ADDENDUM NO. 1 TO BRO-B057(20) 5th STREET OVER PAGE BRANCH BRIDGE NO. 1315001 LINCOLN COUNTY, MO

December 10, 2020

You are instructed to read and note the following described changes, corrections, clarifications, omissions, deletions, additions, approvals, and statements pertinent to the Construction Documents.

Addendum No. 1 is a part of the Contract Bid and Construction Documents and shall govern in the performance of the Work.

Please note: Updated Itemized Proposal is included as a part of this Addendum for your use.

Revisions:

- 1. In accordance with manufacturer's recommendations, the Precast Concrete Box Girders are increasing to 18" deep and the concrete deck is decreasing to average 3" thick (4" at centerline to 2" at edge). Due to this change, the following items will be affected, and the changes are called out in attached sheets:
 - a. Plan Sheet 7 of 21, Note 11: 15" is to change to 18"
 - b. Plan Sheet 9 of 21, vertical dimension of Typical Section of Girder: 1'3" is to change to 1'6"
 - c. Plan Sheet 11 of 21
 - i. Callout "Concrete Deck (7" at centerline to 5" at edge)" is to change to Concrete Deck (4" at centerline to 2" at edge)
 - Callout "Conc Box Girders (15" Deep)" is to change to "Conc Box Girders (18" Deep)"
 - d. Plan Sheet 12 of 21
 - i. Callout "Concrete Deck (7" at centerline to 5" at edge)" is to change to Concrete Deck (4" at centerline to 2" at edge)
 - ii. Callout "Conc Box Girders (15" Deep)" is to change to "Conc Box Girders (18" Deep)"
 - e. Plan Sheet 16 of 21, Detail at Slab Drawing: Callout "TS 6"x3"x1/4"x3'9" (8'4" max spacing)" is to change to "TS 6"x3"x1/4"x3'6" (8'4" max spacing)"
- 2. With the deck thickness change described above, the reinforcing steel will now be epoxy coated. Due to this change, the following items will be affected, and the changes are called out in attached sheets:
 - a. Plan Sheet 7 of 21: Bid Item #28 will change from "Reinforcing Steel" to "Epoxy Coated Reinforcing Steel"
 - b. Itemized Proposal:
 - i. Bid Item Bid Item #28 will change from "Reinforcing Steel" to "Epoxy Coated Reinforcing Steel"
- 3. Reinforced Soil Foundation (RSF) quantities were not included in item no. 31 and 32 and therefore will be modified to include. Due to this change, the following items will be affected, and the changes are called out in attached sheets:
 - a. Plan Sheet 7 of 21:
 - i. Bid Item #31 "GRS-IBS Fabric" quantity is to be 1354 S.Y.
 - ii. Bid Item #32 "GRS-IBS Reinforced Backfill (3/4" Clean)" quantity is to be 250 C.Y.
 - b. Itemized Proposal:
 - i. Bid Item #31 "GRS-IBS Fabric" quantity is to be 1354 S.Y.
 - ii. Bid Item #32 "GRS-IBS Reinforced Backfill (3/4" Clean)" quantity is to be 250 C.Y.

- 4. Ameren Missouri Gas was not included in the Utility Section of the JSPs of the Specifications. Due to this change, the following items will be affected, and the changes are called out in attached sheets:
 - a. Specifications, JSP Section D:
 - i. Add: Ameren Missouri Gas, Contact: Vince Kaimann, cell phone: 636-485-4233, Ameren plans to be onsite when the gas line is uncovered to verify its location in reference to the bridge abutments. If the line is crossing within the foundations of the abutments, Ameren will sleeve in place and the concrete or RSF Foundations will be modified to accommodate. If the line interferes with the block wall, Ameren will plan to relocate along the west side of the roadway at that time.

ACKNOWLEDGEMENT: Each Bidder shall acknowledge receipt of Addendum No. 1 by their signature affixed hereto and shall file Addendum No. 1 with their bid.

