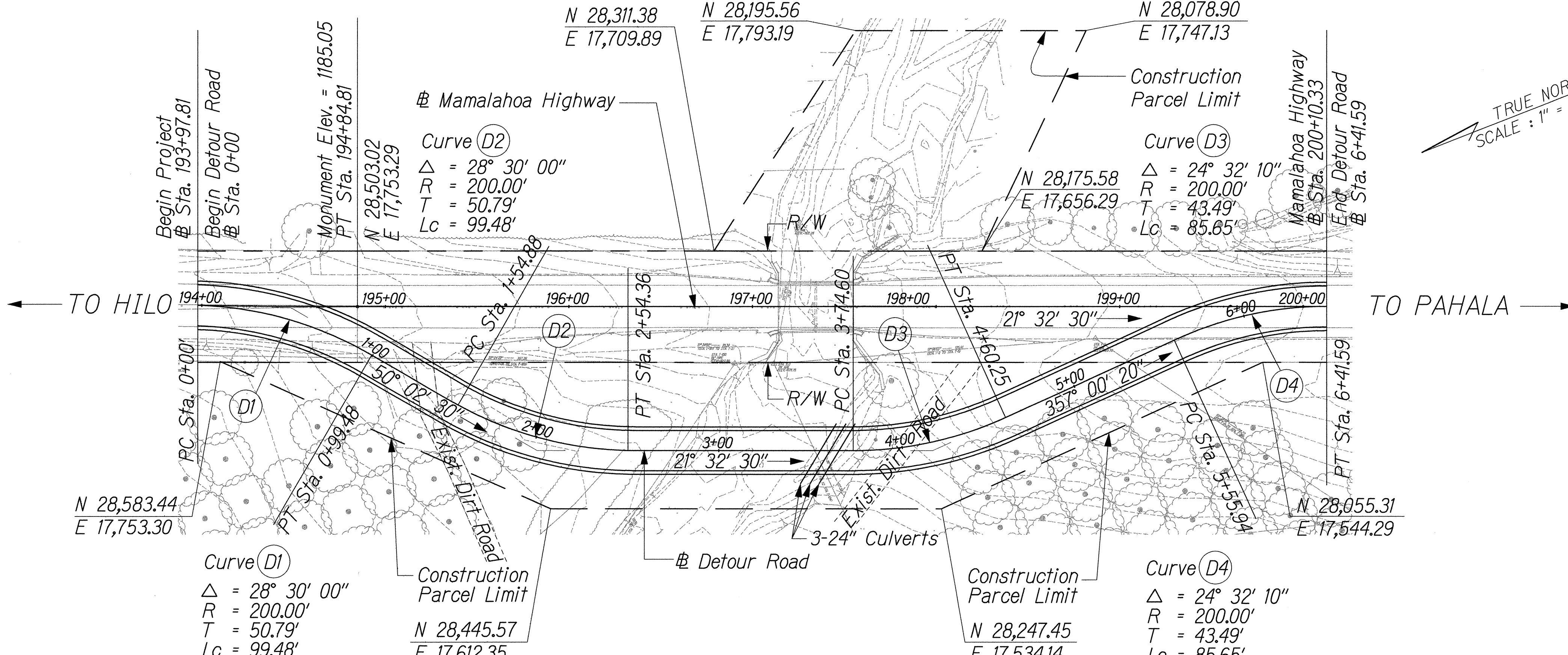
