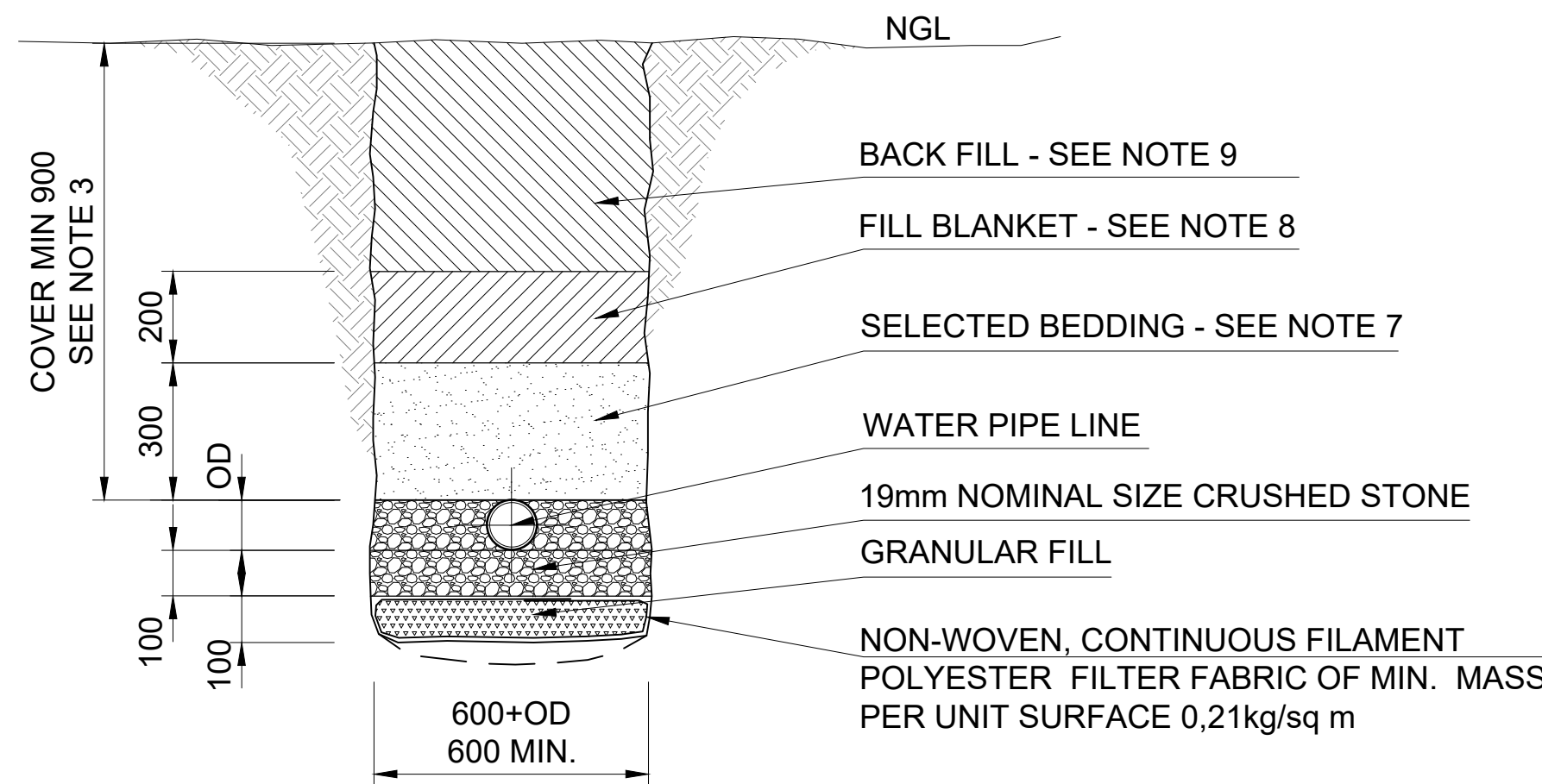
