

**TWIN OAKS BOARD OF ALDERMEN
NOTICE OF WORK SESSION
TWIN OAKS CITY HALL
FRIDAY, JANUARY 15, 2021, 1:00 P.M.
TWIN OAKS, MO 63021**

To balance both the need for continuity of government and protection of the health and safety of our residents, business persons and employees, this meeting of the Board of Aldermen will not be open to public attendance *in person* but shall be accessible by the public by telephone (audio only) or by using their tablet/laptop/pc (audio/video) at:

Telephone: (312) 626-6799

Computer: <https://us02web.zoom.us/j/5197276201?pwd=SHZXODU1cGtKOWJNSTFUUFERSQnY5Zz09>

Webinar ID: 519-727-6201

Passcode: 9YgwmB

The Board apologizes for any inconvenience these requirements may pose but it is extremely important all measures in compliance with the orders issued by public health authorities be taken to protect employees, residents, and elected officials during these extraordinary times.

TENTATIVE AGENDA

1. Preliminary Plan for Crescent Avenue Sidewalk Project
2. Adjournment

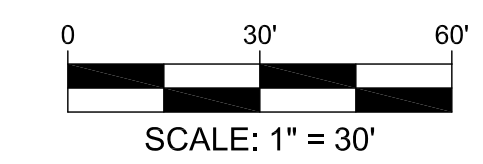
Frank Johnson
City Clerk

POSTED: January 12, 2021, 11 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.

OVERALL SITE PLAN

(THIS IS NOT A BOUNDARY SURVEY)



ABBREVIATION KEY	
ABBREVIATION	DESCRIPTION
R/W	RIGHT-OF-WAY

DESCRIPTION	SITE LEGEND	
	PROPOSED	EXISTING
AERIAL ELECTRIC	—AE—	—AE—
UNDERGROUND ELECTRIC	—UE—	—UE—
UNDERGROUND TELEPHONE	—UT—	—UT—
GAS LINE	—G—	—G—
WATERLINE	—W—	—W—
SANITARY SEWER	—SS—	—SS—
STORM SEWER	=====	=====
FENCE	-X-X-X-	-X-X-X-
UTILITY POLE	•	•
SANITARY MANHOLE	◦	◦
WATER VALVE	•	•
FIRE HYDRANT	•	•
CATCH BASIN	■	■
CONCRETE JOINTS	---	---

SITE NOTES:

- The Contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The Contractor must call the appropriate utility company to request exact field location of utilities. It shall be the responsibility of the Contractor to relocate all existing utilities which conflict with the proposed improvements shown on plans.
- Bearing referenced to Grid North of the Missouri Coordinate System 1983, East Zone per GPS observations utilizing the MODOT VRS RTK Network.
- Field work was completed on this site by Buescher Frankenberg Associates, Inc. on October 27, 2020.
- (M) Indicates measured outboundary information obtained by BFA, Inc.
- (R) Indicates recorded outboundary information as Village of Twin Oaks, Missouri Street Boundary Map by P.H. WEIS & Associates incorporated dated 9/1/00.
- This site scales within Zone X, as per Federal Emergency Management Agency Flood Insurance Rate Map, Community Panel No. 29189C0292K dated 2/4/2015.
- All trenches under paved areas shall be backfilled with granular material and compacted to meet compaction requirements for the parking lot. Granular material shall be placed and compacted to a level equal to the trench depth at the time of the utility installations.
- Contractor to contact telephone, electric, gas, and water companies to have underground utilities located on this site and adjacent to this site prior to doing any excavating.
- The contractor is responsible for keeping storm water run-off and sediment under control during construction. All contractors shall refer to the Erosion and Sediment Control Plan throughout construction.
- The sitework for this project shall meet or exceed the "Site Specific Specifications".
- All survey monuments disturbed during construction shall be replaced by a surveyor licensed in the state, in which this project is located, at the Contractors expense.
- The Contractor shall verify and/or perform all necessary inspections and/or certifications required by codes and/or utility companies prior to the announced building possession date and the final connections of utility services. All fees shall be paid by the contractor.
- Contractor shall be responsible for all removals of and/or relocations, including but not limited to, utilities, storm drainage, signs, traffic signals and poles, etc as required. All work shall be done in accordance with governing authorities specifications and shall be approved by such. All costs shall be included in base bid.
- Nearmap imagery dated 2/19/2020.

