

DESIGN DESIGNATION

A.A.D.T. - 2015 = 6565

A.A.D.T. - 2035 = 9755

D.H.V. = 10%

T = 9%

V = 50 M.P.H.

D = 50%

FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL

UTILITIES

ELECTRIC - AMEREN MISSOURI
WILLIAM ROSENER
6450 HIGHWAY MM
HOUSE SPRINGS, MO 63051
OFFICE: 636-671-6162

TELEPHONE - AT&T
GLENN HOGENMILLER
122 NORTH 2ND STREET
FESTUS, MO 63028
OFFICE: 636-931-7525

CABLE - CHARTER
DARYL STEFFEN
815 CHARTER COMMUNICATIONS DRIVE
TOWN & COUNTRY, MO 63017
OFFICE: 636-387-6663

GAS - LACLEDE
BRIAN LANGENBACHER
4118 SHREWSBURY AVENUE
SHREWSBURY, MO 63119
OFFICE: 314-768-7767

SEWER - ROCK CREEK
JASON SIEGER
4133 WEST OUTER ROAD
ARNOLD, MO 63010
OFFICE: 636-464-3305

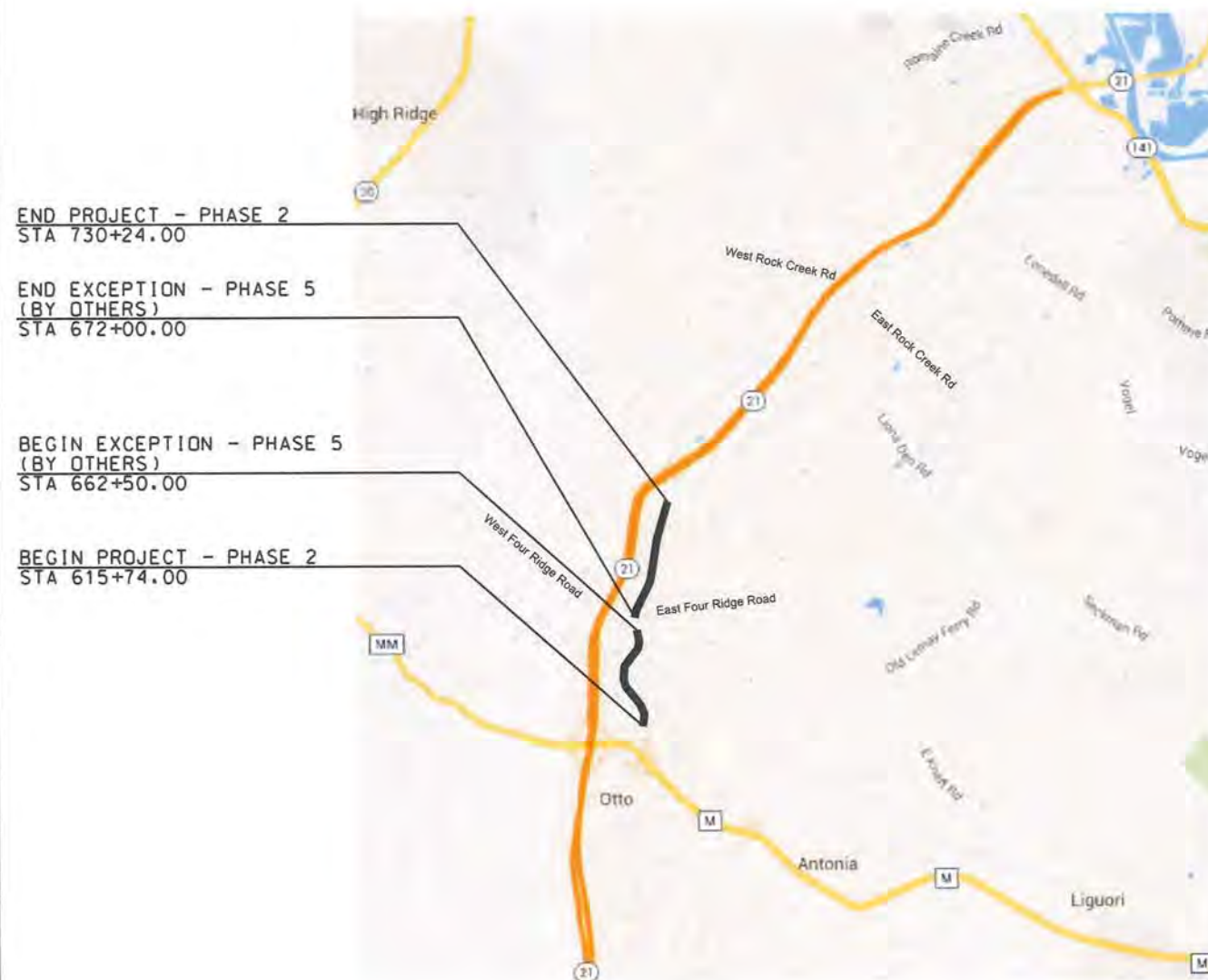
PUBLIC WATER SUPPLY DISTRICT #3
pwsd3jb2@yahoo.com
1469 OLD STATE ROUTE 21
ARNOLD, MO 63026
OFFICE: 636-296-7053

CONVENTIONAL SYMBOLS

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS		
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE		
OVERHEAD POWER		
UNDERGROUND POWER		
GAS		
WATER		
MANHOLE		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		
LEAVE IN PLACE		
TO BE REMOVED		
TO BE REMOVED & RELOCATED		
USE IN PLACE		

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT
PLANS FOR PROPOSED
COUNTY ROADOLD STATE ROUTE 21
PHASE 2 IMPROVEMENTSEND PROJECT - PHASE 2
STA 730+24.00END EXCEPTION - PHASE 5
(BY OTHERS)
STA 672+00.00BEGIN EXCEPTION - PHASE 5
(BY OTHERS)
STA 662+50.00BEGIN PROJECT - PHASE 2
STA 615+74.00

APPROVED BY:

JASON JONAS, P.E.
DIRECTOR OF PUBLIC WORKS

DATE

INDEX OF SHEETS

DESCRIPTION

SHEET
NUMBER

TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (10 SHEETS)	3
PLAN-PROFILE (PP)	4-27
TRAFFIC CONTROL SHEETS (TC)	28-30

DATE PREPARED
03-NOV-2016ROUTE
21STATE
MODISTRICT
SLSHEET NO.
1COUNTY
JEFFERSONJOB NO.
PW18039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 615 + 74.00

END OF PROJECT STA. 730 + 24.00

APPARENT LENGTH 11.450.00

EQUATIONS AND EXCEPTIONS:

STA. 627 + 51.57 BK -14.17 FEET

STA. 627 + 65.74 AHD

STA. 650 + 52.45 BK 4.50 FEET

STA. 650 + 47.95 AHD

STA. 662 + 50.00 -950.00 FEET

STA. 672 + 00.00

STA. 675 + 77.11 BK 23.76 FEET

STA. 675 + 53.35 AHD

STA. 685 + 40.00 BK -10.00 FEET

STA. 685 + 50.00 AHD

STA. 692 + 20.68 BK -45.95 FEET

STA. 692 + 66.63 AHD

STA. 714 + 24.98 BK 31.77 FEET

STA. 713 + 93.21 AHD

STA. 729 + 59.39 BK -7.99 FEET

STA. 729 + 67.38 AHD

TOTAL CORRECTIONS -968.08 FEET

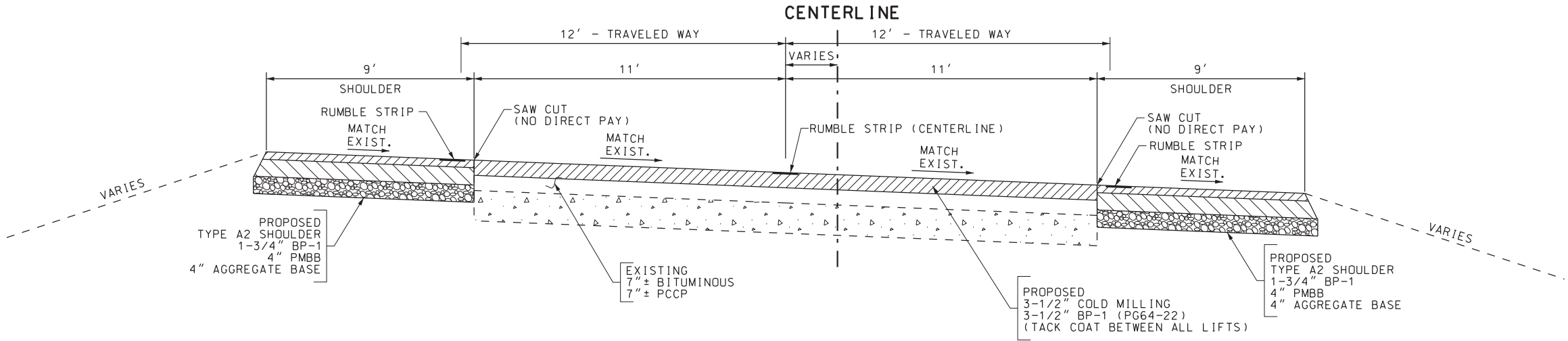
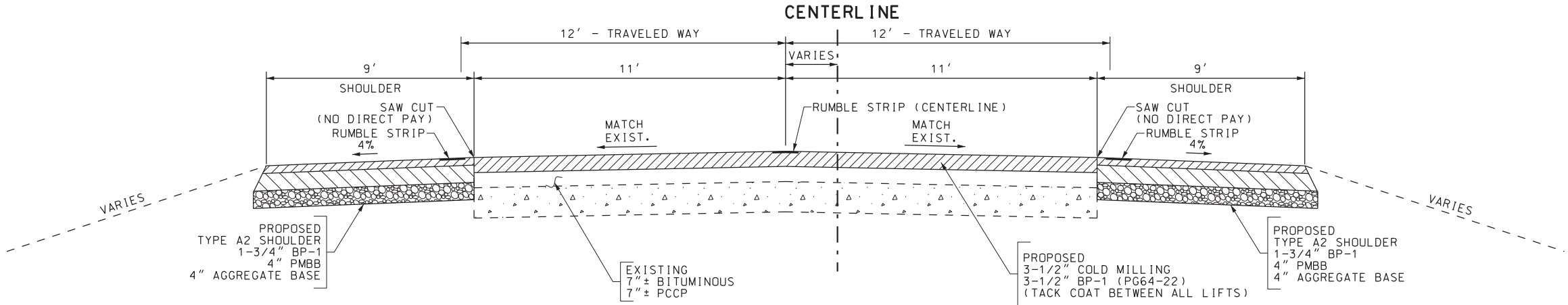
NET LENGTH OF PROJECT 10.481.92 FEET

LENGTH OF PROJECT 1.985 MILES

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.orgJACOBS
ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63101
PHONE: (314) 336-4000
CERTIFICATE OF AUTHORITY
#0004

NOTE:

1. PLANT MIX BITUMINOUS PAVEMENT (BP-1) QUANTITY BASED UPON 1.929 TONS/CU. YD. COMPACTED MIXTURE
2. PLANT MIX BITUMINOUS BASE QUANTITY BASED UPON 1.931 TONS/CU. YD. COMPACTED MIXTURE
3. TACK COAT QUANTITY BASED UPON 0.08 GALLONS/SQ. YD.
4. PRIME COAT QUANTITY BASED UPON 0.45 GALLONS/SQ. YD.



NOTES:

1. ALL WORK SHALL CONFORM TO MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF EXISTING PAVEMENT STRUCTURE PRIOR TO SAW CUT.
3. SEE MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLAN 620.00 FOR PAVEMENT MARKING DETAILS AND TYPICAL SECTIONS SHEET 2 - PAVEMENT EDGE DETAIL.
4. SEE MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLAN 626.00 FOR RUMBLE STRIP DETAILS AND TYPICAL SECTIONS SHEET 2 - PAVEMENT EDGE DETAIL.



DATE PREPARED 03-NOV-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 2
COUNTY JEFFERSON	
JOB NO. PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
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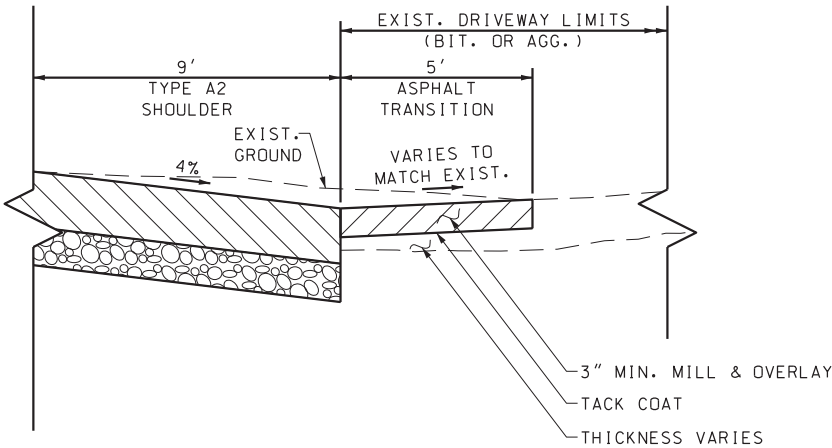


JACOBS

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501 NORTH BROADWAY
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PHONE: 314.785.0000
FACSIMILE: 314.785.0000
CERTIFICATE OF AUTHORITY
#00704

NOTES:

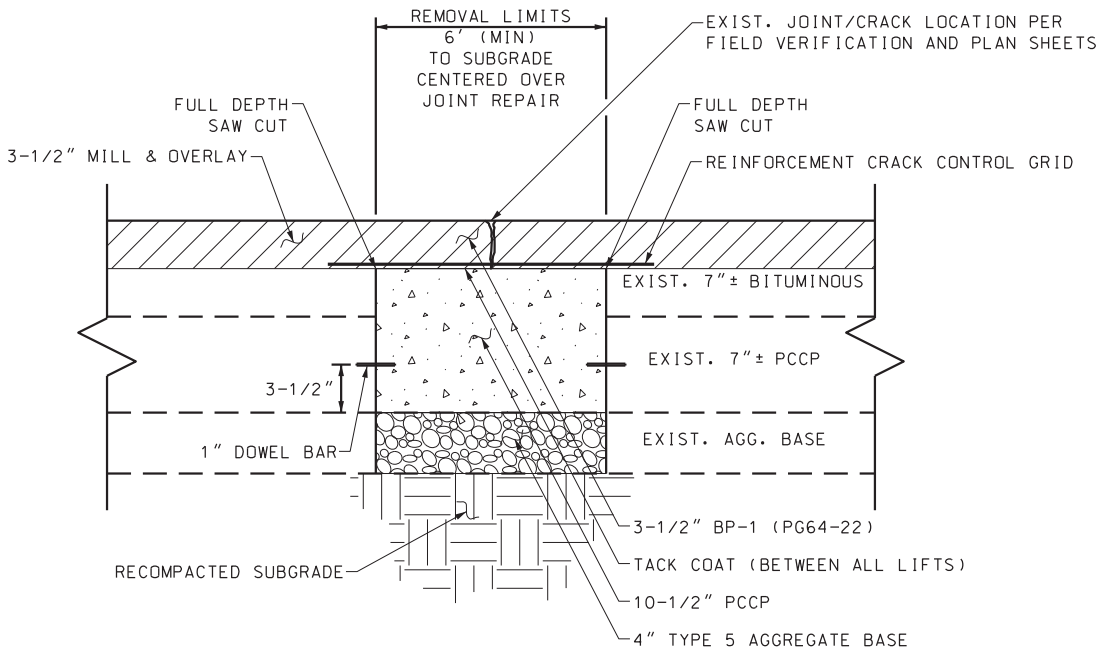
- 1. ALL WORK SHALL CONFORM TO MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 2. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF EXISTING PAVEMENT STRUCTURE PRIOR TO SAW CUT.



NOTES:

- 1. THE CONSTRUCTION OF THE ASPHALT TRANSITION SHALL REQUIRE REMOVAL OF SUFFICIENT MATERIAL TO CONSTRUCT A MINIMUM THREE (3") INCH THICK ASPHALT LAYER.
- 2. REMOVAL OF SUFFICIENT MATERIAL MAY EXCEED OR MAY BE LESS THAN THREE (3") INCHES IN THICKNESS DEPENDING ON GRADE OF EXISTING DRIVEWAY AND CONSTRUCTION OF NEW TYPE A2 SHOULDER.
- 3. ASPHALT TRANSITION SHALL BE CONSTRUCTED USING PLANT MIX BITUMINOUS BASE.

