

US Army Corps of Engineers
Hays County, Texas
Lower Colorado River Basin
Hays County Interim Feasibility Study
Technical Report Notebook (TRN)
Appendix H
Alternatives Development and
Benefit-Cost Analysis

**Onion Creek, Bear Creek,
Little Bear Creek, Barton Creek, and
Pedernales River Watersheds**

Submitted to:



**US Army Corps
of Engineers®**

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Hays County Interim Feasibility Study Alternative Development and Benefit-Cost Analysis

TABLE OF CONTENTS

OVERVIEW

ALTERNATIVES ANALYSIS CONSIDERATIONS

BENEFIT-COST ANALYSIS

APPENDIX H.1 – ALTERNATIVES

Project Area 1 – Buda Fire Station.

- Background
- Hydraulic Analysis
- Project Description
- Summary
- Other Alternatives

Project Area 2 – Dripping Springs

- Background
- Alternatives Analysis
- Project Description
- Summary

Project Area 3 – Onion Creek Regional Detention

- Background
- Hydrologic Analysis
- Hydraulic Analysis
- Long-term Water Supply Opportunities
- Project Description
- Benefits

Project 4 – Structure Vulnerability Ranking

- Background
- Means and Methodology
- Summary

APPENDIX H.2 – STRUCTURE INVENTORY

APPENDIX H.3 – DIGITAL DATA

LIST OF TABLES

- Table 1: Annual Flood Damage Calculation Example
- Table 2: Summary of Proposed Alternatives

APPENDIX H.1

- Table 1.1 – Buda Fire Station Diversion/Channelization Alternative Opinion of Probable Cost

- Table 1.2 – Buda Fire Station “In-line” Channelization Alternative Opinion of Probable Cost
- Table 2.1 – Walnut Spring Creek Mercer Street Removal Alternative Opinion of Probable Cost
- Table 2.2 – Walnut Spring Creek Upstream Detention Alternative Opinion of Probable Cost
- Table 2.3 – Walnut Spring Creek RR 12 Bypass Culvert Alternative Opinion of Probable Cost
- Table 3.1 – Upper Basin Detention Structure (“Dripping Springs”) Opinion of Probable Cost
- Table 3.2 – Middle Basin Detention Structure (“Rattlesnake”) Opinion of Probable Cost
- Table 3.3 – Lower Basin Detention Structure (“Quarry”) Opinion of Probable Cost
- Table 4.1 – Onion, Barton, and Pedernales Watersheds Urgency Ratings
- Table 4.2 – Top Three Structures

LIST OF FIGURES

- Figure 1 – Alternative Locations

APPENDIX H.1

- Figure 1.1 – Floodplain Exhibit
- Figure 1.2 – Conceptual Grading Exhibit
- Figure 2.1 – Conceptual Mercer Street Removal Analysis
- Figure 2.2 – Conceptual Mercer Street Removal Analysis
- Figure 2.3 – Conceptual Detention Analysis
- Figure 2.4 – Conceptual Bypass Culvert Analysis
- Figure 2.5 – Conceptual Bypass Culvert Analysis
- Figure 2.6 –
- Figure 3.1 – Conceptual Regional Detention Locations
- Figure 3.2 – Conceptual Regional Detention Facilities: Dripping Sopring
- Figure 3.3 – Conceptual Regional Detention Facilities: “Rattlesnake” Pond
- Figure 3.4 – Conceptual Regional Detention Facilities: Buda Quarry
- Figure 3.5 – Comparison of 100 Year Flows of Onion Creek at Hays County Line
- Figure 4.1 – Stream Crossing Urgency Ratings

ALTERNATIVE DEVELOPMENT AND BENEFIT-COST ANALYSIS TECHNICAL REPORT NOTEBOOK

Overview:

The alternative identification, evaluation and recommendations for the Onion Creek, Bear Creek, Little Bear Creek, Barton Creek and Pedernales River basins in Hays County, Texas were performed by Halff Associates under contract with the U.S. Army Corps of Engineers (USACE). This study is part of the Hays County Interim Feasibility study undertaken by the U.S. Army Corps of Engineers in cooperation with Hays County, the Texas Water Development Board, and the Lower Colorado River Authority.

The Onion Creek watershed, which includes the Bear and Little Bear watersheds, is approximately 230 square miles with most of the area being located in Hays County. Detailed and limited detail hydrologic and hydraulic models have been developed for approximately 176 miles of study streams. The Barton Creek and Pedernales River watersheds within Hays County drain approximately 85 square miles. Detailed and limited detail hydrologic and hydraulic models have been developed for both Barton and Pedernales watersheds for approximately 65 miles of study streams.

The alternatives analysis task order focused on completing alternative development and evaluation for three Damage Centers in the Onion Creek watershed as follows:

- Project 1 – Buda Fire Station Alternatives
- Project 2 – Dripping Springs Alternatives
- Project 3 – Onion Regional Detention Alternatives

The Study Area map in Figure 1 shows the location of these three primary damage centers. Development in the Barton Creek and Pedernales River watersheds is not dense and no areas with focused flood damages were defined.

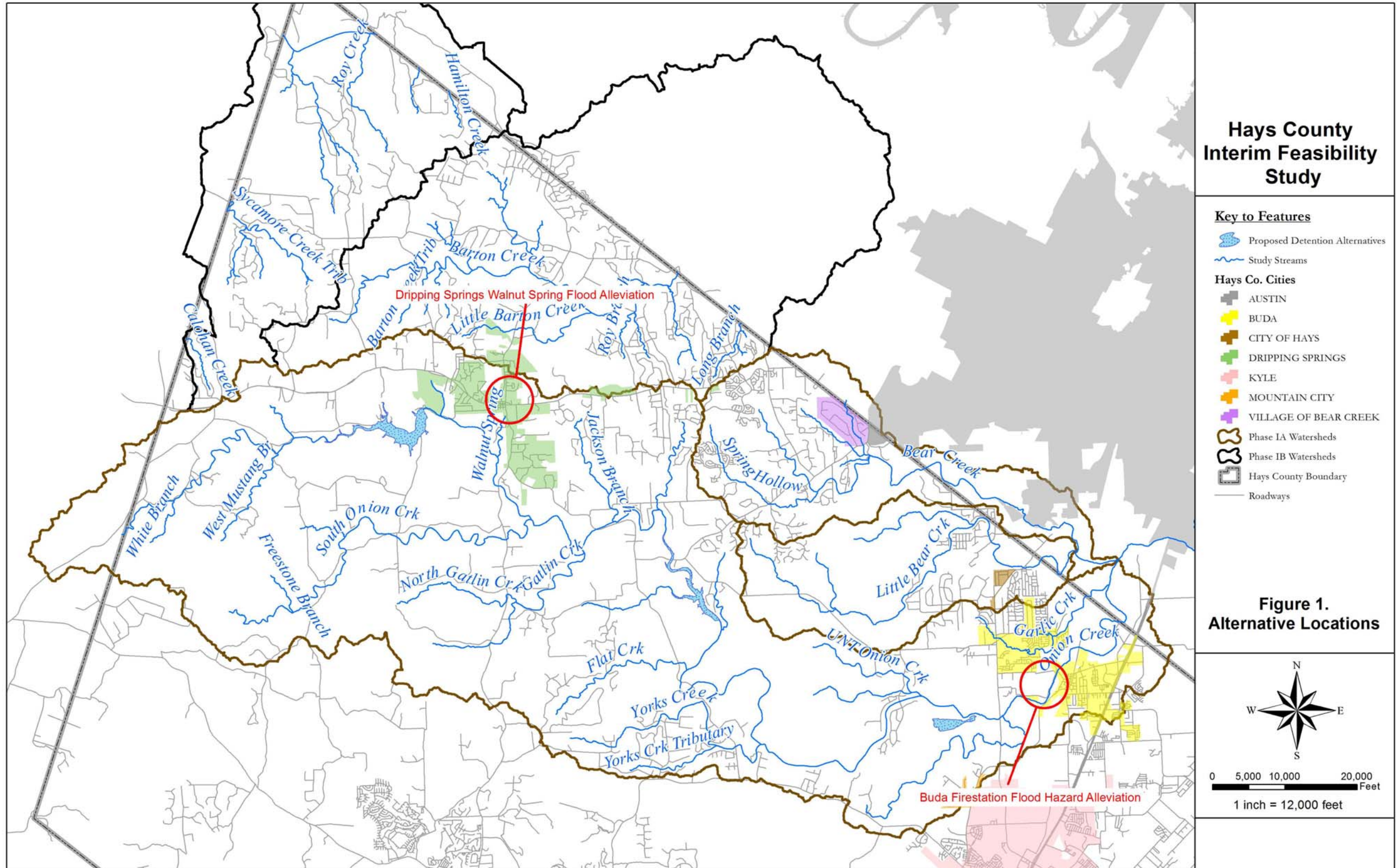
A fourth analysis is included that focuses on a “Structures Ranking” of the various roadway crossings throughout the project area relating the depth of water overtopping the roadway with the average daily traffic.

Alternatives Analysis Considerations:

The purpose of flood risk management studies is to identify and reduce the risk to people, property and the environment by identifying flood risks and bringing flood risk management projects online quickly and efficiently to realize the associated benefits to the local community.

This interim feasibility study has both existing and future condition modeling results. However, existing conditions models will be used for the alternatives analysis. The goals of this analysis are to 1) identify water resource related problems, needs and opportunities specifically related to flood risk management, 2) develop and evaluate alternative solutions to reduce flood damages, 3) use sustainable design methodologies, and 4) provide recommendations for flood reduction that the County can prioritize and implement locally to reduce flood risks to people and the environment.

Alternatives for each of the Damage Centers will be presented individually in the following sections. Each of the project locations presented a different set of hydrologic and hydraulic challenges. As potential alternatives were initially considered, some of them were intuitively



not feasible and were not advanced. Generally, as the various alternatives were screened, plans were considered not viable if the plan would require substantial activity by others or were just not effective in solving the problem. Some alternatives could consist of phases that collectively will address a problem, but may not be able to be funded all at one time. The two main components leading toward an alternative's acceptability relate to implementation and satisfaction by the stakeholders. The proposed alternative must be doable.

The focus of this Task Order was not upon the creation of preliminary plan and profile sheets for construction projects, but instead was in the evaluation of "big-picture concepts" for each set of problems. Both structural and non-structural alternatives were examined. As the specific hydrologic and hydraulics problems at the Damage Centers were evaluated, the alternatives were held up against any environmental constraints that would affect compliance capability. Flood risk damages were identified, and general benefits were associated with each alternative (e.g., homes removed from flooding, structures removed, reduced floodplain area, minimized roadway overtopping). Conceptual design level estimates of project cost were also generated.

In an effort to determine acceptable levels of protection within each problem area, a wide range of flood events were evaluated (2-year to 500-year). Depending upon the needs of the problem area, either hydrologic, hydraulic, or both types of models were developed for specific alternatives. The models and output results for each alternative are included on the CD in Appendix H.3. Each of the subsequent project specific "mini-reports" included in Appendix H.1 contains details regarding the results of the modeling, specific maps depicting the alternatives, and opinions of probable cost for each project. Some of the project areas lend themselves to phased improvements, whereas others appear to have a single phased implementation strategy.

Benefit-Cost Analysis:

A benefit-cost (B/C) analysis was performed to determine the economic viability of the flood damage reduction alternatives in each project area. Benefit-to-cost ratios were developed on a present value basis with an estimated 50-yr project design life. Benefits for each project reflect reductions in flood damages over the "without project" condition.

Flood damages were calculated for each alternative by a simplified method using eight hydraulic profiles (2-yr, 5-yr, 10-yr, 25-yr, 50-yr, 100-yr, 250-yr, and 500-yr frequencies), appraised structure values, and approximate first floor elevations. Appraised structure values were taken from Hays County appraisal district records, and an inventory of structures within the 500-yr floodplain is included in Appendix H.2. Approximate first floor elevations were derived from slab thickness estimations collected during a windshield survey of structures along the study streams. The median slab thickness was added to a base elevation taken from LiDAR for all structures. The resulting elevation for each structure was compared to the elevations of the eight frequency profiles from the nearest model cross-section. Structure values were totaled for homes inundated by each frequency event and multiplied by the respective frequency. The resulting values for each frequency were added together resulting in an estimate of annual flood damages. An example calculation of average annual damages for the Dripping Springs "without project" condition is shown in Table 1. This process was performed for each reach affected by the flood reduction alternatives for the "without project" condition and each proposed alternative scenario.

Table 1: Annual Flood Damage Calculation Example

Recurrence Interval	Frequency	Structure Count	Appraised Value	Annual Damage
2-yr	0.5	0	\$0	\$0
5-yr	0.2	2	\$323,630	\$64,726
10-yr	0.1	2	\$323,630	\$32,363
25-yr	0.04	4	\$598,500	\$23,940
50-yr	0.02	6	\$862,050	\$17,241
100-yr	0.01	7	\$1,005,740	\$10,057
250-yr	0.004	8	\$1,115,890	\$4,464
500-yr	0.002	9	\$1,165,510	\$2,331
Total Annual Damage				\$155,122

Benefits for the benefit-cost ratios represent the reduction in damages provided by each flood reduction alternative. Damage reduction was determined by calculating the present value of the annual damages resulting from each scenario and subtracting the flood damage reduction results from the “without project” results. Present value for all alternatives was calculated based on a 50-yr project life and a 7% discount rate, which is the current rate prescribed in the latest update to Office of Management and Budget (OMB) circular A-94 for use in benefit-cost analysis. Benefit-cost ratios were then determined by dividing the respective flood damage reduction values by the cost associated with each scenario. Table 2 contains a summary of proposed alternatives and benefit-to-cost ratios for each of the three project areas listed.

Table 2: Summary of Proposed Alternatives

Project 1 - Buda Fire Station Alternatives					
Alternatives	Without Project Damages	With Project Damages	Project Benefit	Project Cost	Benefit to Cost Ratio
Culvert/Channel Mod.	\$34,652	\$0	\$34,652	\$776,641	0.045
Diversion to Onion	\$34,652	\$0	\$34,652	\$897,409	0.039
Upstream Detention	\$34,652	\$0	\$34,652	\$1,400,000	0.025
Project 2 - Dripping Springs Alternatives					
Alternatives	Without Project Damages	With Project Damages	Project Benefit	Project Cost	Benefit to Cost Ratio
Mercer Street Removal	\$2,140,799	\$1,991,630	\$149,170	\$90,000	1.66
Buyout	\$2,140,799	\$340,576	\$1,800,223	\$1,000,000	1.80
Detention Facility	\$2,140,799	\$764,604	\$1,376,195	\$2,300,000	0.60
Bypass Culvert	\$2,140,799	\$25,283	\$2,115,516	\$3,700,000	0.57

Project 3 - Conceptual Regional Detention					
Alternatives	Without Project Damages	With Project Damages	Project Benefit	Project Cost	Benefit to Cost Ratio
Quarry Detention	\$2,853,631	\$2,609,321	\$244,310	\$7,184,076	0.034
Rattlesnake Detention	\$2,853,631	\$2,338,977	\$514,654	\$7,357,452	0.070
Quarry + Rattlesnake	\$2,853,631	\$2,288,286	\$565,345	\$14,541,528	0.039
Dripping Springs Detention	\$2,853,631	\$1,710,090	\$1,143,541	\$15,832,956	0.072
Quarry + Dripping Springs	\$2,853,631	\$1,632,925	\$1,220,706	\$23,017,032	0.053
Rattlesnake + Dripping Springs	\$2,853,631	\$1,498,477	\$1,355,154	\$23,190,408	0.058
Quarry +D. Springs +Rsnake	\$2,853,631	\$1,469,026	\$1,384,605	\$30,374,484	0.046

Appendix H.1

Alternatives

Project Area 1

Onion Creek

Buda Fire Station #1 Alternatives Analysis

Background:

The City of Buda and the United States Army Corps of Engineers (USACE) – Fort Worth District requested Halff Associates to perform an alternatives analysis to alleviate the existing flood hazard for a fire station (Buda Fire Department Station #1, 209 F.M. 2770). Local personnel report that within the last 10 years the fire station has flooded with a minimum of 6 inches of water five times. The fire station is located on the south side of Jack C Hays Trail (F.M. 2770), approximately 700 feet west of the intersection of F.M. 2770 and Main Street.

Hydraulic Analysis:

Halff Associate's preliminary hydraulic analysis shows that the frequent flooding of the fire station is a result of the capacity of the existing culverts crossing F.M. 2770 between South Austin Street and the fire station. Flood waters back up behind these culverts and continue to rise until F.M. 2770 is overtopped at a low point near Bartons Crossing (See Figure 1.1). When the flood waters begin to overtop F.M. 2770 the fire station is inundated by approximately 0.5 feet of water.

Project Description:

The proposed drainage improvement includes channelization that will redirect floodwaters upstream of the fire station underneath F.M. 2770 and discharge into Onion Creek (See Figure 1.2). The proposed channel is approximately 110 feet wide, 6 feet in depth, and 1100 feet long, with a cost of approximately \$900,000 (see Table 1.1). This channel is intended to intercept floodwaters upstream of the fire station and direct them west under F.M. 2770 in three (3) 10' span by 8' rise reinforced concrete box culverts.

Summary:

The drainage improvements proposed by Halff will:

- Reduce the frequency of flooding to the fire station
- Reduces 100-year flow from 2,600 cfs to 260 cfs in the main channel
- Eliminates overtopping of F.M. 2770 during the 100-year (1% annual chance) flood
- Reduce the severity and frequency of flooding downstream of the fire station
- Provide easier mobilization of emergency vehicles from the fire station during a flood event
- Require easement acquisition to construct the channel from F.M. 2770 to Onion Creek
- May disrupt traffic along F.M. 2770 during the construction of the culverts servicing the bypass channel
- Estimated project cost of \$900,000.

In-line channelization and culvert modification

Increasing the existing channel conveyance and adding additional culverts underneath F.M. 2770 was also considered. The preliminary conceptual project cost was calculated to be \$780,000 as seen in Table 1.2 (approximately 15% lower than the recommended diversion channelization). However, costs for mitigating the increased downstream flooding and environmental permitting related to channelizing the existing creek are not included in the conceptual cost opinion, and these factors will likely drive the cost of in-line channelization higher than the proposed channel modification.

Table 1.2: Buda Fire Station "In-line" Channelization Alternative Opinion of Probable Cost

Buda Fire Station Alternative: "In-Line" Channelization					
TxDOT ITEM NO.	DESCRIPTION OF ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	COST
502-2001	Barricades, Signs, and Traffic Handling	2	MO	\$ 6,000.00	\$ 12,000.00
110-2002	Channel Excavation	7,000	CY	\$ 4.00	\$ 28,000.00
	Soil Transport and Disposal	6,900	CY	\$ 4.00	\$ 27,600.00
400-2006	Cut and Restore Paving	800	SY	\$ 50.00	\$ 40,000.00
462-2032	Concrete Box Culvert (10 ft X 8 ft)	390	LF	\$ 850.00	\$ 331,500.00
466-2024	Wingwall	2	EA	\$ 25,000.00	\$ 50,000.00
160-2003	Stockpiling and Placing Topsoil (4")	8,500	SY	\$ 0.50	\$ 4,250.00
5941-2014	Hydromulch Seeding	8,500	SY	\$ 1.00	\$ 8,500.00
169-2001	Soil Retention Blankets	1,800	SY	\$ 1.00	\$ 1,800.00
500-2001	Mobilization (10%)	1	LS	\$ 50,365.00	\$ 50,365.00
	Engineering Fees (10%)	1	LS	\$ 55,401.50	\$ 55,401.50
	SUBTOTAL				\$ 597,416.50
	30% CONTINGENCY				\$ 179,224.95
	TOTAL				\$ 776,641.45
REFERENCE: Prices based on TXDoT Statewide Construction Average Low Bid Unit Price					
NOTE: Excludes cost of land acquisition, environmental permitting, and the protection, relocation, and reconstruction of utilities					
Since the design professional has no control over the cost of labor, materials, or equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions, his opinions of probable cost provided for herein are to be made on the basis of his experience and qualifications. These opinions represent his best judgment as a design professional familiar with the construction industry. However, the design professional can not and does not guarantee that proposals, bids, or construction cost will not vary from the opinions of probable cost he has prepared. If the owner wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.					

The non-structural solution suggested for the Buda fire station is to rebuild the station just to the southeast after adding enough fill to remove the new station from the floodplain. Further analysis will be required to ensure that adding fill to the proposed location will not cause negative downstream impacts. A probable cost estimate for adding fill and rebuilding the fire station is approximately \$1,000,000. The benefit-cost ratio will be on the same order as the other alternatives.

Figure 1.1

Floodplain Exhibit

Buda Fire Station #1
Alternatives Analysis



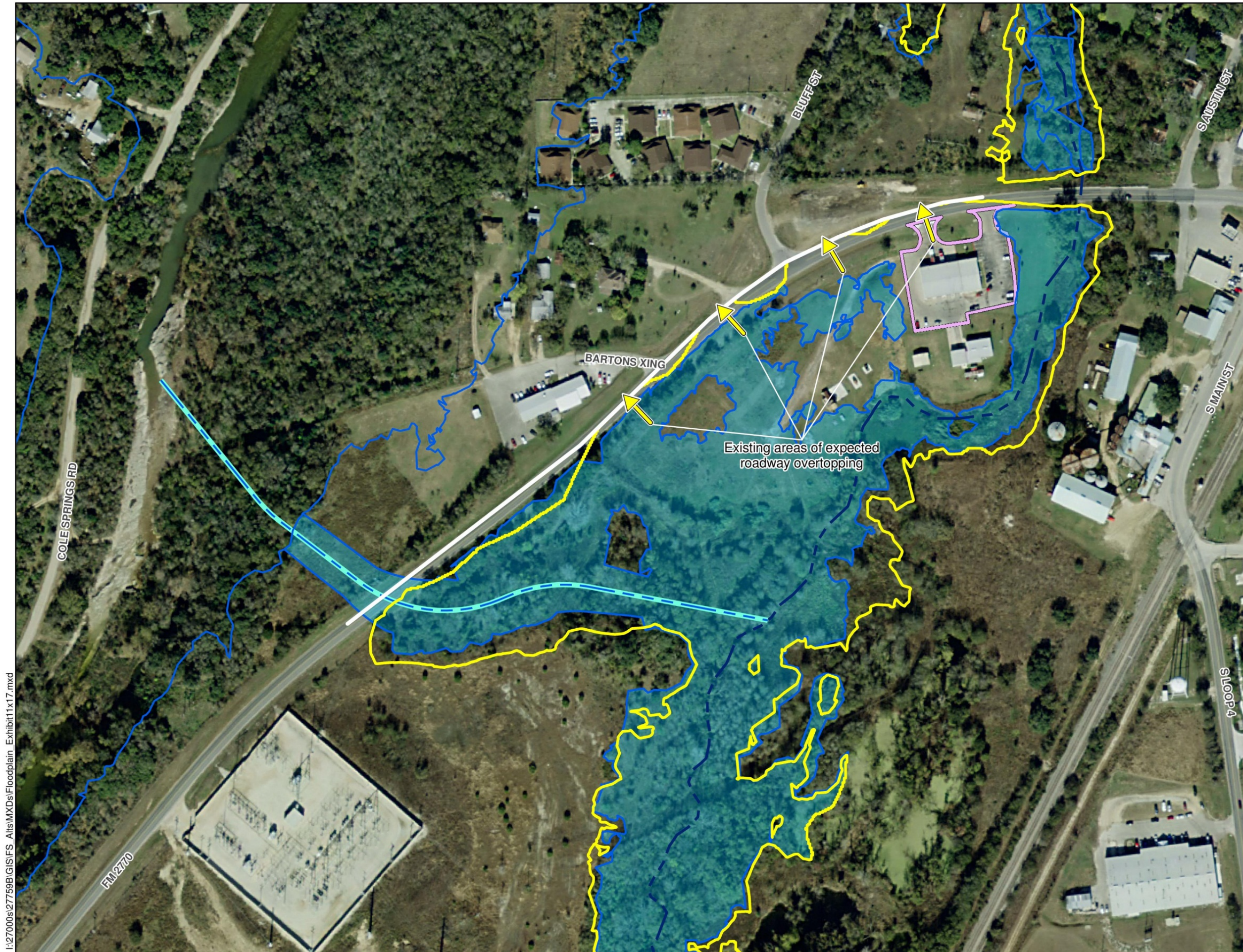
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0 100 200 300 400
Feet

Legend

- Limits of Study
- Existing 100 Year Floodplain
- Onion Creek 100 Year Floodplain
- Proposed Diversion
- Tributary Centerline
- Proposed 100 Year Floodplain
- Fire Station



Diversion Centerline Alignment									
NUMBER	LENGTH	RADIUS	DELTA	LINE/CHORD BEARING	CHORD DISTANCE	START STATION	END STATION	START POINT	END POINT
L1	317.55'			S38° 58' 21"E		0+00.00	3+17.55	(2331587.56,13941308.55)	(2331787.28,13941061.67)
C1	72.07'	300.00'	13°45'52"	S45° 51' 17"E	71.90'	3+17.55	3+89.62	(2331787.28,13941061.67)	(2331838.87,13941011.60)
L2	207.35'			S52° 44' 12"E		3+89.62	5+96.96	(2331838.87,13941011.60)	(2332003.89,13940886.05)
C2	313.53'	300.00'	59°52'45"	S82° 40' 35"E	299.45'	5+96.96	9+10.49	(2332003.89,13940886.05)	(2332300.90,13940847.88)
L3	21.49'			N67° 23' 02"E		9+10.49	9+31.99	(2332300.90,13940847.88)	(2332320.74,13940856.15)
C3	173.85'	300.00'	33°12'10"	N83° 59' 07"E	171.43'	9+31.99	11+05.84	(2332320.74,13940856.15)	(2332491.22,13940874.11)
L4	380.15'			S79° 24' 48"E		11+05.84	14+85.98	(2332491.22,13940874.11)	(2332864.90,13940804.27)

LEGEND

PROPOSED DIVERSION (dashed line with arrows)

EXISTING CONVEYANCE (solid line)

EXISTING MAJOR CONTOUR (dashed line with '700')

EXISTING MINOR CONTOUR (dotted line)

PROPOSED MAJOR CONTOUR (solid line with '700')

PROPOSED MINOR CONTOUR (dotted line with '700')



