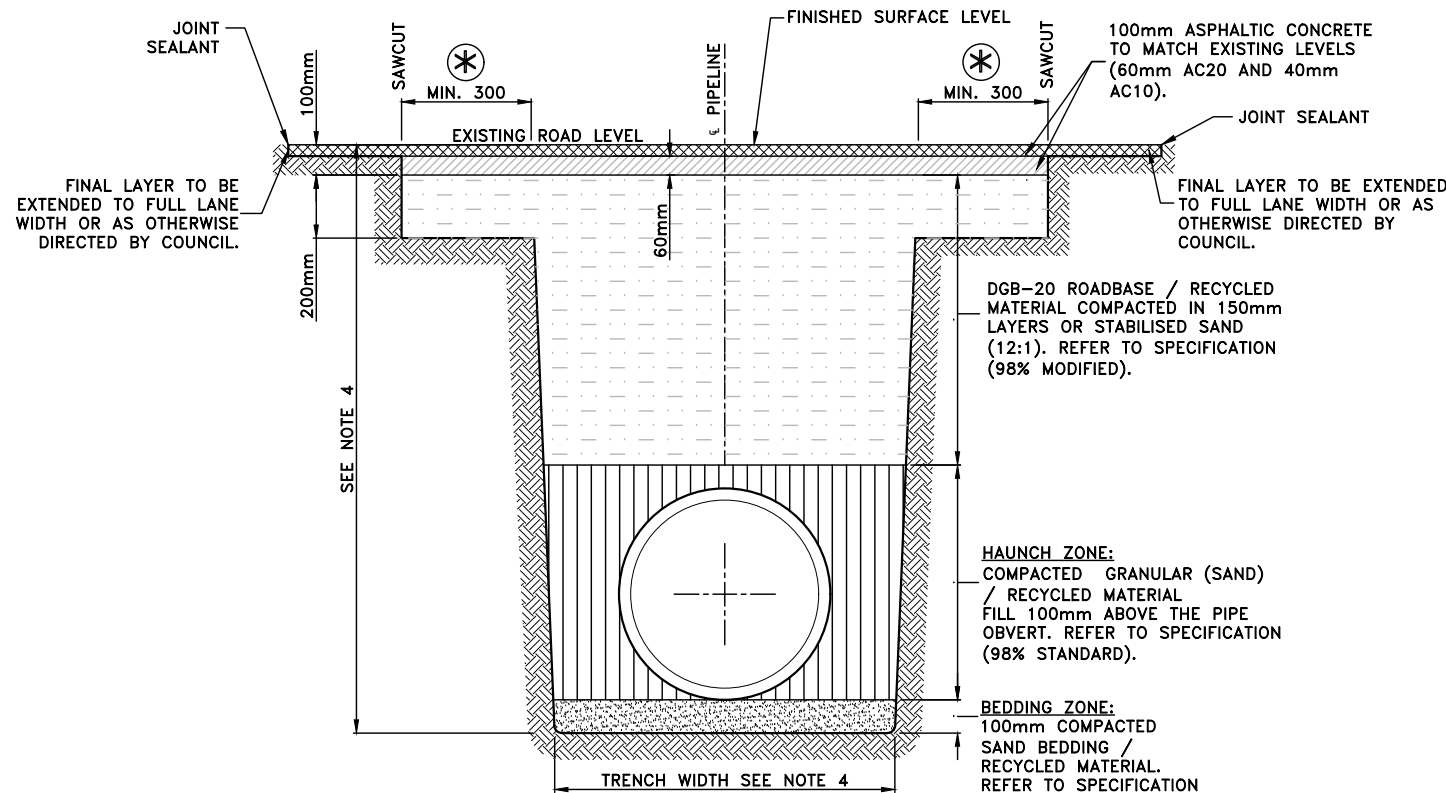


**TYPICAL SECTION—CONCRETE PAVEMENT  
OVER PIPELINE**

**NOTE \***  
THE WIDTH MAY VARY DEPENDING ON THE EXTENT OF DAMAGE TO THE ADJOINING ROAD PAVEMENT BY THE PIPE INSTALLATION WORKS, AND/OR WHERE THE LONGITUDINAL TRENCH IS PARALLEL TO THE ROAD CENTRELINE.  
THE WIDTH OF RESTORATION SHALL BE SELECTED BY COUNCIL TO COVER THE EXTENT OF DAMAGE TO THE ROAD PAVEMENT, RESTORE THE ROAD TO REASONABLE SURFACE FOR THE MOTORISTS AND SUIT STANDARD PAVEMENT MACHINES WIDTH.