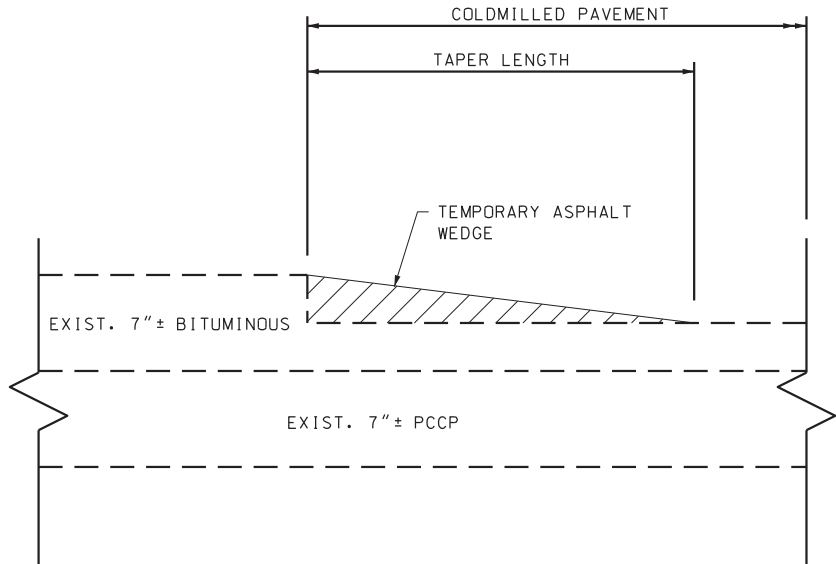
ASPHALT TRANSITION DETAIL
N.T.S.



NOTES:

- 1. SEE MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLAN 613.00 FOR ADDITIONAL INFORMATION.
- 2. SEE PLANS FOR LOCATIONS OF FULL DEPTH JOINT REPAIR.

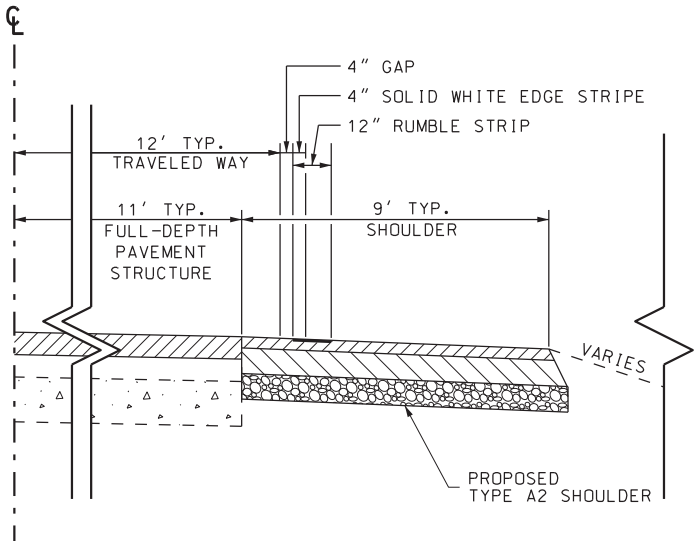
FULL DEPTH JOINT REPAIR DETAIL
N.T.S.



NOTES:

- 1. THE TAPER LENGTH SHALL BE 3 FT. IN LENGTH FOR EVERY 1 INCH OF THICKNESS FOR SHORT TERM OPERATION (LESS THAN 7 CALENDAR DAYS).
- 2. THE TAPER LENGTH SHALL BE 5 FT. IN LENGTH FOR EVERY 1 INCH OF THICKNESS FOR TEMPORARY OPERATION (IN PLACE OVER 7 CALENDAR DAYS).
- 3. THE COST TO PROVIDE AND PLACE TEMPORARY ASPHALT SHALL BE CONSIDERED INCIDENTAL AND INCLUDED IN OTHER ITEMS.
- 4. THE CONTRACTOR SHALL ERECT BUMP (W08-1) SIGNS FACING EACH DIRECTION OF TRAFFIC AT ALL LOCATIONS WHERE THE TEMPORARY TRANSVERSE ASPHALT TAPERS ARE USED.

TEMPORARY TRANSVERSE ASPHALT TAPER
N.T.S.



PAVEMENT EDGE DETAIL
N.T.S.



DATE PREPARED 03-NOV-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 2
COUNTY JEFFERSON	
JOB NO. PW18039RDW	
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PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org



JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
REGISTERED PROFESSIONAL ENGINEER
MISSOURI LICENSE NO. 000000000
CERTIFICATE OF AUTHORITY
#00704

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

2B

REMOVAL OF IMPROVEMENTS			
SHEET	STATION	LOCATION	DESCRIPTION
4	618+38	OLD ROUTE 21, LT	MAILBOX
4	619+72	OLD ROUTE 21, RT	MAILBOX
4	619+74	OLD ROUTE 21, RT	MAILBOX
4	620+14	OLD ROUTE 21, LT	MAILBOX
5	620+78	OLD ROUTE 21, LT	MAILBOX
5	620+83	OLD ROUTE 21, LT	MAILBOX
5	624+19	OLD ROUTE 21, LT	MAILBOX
6	626+61	OLD ROUTE 21, LT	MAILBOX
6	626+66	OLD ROUTE 21, LT	MAILBOX
8	634+56	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
8	635+55	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
8	636+07	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
8	637+07	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
8	638+08	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
9	638+73	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
9	639+72	OLD ROUTE 21, LT	MAILBOX
9	641+57	OLD ROUTE 21, RT	MAILBOX
10	645+98	OLD ROUTE 21, RT	MAILBOX
10	645+99	OLD ROUTE 21, LT	MAILBOX
10	646+07	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
10	647+06	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
11	647+87	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
11	648+94	OLD ROUTE 21, LT	MAILBOX
11	649+56	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
12	652+50	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
12	653+99	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
12	654+49	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
12	655+04	OLD ROUTE 21, RT	MAILBOX
12	655+49	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
13	657+06	OLD ROUTE 21, RT	MAILBOX
13	657+95	OLD ROUTE 21, RT	MAILBOX
13	658+52	OLD ROUTE 21, RT	MAILBOX
13	659+96	OLD ROUTE 21, RT	MAILBOX
13	660+22	OLD ROUTE 21, RT	MAILBOX
14	661+46	OLD ROUTE 21, RT	MAILBOX
14	662+27	OLD ROUTE 21, RT	MAILBOX

REMOVAL OF IMPROVEMENTS			
SHEET	STATION	LOCATION	DESCRIPTION
16	679+17	OLD ROUTE 21, RT	MAILBOX
16	679+85	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
17	681+84	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
17	682+47	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
17	682+60	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
17	683+34	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
17	684+34	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
19	691+97	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
19	693+78	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
20	695+30	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
20	695+80	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
20	696+31	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
20	697+12	OLD ROUTE 21, RT	MAILBOX
20	697+13	OLD ROUTE 21, RT	MAILBOX
20	697+14	OLD ROUTE 21, RT	MAILBOX
20	697+15	OLD ROUTE 21, RT	MAILBOX
20	697+28	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
20	698+27	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
21	699+77	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
21	701+01	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
21	701+79	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
21	702+40	OLD ROUTE 21, RT	MAILBOX
21	702+41	OLD ROUTE 21, RT	MAILBOX
21	702+42	OLD ROUTE 21, RT	MAILBOX
21	702+77	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
21	703+66	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
21	703+87	OLD ROUTE 21, RT	MAILBOX
22	704+27	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
22	704+60	OLD ROUTE 21, RT	MAILBOX
22	705+78	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
22	705+85	OLD ROUTE 21, RT	MAILBOX
22	707+09	OLD ROUTE 21, RT	MAILBOX
27	729+46	OLD ROUTE 21, LT & RT	14.7 SY CONC PVM' T
		TOTAL	1 LUMP SUM

MOBILIZATION	
TOTAL	1 LUMP SUM

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

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HILLSBORO, MO 63050
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501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
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FACSIMILE: 314.381.0000
CERTIFICATE OF AUTHORITY
#00704



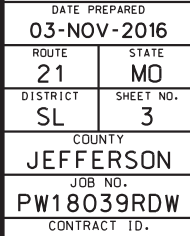
DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION						
DATE						

SUMMARY OF QUANTITIES

2B



PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS'
JACOBS ENGINEERING GROUP
1501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#00704