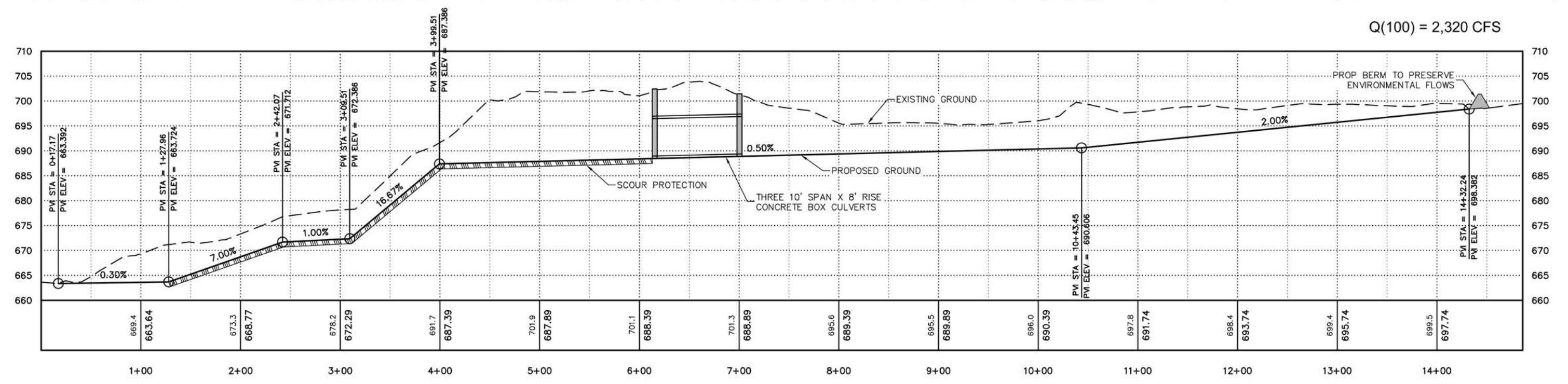
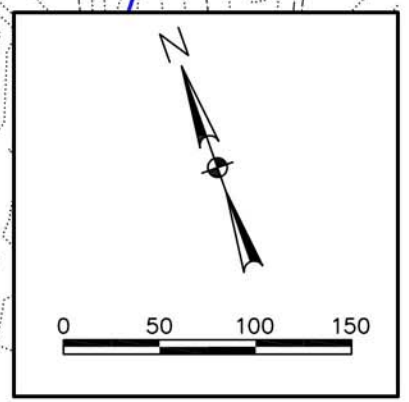
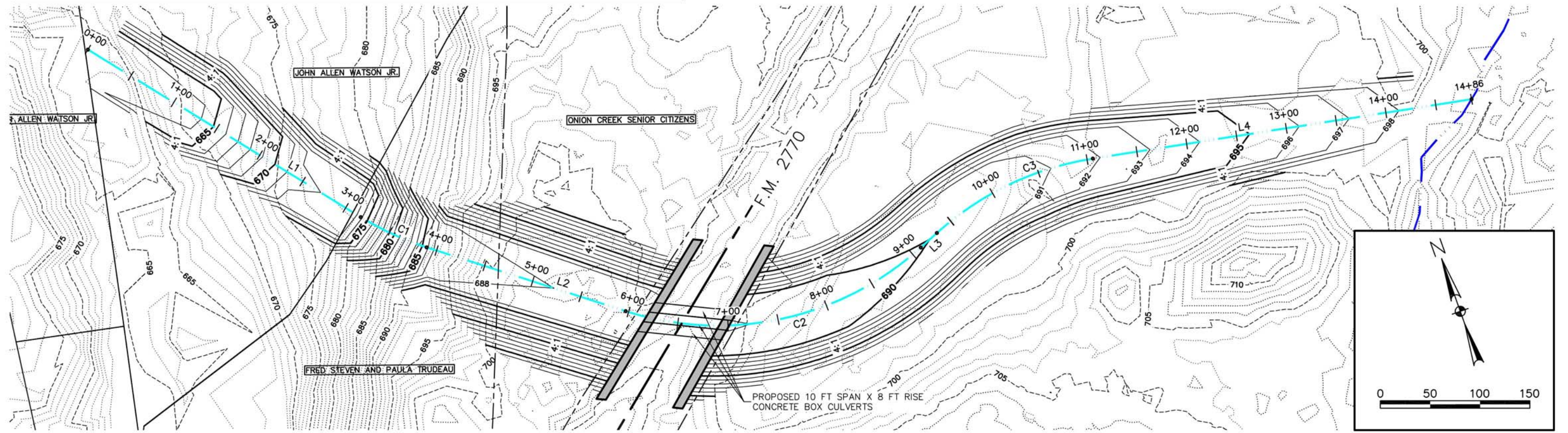
Figure 1.2
 Conceptual Grading Exhibit
 Buda Fire Station #1
 Alternatives Analysis

Date Generated: August 23, 2012
 AVO: 27759



EARTHWORK

CUT	FILL	NET (WASTE)
30,900 CY	100 CY	30,800 CY



Q(100) = 2,320 CFS

Project Area 2

Walnut Spring Creek

Dripping Springs Flooding Alternatives Analysis

Background:

The City of Dripping Springs and the United States Army Corps of Engineers (USACE) – Fort Worth District requested Halff Associates to perform an alternatives analysis to alleviate flooding caused by Walnut Spring near the intersection of R.M. 12 and U.S. 290. The capacity of the existing drainage infrastructure is sufficient to convey approximately the 10-year (10 percent annual chance) event without significant overtopping and property damage.

Alternatives Analysis:

Three structural and one non structural alternative were evaluated to alleviate the flooding in Dripping Springs. These alternatives are listed below.

1) Removal of East Mercer Street from R.M. 12 to U.S. 290

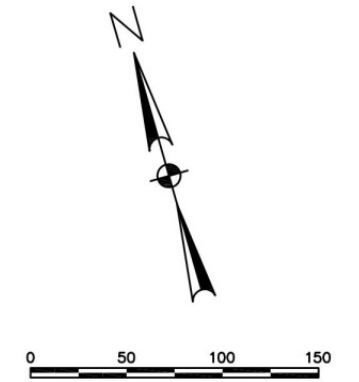
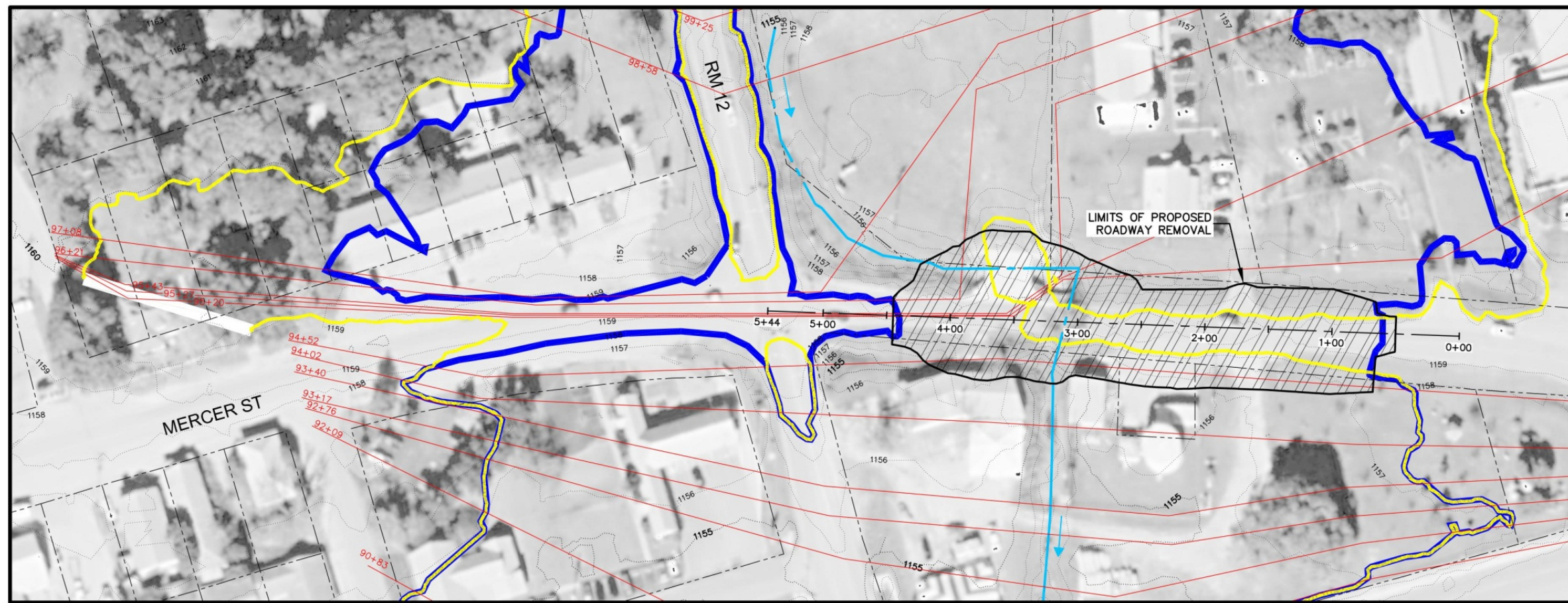
Project Description:

Examination of the hydraulic characteristics of Walnut Spring Creek shows that Mercer Street blocks the conveyance of the 100 year event downstream. The removal of Mercer to the extents shown in Figures 2.1 and 2.2 was modeled to evaluate any impacts on the floodplain, and a summary of impacts is shown below.

Summary:

The proposed removal of East Mercer Street from R.M. 12 to U.S. 290 will:

- Remove 0 structures from the 100 year floodplain.
- Reduce the severity and frequency of flooding upstream of Mercer Street but have little or no impact downstream of Mercer Street, as shown in Figures 2.1 and 2.2.
- Reduce vehicular access to structures located in the vicinity.
- Increase the amount of right-turning traffic from Eastbound U.S. 290 onto R.M. 12 due to the inability for Mercer Street to accommodate through traffic, possibly impeding traffic on Eastbound U.S. 290.
- Have an estimated project cost of \$90,000 (see Table 2.1).



LEGEND

- 1110 EXISTING CONTOUR
- PROPOSED 100 YEAR FLOODPLAIN
- EXISTING 100 YEAR FLOODPLAIN
- 84+02 HEC-RAS CROSS SECTION

EARTHWORK

CUT	FILL	NET (WASTE)
2,300 CY	100 CY	2,200 CY

HEC-RAS OUTPUT

River Sta	Existing Conditions		Post Project		Decrease (ft)
	Q Total (cfs)	W.S. Elev (ft)	Q Total (cfs)	W.S. Elev (ft)	
11552	1692.01	1175.15	1692.01	1175.15	0.00
11431	1692.01	1174.17	1692.01	1174.13	0.04
11367	1692.01	1172.77	1692.01	1172.92	-0.15
11084	1692.01	1169.01	1692.01	1168.78	0.23
10648	1692.01	1162.00	1692.01	1162.21	-0.21
10063	1692.01	1161.12	1692.01	1159.75	1.37
9981	1692.01	1161.10	1692.01	1159.63	1.47
9925	1692.01	1161.10	1692.01	1159.63	1.47
9858	1692.01	1161.09	1692.01	1159.54	1.55
9708	1692.01	1161.07	1692.01	1159.35	1.72
9621	1692.01	1161.06	1692.01	1158.72	2.34
9543	1692.01	1161.05	1692.01	1158.15	2.90
9527	1692.01	1161.03	1692.01	1157.96	3.07
9520	1692.01	1161.04	1692.01	1157.94	3.10
9452	1692.01	1158.50	1692.01	1157.74	0.76
9402	1692.01	1157.36	1692.01	1157.36	0.00
9340	1692.01	1157.10	1692.01	1157.10	0.00
9317	1692.01	1157.09	1692.01	1157.09	0.00
9276	1692.01	1156.87	1692.01	1156.87	0.00
9209	1692.01	1155.96	1692.01	1155.96	0.00
9083	1692.01	1155.65	1692.01	1155.65	0.00
8929	1645.53	1154.24	1645.53	1154.24	0.00
8830	1611.13	1153.52	1611.13	1153.52	0.00
8728	1607.40	1152.91	1607.40	1152.91	0.00
8502	1607.40	1151.30	1607.40	1151.30	0.00
8494	1607.40	1151.32	1607.40	1151.32	0.00
8470	1607.40	1151.36	1607.40	1151.36	0.00
8402	1607.40	1149.17	1607.40	1149.17	0.00
8158	1607.40	1144.36	1607.40	1144.36	0.00
7910	1607.40	1135.65	1607.40	1135.65	0.00
7677	1607.40	1129.14	1607.40	1129.14	0.00

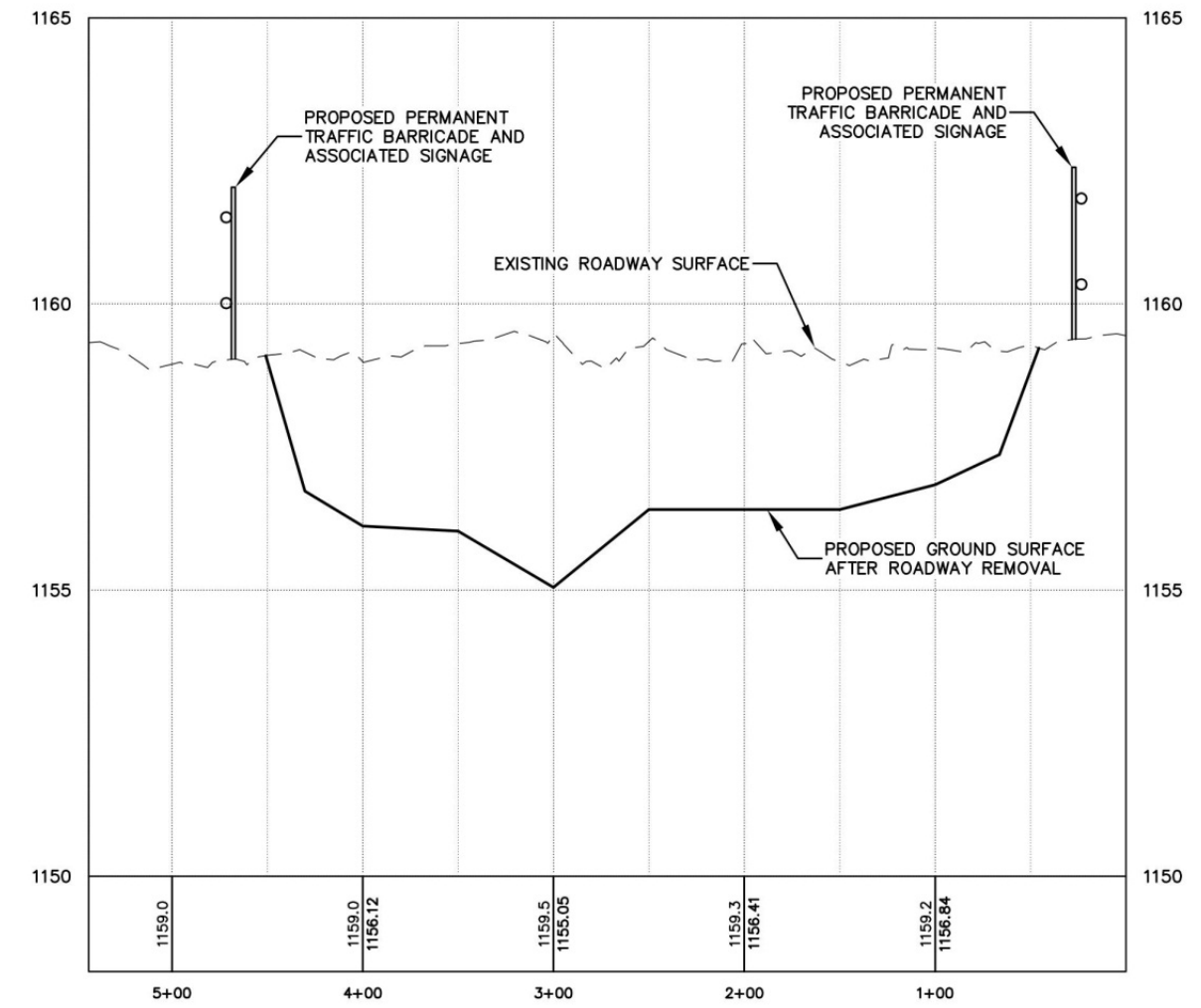
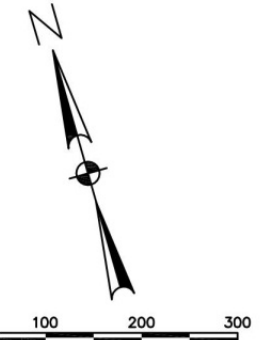
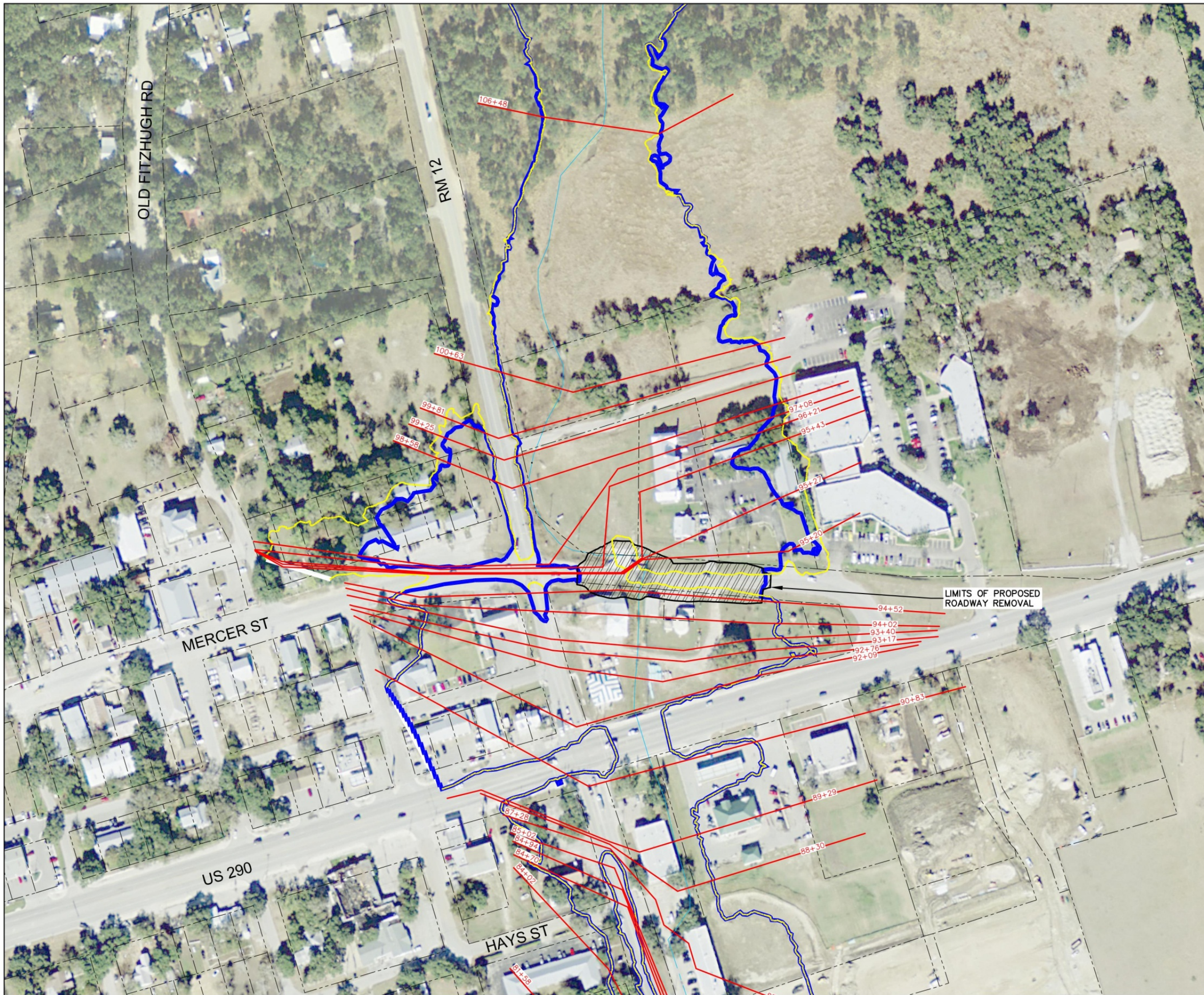


Figure 2.1
Conceptual Mercer Street
Removal Analysis
 Walnut Spring
 City of Dripping Springs
 Alternatives Analysis

Date Generated: September 5, 2012
 AVO: 27759





LEGEND

84+02	HEC-RAS CROSS SECTION
	PROPOSED 100 YEAR FLOODPLAIN
	EXISTING 100 YEAR FLOODPLAIN

HEC-RAS OUTPUT

River Sta	Existing Conditions		Post Project		Decrease (ft)
	100 year	100 year	100 year	100 year	
	Q Total (cfs)	W.S. Elev (ft)	Q Total (cfs)	W.S. Elev (ft)	
11552	1692.01	1175.15	1692.01	1175.15	0.00
11431	1692.01	1174.17	1692.01	1174.13	0.04
11367	1692.01	1172.77	1692.01	1172.92	-0.15
11084	1692.01	1169.01	1692.01	1168.78	0.23
10648	1692.01	1162.00	1692.01	1162.21	-0.21
10063	1692.01	1161.12	1692.01	1159.75	1.37
9981	1692.01	1161.10	1692.01	1159.63	1.47
9925	1692.01	1161.10	1692.01	1159.63	1.47
9858	1692.01	1161.09	1692.01	1159.54	1.55
9708	1692.01	1161.07	1692.01	1159.35	1.72
9621	1692.01	1161.06	1692.01	1158.72	2.34
9543	1692.01	1161.05	1692.01	1158.15	2.90
9527	1692.01	1161.03	1692.01	1157.96	3.07
9520	1692.01	1161.04	1692.01	1157.94	3.10
9452	1692.01	1158.50	1692.01	1157.74	0.76
9402	1692.01	1157.36	1692.01	1157.36	0.00
9340	1692.01	1157.10	1692.01	1157.10	0.00
9317	1692.01	1157.09	1692.01	1157.09	0.00
9276	1692.01	1156.87	1692.01	1156.87	0.00
9209	1692.01	1155.96	1692.01	1155.96	0.00
9083	1692.01	1155.65	1692.01	1155.65	0.00
8929	1645.53	1154.24	1645.53	1154.24	0.00
8830	1611.13	1153.52	1611.13	1153.52	0.00
8728	1607.40	1152.91	1607.40	1152.91	0.00
8502	1607.40	1151.30	1607.40	1151.30	0.00
8494	1607.40	1151.32	1607.40	1151.32	0.00
8470	1607.40	1151.36	1607.40	1151.36	0.00
8402	1607.40	1149.17	1607.40	1149.17	0.00
8158	1607.40	1144.36	1607.40	1144.36	0.00
7910	1607.40	1135.65	1607.40	1135.65	0.00
7677	1607.40	1129.14	1607.40	1129.14	0.00

Figure 2.2
Conceptual Mercer Street
Removal Analysis
 Walnut Spring
 City of Dripping Springs
 Alternatives Analysis

Date Generated: September 5, 2012
 AVO: 27759



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N:30.194°, W:98.085°

Table 2.1: Walnut Spring Creek Mercer Street Removal Alternative Opinion of Probable Cost

Walnut Spring Alternative Analysis: Mercer Street Demolition					
TxDOT ITEM NO.	DESCRIPTION OF ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	COST
502-2001	Barricades, Signs, and Traffic Handling	2	MO	\$ 6,000.00	\$ 12,000.00
105-2008	Removing Stab. Base and Asphalt Pavment	1,200	SY	\$ 10.00	\$ 12,000.00
110-2002	Excavation	2,300	CY	\$ 4.00	\$ 9,200.00
	Soil Transport and Disposal	2,200	CY	\$ 4.00	\$ 8,800.00
514-2016	Permanent Traffic Barrier	50	LF	\$ 100.00	\$ 5,000.00
160-2003	Furnishing and Placing Topsoil (4")	3,800	SY	\$ 0.50	\$ 1,900.00
5941-2014	Hydromulch Seeding	3,800	SY	\$ 1.00	\$ 3,800.00
169-2001	Soil Retention Blankets	3,800	SY	\$ 1.00	\$ 3,800.00
500-2001	Mobilization (10%)	1	LS	\$ 5,650.00	\$ 5,650.00
	Engineering Fees (10%)	1	LS	\$ 6,215.00	\$ 6,215.00
	SUBTOTAL				\$ 68,365.00
	30% CONTINGENCY				\$ 20,509.50
	TOTAL				\$ 88,874.50
REFERENCE: Prices based on TXDoT Statewide Construction Average Low Bid Unit Price					
NOTE: Excludes cost of land aquisition, environmental permitting, and the protection, relocation, and reconstruction of utilities					
Since the design professional has no control over the cost of labor, materials, or equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions, his opinions of probable cost provided for herein are to be made on the basis of his experience and qualifications. These opinions represent his best judgment as a design professional familiar with the construction industry. However, the design professional can not and does not guarantee that proposals, bids, or construction cost will not vary from the opinions of probable cost he has prepared. If the owner wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.					

2) Detention North (Upstream) of Mercer Street

Project Description:

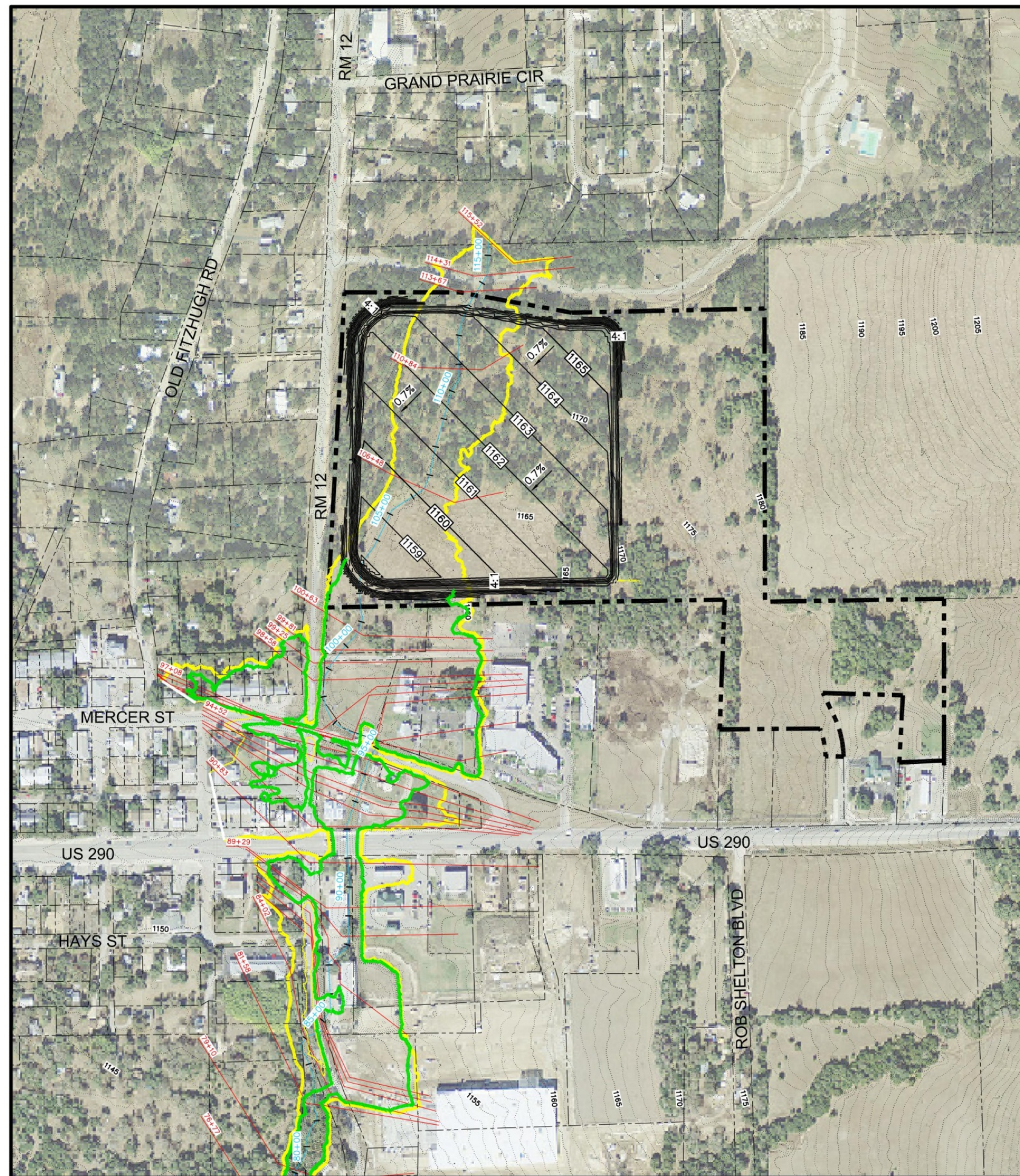
In an effort to more aggressively alleviate flooding through downtown Dripping Springs, a 19 acre detention facility was analyzed. The proposed detention facility is located on a private, undeveloped parcel of land approximately 140 feet north of the intersection of East Mercer and U.S. 290 (see Figure 2.3).

