MBGR CONNECTION TO BARRIER RAILING TYPE 9, 9-11

The attached sheets show suggested details to attach Metal Beam Guard Railing to existing Barrier Railing Type 9 or Type 9-11. Detail sheets are available through the Walls and Railings Staff Specialist.

The detail sheets are not to be inserted in the contract plans. The selected connection should be detailed on the plans.

Districts have requested these details in the past. No history was developed for cost comparison, however, the Metal Post Bracket Connection appears to be the most economical.

The connection details are applicable where existing Bridge Approach Guard Railing Type 8 is being removed. The details can also be applied to an existing bridge rail which does not have existing approach rail.

Note that the Metal Post Bracket Connection should be used only for the approach end guard rail anchor, on one-way bridges only. The bracket is not long enough to fit the terminal end bolt spacing. Therefore, the trailing end guard rail anchor, if needed, requires Option I or II.

Investigation of the actual Bridge site is imperative to determine the location of any expansion joint in the existing rail that determines the choice of connection to be employed.

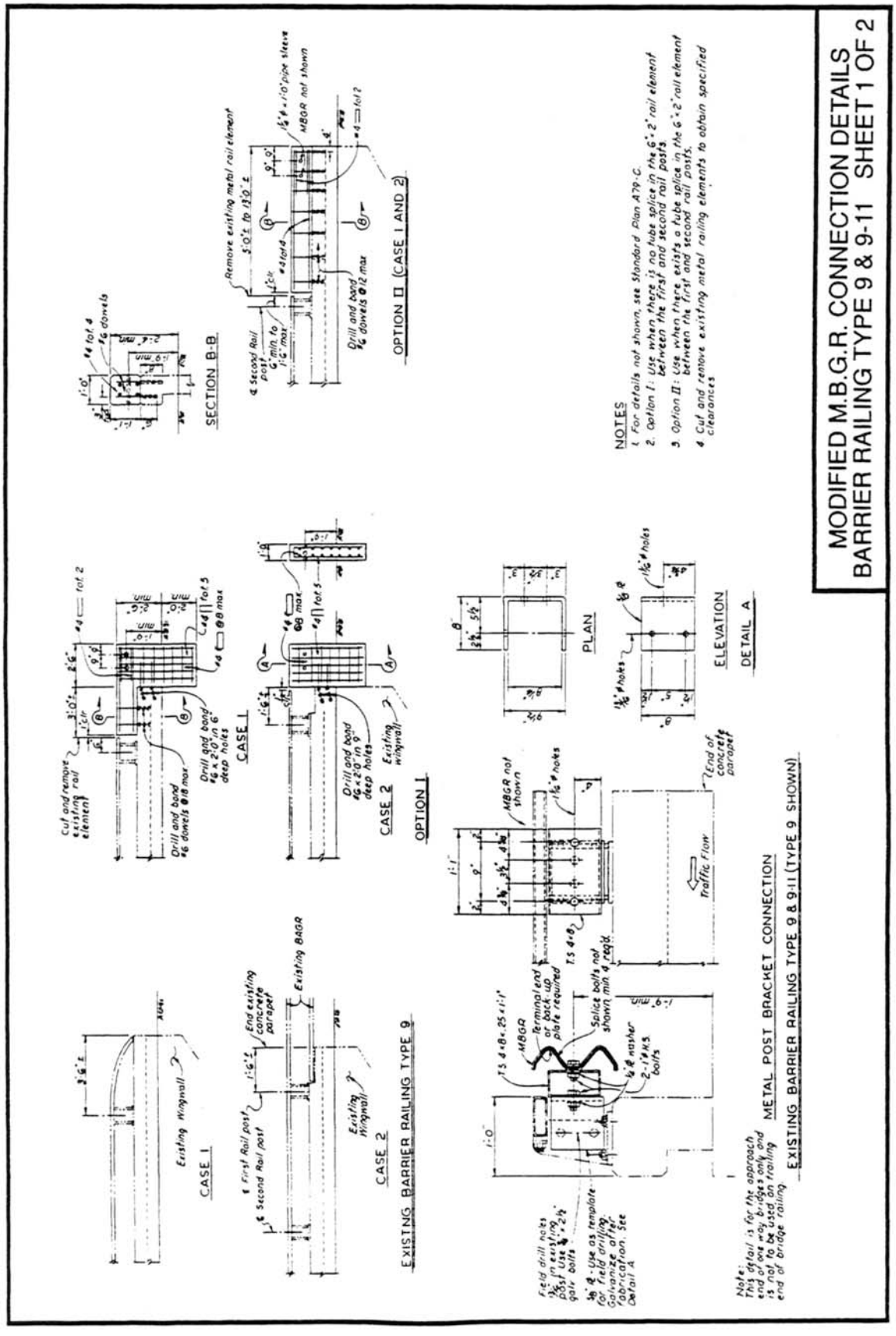
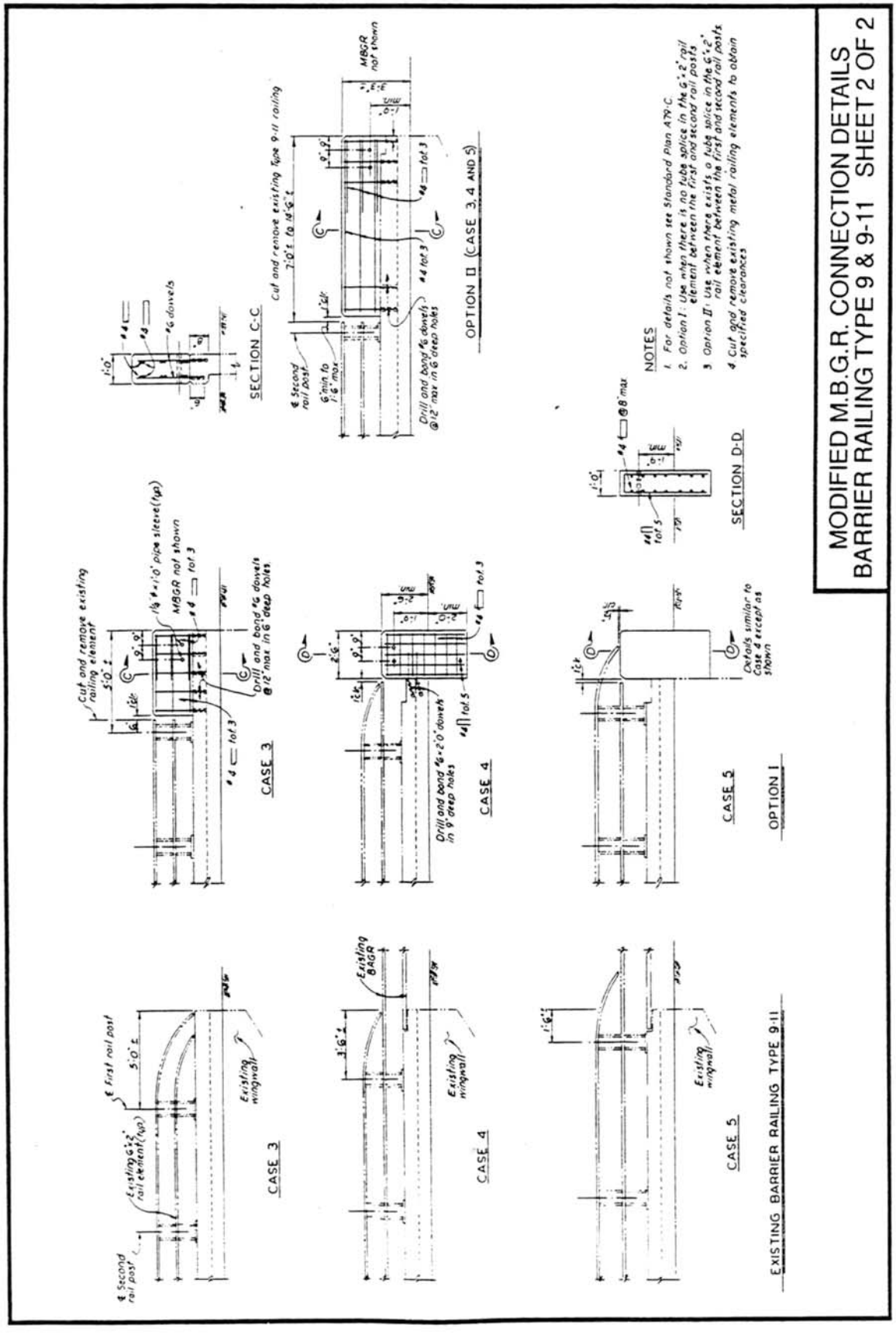
Philip C Warriner

Guy D. Mancarti

JPH:jgf
Attachments

Supersedes Memo to Designers 14-10 dated December 1978

Attachment 1



Attachment 2