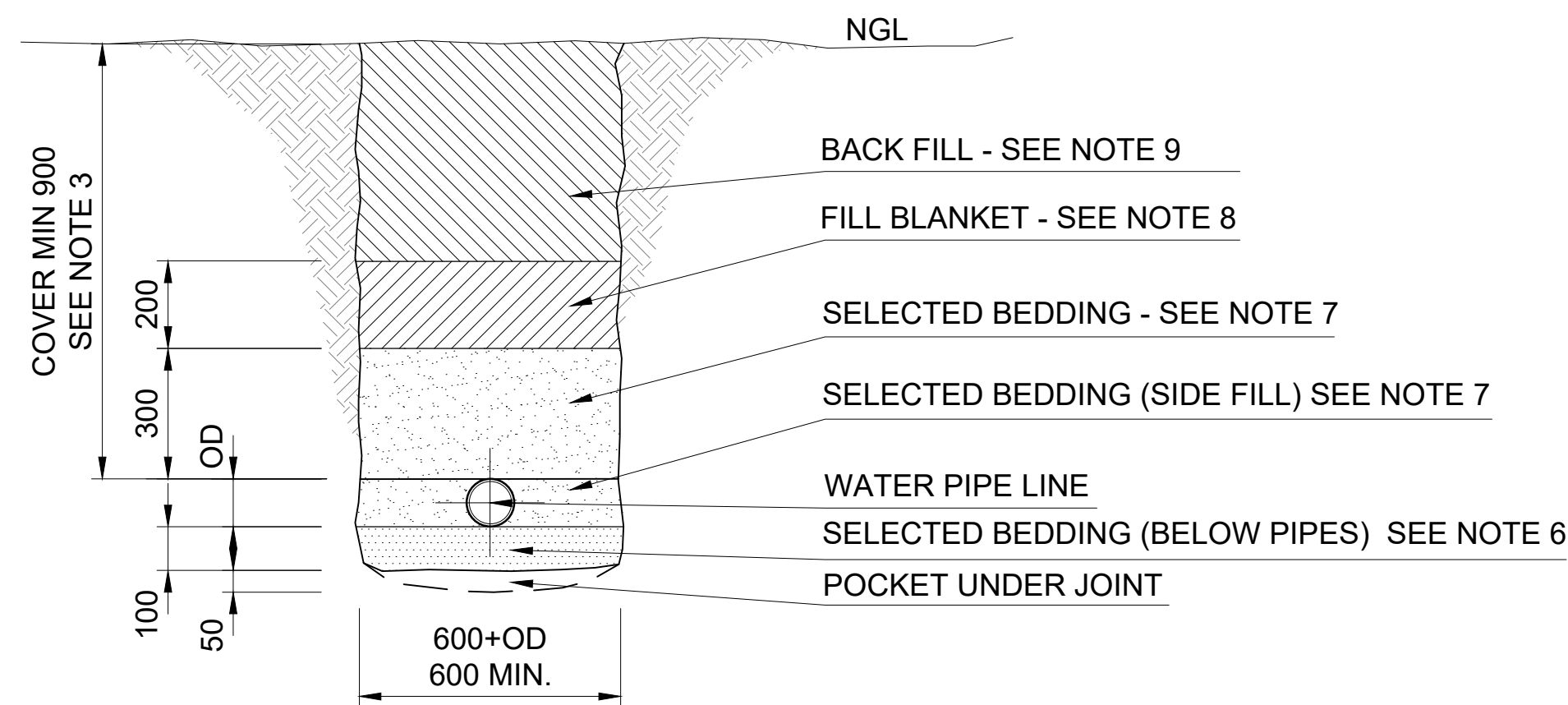




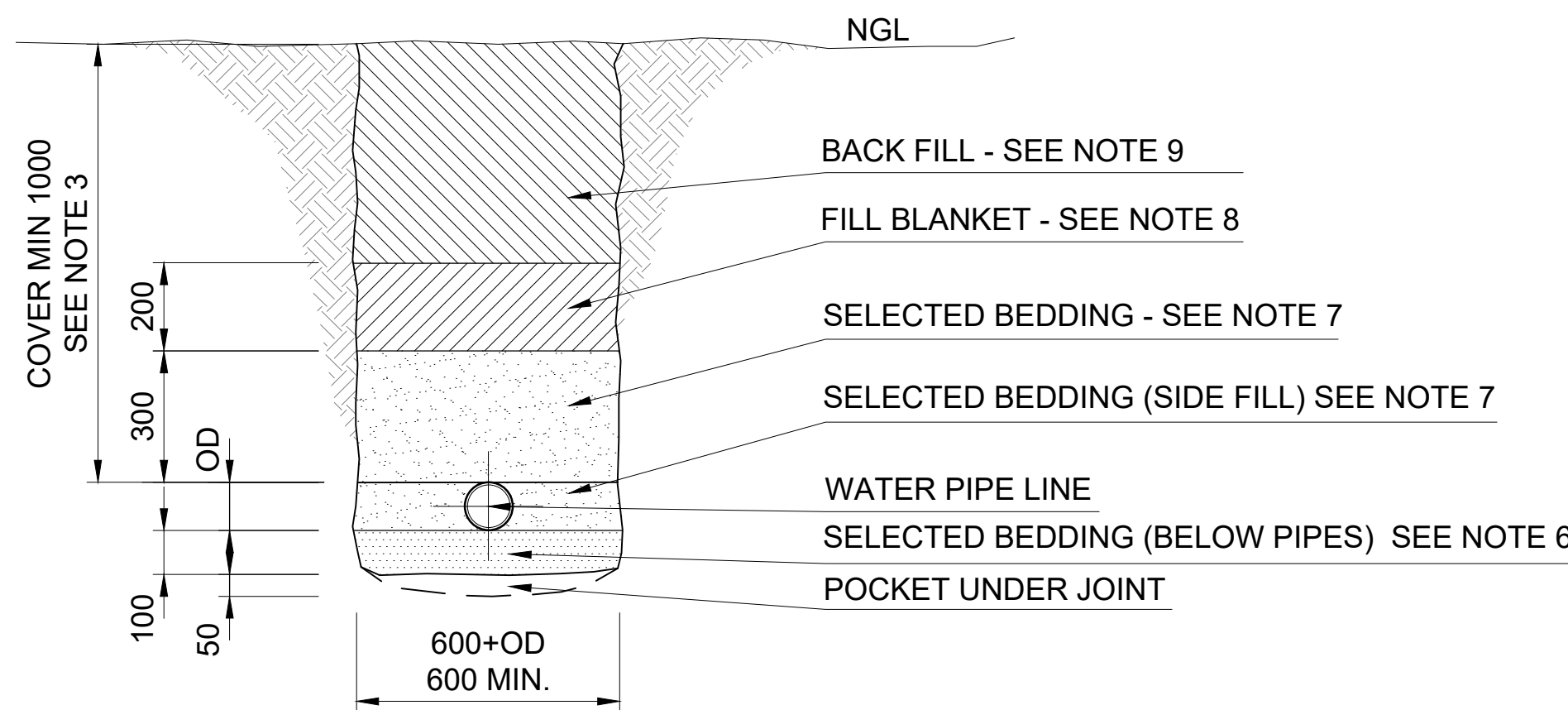
TYPICAL TRENCHING SECTION
IN WATER-LOGGED AREAS

SCALE 1:20



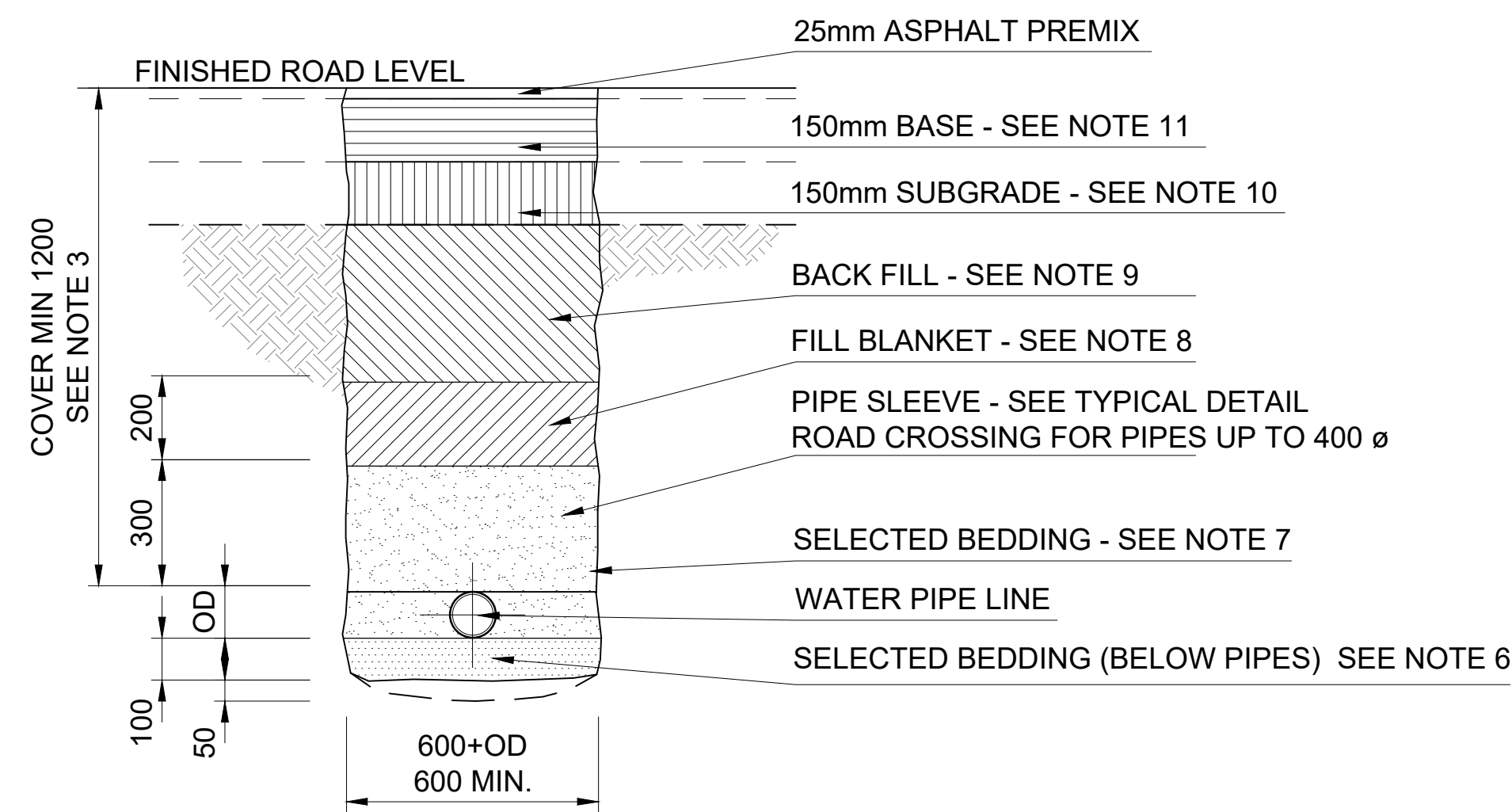
TYPICAL TRENCHING SECTION