Summary:

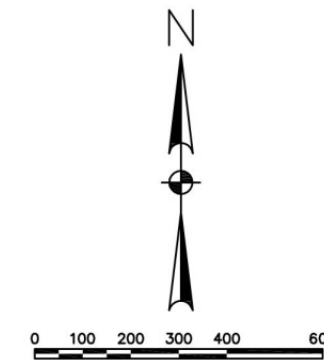
The proposed detention North of Mercer Street will:

- Remove 3 structures from the 100 year floodplain.
- Reduce the 100 year flow through downtown Dripping Springs by 60% (from 1,690 cfs to 680 cfs), reducing the severity and frequency downstream of the detention pond.
- Require the acquisition of land for the construction of the detention pond.
- Impact traffic minimally since the project does not include any roadway modifications.
- Have an estimated project cost of \$2,300,000 (see Table 2.2).

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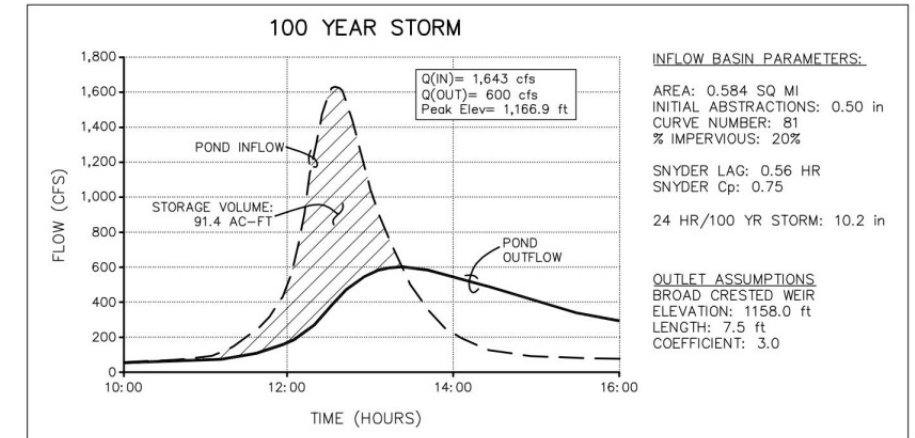
N:30.194', W:98.085'



DETENTION POND VOLUME

Stage (ft)	A _{area} (Ac)	A ₁ +A ₂ (AA) (Ac)	Volume (Ac-ft)	Storage (Ac-ft)
1158	0	0.000	0.000	0.000
1159	0.9193	0.919	0.306	0.306
1160	2.7623	5.275	1.758	2.065
1161	5.5410	12.216	4.072	6.137
1162	9.2358	21.930	7.310	13.447
1163	12.9552	33.130	11.043	24.490
1164	15.8747	43.171	14.390	38.880
1165	17.7828	50.459	16.820	55.700
1166	18.7299	54.763	18.254	73.954
1167	19.0511	56.671	18.890	92.845

$$\text{Volume} = \frac{A_1 + A_2 + (A_1 \cdot A_2)}{3} (\Delta \text{ Elevation})$$



EARTHWORK

CUT	FILL	NET (WASTE)
138,500 CY	7,200 CY	131,300 CY

HEC-RAS OUTPUT

River Sta	Existing Conditions		Post Detention		Decrease (ft)
	Q Total (cfs)	W.S. Elev (ft)	Q Total (cfs)	W.S. Elev (ft)	
10063	1692	1161.12	682	1159.62	1.50
9981	1692	1161.10	682	1159.60	1.50
9925	1692	1161.10	682	1159.58	1.52
9858	1692	1161.09	682	1159.56	1.53
9708	1692	1161.07	682	1159.54	1.53
9621	1692	1161.06	682	1159.52	1.54
9543	1692	1161.05	682	1159.47	1.58
9527	1692	1161.03	682	1158.94	2.09
9520	1692	1161.04	682	1158.92	2.12
9452	1692	1158.50	682	1156.71	1.79
9402	1692	1157.36	682	1156.29	1.07
9340	1692	1157.10	682	1156.16	0.94
9317	1692	1157.09	682	1156.06	1.03
9276	1692	1156.87	682	1155.85	1.02
9209	1692	1155.96	682	1154.70	1.26
9083	1692	1155.65	682	1154.23	1.42
9082	Lat Struct		Lat Struct		
8929	1646	1154.24	682	1152.98	1.26
8830	1611	1153.52	682	1152.51	1.01
8728	1607	1152.91	682	1152.23	0.68
8502	1607	1151.30	682	1150.32	0.98
8494	1607	1151.32	682	1150.35	0.97
8470	1607	1151.36	682	1150.37	0.99
8402	1607	1149.17	682	1147.84	1.33
8158	1607	1144.36	682	1142.65	1.71
7910	1607	1135.65	682	1132.29	3.36
7677	1607	1129.14	682	1128.95	0.19

LEGEND

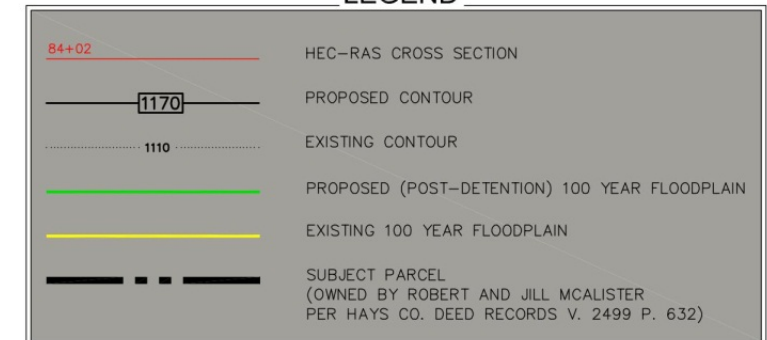


Figure 2.3
Conceptual Detention Analysis
 Walnut Spring
 City of Dripping Springs
 Alternatives Analysis

Date Generated: August 28, 2012
 AVO: 27759



Table 2.2: Walnut Spring Creek Upstream Detention Alternative Opinion of Probable Cost

Walnut Spring Alternative Analysis: Upstream Detention Pond					
TxDOT ITEM NO.	DESCRIPTION OF ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	COST
502-2001	Barricades, Signs, and Traffic Handling	2	MO	\$ 6,000.00	\$ 12,000.00
2022-2003	Site Preparation and Restoration	1	EA	\$ 20,000.00	\$ 20,000.00
752-2024	Tree Removal (18"-24" Dia)	100	EA	\$ 850.00	\$ 85,000.00
110-2002	Excavation	140,000	CY	\$ 4.00	\$ 560,000.00
	Soil Transport and Disposal	135,000	CY	\$ 4.00	\$ 540,000.00
420-2011	Class 'C' Concrete Retaining Wall	140	CY	\$ 700.00	\$ 98,000.00
432-2066	Class 'B' Concrete Rip-Rap	3	CY	\$ 350.00	\$ 1,050.00
160-2003	Stockpiling and Placing Topsoil (4")	96,800	SY	\$ 0.50	\$ 48,400.00
5941-2014	Hydromulch Seeding	96,800	SY	\$ 1.00	\$ 96,800.00
169-2001	Soil Retention Blankets	10,000	SY	\$ 1.00	\$ 10,000.00
500-2001	Mobilization (10%)	1	LS	\$ 147,125.00	\$ 147,125.00
	Engineering Fees (10%)	1	LS	\$ 161,837.50	\$ 161,837.50
	SUBTOTAL				\$ 1,780,212.50
	30% CONTINGENCY				\$ 534,063.75
	TOTAL				\$ 2,314,276.25
REFERENCE: Prices based on TXDOT Stawew ide Construction Average Low Bid Unit Price					
NOTE: Excludes cost of land aquisition, environmental permitting, and the protection, relocation, and reconstruction of utilities					
<p>Since the design professional has no control over the cost of labor, materials, or equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions, his opinions of probable cost provided for herein are to be made on the basis of his experience and qualifications. These opinions represent his best judgment as a design professional familiar w ith the construction industry. How ever, the design professional can not and does not guarantee that proposals, bids, or construction cost w ill not vary from the opinions of probable cost he has prepared. If the ow ner wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.</p>					

3) Bypass Culvert Under R.M. 12

Project Description:

The most beneficial but highest cost alternative analyzed was the diversion of flows from Walnut Springs Creek to culverts that extend from approximately 1,000 feet north of U.S. 290 to approximately 1,060 feet south of U.S. 290, discharging back into Walnut Spring Creek (see Figures 2.4 and 2.5). The project would also include a 1,000 foot berm located on the north side of the culverts to funnel floodwaters into the culverts.

Summary:

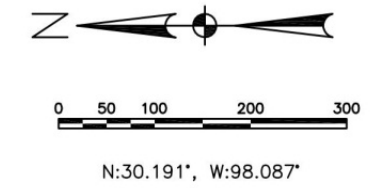
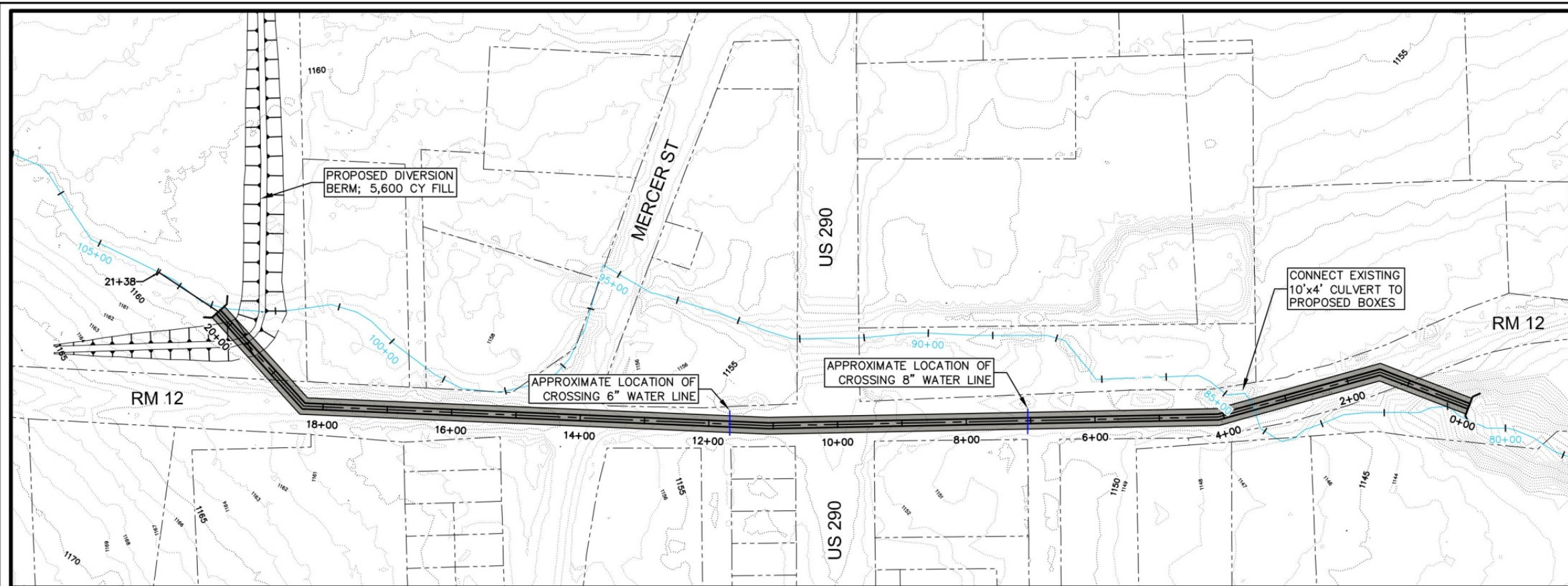
The proposed bypass culvert under R.M. 12 will:

- Remove 15 structures from the 100 year floodplain.
- Remove 22.6 acres along the culvert from the 100 year floodplain.
- Divert the 100-year flow to the culvert, reducing the 100-year flow through downtown Dripping Springs to that produced from local drainage.

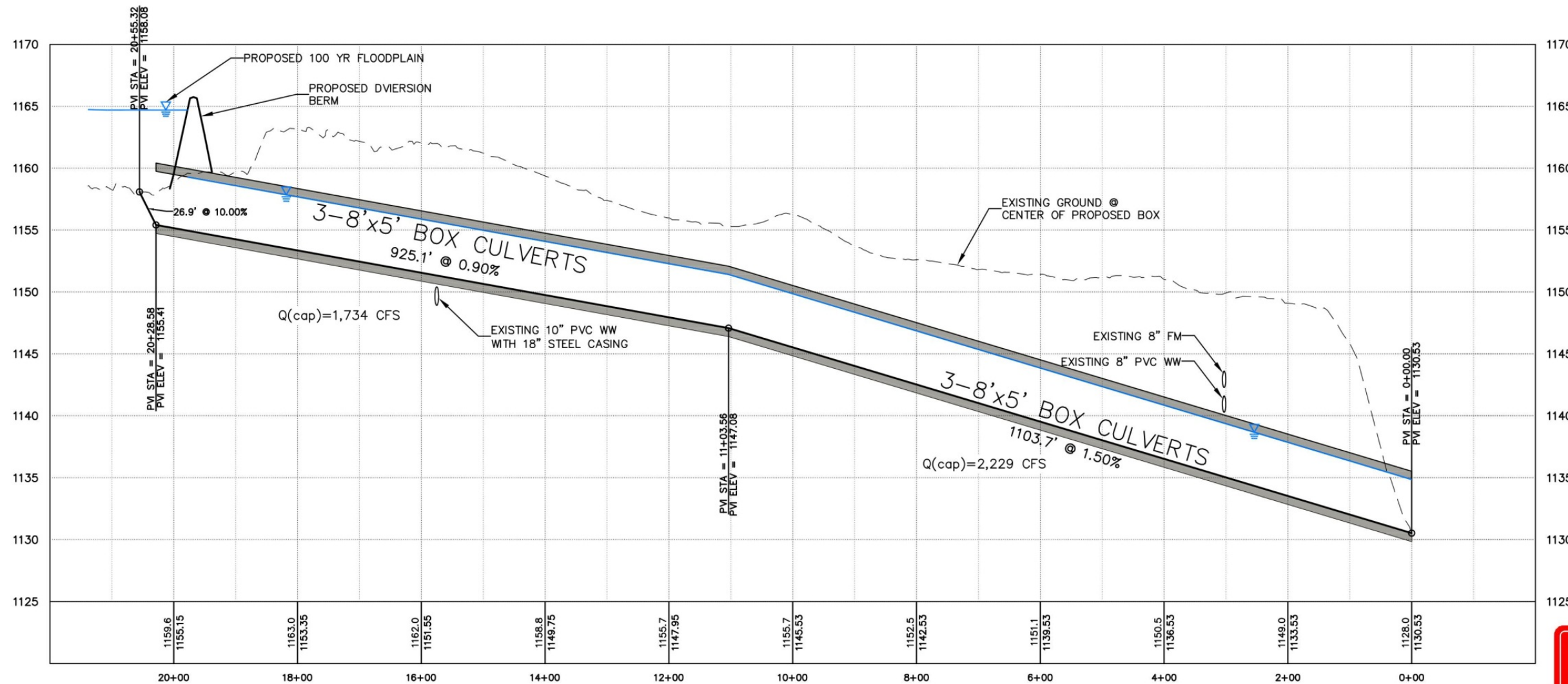
- Require easement acquisition due to the inundation of approximately 3.5 acres north of the proposed berm.
- Disrupt traffic due to the placement of the culvert underneath R.M. 12 for approximately 1,700 feet, including the crossing of U.S. 290.
- Have an estimated project cost of \$3,700,000 (See Table 2.3).

Table 2.3: Walnut Spring Creek RR 12 Bypass Culvert Alternative Opinion of Probable Cost

Walnut Spring Alternative Analysis: RR 12 Bypass Culvert					
TxDOT ITEM NO.	DESCRIPTION OF ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	COST
502-2001	Barricades, Signs, and Traffic Handling	9	MO	\$ 12,000.00	\$ 108,000.00
400-2006	Cut and Restore Paving	5,700	SY	\$ 40.00	\$ 228,000.00
402-2001	Trench Excavation Protection	2,000	LF	\$ 10.00	\$ 20,000.00
462-2020	Concrete Box Culvert (8 ft X 5 ft)	6,300	LF	\$ 300.00	\$ 1,890,000.00
465-2733	Junction Box	1	EA	\$ 11,000.00	\$ 11,000.00
5946-2159	Sewer Manhole 4' Dia (14'-16' Depth)	1	EA	\$ 7,000.00	\$ 7,000.00
466-2024	Wingwall	2	EA	\$ 25,000.00	\$ 50,000.00
132-2007	Type 'D' Embankment	4,700	CY	\$ 10.00	\$ 47,000.00
160-2003	Furnishing and Placing Topsoil (4")	600	SY	\$ 0.50	\$ 300.00
5941-2014	Hydromulch Seeding	600	SY	\$ 1.00	\$ 600.00
169-2001	Soil Retention Blankets	600	SY	\$ 1.00	\$ 600.00
500-2001	Mobilization (10%)	1	LS	\$ 236,250.00	\$ 236,250.00
	Engineering Fees (10%)	1	LS	\$ 259,875.00	\$ 259,875.00
	SUBTOTAL				\$ 2,858,625.00
	30% CONTINGENCY				\$ 857,587.50
	TOTAL				\$ 3,716,212.50
REFERENCE: Prices based on TxDOT Statewide Construction Average Low Bid Unit Price					
NOTE: Excludes cost of land acquisition, environmental permitting, and the protection, relocation, and reconstruction of utilities					
<p>Since the design professional has no control over the cost of labor, materials, or equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions, his opinions of probable cost provided for herein are to be made on the basis of his experience and qualifications. These opinions represent his best judgment as a design professional familiar with the construction industry. However, the design professional can not and does not guarantee that proposals, bids, or construction cost will not vary from the opinions of probable cost he has prepared. If the owner wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.</p>					



NOTE:
 THE PROPOSED CULVERTS WERE DESIGNED WITH A GRAVITY CAPACITY GREATER THAN THE 100 YEAR DESIGN STORM. THIS IS TO ACCOUNT FOR ANTICIPATED MINOR HYDRAULIC LOSSES. ADDITIONALLY, THE SYSTEM IS INLET CONTROLLED AND REQUIRES AN UPSTREAM BERM TO DEVELOP SUFFICIENT HEAD TO INTERCEPT THE 100 YEAR (1,600 CFS) STORM.



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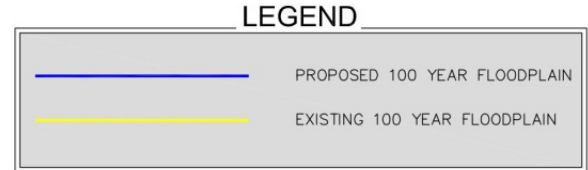
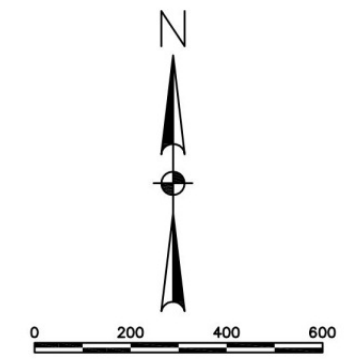
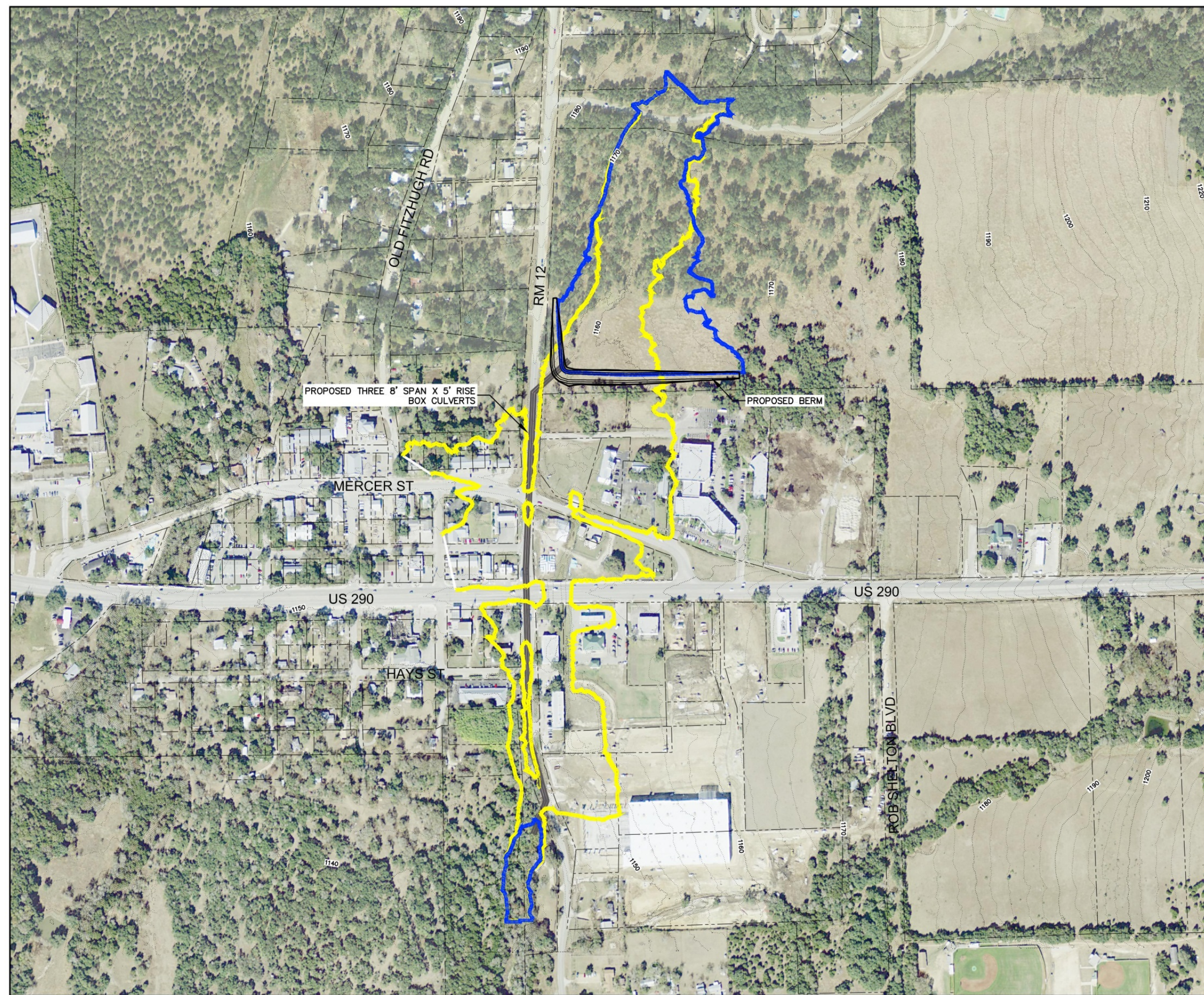


Figure 2.4
Conceptual Bypass Culvert Analysis
 Walnut Spring
 City of Dripping Springs
 Alternatives Analysis

Date Generated: August 28, 2012
 AVO: 27759



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Number of structures/businesses/houses removed from the floodplain = 15

Area of floodplain reclaimed south of the proposed berm = 22.6 acres

Area of additional floodplain due to backwater from proposed berm = 3.5 acres

Figure 2.5
Conceptual Bypass Culvert Analysis
 Walnut Spring
 City of Dripping Springs
 Alternatives Analysis

Date Generated: September 26, 2012
 AVO: 27759



4) Buyout of Structures Upstream of Mercer Street

Project Description:

A buyout option may be feasible for four office buildings along Willow Springs Creek just north of Mercer Street (Figure 2.6). FEMA grants are available to assist communities in buying out frequently flooded structures. Further analysis may be required to determine if the structures indicated are truly at risk of frequent flood damage. A benefit-cost ratio greater than one can be achieved assuming a buyout cost of \$1,000,000, which is equal to approximately 20% over appraised value.

Summary:

The buyout alternative would have the following benefits:

- Remove potentially repetitively flooded structures from floodplain
- Potential for enhancement of downtown Dripping Springs with a park or other recreational opportunity
- Potential for FEMA grant to cost share buyout.
- No disruption of traffic for construction projects



US Army Corps
of Engineers



Hays County Interim Feasibility Study

Key to Features



-  Willow Springs Creek
-  Buyout Structures

Figure 2.6.
Dripping Springs
Buyout Alternative



0 20 40 80 120 160 Feet

1 inch = 80 feet

Project Area 3

Onion Creek

Conceptual Regional Detention Alternatives Analysis

Background:

Hays County and the United States Army Corps of Engineers (USACE) – Fort Worth District requested Halff Associates to perform a conceptual alternatives analysis to alleviate the existing flood hazards in Onion Creek with the use of “regional detention” structures. Please note that this analysis is very conceptual in nature. Although Figures 3.1 and 3.4 depict detention structure in specific locations, the reader should note that the hydrologic and hydraulic analysis consider these to be “black box” structures generally located in the areas depicted. The one structure that is relatively fixed is the most downstream structure at the “Buda Quarry” site. The second structure (at Rattlesnake Creek) was evaluated conceptually to be in the middle of the basin. The third structure west of Dripping Springs was conceptually evaluated to be located in the upper quarter of the basin. Although specific stage-storage relations were developed for the specific identified sites, they could just as easily have been moved upstream or downstream a half mile. These sites were selected simply based on favorable geometry for temporary and longer-term water storage. The scope of this report does not include any evaluation or investigation into any local, State or Federal permitting requirements, nor does it include any evaluation of impacts to residential, commercial or infrastructure. Should this alternatives evaluation meet with a favorable review, then those activities could begin at a later date.

