

5/28/17

-L2-



PROJECT REFERENCE NO. R-5311A	SHEET NO. 14
ROADWAY DESIGN ENGINEER SEAL 032074 DENA C. SMOAD	HYDRAULICS ENGINEER SEAL 034364 DEVON C. CORNER
DocuSigned by: Dena C. Smoad 5/10/2017	DocuSigned by: Devon C. Corner 5/10/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

PIPE HYDRAULIC DATA
24" RCP STA 15+41 -L2-

DRAINAGE AREA	= 10	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 16	CFS
DESIGN HW ELEVATION	= 47.8	FT
100 YEAR DISCHARGE	= 19	CFS
100 YEAR HW ELEVATION	= 48.3	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 23	CFS
OVERTOPPING ELEVATION	= 51.3	FT

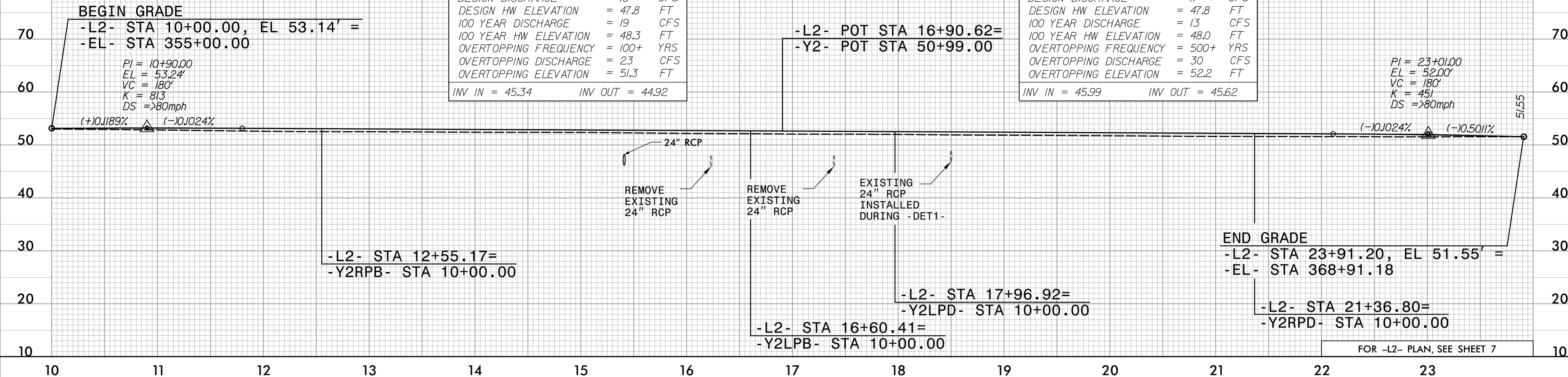
INV IN = 45.34 INV OUT = 44.92

PIPE HYDRAULIC DATA
EXISTING 24" RCP STA 18+50 -L2-

DRAINAGE AREA	= 10	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 11	CFS
DESIGN HW ELEVATION	= 47.8	FT
100 YEAR DISCHARGE	= 13	CFS
100 YEAR HW ELEVATION	= 48.0	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 30	CFS
OVERTOPPING ELEVATION	= 52.2	FT

INV IN = 45.99 INV OUT = 45.62

PI = 23+01.00
EL = 52.00'
VC = 180'
K = 451
DS = >80mph



FOR -L2- PLAN, SEE SHEET 7

-Y1-

PIPE HYDRAULIC DATA
24" RCP STA 24+35 -Y1-

DRAINAGE AREA	= 4	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 9	CFS
DESIGN HW ELEVATION	= 53.2	FT
100 YEAR DISCHARGE	= 10	CFS
100 YEAR HW ELEVATION	= 53.3	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 37	CFS
OVERTOPPING ELEVATION	= 59.8	FT

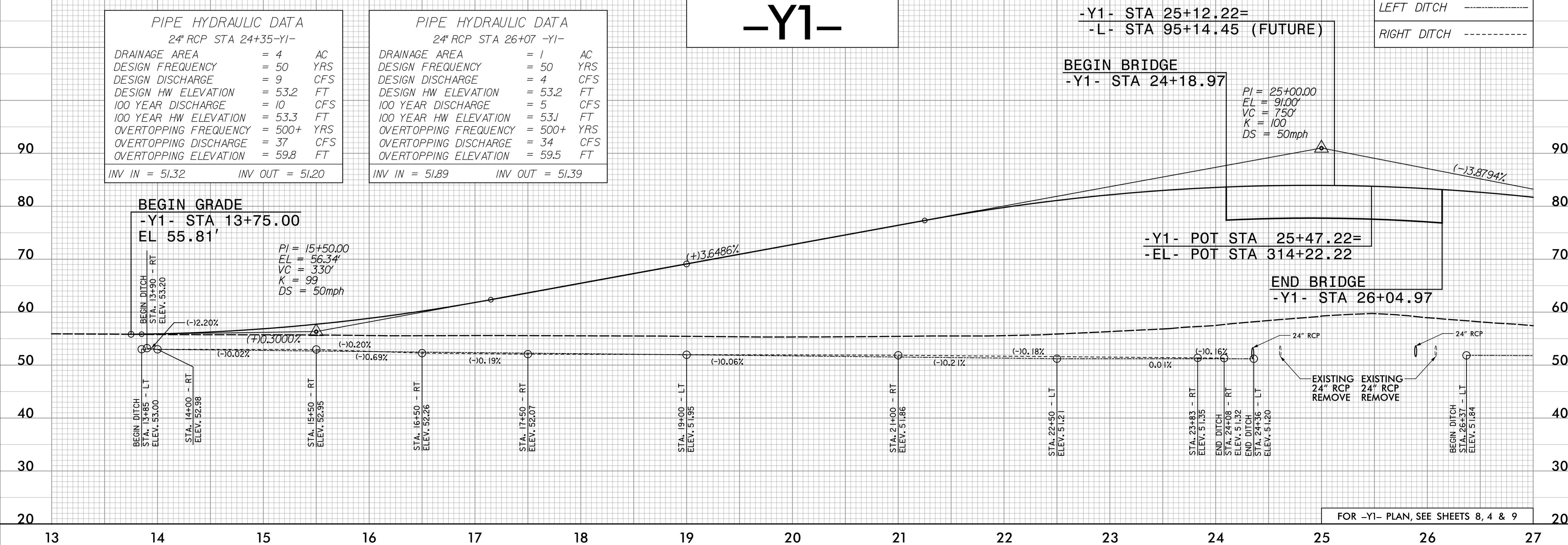
INV IN = 51.32 INV OUT = 51.20

PIPE HYDRAULIC DATA
24" RCP STA 26+07 -Y1-

DRAINAGE AREA	= 1	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4	CFS
DESIGN HW ELEVATION	= 53.2	FT
100 YEAR DISCHARGE	= 5	CFS
100 YEAR HW ELEVATION	= 53.1	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 34	CFS
OVERTOPPING ELEVATION	= 59.5	FT

INV IN = 51.89 INV OUT = 51.39

-Y1- STA 25+12.22=
-L- STA 95+14.45 (FUTURE)



FOR -Y1- PLAN, SEE SHEETS 8, 4 & 9

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