Signature of Bidder

Contractor

By: _____

Title: _____

Date: _____

ITEMIZED PROPOSAL WORK PERFORMED BY THE CONTRACTOR

	1000					
LINE	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
ROA	DWAY	ITEMS				
1	201	Clearing & Grubbing (Approx 0.1 Acres)	L.S.	1		
2	202.30	Removal of Existing Improvements	L.S.	1		
3	203	Embankment in Place	C.Y.	74		
4	304	Aggregate Base Course (4in Layer MoDOT Type 1)	S.Y.	479		
5	310	Aggregate Surface (Shoulder) (13in Layer MoDOT Type 1)	S.Y.	76		
6	310	Aggregate Surface (Drive Entrance) (4in Layer 2" Minus)	S.Y.	45		
7	401	Plant Mix Bituminous Base (7in Layer BP-Base)	S.Y.	479		
8	401	Plant Mix Bituminous Pavement (2in Layer BP-1)	S.Y.	479		
9	604.20	Adjusting Drainage Facilities (Manhole Riser Ring)	EACH	1		
10	606.10	Guardrail Transition Section	EACH	4		
11	606.10	Type A Crashworthy End Terminal	EACH	3		
12	606.10	Type A Guardrail	L.F.	25		
13	606.10	Type A Rolled End Buffer	EACH	1		
14	627	Contractor Surveying & Staking	L.S.	1		
15	618	Mobilization	L.S.	1		
16	805	Seeding (includes Fertilizing & Mulching)	ACRE	0.1		
17	806.30	Ditch Checks	EACH	2		
18	806.70	Silt Fence	L.F.	80		
19	903	Highway Signage (Remove & Reinstall)	EACH	1.0		
		Roadway Subtota	l			
SIGN	NING IT	TEMS				
20	616	Type III Moveable Barricades	EACH	9		
21	616	Construction Signs	EACH	29		
		Signing Subtota				

ITEMIZED PROPOSAL WORK PERFORMED BY THE CONTRACTOR

LINE	ITEM NO.	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
RKII	OGE ITI	EMIS	F F			
22	206	Excavation for Structures	C.Y.	305.8		
23	216.10	Removal of Existing Bridge	L.S.	1		
24	611.30	Type 2 Rock Blanket	C.Y.	73		
25	624	Geotextile Fabric	S.Y.	154		
26	703	Class B-2 Concrete	C.Y.	19.2		
27	705	Precast Concrete Box Girders (40'-5 1/2") (Horiz.)	EACH	9		
28	706	Epoxy Coated Reinforcing Steel	LBS.	1,900		
29	713	Thrie Beam Guardrail on Bridge	L.F.	75		
30	720	GRS-IBS Retaining Wall	S.F.	837		
31	720	GRS-IBS Fabric	S.Y.	1,354		
32	720	GRS-IBS Reinforced Backfill (3/4" Clean)	C.Y.	250		
	Bridge Subtotal					
	Total Contractor					

ACKNOWLEDGEMENT: Each Bidder shall acknowledge receipt of addenda by their signature affixed hereto and addendum noted at the right by number.

Contractor:

Signature:

Name:

Email:

Addendum No.(s)

Phone:

Date:

(please print)

(please print)

2.0 In addition to the 911 emergency telephone number for ambulance, fire or police services, the following agencies may also be notified for accident or emergency situation within the project limits.

No additional for this project.

2.1 This list is not all inclusive. Notification of the need for wrecker or tow truck services will remain the responsibility of the appropriate police agency.

2.2 The contractor shall notify enforcement and emergency agencies before the start of construction to request their cooperation and to provide coordination of services when emergencies arise during the construction at the project site. When the contractor completes this notification with enforcement and emergency agencies, a report shall be furnished to the engineer on the status of incident management.

3.0 No direct pay will be made to the contractor to recover the cost of the communication equipment, labor, materials or time required to fulfill the above provisions.

D. <u>UTILITIES JSP-93-26C</u>

1.0 For informational purposes only, the following is a list of names, addresses, and telephone numbers of the <u>known</u> utility companies in the area of the construction work for this improvement:

<u>Utility Name</u>	<u>Known Requir</u> <u>Adjustment</u>	red <u>Action</u>
ALLIANCE WATER RESOURCES Justin Reaves Office – 636-358-6509 <u>jreaves@alliancewater.com</u>	Yes	Plan to move prior to construction
AMEREN MISSOURI ELECTRIC Tara Riney Office – 314-206-1079 Cell - 314-412-7291 <u>triney@ameren.com</u>	Yes	Contractor to notify Electric 2 weeks prior to construction to relocate pole.
ATT DISTRIBUTION Tim Bregenzer Cell – 618-210-2425 tb6879@att.com	No	None
CUIVRE RIVER ELECTRIC COOP Stan Winkle Office – 636-695-4841	Yes	Contractor to notify when Ameren is relocating pole
stanw@cuivre.com Ameren Missouri Gas Vince Kaimann Cell - 636-485-4233	Yes	Ameren plans to be onsite when the gas line is uncovered to verify it's location in reference to the bridge abutments. If the line is crossing within the foundations of the abutments, Ameren will sleeve in place and the concrete or RSF Foundations will be modified to accommodate. If the line interferes with the block wall, Ameren will plan to relocate along the west side of the roadway at that time.