**CITY OF TWIN OAKS
TWIN OAKS
ST. LOUIS COUNTY
MISSOURI, 63088**

DRAWN	C.M.B.
CHECKED	T.S.C.
DATE	1/8/2021
SCALE	1"=30'
JOB No.	3497-13A
SHEET NAME	SITE PLAN

SP-1

Three working days prior to the start of any excavation on this site the Contractor shall contact 1-800-344-7483 for utility location information.

The contractor shall verify and implement all the required Federal Occupational Safety and Health Administration (OSHA) and/or OSHA approved state-plan regulations established for the type of construction required by these plans.

PRELIMINARY DRAWING

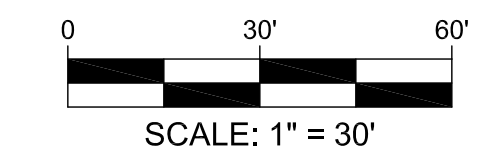
FOR REVIEW PURPOSES ONLY
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bfaeng.com TELEPHONE: (636) 239-4751

103 ELM STREET WASHINGTON, MISSOURI 63090

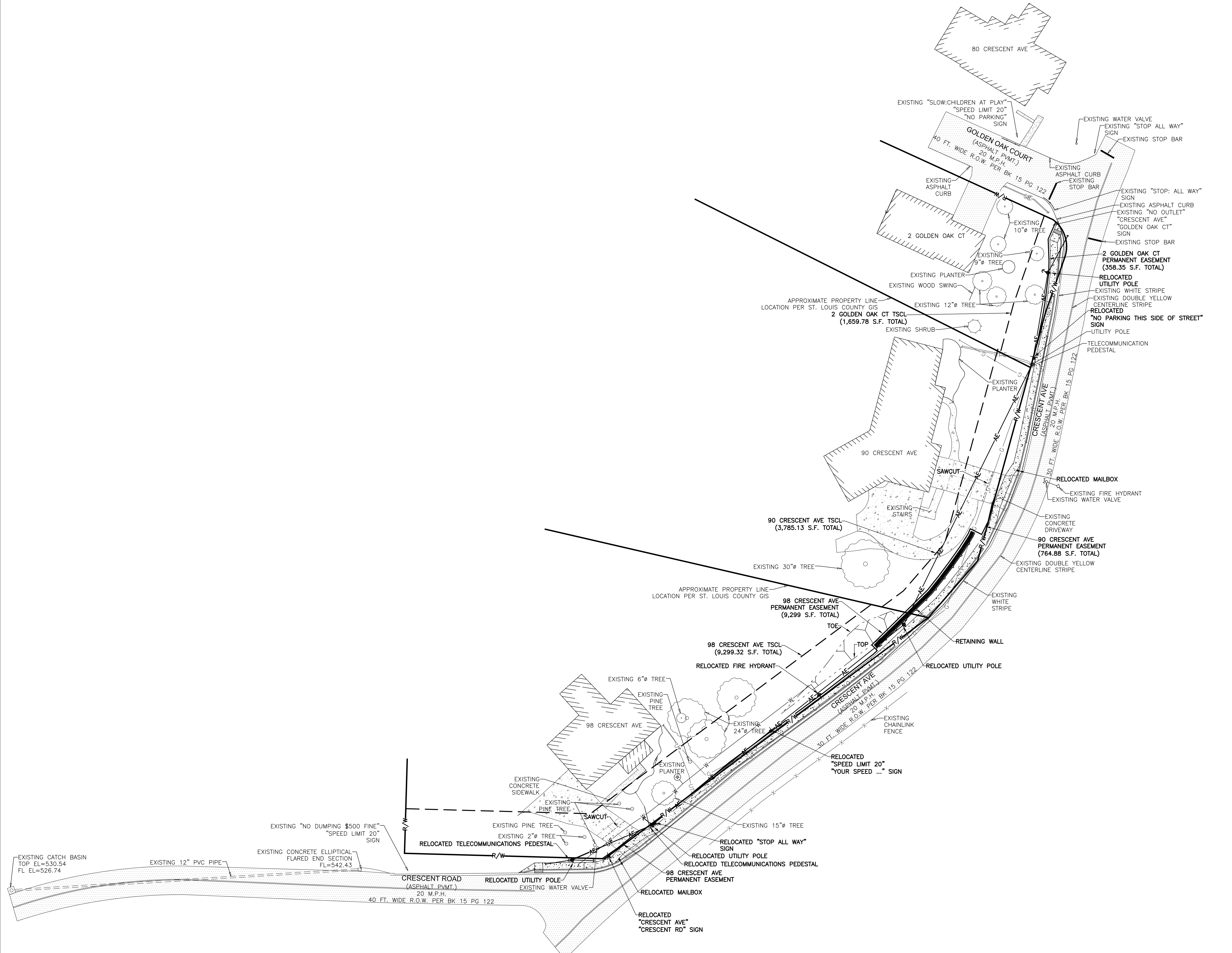
OVERALL SITE PLAN

(THIS IS NOT A BOUNDARY SURVEY)



ABBREVIATION KEY	
ABBREVIATION	DESCRIPTION
R/W	RIGHT-OF-WAY
TSCL	TEMPORARY SLOPE CONSTRUCTION LICENSE
PVC	POLYVINYL CHLORIDE

DESCRIPTION	SITE LEGEND	
	PROPOSED	EXISTING
AERIAL ELECTRIC	—AE—	—AE—
UNDERGROUND ELECTRIC	—UE—	—UE—
UNDERGROUND TELEPHONE	—UT—	—UT—
GAS LINE	—G—	—G—
WATERLINE	—W—	—W—
SANITARY SEWER	—SS—	—SS—
STORM SEWER	=====	=====
FENCE	-X-X-X-	-X-X-X-
UTILITY POLE	•	•
SANITARY MANHOLE	◦	◦
WATER VALVE	•	•
FIRE HYDRANT	•	•
CATCH BASIN	■	■
CONCRETE JOINTS	— — — —	— — — —



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 - Bearing referenced to Grid North of the Missouri Coordinate System 1983, East Zone per GPS observations utilizing the MDOOT VRS RTK Network.
