103 Elm Street Washington, MO 63090



DATE: MAY 24th, 2018

TO: ALL GENERAL CONTRACTORS BIDDING

- FROM: BFA, Inc.
- SUBJECT: BLUFF ROAD IMPROVEMENTS FEDERAL PROJECT #STP-6400(623) WASHINGTON, MO 63090

ADDENDUM #1

This Addendum is an integral part of the contract documents and shall be treated as such. Contractor shall acknowledge receipt of this Addendum on the Bid Form.

PROJECT MANUAL:

- Refer to New Bid Sheet.
 - o Milling quantity was updated from 17,500 S.Y. to 1,460 S.Y.
 - Delete Prime Coat from Bid Sheet
 - o Refer to updated items from Plans section below affecting bid sheet
 - Update Bid Sheet to include 2 message boards from (EFK) Signal Plans, for a total of 5 Portable Message Boards for the project.
 - Breakout asphalt quantities upon based upon pavement type:
 - 1. Bituminous Base, BP-1 & BP-2.
 - Add to Bid Sheet: Alternate No. A (Deduct) Alternate deduct for wood pole temporary signal in lieu of steel pole signal system. The maximum signal span for wood poles is 100'. Poles along the north and east side of Hwy 100 and Vossbrink Drvie must be setback 3' clear from curb. Due to "T" (3 sided) intersection Contractor may eliminate temporary span over Vossbrink Drive at station 50+40 so long as signals are operational according to plans and specs.

• Method of Award:

- o The method of Award will be prioritized as follows:
 - 1. Base Bid + Alternate No. A (Deduct)
 - 2. Base Bid
 - 3. Base Bid + Alternate No. A (Deduct) + Add Alternate No. 1

PLANS:

- Sheet TRS-1 Typical Roadway Sections 1:
 - o Delete "(Alternate Pavement Section)" label from all sections
 - Change Base Asphalt of Bluff Road (Overlay) Sta 9+50 to 35+65; Sta 49+10 to 57+49 from BP-2 to BP-1. (MoDOT EPG doesn't allow PMBB in lifts less than 3"). Refer to New Bid Sheet.
 - Change shoulders to full depth by adding 3 ³/₄" of Bituminous Base Asphalt (BB) to as the lowest (first) lift. This will decrease the amount of Aggregate Base Rock. Refer to New Bid Sheet.

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- Sheet IM 1 Improvement Plan:
 - Existing waterline and relocation plan has been verified and changed. Refer to New Bid Sheet.
- Sheets: IM 1 Improvement Plan & Sheet IM 2 Improvement Plan
 - Proposed Barbed Wire Fence (Brehe Property)
 - 1. North Section from Stations 9+50 to 19+40: Construct new fence as follows; 6" to 8" diameter brace posts (cedar), 6.5' T steel posts, with one rebracing with wood posts in the center of the span. Posts will be 10' apart except for the brace posts which will be 6' to 8' apart. Wire will be 47" woven wire and 3 strands of regular barbed wire. Woven wire will be attached to the posts with a minimum of 5 places including bottom strand, the two top strands, and two places in between. All barbed wire will be attached to the posts approximately 2" apart. Brace posts will be set 3' deep and T posts 2' deep.
 - 2. South Section from Stations 1+00 to 9+50: Fence construction will be the same as specified for the North Section, but will include a flood gate for the creek branch, and an access gate south of the creek branch and an access on the hill above the creek branch.
 - Access gates to be 10' wide painted steel tube.
 - Flood gate to be constructed with 1-8' wide 50" tall 5 panel galvanized gate hung by a 5/8" steel cable anchored by two schedule 40 steel pipe bollards, 6" diameter, embedded in concrete, 5' deep.
 - Contractor's means and methods may require a temporary fence to be installed to prevent cattle from access to Bluff Road.

CLARIFICATIONS:

- Utility Coordination for Bluff Road profile grade adjustment and Culvert removal and replacement.
 - AT&T Fiber optic (west side) and u/g phone (east side) will remain in place during construction. Contractor to support cables in place during open trench construction. Coordinate all construction with Utility Contact provided in the specifications.
 - Gas, Spire Energy Spire Energy has plans to back feed the industrial park, and will de-energize the portion of gas main during the box culvert replacement and the profile grade adjustment. Contractor to coordinate disconnection and all construction work with Utility Contact provided in the specifications. Upon completion of culvert replacement, Contractor to coordinate re-connection schedule with Gas company in order to re-activate their line.
 - Ameren Missouri Electric Ameren will relocate the electric service for the farmstead and de-energize Bluff Rd overhead lines during the box culvert replacement and profile grade adjustment. Coordinate for utility company to set new poles upon new culvert installation and fill grading. Coordinate all construction with Utility Contact provided in the specifications.
- Traffic Paint Use Water-Borne Traffic Paint.
- The roadwork for overlay is not necessarily hatched on the improvements plans. Please see typical sections for roadwork and respective stationing.