Hydrologic Analysis:

Halff Associates has already prepared a basin wide hydrologic model for Onion Creek. These detention structures were simply added to that model with no other alterations or modifications to the model. Seven alternatives were analyzed representing the effects of each regional detention individually as well as all combinations. A plan and profile is attached for each of the conceptual earthen dams (Figures 3.2-3.4). Again, please note that the evaluated detention site could just as easily be altered upstream or downstream of the site and the drawing would be completely different.

Upper Basin: The hydrologic goal of the upper site (“Dripping Springs”) was to try to disconnect/delay the hydrograph peaks from the rest of the basin. Therefore, the only outlet through the dam was assumed to be one 10x10 box culvert (i.e. no spillway). We know that should this “regional detention” plan receive a favorable review, the PMF would need to be evaluated and some sort of emergency spillway most likely would be needed. Nevertheless, for this flood damage assessment task the focus was on the 100-year event. The assumption was that at the end of the storm event the detention basin would drain out (except for any over excavation to try and generate some long term water supply storage). This single outlet structure at the flowline of the existing streambed would allow normal sediment transport activities to the downstream reaches to remain intact. The inflow and outflow hydrographs at this site for the 100-year event is presented in the right side of the attached graphic. One can see that at this site the peak was drastically reduced and the outlet ran at a fairly constant rate for two days to drain the basin. The table presents the elevation and pool area for this particular site. The maximum pool elevation for the 100-year event is listed along with the approximate size of an “inundation easement” that would be required. The fill volume for this particular dam site is also presented (and would be different if the conceptual location were moved upstream or

downstream). At both dam sites, the volume of over excavation for possible water supply would be much larger than the volume of fill required for dam construction.

Middle Basin: The hydrologic goal of the middle basin (“Rattlesnake”) was again to provide some attenuation of the peak flows generated by the intervening drainage area. The inflow-outflow graph shows that the peak was lowered and delayed about one hour. This structure was assumed to have four 10x10 box culverts through the dam in an effort to let most of the lower events pass thru unobstructed. A spillway was sized to then activate and restrict the larger storm events. Again the 100-year pool elevation, inundation area and fill volume are included.

Lower Basin: As mentioned above, this site was fixed at the existing “Quarry site.” The “dam” was created by cutting a diversion channel from Onion Creek to the quarry site. This side channel was set at an elevation such that the majority of the low flow events would bypass the diversion and continue down Onion Creek. Only the larger flow events passing this site would be diverted and a hydrograph “peak shaving” would occur. After the event the flood storage volume would be released through a single 4x4 box culvert back into Onion Creek. Since this existing quarry site is much deeper than Onion Creek, there will be some stormwater remaining after the event. The inflow-outflow hydrograph reflects that only peak reduction took place with no time shifting. The 100-year pool elevation and inundated acreage is shown along with the excavation volume for the diversion channel

Performance Summary: Figure 3.5 presents five sample hydrographs from the same vantage point of the hydrologic model node west of the City of Buda. The red hydrograph shows “existing conditions” from the current hydrologic model with no dams installed (80,000 cfs peak). The three blue lines depict the effect at the City of Buda if any of the three sites were installed independently. Note the Upper Basin (Dripping Springs) hydrograph reduces the peak the most and it occurs earlier than the existing peak since the upper portion of the watershed is effectively disconnected from the rest of the then “smaller” and faster basin. The Middle Basin (Rattlesnake) hydrograph reduces the peak the least of the three individual basins but does the best at shifting the peak time. The Lower Basin (Quarry) reduces the peak flow rate almost as much as the Upper Basin but essentially does not shift the peak time. The final hydrograph is green and shows the combination of all three basins working together. It is interesting that as the three outflow hydrographs then work their way down the watershed and combine with each other that a double peaked hydrograph is generated. Please note that we have added a notation on the vertical “Flow (cfs)” axis that depicts the 25-year flow, the 50-year flow and the 100-year flow. The peak of the green “All Three” regional detention basins for the 100-year event is reduced from the current 80,000 cfs to a new “existing conditions” event of 52,000 cfs which is between the current 25-year and the 50-year event.

Hydraulic Analysis:

Halff Associates has created a hydraulic model for the Onion Creek watershed. At the “evaluation location” west of Buda, a 100-year flow reduction from 80,000 cfs to 52,000 cfs reduces the water surface elevation approximately 4 to 5 feet. A set of eight standard profiles (2, 5, 10, 25, 50, 100, 250, and 500-yr) was created for use in a simplified cost-benefit analysis of all seven alternatives. Should one of the analyzed alternatives meet with a favorable review then a more comprehensive evaluation of all the benefits along the entire Onion Creek corridor would take place that would include damage reduction downstream within Travis County as well as any other perceived benefits of the regional detention ponds.

Long-term Water Supply Opportunities:

The focus of this alternative analysis was on flood control and the temporary storage of stormwater. The fact that detention dams were involved leads to the possibility of over excavating the invert of the dam and thereby creating a long-term pool of stormwater that would not be evacuated after the storm. This pool then could have uses in various water supply scenarios in the region. A February 2011 report titled "Water and Wastewater Facilities Plan for the portion of Hays County, Texas, West of the IH-35 Corridor" included predictions of water deficits as follows (pp 4-12):

"...water supply deficits are indicated by the Region K planners for:

- Dripping Springs WSC - deficit by 2040 and reaching 366 ac-ft/yr by the year 2060;
- City of Dripping Springs – deficit in 2010 and reaching 3,230 ac-ft/yr by 2060;
- Hill Country WSC – no deficit;
- Cimarron Park Water Company – deficit in 2010 and reaching 629 ac-ft/yr by the year 2060;
- Mountain City - deficit in 2010 and reaching 22 ac-ft/yr by the year 2060; and
- County-Other – deficit by 2020 and reaching 6,482 ac-ft/yr by the year 2060."

As stated above, the main focus of this alternative analysis was on flood control benefits. Nevertheless, a very rough "water balance" was prepared to examine an approximate volume of long-term water supply for an "average year" of rainfall and evaporation. It should be noted that this exercise simply looked at the volume of water generated by the watershed and accounted for the losses in the pool due to evaporation. The size of each water supply pool was estimated to fit within the confines of the "Upper Basin" or "Middle Basin" detention structures mentioned above. The size of the "Lower Basin" structure at the existing quarry is already generally set. Should the Upper or Middle locations be altered, then this estimation of long-term storage would also need to be altered. No attempt was made to explore any of the water rights issues or to perform a more robust "daily reservoir simulation" using an extended drought scenario. In an "average year" (33 inches of rain) it appears that a 5,000 AF water supply pool could be kept full in the Upper Basin. The Middle Basin could easily keep a 3,000 AF pool filled (the geometry of this reach is much narrower than in the Upper Basin so the pool volume is less). In a "drought year" with an assumed 20 inches of rainfall, the Upper Basin pool was about half the volume of the average year, but the Middle Basin could still support the average pool volume. In both scenarios there was enough "bypass flow" to supply the Lower Basin at the quarry. However, before any of these pool volumes are finalized it is highly recommended that additional discussions and investigations with all the stakeholder agencies and citizens be conducted to fully understand the unexplored facets of this water supply issue.

Project Description:

The proposed drainage improvements include the creation of earthen dams and outlet structures. Again it cannot be stressed enough that this exercise is very conceptual with generic "black box" storage-discharge structures placed at three general locations in the basin. Optimizing the location of the Middle Basin and Upper Basin could result in different cost figures than the ones presented herein. Again, the scope of this exercise did not focus on any of the local, State or Federal permitting requirements to determine if these sites are optimal at minimizing impacts. The cost of a flood control structure in the Upper Basin ("Dripping Springs") could be \$9,500,000. The Middle Basin ("Rattlesnake Creek") could cost \$5,700,000. The

Lower Basin (“Buda Quarry”) could cost \$5,400,000. Each site would also need to acquire inundation easements.

Benefits:

The drainage improvements proposed by Halff will:

- Reduce the frequency of flooding at the City of Buda and is expected to generate similar benefits along the entire Onion Creek.
- Reduce the severity and frequency of flooding downstream of the fire station.
- Provide an opportunity for long-term water supply structures.
- Will not interrupt the natural sediment transport along the corridor.
- Possible long term water supply.
- Possible recreation opportunities.

Table 3.1: Upper Basin Detention Structure (“Dripping Springs”) Opinion of Probable Cost

Onion Creek Regional Detention Structures: Upper Basin ("Dripping Springs")					
TxDOT ITEM NO.	DESCRIPTION OF ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	COST
502-2001	Barricades, Signs, and Traffic Handling	6	MO	\$ 6,000.00	\$ 36,000
2022-2003	Site Preparation and Restoration	1	EA	\$ 30,000.00	\$ 30,000
752-2024	Tree Removal (18"-24" Dia)	50	EA	\$ 850.00	\$ 42,500
110-2002	Channel Excavation	483,000	CY	\$ 5.00	\$ 2,415,000
132-2002	Embankment (density-Type A)	483,000	CY	\$ 5.00	\$ 2,415,000
462-2034	Concrete Box Culvert (10 ft X 10 ft)	650	LF	\$ 950.00	\$ 617,500
466-2203	Headwall - Special	1	EA	\$ 20,000.00	\$ 20,000
466-2204	Wingwall - Special (energy dissipation structure)	1	EA	\$ 60,000.00	\$ 60,000
160-2003	Stockpiling and Placing Topsoil (4")	66,667	SY	\$ 3.00	\$ 200,000
5941-2014	Hydromulch Seeding	66,667	SY	\$ 2.00	\$ 133,333
169-2001	Soil Retention Blankets	16,667	SY	\$ 6.00	\$ 100,000
500-2001	Mobilization (10%)	1	LS	\$ 606,933.33	\$ 606,933
	Engineering Fees (10%)	1	LS	\$ 656,776.67	\$ 656,777
	SUBTOTAL				\$ 7,333,043
	30% CONTINGENCY				\$ 2,199,913
	TOTAL				\$ 9,532,956
	Inundation Easements	420	AC	\$ 15,000	\$ 6,300,000
REFERENCE: Prices based on TxDOT Statewide Construction Average Low Bid Unit Price					
NOTE: Excludes cost of land acquisition, environmental permitting, and the protection, relocation, and reconstruction of utilities					
Since the design professional has no control over the cost of labor, materials, or equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions, his opinions of probable cost provided for herein are to be made on the basis of his experience and qualifications. These opinions represent his best judgment as a design professional familiar with the construction industry. However, the design professional can not and does not guarantee that proposals, bids, or construction cost will not vary from the opinions of probable cost he has prepared. If the owner wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.					

Table 3.2: Middle Basin Detention Structure ("Rattlesnake") Opinion of Probable Cost

Onion Creek Regional Detention Structures: Middle Basin ("Rattlesnake")					
TxDOT ITEM NO.	DESCRIPTION OF ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	COST
502-2001	Barricades, Signs, and Traffic Handling	6	MO	\$ 6,000.00	\$ 36,000
2022-2003	Site Preparation and Restoration	1	EA	\$ 30,000.00	\$ 30,000
752-2024	Tree Removal (18"-24" Dia)	50	EA	\$ 850.00	\$ 42,500
110-2002	Channel Excavation	135,000	CY	\$ 5.00	\$ 675,000
132-2002	Embankment (density-Type A)	135,000	CY	\$ 5.00	\$ 675,000
462-2034	Concrete Box Culvert (10 ft X 10 ft)	2,000	LF	\$ 950.00	\$ 1,900,000
466-2203	Headwall - Special	1	EA	\$ 20,000.00	\$ 20,000
466-2204	Wingwall - Special (energy dissipation structure)	1	EA	\$ 80,000.00	\$ 80,000
160-2003	Stockpiling and Placing Topsoil (4")	23,333	SY	\$ 3.00	\$ 70,000
5941-2014	Hydromulch Seeding	23,333	SY	\$ 2.00	\$ 46,667
169-2001	Soil Retention Blankets	5,833	SY	\$ 6.00	\$ 35,000
500-2001	Mobilization (10%)	1	LS	\$ 361,016.67	\$ 361,017
	Engineering Fees (10%)	1	LS	\$ 386,268.33	\$ 386,268
	SUBTOTAL				\$ 4,357,452
	30% CONTINGENCY				\$ 1,307,236
	TOTAL				\$ 5,664,687
	Inundation Easements	200	AC	\$ 15,000	\$ 3,000,000
REFERENCE: Prices based on TXDOT Statewide Construction Average Low Bid Unit Price					
NOTE: Excludes cost of land acquisition, environmental permitting, and the protection, relocation, and reconstruction of utilities					
<p>Since the design professional has no control over the cost of labor, materials, or equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions, his opinions of probable cost provided for herein are to be made on the basis of his experience and qualifications. These opinions represent his best judgment as a design professional familiar with the construction industry. However, the design professional can not and does not guarantee that proposals, bids, or construction cost will not vary from the opinions of probable cost he has prepared. If the owner wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.</p>					

Table 3.3: Lower Basin Detention Structure (“Quarry”) Opinion of Probable Cost

Onion Creek Regional Detention Structures: Lower Basin (Buda Quarry Site)					
TxDOT ITEM NO.	DESCRIPTION OF ITEM	TOTAL QUANTITY	UNIT	UNIT PRICE	COST
502-2001	Barricades, Signs, and Traffic Handling	6	MO	\$ 6,000.00	\$ 36,000
2022-2003	Site Preparation and Restoration	1	EA	\$ 30,000.00	\$ 30,000
752-2024	Tree Removal (18"-24" Dia)	20	EA	\$ 850.00	\$ 17,000
110-2002	Channel Excavation	426,000	CY	\$ 5.00	\$ 2,130,000
132-2002	Embankment (density-Type A)	0	CY	\$ 5.00	\$ -
462-2005	Concrete Box Culvert (4 ft x 4 ft)	2,700	LF	\$ 400.00	\$ 1,080,000
466-2203	Headwall - Special	1	EA	\$ 10,000.00	\$ 10,000
466-2204	Wingwall - Special (energy dissipation structure)	1	EA	\$ 20,000.00	\$ 20,000
160-2003	Stockpiling and Placing Topsoil (4")	13,333	SY	\$ 3.00	\$ 40,000
5941-2014	Hydromulch Seeding	13,333	SY	\$ 2.00	\$ 26,667
169-2001	Soil Retention Blankets	6,667	SY	\$ 6.00	\$ 40,000
500-2001	Mobilization (10%)	1	LS	\$ 342,966.67	\$ 342,967
	Engineering Fees (10%)	1	LS	\$ 368,963.33	\$ 368,963
	SUBTOTAL				\$ 4,141,597
	30% CONTINGENCY				\$ 1,242,479
	TOTAL				\$ 5,384,076
	Inundation Easements	120	AC	\$ 15,000	\$ 1,800,000
REFERENCE: Prices based on TXDOT Statewide Construction Average Low Bid Unit Price					
NOTE: Excludes cost of land acquisition, environmental permitting, and the protection, relocation, and reconstruction of utilities					
<p>Since the design professional has no control over the cost of labor, materials, or equipment, or over the contractor's method of determining prices, or over the competitive bidding or market conditions, his opinions of probable cost provided for herein are to be made on the basis of his experience and qualifications. These opinions represent his best judgment as a design professional familiar with the construction industry. However, the design professional can not and does not guarantee that proposals, bids, or construction cost will not vary from the opinions of probable cost he has prepared. If the owner wishes greater assurance as to the construction cost, he shall employ an independent cost estimator.</p>					

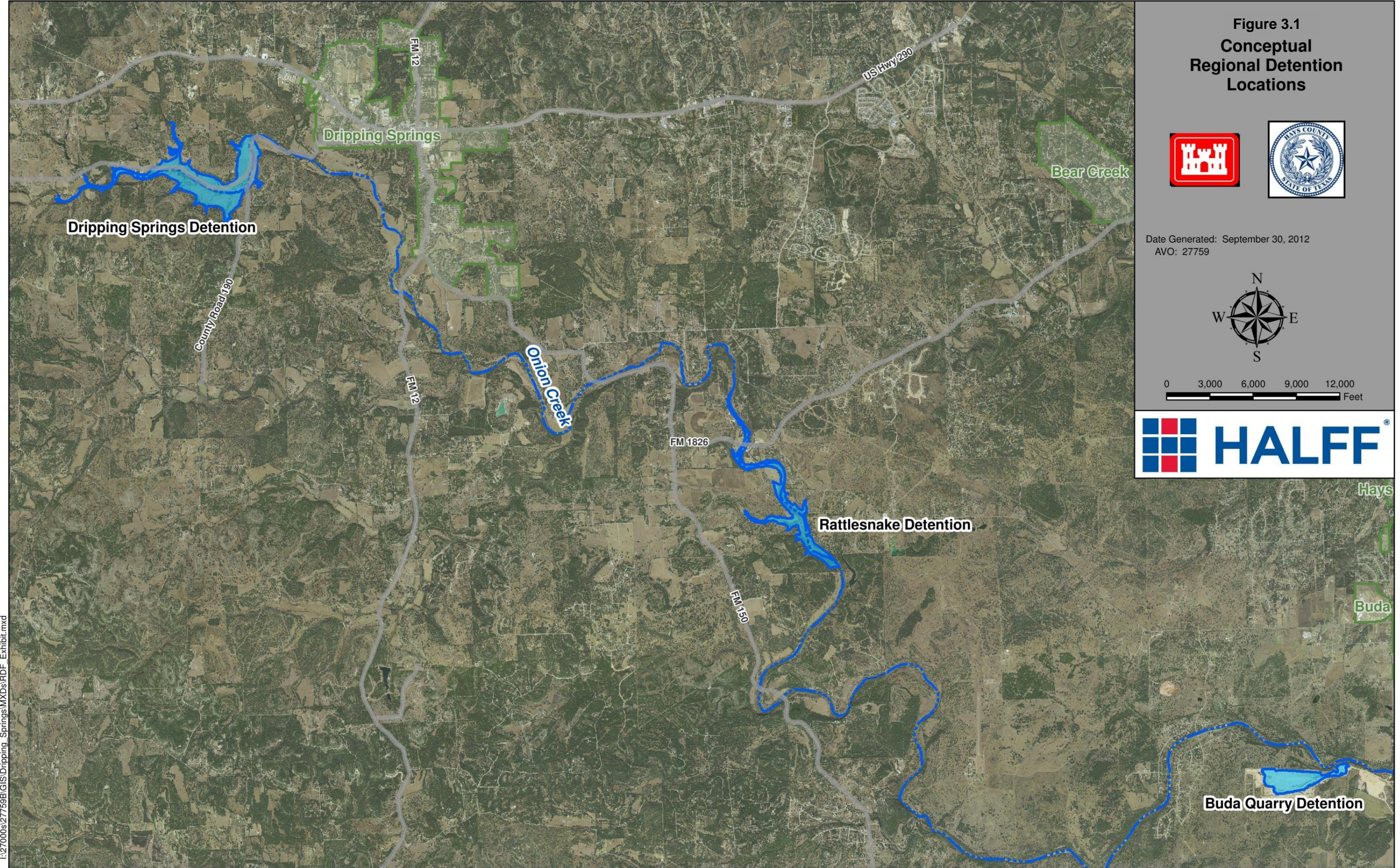


Figure 3.1
Conceptual
Regional Detention
Locations

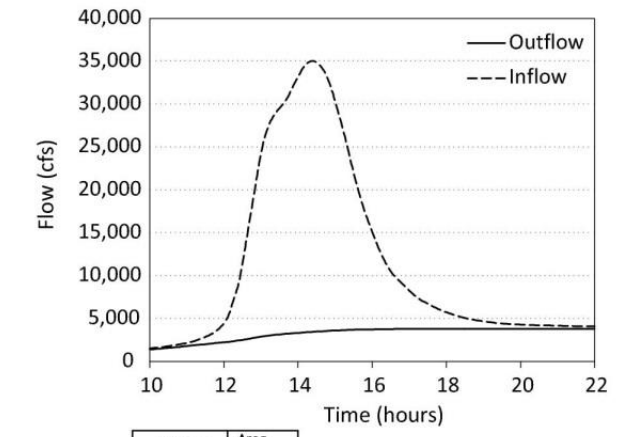
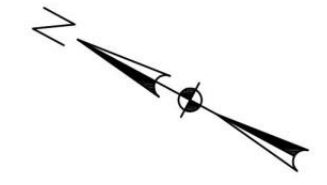
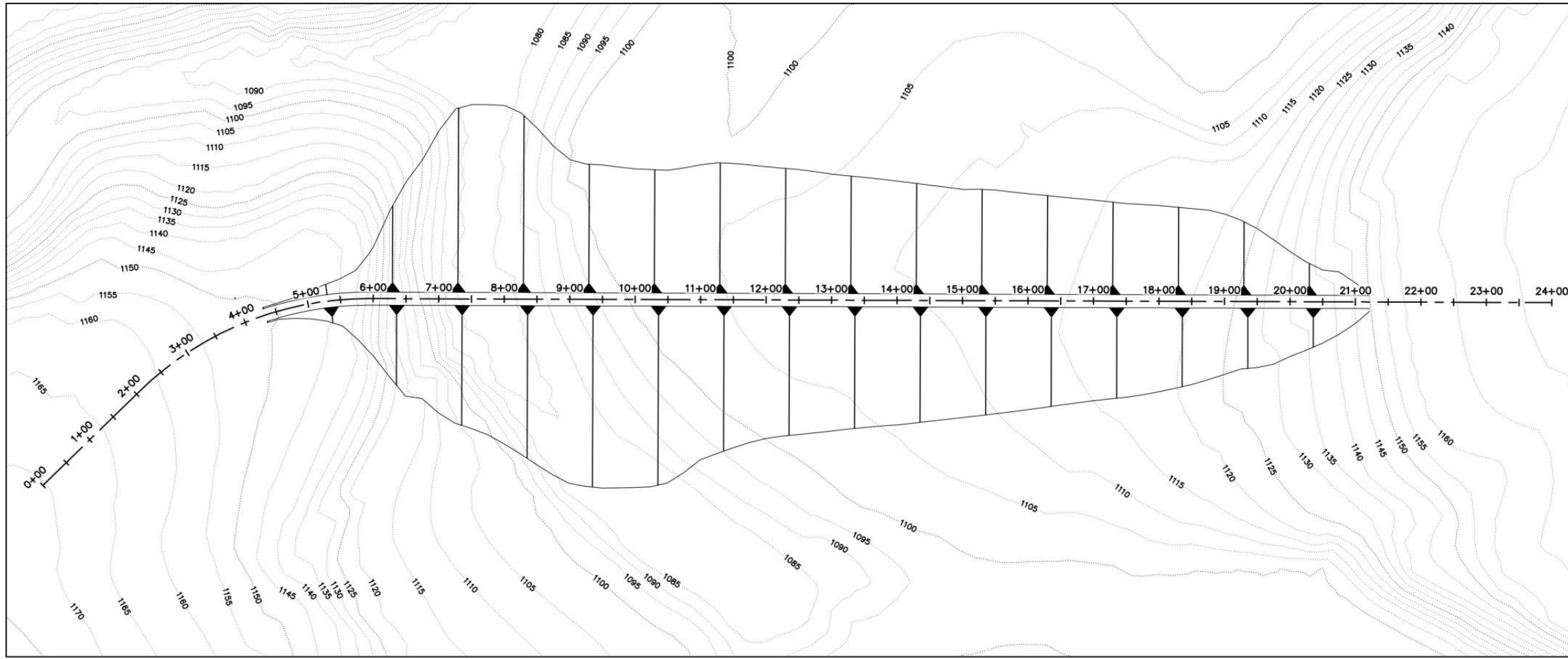


Date Generated: September 30, 2012
AVO: 27759



0 3,000 6,000 9,000 12,000
Feet





Elevation	Area (acres)
1075	0.00
1076	0.26
1077	2.02
1078	3.03
1079	4.15
1080	15.99
1081	41.43
1110	63.36
1115	90.00
1120	164.92
1125	243.22
1130	292.65
1135	336.84
1140	396.62
1145	457.24
1150	513.98
1155	568.97
1160	645.38
1165	761.29
1170	852.78

100 year WSEL = 1142.3 ft
 Area inundated by 100 year flood = 420 acres
 Net fill = 483,000 cu. yds.

