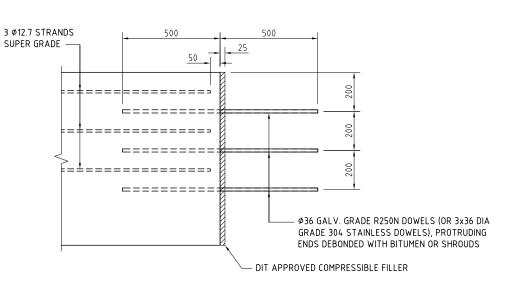
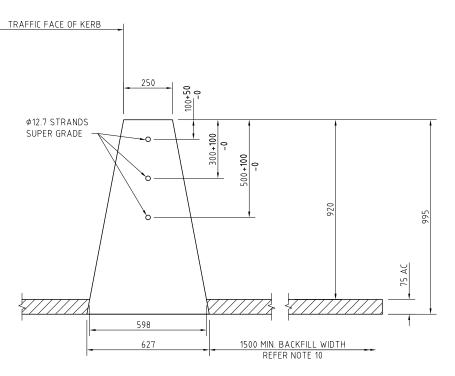


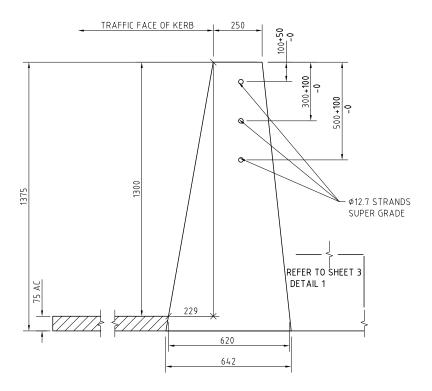
EXTRUDED BARRIER – TL3, 820mm HIGH Δ SCALE 1:10



