F1: Provide 110m² flow conveyance area at the 1974 design flood level of 82.5m AHD through both "Abercrombie" and "Glenlocco" channels (larger syphons required). The required conveyance area can be achieved with a 75m wide opening in the channel at the average design flood depth of approximately 1.5m.
G1: Maintain existing channel opening to ensure a minimum flow conveyance area of 80m² at the 1974 design flood level of 81.9m AHD. The required conveyance area can be achieved by maintaining a minimum 20m wide opening in the road at the average design flood depth of approximately 3.8m. Monitor during future floods.

Q2: Provide 80m² flow conveyance area through abandoned access road at the 1974 design flood level of 81.9m AHD. The required conveyance area can be achieved with a 20m wide opening in the road at the average design flood depth of approximately 3.8m.

Q3: Provide 170m² flow conveyance area through the channel at the 1974 design flood level of 81.7m AHD (syphon required). The required conveyance area can be achieved with a 75m wide opening in the channel at the average design flood depth of approximately 2.3m.

At some locations (notably G1, G2 & Q3) the design flood depth quoted is quite high due to the presence of depression(s) immediately upstream of the opening. Refer Table 1 for further information.

1974 Flood Extent Under Existing Conditions
1974 Flood Extent [Depth (m)] With Improvement Measures

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FIGURE C8
DETAILS OF IMPROVEMENT MEASURES AT SITE H
"PATERSON" IRRIGATION CHANNEL
(SOUTHERN FLOODPLAIN D/S OF "PEVENSEY" ACCESS ROAD)

H1: Provide 60m² flow conveyance area through northern section of channel at the 1974 design flood level of 80.5m AHD (larger syphon required). The required conveyance area can be achieved with a 55m wide opening in the channel at the average design flood depth of approximately 1.1m.

H2: Provide 30m² flow conveyance area through southern section of channel at the 1974 design flood level of 80.5m AHD (larger syphon required). The required conveyance area can be achieved with a 25m wide opening in the channel at the average design flood depth of approximately 1.1m.

1974 Flood Extent Under Existing Conditions
1974 Flood Extent [Depth (m)] With Improvement Measures

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11. Maintain existing channel opening width to ensure a minimum flow conveyance area of 55m² at the 1974 design flood level of 78.5m AHD. The required conveyance area can be achieved by maintaining a minimum 30m wide opening in the channel at the average design flood depth of approximately 1.4m. Monitor during future floods.

12. Provide 50m² flow conveyance area through southern section of channel at the 1974 design flood level of 78.5m AHD (larger syphon required). The required conveyance area can be achieved with a 30m wide opening in the channel at the average design flood depth of approximately 1.7m.