

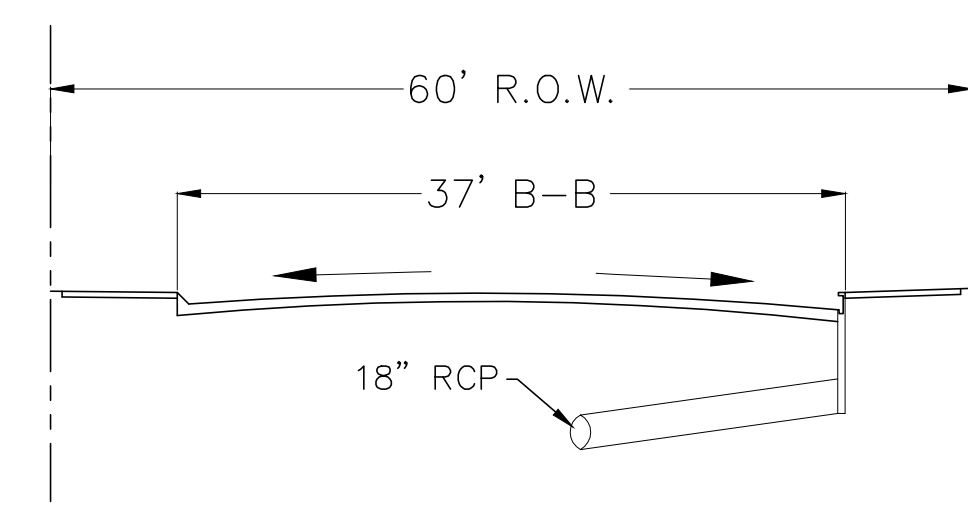
REF. OF EXIST. STORM:  
 1) EXISTING STORM INFO. IS REFERENCED  
 FROM CITY OF ROCKWALL, BODIN  
 INDUSTRIAL TRACT, PLAN #78166

**LEGEND**

- = PROPERTY LINE
- 460 --- = EXISTING CONTOURS
- 1 = AREA # (F= FUTURE)
- 0.00 = ACRES
- 0.00 = CFS

Present Conditions Zoning LI

DRAINAGE AREA CALCULATIONS											
DESIGN POINT ID	RUNOFF COEF. "C"	"Ca"	AREA "A" Acres	TOTAL "CA"	Time of Concentration (Mn.)	Intensity 110yr in/hr	Discharge 110yr cfs	Intensity 100yr in/hr	Discharge 100yr cfs	Comments	
1	0.35	1	2.030	0.71	20.00	5.90	4.19	8.30	5.90	To Kristy Lane	
2	0.35	1	0.400	0.14	20.00	5.90	0.83	8.30	1.16	To Kristy Lane	
5	0.35	1	1.110	0.39	20.00	5.90	2.29	8.30	3.22	To Kristy Lane	
1A= 1A+2A DEV.	0.35	1	0.560	0.20	10.00	7.10	1.39	9.80	1.92	To Kristy Lane	
Total			4.100								
Off-Site											
3	0.9	1	0.670	0.60	10.00	7.10	4.28	9.80	5.91	To Kristy Lane	
4	0.9	1	1.100	0.99	10.00	7.10	7.03	9.80	9.70	To Kristy Lane	
6	0.9	1	1.210	1.09	10.00	7.10	7.73	9.80	10.67	To Kristy Lane	
7	0.9	1	0.200	0.18	10.00	7.10	1.28	9.80	1.76	To Kristy Lane	



SECTION 1  
 KRISTY LANE STA: 5+75  
 6" CURB, 10' INLET

**INLET / STREET CAPACITY**

Flow from Site (Detained Flow)	5.93 + 2.94 =	8.87 cfs	
Flow from overall DA Map Areas 3,4,7	5.0 + 8.22 + 1.49 =	14.71 cfs	C103
Flow in Street prior to inlet		23.58 cfs	

**Street Flow Prior to Inlet in Kristy**

Project Description	
Solve For	Spread
Input Data	
Channel Slope	0.06000 ft/ft
Discharge	23.58 ft <sup>3</sup> /s
Gutter Width	1.00 ft
Gutter Cross Slope	0.03 ft/ft
Road Cross Slope	0.03 ft/ft
Roughness Coefficient	0.013
Results	
Spread	12.72 ft
Flow Area	2.24 ft <sup>2</sup>
Depth	0.35 ft
Gutter Depression	0.00 ft
Velocity	10.53 ft/s



CASE # SP2019-047

**PRE DRAINAGE AREA PLAN**  
**BACON PLUMBING OFFICE**

2055 KRISTY LANE  
 LOT 1-M, BODIN INDUSTRIAL TRACT, 3.54 ACRES  
 City of Rockwall, Rockwall County, Texas

owner  
**BACON PROPERTY, LLC**  
 295 RANCH TRAIL  
 ROCKWALL, TEXAS 75032  
 CONTACT: BRAD BACON (972)236-5794

prepared by  
**MONK CONSULTING ENGINEERS, INC.**  
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**AS-BUILT**  
 May 12, 2021  
 Gerald Monk  
 GERALD E. MONK, P.E.

TO THE BEST OF OUR KNOWLEDGE MONK CONSULTING ENGINEERS, INC. HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.