

C:\USERS\NKERAN\APPDATA\LOCAL\TEMP'ACPUBLISH_15860\TD180033GP2.DWG PRINTED BY: NKERAN 1.10.20 @ 3:20 PM LAST SAVED BY: NKERAN

C VALUE CALCULATIONS

DRAINAGE AREA	AREA (AC)	PAVEMENT C=0.90	INDUSTRIAL C=0.85	WEIGHTED COEFFICIENT
B1	0.39	0.26	0.13	0.883
B2.1	0.13	0.13	0.00	0.900
B2.2	0.46	0.00	0.46	0.850
B2.3	0.01	0.00	0.01	0.850
B2.4	0.01	0.00	0.01	0.850
B2.5	0.14	0.00	0.14	0.850
B2.6	0.10	0.06	0.04	0.880
В3	0.32	0.22	0.10	0.884
B4	0.73	0.00	0.73	0.850

*COEFFICIENT VALUES BASED ON TXDOT DESIGN PLANS.

LEGEND

SWALE	
SWALE	
RIDGE	
DIRECTION OF DRAINAGE	<u></u>
PROP. AREA BOUNDARY	
EXISTING CONTOUR	601
PROPOSED CONTOUR	701
PROPERTY LINE	
DRAINAGE AREA NUMBE	ER B3
AREA (ACR	1

DRAINAGE GENERAL NOTES:

- CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- SEE GRADING SHEET C-401 FOR DETAILED INFORMATION ON STORM DRAIN LINES.
- 3. ALL RESPONSIBILITY FOR ADEQUACY OF DESIGN REMAINS WITH THE DESIGN ENGINEER. THE CITY OF ROCKWALL, IN REVIEWING AND RELEASING PLANS FOR CONSTRUCTION, ASSUMES NO
- 4. CI-F18 AND CI-F19 ARE 15', TY II CURB INLETS. SEE NOTE 5 BELOW FOR THE REFERENCE PLAN SET.

RESPONSIBILITY FOR ADEQUACY OR ACCURACY OF DESIGN.

 REFER TO TXDOT PLANS TITLED "SH 205 0451-01-032 AS-BUILT INDEX VOL II" PREPARED BY PARSONS BRINKERHAFF QUADE & DOUGLAS, INC. DATED 6/9/06.

FLOOD NOTE:

ACCORDING TO FLOOD INSURANCE RATE MAP (FIRM) NO. 48397C0040L, EFFECTIVE SEPTEMBER 26, 2008, ROCKWALL COUNTY, TEXAS, THIS PROPERTY IS WITHIN ZONE X. NO 100-YEAR FLOODPLAIN EXISTS ON THE SITE.

5-YR DRAINAGE AREA TABLE

DRAINAGE AREA	AREA (AC)	RUNOFF COEFFICIENT "C"	C*A	TIME OF CONCENTRATION (MINUTES)	RAINFALL INTENSITY "I ₅ " (IN/HR)	PROPOSED FLOW Q ₅ (CFS)	COLLECTION POINT
B1	0.39	0.883	0.341	10	6.93	2.38	CI-F21
B2.1	0.13	0.900	0.117	10	6.93	0.81	CI-F21
B2.2	0.68	0.850	0.578	10	6.93	4.01	CI-F20
B2.3	0.01	0.850	0.009	10	6.93	0.06	CI-F20
B2.4	0.01	0.850	0.009	10	6.93	0.06	CI-F20
B2.5	0.14	0.850	0.119	10	6.93	0.82	CI-F20
B2.6	0.10	0.880	0.088	10	6.93	0.61	CI-F20
В3	0.32	0.884	0.282	10	6.93	1.96	CI-F19
B4	0.95	0.850	0.621	10	6.93	4.30	CI-F18
			TOTAL EXISTING $Q_{5\mathrm{YR}}$ TO TXDOT SYSTEM			15.13 CFS	
			TOTAL PROPOSED $Q_{5\mathrm{YR}}$ TO TXDOT SYSTEM			15.01 CFS	