**TYPICAL SECTION—FLEXIBLE PAVEMENT  
OVER PIPELINE**

**DRAINAGE NOTES 3:**

1. **CONCRETE STRENGTH**
  - A) DISH CROSSING, ROAD PLATFORM/HUMP, ROAD SLAB: 40MPa @ 28 DAYS
  - B) FOR TRAFFICKED AREAS WHERE FACILITY MUST BE OPEN TO TRAFFIC WITHIN 12 HOURS (EG VEHICLE CROSSING, ROAD SLAB, DISH CROSSING, ROAD PLATFORM/HUMP: 40 MPA WITH ACCELERATOR SUCH AS 2% CAEL (REFER TO SP40HC).
2. **CONCRETE FINISH**
  - A) VEHICLE CROSSINGS, FOOTPATH, CYCLEWAY, ROAD SLABS, PRAM RAMP, ROAD HUMPS/RAMPS – BROOM/BRUSH.
3. **EXCAVATION**
  - A) AT ALL JOINS TO EXISTING CONCRETE/ASPHALT – THE JOIN SHALL BE SAW CUT BEFORE EXCAVATION.
  - B) IN UNDERTAKING TRENCH EXCAVATION, THE CONTRACTOR SHALL PROVIDE ANY SHORING, SHEET PILING OR OTHER STABILISATION OF THE TRENCH NECESSARY TO COMPLY WITH OH&S REGULATION REQUIREMENTS. THE SIDES SHALL NOT BE LOADED & SHALL BE KEPT CLEAR OF LOOSE MATERIAL ETC. SAFE ACCESS & EGRESS SHALL BE PROVIDED AT ALL TIMES.
  - C) THE TRENCH SHALL BE EXCAVATED TO A WIDTH 1.4 TIMES THE EXTERNAL DIAMETER OF THE PIPE, OR TO THE EXTERNAL DIAMETER OF THE PIPE PLUS 300mm ON EACH SIDE, WHICHEVER IS THE GREATER.
  - D) ALL EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT A LICENSED WASTE DISPOSAL FACILITY.
4. **ROAD BASE**
  - A) COMPACTION: 95% STANDARD.
  - B) RECYCLED DGB SPECIFICATION: FOR SUPPLY OF RECYCLED MATERIAL FOR PAVEMENTS, EARTHWORKS, AND DRAINAGE REFER TO SPECIFICATION FOR SUPPLY OF RECYCLED MATERIAL FOR PAVEMENTS, EARTHWORKS AND DRAINAGE' BY IPWEA (NSW) (LATEST EDITION).
5. **RESTORATION OF ADJOINING ROAD PAVEMENT AND EXCAVATION BACKFILL**
  - A) SEALANT FOR JOINT (15 +/- 3mm WIDE), BETWEEN NEW AC OR CONCRETE JOINT AND EDGE OF TRAFFICABLE CONCRETE SLAB OR STRUCTURE, SHALL BE SAMIFILLA HM OR APPROVED EQUIVALENT.
6. **UTILITIES, SERVICES & SURVEY MARKS**
  - A) ALL UNDERGROUND UTILITY SERVICES SHALL BE CHECKED FOR LEVEL AND LOCATION PRIOR TO COMMENCEMENT OF WORKS, BY THE CONTRACTOR.
  - B) ALL SERVICE COVERS AFFECTED BY THE WORKS SHALL BE ADJUSTED AS REQUIRED AND TO SUIT THE LEVELS OF THE NEW WORK. NO SERVICE FITTINGS SHALL BE COVERED.
  - C) STATE SURVEY MARKS (SSMS) – SHALL NOT BE DISTURBED UNLESS APPROVED BY THE COUNCIL ENGINEER.
7. **NATURE STRIP RESTORATION**
  - A) MATCH EXISTING TURF.
  - B) IF NEW TURF IS SPECIFIED – USE SOFT LEAF BUFFALO 'SHADEMASTER', LAID ON 100MM THICK PREPARED TOPSOIL, AS SPECIFIED BY THE COUNCIL ENGINEER.
8. **EXISTING SIGNAGE/LINEMARKING**
  - A) SUCH SIGNAGE SHALL BE REINSTATED UNLESS THE COUNCIL ENGINEER ADVISES OTHERWISE.
  - B) ALL LINEMARKING & SIGNPOSTING AFFECTED BY WORKS SHALL BE REINSTATED IN ACCORDANCE WITH AS 1742 & THE RMS SPECIFICATIONS.
  - C) SIGNS REPLACED OR NEW, WITHIN THE NEW CONCRETE SHALL BE INSTALLED WITH A V-LOK.
  - D) HERITAGE STREET NAME SIGNS EMBEDDED IN FOOTPATH PAVING AND KERBS – CAUTION SHALL BE EXERCISED TO NOT DAMAGE THESE SIGNS AND THE CONTRACTOR SHALL LIAISE WITH THE COUNCIL ENGINEER TO DETERMINE WHAT ACTION TO IMPLEMENT WHERE DISTURBANCE OF THE SIGN IS ESSENTIAL.
9. **ASPHALTIC CONCRETE**
  - A) SHALL CONFORM TO RMS SPECIFICATION R116 – 'ASPHALT (DENSE AND OPEN GRADED)'.
10. **RESIDENT NOTIFICATION**
  - A) ALL RESIDENTS AFFECTED BY THE WORKS SHALL BE NOTIFIED AT LEAST 2 WORKING DAYS BEFORE THE RELEVANT WORK COMMENCES AND ANY REASONABLE REQUESTS ACCOMMODATED.
11. **SAFETY/SIGNAGE/ACCESS**
  - A) DURING CONSTRUCTION, ADEQUATE WARNING SIGNS AND BARRICADING SHALL BE PROVIDED TO ENSURE THAT THE WORK SITE MEETS THE REQUIREMENTS OF AS 1742.2 & 1743.3, AND TO PROVIDE ADEQUATE PROTECTION TO PEDESTRIANS & MOTORISTS.
  - B) ADEQUATE AND SAFE ACCESS FOR PEDESTRIANS SHALL BE PROVIDED AT ALL TIMES.
  - C) AT DRIVEWAYS – PREVENTION OF ACCESS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND ARRANGEMENTS SHALL BE MADE WITH THE RESIDENT/BUSINESS, BY THE CONTRACTOR, FOR A SUITABLE DAY/TIME FOR THIS WORK. USE OF HIGHER STRENGTH CONCRETE, WITH SHORTER CURING TIME MAY BE NECESSARY.
12. **DIMENSIONS**
  - A) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.
13. **GENERAL**
  - A) ALL WORKS SHALL BE CARRIED OUT TO COUNCIL'S SPECIFICATION, TO BEST PRACTICE STANDARDS, AND TO THE SATISFACTION OF COUNCIL'S SUPERVISING ENGINEER.
  - B) THE WORK SITE SHALL BE KEPT IN A CLEAN, TIDY, AND SAFE CONDITION AT ALL TIMES AND TO THE SATISFACTION OF COUNCIL'S ENGINEER.
14. **DOCUMENT PRIORITY**
  - A) THIS PLAN SUPERSEDES ANY STATEMENTS ON OTHER DOCUMENTS, EG SPECIFICATIONS, OTHER PLANS, ETC, UNLESS ADVISED BY THE COUNCIL ENGINEER.
15. **INSPECTIONS**