Description of Outlet Works:
 One 10 ft x 10 ft box culvert at flow line of Onion Creek

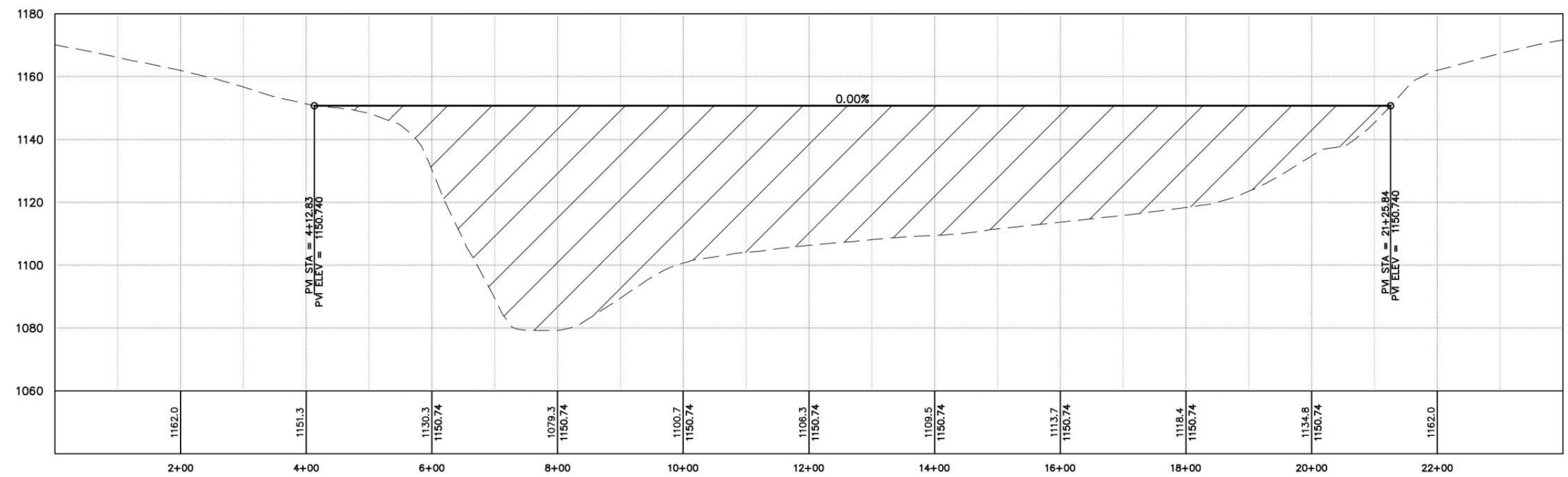
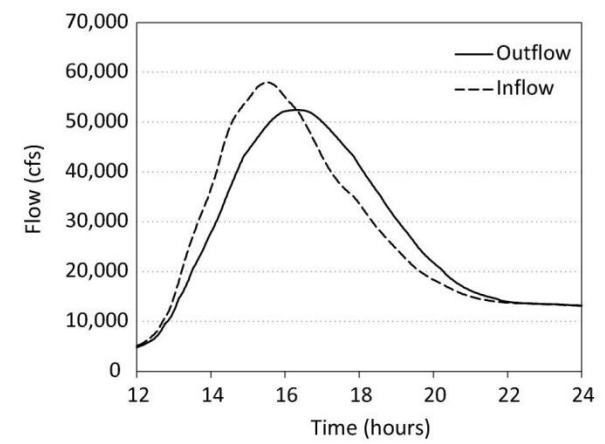
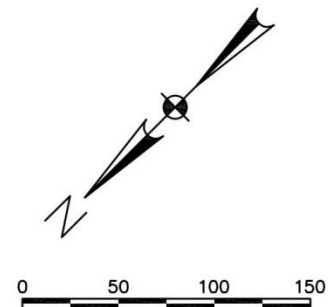
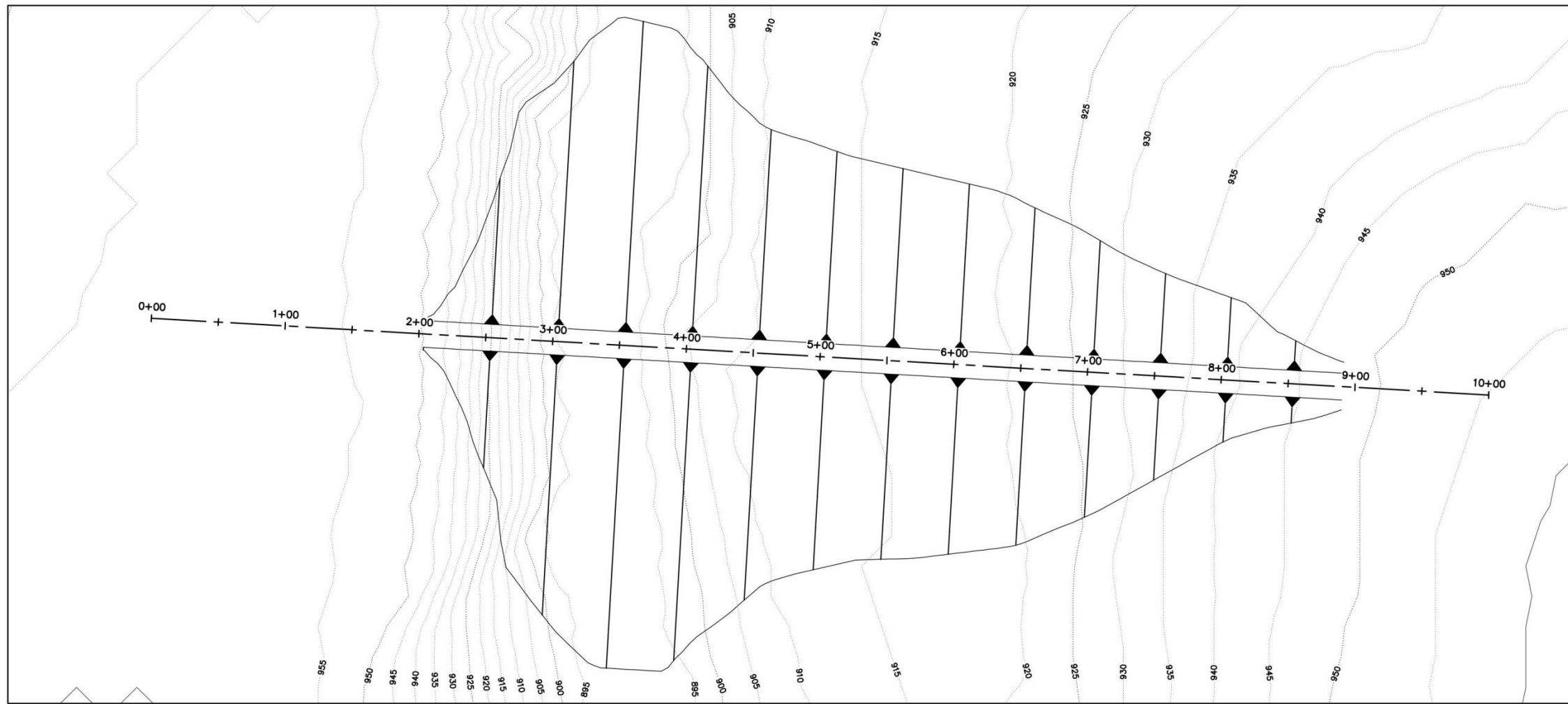


Figure 3.2
 Conceptual Regional Detention Facilities:
 Dripping Springs

Hays County
 Alternatives Analysis

Date Generated: September 28, 2012
 AVO: 27759





Elevation	Area (acres)
890	0.0
895	1.4
900	2.3
905	5.0
910	8.5
915	21.0
920	50.3
925	67.5
930	83.6
935	102.1
940	194.1
945	276.5
950	341.5

100 year WSEL = 940.2 ft
 Area inundated by
 100 year flood = 200 acres
 Net fill = 135,000 cu. yds.

Description of Outlet Works:
 Four 10 ft x 10 ft box culvert
 at flow line of Onion Creek
 70 ft weir at 905 ft
 230 ft weir at 945 ft

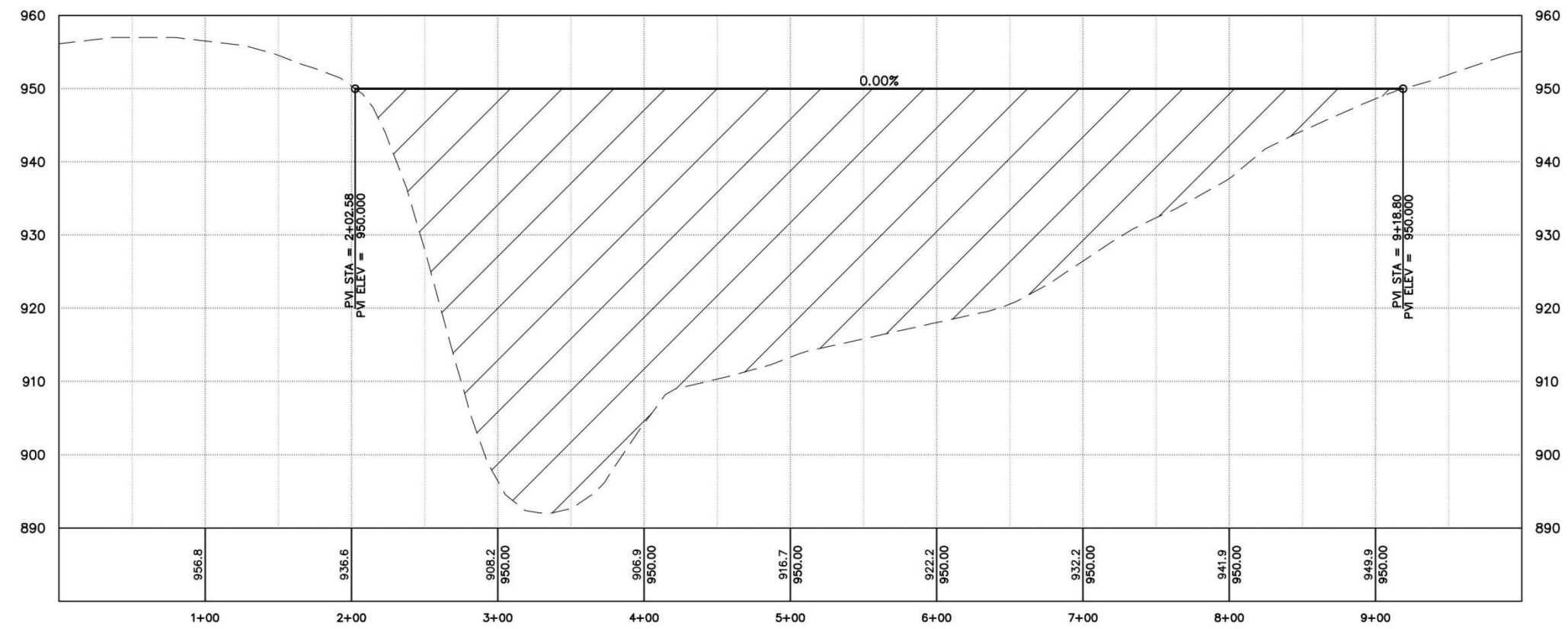


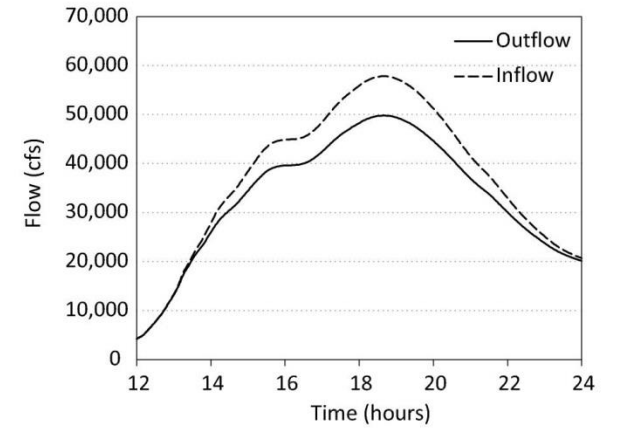
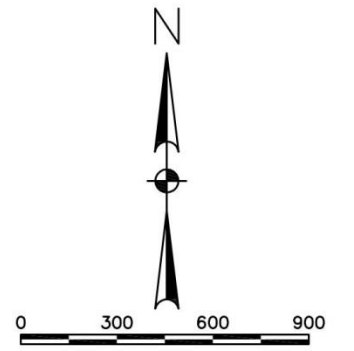
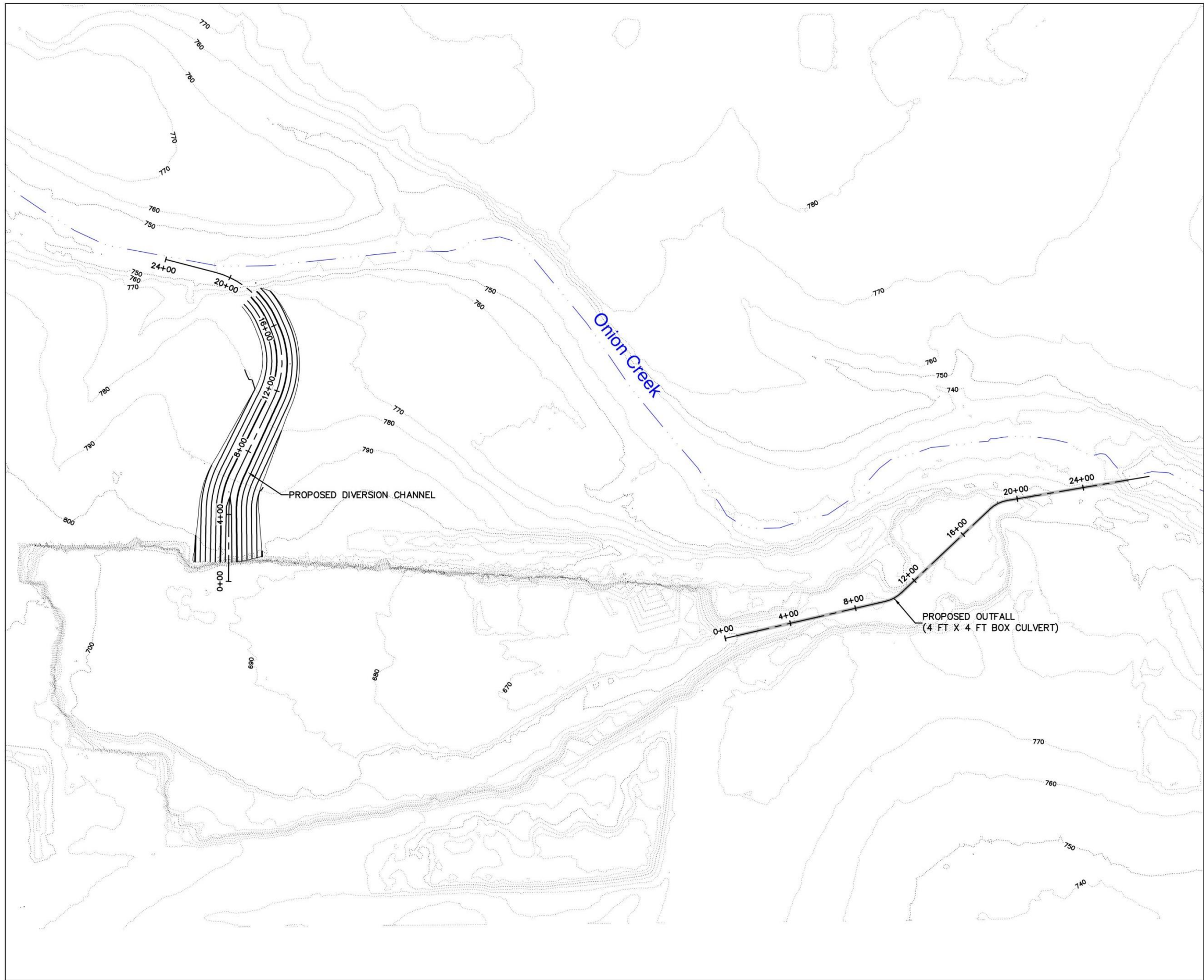
Figure 3.3
 Conceptual Regional
 Detention Facilities:
 "Rattlesnake" Pond

Hays County
 Alternatives Analysis

Date Generated: September 28, 2012
 AVO: 27759



2012.10.03 06:11 PM ch2544 I:\27000s\27759\CADD\Alternatives\RegionalDetention\20120926_Burmside_Working.dwg



Elevation	Area (acres)
0	
700	85.96
705	93.49
710	99.77
715	102.67
720	105.59
725	108.84
730	111.45
735	113.67
740	126.62
745	129.55

100 year WSEL = 736.3 ft
 Area inundated by 100 year flood = 120 acres
 Net cut = 426,000 cu. yds.

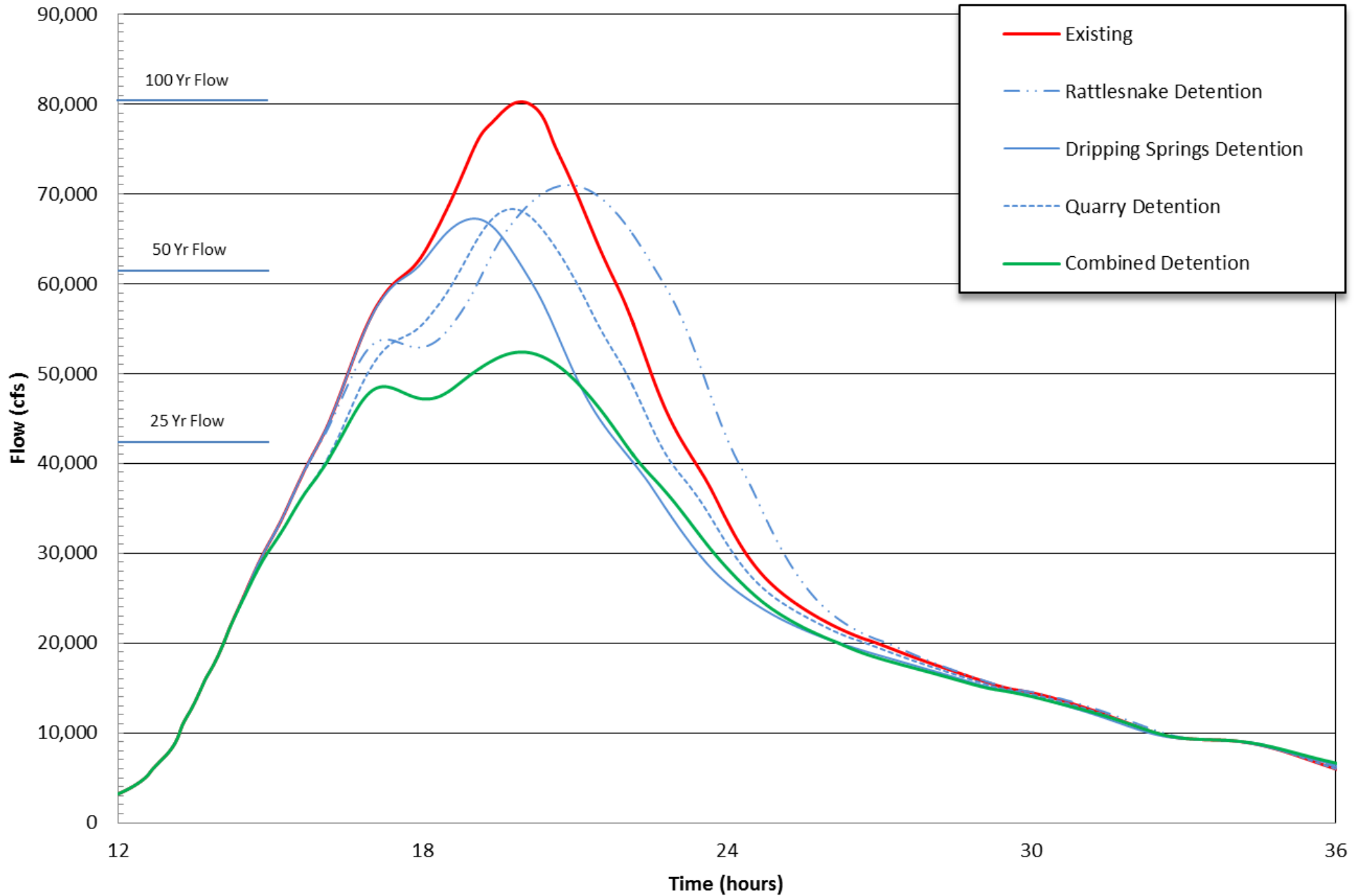
Figure 3.4
 Conceptual Regional Detention Facilities:
 Buda Quarry

Hays County
 Alternatives Analysis

Date Generated: September 28, 2012
 AVO: 27759



Figure 3.5: Comparison of 100 Year Flows of Onion Creek at Hays County Line



Average decrease in 100 year floodplain is approximately 4-5 feet near Buda for Combined Detention

Project Area 4: Analysis of Major Structures for All Studied Watersheds

Background:

Hays County and the United States Army Corps of Engineers have requested Halff Associates, as part of an alternatives analysis for the Onion, Bear, Little Bear, Barton, and Pedernales watershed in Hays County, develop a ranking system for low water crossings. This ranking is intended to provide a means for the county to prioritize the low water crossings by flooding hazard. Described below is the methodology used by Halff Associates to develop the ranking presented in Table 4.1.

Means and Methodology:

Determination of Traffic Count at Each Structure

The traffic count for each structure within the study basin was derived from traffic and saturation count data recorded by the Texas Department of Transportation (TxDOT) in 2010 and provided by the Capitol Area Metropolitan Planning Organization (CAMPO). The data was provided in a PDF map marking the data collection points. These maps were spatially referenced to political, geographical, and structural landmarks. A spatial analysis was manually performed using aerial photography, roadway networks, and the traffic count maps to determine a relative traffic pattern and an approximate Average Annual Daily Traffic (AADT) for the nearby structures within the study basin.

Information from HEC-RAS Models

Some data was harvested from the detailed hydraulic models that Halff Associates has prepared for Hays County. This data includes: stream name, structure station, road names, minimum top of road elevations, water surface elevations, flow rates, and the frequency of overtopping for different structures.

Development of "Urgency Rating"

Halff Associates developed an "Urgency Rating" for all structures within the Onion Creek, Barton Creek, and Pedernales River watersheds. The higher a structure's urgency rating, the higher the risk is for that structure. The urgency rating is the Average Annual Daily Traffic Count multiplied by the Annual Chance of Flood that overtops the roadway. A summary of the 83 structures with the urgency ratings is presented in Table 4.1 and Figure 4.1.

Summary:

The three highest ranking crossings identified by Halff Associates are listed in Table 4.2:

Table 4.2: Top Three Structures

Rank	Roadway	Stream Crossing	Urgency Rating
1	R.R. 967	Little Bear	4600
2	F.M. 1626	Little Bear	2840
3	R.R. 1826	Bear Tributary 1.1	1860

Cottonwood Branch	6935	Hidden Hills Drive	Culvert	200	1084.22	1083.01	1086.15	1086.46	1086.74	1086.97	1087.19	1087.45	1087.68	Barton	20.0%	2230	2890	40		70
UNT Onion Creek: Tributary	1583	Ruby Ranch Rd	Culvert	300	786.10	781.91	783.75	787.17	787.96	788.85	789.25	789.68	789.77	Onion Creek	10.0%	2870	4600	30	2	71
Mustang Branch	9818	S FM 1626	Bridge	12200	742.73	719.76	723.29	725.81	728.84	730.55	731.95	733.58	734.92	Onion Creek	0%	7040	11700	24.4	2	72
Onion	178608	South Farm to Market 1626	Bridge	12200	733.99	695.37	702.56	706.38	711.18	714.7	717.45	720.31	722.5	Onion Creek	0%	40570	78320	24.4	2	73
Little Bear	43028	Arbor Trail	Culvert	100	795.79	793.41	798.37	800.04	801.95	803.04	804.04	805.34	806.5	Little Bear	20%	9710	16730	20	2	74
Barton Creek	249825	McGregor Ln.	Culvert	1000	1239.52	1231.88	1235.38	1237.12	1239.18	1240.23	1240.93	1241.65	1242.15	Barton	2.0%	3990	5340	20		75
UNT Onion Creek: Reach 1	4762	Ruby Ranch Rd	Culvert	300	793.88	785	787.8	790.02	794.44	795.26	795.75	796.26	796.62	Onion Creek	4%	3660	5810	12	2	76
Garlic Creek Trib 1	865	Cullen Blvd	Culvert	2000	721.74	712.92	714.02	715.02	716.41	717.35	718.25	719.4	720.44	Onion Creek	0%	780	1240	4	2	77
Garlic Creek	28977	Maybrook Dr	Culvert	670	771.15	763.84	765.39	766.7	768.4	769.65	770.88	771.61	771.93	Onion Creek	0%	2610	3970	2.68	2	78
Rocky Branch	16368	La Ventana Parkway	Culvert	250	1046.71	1037.17	1039.93	1041.94	1044.5	1046.15	1047.17	1047.57	1047.85	Onion Creek	1%	2620	4180	2.5	4	79
Yorks Creek	11614	Yorks Crossing	Culvert	100	927.76	916.48	918.11	919.23	921.78	924.23	928	929.85	930.79	Onion Creek	1%	5350	8470	1	3	80
Spring Hollow Creek	20944	Cool Spring Way	Culvert	400	1087.53	1081.81	1082.62	1083.22	1084.05	1084.61	1085.12	1085.77	1086.71	Bear Creek	0.2%	730	1130	0.8	4	81
Spring Hollow Creek	18447	Cool Spring Way	Culvert	400	1064.37	1057.03	1057.91	1058.58	1059.48	1060.27	1061.1	1061.42	1062.44	Bear Creek	0.2%	730	1130	0.8	4	82
Onion	194387	Ruby Ranch Rd	Bridge	100	792.01	768.77	775.09	778.53	783.23	786.97	790.03	794.41	795.3	Onion Creek	0%	39910	77480	0.4	2	83

NOTES																			
1. As designated within Hec-RAS models																			
2. Stationing begins at the most downstream location of conveyance for the stream																			
3. As designated within Hec-RAS models																			
4. As designated within Hec-RAS models																			
5. Data interpreted from traffic_counts.shp																			
6. Minimum TOR elevation only considered for driving surface of the structure (excludes surrounding roadways on grade)																			
7. As determined by Hec-RAS models																			
8. If water elevation of 500-yr event did not exceed the structure elevation, 500-yr event indicated																			
9. Flowrates taken from adjacent upstream XS																			
10. Calculated as (AADT Traffic Count)/(Frequency of flooding storm event)																			
11. Relative to all other structures in the watershed																			
12. Minimum TOR Elevation taken app. 240' west of the structure																			

