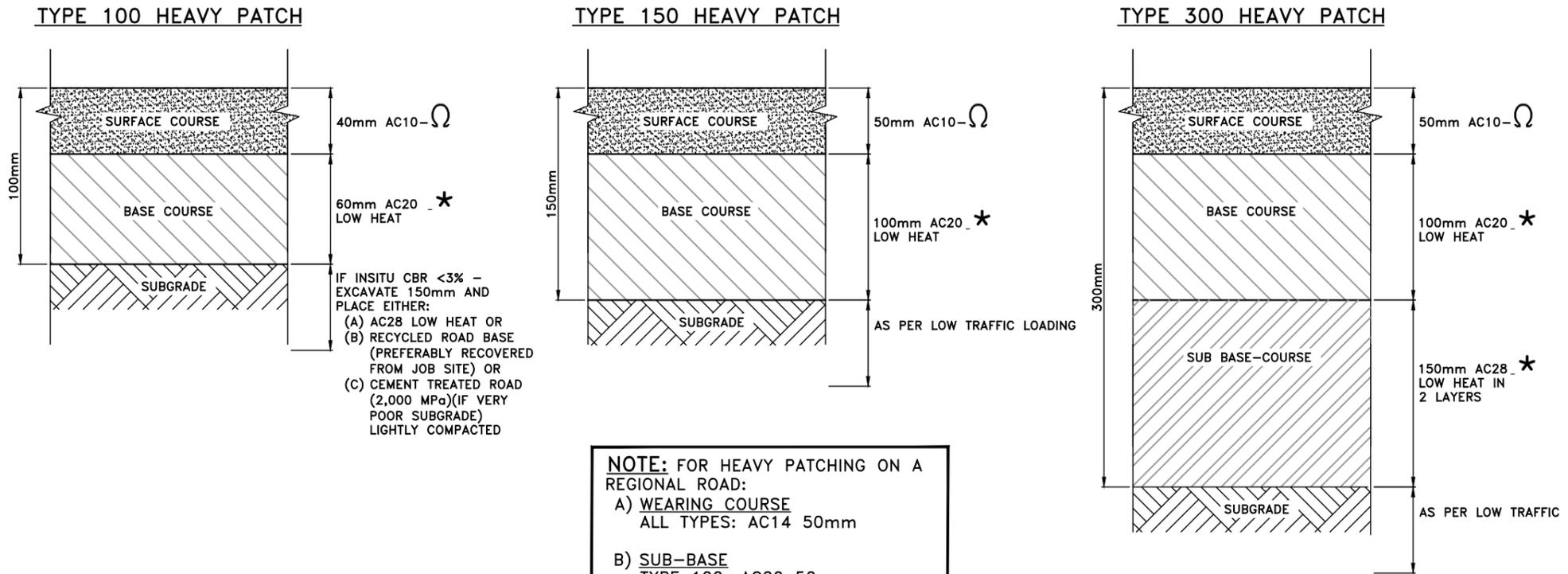


TYPES OF HEAVY PATCHING FOR ROAD PAVEMENT



IF INSITU CBR <3% - EXCAVATE 150mm AND PLACE EITHER:
 (A) AC28 LOW HEAT OR
 (B) RECYCLED ROAD BASE (PREFERABLY RECOVERED FROM JOB SITE) OR
 (C) CEMENT TREATED ROAD (2,000 MPa)(IF VERY POOR SUBGRADE) LIGHTLY COMPACTED

NOTE: FOR HEAVY PATCHING ON A REGIONAL ROAD:
 A) WEARING COURSE
 ALL TYPES: AC14 50mm
 B) SUB-BASE
 TYPE 100: AC20 50mm
 ALL OTHER TYPES (i.e. TYPE 150 AND 300): AS SHOWN

ROAD NOTES 4:

1. **ASPHALT**
 - A) DESIGN BASED ON A TYPICAL SYDNEY BASIN CLAY - CBR = 3% (4 DAY SOAKED)
 - B) ALL AC TO AS2150, AS2758.5, AS2008, AS2891 AND RMS QA SPECIFICATIONS R116, BUT ANY REQUIREMENTS/SPECIFICS ON THIS PLAN TAKE PRIORITY.
 - C) MUST USE RAP IN MIX - 10%-20%
 - D) BITUMEN CLASS: 320
 - E) IF TESTING - SHALL ASCERTAIN THE FOLLOWING: PROFILE & TYPE OF EXISTING PAVEMENT, SUBGRADE CBR (4 DAY SOAKED), SUBGRADE CBR INSITU (PENETROMETER), TRAFFIC LOADING OVER 20 YEARS AND DEFLECTION ANALYSIS OF EXISTING PAVEMENT (FALLING WEIGHT DEFLECTOMETER)
 - F) THESE TYPE OF PAVEMENTS ARE ECONOMICAL IN URBAN AREAS AND PARTICULARLY HIGH VOLUME TRAFFICKED ROADS, INTERSECTIONS, AND SHOPPING CENTRES AS VERY RAPID CONSTRUCTION, EGL EXCAVATION, BASE COURSE AND CORRECTION COURSE ON ONE DAY OR NIGHT (EITHER IN FULL ROAD OR HALF ROAD WIDTH). COMPARED TO CONVENTIONAL ROAD BASE PAVEMENTS - MASSIVE SAVINGS IN HAULAGE AND DISPOSAL COSTS OF EXCAVATED MATERIAL PLUS MUCH LOWER RISK OF ENCOUNTERING UTILITIES AND SERVICES
2. **EXCAVATION**
 - A) AT ALL JOINS TO EXISTING CONCRETE/ASPHALT - THE JOIN SHALL BE SAW CUT BEFORE EXCAVATION.
 - B) ALL EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT A LICENSED WASTE DISPOSAL FACILITY.
3. **ROAD BASE**
 - A) RMS SPECIFICATION FOR DGB AND CEMENT TREATED.
 - B) FOR RECYCLED ROAD BASE-REFER TO 'SPECIFICATION FOR SUPPLY OF RECYCLED MATERIAL FOR PAVEMENTS, EARTHWORKS AND DRAINAGE' BY IPWEA (NSW) 2010 OF LATEST EDITION.
4. **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) PROPERTY STORMWATER PIPES: WHERE AFFECTED, SHALL BE
5. **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.
6. **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.
7. **DIMENSIONS**
 - A) ALL DIMENSIONS ARE IN MILLIMETERS UNLESS SHOWN OTHERWISE.
8. **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.
9. **DOCUMENT PRIORITY**
 - A) THIS PLAN SUPERSEDES ANY STATEMENTS ON OTHER DOCUMENTS, EG SPECIFICATIONS, OTHER PLANS, ETC, UNLESS ADVISED BY THE COUNCIL ENGINEER.
10. **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) SUBGRADE COMPACTED, INCLUDING ANY IMPROVEMENT LAYER
 - C) SUB-BASE LAID AND COMPACTED
 - D) BASE-COURSE LAID AND COMPACTED
 - E) SURFACE LAID AND COMPACTED
 - F) COMPLETED.

REPLACED WITH 90MM UPVC OR TO SUIT EXISTING AND INVERT SHALL MATCH THE GUTTER LEVEL.
 D) STATE SURVEY MARKS (SSM'S) -SHALL NOT BE DISTURBED UNLESS APPROVED BY THE COUNCIL ENGINEER.

VERY IMPORTANT:

Ω = ADD A15E MODIFIER FOR INCREASED STABILITY TO REDUCE RISK OF RUTTING AND SHOving - ONLY APPLICABLE ON MEDIUM TO HEAVY TRAFFICKED ROADS AND PARTICULARLY AT TRAFFIC SIGNALS, STOP & GIVEWAY APPROACH LANES, ROUNDABOUTS, CHICANES AND EXIT LANES FROM SPEED HUMPS AND PLATFORMS.
 * = MUST BE LAID WITH A GRADER (PREFERABLY) OR TRACKED LOADER OR BACKHOE (FOR HEAVY PATCHING ONLY) - NEVER WITH AN AC PAVING MACHINE (REGARDLESS IF WHEELED OR TRACKED) - OTHERWISE HIGH RISK OF SUBGRADE DAMAGE, INSTABILITY AND INTRUSION OF SUBGRADE INTO AC BASE COURSE DUE TO PAVING MACHINE AND EVEN MORE SO, THE LOADED AC TRUCK. THIS METHOD HAS BEEN PROVEN SINCE 1976.

NOTE: CAN BE REFINED BY TESTING

(ORIGINAL = A3 SHEET)

CHECKED & APPROVED	DESIGNED PG/DJT MAY 2019	QUANTITIES	SERVICES AFFECTED	S.R.A. / SURV. GEN. R.T.A. A.G.L. / SHELL PIPELINES SYDNEY WATER TELSTRA / OPTUS SYDNEY ELECTRICITY NOTICE OF ENTRY KERB & GUTTER NOTICES	SERVICES TELECOM/OPTUS -T-T-T-T- GAS -G-G-G-G- SEWER -S-S-S-S- WATER -W-W-W-W- RAILWAY -R-R-R-R- ELEC. CABLES -E-E-E-E- OIL PIPELINES -P-P-P-P- STORM WATER -SW-SW-SW-	DATUM A. H. D.	SCALES NTS	INNER WEST COUNCIL STANDARD ROAD DRAWING - R7 ASPHALTIC CONCRETE ROAD HEAVY PATCHING	FILE NO.	SHEET NO.
APPROVED FOR CONSTRUCTION	DRAWN PG/DJT MAY 2019									
									PLAN NO. R7	VERSION V1