

Executive Summary of the Route 54 Intersection Safety Improvements Study

The Route 54 Intersection Safety Improvements project for Cole and Miller Counties was a study commissioned by the Missouri Department of Transportation Central District.

The area examined extends thirty (30) miles from Route E (near Brazito) west to Wood River Road (near Lake Ozark). It is a rural, multi-lane divided corridor with numerous side roads and driveways that have direct access to the highway.

The study consisted of public engagement/comment, analysis of existing conditions, and data collection. The study brings together the interests of the year-round and seasonal commuters, residents, business owners, multiple municipalities, and other vital stakeholders in an effort to enhance safety along the subject corridor.

Included with this executive summary are the suggested intersection improvements, which reflect the recommendations of the study team and generally include the following solutions: intersection consolidation and/or closures; alignment and profile improvements; various median U-turn configurations; and, grade separation. The alternatives are conceptual in nature and are subject to change under the discretion of the Missouri Department of Transportation once the final design process is undertaken.

The following Route 54 at-grade intersections were included in the safety study:

- Route E
- Gray Road
- Old Bass Road / Brown Road
- Fall Hill Road
- Quail Road / Sandy Fork Road
- United Road
- Hickory Hill / Clark Fork Road
- Penny Hollow
- Route AA
- Hunter Road/ Opie Road
- Atchinson Road
- County Road MM
- Frank Road / Haynes Ranch
- Kent Road
- Route FF
- Cave Drive
- Midway Road/ Jamie Lane / Mt. Carmel
- County Road 54-60 / Tolwood
- Copperhead Road
- Allen Road
- Howser Road
- Walnut Grove
- Route V/ Riley Mead Lane Road
- Lakeland Drive
- Private drives
- Isleworth Island Road
- (Osage) River Bridge Road/River Road
- Wood River Road

Figure 1 Location Map





ROUTE E
ALTERNATIVE 2
CROSS TO BULB OUT
U-TURN SHIFT

ESTIMATED
CONSTRUCTION COST
\$1,050,700

CONCEPTUAL PLANS
SUBJECT TO CHANGE
NOT FOR CONSTRUCTION

- LEGEND**
- EXIST. PROPERTY LINE
 - EXIST. R/W
 - DIRECTION OF TRAVEL
 - PROPOSED ALTERNATIVE
 - CROSSING REMOVAL



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JEFFERSON CITY, MO 65102
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ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

DATE 1/7/2020		DATE PREPARED 1/7/2020	
ROUTE 54	STATE MO	DISTRICT C	SHEET NO.
COUNTY MILLER/COLE		JOB NO. J5P3222	CONTRACT NO. 14110
PROJECT NO.		BRIDGE NO.	

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE WEST TOWARD SANDY FORK INTERSECTION

MATCHLINE EAST TOWARD GRAY ROAD INTERSECTION

THIS MECHANICAL SEALING SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.

DATE
1/7/2020

DATE PREPARED
1/7/2020

ROUTE
54

STATE
MO

DISTRICT
C

SHEET NO.
1

COUNTY
MILLER/COLE

JOB NO.
J5P3222

CONTRACT ID.
1411

PROJECT NO.
1411

EDITION NO.
1

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

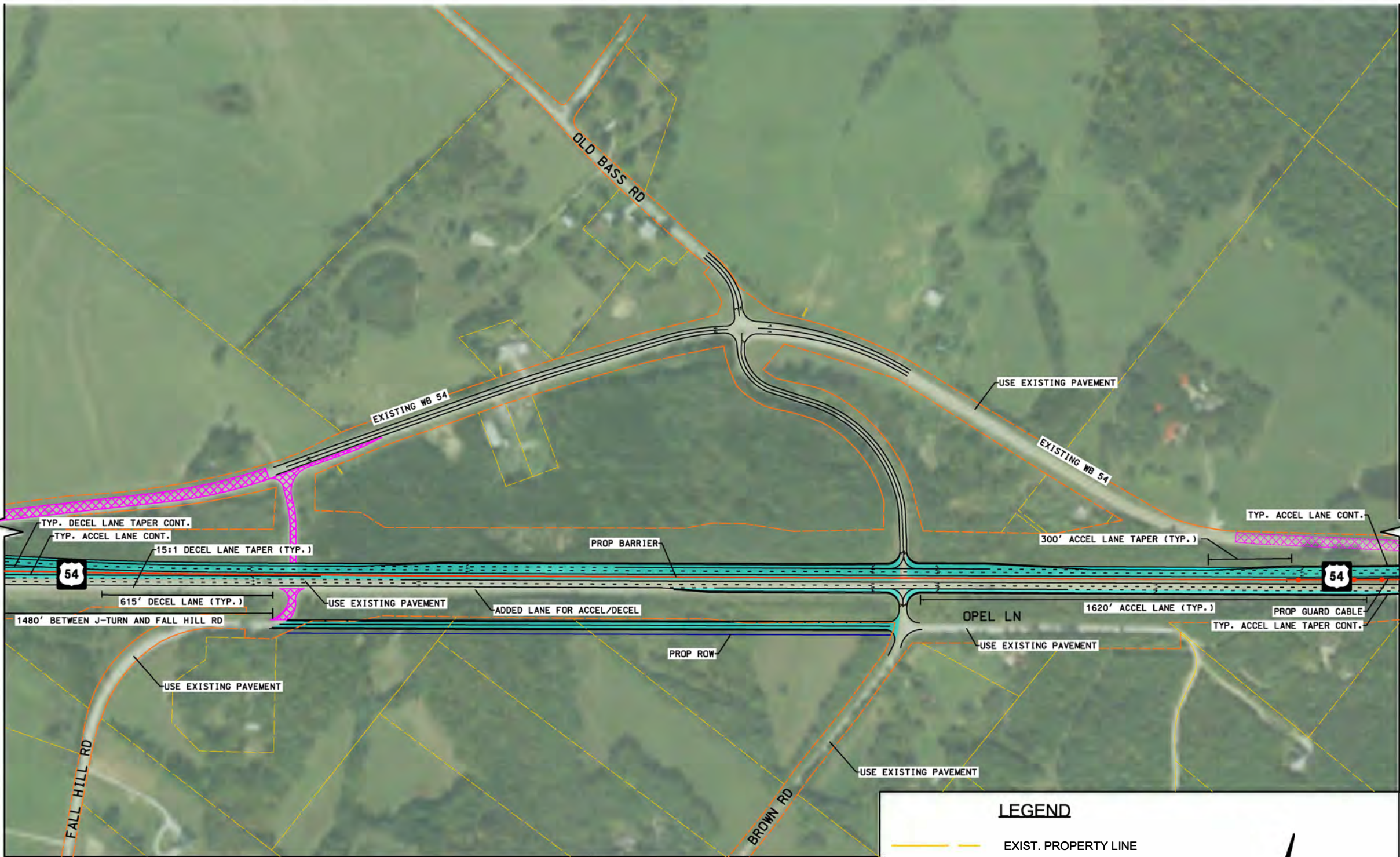
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<p>FALL HILL ROAD OLD BASS/BROWN ROAD GRAY ROAD ALTERNATIVE 2.3 SHEET 1 OF 2 REALIGN, J-TURNS BARRIER, USE CROSSOVER</p>	<p>ESTIMATED CONSTRUCTION COST \$14,165,800</p>	<p>CONCEPTUAL PLANS SUBJECT TO CHANGE NOT FOR CONSTRUCTION</p>	<p>LEGEND</p> <ul style="list-style-type: none">EXIST. PROPERTY LINEEXIST. R/WDIRECTION OF TRAVELPROPOSED ALTERNATIVECROSSING REMOVAL <p>SCALE 0 200 400 600 800 1000</p>
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MATCHLINE EAST TOWARD FALL HILL INTERSECTION

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DATE
1/7/2020

DATE PREPARED
1/7/2020

ROUTE
54

DISTRICT
C

STATE
MO

SHEET NO.

COUNTY
MILLER/COLE

JOB NO.
J5P3222

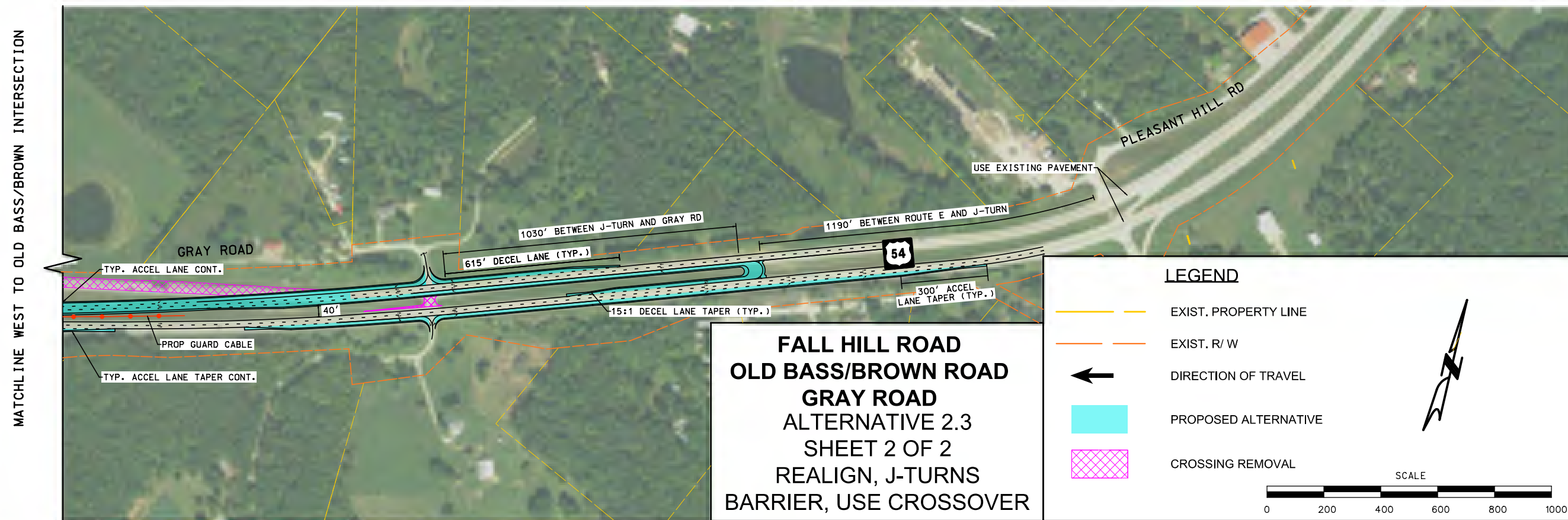
CONTRACT ID.
14118

PROJECT NO.

BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

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MATCHLINE WEST TO OLD BASS/BROWN INTERSECTION

**FALL HILL ROAD
OLD BASS/BROWN ROAD
GRAY ROAD
ALTERNATIVE 2.3
SHEET 2 OF 2
REALIGN, J-TURNS
BARRIER, USE CROSSOVER**

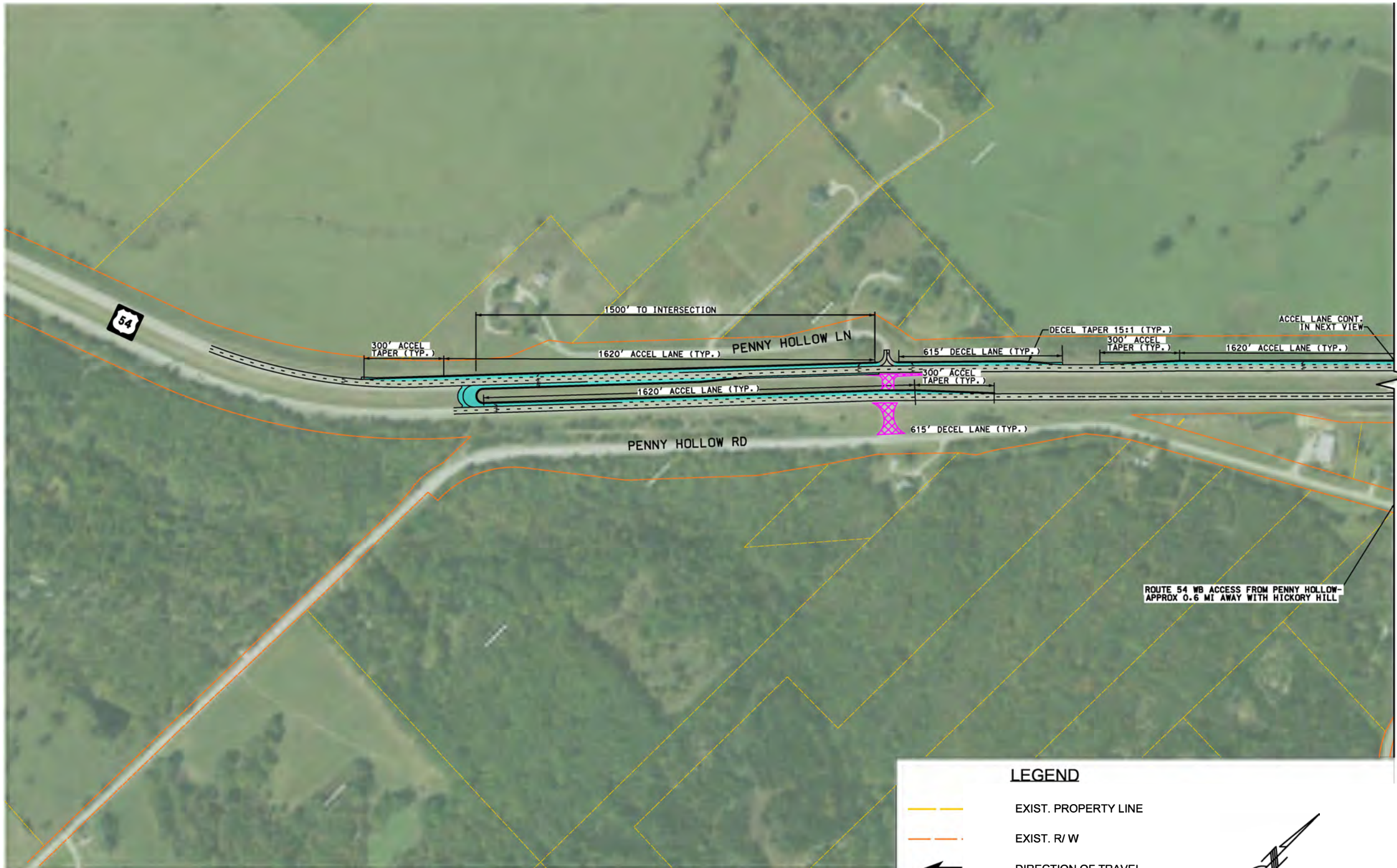
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**HICKORY HILL/CLARK FORK
PENNY HOLLOW
ALTERNATIVE 1
SHEET 1 OF 2
2 J-TURN ADDITIONS, REMOVE
PENNY HOLLOW RD ACCESS**

**ESTIMATED
CONSTRUCTION COST
\$2,496,400**

**CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR CONSTRUCTION**

LEGEND

- EXIST. PROPERTY LINE
- EXIST. R/W
- DIRECTION OF TRAVEL
- PROPOSED ALTERNATIVE
- CROSSING REMOVAL

SCALE

0 200 400 600 800 1000

MATCHLINE EAST TO HICKORY HILL/CLARK FORK INTERSECTION

THIS DRAWING SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT.

DATE: 1/7/2020
DATE PREPARED: 1/7/2020
ROUTE: 54 STATE: MO
DISTRICT: C SHEET NO.:
COUNTY: MILLER/COLE
JOB NO.: J5P3222
CONTRACT ID.: 1411
PROJECT NO.:
BRIDGE NO.:

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

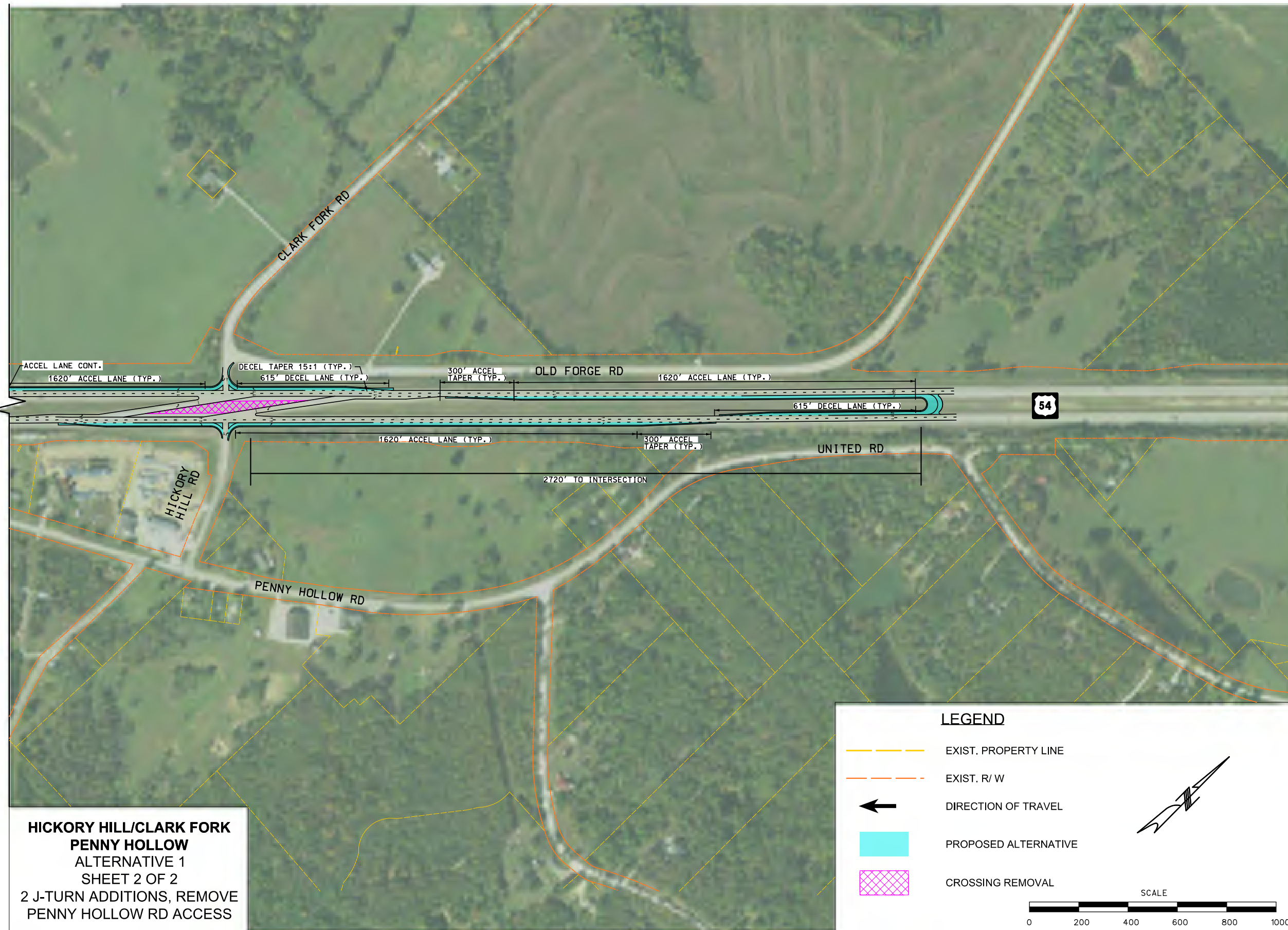
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REV.:

HAS BEEN ELECTRONICALLY SEALED AND DATED.