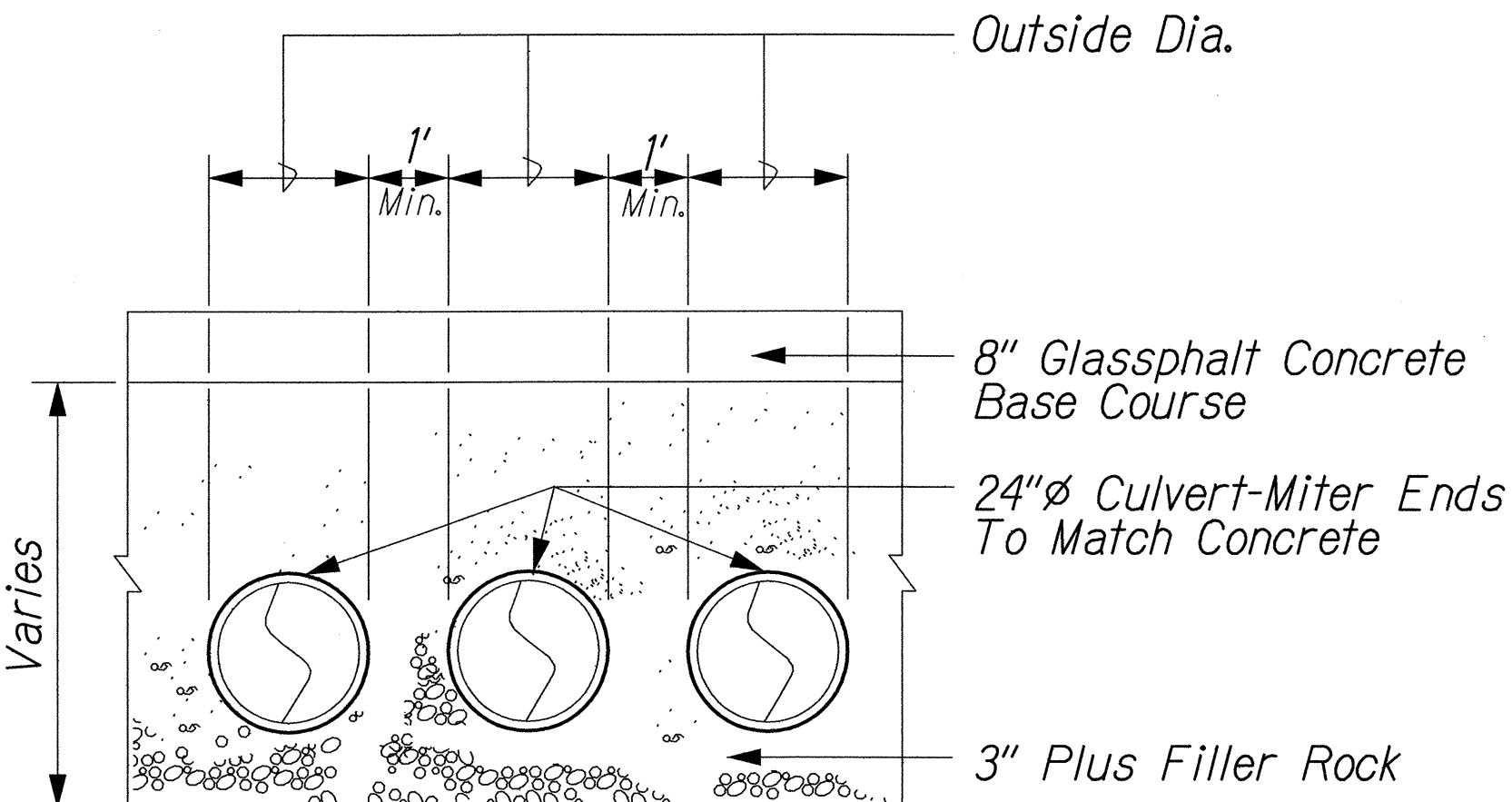