 - Field work was completed on this site by Buescher Frankenberg Associates, Inc. on October 27, 2020.
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The contractor shall verify and implement all the required Federal Occupational Safety and Health Administration (OSHA) and/or OSHA approved state-plan regulations established for the type of construction required by these plans.

PRELIMINARY DRAWING

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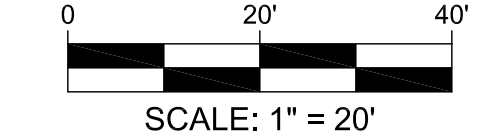
bfaeng.com TELEPHONE: (636) 239-4751

103 ELM STREET WASHINGTON, MISSOURI 63090

F:\Vault\3497-13A Crescent Ave\3497-13A Site Plan.dwg 1/8/2021 3:58 PM

GRADING PLAN

(THIS IS NOT A BOUNDARY SURVEY)



ABBREVIATION KEY	
ABBREVIATION	DESCRIPTION
R/W	RIGHT-OF-WAY
TSCL	TEMPORARY SLOPE CONSTRUCTION LICENSE
PVC	POLYVINYL CHLORIDE

GRADING LEGEND		
DESCRIPTION	PROPOSED	EXISTING
AERIAL ELECTRIC	—AE—	—AE—
UNDERGROUND ELECTRIC	—UE—	—UE—
UNDERGROUND TELEPHONE	—UT—	—UT—
GAS LINE	—G—	—G—
WATERLINE	—W—	—W—
SANITARY SEWER	—SS—	—SS—
STORM SEWER	=====	=====
FENCE	—X—X—X—	—X—X—X—
CONTOURS	—(100)—	—100—
UTILITY POLE	•	•
SANITARY MANHOLE	◉	◉
WATER VALVE	•	•
FIRE HYDRANT	•	•
CATCH BASIN	■	■
CONCRETE JOINTS	—	—

SPOT GRADE LEGEND	
TOP OF CURB	① 000.00TC
PAVEMENT ELEVATION	① 000.00P
CUTTER ELEVATION @ FACE OF CURB	① 000.00C

HORIZONTAL CONTROL POINTS			
POINT NUMBER	DESCRIPTION	NORTHING	EASTING
1	FOUND IRON PIPE	993194.79	819444.94
2	FOUND CONCRETE MONUMENT	993191.50	819566.03

GRADING NOTES:

- This site scales within Zone X, as per Federal Emergency Management Agency Flood Insurance Rate Map, Community Panel No. 29189C0292K dated 2/4/2015.
- The Contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The Contractor must call the appropriate utility company to request exact field location of utilities. It shall be the responsibility of the Contractor to relocate all existing utilities which conflict with the proposed improvements shown on plans.
- All un surfaced areas are to receive six inches of topsoil. Contractor to seed, mulch, fertilize, water, and maintain all areas outside of paved areas that were disturbed during construction until an acceptable stand of grass is established. Contractor shall be responsible to take whatever means necessary to establish permanent soil stabilization.
- The contractor is responsible for keeping storm water run-off and sediment under control during construction. All contractors shall refer to the Erosion and Sediment Control Plan throughout construction.
- The Contractor shall maintain the site in a well-drained manner in order to assure the shortest possible drying time after each rainfall. This will mean that pumping of standing water in low areas on the site will most likely be required during construction. Also pumping of ground water in utility trenched and deep excavations will be required during construction.
- The sitework for this project shall meet or exceed the "Site Specific Specifications".
- All survey monuments disturbed during construction shall be replaced by a surveyor licensed in the state, in which this project is located, at the Contractor's expense.
- The Contractor shall verify and/or perform all necessary inspections and/or certifications required by codes and/or utility companies prior to the announced building possession date and the final connections of utility services. All fees shall be paid by the contractor.
- Due to seasonal variations in rainfall and the groundwater level, the Contractor may be required to use light earth moving equipment to minimize pumping.
- The Contractor shall grade all areas to drain in order to prevent ponding water. The minimum allowable slope on all paved surfaces shall be 1 percent.
- Unless indicated otherwise, all waterline and sanitary sewer crossings shall have a minimum 18 inch vertical separation and 10 feet horizontal separation. The Contractor shall note that the depths of existing utilities have been plotted from information provided by various utility companies and is to be considered approximate. If the minimum separations cannot be constructed as shown the Contractor shall notify the BFA and appropriate modifications will be issued.

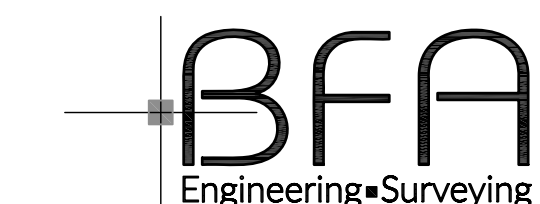
Three working days prior to the start of any excavation on this site the Contractor shall contact 1-800-344-7483 for utility location information.

The contractor shall verify and implement all the required Federal Occupational Safety and Health Administration (OSHA) and/or OSHA approved state-plan regulations established for the type of construction required by these plans.

PRELIMINARY DRAWING

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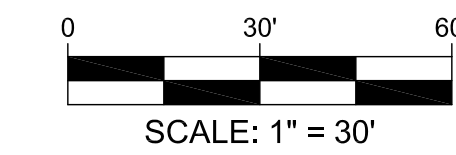
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SHEET NAME
GRADING
PLAN

GR-1

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TOPOGRAPHIC SURVEY/ DEMOLITION PLAN

(THIS IS NOT A BOUNDARY SURVEY)



TOPOGRAPHIC SURVEY NOTES:

- Underground facilities, structures, and utilities have been plotted from available surveys and records. Therefore, their location must be considered approximate only. There may be others, the existence of which is presently not known.
- Bearing referenced to Grid North of the Missouri Coordinate System 1983, East Zone per GPS observations utilizing the MODOT VRS RTK Network.
- Field work was completed on this site by Buescher Frankenberg Associates, Inc. on October 27, 2020.
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- Contractor shall verify elevation of temporary benchmarks based on the elevation of the primary benchmark, prior to the start of construction. Contractor shall notify engineer if elevations differ from those shown on these plans.
- Vertical datum used is NAVD 1988 per GPS observations utilizing MoDOT VRS RTK Network.
Temporary Benchmark No. 1 - Concrete Monument
Elevation = 549.54
- This site scales within Zone X, as per Federal Emergency Management Agency Flood Insurance Rate Map, Community Panel No. 29189C0292K dated 2/4/2015.
- Water service to this site is provided by Missouri-American Water Company.
- Sanitary sewer service to this site is provided by Metropolitan St. Louis Sewer District, at time of survey.
- Electrical service to this site is provided by Ameren, at time of survey.
- Telephone service to this site is provided by AT&T, at time of survey.
- Natural gas service to this site is provided by Spire, at time of survey.
- Existing storm sewers, that were accessible at the time field work was completed, appeared to be in fair condition.
- This site is within the St. Louis County District of the Missouri Department of Transportation. The DOT contact for this site is Tom Blair, P.E.

