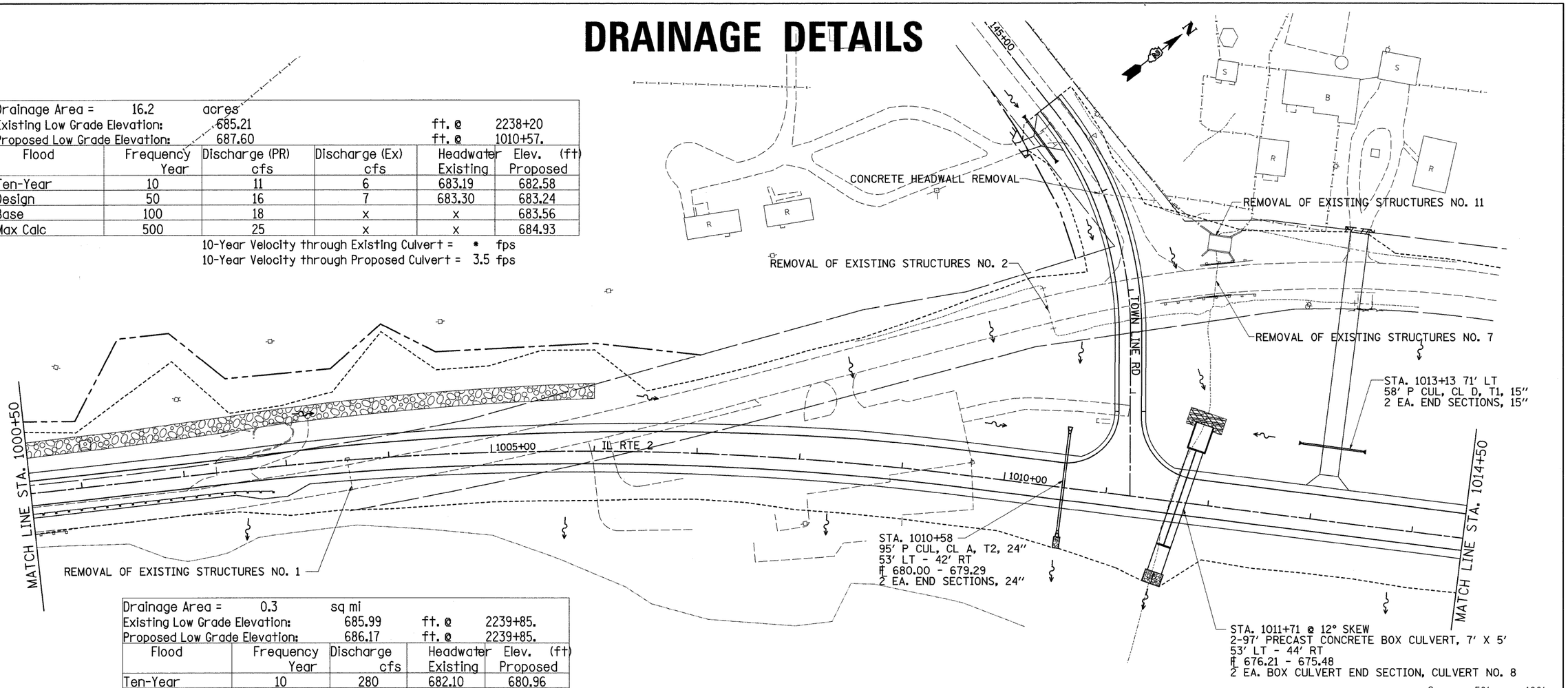
DRAINAGE DETAILS

Drainage Area =	16.2	acres			
Existing Low Grade Elevation:		685.21		ft. @	2238+20
Proposed Low Grade Elevation:		687.60		ft. @	1010+57.

Flood	Frequency Year	Discharge (PR) cfs	Discharge (Ex) cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	11	6	683.19	682.58
Design	50	16	7	683.30	683.24
Base	100	18	x	x	683.56
Max Calc	500	25	x	x	684.93

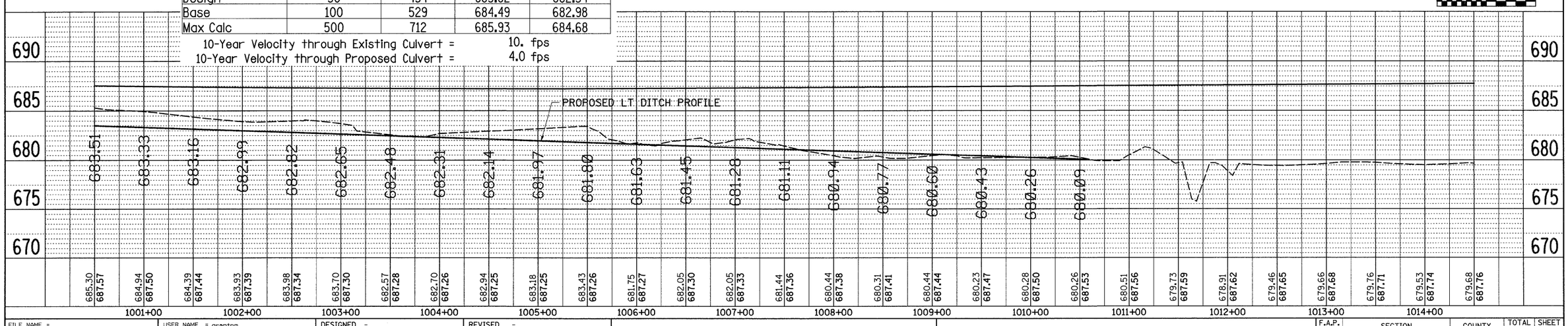
10-Year Velocity through Existing Culvert = * fps
10-Year Velocity through Proposed Culvert = 3.5 fps



Drainage Area =	0.3	sq mi		
Existing Low Grade Elevation:		685.99	ft. @	2239+85.
Proposed Low Grade Elevation:		686.17	ft. @	2239+85.

Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	280	682.10	680.96
Design	50	454	683.82	682.34
Base	100	529	684.49	682.98
Max Calc	500	712	685.93	684.68

10-Year Velocity through Existing Culvert = 10. fps
10-Year Velocity through Proposed Culvert = 4.0 fps



PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / BAL. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK NO. / BY / DATE

FILE NAME = c:\pw_work\PWIDOT\GRANTPM\dms31213\d0660dr2.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 10:33:56 2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
742	37R-4	OGLE	867	346
		CONTRACT NO. 64E17		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT