

5/28/2026

**TGS ENGINEERS**  
 706 HILLSBOROUGH ST. SUITE 200  
 RALEIGH, NC 27603  
 PH (919) 773-8887  
 CORP. LICENSE NO.: C-0275

EXISTING GROUND -----  
 PROPOSED GRADE -----  
 LEFT DITCH GRADE -----  
 RIGHT DITCH GRADE -----

|  |                                      |
|--|--------------------------------------|
| PROJECT REFERENCE NO.<br><b>W-5704E</b>  | SHEET NO.<br><b>12</b>               |
| ROADWAY DESIGN ENGINEER<br><br>1/26/2026 | HYDRAULICS ENGINEER<br><br>1/26/2026 |

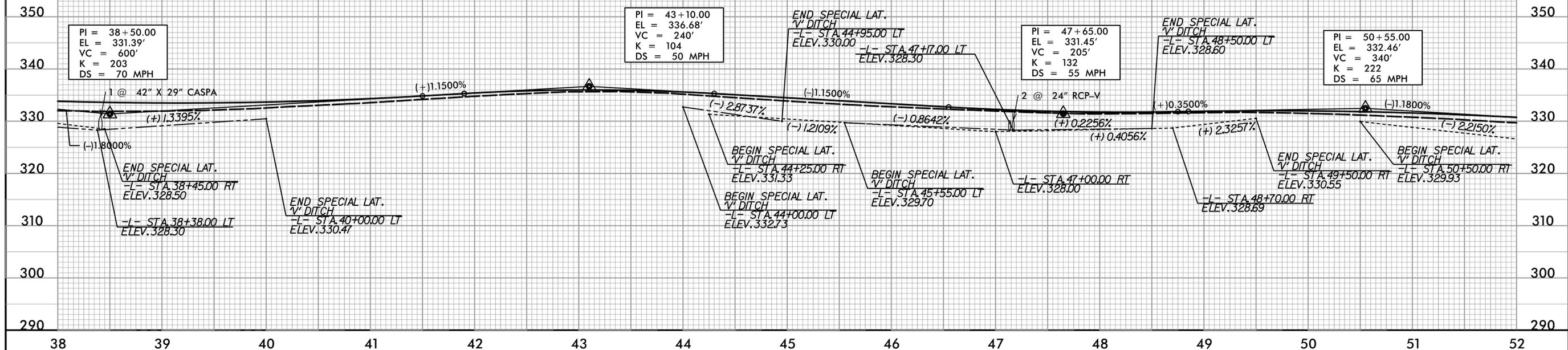
**-L-**  
**SR 1100 COVERED BRIDGE RD.**

**PIPE HYDRAULIC DATA**  
 \*0601 -L- Sta. 38+44

|                       |           |     |
|-----------------------|-----------|-----|
| DRAINAGE AREA         | = 17.8    | AC  |
| DESIGN FREQUENCY      | = 25      | YRS |
| DESIGN DISCHARGE      | = 38      | CFS |
| DESIGN HW ELEVATION   | = 332.3   | FT  |
| 100 YEAR DISCHARGE    | = 44      | CFS |
| 100 YEAR HW ELEVATION | = 333.2   | FT  |
| OVERTOPPING FREQUENCY | = 500 (+) | YRS |
| OVERTOPPING DISCHARGE | = N/A     | CFS |
| OVERTOPPING ELEVATION | = 334.5   | FT  |

**PIPE HYDRAULIC DATA**  
 \*0603 -L- Sta. 47+14

|                       |           |     |
|-----------------------|-----------|-----|
| DRAINAGE AREA         | = 7.6     | AC  |
| DESIGN FREQUENCY      | = 25      | YRS |
| DESIGN DISCHARGE      | = 20      | CFS |
| DESIGN HW ELEVATION   | = 330.8   | FT  |
| 100 YEAR DISCHARGE    | = 23      | CFS |
| 100 YEAR HW ELEVATION | = 331.1   | FT  |
| OVERTOPPING FREQUENCY | = 500 (+) | YRS |
| OVERTOPPING DISCHARGE | = N/A     | CFS |
| OVERTOPPING ELEVATION | = 332.3   | FT  |