ABBREVIATION	DESCRIPTION
TBR	TO BE RELOCATED
TBD	TO BE DEMOLISHED
TBA	TO BE ADJUSTED

TOPOGRAPHIC LEGEND	
DESCRIPTION	EXISTING
AERIAL ELECTRIC	AE
UNDERGROUND ELECTRIC	UE
UNDERGROUND TELEPHONE	UT
GAS LINE	G
WATERLINE	W
FLOWLINE	F
SANITARY SEWER	SS
STORM SEWER	SS
FENCE	X-X-X-X
CONTOURS	100
UTILITY POLE	o
SANITARY MANHOLE	o
WATER VALVE	*
FIRE HYDRANT	*
CATCH BASIN	⊞
CONCRETE JOINTS	—



AREA MAP - NOT TO SCALE

HORIZONTAL CONTROL POINTS			
POINT NUMBER	DESCRIPTION	NORTHING	EASTING
1	FOUND IRON PIPE	993194.79	819444.94
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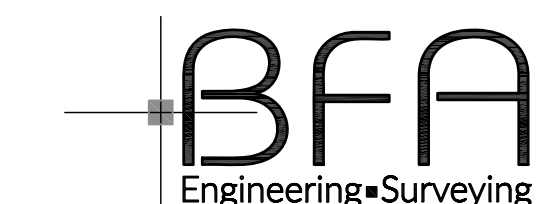
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SURVEY

TS-1

103 Elm Street
Washington, MO 63090



636.239.4751
www.bfaeng.com

Crescent Ave Sidewalk - Phase I

Concept Plan 1.0

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
Mobilization	1	LS	\$ 3,000.00	\$ 3,000.00
Traffic Control	1	LS	\$10,000.00	\$ 10,000.00
Temporary Erosion Control	1	LS	\$ 3,000.00	\$ 3,000.00
Demolition				
Tree Removal 10"-24" diameter	6	EACH	\$ 500.00	\$ 3,000.00
Shrub Removal	1	EACH	\$ 80.00	\$ 80.00
Pavement Driveway	73	SY	\$ 15.00	\$ 1,095.00
To Be Relocated				
Mailbox	2	EACH	\$ 200.00	\$ 400.00
Signs	4	EACH	\$ 150.00	\$ 600.00
3 Phase Utility Pole and Guy wire	4	EACH	\$ 8,500.00	\$ 34,000.00
Utility Pole to be Adjusted Due to Grading	1	EACH	\$ 1,500.00	\$ 1,500.00
Fire Hydrant	1	EACH	\$ 3,000.00	\$ 3,000.00
Telecommunications Pedestal	2	EACH	\$ 2,175.00	\$ 4,350.00
Telecommunications Pedestal Adjusted	1	EACH	\$ 1,500.00	\$ 1,500.00
Sitework				
4' Concrete Sidewalk	246	SY	\$ 58.00	\$ 14,268.00
Concrete Curb and Gutter	550	LF	\$ 28.00	\$ 15,400.00
Seeding/Sodding	461	SY	\$ 3.00	\$ 1,383.00
Earthwork, Import Fill	14	CY	\$ 15.00	\$ 210.00
Earthwork, Cut & Fill Rotation	155	CY	\$ 5.00	\$ 775.00
4.5' Tall Retaining Wall	92	LF	\$ 230.00	\$ 21,160.00
Fence	92	LF	\$ 70.00	\$ 6,440.00
Truncated Dome	2	EACH	\$ 200.00	\$ 400.00
Driveway Sawcut	37	LF	\$ 10.00	\$ 370.00
Rebuild Concrete Driveway	55	SY	\$ 43.00	\$ 2,365.00
Roadway				
Striping	550	LF	\$ 1.00	\$ 550.00
Sawcut	550	LF	\$ 10.00	\$ 5,500.00
SUBTOTAL				\$ 134,346.00
Contingency due to preliminary			10%	\$ 13,434.60
CONSTRUCTION TOTAL				\$ 147,780.60

PROJECT TOTAL

\$ 165,480.60