IN NON-TRAFFICKED AREAS

SCALE 1:20



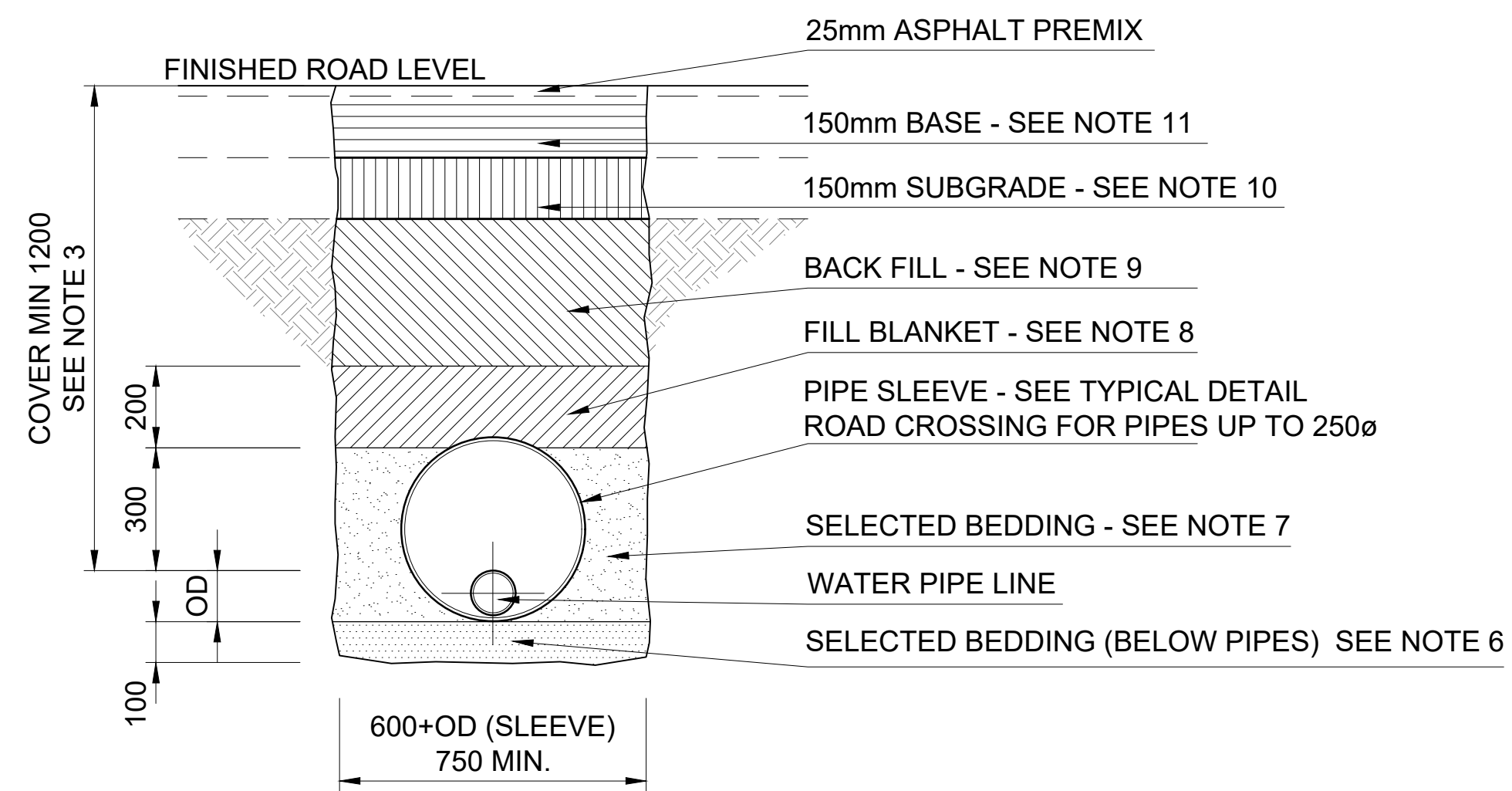
TYPICAL TRENCHING SECTION
IN ROAD RESERVES

SCALE 1:20



TYPICAL TRENCHING SECTION
UNDER ROADS (URBAN)

SCALE 1:20



TYPICAL TRENCHING SECTION
UNDER ROAD WITH PIPE SLEEVE

SCALE 1:20

REFER TO DRAWING ORTDM/STD/10 FOR PIPE SLEEVE DETAILS

NOTES :