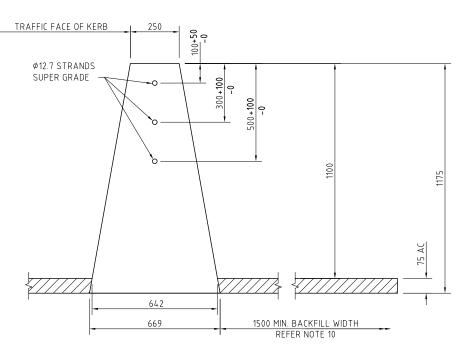
EXPANSION JOINT - TYP A



EXTRUDED BARRIER - TL4, 920mm HIGH A



EXTRUDED BARRIER - TL5, 1300mm HIGHA



EXTRUDED BARRIER - TL5, 1100mm HIGH \triangle SCALE 1:10

NOTES △

- CONCRETE GRADE FOR EXTRUDED BARRIERS SHALL BE N32 FIBRE CONCRETE IMPREGNATED WITH 50mm VIRGIN POLYPROYLENE FIBRILLATED FIBRES (SIKA CONFIBRE 51F, OR SIMILAR APPROVED) AT THE RATE OF 0.9kg/m². STEEL FIBRES SHALL NOT BE PERMITTED AS AN ALTERNATIVE.
- LONGITUDINAL REINFORCEMENT COMPRISING 3/12.7 DIA. SUPER GRADE STRANDS TO AS 1311, SHALL
 EXTEND FOR THE ENTIRE LENGTH OF THE BARRIER, WITH 50mm COVER AT OPENINGS, EXPANSION
 JOINTS AND AT ENDS. GALVANIZED STRANDS MAY BE USED. MINIMUM LAP LENGTH TO BE 2000mm.
- 3. CRACK CONTROL JOINTS IN EXTRUDED BARRIERS ARE TO BE FORMED BY NEATLY SAW CUTTING 50mm DEEP INTO TOP AND BOTH SIDE FACES OF THE BARRIER. TIME OF SAW CUTTING TO BE DETERMINED TO AVOID SHRINKAGE CRACKING BUT MUST BE WITHIN 12 HOURS OF EXTRUSION. JOINTS ARE TO BE AT MAXIMUM OF 4.0m CENTRES.
- 4. EXPANSION JOINTS ON EXTRUDED BARRIERS SHALL BE PROVIDED AT THE END OF EACH DAYS WORK. BARRIERS SHALL HAVE EXPANSION JOINTS AT 200m MAXIMUM INTERVALS. EXPANSION JOINTS SHALL ALSO BE PROVIDED BETWEEN THE EXTRUDED CONCRETE BARRIER AND THE BARRIER TERMINAL
- 5. CHAMFERS FOR EXTRUDED BARRIERS SHALL BE 15x15mm OR 25mm RADIUS.
- 6. BARRIER MOUNTED DELINEATORS SHALL BE DIT APPROVED.
- . BARRIER CENTERLINE TO BE VERTICAL REGARDLESS OF CROSSFALL OR SUPERELEVATION.
- 8. PROVISION FOR DRAINAGE ACROSS BARRIER (IF REQUIRED) SHALL BE DIT APPROVED.
- 9. EXTRUDED BARRIERS SHALL NOT BE USED ON BRIDGE DECKS
- 10. BARRIER EMBEDMENT TO BE 75mm ASPHALT (PRIMED AND PREPARED TO DIT SPECIFICATION R21) OR DIT APPROVED EQUIVALENT AS FOLLOWS:
- 10.1. 150mm DEEP EMBEDMENT IN CEMENT STABILIZED 1MPa CONTROLLED LOW STRENGTH MATERIAL (CLSM) ON COMPACTED VERGE MATERIAL (96% MOD. COMPACTION, 20 OR 40mm QUARRY WASTE) WITH A MINIMUM WIDTH OF 1.5M FROM THE BACK OF THE BARRIER TO THE BATTER HINGE POINT.
- 10.2 225mm DEEP EMBEDMENT IN COMPACTED VERGE MATERIAL (96% MOD. COMPACTION, 20 OR 40mm QUARRY WASTE) WITH SPRAY SEAL SURFACE TREATMENT AND A MINIMUM WIDTH OF 1.5M FROM THE BACK OF THE BARRIER TO THE BATTER HINGE POINT.
- 10.3 75mm MINIMUM THICKNESS UNREINFORCED CONCRETE SLAB WITH A MINIMUM WIDTH OF THE 1.5M FROM THE BACK OF THE BARRIER.
- $\underline{\text{NOTE}}.$ THESE EQUIVALENT BACKFILL OPTIONS/DEPTHS CAN ONLY BE USED WHERE THE BACKFILL IS NOT TRAFFICKED.
- 11. SLIP FORMED TOLERANCES (CONCRETE FINISHED SURFACES):
- VERTICAL -0mm, +20mm
- ALL OTHER SLIP FORMED TOLERANCES AS PER TABLE 5.7.5, AS3845.1 (2015).
- 12. TEST LEVELS (TL) NOTED ARE IN ACCORDANCE WITH MANUAL FOR ASSESSING SAFETY HARDWARE $\underline{\sf ASSOCIATED\ DOCUMENTS}$
- AS/NZS 3845; PRINCIPALS SPECIFICATION; AUSTROADS ROADSIDE DESIGN, SAFETY & BARRIERS PART 6
- SPLIT CARRIAGEWAY
- 1 MAXIMUM FSL DIFFERENCE BETWEEN EITHER SIDE OF CONCRETE BARRIER SHALL BE NO MORE THAN



EXTRUDED CONCRETE BARRIER STANDARD

TL3 TL4 & TL5 SINGLE SLOPE EXTRUDED BARRIER

	PM	PM	DATE: 6/8/19		UNCONTROLLED CO	DPY WHEN PR I NTE	D.
"9	CHECKED:	REVIEWED:	PRINCIPAL STRUCTURAL ENG.	12675652	4004	4	1
ıre	DU	AM	PHIL MOLLOY	40075050	1061	4	1
.	DESIGNED:		ACCEPTED FOR USE:	ACCEPTANCE FORM KNET No.:	DRAWING No.:	SHEET No.:	AMEND N
- 1							

CHANGES TO SINGLE SLOPE CONCRETE BARRIER; NEW TL3 AM PM P. MOLLOY 06/12/2023

. AMENDMENT DESCRIPTION BY CHECK ACCEPTANCE DATE ■ 100 MILLIMETRES ON ORIGINAL DRAWING ■ ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE