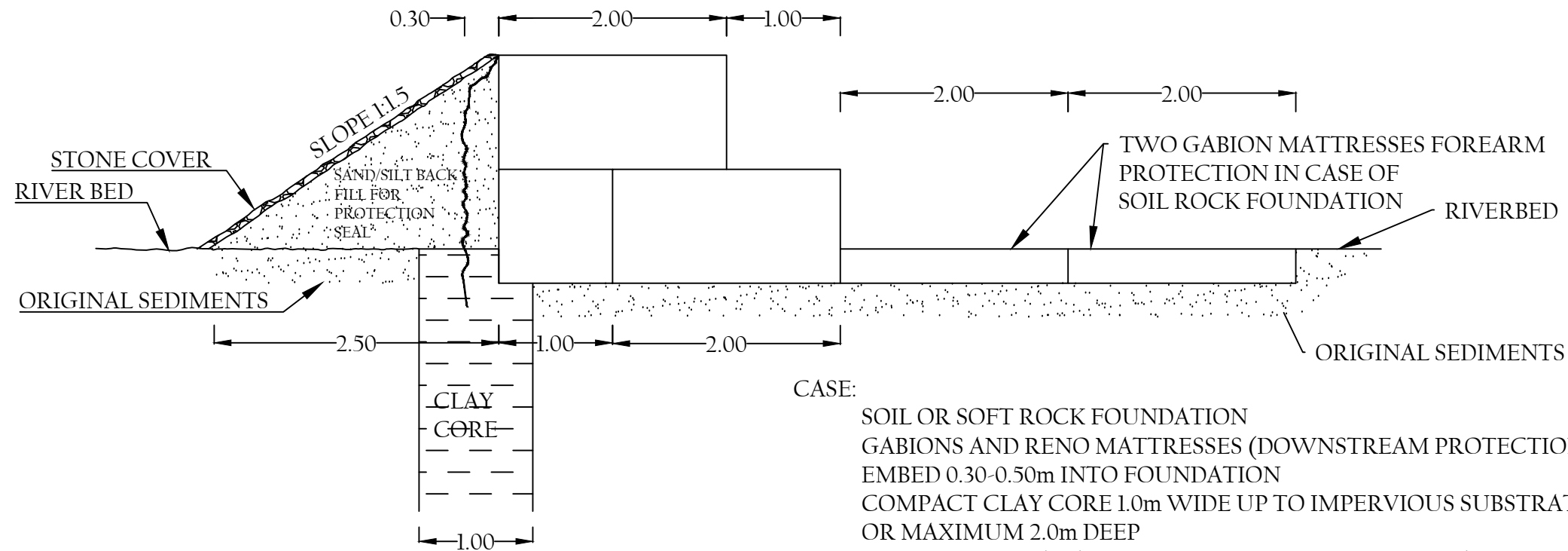


CONSTRUCTION PHASE 1: BASE GABIONS EMBEDDED IN FOUNDATION; UPSTREAM ROW OF GABIONS PLACED LENGTHWISE ACROSS THE RIVERBED; DOWNSTREAM ROW PLACED SIDEWISE ACROSS THE RIVERBED (TRANSVERSE) A ROW OF TRANSVERSE GABIONS ON TOP ALIGNED WITH THE UPSTREAM ROW OF BASE GABIONS AN IMPERVIOUS SEAL IS ADDED UPSTREAM PROTECTED BY SAND/SILT BACKFILL AS SHOWN BELOW

CASE 1: SOFT ROCK/ SOIL FOUNDATION (SEE DRAWING BELOW)  
 BASE GABIONS EMBEDDED 0.30m TO 0.50m DEEP ACCORDING TO HARDNESS OF SUBSTRATE  
 DOWNSTREAM APRON OF TWO GABION MATTRESSES EMBEDDED 0.30m DEEP  
 UPSTREAM CLAY CORE 1.0m WIDE DOWN ONTO IMPERVIOUS LAYER OR 2.0m MAX DEPTH  
 IMPERVIOUS SEAL FIXED MINIMUM 0.50m DEEP IN CLAY CORE

CASE 2: HARD ROCK FOUNDATION (SEE MIDDLE DRAWING)  
 BASE GABIONS EMBEDDED 0.20m TO 0.50m IN FOUNDATION  
 NO DOWNSTREAM APRON NECESSARY  
 UPSTREAM CLAY CORE 0.30m WIDE 0.30m DEEP TO FIX THE IMPERVIOUS SEAL



CASE:  
 SOIL OR SOFT ROCK FOUNDATION  
 GABIONS AND RENO MATTRESSES (DOWNSTREAM PROTECTION)  
 EMBED 0.30-0.50m INTO FOUNDATION  
 COMPACT CLAY CORE 1.0m WIDE UP TO IMPERVIOUS SUBSTRATE  
 OR MAXIMUM 2.0m DEEP  
 IMPERVIOUS SEAL ANCHORED 0.50m MINIMUM IN CLAY CORE

TYPICAL CROSS SECTION (PHASE 1)  
 SCALE 1:50

Client:			Location:		
Surveyed By:			File Name:	Scale:	
Drawn By:			Project: GABION SAND STORAGE DAM; WATER SUPPLY BY GRAVITY FROM SAND STORAGE DAM		
Designed By:			Drawing Title:		
Checked By:					
Approved By:			Drawing No: TYPE DRAWING X	Rev:	Sheet: 14/17