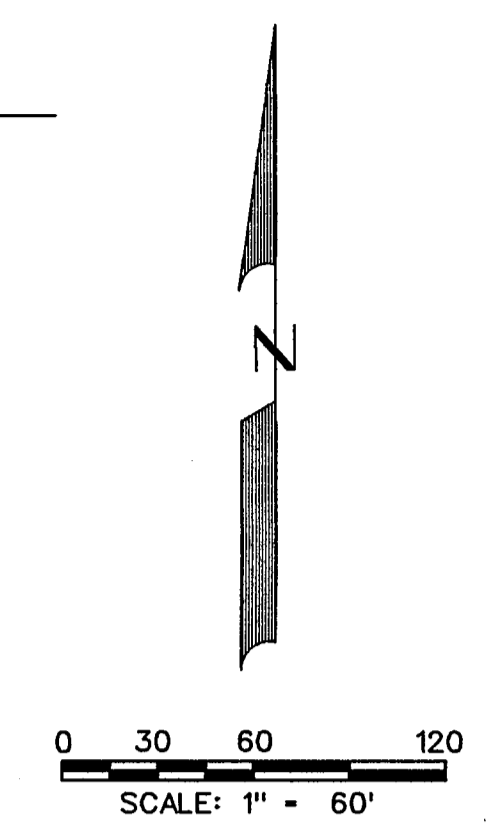


DETENTION FOR THIS DEVELOPMENT HAS ALREADY BEEN PROVIDED FOR BY THE EXISTING DETENTION POND JUST SOUTH OF FM 552 CONSTRUCTED WITH THE STONE CREEK RETAIL ADDITION.

- LEGEND**
- PROP. STORM SEWER
 - PROP. CURB INLETS
 - PROP. CONC. HEADWALL
 - EXIST. STORM SEWER
 - DRAINAGE AREA DIVIDE
 - FLOW ARROW
 - XX DRAINAGE AREA NO.



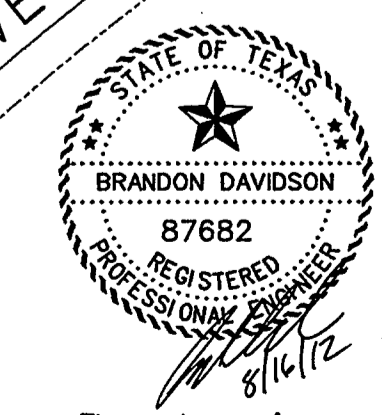
RUNOFF COMPUTATIONS

#	Area (sf)	Area (acres)	Runoff Coefficient	Tc (min)	I(100) (in/hr)	Q(100) (cfs)
1	105461	2.42	0.50	10	9.8	11.9
2	97184	2.23	0.50	10	9.8	10.9
3	71727	1.65	0.50	10	9.8	8.1
4	71557	1.64	0.50	10	9.8	8.0
5	45005	1.03	0.50	10	9.8	5.1
6	43423	1.00	0.50	10	9.8	4.9
7	6945	0.16	0.50	10	9.8	0.8
8	6945	0.16	0.50	10	9.8	0.8
9	40688	0.93	0.50	10	9.8	4.6
10	17447	0.40	0.50	10	9.8	2.0

INLET CALCULATIONS

Inlet #	Location	Station	Design Storm Frequency (yrs.)	Time of Conc. (min.)	Intensity I (in/hr)	Runoff Coeff. "C"	Area (acres)	Q Upstream (cfs)	Carry-Over from Upstream (cfs)	Gutter Flow (cfs)	Total Gutter Capacity (cfs)	Gutter Slope (ft/ft)	Selected Inlet Length (ft)	Carry-Over to Down-stream Inlet (cfs)		
1	Deverson	8+57.88	100	10	9.8	0.50	2.42	11.9	0.0	11.9	13.0	0.50%	6' pbl	15	STD.	0.0
2	Deverson	8+57.88	100	10	9.8	0.50	2.23	10.9	0.0	10.9	13.0	0.50%	6' pbl	15	STD.	0.0
3	Deverson	8+50.80	100	10	9.8	0.50	1.65	8.1	0.0	8.1	13.0	0.50%	6' pbl	15	STD.	0.0
4	Deverson	8+34.74	100	10	9.8	0.50	1.64	8.0	0.0	8.0	13.0	0.50%	6' pbl	15	STD.	0.0
5	Deverson	14+76.50	100	10	9.8	0.50	1.03	5.1	0.0	5.1	22.5	1.88%	6' pbl	15	STD.	0.0
6	Deverson	15+17.90	100	10	9.8	0.50	1.00	4.9	0.0	4.9	22.5	1.88%	6' pbl	15	STD.	0.0

AS-BUILT AUGUST 2012
 BASED ON SURVEYING AT THE SITE AND
 INFORMATION PROVIDED BY CONTRACTORS



The seal appearing on this document was authorized by
 Brandon Davidson
 P.E. 87682, on
 August 16, 2012

CORWIN ENGINEERING, INC.
 200 W. BELMONT, SUITE E
 ALLEN, TEXAS 75013 (972) 396-1200
 TBPE FIRM #5951

DEVELOPMENT PLANS FOR
STONE CREEK PHASE IIB
 ROCKWALL, TEXAS

DRAINAGE AREA MAP

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
	CEI	CEI	3 of 13
JOB NUMBER	DATE	SCALE	
11010	APRIL 2011	1"=60'	