIP, WITH AS3600 "CONCRETE STRUCTURES CODE".
- SHRINKAGE- CONTROL JOINTS ON KERB, KERB AND GUTTER, EDGING AND SPOON DRAIN SHALL BE FORMED AT SPACINGS OF 2500c/c WITH A TOOLED GROOVE TO A DEPTH OF NOT LESS THAN 20mm AND PROVIDE WEAKENED PLANE TO FULL DEPTH.

GENERAL NOTES:

- THIS IS AN ENGINEERING SURVEY PLAN AND SHALL NOT BE TAKEN AS A CADASTRAL OR IDENTIFICATION SURVEY. BOUNDARY DATA SHOWN IS TO BE TAKEN AS A GUIDE ONLY.
- BEFORE SETTING OUT PIPE RUNS, REFER TO THE ARCHITECTURAL, MECHANICAL, STRUCTURAL AND ALL OTHER RELEVANT DRAWINGS TO PREVENT CLASHING OF SERVICES.
- REFER TO DIMENSIONED ARCHITECTURAL BUILDING DETAILS FOR ALL SETTING OUT DIMENSIONS AND CO-ORDINATE WITH SITE PROJECT MANAGER.
- TMK CONSULTING ENGINEERS ACCEPT NO RESPONSIBILITY FOR ERRORS AND OMISSIONS RELATED TO DIMENSIONAL SET-OUT OR DISCREPANCIES MADE BY THIRD PARTIES DURING CONSTRUCTION.
- REFER TO STRUCTURAL ENGINEER'S DRAWINGS FOR DETAILS OF CONCRETE FLOOR AND BEAMS BEFORE SETTING OUT.
- PROVIDE MINIMUM COVER TO STORMWATER PIPES AS PER AS3500 U.N.O. IF COVER CAN NOT BE ACHIEVED ENCASE PIPE IN 100mm THICK CONCRETE. ALL STORMWATER AND/OR OTHER SERVICE CONNECTION POINTS ARE TO BE LOCATED AND CONFIRMED BY THE BUILDER/CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY CIVIL WORKS.
- FLEXIBLE CONNECTIONS FOR SEWER AND STORMWATER ARE REQUIRED FOR THIS SITE.
- ALL NEW CIVIL WORKS ARE TO BE CONSTRUCTED TO MATCH IN NEATLY WITH EXISTING STRUCTURES.
- CONTRACTOR TO CONFIRM EXISTING FINISHED FLOOR LEVEL ON SITE. FINISHED FLOOR LEVEL OF ADDITION TO MATCH EXISTING.

COMPACTION NOTES:

- (GENERAL)
- ALL AREAS TO BE FILLED SHALL BE COMPLETELY CLEARED OF ALL DELETERIOUS MATERIAL, INCLUDING THE FOLLOWING: TREES, ROOTS AND ALL OTHER DECAYED VEGETATION.
  - PRIOR TO THE COMMENCEMENT OF ANY CIVIL OR STRUCTURAL CONSTRUCTION THE ENTIRE SITE AREA IS TO BE COMPACTED AND TESTED IN ACCORDANCE WITH AS1289.5.1.1 OR 5.1.2 - 1993 TO PRODUCE THE FOLLOWING: -98.0% STANDARD COMPACTION AT THE SURFACE AND AT 200mm BELOW SURFACE LEVEL. FREQUENCY OF FIELD DENSITY TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3798 - 2007 TABLE 8.1. TESTING SHALL BE EVENLY SPACED OVER THE ENTIRE SITE, AND AT RANDOM LOCATIONS. TEST RESULTS SHALL BE FORWARDED TO THE ENGINEER FOR APPROVAL PRIOR TO COMMENCEMENT OF WORKS.
  - ALL NEW FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER AND SHALL BE COMPACTED TO PRODUCE 98% STANDARD COMPACTION IN ACCORDANCE WITH AS1289.5.1.1. THE LOOSE THICKNESS OF EACH LAYER BEFORE COMPACTION SHOULD NOT EXCEED 200mm WITHOUT THE APPROVAL OF THE ENGINEER. PROVIDE COMPACTION TESTS FOR NEW FILL AS PER NOTE 2.
  - ALL EXISTING FILL WITHIN THE CONSTRUCTION AREA SHALL BE COMPLETELY REMOVED. MATERIAL SHALL BE REPLACED AND COMPACTED IN LAYERS NOT EXCEEDING 200mm WHEN MEASURED LOOSE. EACH LAYER SHALL BE COMPACTED TO ACHIEVE A DENSITY OF NOT LESS THAN 98.0% (FOR COMMERCIAL) AND 95% (FOR RESIDENTIAL) STANDARD COMPACTION, AND TESTED AS PER NOTE 2.

ROOF DRAINAGE SCHEDULE

ITEM.	DESCRIPTION	WIDTH	DEPTH	LENGTH
BOX GUTTER 1 (BG1)	--	600	150	--
BOX GUTTER 2 (BG2)	--	200	100	--
RAINWATER HEAD (RH1)	REFER ARCHITECTURAL	--	--	--
BOX GUTTER SUMP (BS1)	Ø150 DP FROM SUMP	600	100	600
BOX GUTTER SUMP (BS2)	Ø100 DP FROM SUMP	200	100	300
DOWNPIPE (DP1)	--	Ø150	--	--
DOWNPIPE (DP2)	--	Ø100	--	--
FLYING DOWNPIPE (FDP1)	--	Ø150	--	--
FLYING DOWNPIPE (FDP2)	--	Ø100	--	--

TYPICAL BOLLARD DETAIL  
N.T.S.

GRATED SUMP  
OR JUNCTION BOX  
N.T.S.

LINED OPEN DRAIN  
N.T.S.

AB	FOR CONSTRUCTION	BSA	RP	13.12.18
AA	FOR CONSTRUCTION	BSA	RP	29.10.18
No	REVISION	DRAWN	CHEK'D	DATE

PROJECT  
**THE WILLCOX APARTMENTS**  
**AT: 117 PROSPECT ROAD**  
**PROSPECT, SA 5082**  
**FOR: CITIFY & BFC PTY LTD**

DRAWING TITLE  
**CIVIL PLAN & DETAILS**

Civil  
Environmental  
Fire  
Lifts

Structural  
Geotechnical  
Electrical  
Hydraulics  
Green ESD

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DRAWN	RP	DRAWING No.
DATE	MAY 2018	1802052-C2/AB
ENGINEER	RP	
CHECKED	ASM	

SURVEYED: BY OTHERS

