

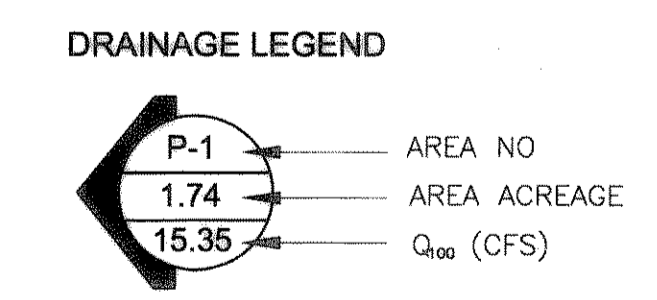
PROJECT: PRESBYTERIAN HOSPITAL @ ROCKWALL
 STORM DATA REFERENCE: USWS Technical Paper No. 40
 PIPE MATERIAL: Class III - Reinforced Concrete Pipe

DRAINAGE SYSTEM: Line "P"

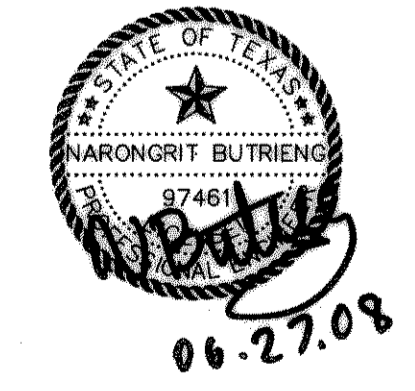
DRAIN No.	AREA (AC)	RUNOFF COEFF (C)	TIME (MIN)	RAINFALL INT (CFS)	Q ₁₀₀ (CFS)	INLET TYPE	STATION	LINE LENGTH (FT)	Q ₁₀₀ IN-PIPE (CFS)	PIPE SIZE (INCH)	CSB SIZE	PIPE AREA (SF)	PIPE SLOPE (FT/FT)	Flowline IN Elev (FT)	Flowline OUT Elev (FT)	FLOW COEFF (0-0.15)	HDL SLOPE (FT/FT)	TOP OF PIPE Elev (FT)	HDL IN Elev (FT)	HDL OUT Elev (FT)	PIPE VEL (FPS)	PIPE CAP (CFS)	NOTES
Q-1					409.00	CONC BOX	409	2,437		Ex 3-48"				529.68			6.388	533.88	522.16	520.15	11.37	428.52	TIC = 537.00
R-1 & R-2	1.95	0.90	10.00	9.80	17.29	2-10" INLET	25	2,383						528.31	529.31		7.881	533.31	519.81	506.67	31.23	1374.02	PARTIAL FLOW
P-1	1.74	0.90	10.00	9.80	15.35	10" INLET	25	2,135						522.33	522.33		7.881	526.33	506.00	516.88	16.56	728.66	PARTIAL FLOW
P-2	7.92	0.90	10.00	9.80	69.85	"	65	1,996.52						520.88	520.88		7.881	524.88	516.43	517.85	13.52	594.97	PARTIAL FLOW
P-3	1.17	0.90	10.00	9.80	10.32	"	25	1,970						520.72	520.72		7.881	524.72	517.73	517.73	13.52	594.97	PARTIAL FLOW
P-4	1.25	0.90	10.00	9.80	11.03	PIPE	75	1,803.74						518.52	518.52		7.881	522.52	516.04	516.04	13.52	594.97	PARTIAL FLOW
P-5	2.83	0.90	10.00	9.80	24.97	"	25	1,448.32						517.43	517.43		7.881	521.43	515.29	506.20	27.72	1330.39	PARTIAL FLOW
H-1, H-2, P-7&P-8	13.67	0.90	10.00	9.80	120.57	PIPE	45	1,162.25						508.85	508.85		7.881	512.85	504.69	513.52	14.13	678.36	FULL FLOW
P-8	2.03	0.90	10.00	9.80	17.90	HDWL	25	660						506.22	504.22		14.738	510.22	511.16	510.60	15.35	736.90	PARTIAL FLOW
H-3	2.52	0.90	10.00	9.80	22.23	"	25	455						503.21	503.21		14.738	509.21	509.70	511.73	10.23	736.90	PARTIAL FLOW
P-9	1.60	0.90	10.00	9.80	14.11	"	25	440						503.17	503.17		14.738	509.17	511.70	511.70	10.23	736.90	PARTIAL FLOW
Line T	6.27	0.90	10.00	9.80	55.30	"	25	360						502.97	502.97		14.738	508.97	511.50	511.27	10.94	787.91	FULL FLOW
H-4	4.51	0.90	10.00	9.80	38.78	PIPE	35	150						502.41	502.41		14.738	508.41	510.67	510.47	11.50	827.69	FULL FLOW
END						HDWL								502.00				510.00	510.00				

DRAINAGE AREA CALCULATION

AREA	T _c (MIN)	C	i ₁₀₀ (IN/HR)	A (AC)	Q ₁₀₀ (CFS)
P-1	10	0.9	9.8	1.74	15.35
P-2	10	0.9	9.8	7.92	69.85
P-3	10	0.9	9.8	1.17	10.32
P-4	10	0.9	9.8	1.25	11.03
P-5	10	0.9	9.8	2.83	24.97
P-6	10	0.9	9.8	1.25	11.03
P-7	10	0.9	9.8	3.09	27.25
P-8	10	0.9	9.8	2.03	17.91
P-9	10	0.9	9.8	1.60	14.11
R-1	10	0.9	9.8	0.90	7.94
R-2	10	0.9	9.8	1.06	9.35
H-1	10	0.9	9.8	6.92	61.03
H-2	10	0.9	9.8	2.41	21.26
H-3	10	0.9	9.8	2.52	22.23
H-4	10	0.9	9.8	4.51	39.77
T-1	10	0.9	9.8	4.39	38.72
T-2	10	0.9	9.8	1.46	12.83
T-3	10	0.9	9.8	0.78	6.88
TOTAL					421.83



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



DRAINAGE AREA MAP FOR HOSPITAL AND HORIZON ROAD
 HORIZON ROAD (FM 3097), SUMMER LEE DRIVE, AND TUBBS ROAD IMPROVEMENTS
 CITY OF ROCKWALL, TEXAS

PSA ENGINEERING
 17819 DAVENPORT ROAD, SUITE 215 DALLAS, TX 75262 (972) 249-9651

DESIGN	DRAWN	DATE	SCALE	CHECK	FILE	NO.
RNB	PSA	06/27/08	AS SHOWN	PSS	2607.PHR	C-1

AS BUILT