End of Addendum #1

Bluff Road - Sta: 0+00 to 57+49	5/24/2018					
Description	From STA	To STA	Quantity	Unit	Unit Price	Item Tota
Mobilization			1	LS		
Traffic Control						
Portable Message Board			3	EA		
Type 3 Barricade			2	EA		
Channel providers (barrels with lights)			36	EA		
"Detour" Arrow sign (M4-9L/R)			7	EA		
"Road Closed" sign (R11-2)			3	EA		
"Be Prepared To Stop" sign (W3-4)			1	EA		
"Detour" ahead sign (W20-2)			3	EA		
"Road Closed" ahead sign (W20-3)			5	EA		
"Bluff Rd at Hwy 100" special sign			10	EA		
SWPPP						
Synthetic erosion control (silt fence)			1,900	LF		
Inlet/outlet protection			2	EA		
Culvert protection			2	EA		
Demolition						
Cold milling asphalt pavement			1,460	SY		
Sawcut			200	LF		
Pavement demolition			8,160	SY		
Remove 72" CMP Culverts (3 barrels)			1	LS		
Remove 12" culvert			55	LF		
Remove 18" culvert			120	LF		
Demolition fenceline			1,810	LF		
Roadway						
Placing and compacting embankment	0+00	9+50	11,100	CY		
Aggregate base course	0+00	9+50	4,040			
Aggregate base course	35+65	49+10	3,590	SY		
Plant Mix Bituminous Base (BB)	0+20 - 9+50	35+65-49+10	3,310	TON		
Plant Mix Bituminous Pavement (BP-1)	9+50-35+65	49+10-57+49	1,625	TON		
Plant Mix Bituminous Pavement (BP-2)	0+20	57+49	2,150	TON		
Prime coat (1 layer reconstruction) (36,307 s.f.) (.5 gal/yd?)	0:00	0:50	2,017	CAL		
(32,280 c.f.)	35+65	/Q+10	1,703	GAL		
Tack coat (2 layers reconstruction) (36,307 s.f.) (.05 gal/yd²)	9+50	35+65	403	GAL		
(32,280 s.f.)	49+10	57+49		GAL		
Tack coat (2 layers overlay) (93,574 s.f.) (.08 gal/yd²)	0+00	9+50	1,664	GAL		
(30,520 s.f.)	35+65	49+10		GAL		
Vehicle gaurd rails			706			
Striping						
Pavement markings - white (4" width)			11,306	LF		
Pavement markings - yellow (4" width)			2,064			
Pavement markings - stop blocks				LF		
Pavement arrow markings - white				EA		

Traffic Signal (Hwy 100 & Bluff Road)	Insert itemized total from bid list by EFK Moen				
Temporary Traffic Signal (Hwy 100 & Vossbrink Drive)					
Relocated signs			3 E	=A	
<u>Utility</u>					
Adjust manhole to grade			1 L		
18" RCP piping			130 L		
18" RCP flared end section			3 E		
9'W x 7'H precast concrete box culvert			1 L	S	
12" CMP culvert			52 L	_F	
Adjust water valves to grade			2 8	EA	
12" Waterline relocation			430 L	F	
Adjust fire hydrant to grade			2 E	EA	
12" water valve			2 8	ΞA	
<u>Sitework</u>					
Concrete drive replacement			740 \$	SY	
Concrete aggregate base			740 \$	SY	
Concrete curb replacement			275 L	F	
Reconstruct gravel drive			40 \$	SY	
Fence (agricultural farm fence)			1,840 L	F	
Relocated fence gates			2 8	EA	
Rip-rap and rock lining			2,360	SY	
Fill (Overlay topsoil)	9+50	57+49	400 (
Adjust mailboxes to grade			7 8		
Seeding			8,500 \$	SY	
	00+00	57+49			BASE BID
Alternate No. A (Deduct) - Wood Pole Temporary Signal			1 L	S	-
in lieu of Steel Pole Temporary Signal					
· · · · · ·	00+00	57+49	E	BASE B	ID + ALT No. A
Add Alternate No. 1 - In Pavement Vehicle Detection System			1 [S	
(as specified by EFK Moen)					
	00+00	57+49	BASE BID +	ALT N	o. A + ALT No. 1
			1		