MATCHLINE EAST TO PENNY HOLLOW INTERSECTION



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DATE
1/7/2020

DATE PREPARED
1/7/2020

ROUTE
54

STATE
MO

DISTRICT
C

SHEET NO.

COUNTY
MILLER/COLE

JOB NO.
J5P3222

CONTRACT ID.
14118

PROJECT NO.

BRIDGE NO.

ROUTE 54 SAFETY STUDY

MILLER TO COLE COUNTY

ALTERNATE PLAN

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REV.

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ROUTE AA
ALTERNATIVE 2
LEFT IN LEFT OUT,
NO OLD HWY ACCESS

ESTIMATED
CONSTRUCTION COST
\$917,700

CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR CONSTRUCTION

LEGEND

- EXIST. PROPERTY LINE
- EXIST. R/W
- ← DIRECTION OF TRAVEL
- PROPOSED ALTERNATIVE
- CROSSING REMOVAL

SCALE
0 200 400 600 800 1000

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DATE
1/7/2020

DATE PREPARED
1/7/2020

ROUTE
54

STATE
MO

DISTRICT
C

SHEET NO.
1

COUNTY
MILLER/COLE

JOB NO.
J5P3222

CONTRACT ID.
1411

PROJECT NO.

BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

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EXIST. PROPERTY LINE

EXIST R/W

DIRECTION OF TRAVEL

PROPOSED ALTERNATIVE

TREE CLEARING

SCALE

0100200300400500

HUNTER ROAD / OPIE ROAD ALTERNATIVE 1A TREE CLEARING ALTERNATIVE 1B AUXILARY LANES	ESTIMATED CONSTRUCTION COST \$664,400	CONCEPTUAL PLANS SUBJECT TO CHANGE NOT FOR CONSTRUCTION
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DOCUMENT."

DATE

DATE PREPARED
01/31/2020

ROUTE
54

STATE
MO

DISTRICT
C

SHEET NO.
10-1

COUNTY
MILLER/COLE

JOB NO.
J5P3222

CONTRACT ID.
14118

PROJECT NO.

BRIDGE NO.

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MILLER TO COLE COUNTY
ALTERNATE PLAN

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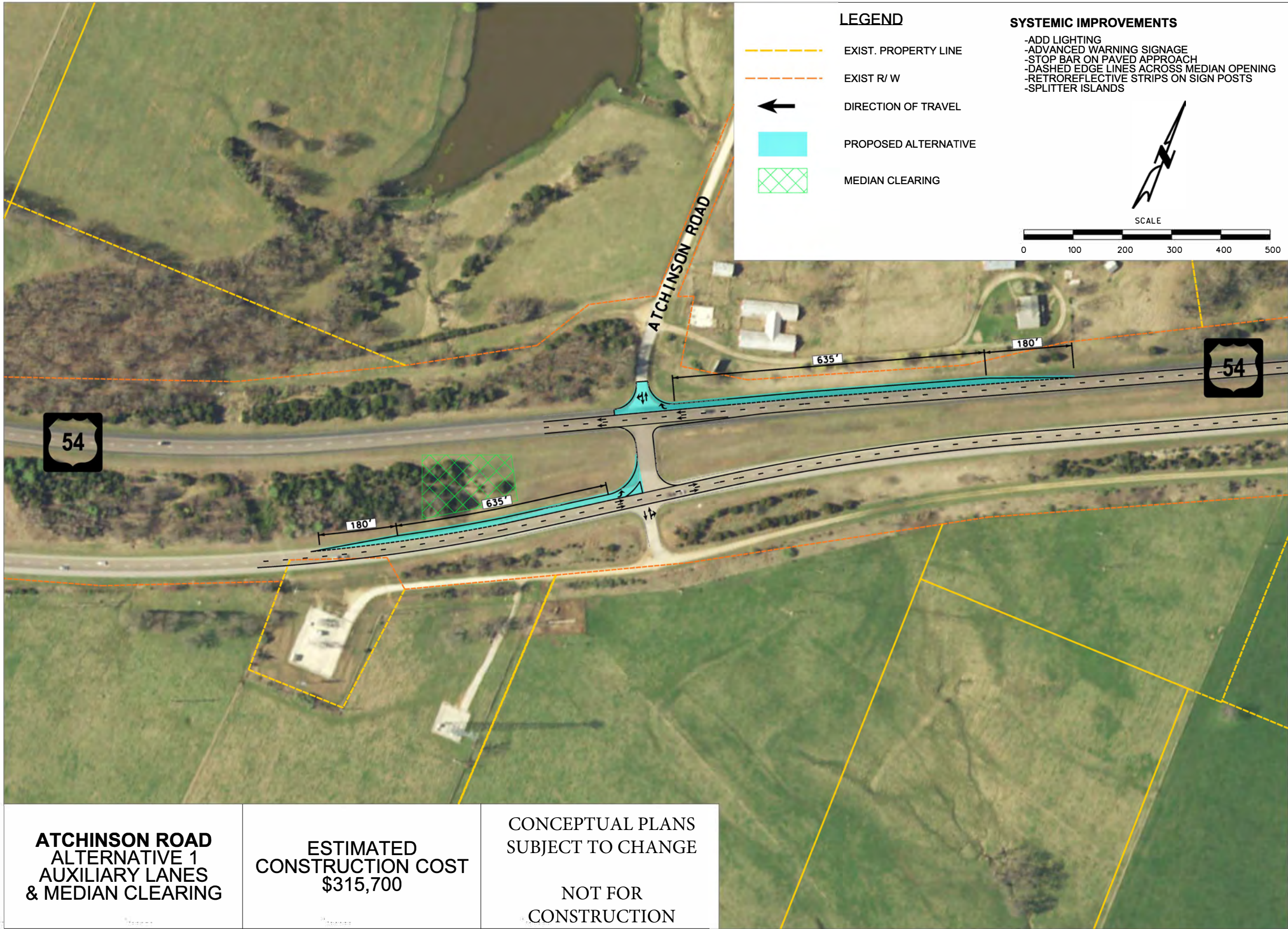
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DATE	
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01/31/2020	
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54	MO
DISTRICT	SHEET NO.
C	11-1
COUNTY	
MILLER/COLE	
JOB NO.	
J5P3222	
CONTRACT ID.	
14118	
PROJECT NO.	
BRIDGE NO.	