2B

L INEAR GRADING					
SHEET	STATION	STATION	LOCATION	CLASS 2	COMMENT
				STA	
16	676+50	681+00	OLD ROUTE 21, LT	4.5	SHOULDER
16	676+50	681+00	OLD ROUTE 21, RT	4.5	SHOULDER
17	681+00	685+40	OLD ROUTE 21, LT	4.4	SHOULDER
17	681+00	685+40	OLD ROUTE 21, RT	4.4	SHOULDER
18	685+50	690+00	OLD ROUTE 21, LT	4.5	SHOULDER
18	685+50	690+00	OLD ROUTE 21, RT	4.5	SHOULDER
19	690+00	692+21	OLD ROUTE 21, LT	2.2	SHOULDER
19	692+67	695+00	OLD ROUTE 21, LT	2.3	SHOULDER
19	690+00	692+21	OLD ROUTE 21, RT	2.2	SHOULDER
19	692+67	695+00	OLD ROUTE 21, RT	2.3	SHOULDER
20	695+00	699+50	OLD ROUTE 21, LT	4.5	SHOULDER
20	695+00	699+50	OLD ROUTE 21, RT	4.5	SHOULDER
21	699+50	704+00	OLD ROUTE 21, LT	4.5	SHOULDER
21	699+50	704+00	OLD ROUTE 21, RT	4.5	SHOULDER
22	704+00	708+50	OLD ROUTE 21, LT	4.5	SHOULDER
22	704+00	708+50	OLD ROUTE 21, RT	4.5	SHOULDER
23	708+50	713+00	OLD ROUTE 21, LT	4.5	SHOULDER
23	708+50	713+00	OLD ROUTE 21, RT	4.5	SHOULDER
24	713+00	714+25	OLD ROUTE 21, LT	1.3	SHOULDER
24	713+93	717+50	OLD ROUTE 21, LT	3.6	SHOULDER
24	713+00	714+25	OLD ROUTE 21, RT	1.3	SHOULDER
24	713+93	717+50	OLD ROUTE 21, RT	3.6	SHOULDER
25	717+50	722+00	OLD ROUTE 21, LT	4.5	SHOULDER
25	717+50	722+00	OLD ROUTE 21, RT	4.5	SHOULDER
26	722+00	726+50	OLD ROUTE 21, LT	4.5	SHOULDER
26	722+00	726+50	OLD ROUTE 21, RT	4.5	SHOULDER
27	726+50	729+59	OLD ROUTE 21, LT	3.1	SHOULDER
27	729+67	730+24	OLD ROUTE 21, LT	0.6	SHOULDER
27	726+50	729+59	OLD ROUTE 21, RT	3.1	SHOULDER
27	729+67	730+24	OLD ROUTE 21, RT	0.6	SHOULDER
			SUBTOTAL	107.0	
			TOTAL	209.8	

PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#00704

SUMMARY OF QUANTITIES

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



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501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#00704

PAVEMENT EDGE TREATMENT				
SHEET	STATION	STATION	LOCATION	LF
4	615+74	620+50	OLD ROUTE 21, LT	476
4	615+74	620+50	OLD ROUTE 21, RT	476
5	620+50	625+00	OLD ROUTE 21, LT	450
5	620+50	625+00	OLD ROUTE 21, RT	450
6	625+00	627+52	OLD ROUTE 21, LT	252
6	627+66	629+50	OLD ROUTE 21, LT	184
6	625+00	627+52	OLD ROUTE 21, RT	252
6	627+66	629+50	OLD ROUTE 21, RT	184
7	629+50	634+00	OLD ROUTE 21, LT	450
7	629+50	634+00	OLD ROUTE 21, RT	450
8	634+00	638+50	OLD ROUTE 21, LT	450
8	634+00	638+50	OLD ROUTE 21, RT	450
9	638+50	643+00	OLD ROUTE 21, LT	450
9	638+50	643+00	OLD ROUTE 21, RT	450
10	643+00	647+50	OLD ROUTE 21, LT	450
10	643+00	647+50	OLD ROUTE 21, RT	450
11	647+50	650+52	OLD ROUTE 21, LT	302
11	650+48	652+00	OLD ROUTE 21, LT	152
11	647+50	650+52	OLD ROUTE 21, RT	302
11	650+48	652+00	OLD ROUTE 21, RT	152
12	652+00	656+50	OLD ROUTE 21, LT	450
12	652+00	656+50	OLD ROUTE 21, RT	450
13	656+50	661+00	OLD ROUTE 21, LT	450
13	656+50	661+00	OLD ROUTE 21, RT	450
14	661+00	662+50	OLD ROUTE 21, LT	150
14	661+00	662+50	OLD ROUTE 21, RT	150
15	672+00	675+77	OLD ROUTE 21, LT	377
15	675+53	676+50	OLD ROUTE 21, LT	97
15	672+00	675+77	OLD ROUTE 21, RT	377
15	675+53	676+50	OLD ROUTE 21, RT	97
			SUBTOTAL	10,280

PAVEMENT EDGE TREATMENT				
SHEET	STATION	STATION	LOCATION	LF
16	676+50	681+00	OLD ROUTE 21, LT	450
16	676+50	681+00	OLD ROUTE 21, RT	450
17	681+00	685+40	OLD ROUTE 21, LT	440
17	681+00	685+40	OLD ROUTE 21, RT	440
18	685+50	690+00	OLD ROUTE 21, LT	450
18	685+50	690+00	OLD ROUTE 21, RT	450
19	690+00	692+21	OLD ROUTE 21, LT	221
19	692+67	695+00	OLD ROUTE 21, LT	233
19	690+00	692+21	OLD ROUTE 21, RT	221
19	692+67	695+00	OLD ROUTE 21, RT	233
20	695+00	699+50	OLD ROUTE 21, LT	450
20	695+00	699+50	OLD ROUTE 21, RT	450
21	699+50	704+00	OLD ROUTE 21, LT	450
21	699+50	704+00	OLD ROUTE 21, RT	450
22	704+00	708+50	OLD ROUTE 21, LT	450
22	704+00	708+50	OLD ROUTE 21, RT	450
23	708+50	713+00	OLD ROUTE 21, LT	450
23	708+50	713+00	OLD ROUTE 21, RT	450
24	713+00	714+25	OLD ROUTE 21, LT	125
24	713+93	717+50	OLD ROUTE 21, LT	357
24	713+00	714+25	OLD ROUTE 21, RT	125
24	713+93	717+50	OLD ROUTE 21, RT	357
25	717+50	722+00	OLD ROUTE 21, LT	450
25	717+50	722+00	OLD ROUTE 21, RT	450
26	722+00	726+50	OLD ROUTE 21, LT	450
26	722+00	726+50	OLD ROUTE 21, RT	450
27	726+50	729+59	OLD ROUTE 21, LT	309
27	729+67	730+24	OLD ROUTE 21, LT	57
27	726+50	729+59	OLD ROUTE 21, RT	309
27	729+67	730+24	OLD ROUTE 21, RT	57
			SUBTOTAL	10,684
			TOTAL	20,964

2B

SHEET	STATION	STATION	LOCATION	CENTERLINE	SHOULDER
				STA	STA
16	676+50	681+00	OLD ROUTE 21	4.5	
16	676+50	680+45	OLD ROUTE 21, LT		4.0
16	676+50	677+30	OLD ROUTE 21, RT		0.8
16	680+15	681+00	OLD ROUTE 21, RT		0.9
17	681+00	685+40	OLD ROUTE 21	4.4	
17	682+80	685+40	OLD ROUTE 21, LT		2.6
17	681+00	685+40	OLD ROUTE 21, RT		4.4
18	685+50	690+00	OLD ROUTE 21	4.5	
18	685+50	690+00	OLD ROUTE 21, LT		4.5
18	685+50	690+00	OLD ROUTE 21, RT		4.5
19	690+00	692+21	OLD ROUTE 21	2.2	
19	692+67	695+00	OLD ROUTE 21	2.3	
19	690+00	692+21	OLD ROUTE 21, LT		2.2
19	692+67	694+50	OLD ROUTE 21, LT		1.8
19	690+00	692+21	OLD ROUTE 21, RT		2.2
19	692+67	695+00	OLD ROUTE 21, RT		2.3
20	695+00	699+50	OLD ROUTE 21	4.5	
20	697+10	697+80	OLD ROUTE 21, LT		0.7
20	695+00	695+35	OLD ROUTE 21, RT		0.4
20	698+35	699+50	OLD ROUTE 21, RT		1.2
21	699+50	704+00	OLD ROUTE 21	4.5	
21	700+00	702+10	OLD ROUTE 21, LT		2.1
21	699+50	701+40	OLD ROUTE 21, RT		1.9
22	704+00	708+50	OLD ROUTE 21	4.5	
22	704+50	708+50	OLD ROUTE 21, LT		4.0
22	707+80	708+50	OLD ROUTE 21, RT		0.7
23	708+50	713+00	OLD ROUTE 21	4.5	
23	708+50	713+00	OLD ROUTE 21, LT		4.5
23	708+50	713+00	OLD ROUTE 21, RT		4.5
24	713+00	714+25	OLD ROUTE 21	1.3	
24	713+93	717+50	OLD ROUTE 21	3.6	
24	713+00	714+25	OLD ROUTE 21, LT		1.3
24	713+93	717+50	OLD ROUTE 21, LT		3.6
24	713+00	713+83	OLD ROUTE 21, RT		0.8
24	715+87	717+50	OLD ROUTE 21, RT		1.6
25	717+50	722+00	OLD ROUTE 21	4.5	
25	717+50	722+00	OLD ROUTE 21, LT		4.5
25	717+50	722+00	OLD ROUTE 21, RT		4.5
26	722+00	726+50	OLD ROUTE 21	4.5	
26	722+00	726+50	OLD ROUTE 21, LT		4.5
26	722+00	726+50	OLD ROUTE 21, RT		4.5
27	726+50	729+59	OLD ROUTE 21	3.1	
27	729+67	730+24	OLD ROUTE 21	0.6	
27	726+50	729+59	OLD ROUTE 21, LT		3.1
27	729+67	730+24	OLD ROUTE 21, LT		0.6
27	726+50	729+59	OLD ROUTE 21, RT		3.1
27	729+67	730+24	OLD ROUTE 21, RT		0.6
			SUBTOTAL	53.5	82.9
			TOTAL	104.9	128.9

SUMMARY OF QUANTITIES
SHEET 5 OF 10

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffcomo.org



JACOBS'
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
#00704

2B

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



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#00704

2B

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

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PUBLIC WORKS DEPARTMENT



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PROJECT NO.
BRIDGE NO.