LINE	ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	
DADWAY ITEMS	·				
1	201	Clearing & Grubbing (Approx 0.1 Acres)	L.S.	1	
2	202.30	Removal of Existing Improvements	L.S.	1	
3	203	Embankment in Place	C.Y.	74	_
4	304	Aggregate Base Course (4in Layer MoDOT Type 1)	S.Y.	479	_
5	310	Aggregate Surface (Shoulder) (13in Layer MoDOT Type 1)	S.Y.	76	-
6	310	Aggregate Surface (Drive Entrance) (4in Layer 2" Minus)	S.Y.	45	_
7 8	401 401	Plant Mix Bituminous Base (7in Layer BP-Base) Plant Mix Bituminous Pavement (2in Layer BP-1)	S.Y. S.Y.	479 479	-
9		Adjusting Drainage Facilities (Manhole Riser Ring)	EACH	475	-
10		Guardrail Transition Section	EACH	4	-
11		Type A Crashworthy End Terminal	EACH	3	1
12		Type A Guardrail	L.F.	25	
13	606.10	Type A Rolled End Buffer	EACH	1	
14	627	Contractor Surveying & Staking	L.S.	1	
15	618	Mobilization	L.S.	1	
16	805	Seeding (includes Fertilizing & Mulching)	ACRE	0.1	4
17	806.3	Ditch Checks	EACH	2	-
18		Silt Fence	L.F.	80	-
19	903	Highway Signage (Remove & Reinstall)	EACH	1.0	-
20	616	Type III Moveable Barricades	EACH	9	-
20	616	Construction Signs	EACH	29	-
	010		LACIT	25	-
22	206	Excavation for Structures	C.Y.	305.8	-
23	216.10	Removal of Existing Bridge	L.S.	1	-
24	611.30	Type 2 Rock Blanket	C.Y.	73	
25	624	Geotextile Fabric	S.Y.	154	
26	703	Class B-2 Concrete	C.Y.	19.2	
27	705	Precast Concrete Box Girders (40'-5 1/2") (Horiz.)	EACH	9	Epoxy Coated Reinforcin
28	706 -	Reinforcing Steel	LBS.	1900	
29	713	Thrie Beam Guardrail on Bridge	L.F.	75	-
30	720	GRS-IBS Retaining Wall	S.F.	837	
31 32	720	GRS-IBS Fabric GRS-IBS Reinforced Backfill (3/4" Clean)	S.Y. C.Y.	1237	250
THE PURPOSE QUANTITIES C IT SHALL BE RESOURCES,	E OF COM IN THE J THE RESI HISTORIC	I THESE PLANS ARE NOT GUARANTEED BY THE COUNTY IPARING BIDS AND AWARDING THE CONTRACT, AND MAY OB, SEE SPECIFICATIONS. PONSIBILITY OF THE CONTRACTOR TO SUBMIT FORM 106, PRESERVATION PROGRAM FOR ANY BORROW AREAS TO (MAKE INSPECTIONS OF THE WORK AND THE CONTRACT)	OR MAY NOT F , TO MISSOURI BE USED ON	REPRESENT THE A DEPARTMENT OF THIS PROJECT.	ACTUAL F NATURAL
ALL PARTS 0	F THE WO				
IT SHALL BE	THE RES	PONSIBILITY OF CONTRACTOR TO CONTACT ANY/ALL UTI CONSTRUCTION TO TAKE PLACE ALONG WITH MAINTAINING	lities and re	SOLVE RELOCATI	ION OR
COMPACTION	OF MATE	E SHALL INCLUDE HAULING AND REMOVING MATERIAL FRO RIAL AND EXCAVATION OF DITCHES TO MAKE GRADE SHO IAL PLACED PER PLAN REQUIREMENTS.			
		JCTURES SHALL INCLUDE ALL CLASSES OF EXCAVATION. ROCK IS ENCOUNTERED. ROCK IS ANTICIPATED TO BE E			
GRS-IBS REI	NFORCED	BACKFILL SHALL BE 3/4" CLEAN AGGREGATE.			
FABRIC OR E	QUIVALEN				
VERSA-LOK	8" T x 1	WALL UNIT BLOCKS SHALL BE DRY CAST AND MEET AST 8" L × 12 W OR EQUIVALENT. GIRDERS SHALL BE 15 [#] DEEP, CONVENTIONALLY REINFOR			
		CEPTABLE IF DESIGN PARAMETERS ARE MET).	SED AND SUL	D DOILL (FREDI	