EFK•Moen, LLC

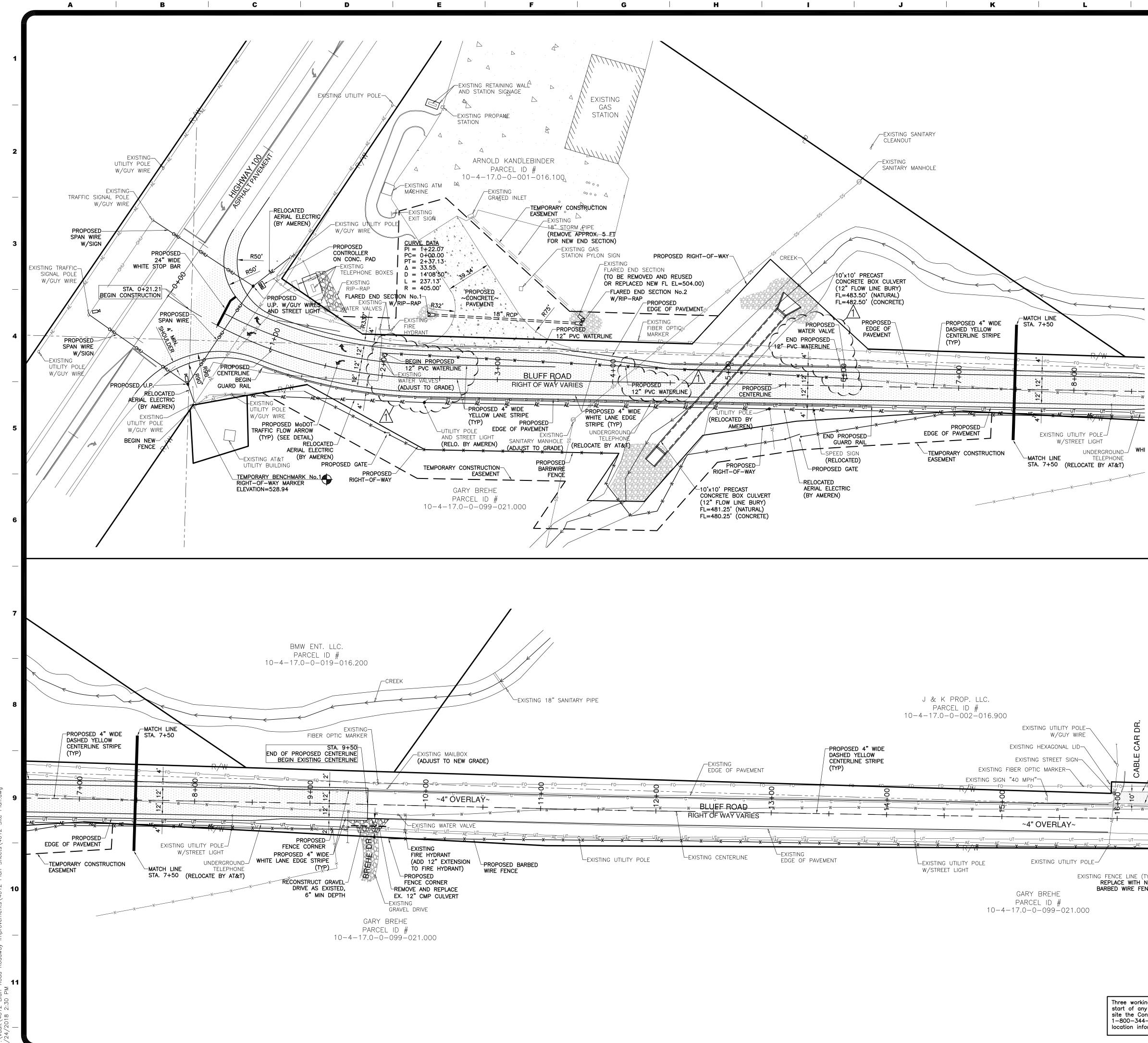
Civil Engineering Design

City of Washington, Missouri - Bluff Road Reconstruction Signals Bid Item List

Date Prepared: 4/4/2018

Item No.	Item	Unit	Quantity	Unit Price	Item Total
	SIGNAL HEAD, TYPE 3C	EACH	3		
	SIGNAL HEAD, TYPE 4C	EACH	1		
	150 WATT 120 VOLT HIGH PRESSURE SODIUM LUMINAIRE	EACH	1		
	POST, WOOD SPAN WIRE, CLASS IV	EACH	3		
902-35.53	POST, WOOD SPAN WIRE, CLASS IV, FOR 30 FT. LUMINAIRE MTG.	EACH	1		
902-36.01	SPAN WIRE ASSEMBLY, SINGLE MESSENGER	LF	120		
902-36.02	SPAN WIRE ASSEMBLY, SINGLE MESSENGER WITH TETHER	LF	340		
902-42.83	CONTROLLER ASSEMBLY HOUSING, NEMA TS2 CONTROLLER	EACH	1		
902-53.00	CONDUIT, 3 IN., TRENCH WITH TRACER WIRE	LIN. FT.	58		
902-74.00	CONDUIT, 4 IN., PUSHED WITH TRACER WIRE	LIN. FT.	201		
902-81.00	CABLE, 10 AWG 1 CONDUCTOR, POWER AND BRACKET	LIN. FT.	90		
902-83.02	CABLE, 12 AWG 2 CONDUCTOR	LIN. FT.	80		