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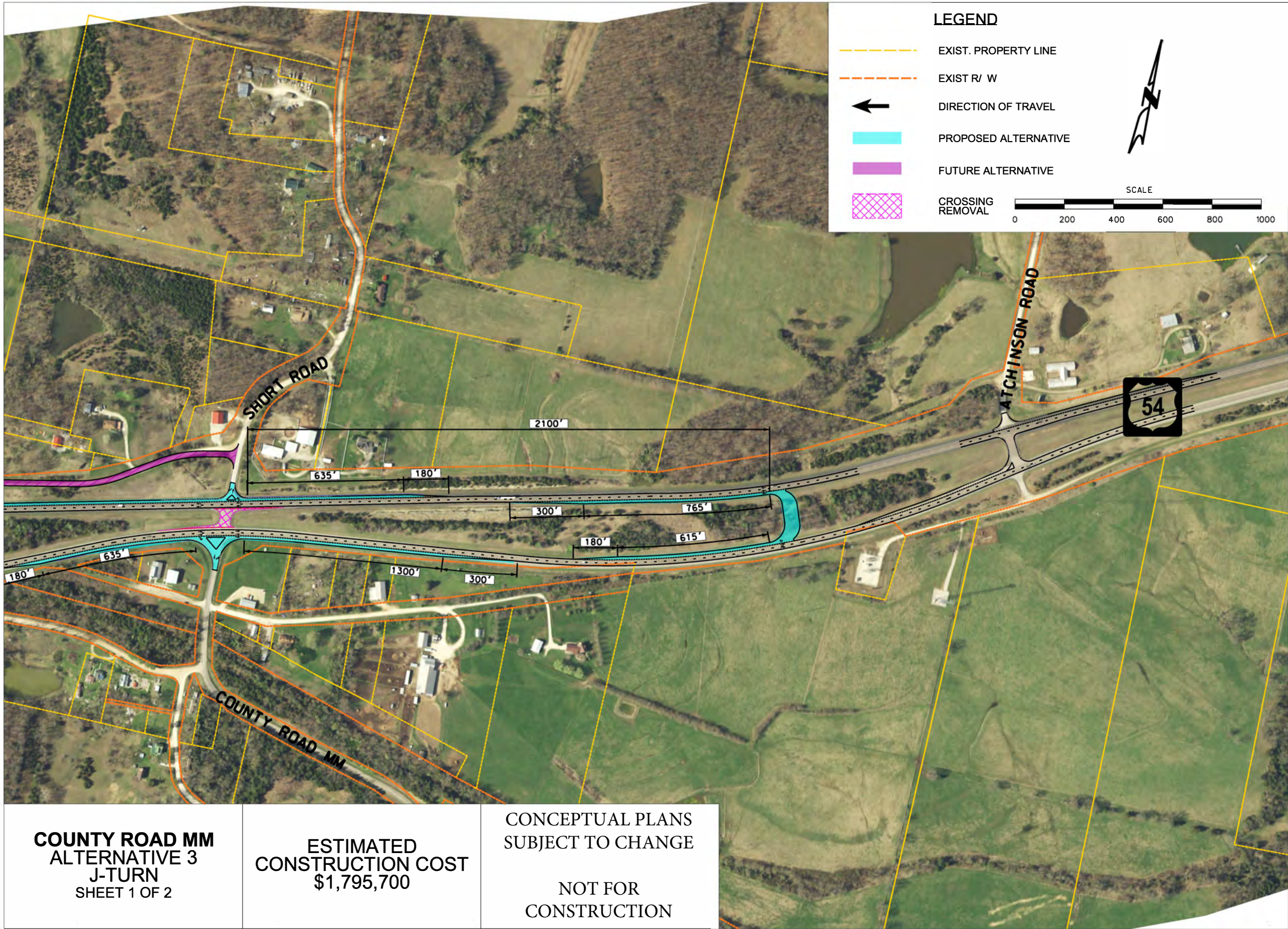
CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR
CONSTRUCTION

ESTIMATED
CONSTRUCTION COST
\$315,700

ATCHINSON ROAD
ALTERNATIVE 1
AUXILIARY LANES
& MEDIAN CLEARING

SEE SHEET 2 OF 2



COUNTY ROAD MM
ALTERNATIVE 3
J-TURN
SHEET 1 OF 2

ESTIMATED
CONSTRUCTION COST
\$1,795,700

CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR
CONSTRUCTION

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DATE

DATE PREPARED
1/9/2020

ROUTE 54 STATE MO
DISTRICT C SHEET NO. 12-3A

COUNTY MILLER/COLE
JOB NO. J5P3222
CONTRACT ID. 14118
PROJECT NO.
BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

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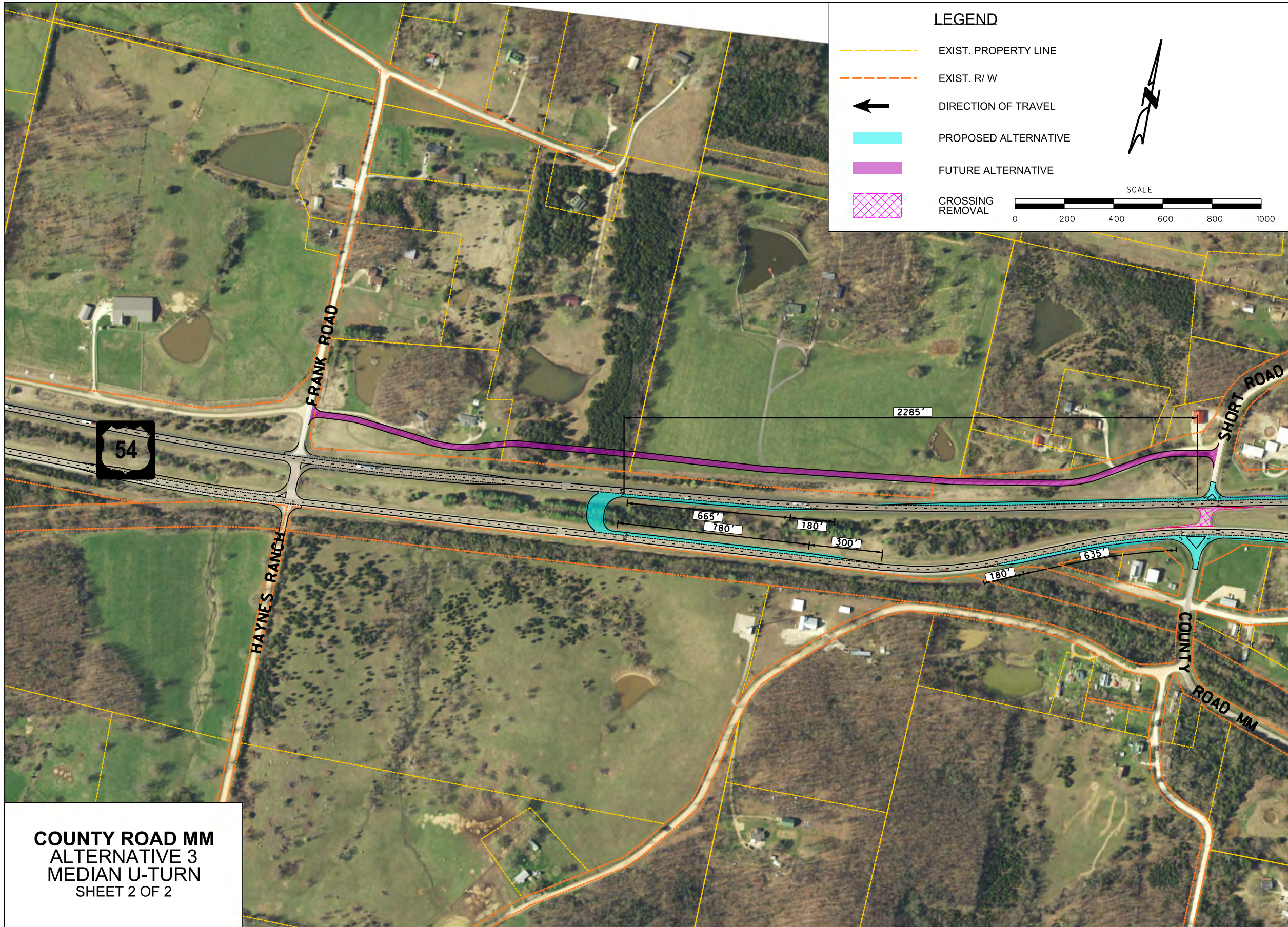
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COUNTY ROAD MM
ALTERNATIVE 3
MEDIAN U-TURN
SHEET 2 OF 2

LEGEND

- EXIST. PROPERTY LINE
 - EXIST. R/ W
 - DIRECTION OF TRAVEL
 - PROPOSED ALTERNATIVE
 - FUTURE ALTERNATIVE
 - CROSSING REMOVAL
- SCALE
0 200 400 600 800 1000

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DOCUMENT."

DATE	
DATE PREPARED 1/9/2020	
ROUTE 54	STATE MO
DISTRICT C	SHEET NO. 12-3B
COUNTY MILLER/COLE	
JOB NO. J5P3222	
CONTRACT ID. 14118	
PROJECT NO.	
BRIDGE NO.	