GENERAL NOTES:

DESIGN SPECIFICATION:

2014 - AASHTO 7th EDITION LOAD & RESISTANCE FACTOR DESIGN

SITE CLASS C SEISMIC DESIGN CATEGORY

FOR MATERIALS AND CONSTRUCTION PROCEDURES THE CONTRACTOR SHALL FOLLOW THE SPECIFICATIONS AS STATED IN THE "MISSOURI CONSTRUCTION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 2019 AS AMENDED OR SUPPLEMENTED." IN ADDITION, REFER TO THE GENERAL AND JOB SPECIAL PROVISIONS WHICH SUPERCEDE THE "STANDARD SPECIFICATIONS" FOR VARIOUS ITEMS ON THIS PROJECT.

2001-AASHTO GUIDELINES FOR GEOMETRIC DESIGN OF VERY LOW VOLUME LOCAL ROADS (ADT < 400)

DESIGN LOADING:

HL-93 SOIL WT 120 LBS/ CU. FT.

EQUIVALENT FLUID PRESSURE 45 LBS. CU. FT. SUPERSTRUCTURE: SIMPLY-SUPPORTED, NON-COMPOSITE FOR DEAD LOAD AND LIVE LOAD. TOPPING SLAB MAY BE COMPOSITE WITH GIRDERS.

DESIGN UNIT STRESSES:

CLASS B-2 CONCRETE F'c = 4000 PSI REINFORCING STEEL (GRADE 60) Fy = 60000 PSI

REINFORCING STEEL:

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 11/2", UNLESS OTHERWISE SHOWN.

GEOTECHNICAL INVESTIGATION:

A GEOTECHNICAL INVESTIGATION WAS PERFORMED AT THIS SITE. REFER TO THE GEOTECHNICAL REPORT FOR INFORMATION REGARDING ROCK ELEVATIONS FOR GRS-IBS ABUTMENT BEARINGS.

ACCEPTANCE OF PRECAST GIRDERS:

THE FOLLOWING PROCEDURES HAVE BEEN ESTABLISHED FOR THE ACCEPTANCE OF PRECAST GIRDERS; SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. THE APPROVAL WILL COVER ONLY THE GENERAL DESIGN FEATURES, AND IN NO CASE SHALL THIS APPROVAL BE CONSIDERED TO COVER ERRORS OR OMISSIONS IN THE SHOP DRAWINGS. THE LOCAL AGENCY OR THEIR CONSULTANT HAS THE OPTION OF INSPECTING THE PRECAST UNITS DURING FABRICATION OR REQUIRING THE FABRICATOR TO FURNISH A CERTIFICATION OF CONTRACT COMPLIANCE AND SUBSTANTIATING TEST REPORTS. IN ADDITION, THE FOLLOWING REPORTS WILL BE REQUIRED.

1. CERTIFIED MILL TEST REPORTS, INCLUDING RESULTS OF PHYSICAL TESTS ON THE PRESTRESSED STRANDS, AND REINFORCEMENT AS REQUIRED.

2. TEST REPORTS ON CONCRETE CYLINDER BREAKS.

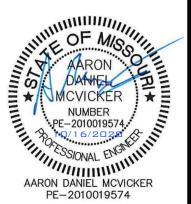
THE LOCAL AGENCY OR CONSULTANT MUST VERIFY AND DOCUMENT THAT DIMENSIONS OF THE UNITS WERE CHECKED AT THE JOB AND FOUND TO BE IN COMPLIANCE WITH THE SHOP DRAWINGS.

DIG-RITE:

THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSIONER. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, AND OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. THE NAMES AND TELEPHONE NUMBERS OF UTILITY COMPANIES, EVEN IF ONLY REMOTELY INVOLVED WITH THIS PROJECT ARE SHOWN ON TITLE SHEET.

