

PROPOSED FLOOD PLAIN LIMITS TIE IN TO EXISTING FLOOD PLAIN LIMITS  
100 YEAR FLOOD PLAIN FULLY CONTAINED IN CULVERT

LIMITS OF ZONE A 100 YEAR FLOOD PLAIN AS INDICATED ON FEMA FIRM PANEL 48397C0030L EFFECTIVE DATE SEPTEMBER 26, 2008

LIMITS OF POST-PROJECT CONDITIONS 100 YEAR FLOOD PLAIN

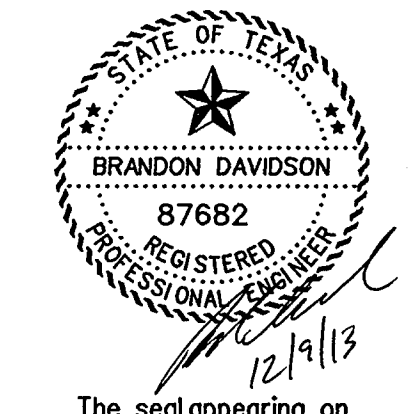
PROPOSED FLOOD PLAIN LIMITS TIE IN TO EXISTING FLOOD PLAIN LIMITS

LIMITS OF PRE-PROJECT CONDITIONS 100 YEAR FLOOD PLAIN

**NOTES:**  
1. CROSS SECTION ELEVATION DATA WAS OBTAINED BY A TOPOGRAPHIC SURVEY OF THE SITE PERFORMED BY HINE-THOMPSON LAND SURVEYING IN OCTOBER 2012 AND ELEVATIONS ARE TIED TO CITY OF ROCKWALL CONTROL MONUMENTS 10 AND 16 WHICH ARE BASED ON NAVD 88

POST-PROJECT CONDITIONS 100-Year HEC RAS RESULTS										
River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	
4830	428.8	519.35	521.15	521.15	521.68	0.0233	5.84	73.74	75.26	
4587	428.8	513.00	519.73	519.74	519.74	0.0001	0.86	540.77	138.23	
4437	390.4	513.00	519.73	513.68	519.73	0.0000	0.35	1108.31	220.27	
Culvert										
4291	390.4	510.40	513.12	513.12	513.50	0.0285	5.52	91.84	112.62	
4188	479.1	508.32	511.24	510.92	511.42	0.0202	4.15	146.88	132.32	
3967	479.1	501.10	505.89	505.74	506.34	0.0288	6.26	100.58	79.53	
3831	479.1	498.10	503.38	503.81	503.81	0.0133	4.07	126.49	58.50	
3669	479.1	496.18	502.19	502.34	502.34	0.0080	3.61	156.49	74.02	
3525	479.1	495.50	500.48	500.89	500.89	0.0185	5.30	97.52	46.09	
3310	479.1	492.48	498.62	498.77	498.77	0.0090	3.09	155.64	53.10	
3134	479.1	491.51	496.42	496.88	496.88	0.0242	5.79	93.28	49.58	
2997	530.1	491.25	495.24	495.37	495.37	0.0055	3.01	192.10	84.62	
2917	530.1	491.50	493.70	493.70	494.36	0.0561	7.14	86.06	67.44	
2800	530.1	490.60	493.65	493.69	493.69	0.0013	1.58	347.06	147.47	
2677	530.1	490.30	493.15	493.33	493.33	0.0099	4.19	171.01	119.22	
2550	530.1	489.63	493.14	493.17	493.17	0.0003	1.48	429.02	161.23	
2396	484.7	489.63	493.10	493.13	493.13	0.0003	1.38	382.92	227.01	
2200	484.7	489.63	492.98	493.04	493.04	0.0007	1.97	250.48	88.51	
2028	484.7	487.50	491.58	491.54	492.00	0.0476	8.09	59.92	28.06	
1973	484.7	488.58	492.07	492.08	492.08	0.0000	0.50	388.86	292.53	
1917	484.7	488.00	491.74	491.74	492.04	0.0378	6.71	134.85	241.82	
1716	484.7	478.80	489.65	489.75	489.75	0.0075	2.47	195.76	143.87	
1622	435.7	476.05	489.52	489.55	489.55	0.0008	1.43	372.25	136.40	
1538	435.7	474.84	489.49	489.50	489.50	0.0003	1.03	515.63	155.71	
1422	435.7	471.64	489.47	489.48	489.48	0.0002	0.96	639.98	157.64	
1284	435.7	471.53	489.46	489.47	489.47	0.0001	0.58	1057.33	237.46	
1202	440.8	470.45	489.46	474.01	489.46	0.0000	0.57	1292.91	293.74	
1119.5										Culvert