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

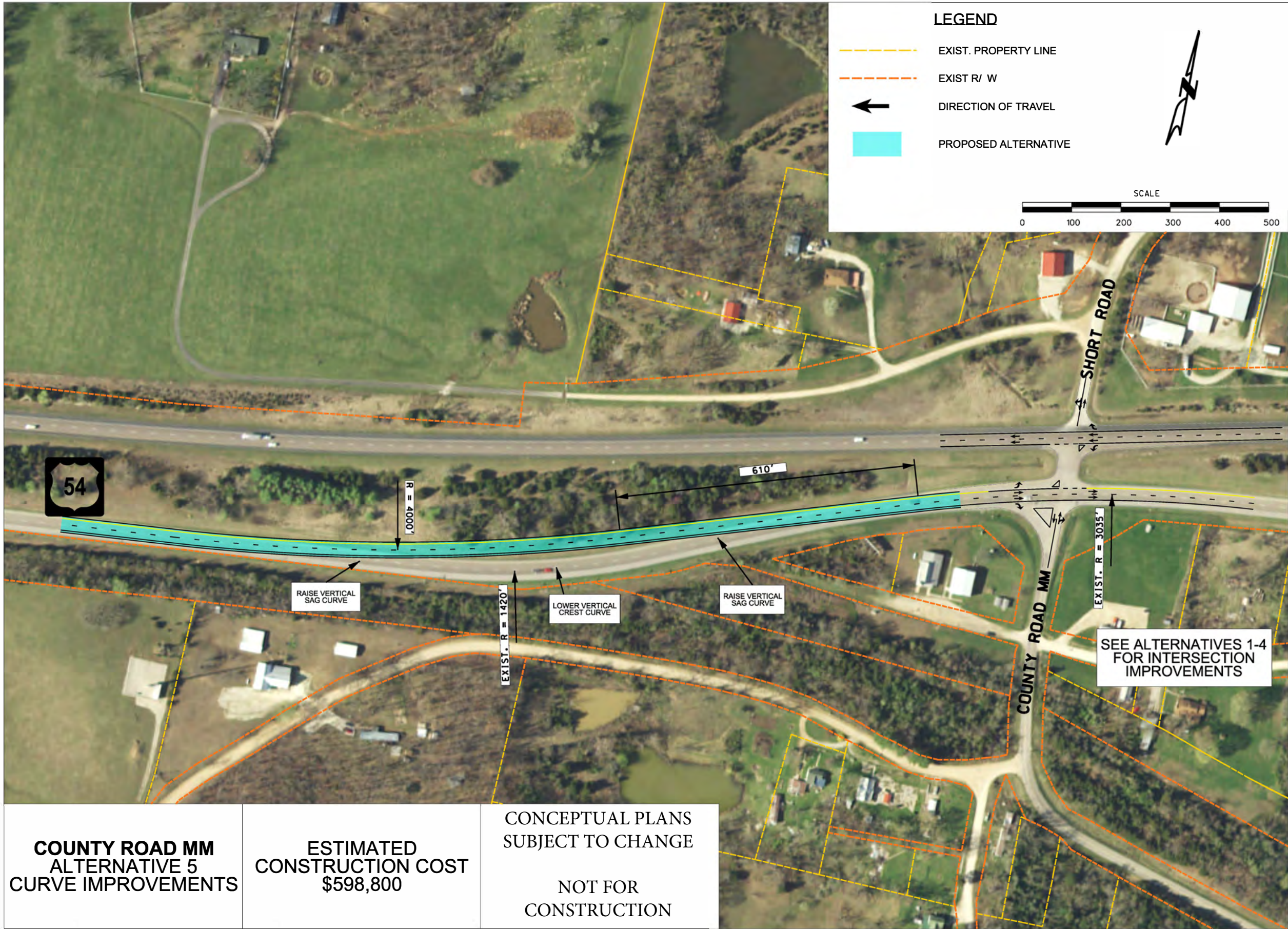
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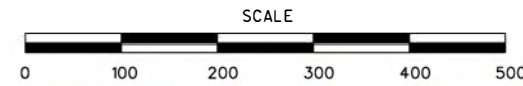
SEE SHEET 1 OF 2



COUNTY ROAD MM ALTERNATIVE 5 CURVE IMPROVEMENTS	ESTIMATED CONSTRUCTION COST \$598,800	CONCEPTUAL PLANS SUBJECT TO CHANGE NOT FOR CONSTRUCTION
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LEGEND

- EXIST. PROPERTY LINE
- EXIST R/ W
- DIRECTION OF TRAVEL
- PROPOSED ALTERNATIVE



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DATE	
DATE PREPARED 1/9/2020	
ROUTE 54	STATE MO
DISTRICT C	SHEET NO. 12-5
COUNTY MILLER/COLE	
JOB NO. J5P3222	
CONTRACT ID. 14118	
PROJECT NO.	
BRIDGE NO.	

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

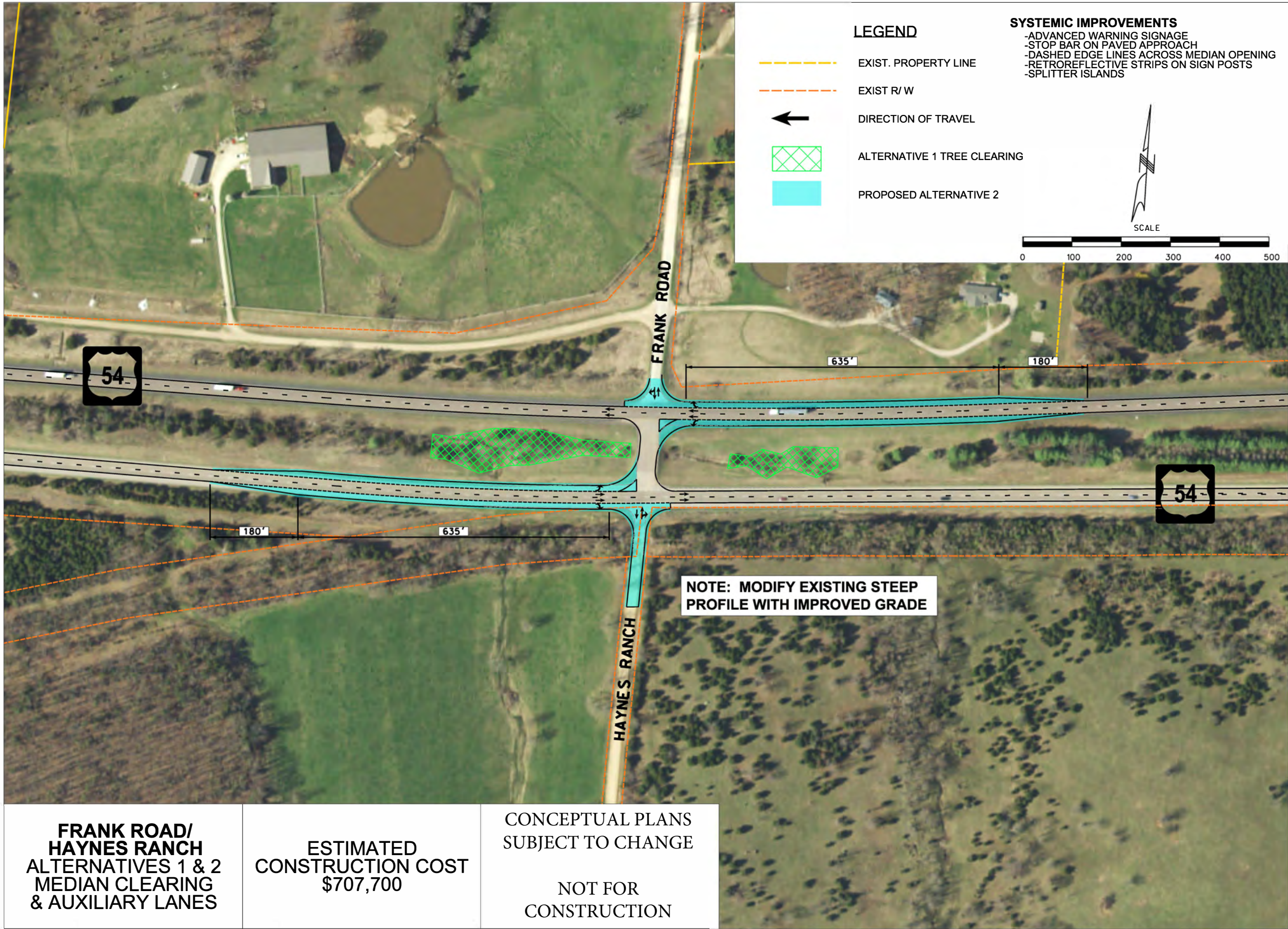
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DATE	
DATE PREPARED	
1/9/2020	
ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
C	13-1
COUNTY	
MILLER/COLE	
JOB NO.	
J5P3222	
CONTRACT ID.	
14118	
PROJECT NO.	
BRIDGE NO.	

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

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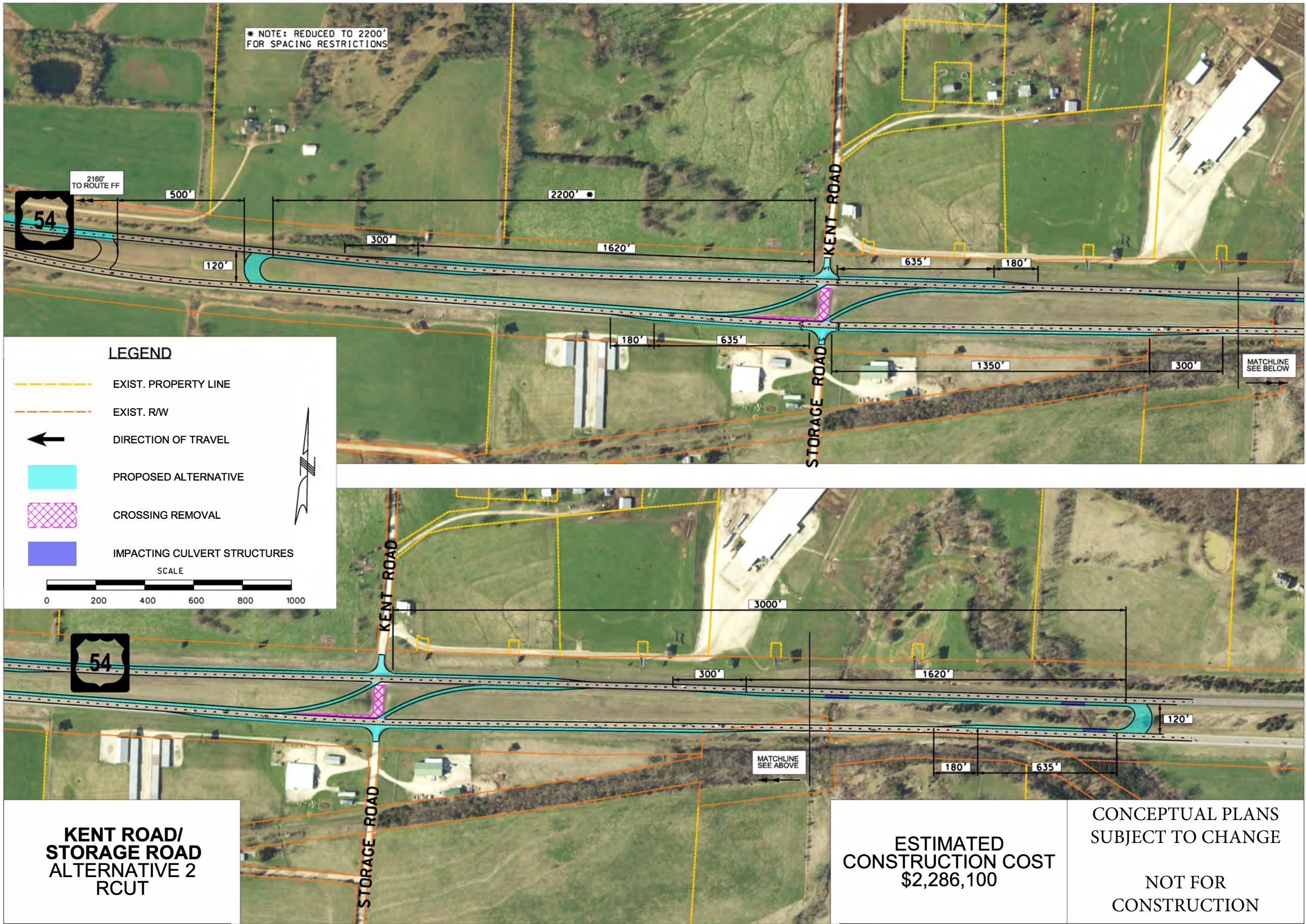
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DATE