ABBREVIATIONS:

BRG = BEARINGCLR = CLEARCONST= CONSTRUCTION DIA = DIAMETERFB = FND BENTEF = EACH FACE ELEV = ELEVATIONEQ = EQUALFF = FAR FACEMAX = MAXIMUMMIN = MINIMUMNF = NEAR FACESPA = SPACES SYMM = SYMMETRICAL TYP = TYPICAL





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1901 Pennsylvania Drive Columbia, MO 65202 P 573-814-1568

NOTICE

McClure Engineering Company waives an and all responsibility and liability for problems which arise from failure to follow these Plans, Specifications, and the engineering intent they convey, or for roblems which arise from failure to obtai nd/or follow the engineers guidance with respect to any errors, omissions, nconsistencies, ambiguities, or conflicts which are alleged.

MISSOURI CERTIFICATE OF AUTHORITY NO. E-2006023253 EXPIRES: DECEMBER 31, 2020

LINCOLN COUNTY, MISSOURI

BRO-B057(20) BRIDGE NO. 1315001

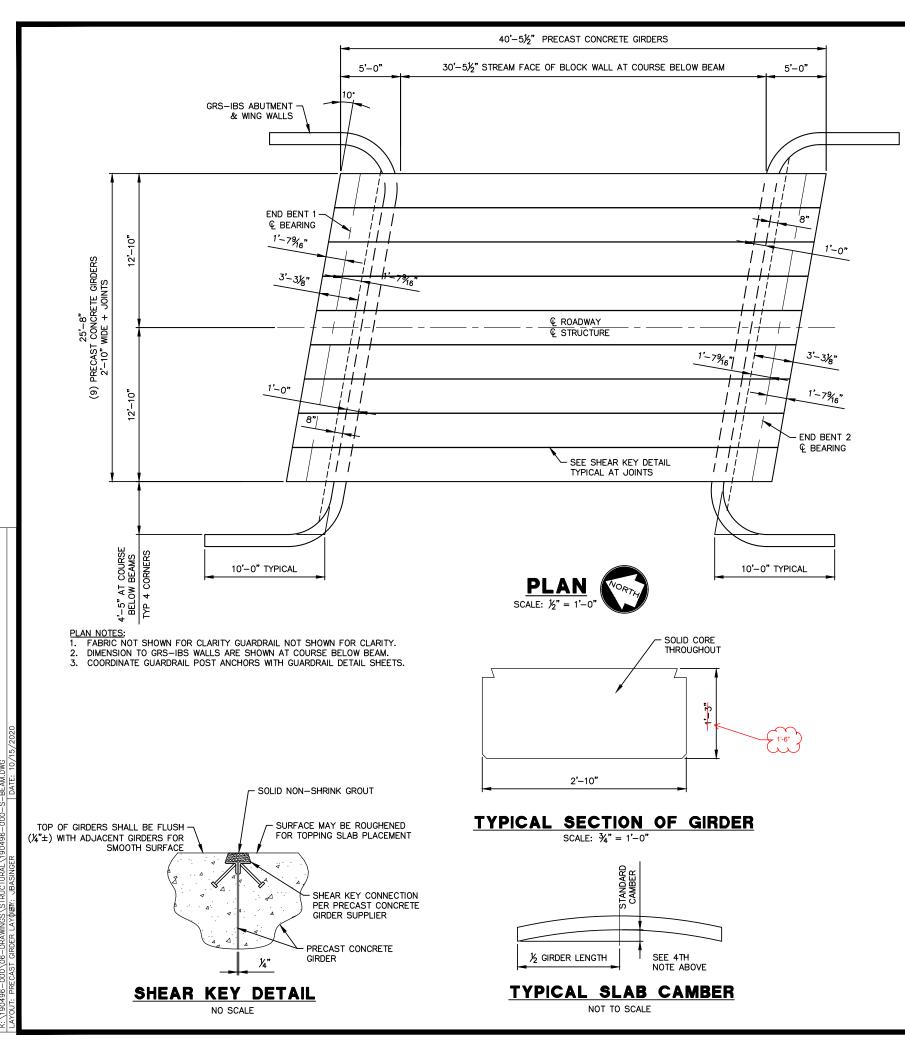
GENERAL NOTES & QUANTITIES CITY OF ELSBERRY - 5TH STREET 190496-000 10/15/2020

REVISION

ENGINEER DRB	
CHECKED BY	

JJB FIELD BOOK NO

