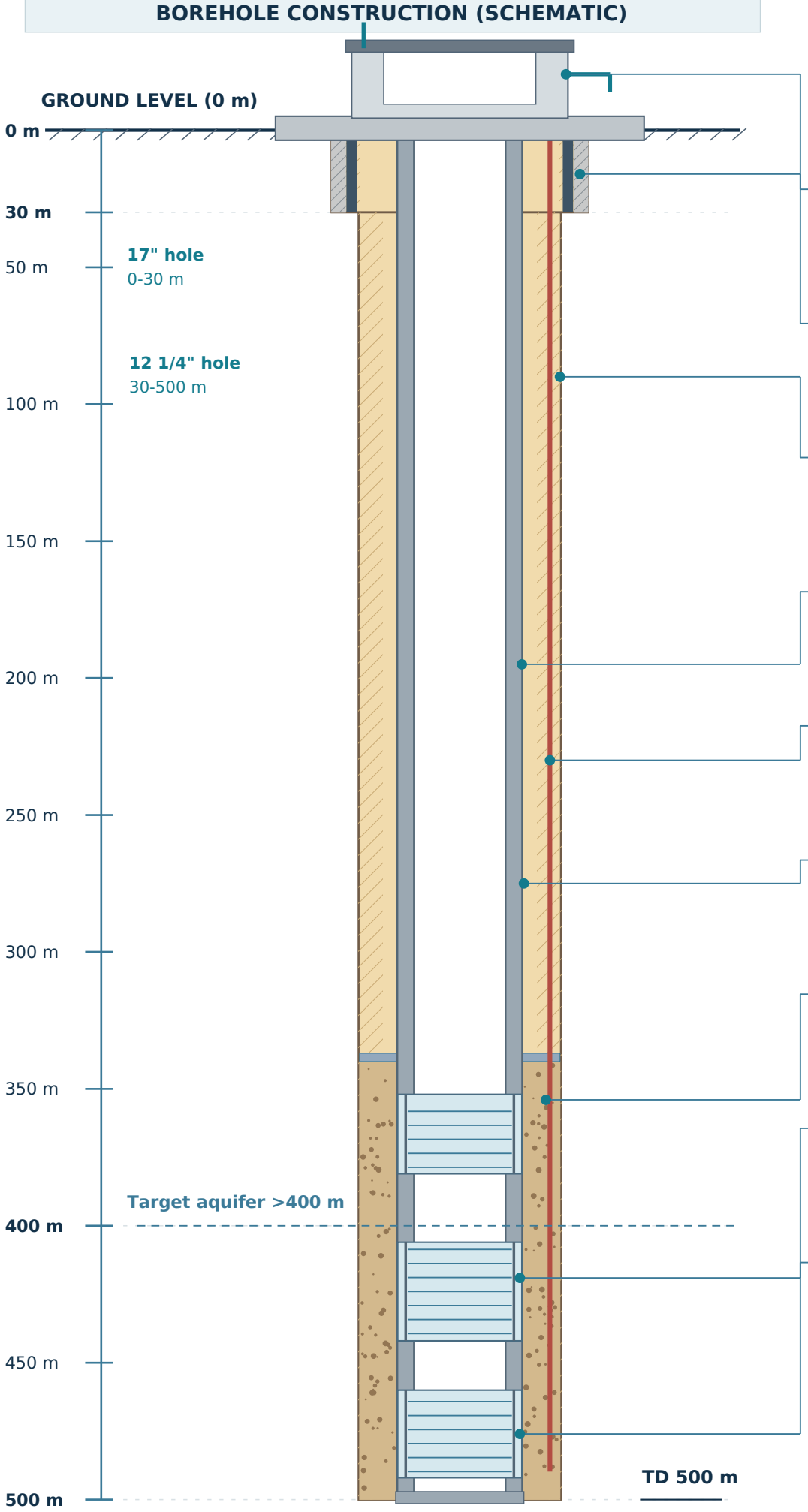
QALOOCATO COMMUNITY | OODWEYNE DISTRICT

DETAILED BOREHOLE CROSS-SECTION

Typical 480-500 m deep borehole | Conceptual section based on SHAAC report and BoQ

DRAWING 01

BOREHOLE CONSTRUCTION (SCHEMATIC)



1 WELLHEAD / SANITARY APRON
Concrete 1:2:2, lockable cap, vent, sampling tap and drainage apron

2 SURFACE CASING + SEAL
14" steel, min. 6 mm wall, 30 m (BoQ); cement-bentonite annular grouting

3 DRILLING DIAMETERS
17" bit: 30 m upper formation; 12 1/4" bit: 470 m to nominal 500 m

4 PRODUCTION BLIND CASING
8" diameter; 350 m total (BoQ); steel or certified uPVC option

5 OBSERVATION PIPE
3/4" GI pipe with cap and fittings; BoQ quantity: 490 m

6 CENTRALIZERS / ACCESSORIES
Center production casing in hole; spacing 10-15 m (technical spec.)

7 FILTER PACK + BENTONITE
30 m3 washed siliceous gravel, 2-6 mm; min. 3 m bentonite seal above gravel

8 8" CONTINUOUS-SLOT SCREENS
150 m total (BoQ); slot size and screen depths set after logging / sieve

9 WELL COMPLETION & TESTING
Development >=12 h; step test 15 h; constant test 72 h + recovery 24 h

TECHNICAL NOTES / ITEMS REQUIRING ENGINEER CONFIRMATION

1. Screen segments and filter-pack depths are ILLUSTRATIVE only; actual intervals depend on drilling logs, geophysical logging and aquifer sieve analysis. Pump rating and installation depth are not set by this BoQ.
2. SHAAC report recommends surface casing to 50 m in one section; BoQ measures 30 m. Confirm final depth.
3. BoQ specifies 8" blind steel 5 mm / screen steel 6 mm, while technical specs specify steel min. 6 mm.
4. Observation pipe: BoQ 490 m; technical specifications state 240 m or total depth. Reconcile before tender.

QALOOCATO BOREHOLE - TYPICAL CROSS SECTION

ACTIVITY	DRAWING	DESIGNED BY	DATE
BOREHOLE DRILLING	DETAILED CROSS SECTION	SHAAC	20/11/2026
CLIENT	**TOTAL DEPTH**	**SCALE**	**REVISION**
QALOCATO COMMUNITY	480-500 m (BoQ 500 m)	NOT TO SCALE	00

SOURCE: SHAAC Qaloocato Hydrogeological & Geophysical Report (July 2026), BoQ pp. 77-78; technical specs pp. 67-74.