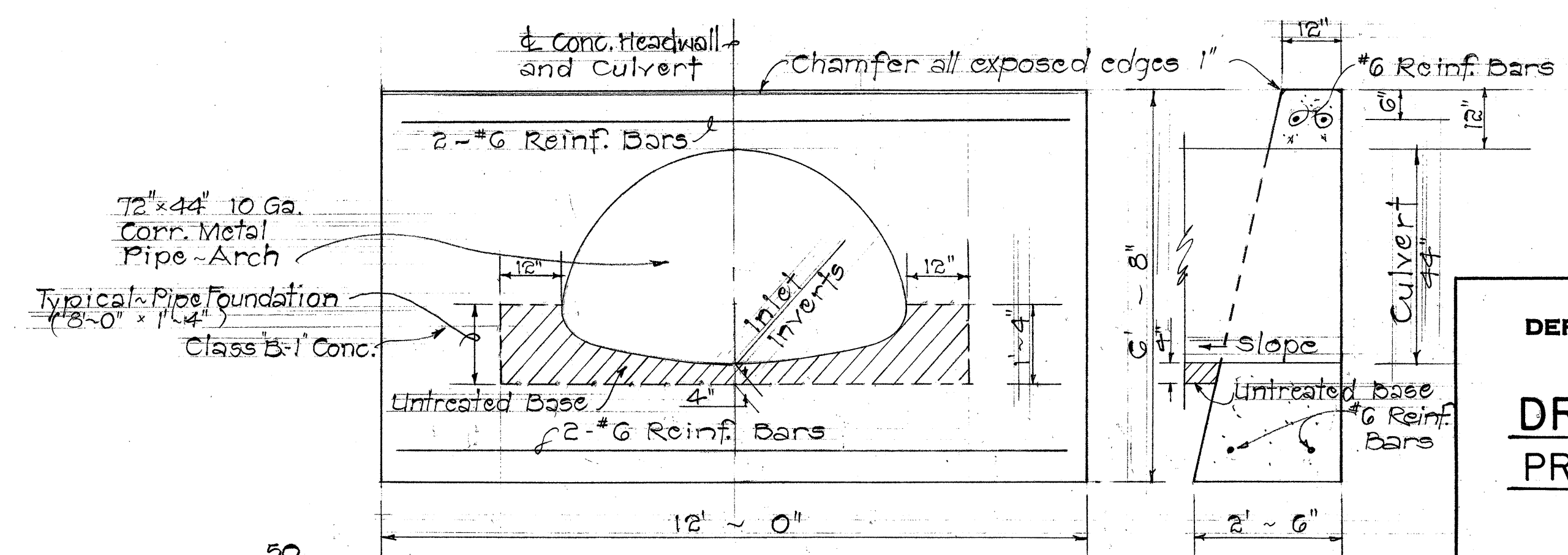
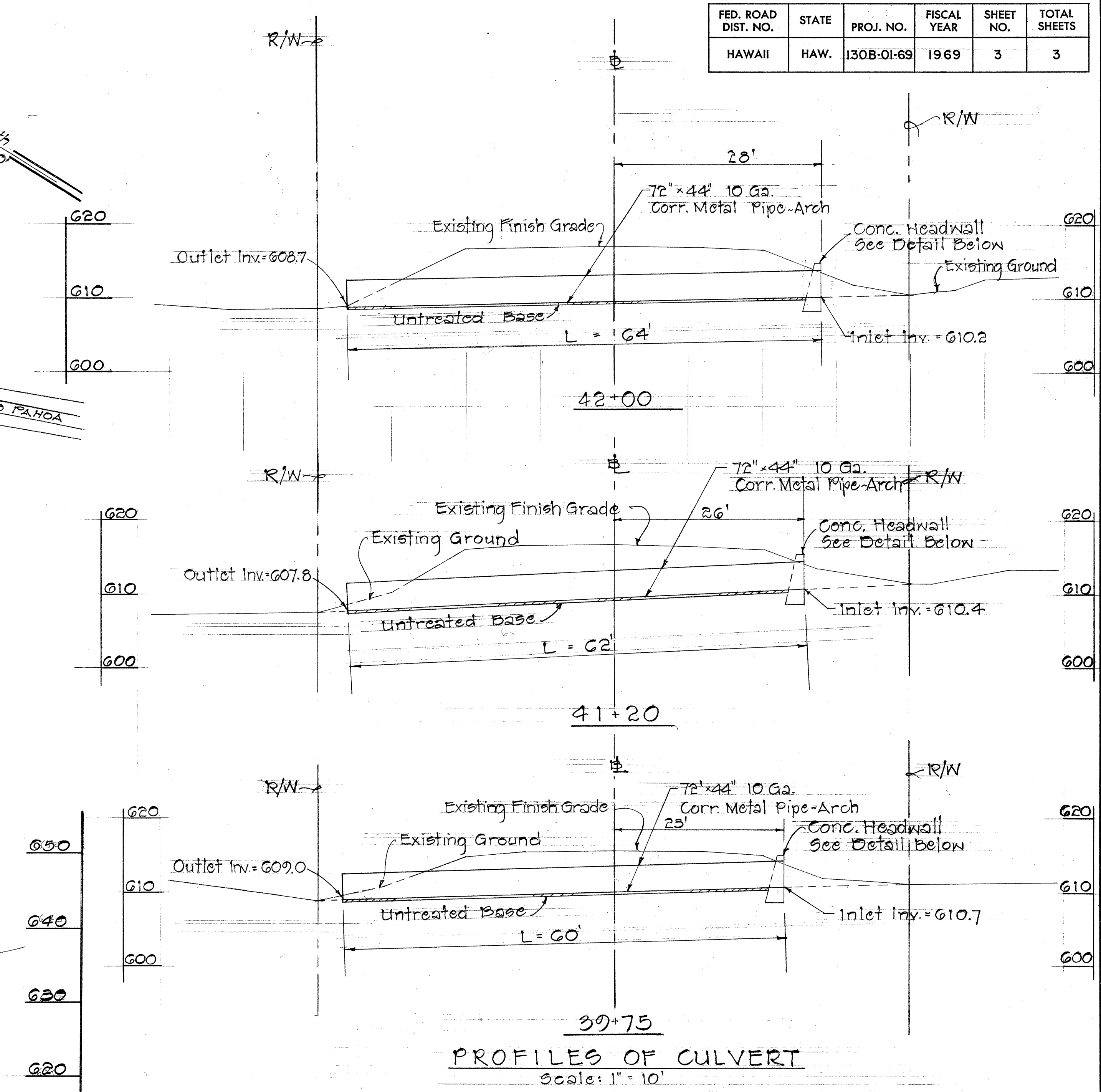
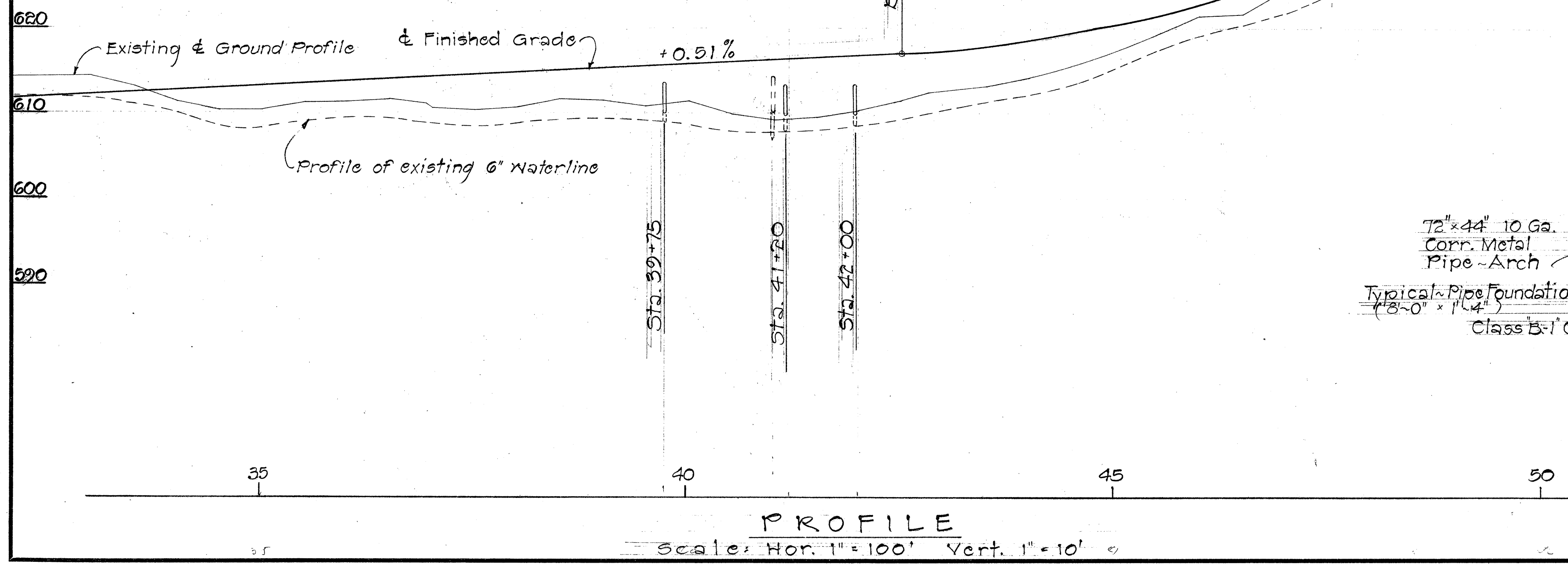
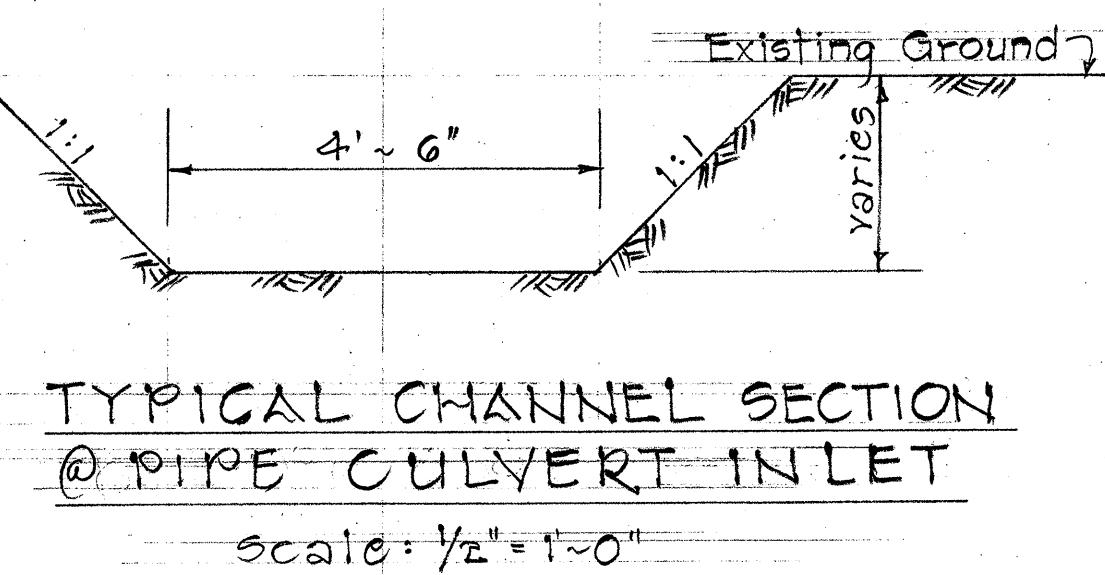
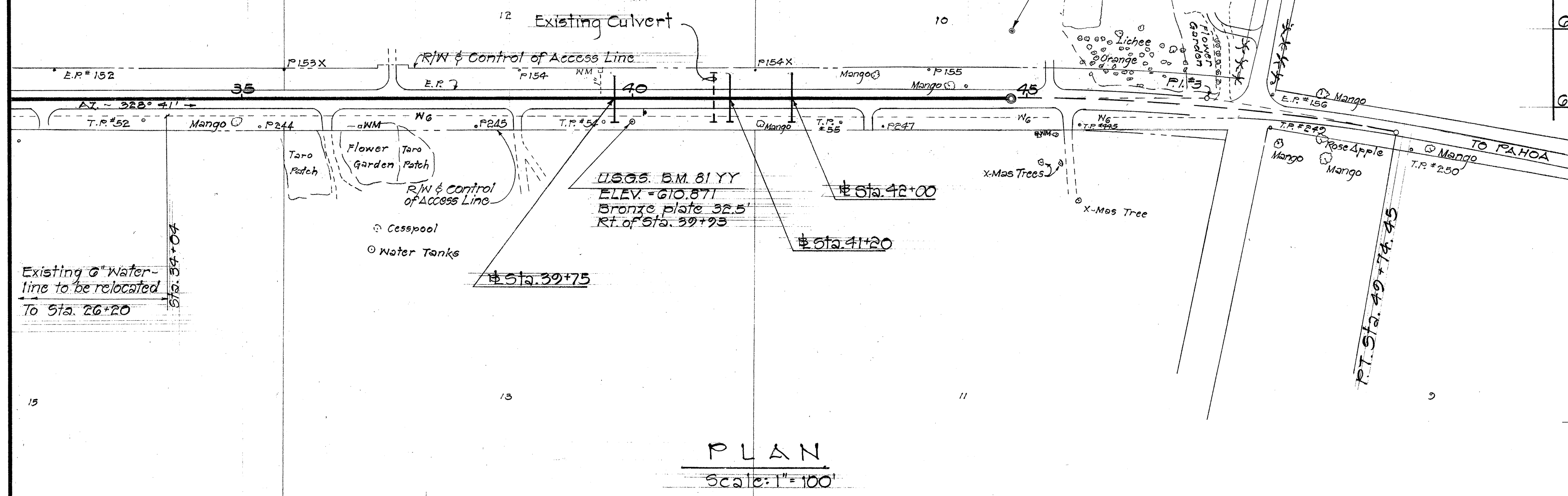


| FED. ROAD DIST. NO. | STATE | PROJ. NO.  | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 130B-01-69 | 1969        | 3         | 3            |

| Sta. 39+75                                      | Sta. 41+20                                      | Sta. 42+00                                      |