- ALL TRENCHING TO COMPLY WITH SABS 1200 IN PARTICULAR :
 - SABS 1200 DB (TRENCH EXCAVATION)
 - SABS 1200 L (MEDIUM PRESSURE PIPELINES)
 - SABS 1200 LB (BEDDING)
- FREEHAUL DISTANCE FROM TRENCH EXCAVATION :
 - FOR BEDDING MATERIAL IS 0.5km
 - FOR DISPOSAL OF SURPLUS MATERIAL IS 1.0km FOR MACHINES
 - FOR DISPOSAL OF SURPLUS MATERIAL IS 0.2km FOR WHEELBARROWS (PSDIA)
- PIPE COVER :
 - PIPES LAID UNDER A ROAD ARE TO HAVE A COVER OF 1200mm.
 - PIPES LAID IN ROAD RESERVES ARE TO HAVE A COVER OF 1000mm AND TO BE CONSIDERED AS "TRAFFICKED").
 - ALL OTHER PIPE ARE TO HAVE A MINIMUM COVER OF 900mm UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PIPES MUST BE BACKFILLED IMMEDIATELY AFTER LAYING, WITH JOINTS LEFT OPEN FOR TESTING
- TRENCHING :
 - THE WIDTH OF THE TRENCH SHALL BE 600mm (300mm EITHER SIDE) GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE WITH A MINIMUM WIDTH OF 600mm
 - THE TRENCH SHALL NOT BE EXCAVATED TOO FAR IN ADVANCE OF THE PIPE LAYING
 - THE BOTTOM OF THE TRENCH SHALL BE FREE FROM STONES, PROJECTIONS, SOFT SPOTS AND SHALL BE UNIFORM
- SELECTED BEDDING - BELOW PIPE :
 - THE BEDDING FREE OF STONES.
 - THE BEDDING SHALL BE A MINIMUM OF 100mm
 - GRANULAR MATERIAL - GRADE 0.6mm TO 19mm NON-COHESIVE, FREE DRAIN MATERIAL (SABS 1200 LB 3.2) UNLESS OTHER WISE STATED IN THE PROJECT SPECIFICATIONS
- SELECTED BEDDING - SIDEFILL :
 - SELECTED BACKFILL MATERIAL SHALL BE PLACES IN EVAN LAYERS OF 150mm OVER THE ENTIRE WIDTH OF THE TRENCH TO A HEIGHT OF 300mm ABOVE THE CROWN OF THE PIPE
 - ALL LAYERS TO BE FIRMLY TAMPED BY HAND
 - GRANULAR MATERIAL - GRADE 0.6mm TO 19mm NON-COHESIVE, FREE DRAIN MATERIAL (SABS 1200 LB 3.2) UNLESS OTHER WISE STATED IN THE PROJECT SPECIFICATIONS
- FILL BLANKET :
 - 200mm THICK
 - "PI" NOT GREATER THAN 6
 - STONES NOT GRATER THAN 30mm (SABS 1200 LB 3.2)
 - COMPACTED TO 90% MOD. AASHTO DENSITY (SABS 1200 LB 5.1.4)
- BACKFILL :
 - BACKFILL SHALL BE UNIFORM READILY COMPACTED MATERIAL FREE FROM TREE ROOTS, VEGETABLE MATTER AND BUILDERS RUBBLE
 - BACKFILL SHALL NOT CONTAIN MORE THAN 10% ROCK AND STONE GRATER THAN 50mm (SABS 1200 DB 3.5)
 - COMPACTED IN LAYERS OF 150mm IN ROAD RESERVES AND OTHER AREAS CONSIDERED AS TRAFFICKED
 - AREAS NOT SUBJECTED TO TRAFFIC LOADS :- COMPACTED IN LAYERS NOT EXCEEDING 300mm TO A COMPACTION OF 90% MOD AASHTO DENSITY (SABS 1200 DB 5.7.2)
 - AREAS SUBJECTED TO TRAFFIC LOADS :- COMPACTED IN LAYERS OF 150mm TO A COMPACTION OF 93% MOD AASHTO DENSITY (SABS DB 5.7.2)
- SUBGRADE :
 - 150mm SUBGRADE LAYER
 - COMPACTED TO 93% MOD AASHTO DENSITY
- BASE
 - 150mm BASE LAYER
 - G1 CRUSHED STONE

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DRAWING No.	REFERENCE DRAWINGS :

0	NOV 2025	ISSUED FOR TENDER	B.S.
NO.	DATE	REVISION	DRAWN

FOR TENDER

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KWAJOBE COMMUNITY WATER
SUPPLY SCHEME: PHASE 1

TYPICAL PIPE TRENCH DETAILS

	SIGNATURE FOR FLUX/SDM	DATE	PRJ.No.	SHEET SIZE
DESIGNED	B.S	SEP 2025		A1
DRAWN	B.S	SEP 2025		SCALE
CHECKED	N.N	SEP 2025		AS SHOWN
APPROVED	N.N	SEP 2025		DWG STATUS
CO-ORDINATOR				P = PRELIMINARY C = CONSTRUCTION

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UKDM/STD/402		0
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