5/28/99

10/16/2019 – CONSTRUCTION REVISION: REVISED BEGIN BASE DITCH RT TO START AT –L– STA. 228+80.00 EL. 286.51. HN

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PROJECT REFERENCE NO.	SHEET NO.
R-3825B	32

ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT	NOT A CERTIFIED DOCUMENT AS TO THE ORIGINAL DOCUMENT
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY : EDWARD GLENN EDENS, JR. 18470 ON 08/09/2018	THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY : MEME D. BUSCEMI 037863 ON 08/09/2018
THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.	THIS DOCUMENT IS ONLY CERTIFIED AS TO THE REVISIONS.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HYDRAULICS ENGINEER
DocuSigned by: Matthew Tork
E0B2B4B81141D...
PROFESSIONAL SEAL 043912 ENGINEER Matthew J. Tork
10/16/2019
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–L–

–L– Sta 221+60.97 =
–Y12A– Sta 13+31.89

PI = 218+60.00
EL = 311.25'
VC = 320'
K = 157
DS = 60 MPH

(+)0.4071%
(–)1.6360%
PROPOSED GRADE
EXISTING GROUND
(–) 0.6800%
(–)1.6360%
(–) 9.9500%

CONTINUE V-DITCH LT
PI =224+50.00
EI = 301.72

END V-DITCH LT
PI =225+50.00
EI = 301.04

BEGIN BASE DITCH LT
PI =228+00.00
EI = 294.70

BEGIN BASE DITCH RT
PI =228+80.00
EI = 286.51

PI =229+00.00 LT
EI = 284.75

LEFT DITCH
RIGHT DITCH
FOR –L– PLAN SEE SHEET 20

216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00 225+00 226+00 227+00 228+00 229+00

PIPE HYDRAULIC DATA
–L– STA. 231+11

DRAINAGE AREA	= 38.4	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 90.0	CFS
DESIGN HW ELEVATION	= 284.08	FT
100 YEAR DISCHARGE	= 100.0	CFS
100 YEAR HW ELEVATION	= 284.43	FT
OVERTOPPING FREQUENCY	= 500 +	YRS
OVERTOPPING DISCHARGE	= 188.0	CFS
OVERTOPPING ELEVATION	= 289.00	FT

–L– Sta 236+09.68 =
–Y12B– Sta 11+49.07

BM#12
N: 693,343
E: 2,192,918
ELEV= 296.28'

PI =231+10.00 RT
EI = 275.14

PI = 232+00.00
EL = 289.33'
VC = 180'
K = 157
DS = 65 MPH

PI = 235+00.00
EL = 287.85'
VC = 180'
K = 687
DS = 80 MPH

PI = 236+90.00
EL = 286.42'
VC = 200'
K = 154
DS = 60 MPH

PI = 241+40.00
EL = 288.87'
VC = 150'
K = 177
DS = 60 MPH

(–) 0.4545%
(–) 2.3000%
(–) 4.9425%
(–) 4.0448%
(–)1.6360%
(–)0.4926%
(+) 1.4512%
(–)0.4926%
(–)0.7545%
(–)0.7545%
(+)0.5453%
PROPOSED GRADE
EXISTING GROUND
(+)0.5453%
(–)0.3000%

PI =229+00.00 LT
EI = 284.75

PI =229+50.00 LT
EI = 283.60

END BASE DITCH LT
PI =229+72.00
EI = 283.50

END BASE DITCH RT
PI =231+63.00
EI = 273.00

BEGIN V-DITCH LT
PI =233+23.00
EI = 285.00

END V-DITCH LT
PI =234+50.00
EI = 286.84

PI =229+00.00 LT
EI = 284.75

LEFT DITCH
RIGHT DITCH
FOR –L– PLAN SEE SHEET 21

229+00 230+00 231+00 232+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00

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