TWIN OAKS BOARD OF ALDERMEN NOTICE OF WORK SESSION TWIN OAKS CITY HALL WEDNESDAY, APRIL 19, 2023, 6:15 P.M. TWIN OAKS, MO 63021

TENTATIVE AGENDA

- 1) Crescent Avenue Sidewalk Project Stormwater Improvements
- 2) <u>ADJOURNMENT</u>

Frank Johnson City Clerk/Administrator

POSTED: April 17, 2023, 10 a.m.

Please note: Any person requiring physical or verbal accommodations should contact the city office 12 hours prior to meeting at 636-225-7873. Copies of public records for this agenda are available for public inspection before and at the time of the meeting.





103 Elm Street Washington, MO 63090 April 13, 2023

City of Twin Oaks 1381 Big Bend Road Twin Oaks, MO 63021

Attn: Frank Johnson, City Clerk/Administrator

RE: Summary of Cost – Stormwater and Sidewalk Improvement Project

Crescent Ave (Golden Oak Ct to 150 Crescent Rd)

BFA #3497-13A

Mr. Johnson,

Per our meeting with Mr. Krewson dated 03/22/2023, our telephone call dated 03/31/2023, and the City council meeting dated 03/30/2023. BFA did a concept analysis on a modified version of Option 3 from the Stormwater Evaluation dated 09-02-2021 for managing stormwater flow accumulated on Crescent Ave.

Engineering Cost Summary					
Modified Option 3 Estimate	\$15,400				
Remaining Budget as of March 31, 2023	<u>(\$6,695)</u>				
Add to Budget for Change in Scope	\$8,704				
Construction Estimate					
Modified Option 3 Estimate	\$97,512				
Option 5 from Stormwater Evaluation dated 09-02-2021*	<u>(\$9,714)</u>				
Add to Budget for Change in Scope	\$ 87,798				
*Option 5 – Convey water to new curb inlet and release in yard of 90 Crescent Ave					

This would add \$8,704 in Engineering and \$87,798 in Construction to the current total project cost of \$527,176.50.

The updated Total Project Cost comes to \$623,679.50

Enclosures provide further information regarding the analysis of Modified Option 3.

Please let me know if you need further explanation of an of these items or if you have additional items that you would like to have reviewed in more detail.

Best Regards,

Tiffaney Danz BFA, Inc

Enclosures:

Modified Option 3: Cost Estimate

Modified Option 3: Grading Plan GR-2 04-05-2023



636.239.4751 www.bfoeng.com

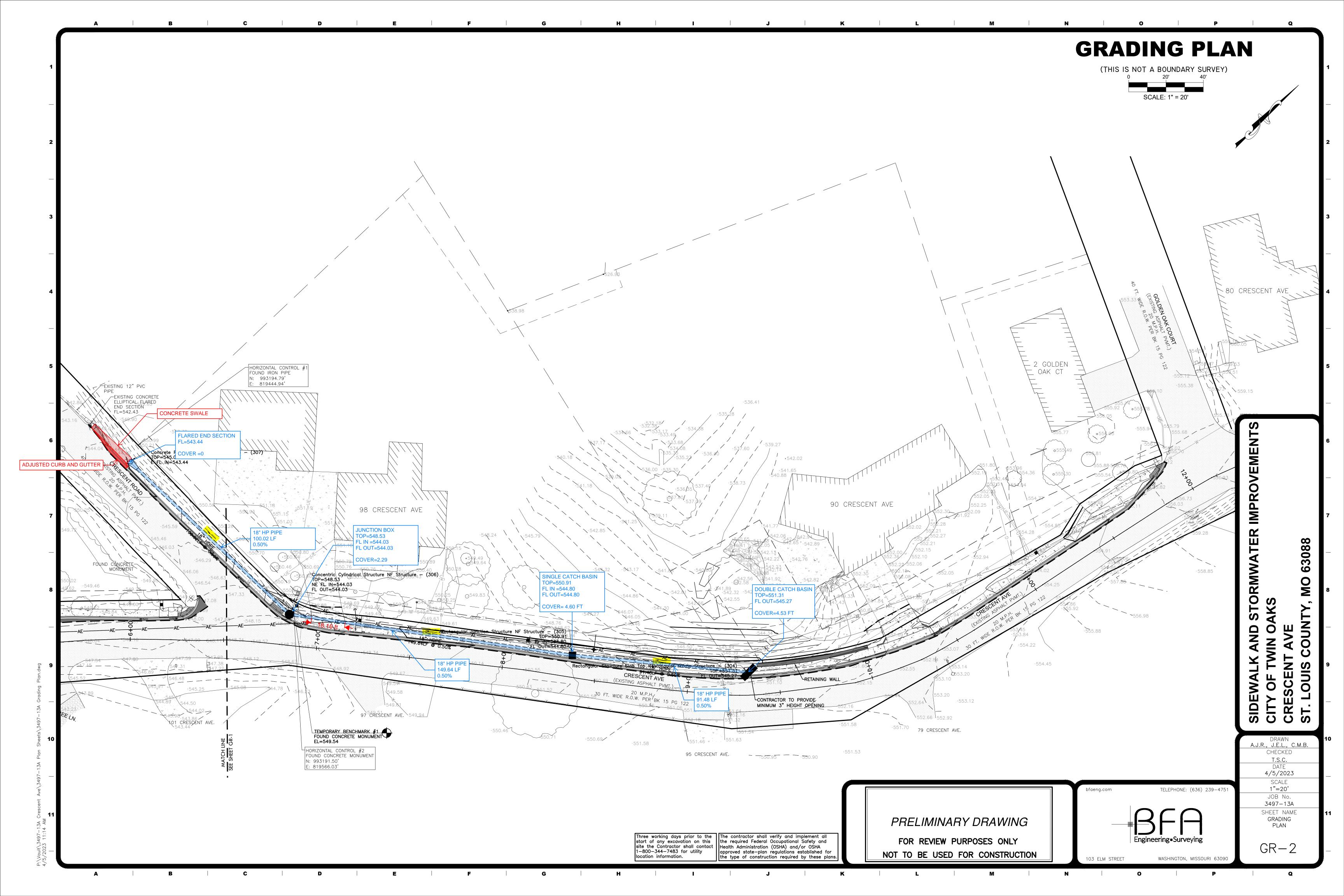
Crescent Ave Sidewalk - Phase I

BFA Project No. 3497-13A STORMWATER

Date: 4-13-2023

ITEM	QUANTITY	UNIT UNIT PRICE			TOTAL		
<u>Utility</u>							
Catch Basin	1	EACH	\$ 4,937.00	\$	4,937.00		
Double Catch Basin	1	EACH	\$ 6,523.00	\$	6,523.00		
Juction Box	1	EACH	\$ 4,937.00	\$	4,937.00		
18" Flared End Section	1	EACH	\$ 209.00	\$	209.00		
Stormsewer - 18" HP	342	LF	\$ 159.56	\$	54,570.00		
<u>Sitework</u>							
Concrete Swale	10	SY	\$ 93.50	\$	935.00		
<u>Demo</u>							
Asphalt Pavement Removal	11	SY	\$ 10.91	\$	120.00		
	\$	72,231.00					
Contingency due to preliminary		25%	\$	18,057.75			
Contingency for Inflation		10%	\$	7,223.10			
CONSTRUCTION TOTAL				\$	97,512		
ENGINEERING FEE				\$	15,400		

- 1. An approximate 20% inflation cost is anticipated based on observations on recent projects.
- 2. Cost estimate does not include ROW or easement acquisition.
- **3.** Engineering fee includes preparing stormwater calculations (\$4,000), survey (\$1,400), and design plan (\$10,000).
- **4.** Estimates are based on limited investigation of existing conditions and the concept design of the proposed solution.
- **5.** Engineering Fee does not include utility coordination, bid assistance, construction management, public involvement, concept plans, and Easement Exhibit preparation.
- 6. Cost estimate assumes MSD permitting is not required.
- **7.** Construction fee does not include traffic control, mobilization, finish grading, seeding, and erosion & sediment control.
- **8.** The existing pipe at the catch basin on Crescent Road appears to be in poor condition and may require additional repairs.
- 9. This estimate is based on the prliminary layout Modified Option 3 dated 04/05/2023.
- 10. This does not include meeting with home owners.





103 Elm Street Washington, MO 63090



Crescent Ave Sidewalk - Phase I

Engineering and Constrcution Cost Estimate BFA Project No. 3497-13A

Date: 4-13-2023

Public Involvement and Concept Plans	А	ug 26,2022	Feb 26,2023		Mar 31,2023		Remaining	
Concept Plans and Meetings	\$	16,500.00						
Concept Stormwater Packet of Options	\$	3,816.25						
Aerial Concept Plan for South Properties	\$	745.00						
Concept Plans and Meetings for South Properties			\$	3,035.94				
Capital Planning Estimates and Meeting			\$	3,170.00				
Concept Plans and Meetings							\$	2,294.06
Survey								
Topographic Survey and Field Work	\$	6,961.25	\$	1,196.22	\$	70.00		
ROW Documents	\$	3,780.00	\$	5,192.78	\$	200.00	\$	5,561.00
Stormwater Analysis								
Stormwater Calcs and Report	\$	575.00	\$	1,785.00			\$	2,390.00
Meeting with Krewsons and Concept Plans			\$	445.00	\$	2,085.00	\$	970.00
Additonal Topo			\$	1,320.00			\$	1,180.00
Additional Design for Krewsons Yard			\$	75.00	\$	270.00	\$	2,155.00
Design Services								
Preliminary Design for North Properties	\$	10,498.00						
Preliminary and Final Design			\$	20,255.00	\$	3,225.00	\$	11,341.00
Tree Removal at 140 Crescent Ave (Added 4-5-23)							\$	3,000.00
County SWPPP Permit			\$	3,927.78	\$	2,340.00	\$	732.22
Utility Coordination			\$	2,275.00	\$	720.00	\$	3,005.00
Bid Assistance							\$	5,400.00
Construction Observations								
As Needed							\$	19,400.00
Stormwater Grant Document								
Prepare and Sign	\$	285.00						
Total Estimate for BFA Services	\$	152,176.50						
Total Spent	\$	43,160.50	\$	42,677.72	\$	8,910.00	\$	57,428.28
*Construction Estimate	\$	375,000.00						
Total Project	\$	527,176.50						

North Properties: 90 Crescent, 98 Crescent, 2 Golden Oaks Ct South Properties: 140 Crescent Ave, and 150 Crescent Ave

*\$10,000 has been added to construction cost for removal of trees on 140 Crescent.

Does not include
Grant Adminstartion
MSD submittal and approvals
Concept Plans and Cost Estimates over the Estimated Fee (\$8,500) this estimate was after Aug. 26, 2022.
County Site Plan Approval
Coordination and/or reviews by Valley Park