|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Install; 72"x44" Corr. Metal Pipe-Arch (10 Ga.) | Install; 72"x44" Corr. Metal Pipe-Arch (10 Ga.) | Install; 72"x44" Corr. Metal Pipe-Arch (10 Ga.) |
| Construct; Conc. Headwall                       | Construct; Conc. Headwall                       | Construct; Conc. Headwall                       |
| <b>Estimated Quantities</b>                     | <b>Estimated Quantities</b>                     | <b>Estimated Quantities</b>                     |
| Struc. Exc. = 22 c.y.                           | Struc. Exc. = 148 c.y.                          | Struc. Exc. = 129 c.y.                          |
| Ditch & Channel Exc. = 4 c.y.                   | Ditch & Channel Exc. = 3 c.y.                   | Ditch & Channel Exc. = 4 c.y.                   |
| Class "B-1" Conc. = 4.5 c.y.                    | Class "B-1" Conc. = 4.5 c.y.                    | Class "B-1" Conc. = 4.5 c.y.                    |
| Reinf. Steel = 68 lb.                           | Reinf. Steel = 68 lb.                           | Reinf. Steel = 68 lb.                           |
| Pipe-Arch = 60 l.f.                             | Pipe-Arch = 62 l.f.                             | Pipe-Arch = 64 l.f.                             |
| Untreated Base for Pipe Foundation = 12 c.y.    | Untreated Base for Pipe Foundation = 13 c.y.    | Untreated Base for Pipe Foundation = 13 c.y.    |

T.B.M. ~ ELEV = 613.31  
Spike in Pahoehoe  
83.6 ft. of R.C. Sta.  
44+81.42



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**DRAINAGE DETAILS**  
PROJ. NO. 130B-01-69

|               |      |
|---------------|------|
| ORIGINAL PLAN | DATE |
| DESIGNED BY   |      |
| NOTED BY      |      |
| CHECKED BY    |      |
| NO.           |      |