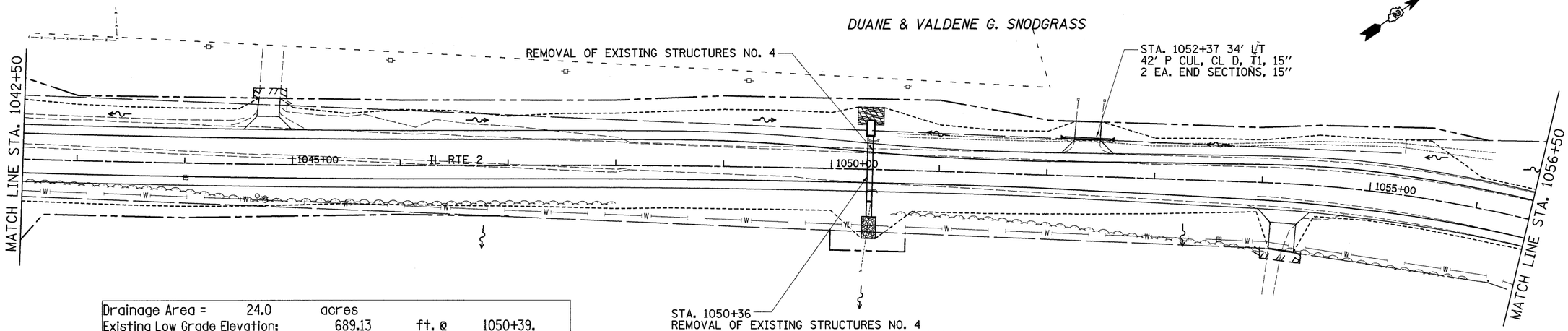
DRAINAGE DETAILS



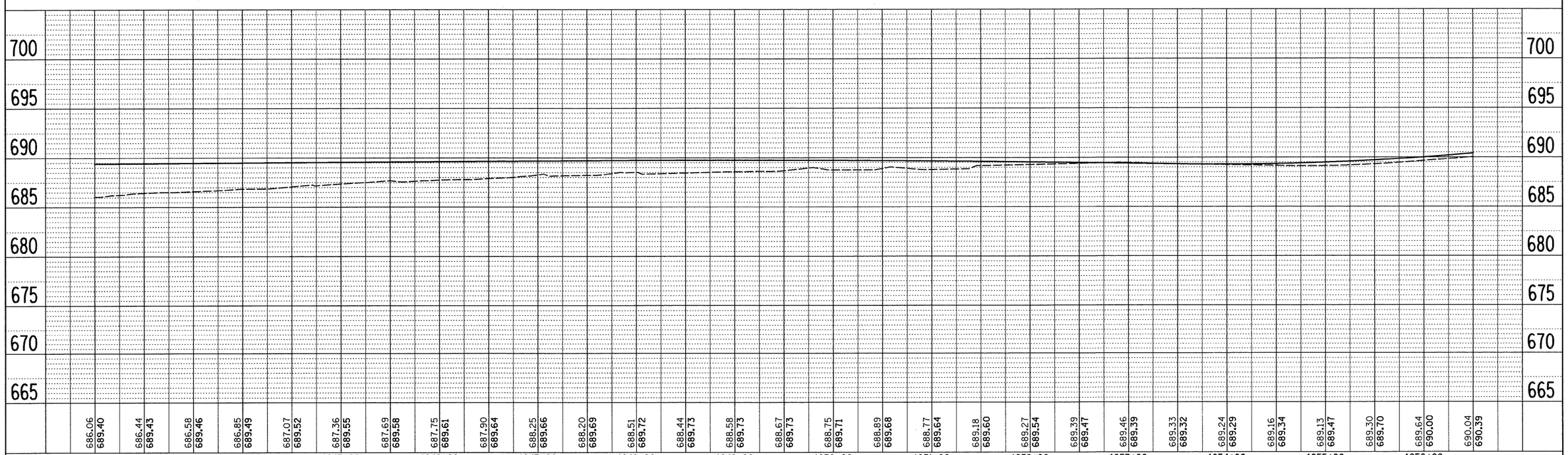
Drainage Area =	24.0	acres		
Existing Low Grade Elevation:		689.13	ft. @	1050+39.
Proposed Low Grade Elevation:		689.69	ft. @	1050+36.

Flood	Frequency Year	Discharge cfs	Headwater Elev. (ft) Existing	Proposed
Ten-Year	10	32	686.21	686.79
Design	50	70	688.09	688.40
Base	100	86	689.28	689.36
EX Overtopping	99	78	688.65	
Max Calc	155	91		689.69

10-Year Velocity through Existing Culvert = 5.5 fps
10-Year Velocity through Proposed Culvert = 6.6 fps

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

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CH'KD — NOTE BOOK NO. — BY — DATE



FILE NAME = c:\pw_work\PWIDOT\GRANTPM\dms31213\d06608dr2.dgn	USER NAME = grantpm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Tue Mar 30 10:33:59 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	349

CONTRACT NO. 64E17

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