

Appendix E
Illustrations of Long-list Options

PAGE LEFT BLANK FOR DOUBLE SIDED PRINTING

**Illustration of Options for Frontage A: Jacob 's Ladder Beach and
Connaught Gardens (Chit Rocks)**

Figure E-1

The current seawall at Jacob's Ladder beach, which would be maintained in this form under Long-list Options A.2 and A.3.



FIGURE E-2

Long-list Option A.4 (Maintenance of rock revetment around Chit Rocks, including re-packing of rock at western end where it adjoins Jacob's Ladder Beach and extension of rock armour along toe of Jacob's Ladder Seawall (approx. 10-20m extension envisaged))



Illustration of Options for Frontage B: Sidmouth Town

FIGURE E-3

Long-list Option B1.a - Maintain existing defence configuration. Repair/replace training wall along same alignment. Undertake periodic beach recycling only with available sediment. Raise height of seawall along front (seaward) edge of promenade to reduce volume of wave overtopping at some point in the future.



FIGURE E-4

Long-list Option B.1b - As Option B.1a, but raise height of seawall along back (landward) edge of promenade to reduce risk of propagation of wave overtopping at some point in the future (i.e. replace existing low-level flood barrier/flood gate system with a higher, more robust structure and flood gate system).



FIGURE E-5

Long-list Option B2.b – Maintain existing defence configuration and design (i.e. seawall, offshore reefs, 3 rock groynes). Repair and shorten training wall and East Pier lengths. Undertake periodic beach recharge, supported by periodic beach recycling.



FIGURE E-6

Long-list Option B3 (a and b) - Remove breakwaters and groynes and training wall and replace with large-scale rock revetment, or concrete revetment, along frontage.



FIGURE E-7

Long-list Option B3.a - Remove breakwaters and groynes and training wall and replace with large-scale rock revetment along frontage.



FIGURE E-8

Long-list Option B3.b - Remove breakwaters and groynes and training wall and replace with concrete stepped revetment along frontage.



FIGURE E-9

Long-list Option B4.a - Modify existing Bedford Steps, York Steps and East Pier rock groynes (from existing length) to make 'T-head' type groynes to retain sediment in small stable bays between each groyne bay. Support with periodic beach recycling and/or recharge to retain volume to give required design beach. Repair/replace training wall.



FIGURE E-10

Long-list Option B4.b - As Option B.4a but shortening East Pier groyne in the process. Repair/replace training wall and shorten its length.



FIGURE E-11

Long-list Option B.4c - As option B.4a, but remove training wall and place rock-armour around seawall where it curves into the River Sid.



FIGURE E-12

Long-list Option B4.d - As Option B.4a, but remove East Pier rock groyne and training wall and place rock-armour around seawall where it curves into the River Sid.



FIGURE E-13

Long-list Option B5.a and b- Remove the three rock groynes and training wall. Construct additional offshore rock breakwaters (height and number to be determined at later date)



Illustration of Options for Frontage C: East Beach

Figure E-14

Long-list Option C.1a and b - Construct one or two short/low-level rock groynes about 150-200m east of the River Sid to aid beach levels control as scheme transitions eastwards from hold the line at Sidmouth to no active intervention to the east.(and supported by periodic beach recycling)



FIGURE E-15A

Long-list Option C.2 - Construct 210m rock revetment along base of cliff.



FIGURE E-15B

Long-list Option C.2 - Construct 210m rock revetment along base of cliff.



FIGURE E-16

Long-list Options C.3a and b - Construct 210m rock revetment along frontage, offset 5-10m from the base of cliff. (No cliff regrading shown)



FIGURE E-17

Long-list Options C.4a and b - Construct 3 low-level rock groynes along base of cliff over a length of approximately 210m east of the River Sid.



FIGURE E-18A

Long-list Options C.5a and b - Construct 50m rock revetment along base of cliff immediately east of the River Sid (i.e. around Pennington Point). (No cliff regrading shown)



FIGURE E-18B

Long-list Options C.5a and b - Construct 50m rock revetment along base of cliff immediately east of the River Sid (i.e. around Pennington Point). (No cliff regrading shown)



FIGURE E-19

Long-list Options C.6a and b - Construct a 35m 'T-head' type rock groyne along base of cliff immediately east of the River Sid (i.e. around Pennington Point).



FIGURE B-20

Long-list Options C.7a and b - offshore breakwaters (height to be determined) tapering towards the eastern end of the BMP area. Beach recharge would not occur along East Beach, only along Sidmouth Town frontage, but removal of groynes/training wall would enable transport along the shoreline of the recharge material placed along Sidmouth Town frontage.