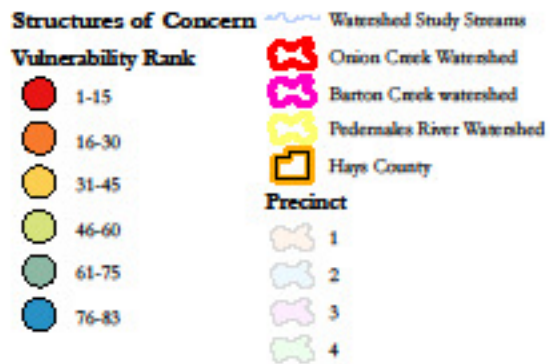
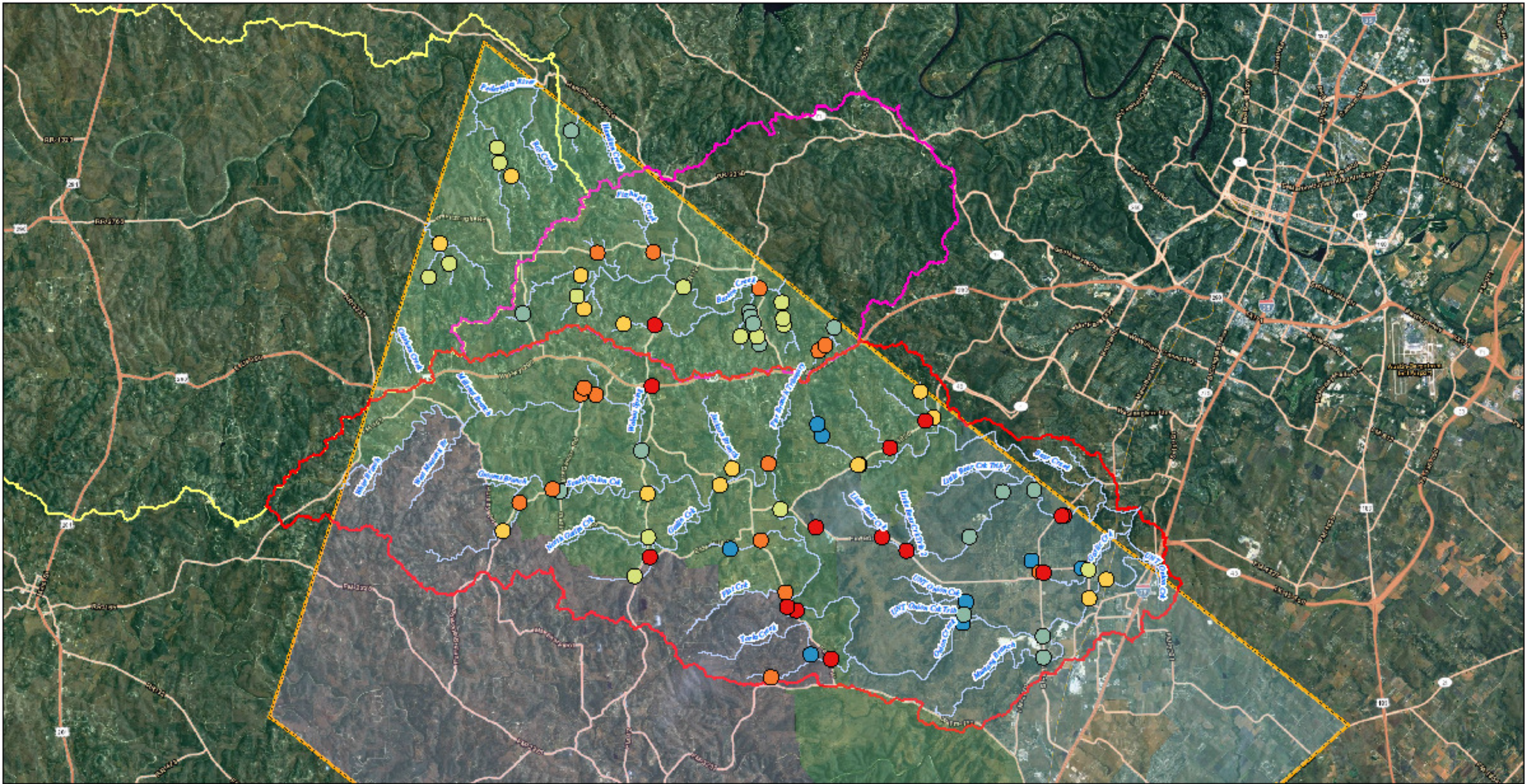
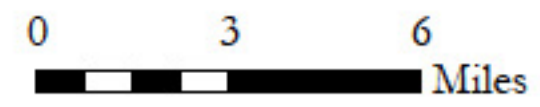


Figure: 4.1

Stream Crossing Urgency Ratings

Onion Creek, Barton Creek, & Pedernales River Watersheds
Hays County, Texas



Appendix H.2

Structure Inventory

Habitable Structures Inventory

Property ID	Property Owner	Property Address	Owner Address	Improvement Value	Elevation	Elevation plus Slab
R17883	HANKS ROGER RESIDUARY TRUST	27401 RR12 DRIPPING SPRINGS, TX 78620	4100 JACKSON AVE APT 429 AUSTIN, TX 78731	124370	1159.22	1160.72
R70421	DRIPPING SPRINGS RETAIL LTD	E US 290 & RANCH RD 12 DRIPPING SPRINGS, TX 78620	1914 A WEST HOWARD LN AUSTIN, TX 78728	207800	1158.61	1160.11
R130269	ROUTT INVESTMENT LTD	104 E US 290 DRIPPING SPRINGS, TX 78620	4911 E SEVENTH ST AUSTIN, TX 78702	263000	1159.60	1161.10
R130272	DRIPPINGS INVESTMENT GROUP LLC	200 E US 290 DRIPPING SPRINGS, TX 78620	1805 LOGANS HOLLOW DR AUSTIN, TX 78746-3723	581380	1154.33	1155.83
R70421	DRIPPING SPRINGS RETAIL LTD	E US 290 & RANCH RD 12 DRIPPING SPRINGS, TX 78620	1914 A WEST HOWARD LN AUSTIN, TX 78728	159620	1155.15	1156.65
R26682	HUBBARD DANNY LLC	120 W US 290 DRIPPING SPRINGS, TX 78620	715 MEADOW OAKS DR DRIPPING SPRINGS, TX 78620	110150	1154.97	1156.47
R26683	110 HWY 290 W LTD	110 US 290 W DRIPPING SPRINGS, TX 78620-0002	P O BOX 2 DRIPPING SPRINGS, TX 78620-0002	136160	1155.86	1157.36
R26680	DRIPPING SPRINGS NATIONAL BANK	401 MERCER ST DRIPPING SPRINGS, TX 78620	P O BOX 2609 CARLSBAD, CA 92018-2609	197200	1156.81	1158.31
R130269	ROUTT INVESTMENT LTD	104 E US 290 DRIPPING SPRINGS, TX 78620	4911 E SEVENTH ST AUSTIN, TX 78702	33380	1161.88	1163.38
R70689	BROWN JACK FAMILY III LP	108 E US 290 DRIPPING SPRINGS, TX 78620	P O BOX 28159 AUSTIN, TX 78755-8159	157130	1159.32	1160.82
R127259	HOME DEPOT USA INC	260 E US 290 DRIPPING SPRINGS, TX 78620	2800 FOREST LN DALLAS, TX 75234	4396310	1156.01	1157.51
R23578	HUDSON BARBARA FAMILY TRUST	101 HAYS ST DRIPPING SPRINGS, TX 78620	P O BOX 1239 DRIPPING SPRINGS, TX 78620-1239	223040	1156.65	1158.15
R17782	BASSETT, WILLIAM C	SAN MARCOS ST DRIPPING SPRINGS, TX 78620	P O BOX 615 DRIPPING SPRINGS, TX 78620-0615	2630	1154.06	1155.56
R17976	ROSE KENNETH M & BONNIE MAE	27320 RR 12 DRIPPING SPRINGS, TX 78620	P O BOX 325 DRIPPING SPRINGS, TX 78620-0325	117260	1153.66	1155.16
R26686	A-C ACQUISITION LLC	27495 RR 12 DRIPPING SPRINGS, TX 78620	P O BOX 1159 DEERFIELD, IL 60015-6002	939470	1156.64	1158.14
R26684	100 HWY 290 W LTD	100 US 290 DRIPPING SPRINGS, TX 78620	P O BOX 2 DRIPPING SPRINGS, TX 78620-0002	179230	1154.84	1156.34
R26680	DRIPPING SPRINGS NATIONAL BANK	401 MERCER ST DRIPPING SPRINGS, TX 78620	P O BOX 2609 CARLSBAD, CA 92018-2609	120580	1155.96	1157.46
R116157	CARTER, H C	131/141 E LOOP 64 DRIPPING SPRINGS, TX 78620	P O BOX 249 DRIPPING SPRINGS, TX 78620-0249	296190	1159.05	1160.55
R116156	CARTER, H C	151 E LOOP 64 DRIPPING SPRINGS, TX 78620	P O BOX 249 DRIPPING SPRINGS, TX 78620-0249	115250	1158.03	1159.53
R116155	MP COMMONS LLC	100 COMMONS RD DRIPPING SPRINGS, TX 78620	3555 LOST CREEK BLVD AUSTIN, TX 78735-1445	2464350	1157.50	1159.00
R23566	CHASE JOHN W & PAMULLA E	222 MERCER ST DRIPPING SPRINGS, TX 78620	P O BOX 43 DRIPPING SPRINGS, TX 78620-0043	78840	1157.57	1159.07
R17803	DRIPPING SPRINGS WATER SUPPLY	134 MERCER ST DRIPPING SPRINGS, TX 78620	P O BOX 354 DRIPPING SPRINGS, TX 78620-0354	34000	1151.65	1153.15
R116157	CARTER, H C	131/141 E LOOP 64 DRIPPING SPRINGS, TX 78620	P O BOX 249 DRIPPING SPRINGS, TX 78620-0249	27440	1151.16	1152.66
R116156	CARTER, H C	151 E LOOP 64 DRIPPING SPRINGS, TX 78620	P O BOX 249 DRIPPING SPRINGS, TX 78620-0249	98240	1151.96	1153.46
R23569	ROBERTS THOMAS GENE & MARTY L	402 MERCER ST DRIPPING SPRINGS TX	P O BOX 305 DRIPPING SPRINGS, TX 78620-0305	100970	1147.35	1148.85
R23568	ROBERTS THOMAS GENE & MARTY L	MERCER ST	P O BOX 305 DRIPPING SPRINGS, TX 78620-0305	194670	1150.34	1151.84
R23570	MCAFFEE WILLIAM S & PAMELA R	100 MERCER ST DRIPPING SPRINGS TX	P O BOX 1668 DRIPPING SPRINGS, TX 78620-1668	49620	1152.23	1153.73
R26692	SREE VYSHNAVI INC	200 W US 290 DRIPPING SPRINGS, TX 78620	200 W US 290 DRIPPING SPRINGS, TX 78620	143690	1146.48	1147.98
R26691	HAYDON, ALVA	222 W US 290 DRIPPING SPRINGS, TX 78620	P O BOX 5 DRIPPING SPRINGS, TX 78620-0005	55750	1136.49	1137.99
R10774	HAYS COUNTY EMERGENCY SERV DIST #8	209 JACK C HAYS TRL BUDA, TX 78610	P O BOX 782 BUDA, TX 78610-0782	156930	699.90	701.40
R10748	BUDA MILL & GRAIN CO	306 LOOP 4 BUDA, TX 78610	PO BOX 1436 BUDA, TX 78610-1436	10930	716.40	717.90
R10748	BUDA MILL & GRAIN CO	306 LOOP 4 BUDA, TX 78610	PO BOX 1436 BUDA, TX 78610-1436	11720	715.79	717.29
R10748	BUDA MILL & GRAIN CO	306 LOOP 4 BUDA, TX 78610	PO BOX 1436 BUDA, TX 78610-1436	10930	717.42	718.92
R10570	DAHLSTROM FAMILY LP	304 S AUSTIN ST BUDA TX	302 S MAIN ST BUDA, TX 78610	28320	714.89	716.39
R10698	BOWDEN B W PROPERTIES INC	105 JACK C HAYS TRL (FM 2770) BUDA, TX 78610	1503 POST RD SAN MARCOS, TX 78666	114280	716.91	718.41
R10747	BUDA MILL & GRAIN CO	302 S MAIN ST BUDA, TX 78610	PO BOX 1436 BUDA, TX 78610-1436	115330	716.86	718.36
R22313	WESTLAKE EQUIPMENT SERVICE CO INC	210 S MAIN ST BUDA, TX 78610	11307 STORMY RIDGE RD AUSTIN, TX 78739	94740	714.89	716.39
R132524	RUHLING, CHRISTOPHER	275 BLUFF ST BUDA, TX 78610	275 BLUFF ST BUDA, TX 78610	175420	696.11	697.61
R132533	SHEETS JEFFREY & SHELLY	141 WATSON CT BUDA, TX 78610	P O BOX 1667 BUDA, TX 78610-1667	191700	714.16	715.66
R111186	CLARK, MARTIN W	204 S AUSTIN ST BUDA, TX 78610	204 S AUSTIN ST BUDA, TX 78610	54900	714.11	715.61
R22311	KIMPLE, JOHN D	204 S MAIN ST BUDA, TX 78610	201 CROSS LN KYLE, TX 78640	34810	714.11	715.60
R22312	KIMPLE, JOHN D	206 S MAIN BUDA, TX 78610	P O BOX 516 BUDA, TX 78610-0516	1000	693.42	694.92
R22310	HARRIS FRASER B & LINDA CELESTA	200 S MAIN BUDA, TX 78610	P O BOX 207 BUDA, TX 78610-0207	39600	712.86	714.36
R22315	CLARK, CECIL A	200 S AUSTIN ST BUDA, TX 78610	200 S AUSTIN ST BUDA, TX 78610	84730	712.81	714.31
R22318	FRANKE, RONALD R	207 CHINA ST BUDA, TX 78610	P O BOX 456 BUDA, TX 78610-0456	83350	710.44	711.94
R22326	FIRST BAPTIST CHURCH OF BUDA	104 San Marcos Street Buda, TX 78610	P O BOX 537 BUDA, TX 78610-0537	18150	706.68	708.18
R22324	CRUMLEY LORENE J ESTATE	111 SAN MARCOS ST BUDA, TX 78610	111 SAN MARCOS ST BUDA, TX 78610	638800	713.53	715.03
R110166	MUSICK, JERRY	1212 BEAUCHAMP RD DRIPPING SPRINGS, TX 78620	1212 BEAUCHAMP RD DRIPPING SPRINGS, TX 78620	322910	1197.11	1198.61
R45417	HOWARD GERALD W & ANNA L	1801 SYCAMORE CREEK, DRIPPING SPRINGS, TX 78620	1801 SYCAMORE CREEK, DRIPPING SPRINGS, TX 78620	155100	935.49	936.99
R45396	ANDERSON, DEBORAH L	301 SYCAMORE VALLEY RD DRIPPING SPRINGS, TX 78620	P O BOX 313, DRIPPING SPRINGS, TX 78620-0313	183780	921.42	922.92
R46854	CAPPS, KYLE F	100 VISTA WEST RCHS	100 COMMONS RD STE #7-411, DRIPPING SPRINGS, TX 78620-3966	255450	1125.30	1126.80
R60563	THERIOT ROBERT H	101 HILLVIEW TRL DRIPPING SPRINGS, TX 78620	6535 COMANCHE TRL, AUSTIN, TX 78732	139360	930.60	932.10
R19876	AMINI RON	1558 CORKY COX RANCH RD ROUND MOUNTAIN, TX 78663	3508 LOST CREEK BLVD, AUSTIN, TX 78735	214210	773.54	775.04
R30279	HOGAN, STEVEN M	8 HERITAGE OAKS DR, AUSTIN, TX 78737	8 HERITAGE OAKS DR, AUSTIN, TX 78737	188790	1091.71	1093.21
R30221	NUTT STEPHEN S & KAREN N	13 HERITAGE OAKS DR, AUSTIN, TX 78737	13 HERITAGE OAKS DR, AUSTIN, TX 78737	316130	1085.77	1087.27
R30362	BLEDSE CLINT & KELLIE	3 TALL OAKS TRL, AUSTIN, TX 78737	3 TALL OAKS TRL, AUSTIN, TX 78737	254480	1073.40	1074.90
R30340	COVINGTON, JAMES	5 LONG CREEK RD, AUSTIN, TX 78737	5 LONG CREEK RD, AUSTIN, TX 78737	267740	1047.24	1048.74
R36987	JAMES JAMES CORBY & MAURIE T	11911 OAK BRANCH DR, AUSTIN, TX 78737	11911 OAK BRANCH DR, AUSTIN, TX 78737	361640	1037.28	1038.78
R30379	O'GRADY BRIAN & MARGARET A	2 LONGWOOD RD, AUSITN, TX 78737	220 MCDONALD DR, PASCO, WA 99301	81250	1037.55	1039.05
R30379	O'GRADY BRIAN & MARGARET A	2 LONGWOOD RD, AUSITN, TX 78737	220 MCDONALD DR, PASCO, WA 99301	329900	1037.18	1038.68
R36985	MEDLIN RHONDA M & ROBERT D	11901 OAK BRANCH DR, AUSTIN, TX 78737	11901 OAK BRANCH DR, AUSTIN, TX 78737	386430	1043.67	1045.17
R12855	NELSON, LANA	14509 FITZHUGH RD, DRIPPING SPRINGS, TX 78620	14509 FITZHUGH RD, DRIPPING SPRINGS, TX 78620	360830	954.80	956.30

Habitable Structures Inventory

Property ID	Property Owner	Property Address	Owner Address	Improvement Value	Elevation	Elevation plus Slab
R37916	BOWDEN, RICHARD A	12460 PAULS VALLEY RD AUSTIN, TX 78737	12460 PAULS VALLEY RD AUSTIN, TX 78737	121720	953.77	955.27
R18295	BURTON, CHARLES R	13303 RED GATE LN, AUSTIN, TX 78737	1100 GUADALUPE, AUSTIN, TX 78701	9500	1028.31	1029.81
R18295	BURTON, CHARLES R	13303 RED GATE LN, AUSTIN, TX 78737	1100 GUADALUPE, AUSTIN, TX 78701	2500	1029.12	1030.62
R18297	LEE LLOYD & CHELESE	13431 TRAIL DRIVER CIR, AUSTIN, TX 78737	13431 TRAIL DRIVER CIR, AUSTIN, TX 78737	119550	1044.42	1045.92
R13155	BODE SUSIE A	14909 B FITZHUGH RD AUSTIN, TX 78736	14909 B FITZHUGH RD AUSTIN, TX 78736	118920	959.84	961.34
R125979	SPARKLE 5 PARTNERSHIP LP	12250 TRAUTWEIN RD, AUSTIN, TX 78737	12250 TRAUTWEIN RD, AUSTIN, TX 78737	813660	963.84	965.34
R44564	KELLEY TRISHA	1049 HIDDEN HILLS DR DRIPPING SPRINGS, TX 78620	1049 HIDDEN HILLS DR DRIPPING SPRINGS, TX 78620	164440	1089.26	1090.76
R44505	ONEY CLAUDIA & PAIGE WILLIAM C	1050 HIDDEN HILLS DR, DRIPPING SPRINGS, TX 78620-3935	1050 HIDDEN HILLS DR, DRIPPING SPRINGS, TX 78620-3935	199010	1083.40	1084.90
R45043	KINCAID, SEAN N	610 COTTONWOOD CREEK RD, DRIPPING SPRINGS, TX 78620	610 COTTONWOOD CREEK RD, DRIPPING SPRINGS, TX 78620	21780	1050.96	1052.46
R43111	BULLOCK, ESTELLINE	140 LITTLE BARTON DR DRIPPING SPRINGS, TX 78620	100 LITTLE BARTON DR, DRIPPING SPRINGS, TX 78620	174510	1222.01	1223.51
R43157	THURMAN DAVID M & PATRICE	311 BARTON MEADOWS DR, DRIPPING SPRINGS, TX 78620	311 BARTON MEADOWS DR, DRIPPING SPRINGS, TX 78620	3320	1222.98	1224.48
R43160	FISHER JONATHAN D & KUDO MIKIKO	341 BARTON MEADOW DR, DRIPPING SPRINGS, TX 78620	341 BARTON MEADOW DR, DRIPPING SPRINGS, TX 78620	12000	1233.54	1235.04
R20646	FELKEL JOSEPH R & CAROL A	386 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	386 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	208740	1025.39	1026.89
R20646	FELKEL JOSEPH R & CAROL A	386 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	386 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	43820	1024.82	1026.32
R20645	RAESZ, RONALD G	302 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	6103 OLIVER LOVING TRL, AUSTIN, TX 78749	112430	1026.54	1028.04
R20644	DRAKE TONYA B	300 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	300 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	245870	1026.07	1027.57
R20643	MORGAN BILLY JOE & LANE H	280 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	280 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	252460	1028.37	1029.87
R20642	CASSERBERG MARION A & MORTON ROBERT D	256 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	256 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	190230	1028.95	1030.45
R20642	CASSERBERG MARION A & MORTON ROBERT D	256 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	256 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	20850	1027.56	1029.06
R70569	SCOTT ANDREW M & JULIA A TRUST	206 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	206 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	257430	1030.29	1031.79
R20640	ADAMS RICHARD A & VICKI L	110 BARTON RANCH RD DRIPPING SPRINGS, TX 78620	110 BARTON RANCH RD DRIPPING SPRINGS, TX 78620	350130	1030.10	1031.60
R20657	SWIFT BRION R & MELISSA J	175 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	175 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	262140	1035.11	1036.61
R20639	CURME, ROGER W	106 BARTON RANCH RD DRIPPING SPRINGS, TX 78620	106 BARTON RANCH RD DRIPPING SPRINGS, TX 78620	152360	1031.59	1033.09
R20657	SWIFT BRION R & MELISSA J	175 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	175 BARTON RANCH RD, DRIPPING SPRINGS, TX 78620	17340	1034.22	1035.72
R20638	LITCH TIMOTHY ERNEST & RAMSEY CATHERINE ANNE	131 BARTON RANCH RD DRIPPING SPRINGS, TX 78620	131 BARTON RANCH RD DRIPPING SPRINGS, TX 78620	183970	1039.77	1041.27
R20638	LITCH TIMOTHY ERNEST & RAMSEY CATHERINE ANNE	131 BARTON RANCH RD DRIPPING SPRINGS, TX 78620	131 BARTON RANCH RD DRIPPING SPRINGS, TX 78620	10460	1039.96	1041.46
R13743	DIEGO, TAURINO	1330 W FITZHUGH RD DRIPPING SPRINGS, TX 78620	5528 WILD FOXGLOVE RD SPICEWOOD, TX 78669-6906	12940	1087.90	1089.40
R13745	HALL MILTON EST OF	1330 W FITZHUGH RD DRIPPING SPRINGS, TX 78620	1330 W FITZHUGH RD DRIPPING SPRINGS, TX 78620	80750	1090.23	1091.73
R13743	DIEGO, TAURINO	1330 W FITZHUGH RD DRIPPING SPRINGS, TX 78620	5528 WILD FOXGLOVE RD SPICEWOOD, TX 78669-6906	11600	1084.86	1086.36
R13794	TRILICA MATTHEW A & MARLA A	501 BARTON BEND, DRIPPING SPRINGS, TX 78620	501 BARTON BEND DRIPPING SPRINGS, TX 78620	50780	1072.50	1074.00
R15691	MOORE C O LP TX LTD PARTNERSHIP	3375 BELL SPRINGS RD, DRIPPING SPRINGS, TX 78620	4100 JACKSON AVE APT #525, AUSTIN, TX 78731	6520	1129.08	1130.58
R15691	MOORE C O LP TX LTD PARTNERSHIP	3375 BELL SPRINGS RD, DRIPPING SPRINGS, TX 78620	4100 JACKSON AVE APT #525, AUSTIN, TX 78731	28160	1127.66	1129.16
R16560	BREED BENNY RAY & JANIE LEE FAMILY TRUST	4755 W FITZHUGH, DRIPPING SPRINGS, TX 78620	P O BOX 550, DRIPPING SPRINGS, TX 78620-0550	255560	1190.87	1192.37
R13808	MEDLIN CREEK RANCH LTD	2201 W FITZHUGH RD, DRIPPING SPRINGS, TX 78620	2201 W FITZHUGH RD, DRIPPING SPRINGS, TX 78620	20000	1136.51	1138.01
R20260	LONGHORN RIVER RANCH LTD	3201 FM 165 DRIPPING SPRINGS, TX 78620	3144 BEE CAVES RD AUSTIN, TX 78746	37500	1378.10	1379.60
R20260	LONGHORN RIVER RANCH LTD	3201 FM 165 DRIPPING SPRINGS, TX 78620	3144 BEE CAVES RD AUSTIN, TX 78746	1000	1370.64	1372.14
R18222	MORRISON, FLORENCE R	3100 RANCH ROAD 165 DRIPPING SPRINGS, TX 78620	P O BOX 531 BLANCO, TX 78606-0531	6770	1358.96	1360.46
R18237	WHETSTONE FAMILY TRUST	2051 LOOP 165 DRIPPING SPRINGS, TX 78620	2051 LOOP 165 DRIPPING SPRINGS, TX 78620-4731	750	1336.68	1338.18
R18226	DEVERE LARRY & MARY	1835 LOOP 165 DRIPPING SPRINGS, TX 78620	1835 LOOP 165 DRIPPING SPRINGS, TX 78620	26030	1323.38	1324.88
R18226	DEVERE LARRY & MARY	1835 LOOP 165 DRIPPING SPRINGS, TX 78620	1835 LOOP 165 DRIPPING SPRINGS, TX 78620	572840	1315.34	1316.84
R18221	TREEHOUSE REALTY LLC	1717 LOOP 165 DRIPPING SPRINGS, TX 78620	1301 S INTERSTATE 35 STE #200 AUSTIN, TX 78741-1169	103900	1315.43	1316.93
R60165	GILKYSON NANCY HUNTER & POTTER DANIEL ROMEYN	1501 LOOP 165 DRIPPING SPRINGS, TX 78620	1501 LOOP 165 DRIPPING SPRINGS, TX 78620	211080	1302.80	1304.30
R60165	GILKYSON NANCY HUNTER & POTTER DANIEL ROMEYN	1501 LOOP 165 DRIPPING SPRINGS, TX 78620	1501 LOOP 165 DRIPPING SPRINGS, TX 78620	4660	1303.04	1304.54
R60165	GILKYSON NANCY HUNTER & POTTER DANIEL ROMEYN	1501 LOOP 165 DRIPPING SPRINGS, TX 78620	1501 LOOP 165 DRIPPING SPRINGS, TX 78620	36460	1304.01	1305.51
R113725	HUDSON RANCH PARTNERS LLC	1301 LOOP 165 DRIPPING SPRINGS, TX 78620	3144 BEE CAVES RD AUSTIN, TX 78746	22100	1295.19	1296.69
R10945	CLARK HARLEY R JR & PATRICIA R	5455 W US 290 DRIPPING SPRINGS, TX 78620	P O BOX 1306 DRIPPING SPRINGS, TX 78620-1306	18080	1238.29	1239.79
R13321	NATIONWIDE DG NEW WAVERLY INC	161 SPRINGS LN #2400-A DRIPPING SPRINGS, TX 78620	100 N LASALLE ST STE 1111 CHICAGO, IL 60602	320110	1308.41	1309.91
R113324	SUTHERLAND DAVID E & MYRA L	5930 W US 290 DRIPPING SPRINGS, TX 78620	P O BOX 1250 DRIPPING SPRINGS, TX 78620-1306	270840	1323.35	1324.85
R15876	WHITE MARK WELLS & LINDA GALE	CREEK RD DRIPPING SPRINGS, TX 78620	72 E BROAD OAKS DR HOUSTON, TX 77056	42830	1139.12	1140.62
R14382	MATHIS, TRAVIS ALLISON	4301 CREEK RD DRIPPING SPRINGS, TX 78620	P O BOX 1271 DRIPPING SPRINGS, TX 78620-1271	204940	1136.90	1138.40
R15859	HANCOCK/HANKS INVESTMENTS LTD	4201 CREEK RD DRIPPING SPRINGS, TX 78620	1009 W 6TH ST AUSTIN, TX 78703	154350	1136.48	1137.98
R15859	HANCOCK/HANKS INVESTMENTS LTD	4201 CREEK RD DRIPPING SPRINGS, TX 78620	1009 W 6TH ST AUSTIN, TX 78703	4000	1132.74	1134.24
R14380	HANCOCK/HANKS INVESTMENTS LTD	3801 CREEK RD DRIPPING SPRINGS, TX 78620	1009 W 6TH ST AUSTIN, TX 78703	144780	1135.86	1137.36
R14992	JOHNSON, BARBARA JEAN	2000 CREEK RD DRIPPING SPRINGS, TX 78620	2000 CREEK RD DRIPPING SPRINGS, TX 78620	250	1096.71	1098.21
R70255	CARTER, H C	1601 CREEK RD DRIPPING SPRINGS, TX 78620	P O BOX 249 DRIPPING SPRINGS, TX 78620-0249	35280	1085.41	1086.91
R36393	NEEDHAM, DONNA C	NEEDHAM RD DRIPPING SPRINGS, TX 78620	P O BOX 478 DRIPPING SPRINGS, TX 78620-0478	125770	1072.08	1073.58
R17806	CALITERRA PARTNERS LLC	26465 RR 12 DRIPPING SPRINGS, TX 78620	15400 KNOLL TRL STE #201 DALLAS, TX 75248	30310	1057.99	1059.49
R13379	RYAN PAMELA M	24710 RR 12 DRIPPING SPRINGS, TX 78620	1000 RIO GRANDE ST AUSTIN, TX 78701-2014	382740	1034.47	1035.97
R13379	RYAN PAMELA M	24710 RR 12 DRIPPING SPRINGS, TX 78620	1000 RIO GRANDE ST AUSTIN, TX 78701-2014	196380	1032.79	1034.29
R11160	CROMWELL LAURIE & ERIC	COUNTRY LN DRIPPING SPRINGS, TX 78620	404 LOOP ST BUDA, TX 78610-3304	94600	1039.50	1041.00
R13362	BLUM, LINDA JANE THIELEPAPE	24101 RR 12 DRIPPING SPRINGS, TX 78620	801 W LUBBOCK BRENHAM, TX 77833	262230	1052.35	1053.85
R13362	BLUM, LINDA JANE THIELEPAPE	24101 RR 12 DRIPPING SPRINGS, TX 78620	801 W LUBBOCK BRENHAM, TX 77833	3000	1051.67	1053.17

