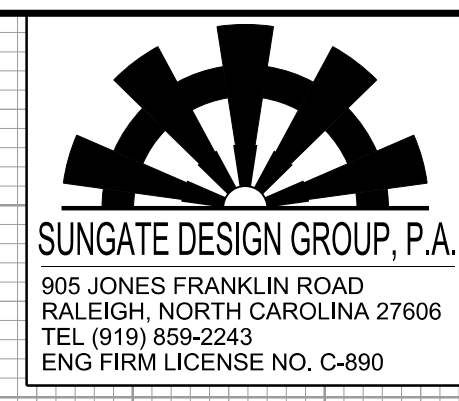


5/28/23

# -Y2-



Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-6866  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0672

PROJECT REFERENCE NO. R-2707D	SHEET NO. 45
ROADWAY DESIGN ENGINEER MATTHEW B. FERGUSON 04480	HYDRAULICS ENGINEER JOHNSA G. DALTON 26971
4/21/2023	4/21/2023

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

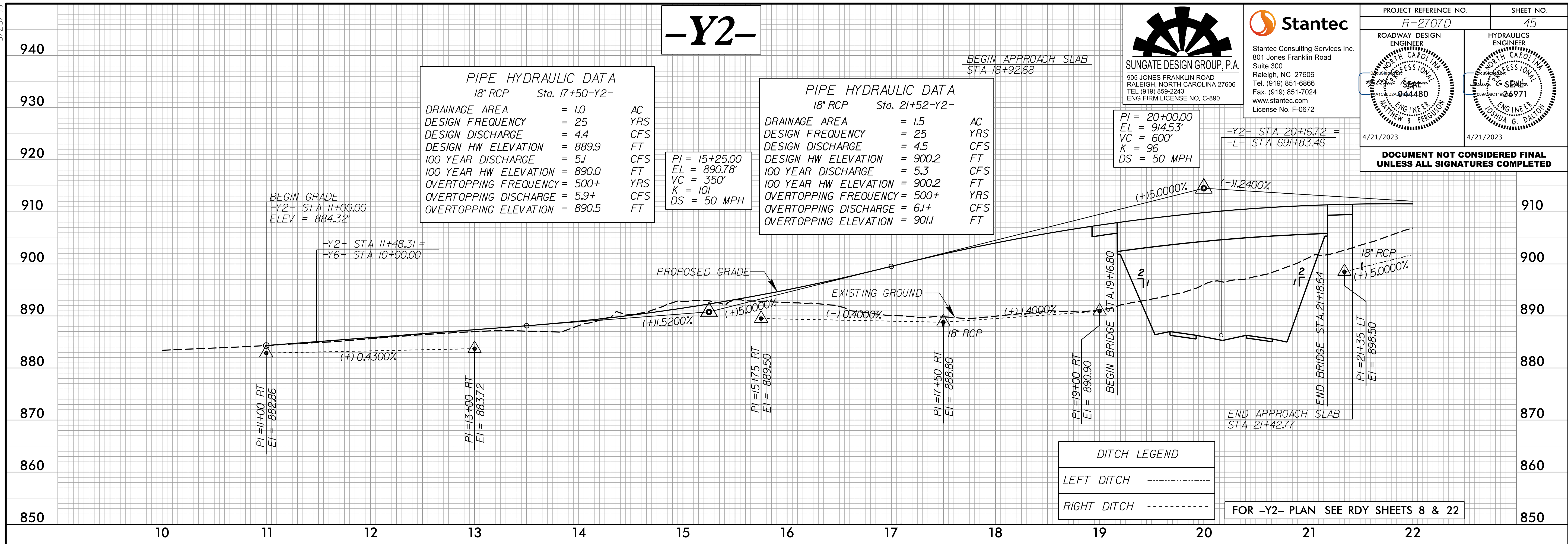
**PIPE HYDRAULIC DATA**  
18" RCP Sta. 17+50-Y2-

DRAINAGE AREA	= 1.0	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.4	CFS
DESIGN HW ELEVATION	= 889.9	FT
100 YEAR DISCHARGE	= 5J	CFS
100 YEAR HW ELEVATION	= 890.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 5.9+	CFS
OVERTOPPING ELEVATION	= 890.5	FT