PRE-PROJECT CONDITIONS 100-Year HEC RAS RESULTS										
River Sta	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	
4830	428.8	519.35	521.15	521.15	521.68	0.0233	5.84	73.74	75.26	
4587	428.8	513.00	519.73	519.74	519.74	0.0001	0.86	540.77	138.23	
4437	390.4	513.00	519.73	513.68	519.73	0.0000	0.35	1108.31	220.27	
Culvert										
4291	390.4	510.40	513.12	513.12	513.50	0.0285	5.52	91.84	112.62	
4188	479.1	508.32	511.31	510.99	511.52	0.0219	4.42	156.06	133.57	
3967	479.1	501.10	506.05	506.46	506.46	0.0263	6.19	121.07	97.77	
3831	479.1	498.10	503.77	504.02	504.02	0.0135	4.29	136.02	61.01	
3669	479.1	496.18	502.39	502.56	502.56	0.0079	3.73	171.72	76.22	
3525	479.1	494.80	500.69	501.03	501.03	0.0152	5.16	127.32	62.80	
3310	479.1	492.48	498.89	499.05	499.05	0.0061	3.24	170.55	56.24	
3134	479.1	491.51	496.55	497.08	497.08	0.0265	6.19	100.22	51.89	
2997	545.5	491.25	495.22	495.35	495.35	0.0060	3.14	190.17	84.83	
2917	545.5	491.50	494.25	494.57	494.57	0.0206	5.10	126.66	80.77	
2800	545.5	490.60	494.22	494.25	494.25	0.0007	1.31	433.16	154.87	
2677	545.5	490.30	494.03	494.10	494.10	0.0024	2.53	284.05	137.73	
2550	545.5	489.63	494.02	494.04	494.04	0.0001	1.17	578.82	180.89	
2396	545.5	489.63	494.00	494.02	494.02	0.0001	1.13	594.51	243.55	
2200	545.5	489.63	493.95	493.98	493.98	0.0003	1.48	463.80	268.33	
2028	545.5	489.63	493.23	493.23	493.77	0.0299	7.02	110.41	102.54	
1973	545.5	488.58	491.95	491.95	491.95	0.0000	0.54	1021.93	330.41	
1917	545.5	488.00	491.62	491.62	491.91	0.0170	5.57	178.71	288.75	
1716	545.5	478.80	489.42	489.42	489.42	0.0023	1.80	317.35	163.90	
1622	463.4	476.05	481.36	481.37	481.37	0.0004	1.16	492.36	151.42	
1538	463.4	474.84	481.34	481.35	481.35	0.0002	0.88	656.10	175.33	
1422	463.4	471.64	481.33	481.33	481.33	0.0001	0.84	780.49	170.17	
1284	463.4	471.53	481.32	481.32	481.32	0.0000	0.52	1269.59	256.87	
1202	469.7	470.45	481.32	474.08	481.32	0.0000	0.50	1552.52	310.40	
1119.5										Culvert



The seal appearing on this document was authorized by Brandon Davidson P.E. 87682, on December 9, 2013

**CORWIN ENGINEERING, INC.**  
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TBPE FIRM #5951

DEVELOPMENT PLANS FOR  
**STONE CREEK PHASE IV**  
ROCKWALL, TEXAS

FLOOD PLAN WORKMAP

DRAWN BY	DESIGNED BY	CHECKED BY	SHEET NO.
JOB NUMBER	DATE	SCALE:	1 OF 1
12033	FEBRUARY 2013	1"=100'	