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GENERAL NOTES

- 1. HL-93 DESIGN LOAD
- 2. CONVENTIONAL OR PRESTRESSED REINFORCEMENT MAY BE USED.
- THE FOLLOWING TRUCKS. HL-93 HS20-44



- 4. GIRDER FABRICATOR TO PROVIDE DEAD LOAD CAMBER DIMENSION.
- 6. SUITABLE ANCHORAGE DEVICES FOR LIFTING GIRDERS MAY BE CAST IN GIRDERS PROVIDED THEY ARE SHOWN ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER.
- 7. END OF GIRDERS SHALL BE COATED WITH BITUMINOUS COATING.
- 8. GIRDERS SHALL BE SOLID CORE, WITH NO VOIDS OR CHANNEL SHAPES.
- 9. NON-SHRINK GROUT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS TO AVOID CRACKING.

3. GIRDER FABRICATOR SHALL PROVIDE LOAD RATING CALCULATIONS SEALED BY A MISSOURI PROFESSIONAL ENGINEER. RATINGS SHALL INCLUDE INVENTORY & OPERATING RATING FOR

- 5. GIRDER SHALL HAVE CONCRETE SLAB OVERLAY, SEE GRS-IBS WALL ELEVATION SHEETS.



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BRO-B057(20) BRIDGE NO. 1315001

PRECAST GIRDER LAYOUT

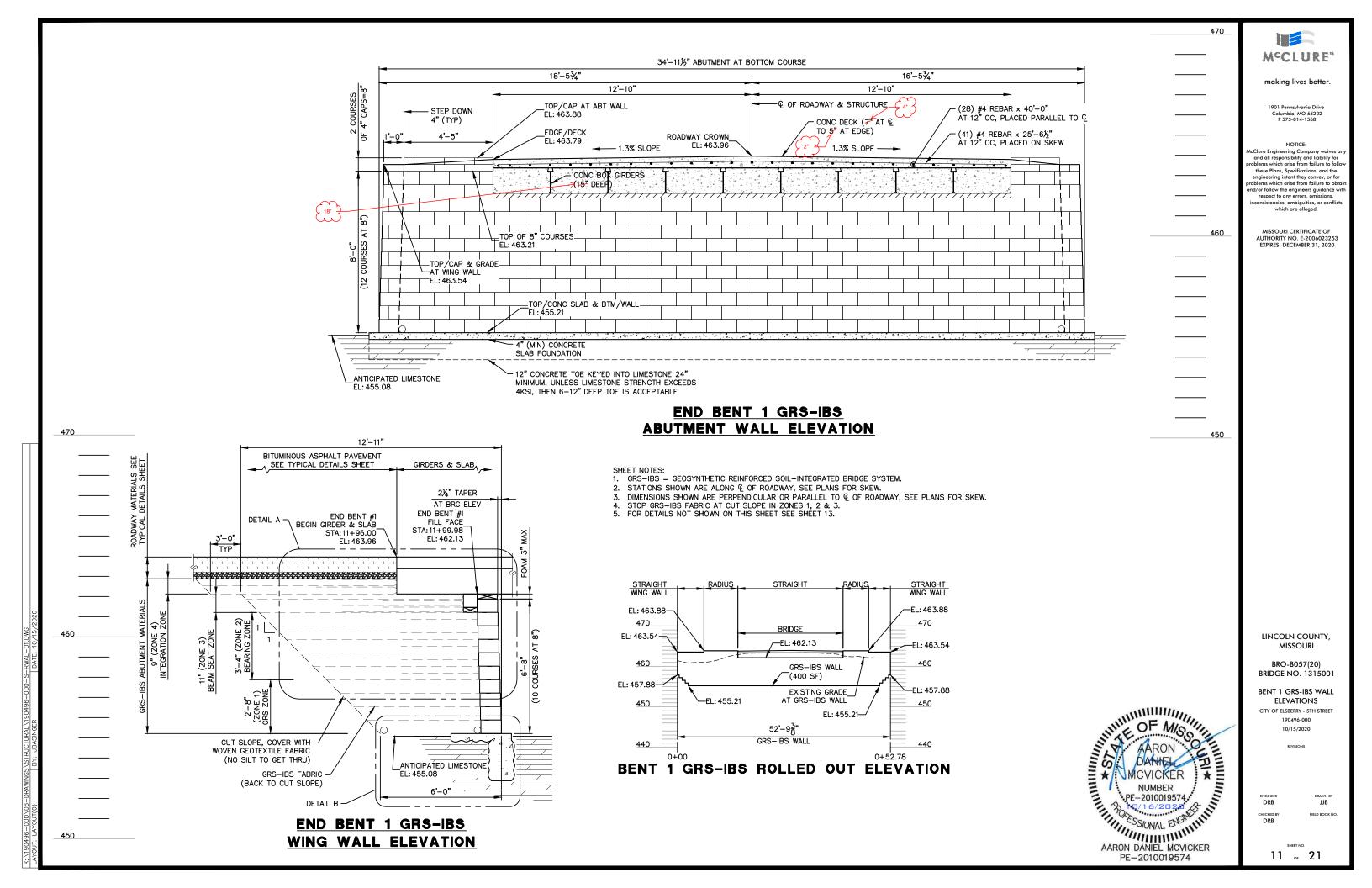
CITY OF ELSBERRY - 5TH STREET 190496-000 10/15/2020