DATE PREPARED

1/9/2020

ROUTE STATE

54 MO

DISTRICT SHEET NO.

C 14-2

COUNTY

MILLER/COLE

JOB NO.

J5P3222

CONTRACT ID.

14118

PROJECT NO.

BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR
CONSTRUCTION

ESTIMATED
CONSTRUCTION COST
\$3,042,000

**ROUTE FF
ALTERNATIVE 2
MODIFIED R-CUT
BUS 54 U-TURN**

"THIS MEDIA SHOULD
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A CERTIFIED
DOCUMENT."

DATE
DATE PREPARED
1/9/2020
ROUTE
54
STATE
MO
DISTRICT
C
SHEET NO.
15-2
COUNTY
MILLER/COLE
JOB NO.
J5P3222
CONTRACT ID.
14118
PROJECT NO.
BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

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EXIST. PROPERTY LINE

EXIST. R/W

DIRECTION OF TRAVEL

PROPOSED ALTERNATIVE

CROSSING REMOVAL

SCALE

0

200

400

600

800

1000

4700'

CAVE DRIVE

54

CO RD 54 64

MIDWAY ROAD

52

54

CAVE DRIVE
ALTERNATIVE 3
CLOSE CROSSING
AND ACCESS TO 54

ESTIMATED
CONSTRUCTION COST
\$1,496,500

CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR
CONSTRUCTION

"THIS MEDIA SHOULD
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DOCUMENT."

DATE

DATE PREPARED
1/9/2020

ROUTE
54

STATE
MO

DISTRICT
C

SHEET NO.
16-3

COUNTY
MILLER/COLE

JOB NO.
J5P3222

CONTRACT ID.
14118

PROJECT NO.

BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

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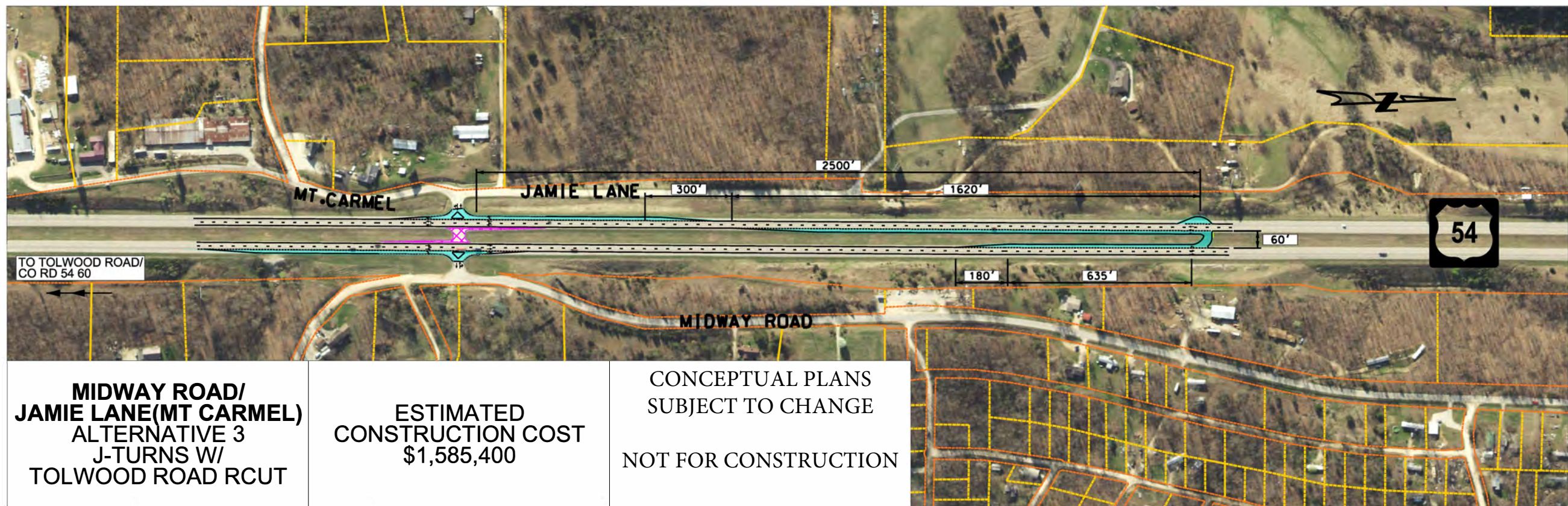
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MIDWAY ROAD/ JAMIE LANE(MT CARMEL) ALTERNATIVE 3 J-TURNS W/ TOLWOOD ROAD RCUT	ESTIMATED CONSTRUCTION COST \$1,585,400	CONCEPTUAL PLANS SUBJECT TO CHANGE NOT FOR CONSTRUCTION
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NOT BE CONSIDERED
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DOCUMENT."

DATE
DATE PREPARED
1/9/2020
ROUTE
54
STATE
MO
DISTRICT
C
SHEET NO.
18-3
COUNTY
MILLER/COLE
JOB NO.
J5P3222
CONTRACT ID.
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PROJECT NO.
BRIDGE NO.

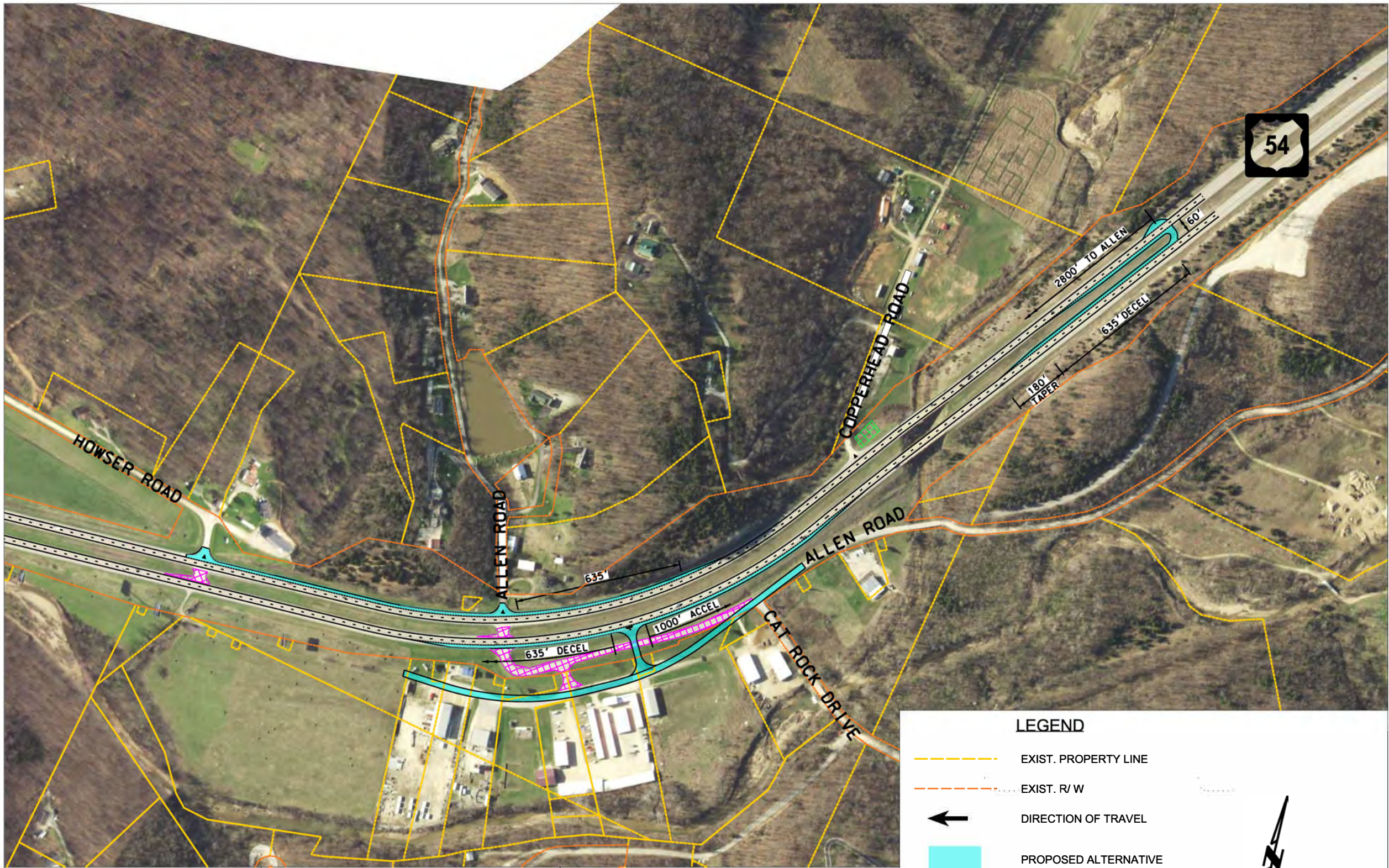
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SEE SHEET 2 OF 2