**PIPE HYDRAULIC DATA**  
18" RCP Sta. 21+52-Y2-

DRAINAGE AREA	= 1.5	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 4.5	CFS
DESIGN HW ELEVATION	= 900.2	FT
100 YEAR DISCHARGE	= 5.3	CFS
100 YEAR HW ELEVATION	= 900.2	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 6J+	CFS
OVERTOPPING ELEVATION	= 901J	FT

PI = 20+00.00  
EL = 914.53'  
VC = 600'  
K = 96  
DS = 50 MPH



**DITCH LEGEND**

LEFT DITCH - - - - -

RIGHT DITCH - - - - -

FOR -Y2- PLAN SEE RDY SHEETS 8 & 22

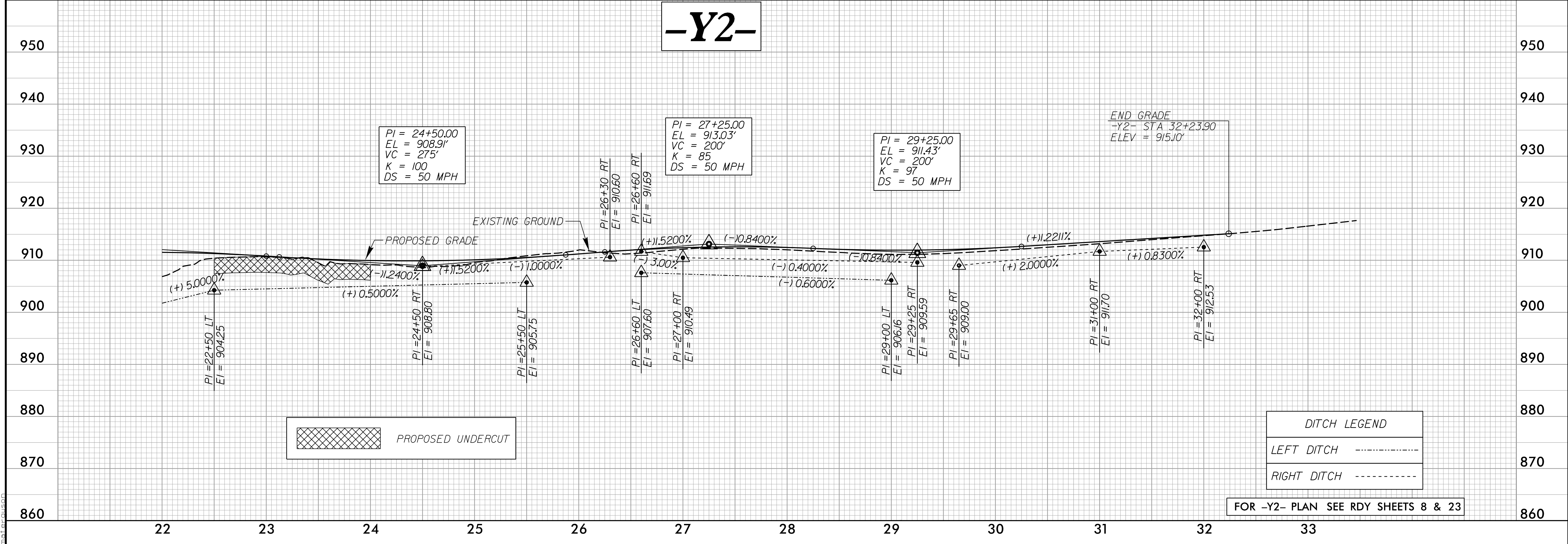
# -Y2-

PI = 24+50.00  
EL = 908.91'  
VC = 275'  
K = 100  
DS = 50 MPH

PI = 27+25.00  
EL = 913.03'  
VC = 200'  
K = 85  
DS = 50 MPH

PI = 29+25.00  
EL = 911.43'  
VC = 200'  
K = 97  
DS = 50 MPH

END GRADE  
-Y2- STA 32+23.90  
ELEV = 915.10'



**DITCH LEGEND**

LEFT DITCH - - - - -

RIGHT DITCH - - - - -

FOR -Y2- PLAN SEE RDY SHEETS 8 & 23

4/15/2023  
C:\Users\mferguson\documents\working\dms42562\R2707D\_RDY\_PEL\_PSH2.dgn  
mferguson