



HYDRAULIC ANALYSIS METHODOLOGY

THE EFFECTIVE HEC-RAS MODEL FOR CLEAR CREEK (A100-00-00) WAS OBTAINED FROM THE HARRIS COUNTY FLOOD CONTROL DISTRICT'S (INCFCD) MODEL MANAGEMENT SYSTEM MIGH, THE 4700-00-00 MIS MODEL USES OF MISSING MISSING MANAGEMENT SYSTEM MISS, THE 4700-00-00 MIS MODEL USES OF MISSING MISSING MISSING MANAGEMENT SYSTEM MISSING MODEL USES OF MISSING MISSING

HYDRAULIC ANALYSIS RESULTS

TWO MODEL RUN SCENARIOS WERE CREATED: REVISED EFFECTIVE (REVISED EFFECTIVE MULT-PROFILE 2021) AND THE PROPOSED (PROP EFFECTIVE MULT-PROFILE 2021) AND THE PROPOSED WERE COMPARED BETWEEN THE TWO SCENARIOS AT THE CROSS-SECTION WHERE THE BOAT RAMP IS LOCATED AND SEVERAL CROSS-SECTION UPSTREAM AND DOWNSTREAM, THERE WERE NO INCREASES TO THE WATER SURFACE ELEVATIONS BETWEEN THE REVISED EFFECTIVE AND PROPOSED CONDITIONS. THE TRAILE BELOW SUMMARIZES THE WATER SURFACE ELEVATIONS AT THOSE CROSS-SECTIONS.

HYDRAULIC ANALYSIS CONCLUSION

THE HYDRAULIC ANALYSIS FOR THE PROPOSED BOAT RAMP IMPROVEMENTS
UTILIZED THE LATEST EFFECTIVE HEC-RAS VERSION 3.0.1 MODEL FROM THE HCFCD
MS SYSTEM AND WERE MODIFIED TO ACCOUNT FOR THE EXISTING AND PROPOSED
WATER SURFACE ELEVATION ALONG CLEAR CREEK DUE TO THE PROPOSED BOAT
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MAPP IMPROVEMENTS. NO CONCLUSION, THE PROPOSED BOAT RAMP
MPROVEMENTS RESULT IN NO ADVERSE IMPACTS TO CLEAR CREEK OR ADJACENT
PROPERTIES

NO-RISE CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THERE WILL BE NO INCREASE IN THE BASE FLOOD ELEVATION DURING THE OCCURRENCE OF THE BASE FLOOD EVENT FLOOD FROM THE PROPOSED BOAT RAMP MODIFICATIONS ON CLEAR CREEK IN THE CITY OF LEAGUE CITY, TEXAS.

	REVISED EFFECTIVE				PROPOSED				DELTA (PROP-REVISED EFFECTIVE)			
RIVER	10-YR	50-YR	100-YR	500-YR	10-YR	50-YR	100-YR	500-YR	10-YR	50-YR	100-YR	500-YR
STATION	(ft)											
39765.40	6.44	8.34	9.16	10.75	6.41	8.32	9.13	9.13	-0.03	-0.02	-0.03	-1.62
39372.55	6.42	8.33	9.14	10.73	6.39	8.30	9.11	9.11	-0.03	-0.03	-0.03	-1.62
38390.74	6.39	8.29	9.10	10.69	6.36	8.26	9.08	9.08	-0.03	-0.03	-0.02	-1.61
37679.5*	6.21	8.16	8.99	10.62	6.17	8.11	8.95	8.95	-0.04	-0.05	-0.04	-1.67
37273.21	5.84	7.70	8.52	10.09	5.84	7.70	8.52	8.52	0	0	0	-1.57
37222.00	0	0	0	0	0	0	0	0	0	0	0	0
37212.22	5.79	7.60	8.41	9.96	5.79	7.60	8.41	8.41	0	0	0	-1.55
36556.81	5.75	7.57	8.39	9.96	5.75	7.57	8.39	8.39	0	0	0	-1.57
35779.77	5.54	7.32	8.13	9.66	5.54	7.32	8.13	8.13	0	0	0	-1.53

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1 12/28/22 RCW ISSUE FOR BIDDING & PERMITTING RCW BZ 0 11/2/22 RCW ISSUE FOR BID RCW BZ ISSUE DATE BY

> LEAGUE CITY BOAT RAMP & BULKHEAD

IMPROVEMENT GENERAL LAYOUT

DRAWN BY	DATE	SCALE	снко Б	CW			
JRM	10/9/19	1"=10'	APPVD	BZ			
B-1036-1002-C-1007							

LJA Engineering, inc.

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