INSPECTIONS BY THE COUNCIL SUPERVISING ENGINEER SHALL BE REQUIRED AT THE FOLLOWING STAGES AND AS OTHERWISE DIRECTED BY THE COUNCIL ENGINEER:–

  - A) EXCAVATION COMPLETED.
  - B) PIPES LAID BUT NOT BACKFILLED.
  - C) SAND BACKFILL AND COMPACTED.
  - D) DGB BACKFILL & COMPACTED.
  - E) CONCRETE PAVEMENT TO PLAN R3.
  - F) TOTALLY COMPLETED.

**NOTE**  
IF COVER TO OBVERT OF PIPE LESS THAN 300mm, CONCRETE ENCASE WHOLE PIPE.

**NOTE**  
IF COVER TO OBVERT OF PIPE LESS THAN 200mm, CONTACT COUNCIL'S ENGINEER FOR FURTHER INSTRUCTIONS.

(ORIGINAL = A3 SHEET)

CHECKED & APPROVED	SURVEYED & DRAFTED	QUANTITIES	SERVICES AFFECTED	S.R.A. / SURV. GEN.	SERVICES	DATUM	FILE NO.	SHEET NO.
DESIGNED	PG/DJT			R.T.A.	TELECOM/OPTUS	A. H. D.		
APPROVED FOR CONSTRUCTION	MAY 2019			A.G.L. / SHELL PIPELINES	GAS	NTS		
				SYDNEY WATER	SEWER			
				TELSTRA / OPTUS	WATER			
				SYDNEY ELECTRICITY	RAILWAY			
				NOTICE OF ENTRY	ELEC. CABLES			
				KERB & GUTTER	OIL PIPELINES			
				NOTICES	STORM WATER			
				DATE				



**INNER WEST COUNCIL**  
**STANDARD DRAINAGE DRAWING – D7**  
**EMBEDDING AND ROAD RESTORATION**  
**FOR PIPE INSTALLATION**

PLAN NO. **D7**  
VERSION **V1**