**ALLEN ROAD
HOWSER ROAD
WALNUT GROVE
ALTERNATIVE 2
J-TURN
SHEET 1 OF 2**

**ESTIMATED
CONSTRUCTION COST
\$2,487,000**

**CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR CONSTRUCTION**

LEGEND

- EXIST. PROPERTY LINE
- EXIST. R/W
- ← DIRECTION OF TRAVEL
- PROPOSED ALTERNATIVE
- CROSSING REMOVAL
- TREE REMOVAL

SCALE

0 200 400 600 800 1000

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE

DATE PREPARED
1/31/2020

ROUTE 54	STATE MO
DISTRICT C	SHEET NO. 21-2A

COUNTY
MILLER/COLE

JOB NO.
J5P3222

CONTRACT ID.
14118

PROJECT NO.

BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

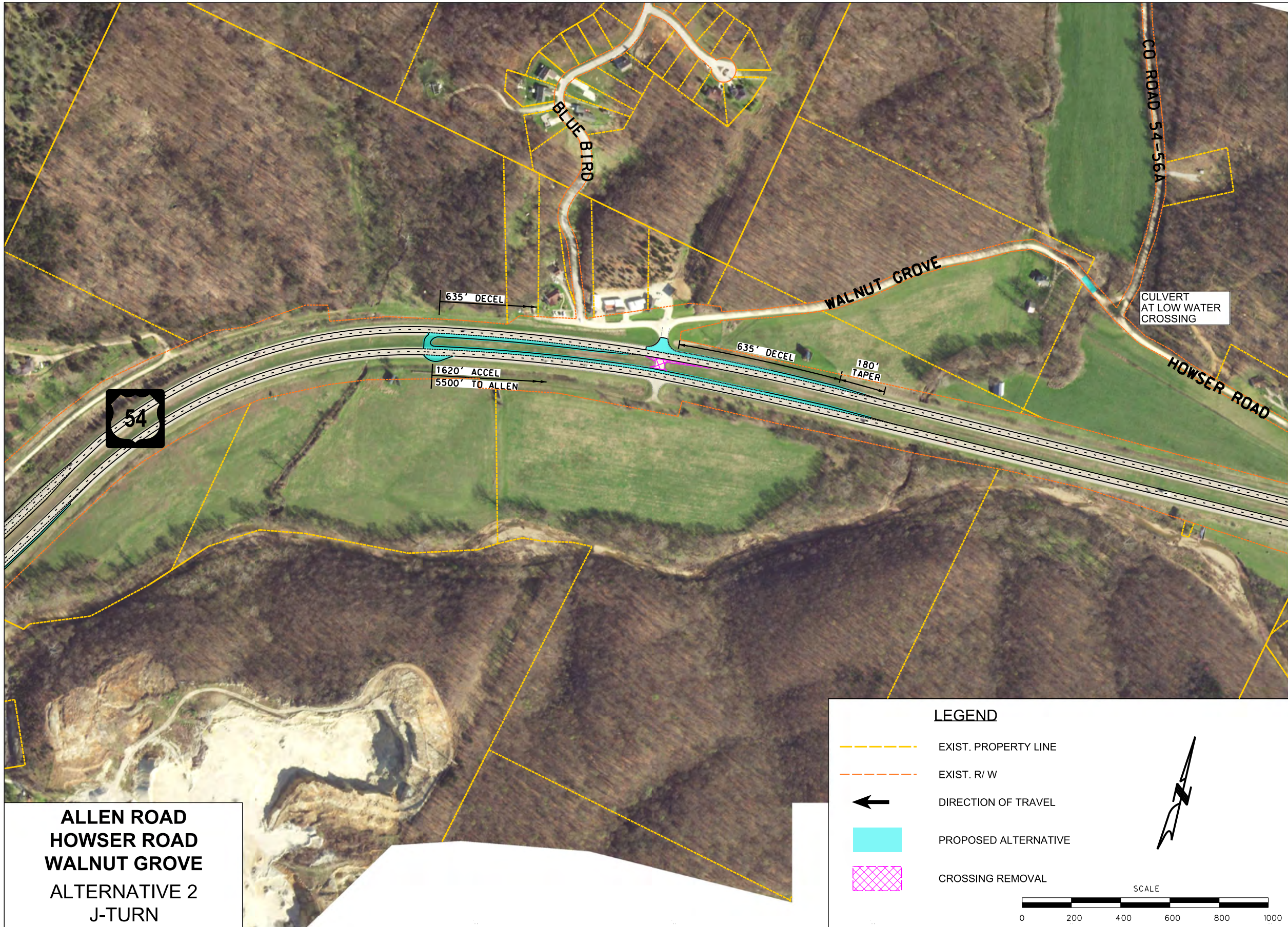
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-273-6636)

GBA

16305 Swingley Ridge
Road, Ste 300
Chesterfield, MO 63017
636.385.5642
www.gbateam.com

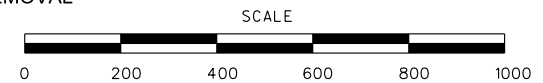
GEORGE BUTLER
ASSOCIATES, INC.
PRD. ENGINEER 000133
ARCHITECT 000212
PRD. LAND SURVEYOR 000059



ALLEN ROAD
HOWSER ROAD
WALNUT GROVE
ALTERNATIVE 2
J-TURN
SHEET 2 OF 2

LEGEND

- EXIST. PROPERTY LINE
- EXIST. R/W
- DIRECTION OF TRAVEL
- PROPOSED ALTERNATIVE
- CROSSING REMOVAL



SEE SHEET 1 OF 2

"THIS MEDIA SHOULD
NOT BE CONSIDERED
A CERTIFIED
DOCUMENT."

DATE

DATE PREPARED
1/15/2020

ROUTE 54 STATE MO
DISTRICT C SHEET NO. 21-2B

COUNTY
MILLER/COLE

JOB NO.
J5P3222

CONTRACT ID.
14118

PROJECT NO.

BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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GBA
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Road, Ste 300
Chesterfield, MO 63017
636.385.5642
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GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

REV.	59	7	1-888-ASK-N-MODUL (1-888-273-6636)	IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.
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BRIDGE NO.

