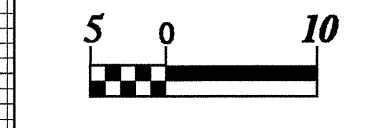


10.26.05

15-MAR-2005 15:11  
J.L. Tesague

★BM # BY3-329 EL 80.458  
6.628m LT -FLYLEREV- STA 15+97.156

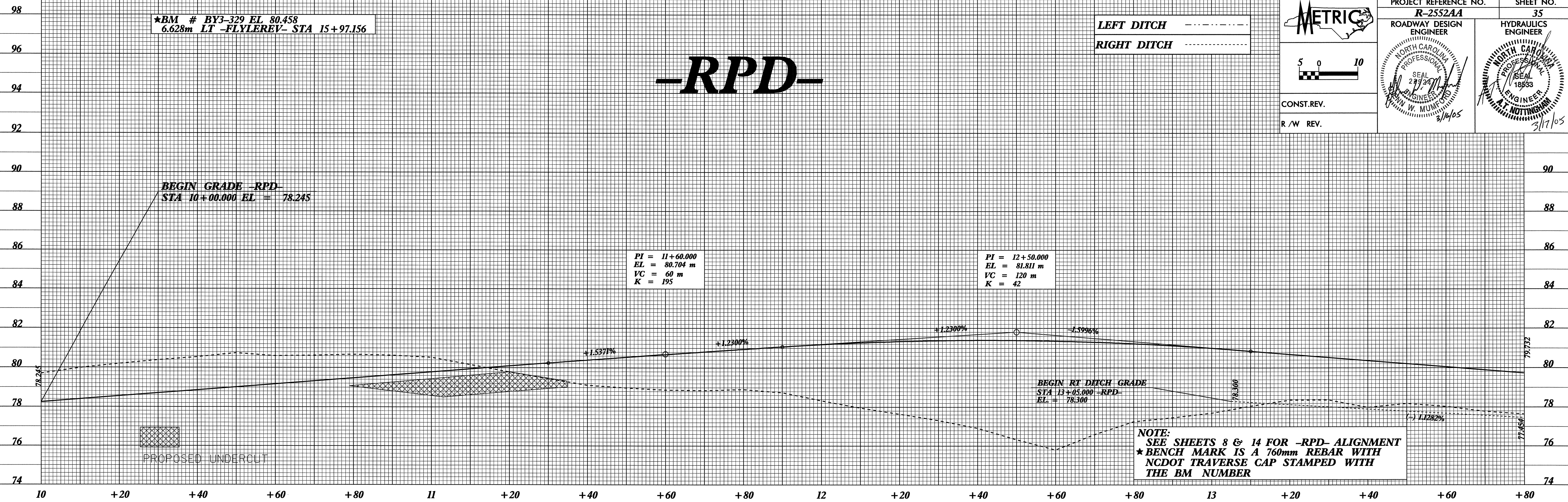
LEFT DITCH  
RIGHT DITCH



CONST.REV.  
R /W REV.

PROJECT REFERENCE NO. <b>R-25524A</b>	SHEET NO. <b>35</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