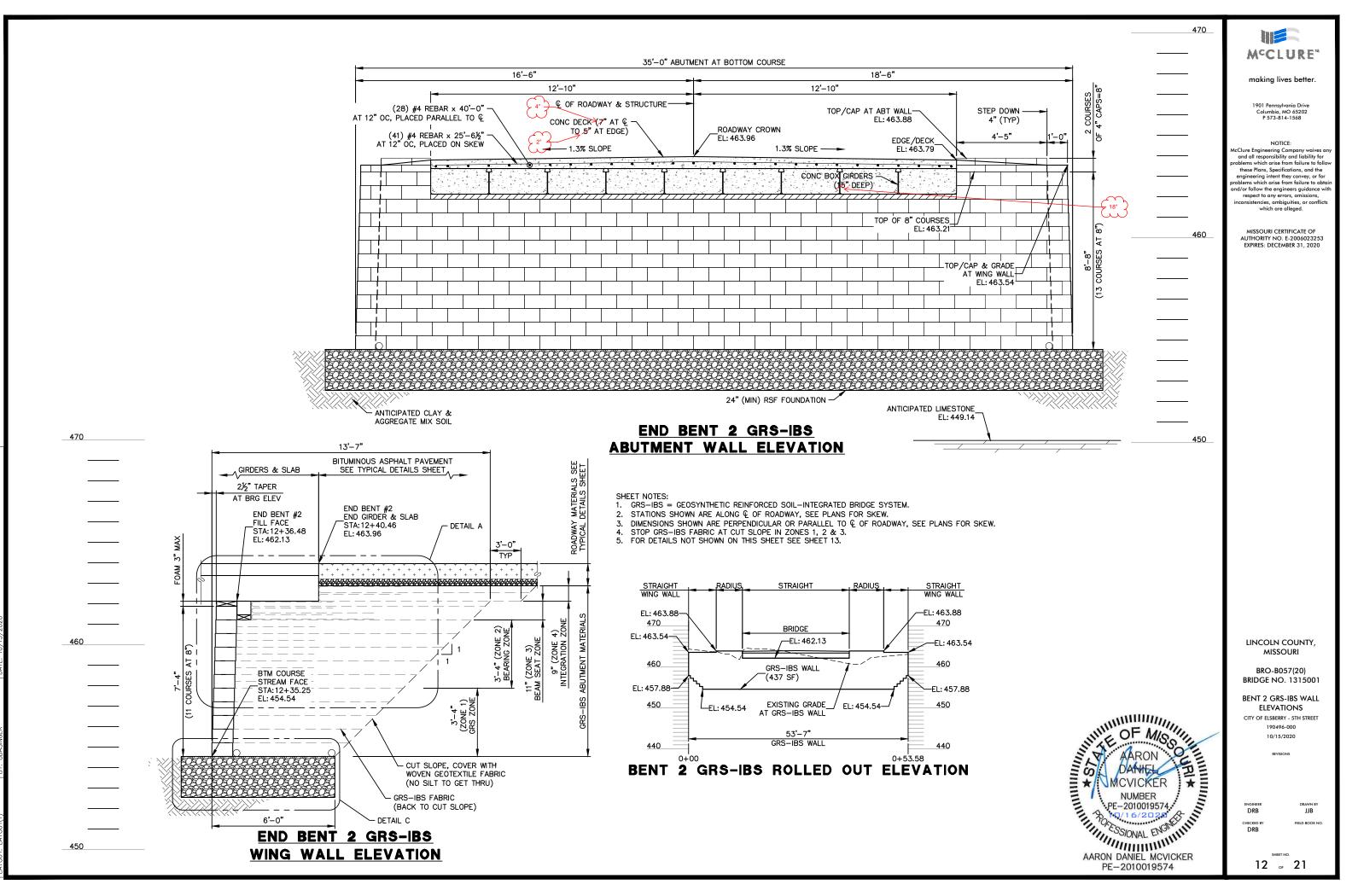
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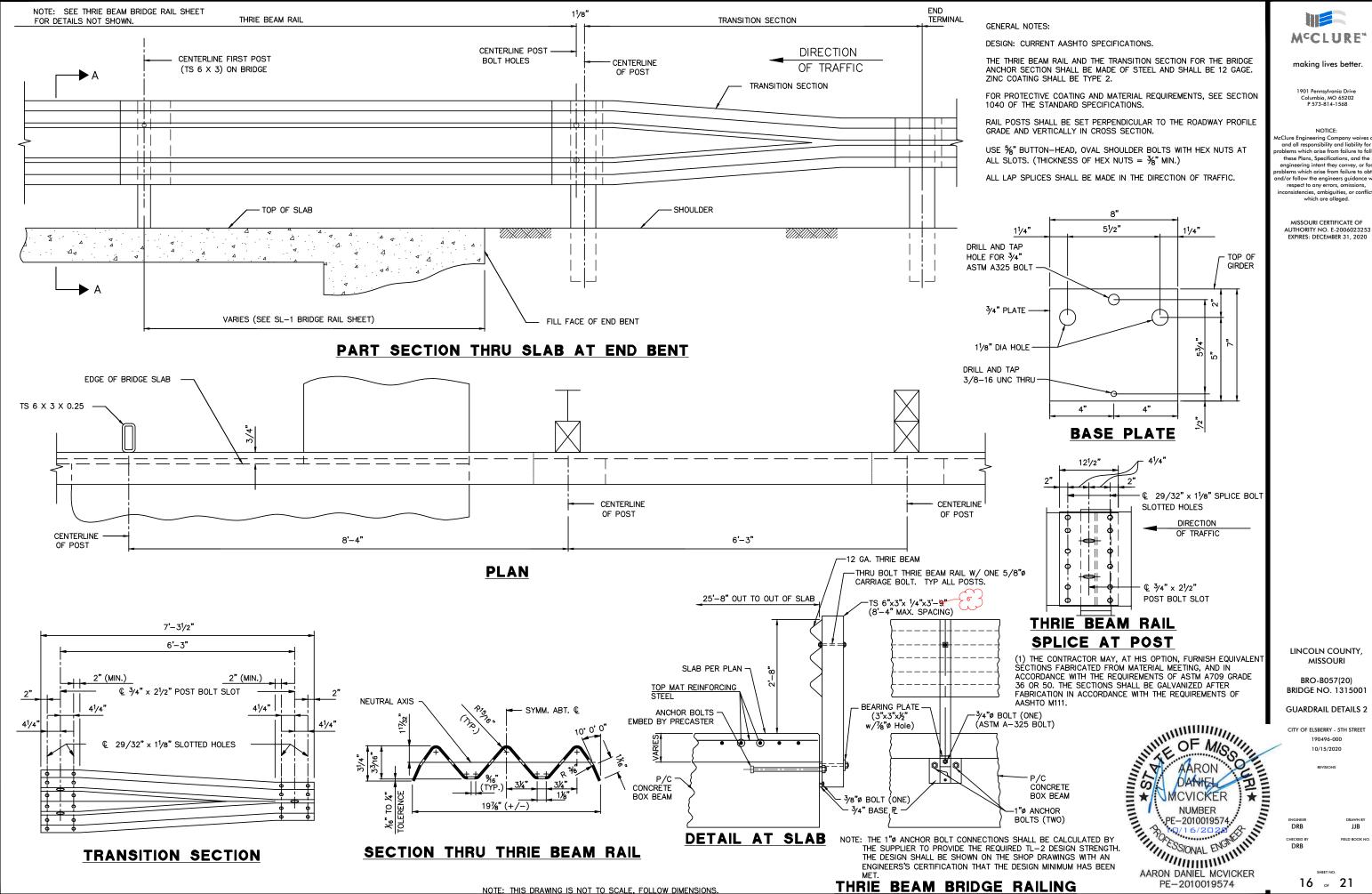
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JJB FIELD BOOK NO

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AUTHORITY NO. E-2006023253

FIELD BOOK NO