[illegible]

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CERTIFICATE OF AUTHORITY
#00704

2B

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
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CERTIFICATE OF AUTHORITY
#00704

DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



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PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
00704

GENERAL NOTES:

1. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND NOT A PART OF THE CONSTRUCTION OF THIS PROJECT.
2. THE EXISTING CENTERLINE OF OLD STATE ROUTE 21 HAS BEEN RE-CREATED FROM AS-BUILT PLANS AND PROVIDED BY:

HURST-ROSCHKE, INC.
3675 WEST OUTER ROAD, SUITE 101
ARNOLD, MISSOURI 63010
636-333-3351
3. THE PROJECT COORDINATE SYSTEM IS TIED TO STATE PLANE MONUMENT STATION NAMED "ROCK".
4. NO DIRECT PAYMENT WILL BE MADE FOR SAWCUTS ASSOCIATED WITH THE REMOVAL OF THE EXISTING SHOULDERS. THE COST WILL BE CONSIDERED INCIDENTAL AND INCLUDED IN OTHER ITEMS.
5. SEE PAVEMENT EDGE DETAIL ON TYPICAL SECTIONS SHEET 2 OF 2 FOR LOCATION OF 4" SOLID WHITE EDGE STRIPE.



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	4
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

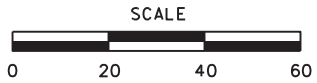
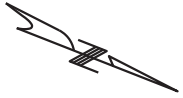
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
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JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102
PHONE: 314.381.0000
FACSIMILE: 314.381.0001
CERTIFICATE OF AUTHORITY
#00704



OLD STATE ROUTE 21

P.I.	621+10.17
N	927.889.26
E	821.580.24
Δ	60°33'00"
Dc	4°59'54"
Ts	769.98'
Lc	1011.39'
Rc	1146.28'
SE	match exist.
CS	4°59'54"
XC	199.65'
YC	5.81'



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	5
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

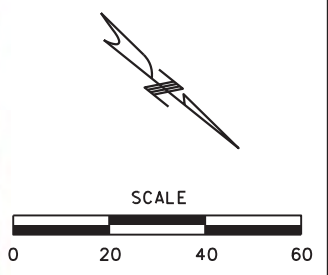
DATE	DESCRIPTION

JEFFERSON COUNTY
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DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	6
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

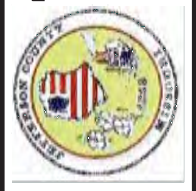
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

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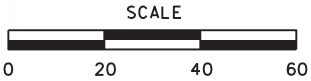
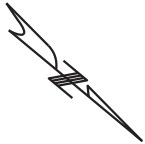
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501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE: 314.381.0000
FAX: 314.381.0001
CERTIFICATE OF AUTHORITY
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MATCH LINE STA. 629+50



MATCH LINE STA. 634+00



DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 7
COUNTY JEFFERSON	
JOB NO. PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

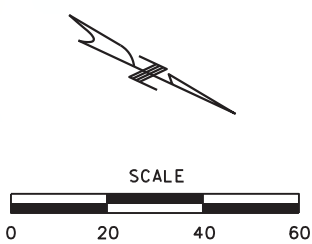
DATE	DESCRIPTION

JEFFERSON COUNTY
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REGISTERED PROFESSIONAL ENGINEER
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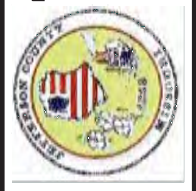


DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	8
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

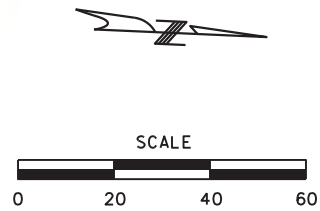
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
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PLANNING & DESIGN
CERTIFICATE OF AUTHORITY
#00704



DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 9

COUNTY
JEFFERSON

JOB NO.
PW18039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
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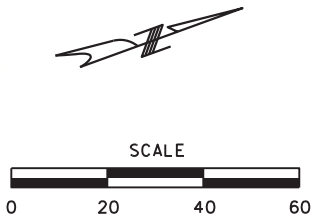
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PLANNING & DESIGN
CERTIFICATE OF AUTHORITY
#00704



OLD STATE ROUTE 21

P.I.	643+10.64
N	929.655.54
E	820.083.93
Δ	81°35'00"
DC	4°59'54"
TS	1090.38'
LC	1432.19'
RC	1146.28'
SE	match exist.
OS	4°59'54"
XC	199.85'
YC	5.81'



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	10
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

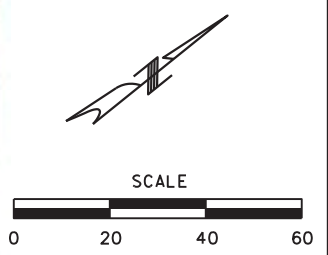
DATE	DESCRIPTION

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PUBLIC WORKS DEPARTMENT

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ENGINEERING
CERTIFICATE OF AUTHORITY
#00704



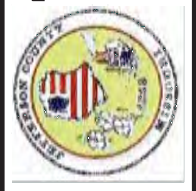
DATE PREPARED 03-NOV-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 11
COUNTY JEFFERSON	
JOB NO. PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

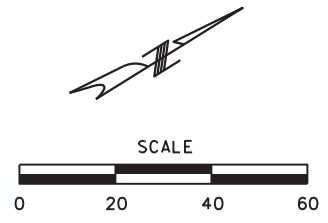
DATE	DESCRIPTION

JEFFERSON COUNTY
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HILLSDALE, MO 63050
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PLANNING & DESIGN
CERTIFICATE OF AUTHORITY
#00704



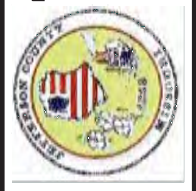
DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	12
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

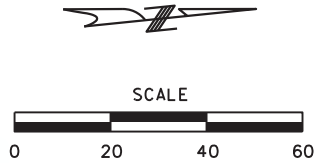
DATE	DESCRIPTION

JEFFERSON COUNTY
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501 NORTH BROADWAY
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PLANNING & DESIGN
CERTIFICATE OF AUTHORITY
#00704



OLD STATE ROUTE 21

P.I.	658+44.24
N	- 931.072.64
E	- 821.329.47
Δ	- 60°40'00"
Dc	- 5°59'50"
Ts	- 711.19'
Lc	- 711.58'
Ro	- 955.37'
SF	- match exist.
Us	- 8°59'45"
Xc	- 299.26'
Yc	- 15.67'



DATE PREPARED		03-NOV-2016
ROUTE	STATE	21 MO
DISTRICT	SHEET NO.	SL 13
COUNTY		JEFFERSON
JOB NO.		PW18039RDW
CONTRACT ID.		