# -RPD-



BEGIN GRADE -RPD-  
STA 10+00.000 EL = 78.245

PI = 11+60.000  
EL = 80.704 m  
VC = 60 m  
K = 195

PI = 12+50.000  
EL = 81.811 m  
VC = 120 m  
K = 42

BEGIN RT DITCH GRADE  
STA 13+05.000 -RPD-  
EL = 78.300

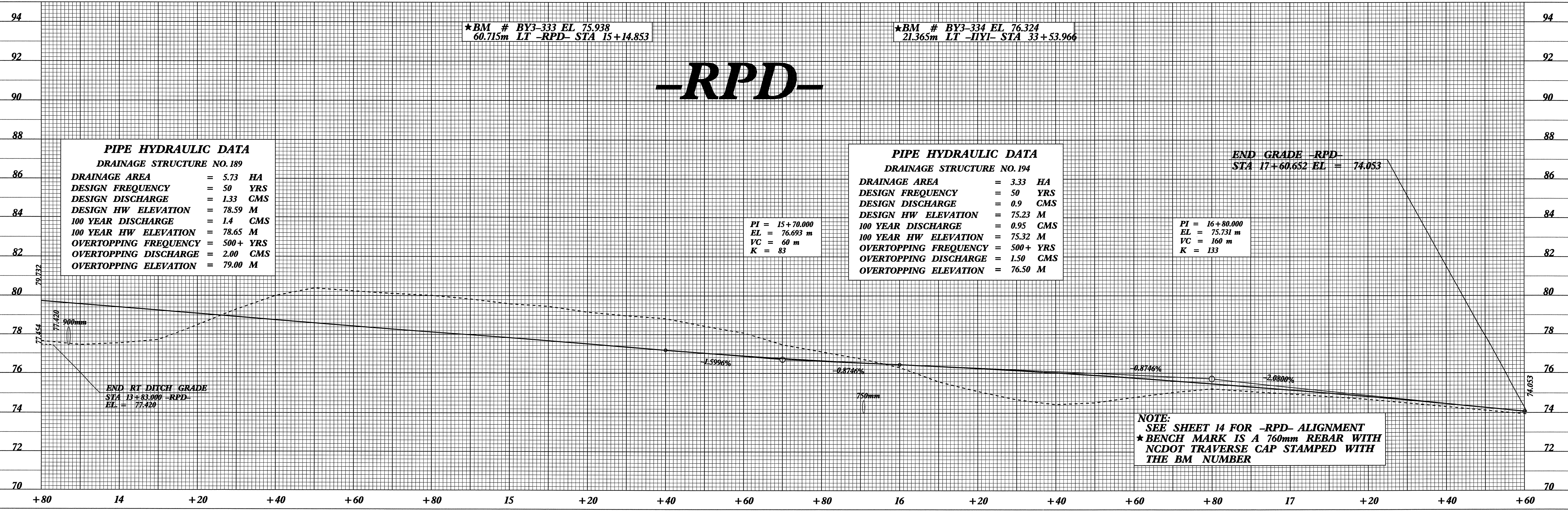
NOTE:  
SEE SHEETS 8 & 14 FOR -RPD- ALIGNMENT  
★ BENCH MARK IS A 760mm REBAR WITH  
NCDOT TRAVERSE CAP STAMPED WITH  
THE BM NUMBER

PROPOSED UNDERCUT

★BM # BY3-333 EL 75.938  
60.715m LT -RPD- STA 15+14.853

★BM # BY3-334 EL 76.324  
21.365m LT -I1Y1- STA 33+53.966

# -RPD-



**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 189

DRAINAGE AREA	= 5.73 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 1.33 CMS
DESIGN HW ELEVATION	= 78.59 M
100 YEAR DISCHARGE	= 1.4 CMS
100 YEAR HW ELEVATION	= 78.65 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 2.00 CMS
OVERTOPPING ELEVATION	= 79.00 M

**PIPE HYDRAULIC DATA**  
DRAINAGE STRUCTURE NO. 194

DRAINAGE AREA	= 3.33 HA
DESIGN FREQUENCY	= 50 YRS
DESIGN DISCHARGE	= 0.9 CMS
DESIGN HW ELEVATION	= 75.23 M
100 YEAR DISCHARGE	= 0.95 CMS
100 YEAR HW ELEVATION	= 75.32 M
OVERTOPPING FREQUENCY	= 500+ YRS
OVERTOPPING DISCHARGE	= 1.50 CMS
OVERTOPPING ELEVATION	= 76.50 M

END GRADE -RPD-  
STA 17+60.652 EL = 74.053

END RT DITCH GRADE  
STA 13+83.000 -RPD-  
EL = 77.420

NOTE:  
SEE SHEET 14 FOR -RPD- ALIGNMENT  
★ BENCH MARK IS A 760mm REBAR WITH  
NCDOT TRAVERSE CAP STAMPED WITH  
THE BM NUMBER