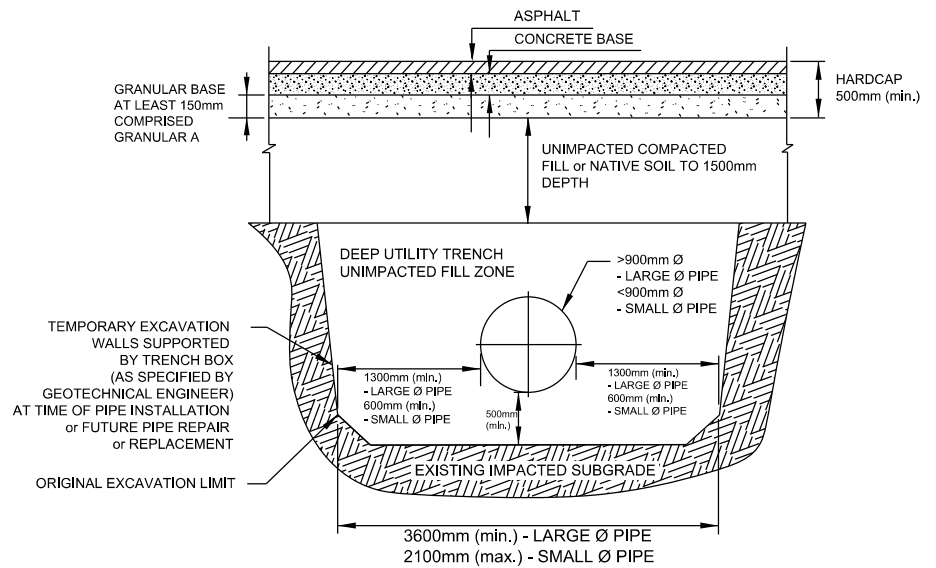


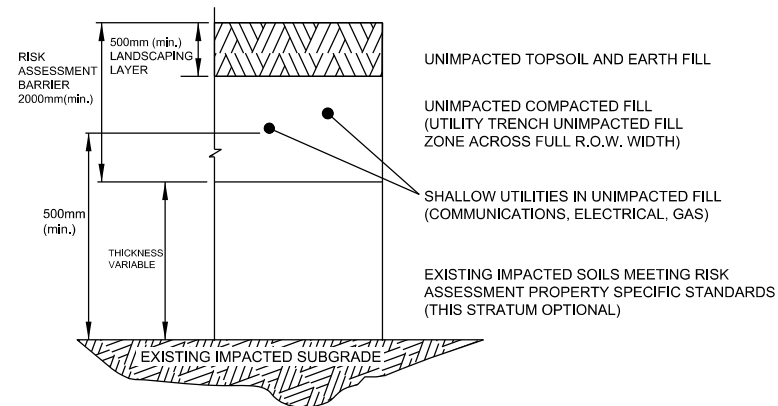
TYPICAL FLEXIBLE ASPHALT PAVEMENTS (LIGHT LOADS - SIDE STREETS AND LANES) AND TYPICAL DEEP UTILITIES (WITH OPEN CUT EXCAVATION FOR INSTALLATION AND REPAIR)



COMPOSITE PAVEMENT DESIGN (HEAVY LOADS - MAIN STREETS AND TYPICAL UTILITIES) WITH TRENCH BOX SUPPORT EXCAVATION FOR INSTALLATION AND REPAIR

NOTES:

1. VERTICAL AND NEAR VERTICAL INSTALLATIONS SHOULD HAVE UNIMPACTED COMPACTED FILL ZONES OF AT LEAST 600 MM IN WIDTH SURROUNDING THE PIPE OR SHAFT TO AT LEAST 3 M BELOW FINAL GRADE. WHERE UTILITY PIPE LATERALS ENTER THE VERTICAL PIPE OR SHAFT, AT A DEPTH BELOW 3M, THE UNIMPACTED COMPACTED FILL ZONE SHOULD BE CONSISTENT WITH THE UNIMPACTED COMPACTED FILL DEPTH PROVIDED TO THE LATERAL PIPE.
2. UNIMPACTED FILL ZONES ARE NOT REQUIRED ADJACENT TO AUGURED OR DRILLED FOUNDATIONS SUCH AS REQUIRED UTILITY POLES OR CAISSON FOUNDATIONS FOR SIGNS.
3. UNIMPACTED FILL TO BE PLACED TO A DEPTH OF 1500 MM BELOW HARD CAP ACROSS THE FULL WIDTH OF THE RIGHT-OF-WAY.
4. FINAL PAVEMENT DESIGN REQUIREMENTS SHALL BE ACCORDING TO PAVEMENT STRUCTURAL DESIGN MATRIX.
5. UNIMPACTED FILL SHALL BE FROM VIRGIN SOURCE OR MEET FILL CAP TARGET CONCENTRATIONS ESTABLISHED IN THE RISK ASSESSMENT. FINAL UNIMPACTED FILL MATERIAL SHALL BE DICTATED BY THE MOECC SHOULD THE LANDS BE SUBJECT TO SOME FORM OF ENVIRONMENTAL REMEDIATION.
6. GRANULAR FILL AND TRENCH BACKFILL MATERIAL SHALL BE FROM VIRGIN SOURCE, RECLAIMED CONCRETE MATERIAL (RCM) OR RECLAIMED ASPHALT PAVEMENT (RAP) SHALL BE ACCORDING TO TS 1010. FINAL GRANULAR FILL AND TRENCH BACKFILL FILL MATERIAL SHALL BE DICTATED BY THE MOECC SHOULD THE LANDS BE SUBJECT TO SOME FORM OF ENVIRONMENTAL REMEDIATION.
7. BENEATH MAIN ROADS TO BE REFURBISHED, THE UTILITY TRENCH UNIMPACTED ZONE FILL WOULD BE INSTALLED WHERE PRACTICAL ON A BEST EFFORT BASIS. IN THE VICINITY OF EXISTING UTILITIES.



ROADWAY SHOULDERS AND BOULEVARDS

All dimensions are in millimetres unless otherwise shown.



ENGINEERING & CONSTRUCTION SERVICES STANDARD DRAWING

CONCEPTUAL DESIGN OF TYPICAL ROAD ALLOWANCE AND DEEP UTILITY BARRIER

REV 0 SEP 2019

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