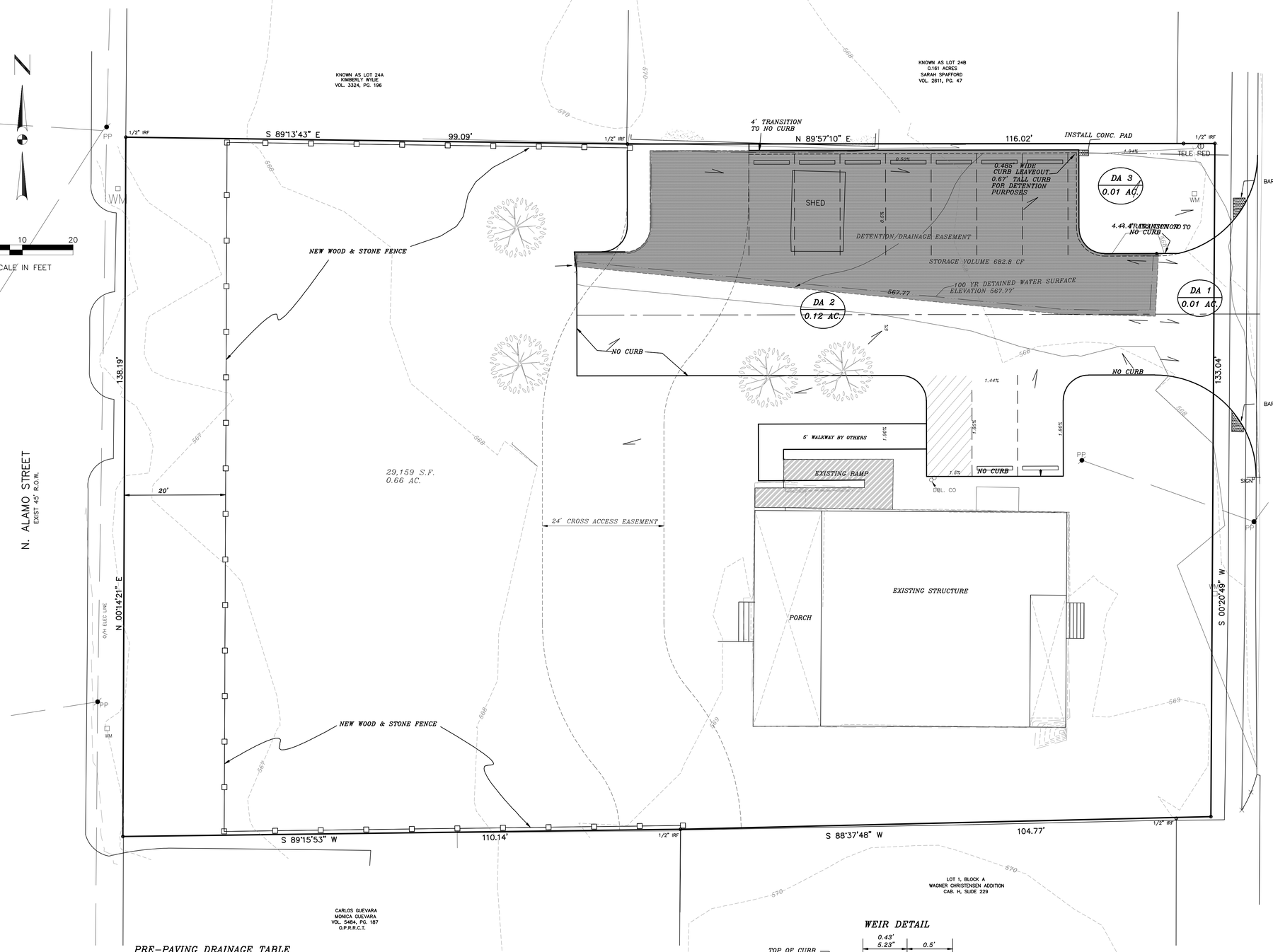


REVISED TO CONFORM TO CONSTRUCTION RECORDS.

DATE: 12-30-15

LEGEND

DA 1 / 0.07 AC. — DRAINAGE AREA NO. / DRAINAGE AREA

FLOW ARROWS

PRE-PAVING DRAINAGE TABLE

DRAINAGE AREA NO.	ACRES	T.C. (MIN.)	C	I 100 YR.	Q 100 YR.	SUM Q 100 YR.	COMMENTS
1	0.01	10	0.5	9.8	0.05	0.05	TO 205
2	0.12	"	"	"	0.59	0.64	TO 205
3	0.01	"	"	"	0.05	0.69	TO 205

POST-PAVING DRAINAGE TABLE

DRAINAGE AREA NO.	ACRES	T.C. (MIN.)	C	I 100 YR.	Q 100 YR.	SUM Q 100 YR.	COMMENTS
1	0.01	10	0.9	9.8	0.09	0.09	TO 205-BYPS
2	0.12	"	0.9	"	1.06	1.15	TO DETNTN
3	0.01	"	0.9	"	0.09	1.24	TO 205

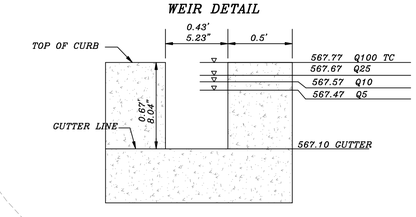
WEIR CALCULATIONS

Rectangular Suppressed Weir

$Q = 3.33\ h1^{3/2}\ (L-.2h1)$
Q = Exist. Conditions Flowrate = 0.64 cfs
h1 = Height of Weir = 8.04 in. = 0.67 ft.
L = Length of Weir

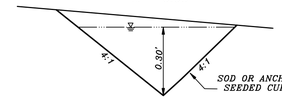
0.64 = 3.33 (.67)$^{1.5}$ (L − .2(.67))
L = 0..48 ft. = 5.8 in.

WEIR DETAIL



STORAGE VOLUME STAGE					
STORM	d	ELEVATION	VOLUME	Qallowable	Qactual
5 YR	0.455'	567.555	366.6	0.34	0.34
10 YR	0.52'	567.62	428.2	0.40	0.40
25 YR	0.57'	567.67	520.26	0.46	0.46
100 YR	0.67'	567.77	688.74	0.55	0.55

Q = 0.69 cfs
S = .0194
V = 1.91 FPS
d = 0.30 FT
C = 0.69 CFS
n = 0.03



SECTION A-A
NTS

CITY CASE NO. SP2014-026

DOUPHRATE & ASSOCIATES, INC.
ENGINEERING • PROJECT MANAGEMENT • SURVEYING
2235 RIDGE RD., # 200 ROCKWALL, TEXAS 75087
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THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY W.L. DOUPHRATE II TEXAS P.E. NO. 60102, 7-886, ON DATE: JULY 20, 2015

DRAINAGE AREA MAP
OUR HOUSE
803 N. GOLIAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

10-13-15 REV. ACCESS ESMT., EX. RAMP & PARKING
REVISION

W.L.D.
CHECKED

G.C.W.
DRAWN

SCALE
1"=10' H
1"= V

JULY 20, 2015
DATE

15016 DRN 2
PROJECT

6/14