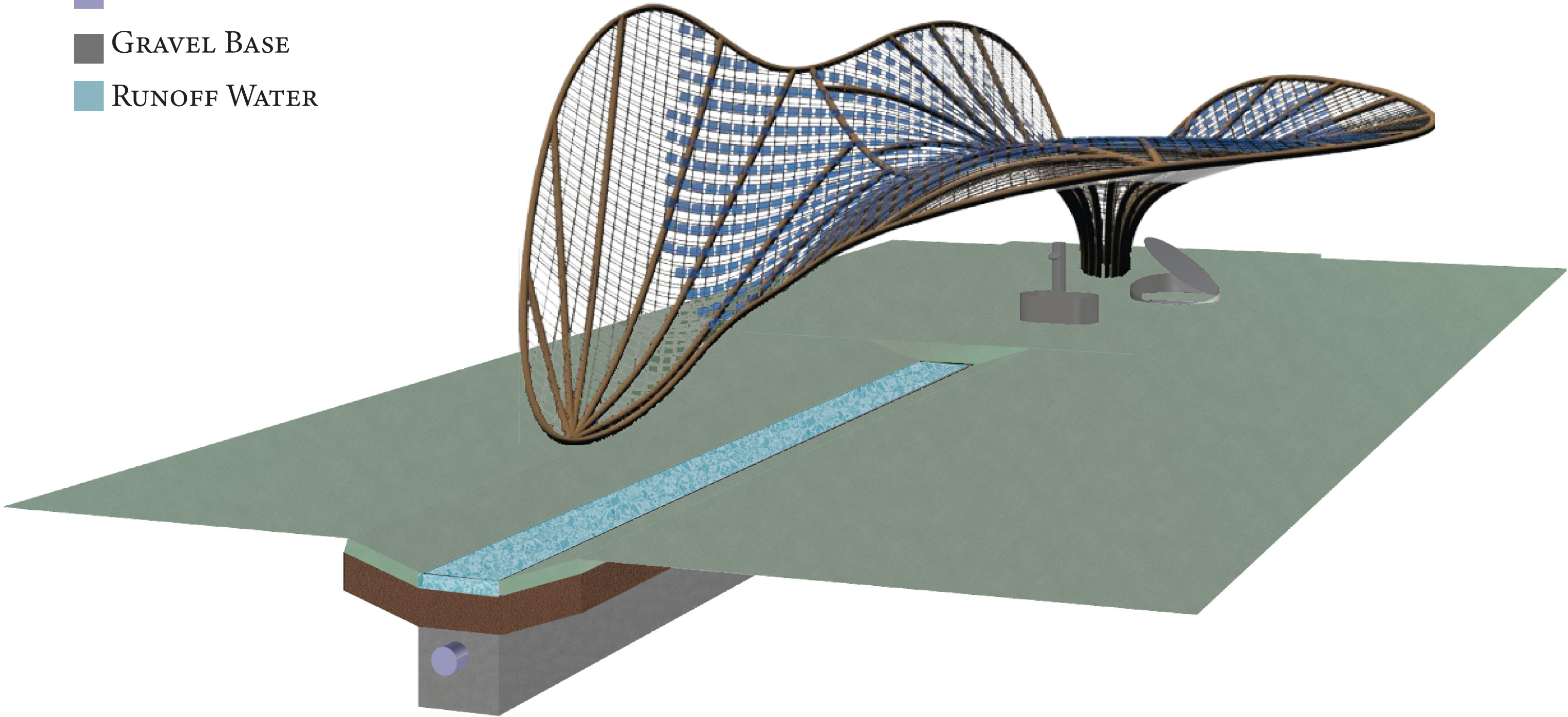


Water System

Bioswale Diagram

Legend:

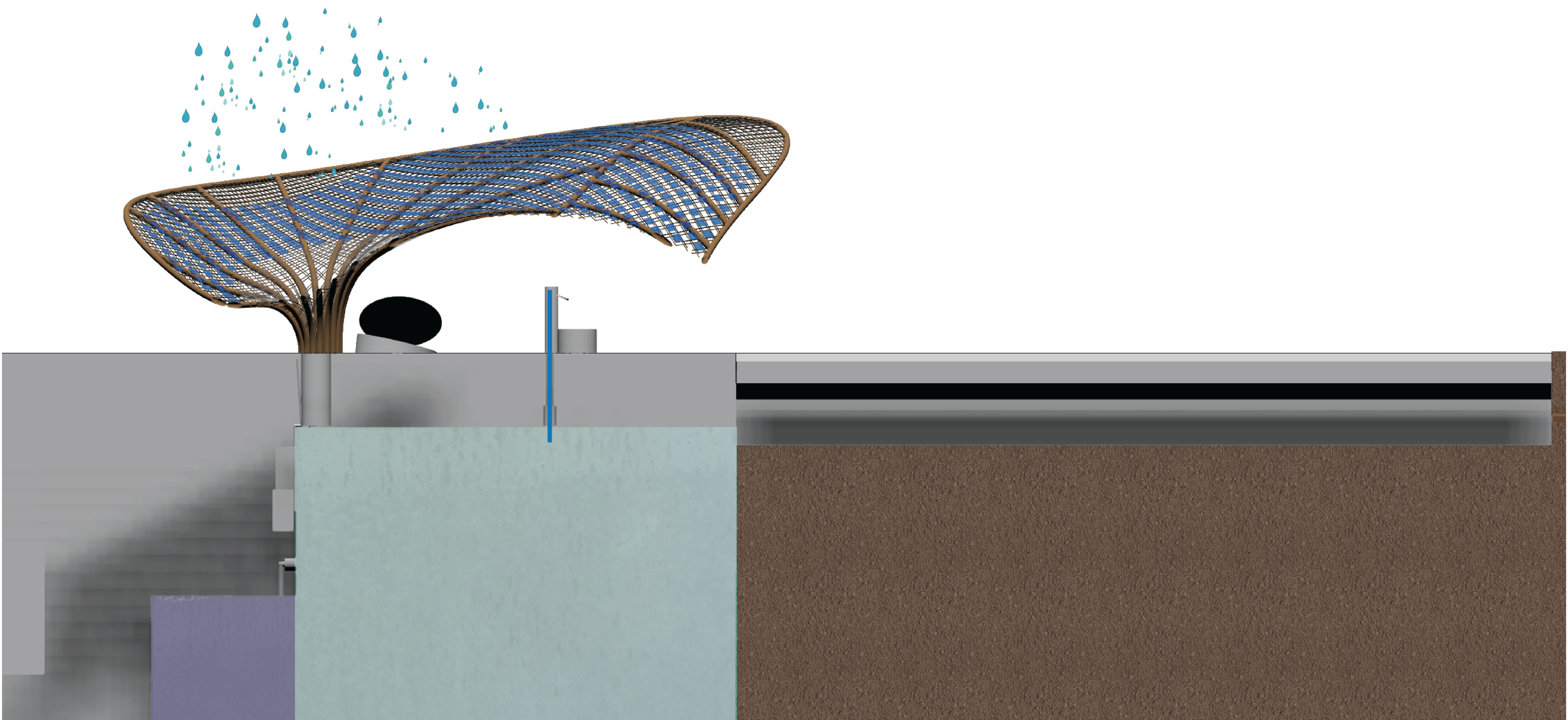
- MULTI LAYERED VEG
- BIO RETENTION SOIL
- PERFORATED PIPE
- GRAVEL BASE
- RUNOFF WATER



Rainwater Harvesting Diagram

Legend:

- FILTERED RAINWATER
- MAIN WATER TANK
- OVERFLOW TANK



Bioswale

A BIOSWALE IS IMPORTANT BECAUSE IT HELPS MANAGE STORMWATER NATURALLY BY SLOWING, FILTERING, AND ABSORBING RUNOFF THROUGH VEGETATION AND SOIL. THIS REDUCES THE BURDEN ON DRAINAGE SYSTEMS, PREVENTS FLOODING, AND IMPROVES WATER QUALITY BY REMOVING POLLUTANTS BEFORE THEY REACH RIVERS OR GROUNDWATER. BIOSWALES ALSO SUPPORT LOCAL ECOSYSTEMS AND CAN ENHANCE THE LANDSCAPE WITH NATIVE PLANTS AND GREEN SPACE.



Rainwater Harvesting

MAROU VILLAGE HAS AN EXISTING STORAGE CAPACITY OF AROUND 900,000 LITERS. TO MATCH OR EXCEED THE EXISTING SYSTEM, OUR CATCHMENT TANK (S) NEEDS TO HOLD AT LEAST 237,755 GALS. OUR IDEA: EIGHT UNDERGROUND TANKS, EACH HOLDING 30K GALS. THREE TANKS NEAR THE SCHOOL, FIVE NEAR THE 67 HOMES. OVERFLOW TANK IS ABOUT TWO SMALLER TANKS NEXT TO EACH OTHER HOLDING 12K GALS.