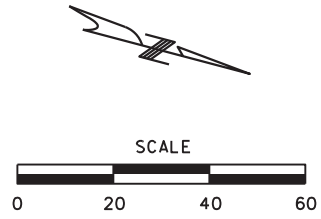
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
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PHONE: 314.381.0000
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DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	14
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

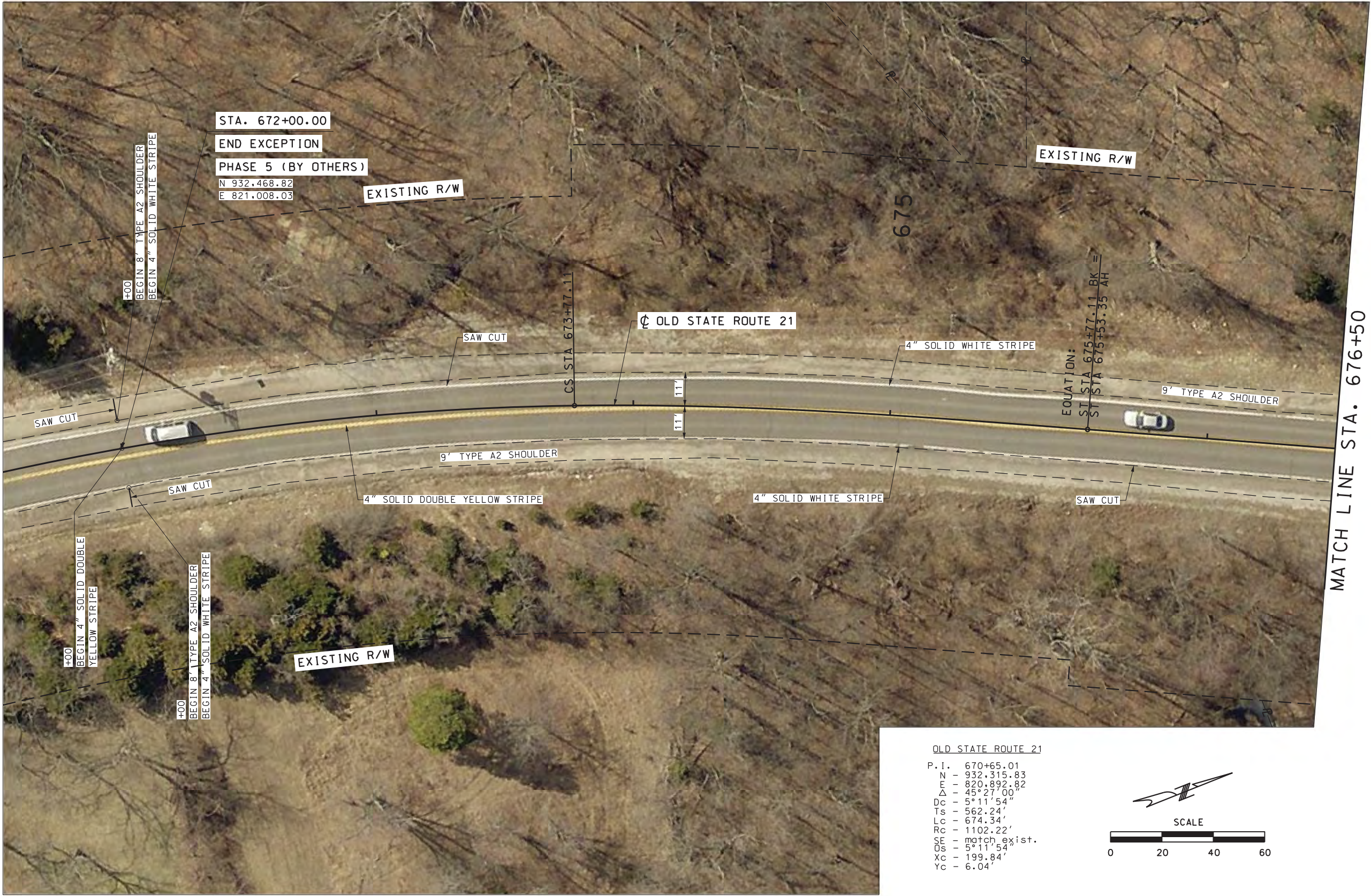
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

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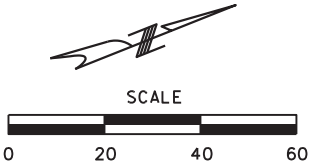


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ST. LOUIS, MO 63102
PHONE 314.352.0000
CERTIFICATE OF AUTHORITY
#00704



OLD STATE ROUTE 21
P.I. 670+65.01
N - 932.315.83
E - 820.892.82
 Δ - 45°27'00"
Dc - 5°11'54"
Ts - 562.24'
Lc - 674.34'
Rc - 1102.22'
SE - match exist.
Us - 5°11'54"
Xc - 199.84'
Yc - 6.04'



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	15
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

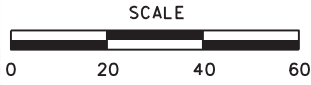
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco-mo.org



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501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102
PHONE: 314.785.0000
FAX: 314.785.0000
CERTIFICATE OF AUTHORITY
#00704

MATCH LINE STA. 676+50



MATCH LINE STA. 681+00

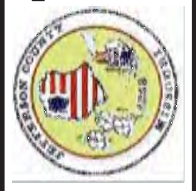


DATE PREPARED 03-NOV-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 16
COUNTY JEFFERSON	
JOB NO. PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSDALE, MO 63050
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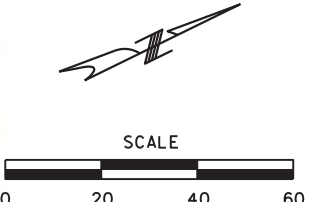


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501 NORTH BROADWAY
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
#00704

MATCH LINE STA. 681+00



MATCH LINE STA. 685+50



STATE OF MISSOURI

RICHARD S. BAUM

REGISTERED PROFESSIONAL ENGINEER

NUMBER E-24320

DATE PREPARED

03-NOV-2016

ROUTE

21

STATE

MO

DISTRICT

SL

SHEET NO.

17

COUNTY

JEFFERSON

JOB NO.

PW18039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY

PUBLIC WORKS DEPARTMENT

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HILLSDALE, MO 63050

(636-797-5340)

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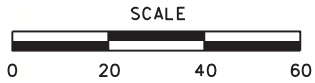
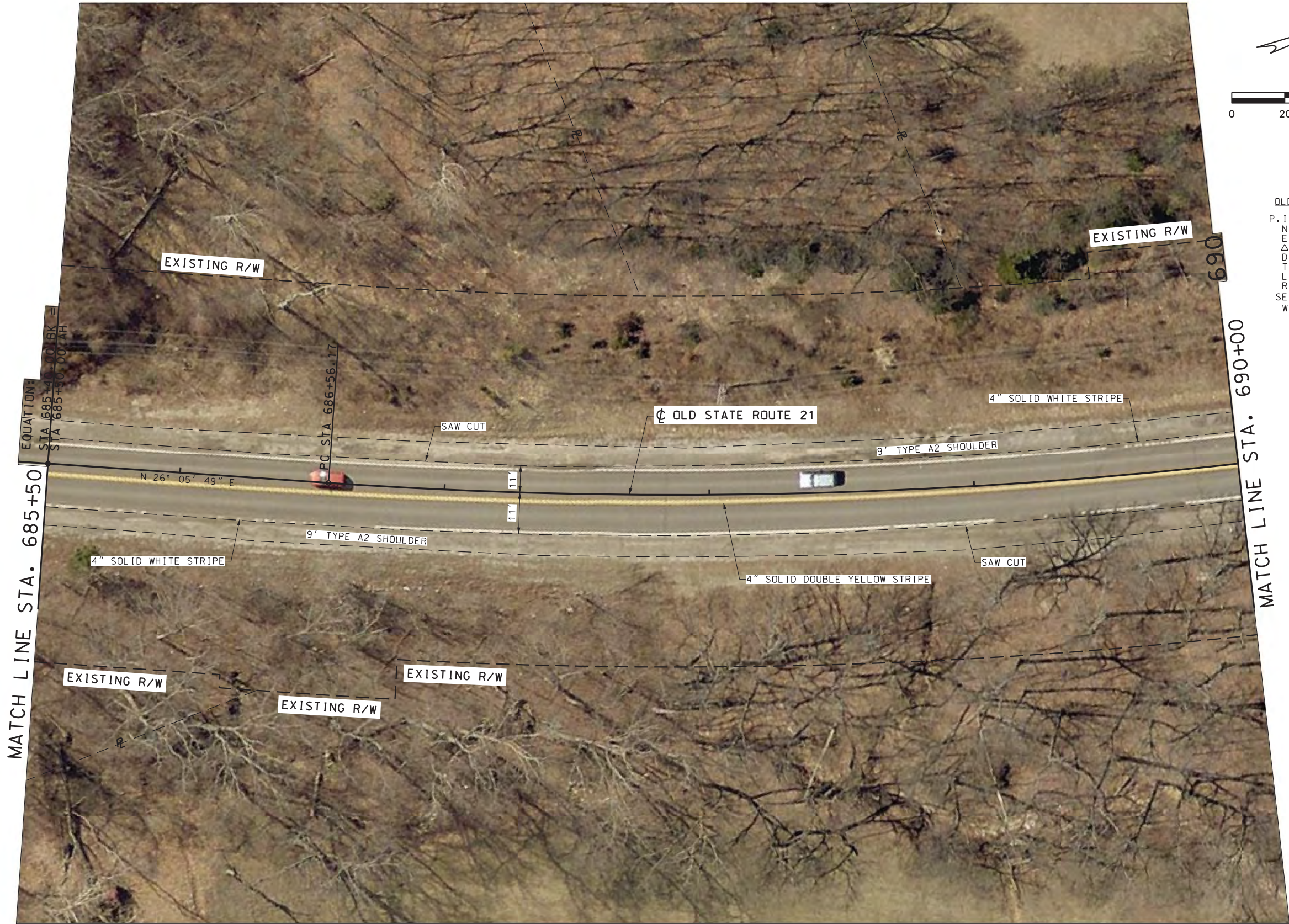
501 NORTH BROADWAY

