

PRE-PAVING DRAINAGE TABLE (SEE SHEET 4)

DRAINAGE AREA NO.	ACRES	T.C. (MIN.)	C	I 100 YR.	Q 100 YR.	SUM Q 100 YR.	COMMENTS
1	0.06	10	0.5	9.8	0.29	0.29	TO 205
2	0.04	10	"	9.8	0.49	0.49	TO 205
3	0.23	"	"	"	1.13	1.13	TO OFF-SITE
4	0.12	"	0.9	9.8	1.10	2.23	TO OFF-SITE

POST-PAVING DRAINAGE TABLE

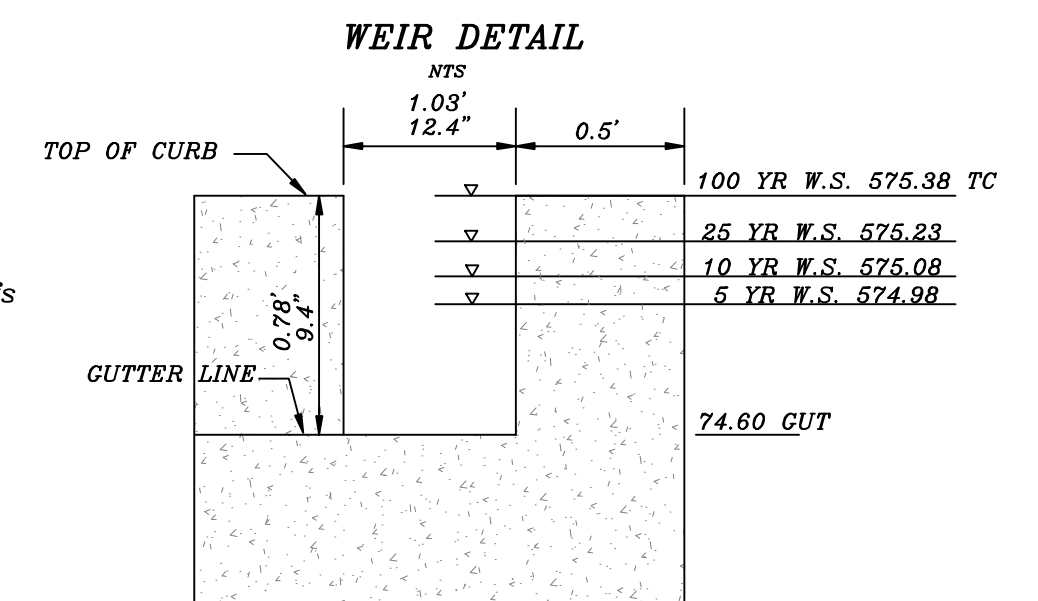
DRAINAGE AREA NO.	ACRES	T.C. (MIN.)	C	I 100 YR.	Q 100 YR.	SUM Q 100 YR.	COMMENTS
1	0.08	10	0.9	9.8	0.71	0.71	TO 205
2	0.25	10	"	9.8	2.21	2.21	TO DETNTN
3	0.12	10	"	9.8	1.10	3.31	TO DETNTN - PASS THROUGH

PRE- CONSTRUCTION CONDITIONS TOTAL ALLOWABLE RELEASE RATE Q = 1.62 CFS
 POST CONSTRUCTION BYPASSED Q = .71 CFS
 ALLOWABLE RELEASE RATE FROM DETENTION POND Q = 2.72 - .71 = 2.01 CFS

REVISED TO CONFORM TO CONSTRUCTION RECORDS.
[Signature] DATE: 6-16-16

WEIR CALCULATIONS

Rectangular Suppressed Weir
 $Q = 3.33 h^{3/2} (L - 2h)$
 $Q = \text{Exist. Conditions Flowrate Allowed} = 2.01 \text{ cfs}$
 $h = \text{Height of Weir} = 9.4 \text{ in.} = .78 \text{ ft.}$
 $L = \text{Length of Weir}$
 $2.01 = 3.33 (.78)^{3/2} (L - .2(.78))$
 $L = 1.03 \text{ ft.} = 12.4 \text{ in.}$



$\Delta = 1'05''00''$
 $R = 2917.29'$
 $T = 27.58'$
 $L = 55.16'$
 $CH = N43^{\circ}02'34'' W$
 $55.16'$

DETENTION REQUIRED - 1,765 C.F.
 DETENTION PROVIDED - 1,836 C.F.

STORM	d	STORAGE VOLUME STAGE		
		ELEVATION	VOLUME	Qallowable / Qactual
5 YR	0.60	574.98	985.1	1.37 / 1.37
10 YR	0.48	575.08	1157.2	1.62 / 1.62
25 YR	0.63	575.23	1394.1	1.85 / 1.85
100 YR	0.78	575.38	1764.9	2.01 / 2.01

POST PAVING DRAINAGE AREA MAP

RUSTIC WAREHOUSE
 1411 S. GOLIAD ST.
 B.J.T. LEWIS SURVEY, ABST. 255
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

REVISION
 WLD.
 CHECKED
 G.C.W.
 DRAWN
 SCALE
 1" = 20' H
 1" = V
 DATE
 DEC. 2015
 PROJECT
 15029
 4A/7

DOUPHRADE & ASSOCIATES, INC.
 ENGINEERING • PROJECT MANAGEMENT • SURVEYING
 2235 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
 PHONE: (972)771-9004 FAX: (972)771-9005

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