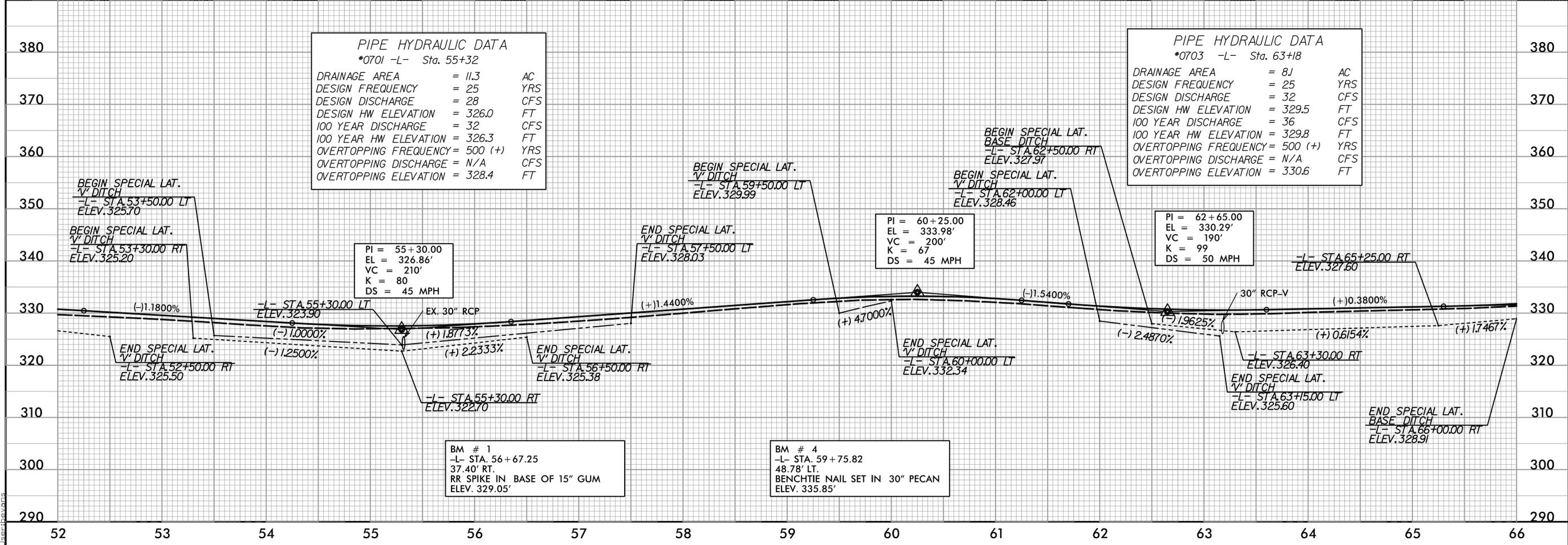


**PIPE HYDRAULIC DATA**  
 \*0701 -L- Sta. 55+32

|                       |           |     |
|-----------------------|-----------|-----|
| DRAINAGE AREA         | = 11.3    | AC  |
| DESIGN FREQUENCY      | = 25      | YRS |
| DESIGN DISCHARGE      | = 28      | CFS |
| DESIGN HW ELEVATION   | = 326.0   | FT  |
| 100 YEAR DISCHARGE    | = 32      | CFS |
| 100 YEAR HW ELEVATION | = 326.3   | FT  |
| OVERTOPPING FREQUENCY | = 500 (+) | YRS |
| OVERTOPPING DISCHARGE | = N/A     | CFS |
| OVERTOPPING ELEVATION | = 328.4   | FT  |

**PIPE HYDRAULIC DATA**  
 \*0703 -L- Sta. 63+18

|                       |           |     |
|-----------------------|-----------|-----|
| DRAINAGE AREA         | = 8.1     | AC  |
| DESIGN FREQUENCY      | = 25      | YRS |
| DESIGN DISCHARGE      | = 32      | CFS |
| DESIGN HW ELEVATION   | = 329.5   | FT  |
| 100 YEAR DISCHARGE    | = 36      | CFS |
| 100 YEAR HW ELEVATION | = 329.8   | FT  |
| OVERTOPPING FREQUENCY | = 500 (+) | YRS |
| OVERTOPPING DISCHARGE | = N/A     | CFS |
| OVERTOPPING ELEVATION | = 330.6   | FT  |



5/17/2025  
 S:\Projects\W-5704e\Roadway\proj\W-5704E\_RDY\_PFL.dgn  
 User: dbevans