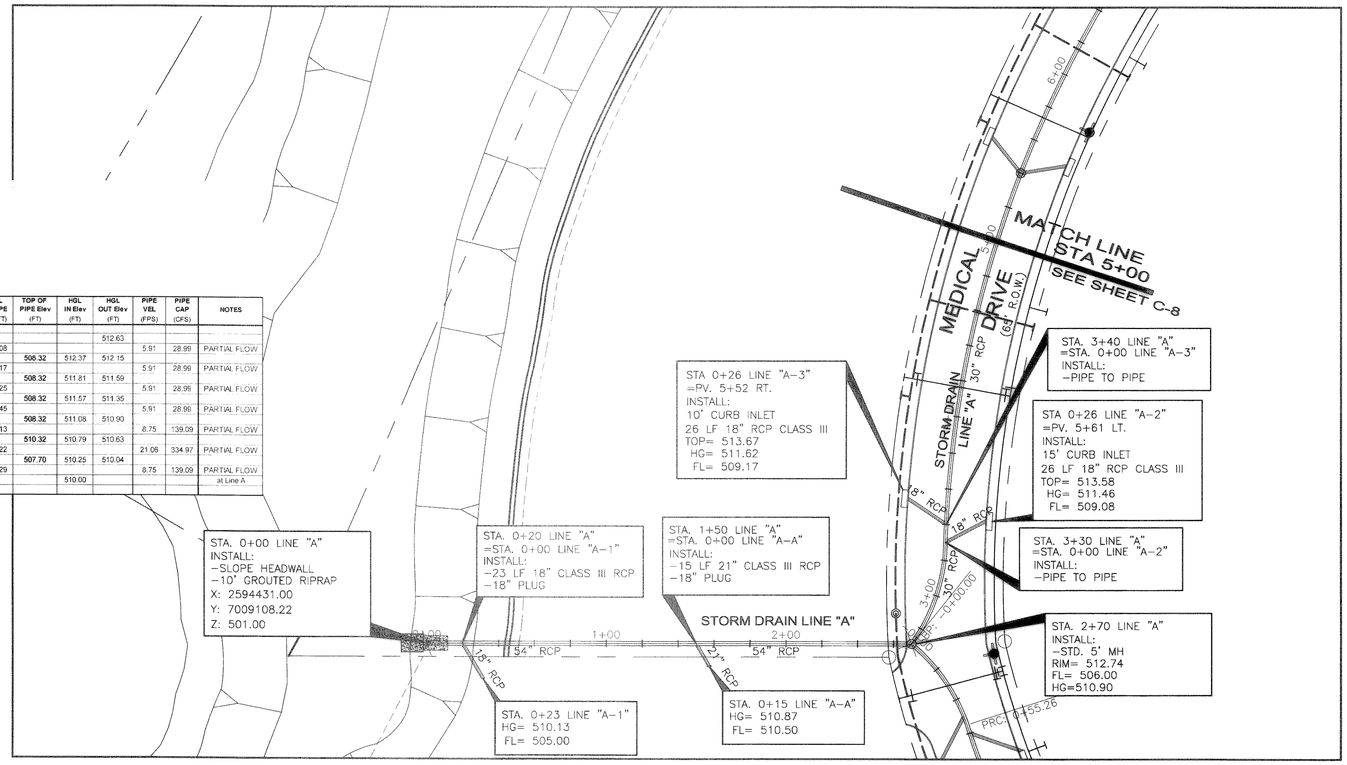
STORM DRAINAGE SYSTEM DESIGN

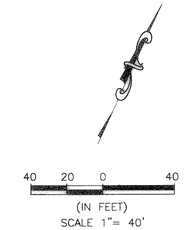
PROJECT: MEDICAL DRIVE

STORM DATA REFERENCE : *USWS Technical Paper No. 40*
PIPE MATERIAL : *Class III – Reinforces Concrete Pipe*

