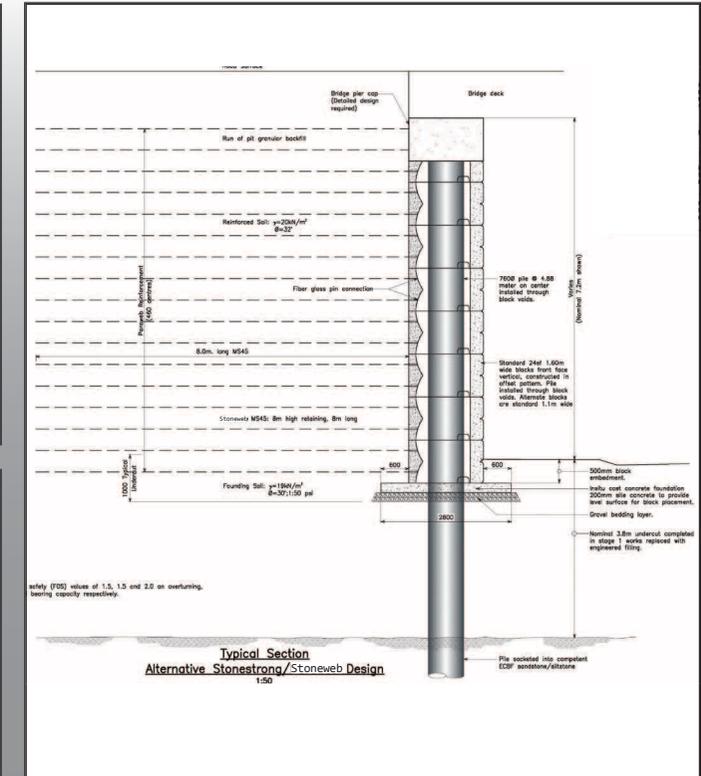


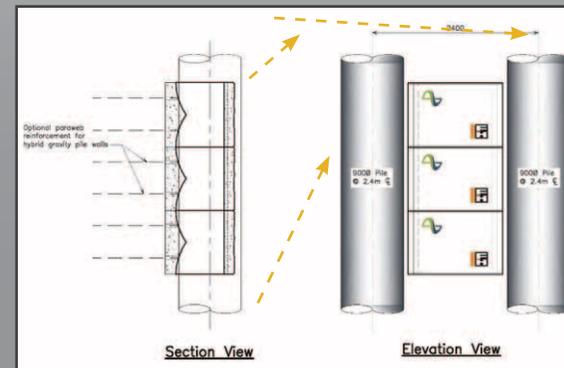
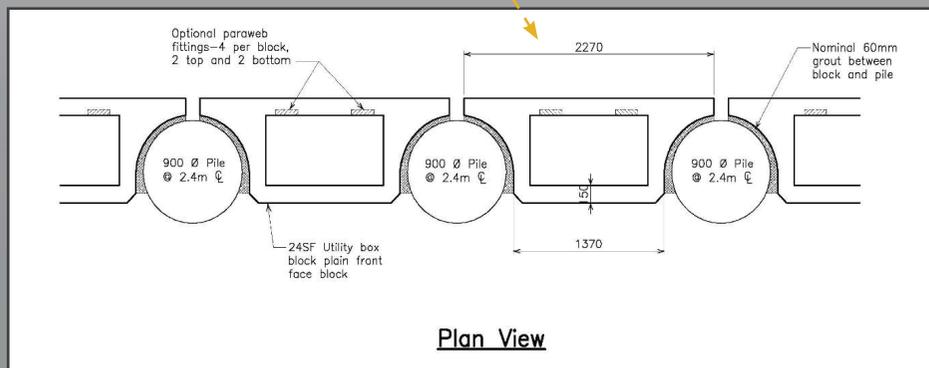
STONESTRONG AUSTRALIA WIDE BLOCKS 1.6M AND 2.2M

- Two additional standard block sizes are available – 1.6 and 2.2m front to back – current 24SF block is 1.1m.
- Suitable for gravity walls up to 5m high.
- Can be used as “Pile Through” blocks – the internal voids will allow for pile casing diameters from 600 to 900mm as well as driven steel H pile and driven open casing piles to 760mm diameter.
- Allows for bridge abutments to be constructed prior to any bridge abutment piling – bridge piles can be subsequently drilled or driven through wide block voids.
- Allows for abutment construction to be separated from bridge construction at contract stage.
- Pile Through System can be integrated with gravity retaining wall design or Stoneweb MSE design (See additional data sheet).