100-YR DRAINAGE AREA TABLE

DELTA Q_{5 YR} TO TXDOT SYSTEM <u>- 0.12 CFS</u>

DRAINAGE AREA	AREA (AC)	RUNOFF COEFFICIENT "C"	C*A	TIME OF CONCENTRATION (MINUTES)	RAINFALL INTENSITY "I ₁₀₀ " (IN/HR)	PROPOSED FLOW Q ₁₀₀ (CFS)	COLLECTION POINT
B1	0.39	0.883	0.341	10	9.80	3.38	CI-F21
B2.1	0.13	0.900	0.117	10	9.80	1.15	CI-F21
B2.2	0.68	0.850	0.578	10	9.80	5.66	CI-F20
B2.3	0.01	0.850	0.009	10	9.80	0.09	CI-F20
B2.4	0.01	0.850	0.009	10	9.80	0.09	CI-F20
B2.5	0.14	0.850	0.119	10	9.80	1.17	CI-F20
B2.6	0.10	0.880	0.088	10	9.80	0.86	CI-F20
В3	0.32	0.884	0.282	10	9.80	2.76	CI-F19
B4	0.95	0.850	0.621	10	9.80	6.09	CI-F18
			TOTAL EXISTING Q _{100 YR} TO TXDOT SYSTEM			21.40 CFS	

*TXDOT PLANS UTILIZE A RUNOFF COEFFICIENT OF 0.9 FOR PAVEMENT AREAS WITHIN THE TXDOT RIGHT-OF-WAY. ALL PRIVATE DEVELOPMENT IS CALCULATED USING A COEFFICIENT BY USE - AN INDUSTRIAL USE WITH A COEFFICIENT VALUE OF 0.85. BECAUSE THE PAVEMENT VALUES WITHIN THE TXDOT ROW ARE NEGLIGIBLY IMPACTED AND THE COEFFICIENT BY USE REMAINING, THE FLOW VALUES WERE MINIMALLY

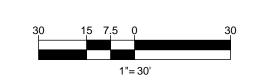
IMPACTED. A DECREASE IN DISCHARGE WILL BE INCURRED WITH THE RUNOFF CALCULATIONS. HENCE, THE

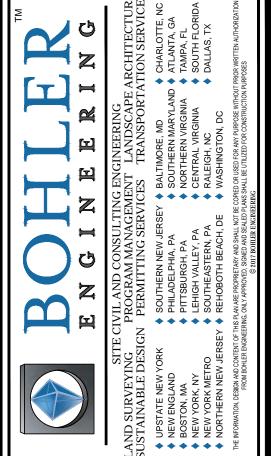
EXISTING STORM SYSTEM WILL HAVE ADEQUATE CAPACITY FOR THE PROPOSED DEVELOPMENT

IMPROVEMENTS INCLUDED IN THIS PLANSET.

TOTAL PROPOSED Q_{100 YR} TO TXDOT SYSTEM 21.25 CFS







REVISIONS				
REV	DATE	COMMENT	BY	
1	3/18/19	DOMESTIC WATER REVISION	МЈН	
2	4/19/19	TAS REVIEW COMMENTS	MJH	
	_			



BEFORE YOU DIG
It's fast. It's free. It's the law.

ASBUILT

RECORD DRAWING

OJECT No.: TD180

 DRAWN BY:
 M

 CHECKED BY:
 D

 DATE:
 02/25/2

 SCALE:
 1"=

 CAD I.D.:
 H

CONSTRUCTION DOCUMENTS

FOR —

brakes plus (a).

LOCATION OF SITE

1902 S. GOLIAD ST

LOTS 1 & 2, BLOCK A, BILLY

PEOPLES ADDITION NO. 1

ROCKWALL, TX 75087

ROCKWALL COUNTY



6017 MAIN STREET FRISCO, TX 75034 Phone: (469) 458-7300 TX@BohlerEng.com



HEET TITLE:

PROPOSED DRAINAGE AREA MAP

C-403

CASE NUMBER: SP2018-030