

II. Water wells within 100 feet of proposed construction are found at the following locations on -L-.

Stations

- 133+90, 100' LT
- 154+50, 35' RT
- 162+45, 75' RT
- 165+80, 90' RT
- 172+85, 65' LT (5 foot diameter, hand dug)
- 210+65, 160' RT (5 foot diameter, hand dug)
- 220+50, 60' RT
- 221+60, 105' LT
- 228+25, 60' RT
- 256+20, 100' RT
- 342+80, 160' RT
- 345+30, 120' RT
- 350+50, 65' LT

III. Water wells at Falcon Ridge development are located on the slope or crest of the ridge above a proposed rock cut. Most lie within 150-300 feet of proposed rock blasting. They vary in depth from about 100 to 700 feet, with static water levels from 8 feet to more than 100 feet below ground surface. They are sited at the following locations on -L-.

Stations

- |                 |                 |
|-----------------|-----------------|
| 267+90, 250' RT | 279+70, 200' RT |
| 268+30, 215' RT | 285+60, 325' RT |
| 270+90, 350' RT | 286+35, 385' RT |
| 273+60, 170' RT | 286+55, 390' RT |
| 274+00, 235' RT | 286+60, 260' RT |
| 275+80, 215' RT | 288+65, 310' RT |
| 278+55, 200' RT |                 |

A water well at approximate Station 318+30, 440' RT is located on the ridge above a proposed deep rock cut, within about 200 feet of the cut slope. The well is 300 feet deep. Several other wells are located on this ridge at sites more distant from the proposed large cut.

IV. Wet areas are found at the following locations:

-L- Stations 136+00 to 136+70, 85' RT to 305' RT

This area is a floodplain marsh that extends leftward from the foot of an existing roadway

embankment. It is a tributary to the wet area noted below. The marsh is bordered on the south side by an alluvial terrace. The marsh and adjacent terrace are recommended for undercut.

-Y1- Stations 13+50 to 13+85, 200' RT to 110' LT

This area is a floodplain marsh and headwater spring. This area, together with wet colluvium above the spring, is recommended for undercut. This floodplain marsh extends to the southwest beyond the limits of construction and is intersected by the tributary marsh noted above. Special drainage may be necessary beyond the limits of construction in this area.

-L- Stations 294+50 to 295+60, 90' RT to 230' RT

This area is a marsh that extends about 150 feet to the right from the base of an existing roadway embankment. Plans indicate a retaining wall to prevent additional embankment from impacting the marsh.

V. Hard rock was encountered above grade in the following intervals of -L-:

Stations

- |                 |                 |
|-----------------|-----------------|
| 26+50 – 39+00   | 254+00 – 254+50 |
| 41+00 – 47+00   | 267+00 – 268+50 |
| 59+00 – 62+00   | 270+00 – 273+00 |
| 66+00 – 67+50   | 279+50 – 280+50 |
| 69+50 – 74+00   | 281+50 – 282+00 |
| 75+00 – 78+50   | 285+00 – 290+00 |
| 81+50 – 82+00   | 291+00 – 293+00 |
| 87+00 – 89+00   | 298+50 – 299+00 |
| 108+00 – 113+00 | 300+00 – 323+00 |
| 177+00 – 178+00 | 330+00 – 333+50 |
| 218+50 – 221+00 | 339+00 – 340+50 |
| 240+00 – 241+50 | 342+50 – 343+00 |
| 251+00 – 251+50 |                 |

**Topography and Land Use**

This project, located in the Mountain Region, covers a part of US-321 that rises from the foot of the Blue Ridge Escarpment most of the way to its crest, from an elevation of about 1420 feet at its beginning to 2956 feet at Blackberry Road. The greater part of the project lies on an upward grade of 4 to 8 percent.

Most of the terrain along the highway is forest land with interspersed residential lots and a few small commercial sites. Most residential lots are concentrated between -L- Stations 79+00 and 170+00 and in Falcon Ridge Development between -L- Stations 265+00 and 290+00. The topography varies considerably along the length of the road and is related to the underlying