Habitable Structures Inventory

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R16738	SYRING JEFFREY M & KIMBERLEY	2055 MT GAINOR RD DRIPPING SPRINGS, TX 78620	2055 MT GAINOR RD DRIPPING SPRINGS, TX 78620	26740	1113.87	1115.37
R19198	LIVINGSTON, CATHERINE	3001 E MT GAINOR RD DRIPPING SPRINGS, TX 78620	10707 TWILIGHT VISTA AUSTIN, TX 78736	15270	1130.50	1132.00
R19198	LIVINGSTON, CATHERINE	3001 E MT GAINOR RD DRIPPING SPRINGS, TX 78620	10707 TWILIGHT VISTA AUSTIN, TX 78736	99100	1128.16	1129.66
R19292	WHISENANT BETTY J FAMILY TRUST	22555 RR 12 DRIPPING SPRINGS, TX 78620	206 GATLIN CREEK RD DRIPPING SPRINGS, TX 78620	2500	1133.08	1134.58
R19292	WHISENANT BETTY J FAMILY TRUST	22555 RR 12 DRIPPING SPRINGS, TX 78620	206 GATLIN CREEK RD DRIPPING SPRINGS, TX 78620	136460	1135.30	1136.80
R19210	BOWEN PARTNERS LTD	MT GAINOR RD DRIPPING SPRINGS, TX 78620	3700 MT GAINOR RD DRIPPING SPRINGS, TX 78620	1500	1150.44	1151.94
R19202	DUNNAM THOMAS & MARGARET	MT GAINOR RD DRIPPING SPRINGS, TX 78620	3200 MOUNT GAINOR RD DRIPPING SPRINGS, TX 78620	125550	1141.43	1142.93
R19202	DUNNAM THOMAS & MARGARET	MT GAINOR RD DRIPPING SPRINGS, TX 78620	3200 MOUNT GAINOR RD DRIPPING SPRINGS, TX 78620	4800	1146.98	1148.48
R13638	BOONE DAVID G & MARGARET W	4901 MT GAINER RD DRIPPING SPRINGS, TX 78620	P O BOX 1075 DRIPPING SPRINGS, TX 78620-0785	27500	1208.35	1209.85
R17496	SPENCER, WINIFRED ANN	3650 PURSLEY RD DRIPPING SPRINGS, TX 78620	3550 PURSLEY RD DRIPPING SPRINGS, TX 78620	7400	1241.30	1242.80
R115712	FREESTONE RANCH LP	3500 PURSLEY RD DRIPPING SPRINGS, TX 78620	9508 JOLLYVILLE RD STE 101 AUSTIN, TX 78759	13630	1252.75	1254.25
R115712	FREESTONE RANCH LP	3500 PURSLEY RD DRIPPING SPRINGS, TX 78620	9508 JOLLYVILLE RD STE 101 AUSTIN, TX 78759	2007010	1262.72	1267.72
R11130	WILSON R B JR (LIFE ESTATE)	20601 W FM 150 DRIFTWOOD, TX 78619	1221 S MOPAC EXPRESSWAY STE 400 AUSTIN, TX 78746-7650	133500	1008.18	1009.68
R11168	SMITH, CHARLIE J	1150 E GATLIN CREEK RD DRIFTWOOD, TX 78619	1150 E GATLIN CREEK RD DRIFTWOOD, TX 78619	38020	1032.95	1034.45
R11061	FORD, CATHERINE M	1600 E GATLIN CREEK RD DRIFTWOOD, TX 78619	1600 E GATLIN CREEK RD DRIFTWOOD, TX 78619	83240	1031.87	1033.37
R32087	FELTON, THOMAS R, Jr.	Stoney Brook Ln Driftwood, TX 78619	P O BOX 183 WIMBERLEY, TX 78676-0183	44120	1052.56	1054.06
R32079	MYERS, JEFFREY VAN	3400 ELDER HILL RD DRIFTWOOD, TX 78619	P O BOX 130 DRIFTWOOD, TX 78619-0130	73020	1056.18	1057.68
R32079	MYERS, JEFFREY VAN	3400 ELDER HILL RD DRIFTWOOD, TX 78619	P O BOX 130 DRIFTWOOD, TX 78619-0130	19000	1057.88	1059.38
R32077	TEAGUE RAYMOND F & DIANA	3500 ELDER HILL RD DRIFTWOOD, TX 78619	3500 ELDER HILL RD DRIFTWOOD, TX 78619	98840	1055.99	1057.49
R32076	HUNTER LARRY & MARY J	3600 ELDER HILL RD DRIFTWOOD, TX 78619	P O BOX 1292 EDINBURG, TX 78540-1292	144210	1057.89	1059.39
R32075	LIEGEL JEFFREY & JULIA	3700 ELDER HILL RD DRIFTWOOD, TX 78619	3700 ELDER HILL RD DRIFTWOOD, TX 78619	76250	1065.79	1067.29
R20133	SHULTS RODERICK L FAMILY TRUST	3800 ELDER HILL RD DRIFTWOOD, TX 78619	604 LITTLE OAK DR AUSTIN, TX 78753	22340	1062.53	1064.03
R19275	ROCKY LEDGE ARABIANS	301 GATLIN CREEK RD DRIPPING SPRINGS TX	614 ROCKY LEDGE DR AUSTIN, TX 78746	2000	1108.44	1109.94
R14363	STORM RANCH PARTNERSHIP LTD	GATLIN CREEK RD DRIPPING SPRINGS, TX 78620	2501 GATLIN CREEK RD DRIPPING SPRINGS, TX 78620	7900	1115.85	1117.35
R14363	STORM RANCH PARTNERSHIP LTD	GATLIN CREEK RD DRIPPING SPRINGS, TX 78620	2501 GATLIN CREEK RD DRIPPING SPRINGS, TX 78620	900	1119.20	1120.70
R14296	BEYER KENNETH R & PATRICIA	2265 GATLIN CREEK RD DRIPPING SPRINGS, TX 78620	2265 GATLIN CREEK RD DRIPPING SPRINGS, TX 78620	233390	1185.97	1187.47
R123058	DAVIS LARRY S & SUSAN F	19401 FM 150 DRIFTWOOD, TX 78619	19401 FM 150 DRIFTWOOD, TX 78619	209890	996.02	997.52
R19854	WARD JAMES T & JANET K	19301 W FM 150 DRIFTWOOD, TX 78619	19301 W FM 150 DRIFTWOOD, TX 78619	208330	997.95	999.45
R12384	CITY OF SAN MARCOS	RIVER RD SAN MARCOS, TX 78666	630 E HOPKINS ST SAN MARCOS, TX 78666	22482	994.75	996.25
R11116	DARDEN HILL LLC	406 DARDEN HILL RD DRIFTWOOD, TX 78619	3939 BEE CAVE RD BLDG C-100 AUSTIN, TX 78746	9690	999.73	1001.23
R19372	SMITH, JOHN G	703 DARDEN HILL RD DRIFTWOOD, TX 78619	703 DARDEN HILL RD DRIFTWOOD, TX 78619	138970	998.27	999.77
R11122	PORTER FAMILY TRUST	179 DARDEN HILL RD DRIPPING SPRINGS, TX 78620	2722 BARTON SKYWAY 2722 BARTON SKYWAY	80910	1028.72	1030.22
R33338	DAVIS WESLEY K & ANGELA K	912 E CREEK DR DRIPPING SPRINGS, TX 78620	912 E CREEK DR DRIPPING SPRINGS, TX 78620	283360	1125.31	1126.81
R20562	HERCZOG, DEBORAH A	19200 W FM 150 DRIFTWOOD, TX 78619	19200 W FM 150 DRIFTWOOD, TX 78619	120070	989.22	990.72
R20561	JOHNSON, BARBARA H	19050 W FM 150 DRIFTWOOD, TX 78619	2000 CREEK RD DRIPPING SPRINGS, TX 78620	7340	993.53	995.03
R20561	JOHNSON, BARBARA H	19050 W FM 150 DRIFTWOOD, TX 78619	2000 CREEK RD DRIPPING SPRINGS, TX 78620	97090	987.89	989.39
R20561	JOHNSON, BARBARA H	19050 W FM 150 DRIFTWOOD, TX 78619	2000 CREEK RD DRIPPING SPRINGS, TX 78620	5760	998.24	999.73
R20559	MORGAN DENA ELAINE	19022 W FM 150 DRIFTWOOD, TX 78619	233 TURTLE LN SEGUIN, TX 78155-3142	185480	986.05	987.55
R20557	BROWN, MITCHELL	19000 W FM 150 DRIFTWOOD, TX 78619	19000 W FM 150 DRIFTWOOD, TX 78619	134760	996.17	997.67
R19859	SHARMAN RALPH S JR & PAMELA G	1200 DARDEN HILL RD DRIFTWOOD, TX 78619	P O BOX 1260 DRIPPING SPRINGS, TX 78620-1260	270530	991.14	992.64
R20558	BROWN, MITCHELL	19000 W FM 150 DRIFTWOOD, TX 78619	19000 W FM 150 DRIFTWOOD, TX 78619	34250	986.79	988.28
R91520	COMPTON JEREMY R	431 ONION CREEK LN DRIFTWOOD, TX 78619	710 NE 3RD ST ANDREWS, TX 79714-4108	355080	990.30	991.80
R91522	PERCEVAL IDA	461 ONION CREEK LN DRIFTWOOD, TX 78619	461 ONION CREEK LN DRIFTWOOD, TX 78619	323390	991.41	992.91
R91524	JACOB CHARLES C & MARGARET J	501 ONION CREEK LN DRIFTWOOD, TX 78619	501 ONION CREEK LN DRIFTWOOD, TX 78619	281220	991.68	993.18
R26597	AULICK MICHAEL R & MCGAUGHY REBECCA A	700 CREEKWOOD DR DRIFTWOOD, TX 78619	700 CREEKWOOD DR DRIFTWOOD, TX 78619	131620	984.88	986.38
R26597	AULICK MICHAEL R & MCGAUGHY REBECCA A	700 CREEKWOOD DR DRIFTWOOD, TX 78619	700 CREEKWOOD DR DRIFTWOOD, TX 78619	13820	987.87	989.37
R70559	GRAVES, CATHERINE	1000 CREEKWOOD DR DRIFTWOOD, TX 78619	P O BOX 160970 AUSTIN, TX 78716-0970	39980	976.80	978.30
R26599	PETERSON LOIS THORLACIUS & BETZ MICHAEL RAY	900 CREEKWOOD DR DRIFTWOOD, TX 78619	900 S CREEKWOOD DR DRIFTWOOD, TX 78619-9706	115540	985.13	986.63
R26602	BRYANT JACK R & DEBRA D	903 CREEKWOOD DR DRIFTWOOD, TX 78619	168 LA GROSS WAY CHATSWORTH, CA 91311-7013	269110	979.70	981.20
R26605	WILLS JASON	719 S CREEKWOOD DR DRIFTWOOD, TX 78619	33 LONG CREEK RD AUSTIN, TX 78737-9303	174510	980.24	981.74
R26608	BRANDT PAUL J	657 S CREEKWOOD DR DRIFTWOOD, TX 78619	657 S CREEKWOOD DR DRIFTWOOD, TX 78619	151040	976.47	977.97
R26604	RAY, CHARLES E, Jr	725 CREEKWOOD DR DRIFTWOOD, TX 78619	725 CREEKWOOD DR DRIFTWOOD, TX 78619	94950	980.80	982.30
R26607	CROSSETT GREGORY L & SHERI	681 S CREEKWOOD DR DRIFTWOOD, TX 78619	681 S CREEKWOOD DR DRIFTWOOD, TX 78619	145130	978.52	980.02
R26611	HARMESON RICHARD A & ELIZABETH	601 S CREEKWOOD DR DRIFTWOOD, TX 78619	601 S CREEKWOOD DR DRIFTWOOD, TX 78619	239670	967.90	969.40
R26609	MILLER HARRY A IV	609 S CREEKWOOD DR DRIFTWOOD, TX 78619	609 S CREEKWOOD DR DRIFTWOOD, TX 78619	222820	969.29	970.79
R38031	BLATT HOWARD E & CHARLA L	303 S CREEKWOOD DR DRIFTWOOD, TX 78619	9125 MANCHACA RD AUSTIN, TX 78748	112710	976.08	977.58
R38035	GANTT, BRIAN D	1670 DARDEN HILL RD DRIFTWOOD, TX 78619	1670 DARDEN HILL RD DRIFTWOOD, TX 78619	74650	978.28	979.78
R38034	GANTT, BRIAN D	1670 DARDEN HILL RD DRIFTWOOD, TX 78619	1670 DARDEN HILL RD DRIFTWOOD, TX 78619	2280	977.66	979.16
R35499	JENSEN RICHARD M & LAUREL A	1102 QUAIL RIDGE DR DRIPPING SPRINGS, TX 78620	1102 QUAIL RIDGE DR DRIPPING SPRINGS, TX 78620	15000	1034.13	1035.63
R12573	SHERRILL PAUL K & SHERRILL DANNY JOE	18315 FM 1826 DRIFTWOOD, TX 78619	2625 OAK RIDGE DR SPICEWOOD, TX 78669-6669	329050	962.64	964.14
R12534	ROBERTS, M SCOTT	FM 1826 DRIFTWOOD, TX 78619	PO BOX 311 DRIFTWOOD, TX 78619-0311	118800	948.75	950.25
R9307	CAMP BEN MCCULLOCH INC	18301 FM 1826 DRIFTWOOD, TX 78619	P O BOX 23 DRIFTWOOD, TX 78619-0023	20000	952.85	954.35

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R12548	CARR FAMILY PARTNERSHIP LTD	15100 W FM 150 DRIFTWOOD, TX 78619	4826 HIGHWAY 71 E DEL VALLE, TX 78617-3217	319670	954.05	955.55
R12560	KANETZKY DON & MARTY	11161 FM 967 BUDA, TX 78610	11161 FM 967 BUDA, TX 78610	246700	946.08	947.58
R18371	TEMPLETON, BOBBIE	1655 ELDER HILL RD DRIFTWOOD, TX 78619	P O BOX 99 DRIFTWOOD, TX 78619-0099	22450	1058.44	1059.94
R18371	TEMPLETON, BOBBIE	1655 ELDER HILL RD DRIFTWOOD, TX 78619	P O BOX 99 DRIFTWOOD, TX 78619-0099	166910	1068.34	1069.84
R11671	CYPRESS SPRINGS RANCH LP	11159 FM 967 DRIFTWOOD, TX 78619	P O BOX 246 DRIFTWOOD, TX 78619-0246	78670	941.82	943.32
R38670	URBAN LARRY J & KAREN O	2500 S RAINBOW RANCH RD WIMBERLEY, TX 78676	2725 SWANTNER LN CORPUS CHRISTI, TX 78404	567710	1089.81	1091.31
R11669	ZIMMERMAN, FRANK W, Jr	11300 FM 150	P O BOX 229 DRIFTWOOD, TX 78619-0229	21260	909.14	910.64
R11668	SABER VENTURES & THE LAND OFFICE INC	11304 FM 150 DRIFTWOOD, TX 78619	13200 BEE CAVE PARKWAY AUSTIN, TX 78738	235880	878.54	880.04
R11668	SABER VENTURES & THE LAND OFFICE INC	11304 FM 150 DRIFTWOOD, TX 78619	13200 BEE CAVE PARKWAY AUSTIN, TX 78738	30000	886.23	887.73
R16381	HARKINS JOE TIMOTHY & CATHY GAIL	BILL KUYKENDALL RD KYLE, TX 78640	P O BOX 705 BUDA, TX 78610-0705	129030	856.40	857.90
R16380	PINTO, MARTHA L	100 BILL KUYKENDALL RD KYLE, TX 78640	100 BILL KUYKENDALL RD KYLE, TX 78640	165270	862.70	864.20
R17073	COWDEN, JAMES N	FM 150	600 CONGRESS AVE 15TH FLR #1500 AUSTIN, TX 78701	23740	886.79	888.29
R105648	SIERRA WEST SECTION I	375 BARBERRY PARK DRIFTWOOD, TX 78619	375 BARBERRY PARK DRIFTWOOD, TX 78619	22640	909.49	910.99
R71748	JONES, JILL REGA	501 YORK CREEK RD WIMBERLEY, TX 78676	501 YORK CREEK RD WIMBERLEY, TX 78676	63950	998.25	999.75
R71748	JONES, JILL REGA	501 YORK CREEK RD WIMBERLEY, TX 78676	501 YORK CREEK RD WIMBERLEY, TX 78676	32200	997.23	998.73
R40905	SPINI DONALD T & JOY A	401 YORK CREEK RD DRIFTWOOD, TX 78619	401 YORK CREEK RD DRIFTWOOD, TX 78619	5010	1002.56	1004.06
R40906	OGDEN, DARRYL RAY	301 YORK CREEK RD DRIFTWOOD, TX 78619	301 YORK CREEK RD DRIFTWOOD, TX 78619	4500	1005.02	1006.52
R40907	MULCAHY CHRISTINE E REVOCABLE TRUST	201-A YORK CREEK RD Unit A DRIFTWOOD TX 78619	196 LONELY PINE CV DRIFTWOOD, TX 78619-4353	22140	1006.16	1007.66
R41001	WALLACE, VAN R	97 YORK CREEK RD DRIFTWOOD, TX 78619	251 WIMBERLEY OAKS DR WIMBERLEY, TX 78676-4617	17880	1012.51	1014.01
R41001	WALLACE, VAN R	97 YORK CREEK RD DRIFTWOOD, TX 78619	251 WIMBERLEY OAKS DR WIMBERLEY, TX 78676-4617	1000	1017.42	1018.92
R40961	RICHEY DAVID M & FRANCIE WHITE	YORK CREEK RD DRIFTWOOD, TX 78619	86 YORK CREEK DR DRIFTWOOD, TX 78619	63230	1019.88	1021.38
R41058	STOCKTON KEITH N & DEBBY	60 YORK CREEK RD DRIFTWOOD, TX 78619	60 YORK CREEK RD DRIFTWOOD, TX 78619	57990	1038.91	1040.41
R41056	THYBERG GORDON M & KIM B	58 YORK CREEK RD WIMBERLEY, TX 78676	58 YORK CREEK RD WIMBERLEY, TX 78676	180880	1046.05	1047.55
R91044	SMITH RICHARD A	1061 CLARK CV BUDA, TX 78610	1061 CLARK CV BUDA, TX 78610	422020	804.16	805.66
R91043	BROSLAT BRUCE D & ROSE M	1041 CLARK CV BUDA, TX 78610	1041 CLARK CV BUDA, TX 78610	326160	804.76	806.26
R91042	ASHLEY, NATALIA	1021 CLARK CV BUDA, TX 78610	1021 CLARK CV BUDA, TX 78610	361620	803.88	805.38
R96832	ARDREY CATHERINE L	506 W BARTLETT DR BUDA, TX 78610	506 W BARTLETT DR BUDA, TX 78610	354710	799.90	801.40
R91031	JONES JUDITH G & LEWIS	601 CLARK CV BUDA, TX 78610	601 CLARK CV BUDA, TX 78610	374120	798.36	799.86
R96830	MCCOMB J KEITH & MICHELLE E	452 W BARTLETT DR BUDA, TX 78610	452 W BARTLETT DR BUDA, TX 78610	326910	798.29	799.79
R91029	WINTERS MEL A & LINDA M	501 CLARK CV BUDA, TX 78610	501 CLARK CV BUDA, TX 78610	333810	794.96	796.46
R91028	DICKEY, FRANK	451 CLARK CV BUDA, TX 78610	451 CLARK CV BUDA, TX 78610	490510	797.81	799.31
R91059	LEE ROBERT C III & TANJA	250 CREEKSIDE DR BUDA, TX 78610	250 CREEKSIDE DR BUDA, TX 78610	321310	799.08	800.58
R91060	PERDUE DONALD L & FLABIA	300 CREEKSIDE DR BUDA, TX 78610	300 CREEKSIDE DR BUDA, TX 78610	323470	800.54	802.04
R91049	LAYTON JEFFREY S & KIMBERLY A	600 CLARK CV BUDA, TX 78610	600 CLARK CV BUDA, TX 78610	385600	799.92	801.42
R93104	SCALLON, CHRIS	376 W BARTLETT DR BUDA, TX 78610	376 W BARTLETT DR BUDA, TX 78610	372440	791.34	792.84
R87539	ERWIN MARK E & CHARLOTTE	411 CLARK CV BUDA, TX 78610	411 CLARK CV BUDA, TX 78610	284290	796.95	798.45
R87528	WEYNANDT, JACK	401 CLARK CV BUDA, TX 78610	401 CLARK CV BUDA, TX 78610	308480	794.13	795.63
R93102	URESTI RUSTY G & MADELYN	292 W BARTLETT DR BUDA, TX 78610	2102 HAZELTINE LN AUSTIN, TX 78747	510560	789.93	791.43
R93106	MONTGOMERY ROGER & PEREZ AMY	130 RICHARDS DR BUDA, TX 78610	130 RICHARDS DR BUDA, TX 78610	383860	795.82	797.32
R93101	QUICK JIMMY B & SHERI L	238 W BARTLETT DR BUDA, TX 78610	238 W BARTLETT DR BUDA, TX 78610	239430	791.70	793.20
R87537	RUTLEDGE, BARBARA ANN	321 CLARK CV BUDA, TX 78610	321 CLARK CV BUDA, TX 78610	325270	795.35	796.85
R87536	BARKLEY CLIFTON W & MARY A	311 CLARK CV BUDA, TX 78610	311 CLARK CV BUDA, TX 78610	258840	793.48	794.98
R87535	OLMSTEAD DALE & BARBARA	301 CLARK CV BUDA, TX 78610	301 CLARK CV BUDA, TX 78610	337710	793.22	794.72
R87548	SARBA BARRY A & DEBORAH L	300 CLARK CV BUDA, TX 78652	300 CLARK CV BUDA, TX 78652	347600	796.13	797.63
R87549	AURORA LOAN SERVICES LLC	210 CLARK CV BUDA, TX 78652	PO BOX 1706 SCOTTSBLUFF, NE 69363-1706	287640	793.93	795.43
R87550	VAUGHN ROGER D & TRISHA J	200 CLARK CV BUDA, TX 78610	200 CLARK CV BUDA, TX 78610	265250	794.31	795.81
R87533	BERLIN CRAIG J & LUANNE	211 CLARK CV BUDA, TX 78610	116 CRESTVIEW RD WEST POINT, GA 31833	296820	791.77	793.27
R87532	RAINES LEE THOMAS	201 CLARK CV BUDA, TX 78610	201 CLARK CV BUDA, TX 78610	326060	789.89	791.39
R87531		121 CLARK CV BUDA, TX 78610	121 CLARK CV BUDA, TX 78610	0	786.95	788.45
R87530	RUTHERFORD, MIKE G, Jr	711 RUBY RANCH RD BUDA, TX 78610	711 RUBY RANCH RD BUDA, TX 78610	279790	791.30	792.80
R87510	CAMPO, MARY JO	120 ARMSTRONG CV BUDA, TX 78610	120 ARMSTRONG CV BUDA, TX 78610	314450	786.85	788.35
R87509	NAPER MATTHEW W & SARAH L	130 ARMSTRONG CV BUDA, TX 78610	130 ARMSTRONG CV BUDA, TX 78610	343280	786.01	787.51
R87508	AHMED MUMTAZ & AGLALA	140 ARMSTRONG CV BUDA, TX 78610	140 ARMSTRONG CV BUDA, TX 78610	272650	785.56	787.06
R87507	MOORE ARTHUR W & GOODMAN STEPHANIE	150 ARMSTRONG CV BUDA, TX 78610	150 ARMSTRONG CV BUDA, TX 78610	239770	784.72	786.22
R87506	ANDERSON CHARLES P & MARTHA A (LIFE ESTATE)	160 ARMSTRONG CV BUDA, TX 78610	160 ARMSTRONG CV BUDA, TX 78610	230240	785.43	786.93
R93151	FOLLETT SCOTT D & SALLY E	288 E BARTLETT DR BUDA, TX 78610	520 MATZIG CV BUDA, TX 78610	49110	775.75	777.25
R93151	FOLLETT SCOTT D & SALLY E	424 E BARTLETT DR BUDA, TX 78610	520 MATZIG CV BUDA, TX 78610	35200	777.14	778.64
R63273	FOLLETT SCOTT D & SALLY E	520 MATZIG CV BUDA, TX 78610	520 MATZIG CV BUDA, TX 78610	6900	778.71	780.21
R63273	FOLLETT SCOTT D & SALLY E	520 MATZIG CV BUDA, TX 78610	520 MATZIG CV BUDA, TX 78610	147560	778.54	780.04
R87504	MEYER GRAYDEN D & ELAINE DIANE	141 ARMSTRONG CV BUDA, TX 78610	141 ARMSTRONG CV BUDA, TX 78610	292730	788.17	789.67
R87518	HOWELL GLORIA E	220 HUMPHREYS BUDA, TX 78610	220 HUMPHREYS BUDA, TX 78610	254440	791.69	793.19
R87519	HOLDER KATHLEEN A & HILTON JAMES D	300 HUMPHRIES DR BUDA, TX 78610	300 HUMPHRIES DR BUDA, TX 78610	247390	793.34	794.84

