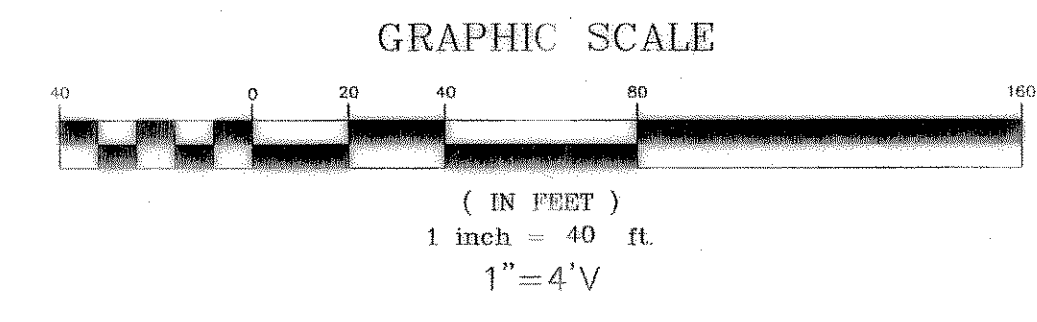


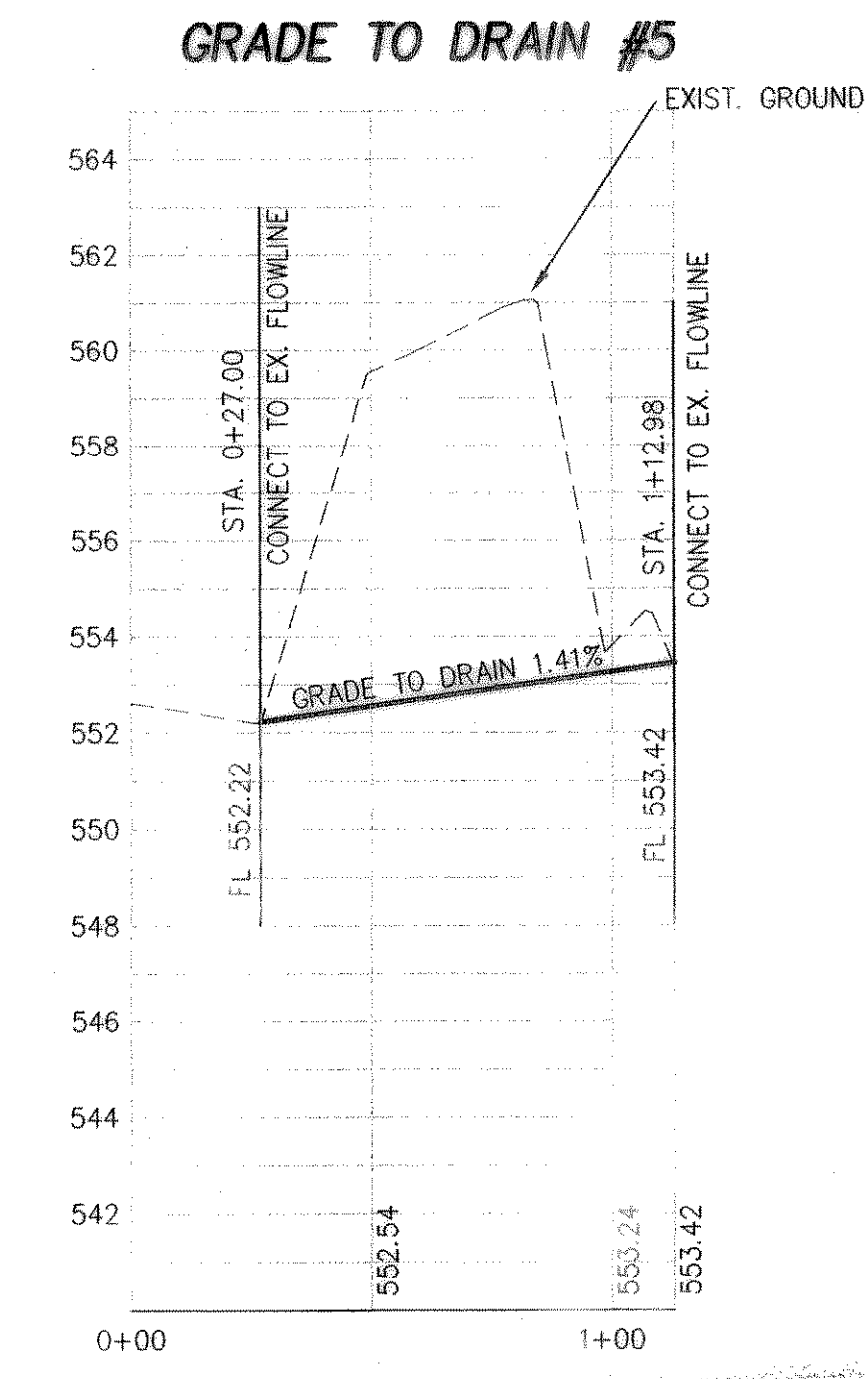
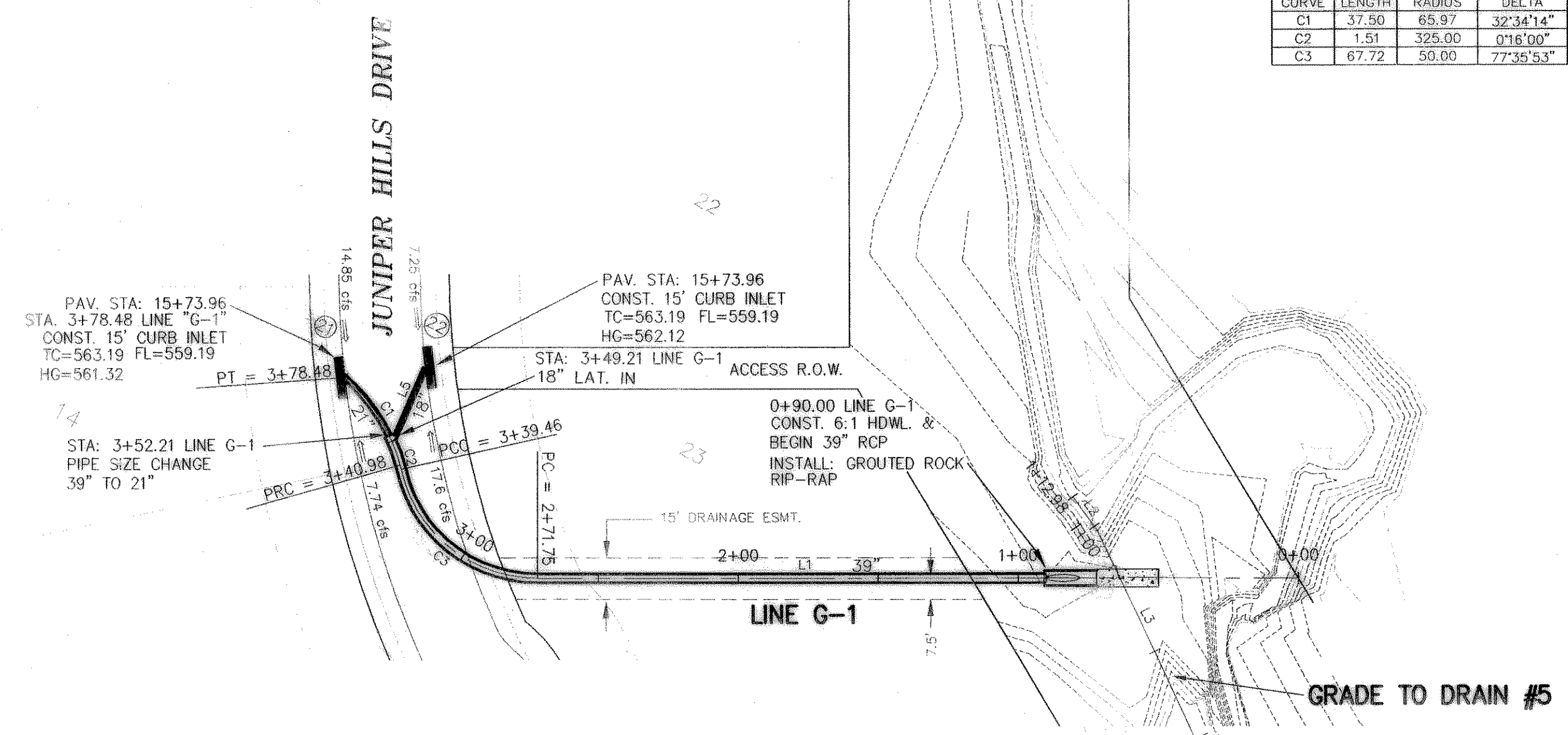
DOUPHRADE & ASSOCIATES, INC.
 ENGINEERING PROJECT MANAGEMENT SURVEYING
 22335 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
 PHONE: (972)771-9004 FAX: (972)771-9005

