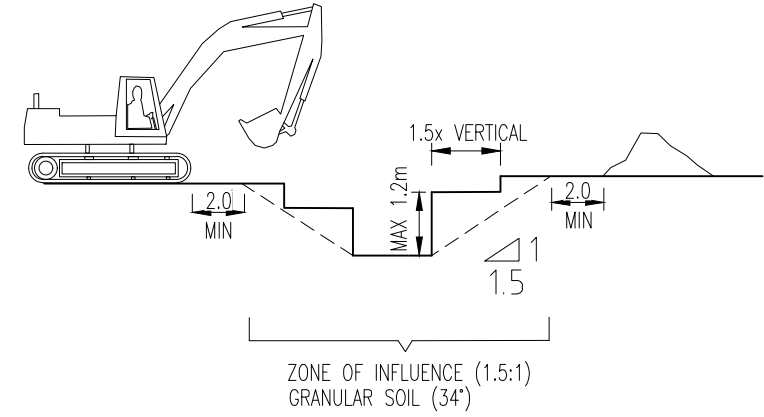
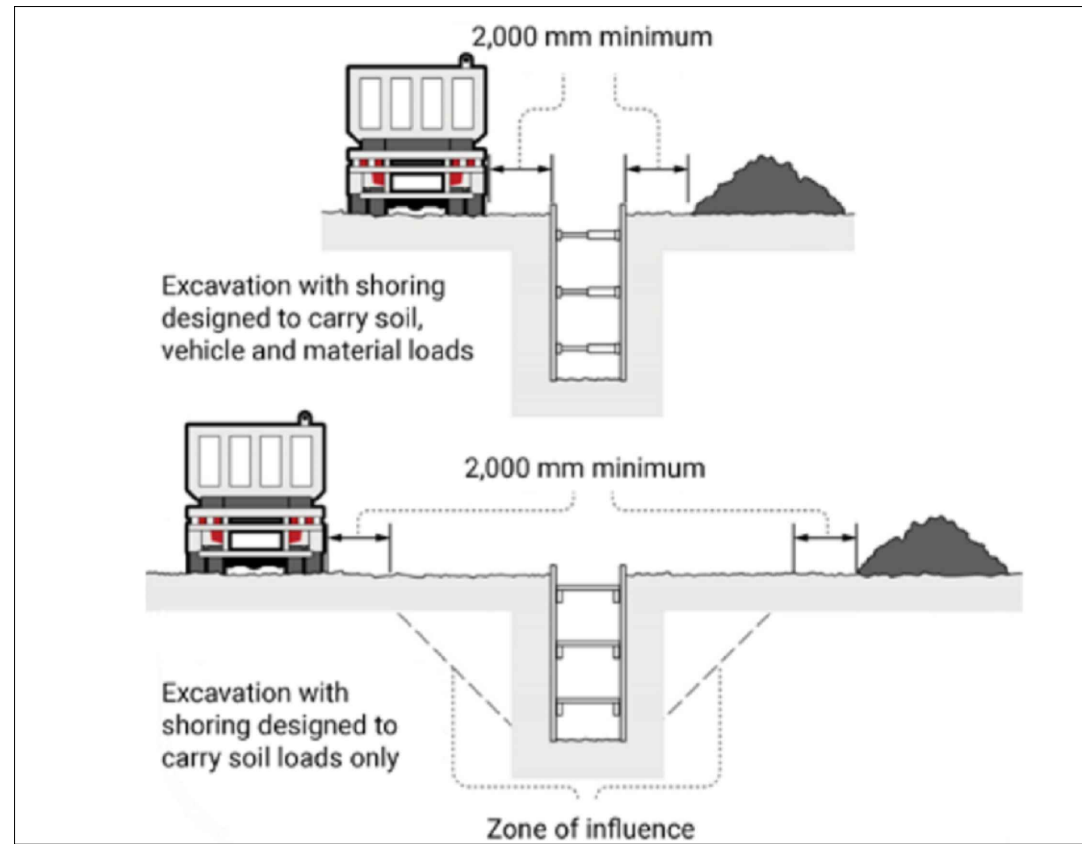


No	REVISION	BY	DATE	AUTH
0	ISSUED	P.W	6/2023	
1	AMENDED DIMENSIONS	P.W	8/2023	



TYPICAL DETAIL

SLOPES WHICH MAY BE SAFE FOR VARIOUS SOIL TYPES. THESE SLOPES MAY NOT BE SAFE IN ALL CONDITIONS.

EXCAVATION BATTERS		
SOIL TYPE	HORIZONTAL/DEPTH RATIO	SLOPE ANGLE
GRANULAR SOILS: CRUSHED ROCK, GRAVEL, NON-ANGULAR POORLY GRADED SAND (SUCH AS 'BASSENDEAN SAND'), LOAMY SAND	1.5:1	34°
WEAK COHESIVE SOILS: ANGULAR WELL GRADED SAND, SILT, SILTY LOAM, SANDY LOAM	1:1	45°
COHESIVE SOILS: CLAY, SILTY CLAY, SANDY CLAY	0.75:1	53°

* ALL EXCAVATION TO BE DONE AS PER THE WA EXCAVATION CODE OF PRACTICE

EXCAVATION BY SHORING

- * ALL EXCAVATION TO BE DONE AS PER THE WA EXCAVATION CODE OF PRACTICE
- * ASSUME SOIL IS GRANULAR SOIL (BASSENDEAN SANDS) UNLESS PROVEN OTHERWISE.
- * FOR MORE CONFINED SITES GEOTECHNICAL ADVICE COULD BE CONSIDERED.
- * MAXIMUM VERTICAL BATTER IS 1.2m.
- * PROJECT MANAGER TO ENSURE "DAILY CHECKLIST FOR EXCAVATIONS GREATER THAN 1.5m" IS COMPLETED.

* INDICATES SIGNATURES ON ORIGINAL ISSUE OF DRAWING.

SCALE: NTS	SCALE IN MILLIMETRES	DATUM: N/A	GRID: N/A	<h1>DRAINAGE</h1> <h2>EXCAVATIONS</h2> <p>EXCAVATIONS BY SHORING / EXCAVATION BATTERS</p>	<h1>CITY OF WANNEROO</h1> <h2>ASSETS</h2>				
DESIGNED: C.O.W. CIVIL DESIGNER	DESIGN CHECKED: * P. WILLIAMS 21/06/23 COORDINATOR DESIGN	APPROVED: * L. NOONAN 27/06/23 COORDINATOR ASSET PLANNING SERVICES					FILE No. N/A	DRAWING No. SHEET REVISION	ORIGINAL DRG. SIZE
DRAWN: C.O.W. CIVIL DESIGNER	DESIGN ARCHIVE:	APPROVED: * B. CHANG 28/06/23 MANAGER ASSET PLANNING					PROJECT No. N/A	TS 03 -11-1	A3
DRAWING ARCHIVE:	STANDARDS CHECK: * J. SONG 27/06/23 TRANSPORT & DRAINAGE ASSET PLANNER	APPROVED: * H. SINGH 28/06/23 DIRECTOR ASSETS		STANDARD					