ST. LOUIS, MO 63102

PROFESSIONAL ENGINEER

CERTIFICATE OF AUTHORITY

#00704



OLD STATE ROUTE 21

- P.I. 689+40.50
- N - 934,057.50
- E - 821,745.94
- Δ - 16°56'00"
- D - 2°59'59"
- T - 284.33'
- L - 564.51'
- R - 1910.08'
- SE - match exist.
- W - n/a



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	18
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

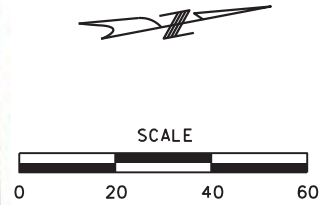
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

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JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102
PHONE 314.785.0000
FACSIMILE 314.785.0000
CERTIFICATE OF AUTHORITY
#00704



DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 19

COUNTY
JEFFERSON

JOB NO.
PW18039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

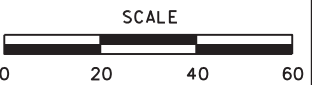
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSDALE, MO 63050
(636-797-5340)
www.jeffco.org



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JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102
PHONE: 314.381.0000
FACSIMILE: 314.381.0000
CERTIFICATE OF AUTHORITY
#00704



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	20
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

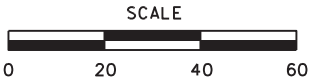
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

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HILLSBORO, MO 63050
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JACOBS

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
#00704

MATCH LINE STA. 699+50



MATCH LINE STA. 704+00



DATE PREPARED
03-NOV-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 21
COUNTY JEFFERSON	
JOB NO. PW18039RDW	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

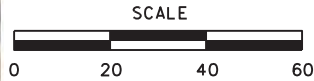
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

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HILLSBORO, MO 63050
(636-797-5340)
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JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
REGISTERED PROFESSIONAL ENGINEER
#00704

MATCH LINE STA. 704+00



MATCH LINE STA. 708+50



DATE PREPARED 03-NOV-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 22
COUNTY JEFFERSON	
JOB NO. PW18039RDW	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

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HILLSBORO, MO 63050
(636-797-5340)
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JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
CERTIFICATE OF AUTHORITY
#00704



OLD STATE ROUTE 21

P.I. 712+17.00
N - 936,263.67
E - 822,101.82
Δ - 8°20'00"
D - 2°00'00"
T - 208.71'
L - 416.69'
R - 2864.93'
SE - match exist.
W - n/a



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	23
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

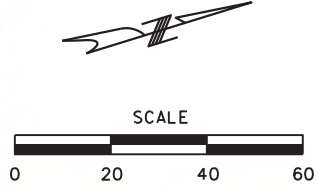
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



JACOBS

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PLANNING & DESIGN
CERTIFICATE OF AUTHORITY
#00704

MATCH LINE STA. 713+00



MATCH LINE STA. 717+50



JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
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JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE: 314.381.0000
CERTIFICATE OF AUTHORITY
#00704

DATE	DESCRIPTION

PROJECT NO.
BRIDGE NO.

JOB NO.
CONTRACT ID.



RICHARD S. BAUM
REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI
NUMBER E-24320

DATE PREPARED
03-NOV-2016

ROUTE 21
DISTRICT SL

STATE MO
SHEET NO. 24

MATCH LINE STA. 717+50



MATCH LINE STA. 722+00



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	25
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

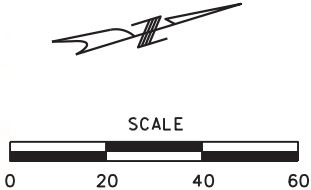
DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSDALE, MO 63050
(636-797-5340)
www.jeffco.org



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501 NORTH BROADWAY
ST. LOUIS, MO 63102
REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE OF AUTHORITY
#00704

MATCH LINE STA. 722+00



MATCH LINE STA. 726+50



DATE PREPARED	
03-NOV-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	26
COUNTY	
JEFFERSON	
JOB NO.	
PW18039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

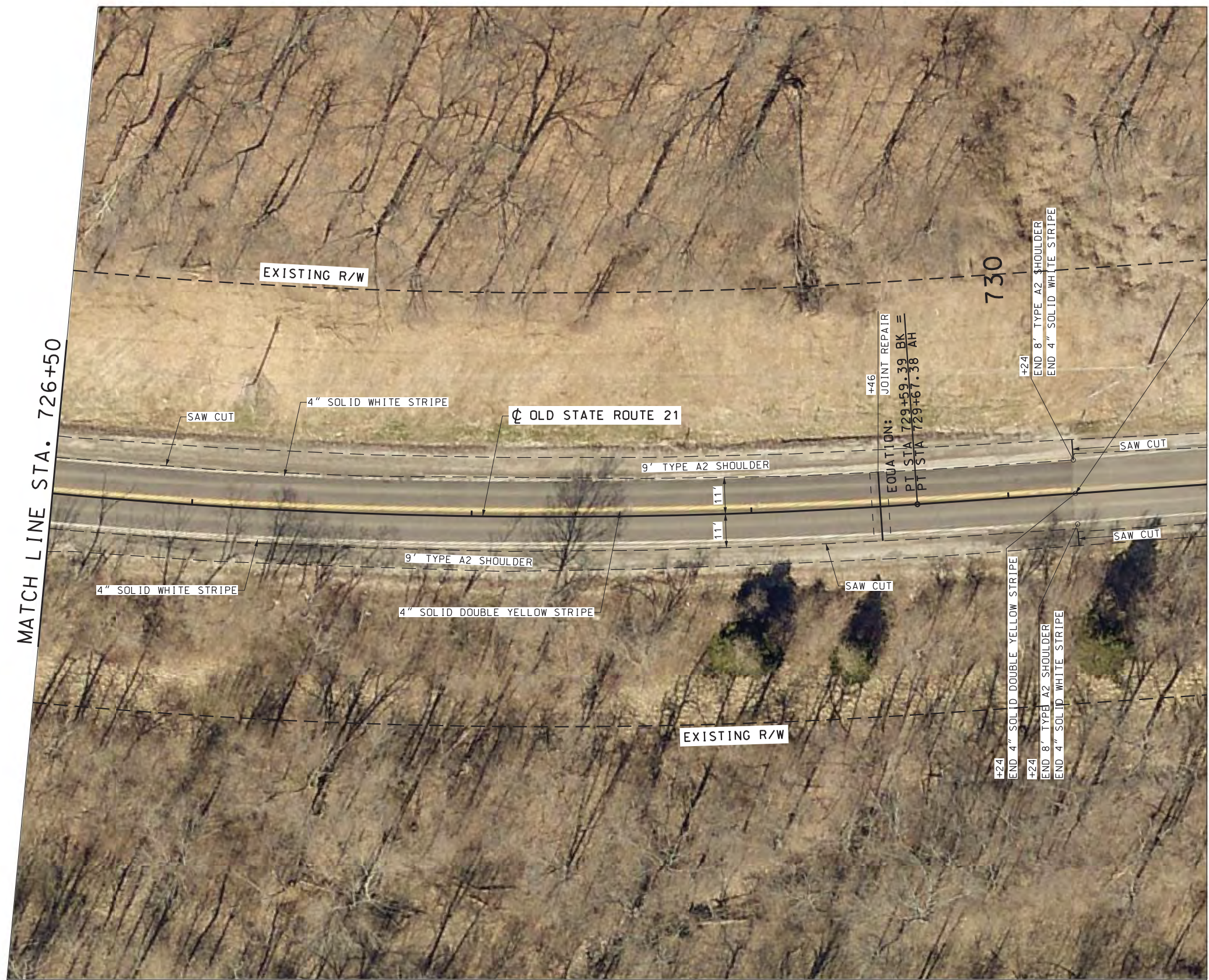
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSDALE, MO 63050
(636-797-5340)
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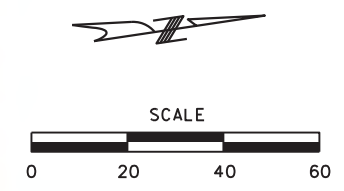
JACOBS

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE: 314.381.0000
FACSIMILE: 314.381.0000
CERTIFICATE OF AUTHORITY
#00704



STA. 730+24.00
END PHASE 2 IMPROVEMENTS
N 938,023.94
E 822,592.78

OLD STATE ROUTE 21
P.I. = 727+45.00
N = 937,751.97
E = 822,571.00
Δ = 12°55'00"
D = 2°53'50"
L = 216.22'
R = 430.61'
SF = 1910.08'
W = match exist.