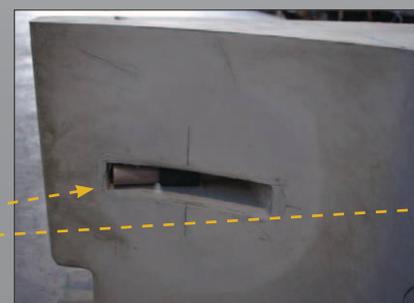
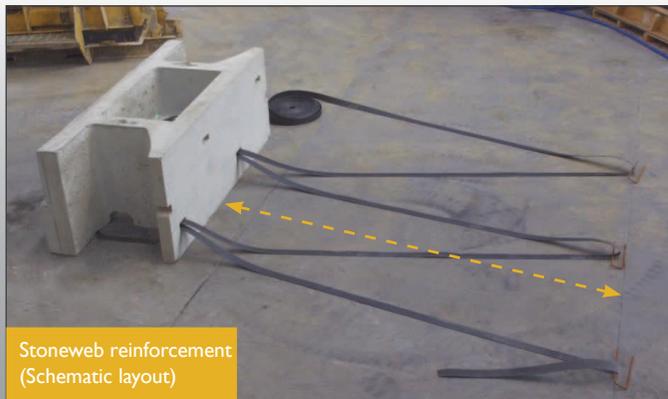
STONESTRONG AUSTRALIA PILED WALL & BRIDGE ABUTMENT BOX BLOCK SYSTEM

- Standard 2.44m long Stonestrong block detailed for placement around 760mm to 1200mm diameter piles at pile centres between 2.3 and 2.6m.
- Provides significantly more cost effective retaining alternative than panels slotted into piles – smaller diameter piles (760mm, 900mm, 1050mm) can be used due to more efficient pile reinforcing steel detail.
- Lateral soil loads are transferred onto pile through outer block wings; annulus between pile and block is grout filled.
- Box blocks can be used as MSE blocks with Stoneweb reinforcement in combination with gravity retaining wall design on lower height or upper parts of retaining structure.
- Blocks can be left hollow to save on backfill material costs and can be used multiple times in sequential temporary structures due to robust construction.



STONESTRONG AUSTRALIA STONEWEB REINFORCED MSE RETAINING WALLS AND BRIDGE ABUTMENTS

- Standard 1.1m wide Stonestrong block detailed for Stoneweb reinforcement – retained heights in excess of 18 metres available.
- Stoneweb loops attached with 38mm fiberglass pins slotted into precision cast connection voids within block back-face – 100% block/geosynthetic connection strength, excellent seismic performance.
- Wide range of backfills can be accommodated with system – cohesive materials to “Run of Pit” / “Run of Excavation” (ROP/ROE) rotten rock through to premium GAP40/GAP65 aggregates.
- Used in combination with gravity retaining wall design on lower height or upper parts of retaining structure.
- Stonestrong block provides substantial front-face and exceptional wall-face stability and performance.
- System fully interchangeable with standard 1.1, 1.6 and 2.2m gravity blocks, 2.0 and 2.5m extended web blocks – Stoneweb fittings available for all block types.



STONESTRONG AUSTRALIA TRAFFIC BARRIERS TO NZTA REQUIREMENTS

- Standard NZTA F shape Traffic Barrier – detailed for standard barrier reinforcement with additional impact strength from block webs.
- Standard F shape 810mm high with additional 110mm in base of block for added embedment.
- Block designed to be integral element of roadside retaining wall (either gravity or MSE dependant on wall height and retained slope conditions).
- Can be installed on 1.1m or 1.6m wide blocks.
- Top block version available to allow for alternative steeper vegetated facings above block, sloping road gradients accommodated with tapered block step down.
- Can be used as “Pile Through” blocks to accommodate high TL4, TL5 & TL6 barrier loads where used between opposing lanes – 550mm diameter piles at 1.22m centres.
- Rapid construction, minimum installation width and one pass construction.