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW   | 5B 12(2)           | 2001        | 104       | 145          |

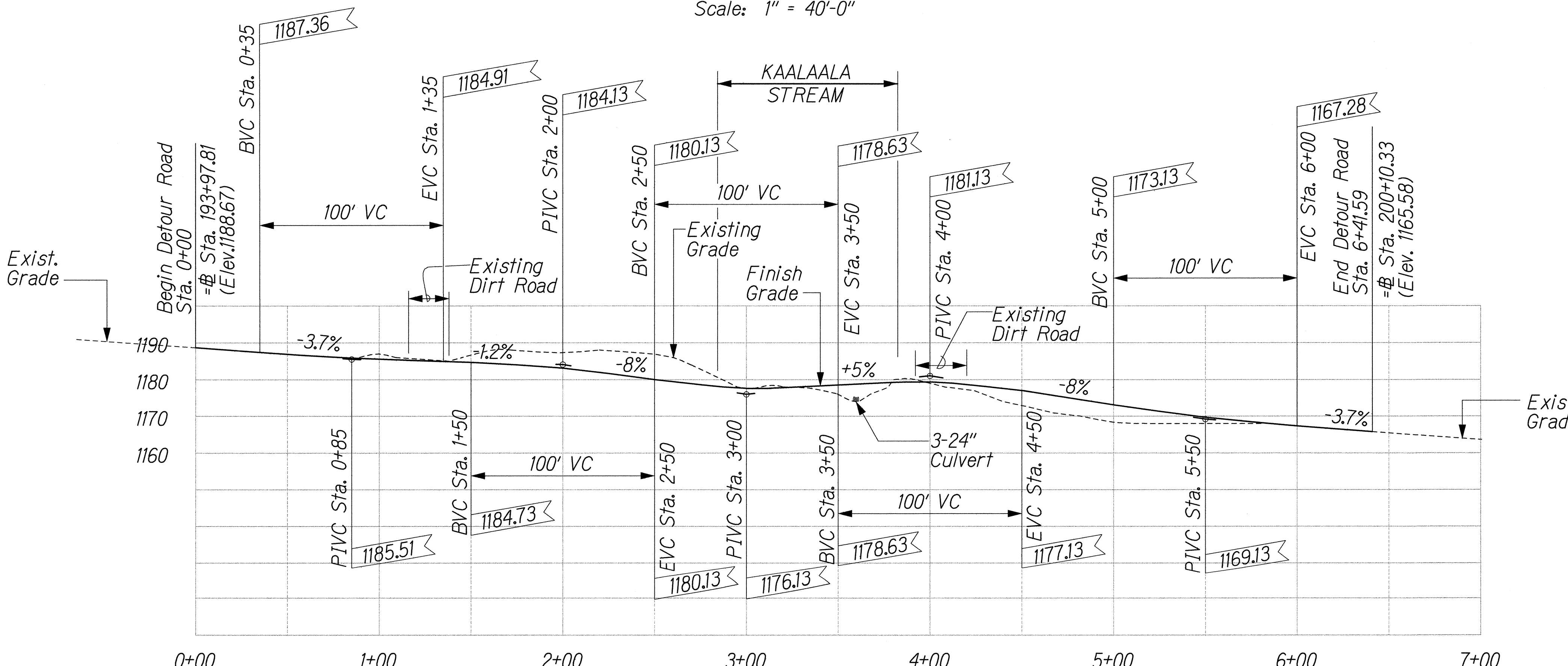


NOTES:

1. *The Contractor shall provide smooth connection to the existing Dirt Road. This work shall be considered part of the Detour Road, and payment will be considered as incidental to various contract items.*
2. *The Contractor shall maintain access to the adjacent property owner's field roads.*
3. *The Contractor shall verify with the Engineer which trees that the adjacent property owner has been compensated for, and which trees are to be removed.*
4. *The Contractor shall provide a smooth connection from the Dirt Road to Mamalahoa Highway after the removal of Detour Road.*
5. *Culvert ends shall be mitered to match the embankment slope.*



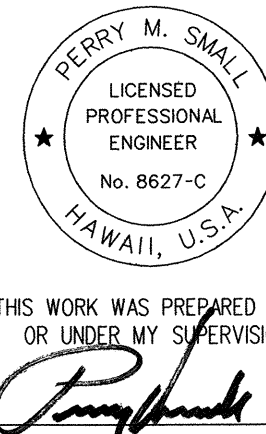
CULVERT DETAIL  
Not To Scale



PROFILE - DETOUR ROAD  
Scale: Horizontal - 1" = 40'-0"  
Vertical - 1" = 20'-0"

|               |                         |            |
|---------------|-------------------------|------------|
| ORIGINAL PLAN | SURVEY PLOTTED BY _____ | DATE _____ |
| NOTE BOOK     | DRAWN BY _____          | *          |
|               | TRACED BY _____         | *          |
|               | DESIGNED BY _____       | *          |
|               | QUANTITIES BY _____     | *          |
| 4.            | CHECKED BY _____        | *          |

J:/KAALAA/ROAD/ROAD/RDWWY01.dgn May 2001



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PLAN AND PROFILE - DETOUR ROAD**

MAMALAHOA HIGHWAY, EMERGENCY  
REPLACEMENT OF KAALAALA STREAM BRIDGE  
FEDERAL-AID PROJECT NO. ER-12(2), PAHALA, HAWAII

Scale: As Shown      Date: February 20, 2001

SHEET No. *BC10* OF 28 SHEETS