STORM SEWER PLAN ? PROFILE
 LINE G-1 ? GRADE TO DRAIN #5
 TIMBER CREEK ESTATES, PHASE II
 ROCKWALL COUNTY, TEXAS

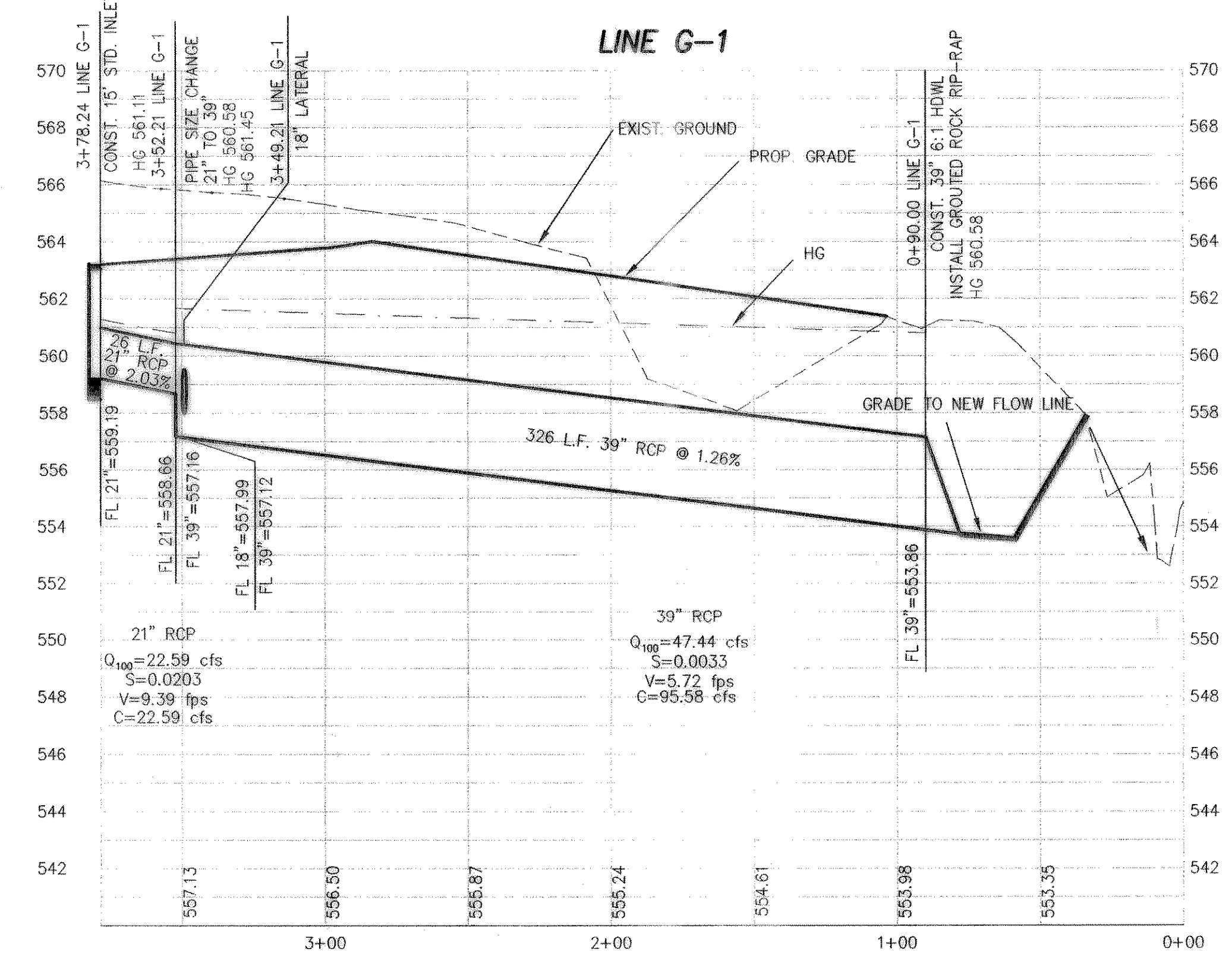


LINE	LENGTH	BEARING
L1	271.75	S60°48'45"W
L2	14.38	N69°34'16"W
L3	71.84	S54°20'39"E
L4	26.77	S53°32'05"E
L5	29.34	S05°28'15"E

CURVE	LENGTH	RADIUS	DELTA	CB	CD
C1	37.50	65.97	32°34'14"	N61°25'41"W	37.00
C2	1.51	325.00	0°16'00"	S41°27'23"E	1.51
C3	67.72	50.00	77°35'53"	S80°23'19"E	62.66



STM G-1	352.21	90.00	262.21		47.44	39	92.68	5.72	5.72	0.50	1.00		0.8125	0.8707	8.2958	0.0033	0.0126	0.8656	560.58	Starting
Junction Loss	378.24	352.21	26.03		22.59	21	22.59	9.39	9.39	1.01	1.00		1.0000	0.4375	0.5763	2.4053	0.0203	0.0199	-0.8619	560.58
																			0.5291	561.11



REVISED TO CONFORM TO CONSTRUCTION RECORDS.
 DATE: 5/2/01

REVISION	
CHECKED	W.L.D.
DRAWN	KEB.
DATE	12/02
PROJECT	9913STM13
	73A
	OF