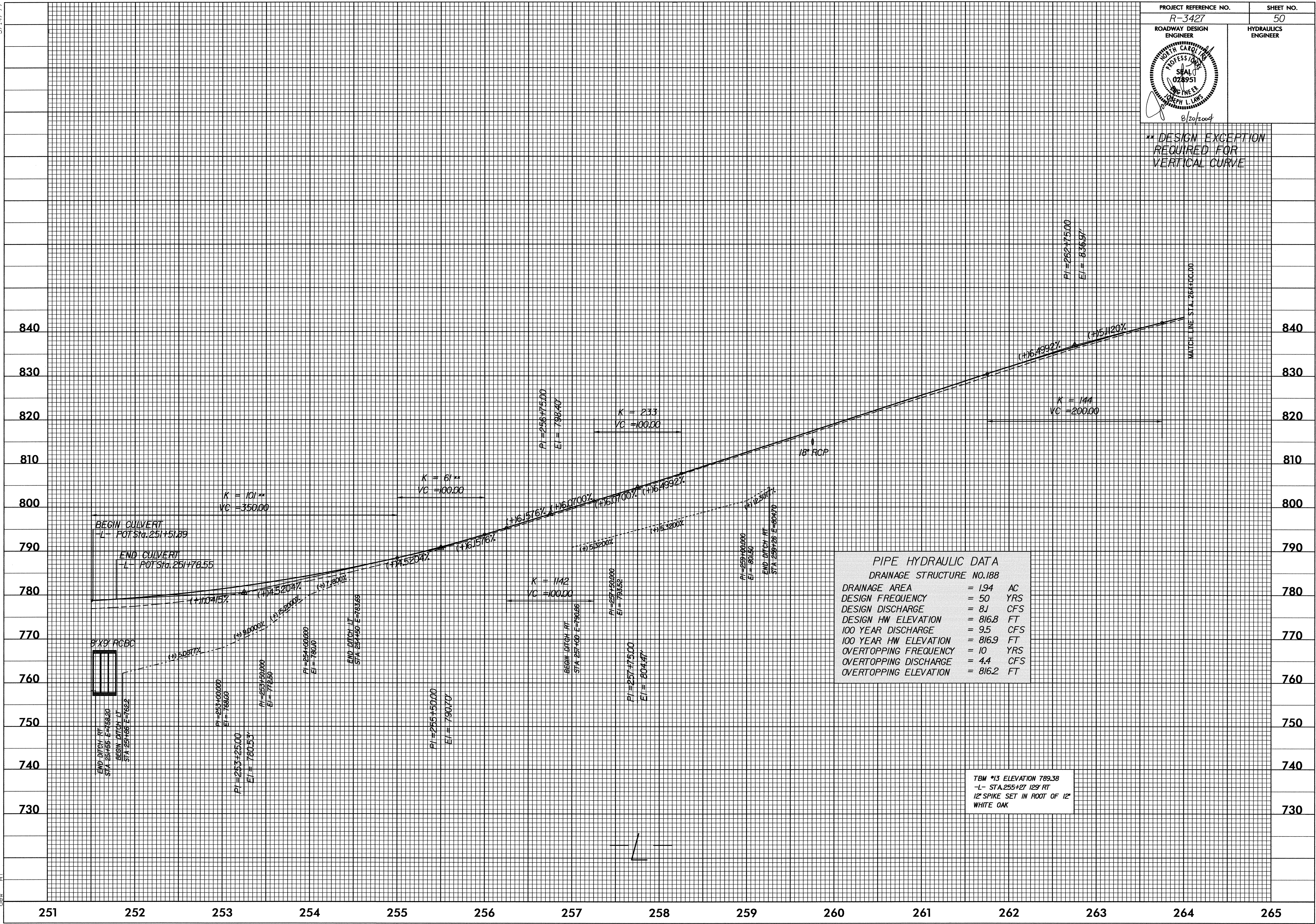


5/14/99

|                                 |                     |
|---------------------------------|---------------------|
| PROJECT REFERENCE NO.<br>R-3427 | SHEET NO.<br>50     |
| ROADWAY DESIGN ENGINEER         | HYDRAULICS ENGINEER |
|                                 |                     |

\*\* DESIGN EXCEPTION REQUIRED FOR VERTICAL CURVE



| PIPE HYDRAULIC DATA       |            |
|---------------------------|------------|
| DRAINAGE STRUCTURE NO.188 |            |
| DRAINAGE AREA             | = 1.94 AC  |
| DESIGN FREQUENCY          | = 50 YRS   |
| DESIGN DISCHARGE          | = 8.1 CFS  |
| DESIGN HW ELEVATION       | = 816.8 FT |
| 100 YEAR DISCHARGE        | = 9.5 CFS  |
| 100 YEAR HW ELEVATION     | = 816.9 FT |
| OVERTOPPING FREQUENCY     | = 10 YRS   |
| OVERTOPPING DISCHARGE     | = 4.4 CFS  |
| OVERTOPPING ELEVATION     | = 816.2 FT |

TBM #13 ELEVATION 789.38  
 -L- STA.255+27 12\"/>

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