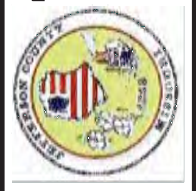


DATE PREPARED
03-NOV-2016
ROUTE **21** STATE **MO**
DISTRICT **SL** SHEET NO. **27**
COUNTY
JEFFERSON
JOB NO.
PW18039RDW
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

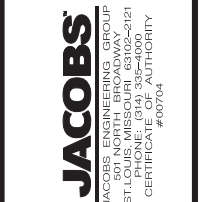
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
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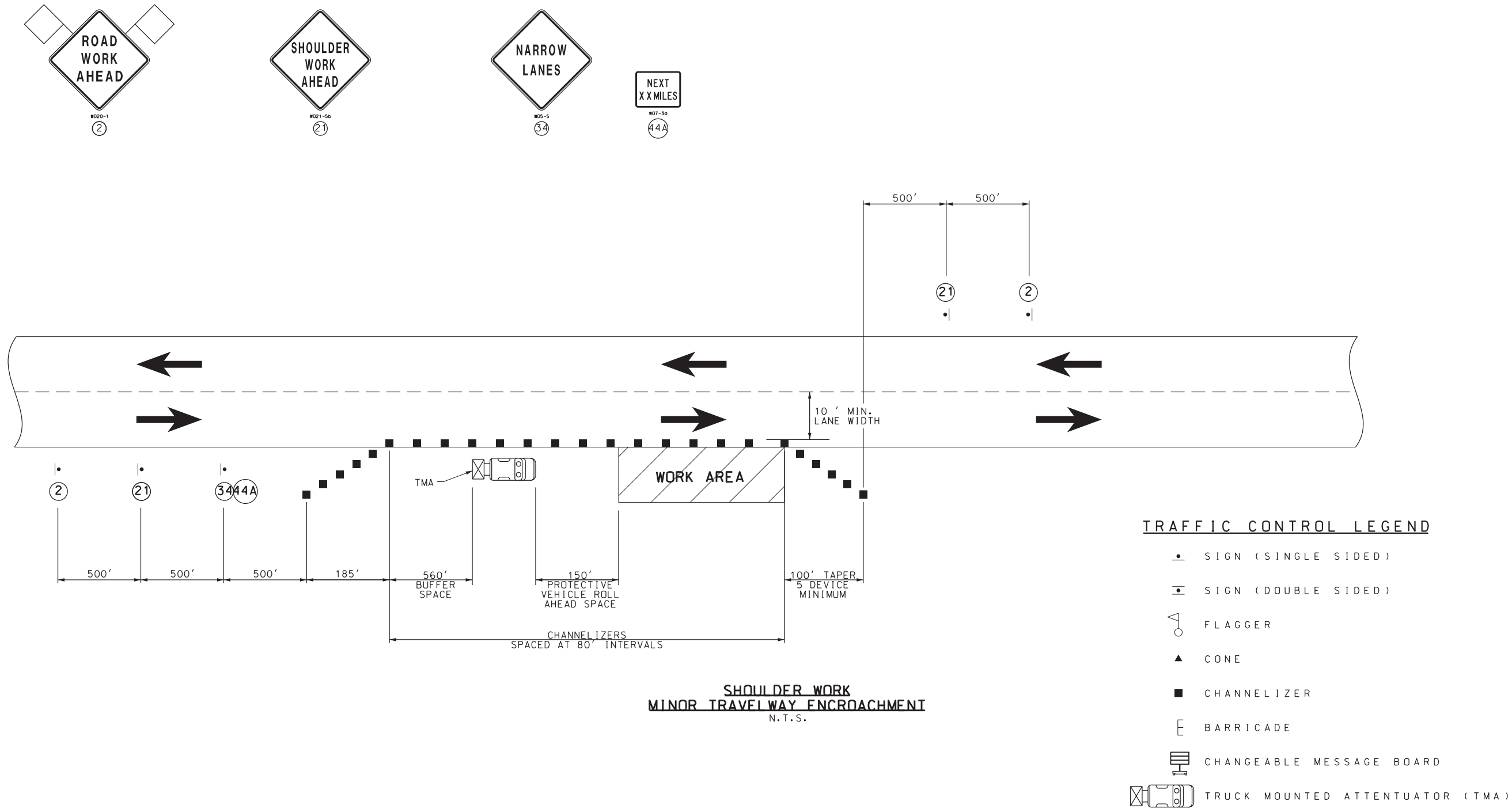
JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
REGISTERED PROFESSIONAL ENGINEER
#00704

1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO CURRENT MISSOURI DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. THE CONTRACTOR SHALL CONTACT JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT AT LEAST ONE WEEK PRIOR TO CLOSING A LANE OR SHOULDER.
3. SIGN SETS 1 AND 3 ARE ACTIVE AND FACING ONCOMING TRAFFIC.
4. SIGN SETS 2 AND 4 ARE INACTIVE AND NOT FACING EITHER DIRECTION OF TRAFFIC WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.
5. WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E. NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E. NEW SIGN SETS 2 AND 4).

1. MILL 3-1/2" OF ASPHALT ON OLD STATE ROUTE 21 TRAVELED-WAY AND MILL/GRADE SHOULDERS TO MATCH TRAVELED-WAY ELEVATION AND TO MAINTAIN POSITIVE DRAINAGE (THE COST TO MILL/GRADE SHOULDERS SHALL BE CONSIDERED INCIDENTAL & THE COST TO BE INCLUDED IN OTHER ITEMS).
2. CONSTRUCT FULL DEPTH PAVEMENT REPAIRS AT ALL LOCATIONS NOTED ON THE PLANS IN ACCORDANCE TO SECTION 613.10.2.3.2 OF MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
3. RESURFACE OLD STATE ROUTE 21 (1-3/4" LIFT OF BP-1).
4. CONSTRUCT OLD STATE ROUTE 21 A2 SHOULDERS (AGGREGATE BASE & 4" PMBB).
5. RESURFACE OLD STATE ROUTE 21 (FINAL LIFT OF 1-3/4" BP-1).
6. CONSTRUCT OLD STATE ROUTE 21 A2 SHOULDERS (1-3/4" BP-1).



- NOTES:
1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO CURRENT MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 2. THE CONTRACTOR SHALL CONTACT JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT AT LEAST ONE WEEK PRIOR TO CLOSING A LANE OR SHOULDER.
 3. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE NORMAL INGRESS & EGRESS TO PRIVATE ENTRANCES AT NO ADDITIONAL COST TO THE CONTRACT.
 4. SIGN 44A NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.



**SHOULDER WORK
MINOR TRAVELWAY ENCROACHMENT**
N.T.S.



DATE PREPARED 03-NOV-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 29
COUNTY JEFFERSON	
JOB NO. PW18039RDW	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



JACOBS

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE: 314.788.0000
FAX: 314.788.0000
CERTIFICATE OF AUTHORITY
#00704

1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO CURRENT MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. THE CONTRACTOR SHALL UTILIZE WATERBORNE PAINT, TYPE P BEADS FOR TEMPORARY MARKINGS ON MILLED SURFACES AND TYPE 2 TEMPORARY RAISED PAVEMENT MARKERS AFTER THE FIRST LIFT OF BP-1.
3. SIGN 23 (W08-17) TO REMAIN VISIBLE UNTIL SHOULDER SHAPING IS COMPLETE.
4. WHEN SIGN 23 (W08-17) SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE (3) DAYS, THE SHOULDER DROP-OFF PLAQUE (W08-17P) SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN (W08-17).



- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD
- TRUCK MOUNTED ATTENUATOR (TMA)

03-NOV-2016

21	MU
22	22

3E	30
COUNTY	

JOB NO.

CONTRACT ID.

BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 335-4000
CERTIFICATE OF AUTHORITY
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