902-83.11	CABLE, 16 AWG 7 CONDUCTOR	LIN. FT.	1480		
902-88.11	PULL BOX, PREFORMED CLASS 2	EACH	2		
902-88.21	PULL BOX, CONCRETE, DOUBLE, TYPE A	EACH	1		
902-91.00	BASE, CONCRETE	CY	1.93		
902-99.01	TEMPORARY TRAFFIC SIGNALS, LIGHTING, & VEHICLE DETECTION	LS	1		
002 00.01	OHANGEABLE MEGGAGE GION DOARDO & ADVANGE GIONAGE	10	1	moved iter	n
902-99.01	TRAFFIC SIGNAL MAINTENANCE AND PROGRAMMING	LS	1		
902-99.02	NETWORK CONNECTED SIGNAL MONITOR	EACH	1		
902-99.01	VIDEO DETECTION SYSTEM (REMOVE & REUSE EXISTING SYSTEM)	LS	1		
902-08.33	SH-FLAT SHEET SIGNAL SIGN	SQFT	46		
910-99 02	INSTALL COMMUNICATION EQUIPMENT	EACH	1		

Roadway A	Add Alternate No. 1 - Summary of Items				
Item No.	Item	Unit	Quantity	Unit Price	Item Total
902-99.01	IN PAVEMENT VEHICLE DETECTOR SYSTEM	LUMP	1		



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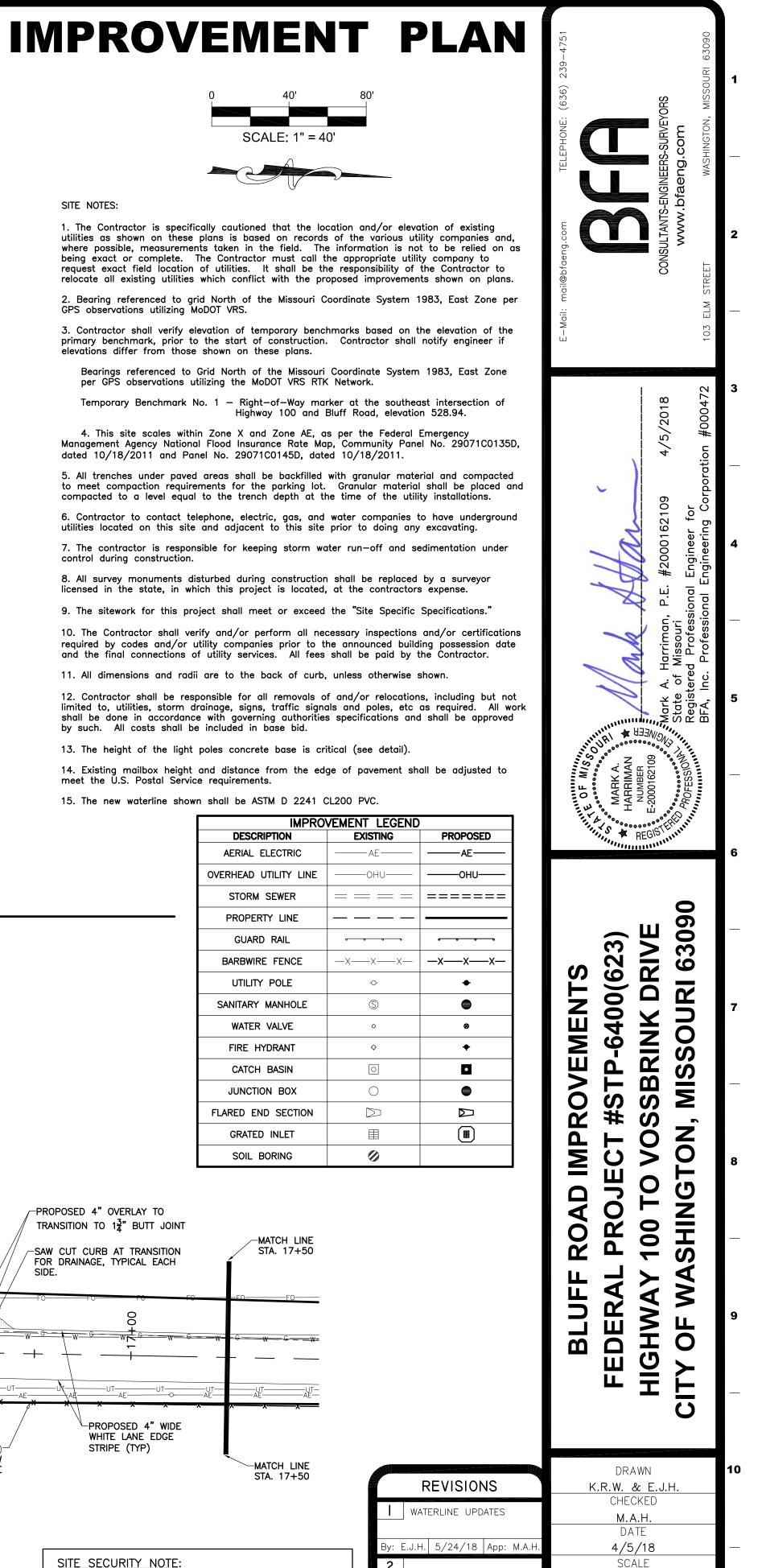
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SITE NOTES:

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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.

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3. 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.

Bearings referenced to Grid North of the Missouri Coordinate System 1983, East Zone per GPS observations utilizing the MoDOT VRS RTK Network.

Temporary Benchmark No. 1 — Right—of—Way marker at the southeast intersection of Highway 100 and Bluff Road, elevation 528.94.

4. This site scales within Zone X and Zone AE, as per the Federal Emergency Management Agency National Flood Insurance Rate Map, Community Panel No. 29071C0135D, dated 10/18/2011 and Panel No. 29071C0145D, dated 10/18/2011.

5. 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. 6. Contractor to contact telephone, electric, gas, and water companies to have underground

7. The contractor is responsible for keeping storm water run-off and sedimentation under control during construction.

8. 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.

9. The sitework for this project shall meet or exceed the "Site Specific Specifications."

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. 11. All dimensions and radii are to the back of curb, unless otherwise shown.

12. 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.

13. The height of the light poles concrete base is critical (see detail).

14. Existing mailbox height and distance from the edge of pavement shall be adjusted to meet the U.S. Postal Service requirements.

15. The new waterline shown shall be ASTM D 2241 CL200 PVC.

IMPRO'	VEMENT LEGEND	
DESCRIPTION	EXISTING	PROPOSED
AERIAL ELECTRIC	AE	——AE
OVERHEAD UTILITY LINE	———ОНИ———	они
STORM SEWER		======
PROPERTY LINE		
GUARD RAIL	σ <u>υυ</u>	<i>a</i> <u> </u>
BARBWIRE FENCE	xx	—x—_x—_x—
UTILITY POLE	-0-	•
SANITARY MANHOLE	S	•
WATER VALVE	0	8
FIRE HYDRANT	¢	+
CATCH BASIN	0	
JUNCTION BOX	0	•
FLARED END SECTION		
GRATED INLET		
SOIL BORING	0	

PROPOSED 4" OVERLAY TO TRANSITION TO 1 ³ / ₄ " BUTT JOINT U U U U U U U U U U U U U	-MATCH LINE STA. 17+50	
PROPOSED 4" WIDE WHITE LANE EDGE STRIPE (TYP) LACE WITH NEW ED WIRE FENCE	MATCH LINE STA. 17+50	

SITE SECURITY NOTE: -SEE EROSION AND SEDIMENTATION CONTROL PLAN/ SITE SECURITY PLAN FOR TEMPORARY BARRICADES AS SHOWN ON THIS PLAN.

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

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

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	WAT	ERLINE UPD	ATES	
By:	E.J.H.	5/24/18	App:	M.A.H.
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By:			App:	
3				
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1"=40'

JOB No.

4012

SHEET NAME IMPROVEMENT PLAN