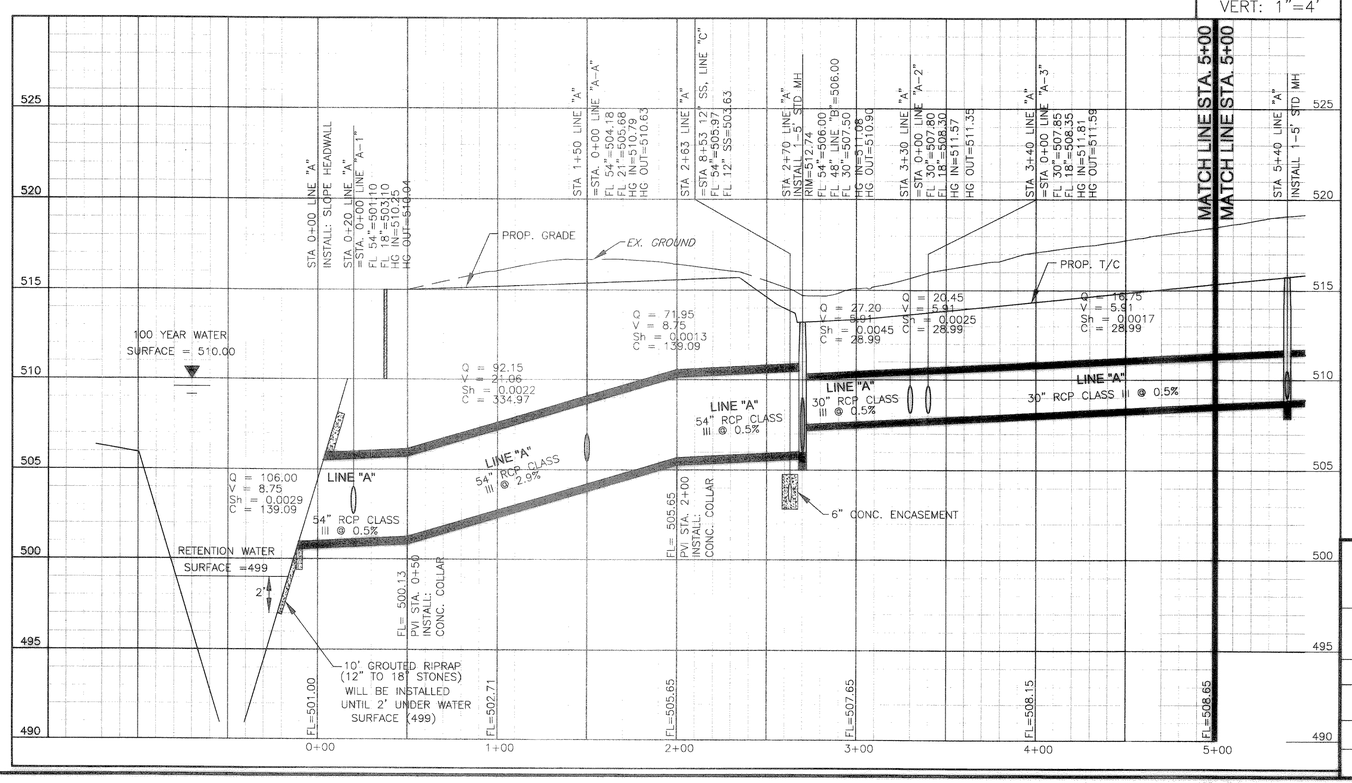
DRAINAGE SYSTEM : Line "A"

DRAIN No.	AREA (AC)	RUNOFF COEFF (C)	TIME (MIN)	RAINFL INT	Q-100 (CFS)	INLET TYPE	INLET CAP (CFS)	STATION (FT)	LINE LENGTH (FT)	Q-100 IN-PIPE (CFS)	PIPE SIZE (INCH)	PIPE AREA (SF)	PIPE SLOPE (FT/FT)	Flowline IN Elev (FT)	Flowline OUT Elev (FT)	FLOW COOF (n= 013)	HGL SLOPE (FT/FT)	TOP OF PIPE Elev (FT)	HGL IN Elev (FT)	HGL OUT Elev (FT)	PIPE VEL (FPS)	PIPE CAP (CFS)	NOTES
B&C	1.35	0.90	10.00	9.80	11.90	MH	10	910							508.00					512.63			
									310	11.90	30	4.91	0.0050			410	0.0008				5.91	28.99	PARTIAL FLOW
H&G	0.55	0.90	10.00	9.80	4.85	MH	10	600						505.82	505.82			508.32	512.37	512.15			
									220	16.75	30	4.91	0.0050			410	0.0017				5.91	28.99	PARTIAL FLOW
L	0.42	0.90	10.00	9.80	3.70	10' INLET	10	380						505.82	505.82			508.32	511.81	511.59			
									10	20.45	30	4.91	0.0050			410	0.0025				5.91	28.99	PARTIAL FLOW
I	0.80	0.90	10.00	9.80	7.06	10' INLET	10	370						505.82	505.82			508.32	511.57	511.35			
									60	27.50	30	4.91	0.0050			410	0.0045				5.91	28.99	PARTIAL FLOW
D,J,K, M&N	5.04	0.90	10.00	9.80	44.45	MH	10	310						505.82	505.82			508.32	511.08	510.90			
									120	71.95	54	15.90	0.0050			1,967	0.0013				8.75	139.09	PARTIAL FLOW
P	2.29	0.90	10.00	9.80	20.20	10' INLET	10	190						505.82	505.82			510.32	510.79	510.63			
									175	92.15	54	15.90	0.0290			1,967	0.0022				21.06	334.97	PARTIAL FLOW
Q	1.57	0.90	10.00	9.80	13.85	10' INLET	10	15						505.20	505.20			507.70	510.25	510.04			
									15	106.00	54	15.90	0.0050			1,967	0.0029				8.75	139.09	PARTIAL FLOW
END								0						499.00					510.00				at Line A





HORZ: 1"=40'
VERT: 1"=4'



BENCH MARK

IRON ROD FOUND IN THE R.O.W. OF HORIZON ROAD AND NORTHEAST CORNER OF HORIZON RIDGE MEDICAL PARK ADDITION

ELEVATION (m.s.l.) 499.06

AS BUILT

THIS IS TO CERIFY THAT CHANGES AND CORRECTIONS HAVE BEEN MADE TO CONFORM TO THE CONTRACTOR'S RECORD OF THIS PROJECT.

STATE OF TEXAS
NARONGRIT BUTRIEN
06-23-08

PLAN AND PROFILE
STORM DRAIN LINE "A" (1)

HORIZON RIDGE MEDICAL PARK

CITY OF ROCKWALL, TEXAS

PSA ENGINEERING
17819 DAVENPORT ROAD, SUITE 215 DALLAS, TX 75252 (972) 248-9651

DESIGN	DRAWN	DATE	SCALE	CHECK	FILE	NO.
PSA	PSA	06/23/08	AS SHOWN	PSS	2616.HRM	C-7

AS BUILT

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