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R87517	DORSETT PATRICK & KELLI	210 HUMPHREYS BUDA, TX 78610	210 HUMPHREYS BUDA, TX 78610	366390	791.98	793.48
R87522	BROWN, CHRIS	330 HUMPHREYS BUDA, TX 78610	330 HUMPHREYS BUDA, TX 78610	211510	797.00	798.50
R87523	HOLLUB MERLE J & GILBERT H	340 HUMPHREYS DR BUDA, TX 78610	340 HUMPHREYS DR BUDA, TX 78610	227960	796.51	798.01
R63269	FOLLETT SCOTT D & SALLY E	500 MATZIG CV BUDA, TX 78610	520 MATZIG CV BUDA, TX 78610	60430	782.91	784.41
R87496	WIER JAMES & CAROLYN	551 RUBY RANCH RD BUDA, TX 78610	551 RUBY RANCH RD BUDA, TX 78610	332430	785.32	786.82
R63242	MCCORD, NORMA M	500 RUBY RANCH RD BUDA, TX 78610	500 RUBY RANCH RD BUDA, TX 78610	262870	796.05	797.55
R63241	GRIZZLE DAVID R & SARA R	410 RUBY RANCH RD BUDA, TX 78610	410 RUBY RANCH RD BUDA, TX 78610	313560	797.24	798.74
R11243	POOL, THOMAS VINCENT	1769 FM 1626 BUDA, TX 78610	1769 FM 1626 BUDA, TX 78610	30270	704.42	705.92
R10051	MCADOO LINDA & WILEY	140 LITTLE POOL RD BUDA, TX 78610	140 LITTLE POOL RD BUDA, TX 78610	75180	711.88	713.38
R10051	MCADOO LINDA & WILEY	140 LITTLE POOL RD BUDA, TX 78610	140 LITTLE POOL RD BUDA, TX 78610	26080	706.50	708.00
R10139	ARTHUR KEVIN & BARBARA	141 LITTLE POOL RD BUDA, TX 78610	P O BOX 370 BUDA, TX 78610-0370	19410	712.69	714.19
R10089	LACKER KATHRYN W	1585 COLE SPRINGS RD BUDA, TX 78610	1585 COLE SPRINGS RD BUDA, TX 78610	81060	712.06	713.56
R10652	TRUDEAU FRED STEVEN & PAULA	855 COLE SPRINGS RD BUDA, TX 78610	855 COLE SPRINGS RD BUDA, TX 78610	291420	700.23	701.73
R10652	TRUDEAU FRED STEVEN & PAULA	855 COLE SPRINGS RD BUDA, TX 78610	855 COLE SPRINGS RD BUDA, TX 78610	27180	701.33	702.83
R10663	REVEDA DAN & HATTIE ESTATES OF	570 COLE SPRINGS RD BUDA, TX 78610	1730 BUNCH RD AUSTIN, TX 78721	23640	696.02	697.52
R10727	WATSON, JOHN ALLEN, Jr	BLUFF ST BUDA, TX 78610	P O BOX 740 BUDA, TX 78610-0740	26690	690.95	692.45
R10663	REVEDA DAN & HATTIE ESTATES OF	570 COLE SPRINGS RD BUDA, TX 78610	1730 BUNCH RD AUSTIN, TX 78721	16540	696.56	698.06
R10660	HAYS COUNTY OF	FM 2770 BUDA, TX 78610	302 W SAN ANTONIO ST SAN MARCOS, TX 78666	97400	698.18	699.68
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	693.30	694.80
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	694.59	696.09
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	694.86	696.36
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	694.35	695.85
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	695.55	697.05
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	695.06	696.56
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	696.33	697.83
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	696.19	697.69
R33180	ONION CREEK LTD	300 BLUFF ST BUDA, TX 78610	P O BOX 1357 ARANSAS PASS, TX 78335-1357	44360	696.46	697.96
R10683	ROMERO, LUCIA	406 BARTON'S CROSSING BUDA, TX 78610	P O BOX 565 BUDA, TX 78610-0565	41440	690.04	691.54
R10681	RODRIGUEZ, ONESIMO	404 BARTON'S CROSSING (OFF 2770) BUDA, TX 78610	404 BARTON'S CROSSING (OFF 2770) BUDA, TX 78610	59750	695.65	697.15
R10712	BRINKLEY MARK A & NANCY L	410 JACK C HAYS TRL (FM 2770) BUDA, TX 78610	P O BOX 1343 BUDA, TX 78610-1343	113290	697.05	698.55
R10721	ROACH, CLYDE	204 BLUFF ST BUDA, TX 78610	P O BOX 338 BUDA, TX 78610-0338	121520	691.30	692.80
R36418	GOOD SHEPHERD LUTHERN BRETHERN CHURCH OF BUDA	401 FM 967 BUDA, TX 78610	P O BOX 665 BUDA, TX 78610-0665	0	685.48	686.98
R10793	BUDA MAN LTD	111 OLD BLACK COLONY RD BUDA, TX 78610	P O BOX 1620 BUDA, TX 78610-1620	75600	692.82	694.32
R106367	BUDA ELEMENTARY SCHOOL	LIVE OAK BUDA, TX 78610	300 FM 967 BUDA, TX 78610	0	684.33	685.83
R10732	COLLINS, LYDIA Y	314 SAN ANTONIO ST BUDA, TX 78610	P O BOX 770 BUDA, TX 78610-0770	12450	688.77	690.27
R70018	MARKS, KEITH W	190 MARKS OVER LOOK BUDA, TX 78610	190 MARKS OVER LOOK BUDA, TX 78610	92390	676.29	677.79
R10740	BURRON KIMBERLEY	901 GARISON BUDA, TX 78610	400 HOSMER BLVD WINNIPEG, MANITOBA CANADA, R3P0H7	20830	678.51	680.01
R60054	GOEBLER, TIM A	102 N NIGHTHAWK CIR BUDA, TX 78610	P O BOX 112 BUDA, TX 78610-0112	187180	674.55	676.05
R92663	BROWN BEN R & TERRI D	701 JERRY'S LN BUDA, TX 78610	701 JERRY'S LN BUDA, TX 78610	121030	773.40	774.90
R92663	BROWN BEN R & TERRI D	701 JERRY'S LN BUDA, TX 78610	701 JERRY'S LN BUDA, TX 78610	4500	773.20	774.70
R32609	ANDERSON STEPHEN P & DEBORA P	620 MAYBROOK DR BUDA, TX 78610	620 MAYBROOK DR BUDA, TX 78610	181320	770.66	772.16
R32608	KOTLINSKI WALTER J JR & SHIRLEY A	610 MAYBROOK DR BUDA, TX 78610	610 MAYBROOK DR BUDA, TX 78610	4430	769.66	771.16
R32607	HAYES DONALD T & JENNIFER S	600 MAYBROOK BUDA, TX 78610	600 MAYBROOK BUDA, TX 78610	174570	769.19	770.69
R32603	NELSON JOHN G & ESPERANZA	430 MAYBROOK DR BUDA, TX 78610	430 MAYBROOK DR BUDA, TX 78610	7810	769.22	770.72
R32602	GARLOCK CHAUKY & JENNIFER	420 MAYBROOK DR BUDA, TX 78610	420 MAYBROOK DR BUDA, TX 78610	163610	768.94	770.44
R32592	SAN LUIS RAMON & JERRIE DENISE	311 DRYDEN LN BUDA, TX 78610	311 DRYDEN LN BUDA, TX 78610	172050	770.66	772.16
R32593	PEREZ DELFINO V & BERNABE C	305 DRYDEN LN BUDA, TX 78610	305 DRYDEN LN BUDA, TX 78610	190360	769.84	771.34
R32594	PERKINS CLIFFORD M & VIRGINIA L	301 DRYDEN LN BUDA, TX 78610	301 DRYDEN LN BUDA, TX 78610	173630	770.20	771.70
R32595	TORRES PAUL R & CAROLYN L	209 DRYDEN LN BUDA, TX 78610	209 DRYDEN LN BUDA, TX 78610	140780	769.83	771.33
R32600	SMITH, CHERYL RENEE	400 MAYBROOK DR BUDA, TX 78610	400 MAYBROOK DR BUDA, TX 78610	188620	768.51	770.01
R32596	VANNATTER MARTIN W & JULIA J	205 DRYDEN LN BUDA, TX 78610	205 DRYDEN LN BUDA, TX 78610	178460	769.45	770.95
R32597	LONG MATTHEW	201 DRYDEN LN BUDA, TX 78610	201 DRYDEN LN BUDA, TX 78610	171940	768.89	770.39
R32598	PARTIN BOBBY JR & PATRIZIA	105 DRYDEN LN BUDA, TX 78610	105 DRYDEN LN BUDA, TX 78610	149580	768.78	770.28
R32599	ALDRIDGE CHRISTOPHER C & JEAN N	101 DRYDEN LN BUDA, TX 78610	101 DRYDEN LN BUDA, TX 78610	164340	769.11	770.61
R11382	HAYS COUNTY	101 LAKEWOOD DR BUDA, TX 78610	111 E SAN ANTONIO ST SAN MARCOS, TX 78666-5534	158280	681.91	683.41
R23608	JONES BOBBY J & JOAN L	2005 CHAPARRAL RD MANCHACA, TX 78652	2005 CHAPARRAL RD MANCHACA, TX 78652	277000	727.46	728.96
R23606	REEVES LINDA REV LIVING TRUST	2000 CHAPARRAL RD MANCHACA, TX 78652	P O BOX 507 MANCHACA, TX 78652-0507	138360	724.15	725.65
R70732	TRINKAUS CLIFFORD J & KIM M	13400 COPPER HILLS DR MANCHACA, TX 78652	13400 COPPER HILLS DR MANCHACA, TX 78652	237860	735.79	737.29
R70731	YOUNG ALAN & VERONICA	13402 COPPER HILLS DR MANCHACA, TX 78652	13402 COPPER HILLS DR MANCHACA, TX 78652	277000	736.45	737.95
R70730	HUSSEY JAMES H & BEVERLY A	13404 COPPER HILLS DR MANCHACA, TX 78652	13404 COPPER HILLS DR MANCHACA, TX 78652	243980	735.71	737.21
R71729	KIMBRELL, CHARLES D	13406 COPPER HILLS DR MANCHACA, TX 78652	13406 COPPER HILLS DR MANCHACA, TX 78652	216450	738.70	740.20
R24837	WOOLVERTON AARON & NATALIE L	13408 COPPER HILLS DR MANCHACA, TX 78652	13408 COPPER HILLS DR MANCHACA, TX 78652	231030	737.53	739.03

Habitable Structures Inventory

Property ID	Property Owner	Property Address	Owner Address	Improvement Value	Elevation	Elevation plus Slab
R24836	AKER CHRIS C & DEBORAH	13410 COPPER HILLS DR MANCHACA, TX 78652	13410 COPPER HILLS DR MANCHACA, TX 78652	186690	738.20	739.70
R24835	CROUCH, SI T	13412 COPPER HILLS MANCHACA, TX 78652	13412 COPPER HILLS MANCHACA, TX 78652	195710	738.54	740.04
R24834	CANTU PAMELA	13414 COPPER HILLS DR MANCHACA, TX 78625	13414 COPPER HILLS DR MANCHACA, TX 78625	241330	737.84	739.34
R24833	JAMES RANDALL & TERRY	13416 COPPER HILLS DR MANCHACA, TX 78652	13416 COPPER HILLS DR MANCHACA, TX 78652	197340	737.77	739.27
R70728	COBURN JOHN M & ROBIN	13418 COPPER HILLS MANCHACA, TX 78652	13418 COPPER HILLS MANCHACA, TX 78652	173420	739.51	741.01
R70727	LUBINA, THOMAS J	13500 COPPER HILLS DR MANCHACA, TX 78652	9300 S IH 35 STE A-500 AUSTIN, TX 78748	168800	739.31	740.81
R70726	STIRTON, MICHAEL GREGORY	13502 COPPER HILLS DR MANCHACA, TX 78652	13502 COPPER HILLS DR MANCHACA, TX 78652	169720	739.89	741.39
R70725	GERGEN, JOSEPH P	13504 COPPER HILLS DR MANCHACA, TX 78652	13504 COPPER HILLS DR MANCHACA, TX 78652	205810	742.86	744.36
R42756	ZOCH JULIE M & MCELFFRESH GEORGE D	3903 CATTLEMAN DR MANCHACA TX	3903 CATTLEMAN DR MANCHACA TX	141270	743.33	744.83
R42759	SHEPPARD-SANDERS ANDREA RENEE & SANDERS STACY GENE	3911 CATTLEMAN DR MANCHACA, TX 78652	3911 CATTLEMAN DR MANCHACA, TX 78652	156970	745.45	746.95
R42760	ALBIN RITA C & NORBERT J	3913 CATTLEMAN DR MANCHACA, TX 78652	3913 CATTLEMAN DR MANCHACA, TX 78652	179470	744.32	745.82
R42758	GARCIA RICHARD C & CHRISTINE C	3909 CATTLEMAN MANCHACA, TX 78652	1N535 CENTER AVE WEST CHICAGO, IL 60185	149290	743.19	744.69
R42757	WOLFGRAMM STORMEE ELISE & MAURER JEFFREY	3905 CATTLEMAN MANCHACA, TX 78652	3905 CATTLEMAN MANCHACA, TX 78652	131740	741.68	743.18
R23807	POOL DIANA K & DE LA TORRE JORGE A	2800 ROBIN RD MANCHACA, TX 78652	2800 ROBIN RD MANCHACA, TX 78652	185010	756.37	757.87
R23806	MADEN, THERESA	2802 ROBIN RD MANCHACA, TX 78652	2802 ROBIN RD MANCHACA, TX 78652	134650	757.92	759.42
R23805	MCLAUGHLIN PHILLIP & KATHLEEN	2804 ROBIN RD MANCHACA, TX 78652	2804 ROBIN RD MANCHACA, TX 78652	170100	756.91	758.41
R20344	GURLEY GREGORY E & KELLY M	2900 HUMMINGBIRD RD MANCHACA, TX 78652	2900 HUMMINGBIRD RD MANCHACA, TX 78652	135990	761.00	762.50
R20356	DENSON-KRATZER SCOT D &	1001 LIVE OAK DR MANCHACA, TX 78652	1001 LIVE OAK DR MANCHACA, TX 78652	187920	756.78	758.28
R20343	NORTHEAST HAYS COUNTY FIRE CONTROL DISTRICT	CHAPARRAL RD MANCHACA, TX 78652	P O BOX 782 BUDA, TX 78610-0782	19540	763.33	764.83
R20372	PFLUGER DUANE & DEBORAH	3001 CHAPARRAL RD MANCHACA, TX 78652	3001 CHAPARRAL RD MANCHACA, TX 78652	110650	762.59	764.09
R20371	SVRCEK DAVID & ELZNER HEATHER	1003 SPANISH OAK TRL MANCHACA, TX 78652	1003 SPANISH OAK TRL MANCHACA, TX 78652	164860	762.86	764.36
R20354	JANKE LLOYD N & REBECCA	1005 LIVE OAK DR MANCHACA, TX 78652	1005 LIVE OAK DR MANCHACA, TX 78652	180560	759.54	761.04
R20364	ARMENTA RICHARD R & KATHLEEN F	1004 LIVE OAK DR MANCHACA, TX 78652	1004 LIVE OAK DR MANCHACA, TX 78652	131420	762.60	764.10
R20366	OLSEN ERIK K	1002 POST OAK PATH MANCHACA, TX 78652	100 MISTI LN DRIFTWOOD, TX 78619-5114	121500	766.37	767.87
R20352	WEAVER JAMES D & ANNA M	1009 LIVE OAK DR MANCHACA, TX 78652	1009 LIVE OAK DR MANCHACA, TX 78652	166440	762.00	763.50
R20351	KNOWLTON BRIDGET E & CLINT E	1101 LIVE OAK DR MANCHACA, TX 78652	4100 W SLAUGHTER LN APT #6205 AUSTIN, TX 78749-3894	207810	759.76	761.26
R20350	WORLDS JEREMIN	2001 LIVE OAK DR MANCHACA, TX 78652	2001 LIVE OAK DR MANCHACA, TX 78652	245190	760.60	762.10
R30038	DILLON DAVID M & MARY KELLY	1000 LIVE OAK LOOP BUDA, TX 78610	1000 LIVE OAK LOOP BUDA, TX 78610	205920	793.82	795.32
R30020	FLORES ADAM E & ESMERALDA G	1101 OAK ARBOR TRL BUDA, TX 78610	1101 OAK ARBOR TRL BUDA, TX 78610	14660	790.63	792.13
R29969	HALL DAVID L & DOROTHY J	1001 LIVE OAK LP BUDA TX 78610	1001 LIVE OAK LP BUDA TX 78610	189820	795.52	797.02
R30035	HALLORAN RANDAL G & JESSICA L & KATHLEEN B	1100 LIVE OAK LP BUDA TX 78610	1100 LIVE OAK LP BUDA TX 78610	237660	797.71	799.21
R30034	SMITH VAUGHN & BRENDA	1104 LIVE OAK LP BUDA TX 78610	1104 LIVE OAK LP BUDA TX 78610	197720	798.70	800.20
R30036	GROSS LARRY & ANNE	1008 LIVE OAK LOOP BUDA, TX 78610	1008 LIVE OAK LOOP BUDA, TX 78610	215590	795.30	796.80
R29968	JOHNSON REVOCABLE LIVING TRUST	16101 OAK GROVE RD BUDA, TX 78610	16101 OAK GROVE RD BUDA, TX 78610	161470	796.02	797.52
R30033	HAMILTON JAMES E & BARBARA G	1108 LIVE OAK LP BUDA TX 78610	1108 LIVE OAK LP BUDA TX 78610	137430	799.42	800.92
R30032	BANISH ROBERT & PAT	1112 LIVE OAK LP BUDA TX 78610	1112 LIVE OAK LP BUDA TX 78610	249350	802.28	803.78
R30030	HOLT MARK & BRENDA	1120 LIVE OAK LP BUDA TX 78610	1120 LIVE OAK LP BUDA TX 78610	296130	804.24	805.74
R30026	TAYLOR, SEAN M	16023 ARBOR TRL BUDA, TX 78610	16023 ARBOR TRL BUDA, TX 78610	138770	800.28	801.78
R30025	HODGES JANET S	16019 ARBOR TRL BUDA, TX 78610	16019 ARBOR TRL BUDA, TX 78610	201900	799.74	801.24
R30028	ROWLEY J M JR & MARTHA	16031 ARBOR TRL BUDA, TX 78610	16031 ARBOR TRL BUDA, TX 78610	239410	800.72	802.22
R30013	GADDY GARY & LORI	LIVE OAK LP BUDA TX 78610	16038 ARBOR TRL BUDA, TX 78610-9379	198550	803.18	804.68
R30012	HANDSEL LINDA R	1132 LIVE OAK LP BUDA TX 78610	1132 LIVE OAK LP BUDA TX 78610	155780	807.07	808.57
R29990	GASPARD STACY SULIK & WALTER JR	1120 RED OAK DR BUDA, TX 78610	1120 RED OAK DR BUDA, TX 78610	287980	809.42	810.92
R30011	ARENZ, TERRY	1136 LIVE OAK LP BUDA TX 78610	1136 LIVE OAK LP BUDA TX 78610	200380	808.51	810.01
R30010	CULLEN MICHAEL J & STACEY L	1138 LIVE OAK LP BUDA TX 78610	1138 LIVE OAK LP BUDA TX 78610	143440	808.63	810.13
R30006	AGUIRRE, RONALD R	1144 LIVE OAK LP BUDA TX 78610	1144 LIVE OAK LP BUDA TX 78610	218280	813.99	815.49
R20591	WHITWORTH WILBUR E & SUSAN M FELDKAMP	4907 TIS AUTUMN CT MANCHACA, TX 78652	4907 TIS AUTUMN CT MANCHACA, TX 78652	178610	747.23	748.73
R20589	MANNING MICHAEL JAMES & EUGENE ROBERT JR	4007 SEPTEMBER SONG DR MANCHACA, TX 78652	13306 RAMROD DR MANCHACA, TX 78652	333240	750.89	752.39
R17611	R BAR C LLC	12707 FM 1826 AUSTIN, TX 78737	8226 BEE CAVES RD STE 200 AUSTIN, TX 78746	4750	829.94	831.44
R94603	GORMAN JOHN J IV & TAMRA I	12707 FM 1826 AUSTIN, TX 78737	8226 BEE CAVES RD STE 200 AUSTIN, TX 78746	172260	840.06	841.56
R94603	GORMAN JOHN J IV & TAMRA I	12707 FM 1826 AUSTIN, TX 78737	8226 BEE CAVES RD STE 200 AUSTIN, TX 78746	439730	840.35	841.85
R17611	R BAR C LLC	12707 FM 1826 AUSTIN, TX 78737	8226 BEE CAVES RD STE 200 AUSTIN, TX 78746	44100	835.45	836.95
R15169	OAKHAVEN, PARTNERS LTD	12711 FM 1826 AUSTIN, TX 78737	12711 FM 1826 AUSTIN, TX 78737	227610	849.20	850.70
R15169	OAKHAVEN, PARTNERS LTD	12711 FM 1826 AUSTIN, TX 78737	12711 FM 1826 AUSTIN, TX 78737	40470	855.19	856.69
R15203	SKAGGS, HAROLD, JR	13600 FM 1826 AUSTIN, TX 78737	13600 FM 1826 AUSTIN, TX 78737	202690	862.88	864.38
R15203	SKAGGS, HAROLD, JR	13600 FM 1826 AUSTIN, TX 78737	13600 FM 1826 AUSTIN, TX 78737	232680	860.90	862.40
R12404	COBB SAM E & DANA L	13751 FM 1826 AUSTIN, TX 78737	13751 FM 1826 AUSTIN, TX 78737	19140	886.74	888.24
R12404	COBB SAM E & DANA L	13751 FM 1826 AUSTIN, TX 78737	13751 FM 1826 AUSTIN, TX 78737	326720	883.22	884.72
R20765	RICHARDSON, PATRICE K	14715 BEAR CREEK PASS AUSTIN, TX 78737	14715 BEAR CREEK PASS AUSTIN, TX 78737	742950	882.55	884.05
R20766	MATTHEWS BRIAN & LESLEE	14705 BEAR CREEK PASS AUSTIN, TX 78737	14705 BEAR CREEK PASS AUSTIN, TX 78737	246940	883.58	885.08
R20765	RICHARDSON, PATRICE K	14715 BEAR CREEK PASS AUSTIN, TX 78737	14715 BEAR CREEK PASS AUSTIN, TX 78737	96000	886.12	887.62
R20769	BOYD ALSTON & BARBARA	14607 BEAR CREEK PASS AUSTIN, TX 78737	14607 BEAR CREEK PASS AUSTIN, TX 78737	7560	883.15	884.65

Habitable Structures Inventory

Property ID	Property Owner	Property Address	Owner Address	Improvement Value	Elevation	Elevation plus Slab
R27489	STEINMAN CHARLES E & DEVINCENT PATRICIA K	13140 FIELDSTONE LP AUSTIN TX 78737	13140 FIELDSTONE LP AUSTIN TX 78737	304300	1035.09	1036.59
R27491	TILTON PETER & NANCY	13160 FIELDSTONE LP AUSTIN TX 78737	13160 FIELDSTONE LP AUSTIN TX 78737	166870	1037.40	1038.90
R27488	TURNEY, KATHY D	13130 FIELDSTONE LP AUSTIN TX 78737-9631	13130 FIELDSTONE LP AUSTIN TX 78737-9631	165100	1027.90	1029.40
R20836	FRECHETTE, JAMES	8504 BEAR CREEK DR AUSTIN TX	8504 BEAR CREEK DR AUSTIN TX	175800	865.02	866.52
R20943	COX, RICHARD W	12710 FM 1826 AUSTIN, TX 78737	12710 FM 1826 AUSTIN, TX 78737	233380	867.15	868.65
R20938	DESPAIN JOEL & ROBIN	8105 N MADRONE TRL AUSTIN, TX 78737	8105 N MADRONE TRL AUSTIN, TX 78737	13824	879.40	880.90
R20916	PRESTON THOMAS R & SCHAEFFER ELIZABETH A	8700 N MADRONE TRL AUSTIN, TX 78737	8700 N MADRONE TRL AUSTIN, TX 78737	446480	917.46	918.96
R113862	THE AUSTIN PET RANCH INC	14425 FM 1826 AUSTIN, TX 78737	14425 FM 1826 AUSTIN, TX 78737	170760	907.93	909.43
R12420	FRIENDSHIP BAPTIST CHURCH INC	14455 FM 1826 AUSTIN, TX 78737	14455 FM 1826 AUSTIN, TX 78737	0	911.23	912.73
R15215	KINNEY, OWEN T	14100 NUTTY BROWN RD AUSTIN, TX 78737	14100 NUTTY BROWN RD AUSTIN, TX 78737	12600	954.49	955.99
R11614	STEARNS, JOEL CLAYTON	13900 NUTTY BROWN RD DRIPPING SPRINGS, TX 78620	10400 WILDWOOD HILLS LN AUSTIN, TX 78737-9203	5000	970.12	971.62
R10683	ROMERO, LUCIA	406 BARTON'S CROSSING BUDA, TX 78610	P O BOX 565 BUDA, TX 78610-0565	24280	694.31	695.81
R70018	MARKS, KEITH W	190 MARKS OVER LOOK BUDA, TX 78610	190 MARKS OVER LOOK BUDA, TX 78610	43900	674.83	676.33
R70018	MARKS, KEITH W	190 MARKS OVER LOOK BUDA, TX 78610	190 MARKS OVER LOOK BUDA, TX 78610	43900	676.27	677.77
R60054	GOEBLER, TIM A	102 N NIGHTHAWK CIR BUDA, TX 78610	P O BOX 112 BUDA, TX 78610-0112	21550	675.64	677.14
R20769	BOYD ALSTON & BARBARA	14607 BEAR CREEK PASS AUSTIN, TX 78737	14607 BEAR CREEK PASS AUSTIN, TX 78737	28160	884.75	886.25
R106359	BOYD ALSTON & BARBARA	14607 BEAR CREEK PASS AUSTIN, TX 78737	14607 BEAR CREEK PASS AUSTIN, TX 78737	69960	885.88	887.38
R106360	BOYD ALSTON & BARBARA	14607 BEAR CREEK PASS AUSTIN, TX 78737	14607 BEAR CREEK PASS AUSTIN, TX 78737	9070	886.13	887.63

Appendix H.3

Digital Data