| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| B-2905 | 6 |

ROADWAY DESIGN ENGINEER

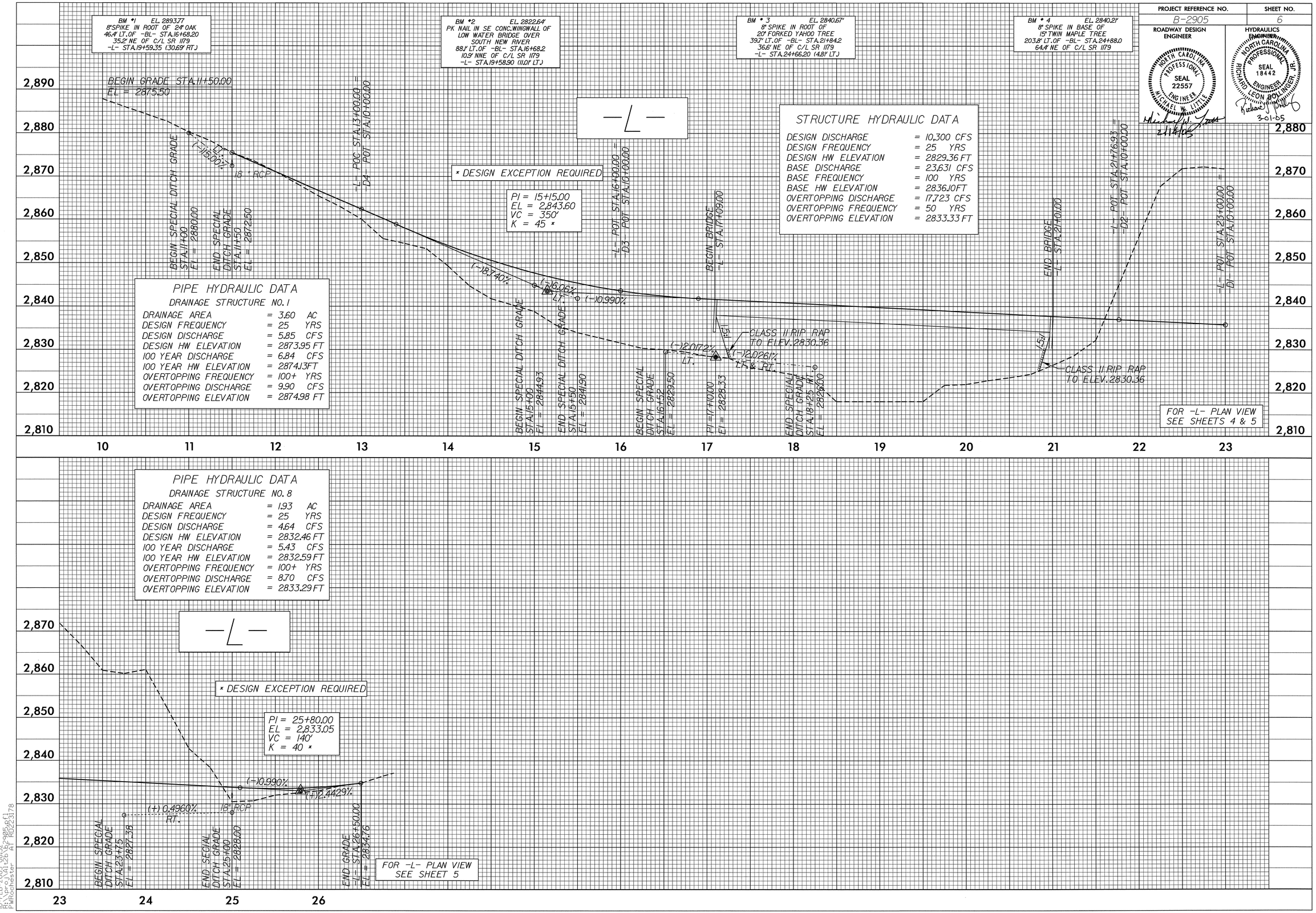
NORTH CAROLINA PROFESSIONAL SEAL 22557 ENGINEER MICHAEL W. LITTLE

2/14/05

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 18442 ENGINEER RICHARD LEON BOLLINGER JR.

3-01-05




## STRUCTURE HYDRAULIC DATA

| | | |
|---|---|---|
| DESIGN DISCHARGE | = | 10,300 CFS |
| DESIGN FREQUENCY | = | 25 YRS |
| DESIGN HW ELEVATION | = | 2829.36 FT |
| BASE DISCHARGE | = | 23,631 CFS |
| BASE FREQUENCY | = | 100 YRS |
| BASE HW ELEVATION | = | 2836.10 FT |
| OVERTOPPING DISCHARGE | = | 17,723 CFS |
| OVERTOPPING FREQUENCY | = | 50 YRS |
| OVERTOPPING ELEVATION | = | 2833.33 FT |

## PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO. 1

| | | |
|---|---|---|
| DRAINAGE AREA | = | 3.60 AC |
| DESIGN FREQUENCY | = | 25 YRS |
| DESIGN DISCHARGE | = | 5.85 CFS |
| DESIGN HW ELEVATION | = | 2873.95 FT |
| 100 YEAR DISCHARGE | = | 6.84 CFS |
| 100 YEAR HW ELEVATION | = | 2874.13 FT |
| OVERTOPPING FREQUENCY | = | 100+ YRS |
| OVERTOPPING DISCHARGE | = | 9.90 CFS |
| OVERTOPPING ELEVATION | = | 2874.98 FT |




## PIPE HYDRAULIC DATA

DRAINAGE STRUCTURE NO. 8

| | | |
|---|---|---|
| DRAINAGE AREA | = | 1.93 AC |
| DESIGN FREQUENCY | = | 25 YRS |
| DESIGN DISCHARGE | = | 4.64 CFS |
| DESIGN HW ELEVATION | = | 2832.46 FT |
| 100 YEAR DISCHARGE | = | 5.43 CFS |
| 100 YEAR HW ELEVATION | = | 2832.59 FT |
| OVERTOPPING FREQUENCY | = | 100+ YRS |
| OVERTOPPING DISCHARGE | = | 8.70 CFS |
| OVERTOPPING ELEVATION | = | 2833.29 FT |

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PWRochester AT RD223178

RD223178 Thursday February 10 2005 b2905s6 PWRochester rd-05oce34