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

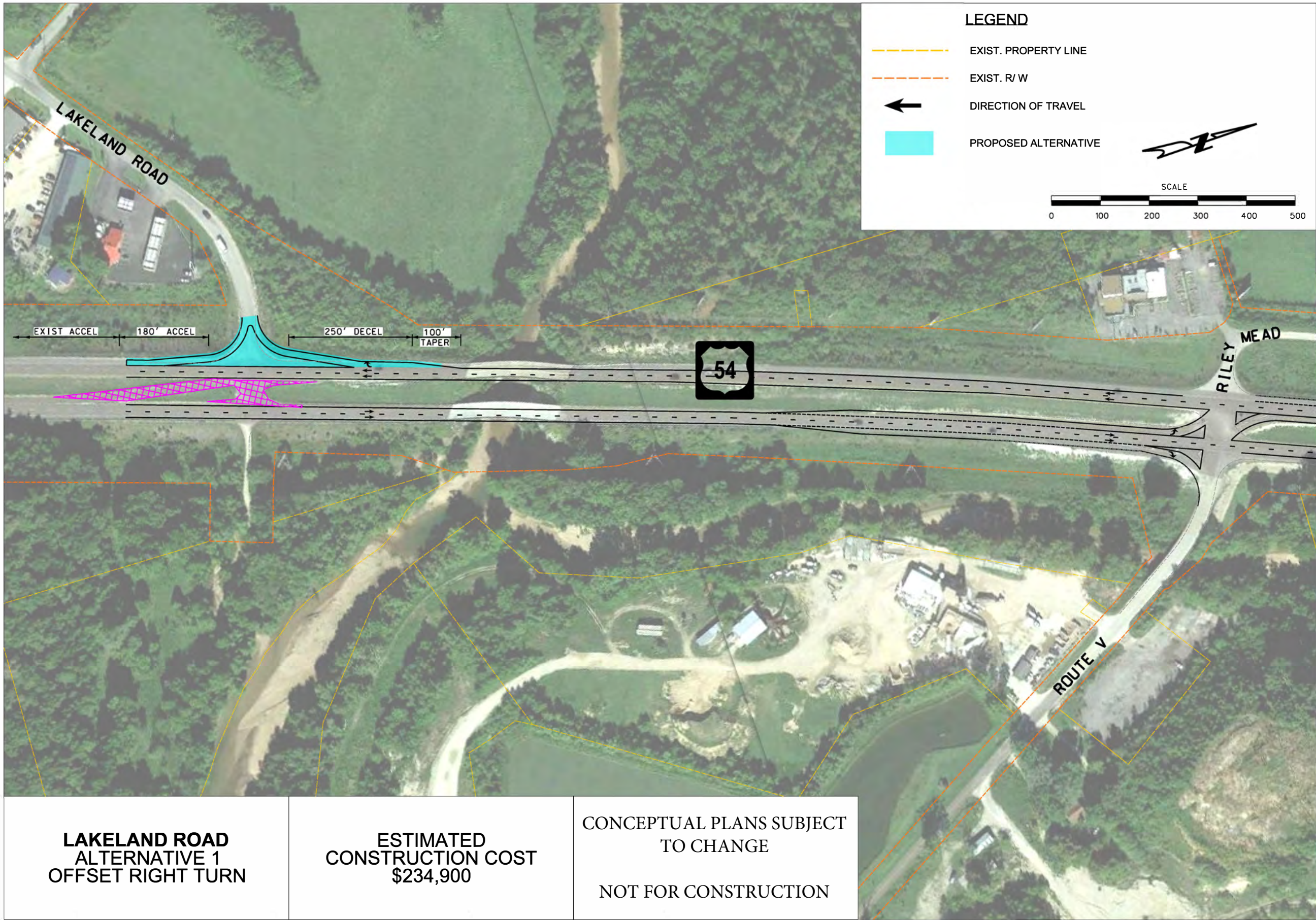
105 WEST CAPITOL
JEFFERSON CITY, MD 65102

GEORGE BUTLER
ASSOCIATES, INC.
PRO. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 00005

0 100 200 300 400 500

54

G:\14118\Micro\Highways\PL24_Rte54.dgn 10:11:53 AM 01/08/2019



**LAKELAND ROAD
ALTERNATIVE 1
OFFSET RIGHT TURN**

**ESTIMATED
CONSTRUCTION COST
\$234,900**

**CONCEPTUAL PLANS SUBJECT
TO CHANGE**

NOT FOR CONSTRUCTION

"THIS MEDIA SHOULD
NOT BE CONSIDERED
A CERTIFIED
DOCUMENT."

DATE
DATE PREPARED
1/9/2020
ROUTE 54 STATE MO
DISTRICT C SHEET NO. 25-1
COUNTY MILLER/COLE
JOB NO. J5P3222
CONTRACT ID. 14118
PROJECT NO.
BRIDGE NO.

ROUTE 54 SAFETY STUDY
MILLER TO COLE COUNTY
ALTERNATE PLAN

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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GBA
16305 Swingley Ridge
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Chesterfield, MO 63017
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GEORGE BUTLER
ASSOCIATES, INC.
PRD. ENGINEER 000133
ARCHITECT 000212
PRO. LAND SURVEYOR 000059

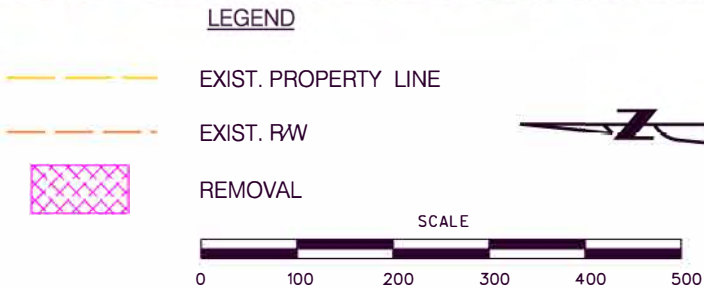


ISLEWORTH AVE
ALTERNATIVE 3
REMOVE ENTRANCE

ESTIMATED
CONSTRUCTION COST
\$80,000

CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR
CONSTRUCTION



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DATE

DATE PREPARED
1/9/2020

ROUTE 54	STATE MO
DISTRICT C	SHEET NO. 56

COUNTY
MILLER/COLE

JOB NO.
J5P3222

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

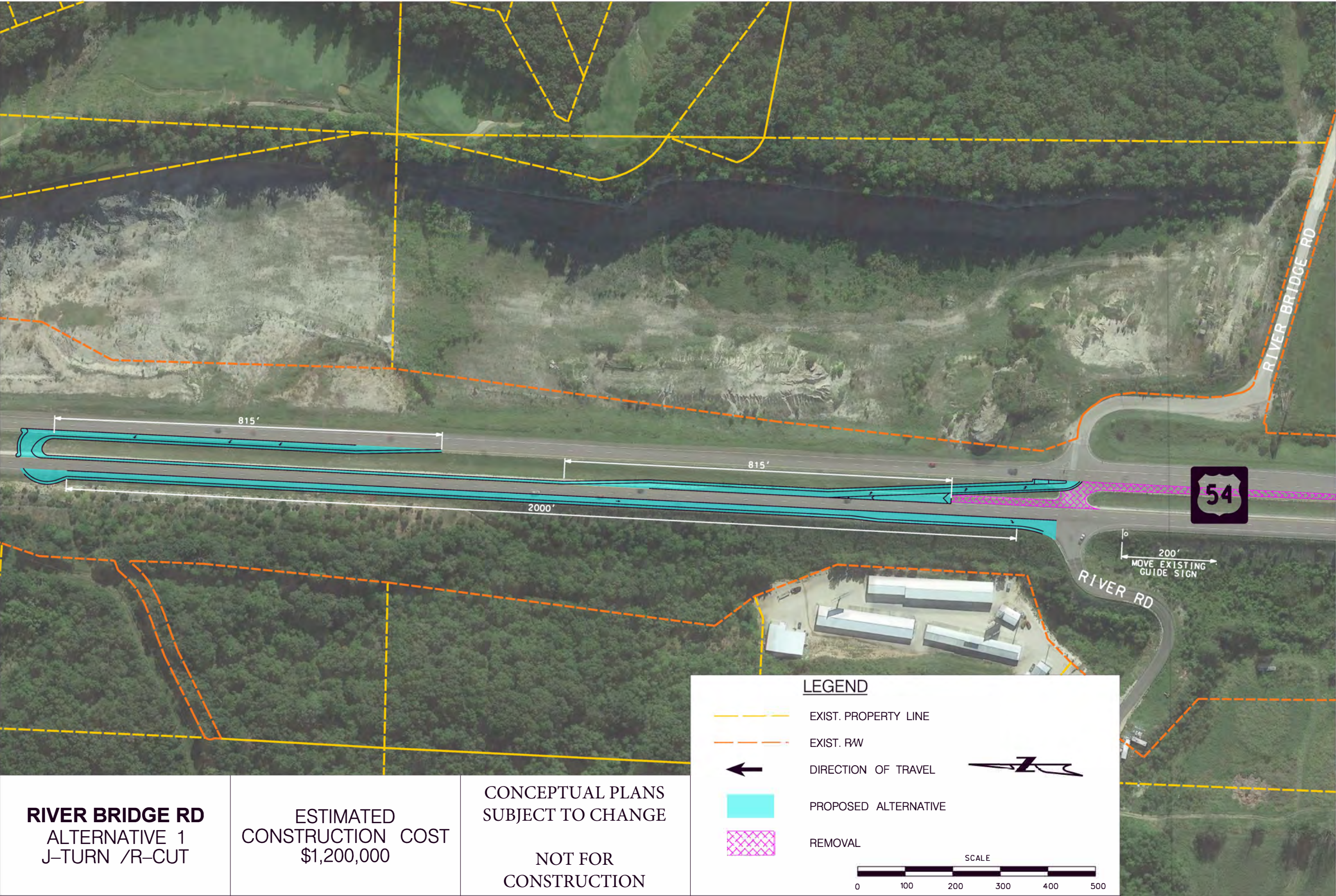
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFK Moen
Civil Engineering Design
13523 Barrett Parkway Dr
Suite 250
St. Louis, MO 63021
Phone 314-394-3100
Fax 314-394-3199
Missouri Certificate of Authority: 001578

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



RIVER BRIDGE RD
ALTERNATIVE 1
J-TURN /R-CUT

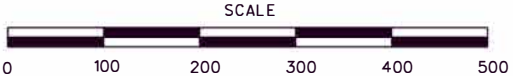
ESTIMATED
CONSTRUCTION COST
\$1,200,000

CONCEPTUAL PLANS
SUBJECT TO CHANGE

NOT FOR
CONSTRUCTION

LEGEND

- EXIST. PROPERTY LINE
- - - EXIST. R/W
- ← DIRECTION OF TRAVEL
- PROPOSED ALTERNATIVE
- REMOVAL



"THIS MEDIA SHOULD
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A CERTIFIED
DOCUMENT."

DATE	
1/9/2020	
ROUTE	STATE
54	MO
DISTRICT	SHEET NO.
C	57
COUNTY	
MILLER/COLE	
JOB NO.	
J5P3222	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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