

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

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 SHREWSBERRY AVENUE
SHREWSBERRY, MO 63119
OFFICE: 314-768-7767

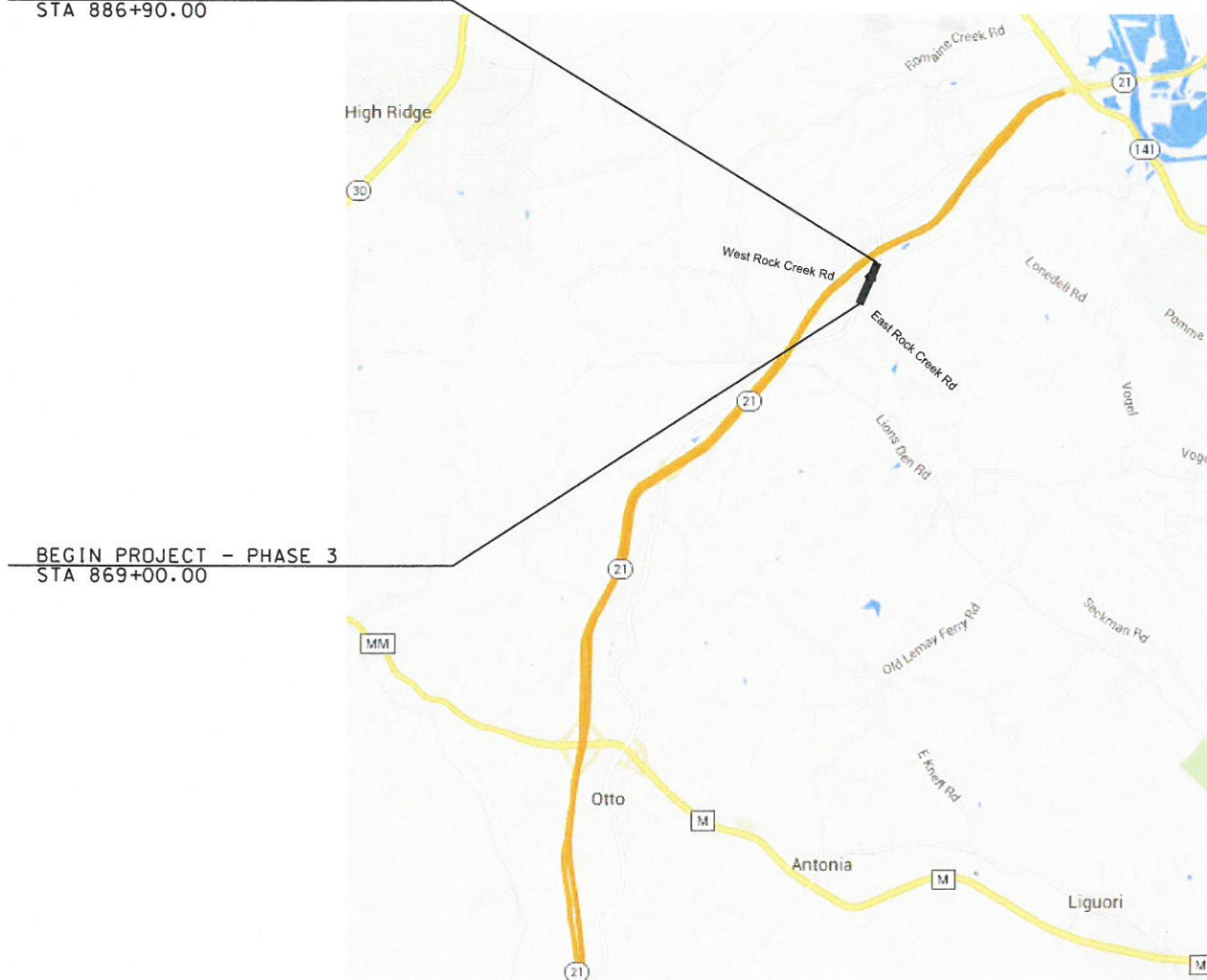
SEWER - ROCK CREEK
JASON SIEGER
4133 WEST OUTER ROAD
ARNOLD, MO 63010
OFFICE: 636-464-3305

PUBLIC WATER SUPPLY DISTRICT #3
pwsd3jb2@yahoo.com
1496 OLD STATE ROUTE 21
ARNOLD, MO 63026
OFFICE: 636-296-7053

	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		(LIP)
TO BE REMOVED		(R)
TO BE REMOVED & RELOCATED		(TBR&R)
USE IN PLACE		(UIP)

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

END PROJECT - PHASE 3
STA 886+90.00



BEGIN PROJECT - PHASE 3
STA 869+00.00



JASON JONAS, P.E.
DIRECTOR OF PUBLIC WORKS

DESCRIPTION	NUMBER
TITLE SHEET -----	1
TYPICAL SECTIONS (TS) (3 SHEETS)---	2
QUANTITIES (QU) (4 SHEETS)-----	3
PLAN-PROFILE (PP)-----	4-7
TRAFFIC CONTROL SHEETS (TC)-----	8-10

DATE PREPARED	
24-MAY-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	1
COUNTY	
JEFFERSON	
JOB NO.	
PW16039RDW	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

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



JACOBS
JACOBS ENGINEERING GROUP[®]
501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102-2121
PHONE: (314) 336-4000
CERTIFICATE OF AUTHORITY
#00704

BEGINNING OF PROJECT	STA. 869 + 00.00
END OF PROJECT	STA. 886 + 90.00

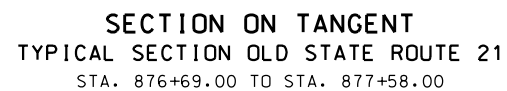
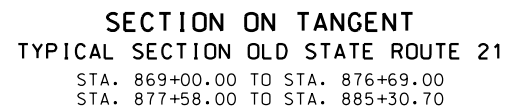
APPARENT LENGTH	1790.00
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EQUATIONS AND EXCEPTIONS:

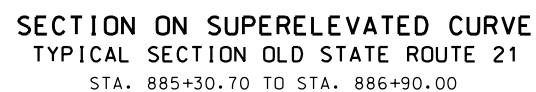
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	1790.00	FEET
LENGTH OF PROJECT	0.339	MILES

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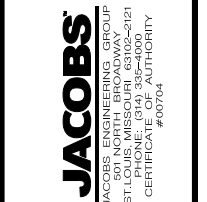
1. PLANT MIX BITUMINOUS PAVEMENT (BP-1) QUANTITY BASED UPON 1.929 TONS/CU. YD. COMPACTED MIXTURE
2. PLANT MIX BITUMINOUS BASE QUANTITY BASED UPON 1.931 TONS/CU. YD. COMPACTED MIXTURE
3. TACK COAT QUANTITY BASED UPON 0.08 GALLONS/SQ. YD.
4. PRIME COAT QUANTITY BASED UPON 0.45 GALLONS/SQ. YD.



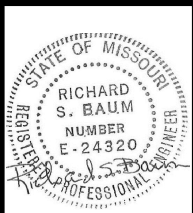
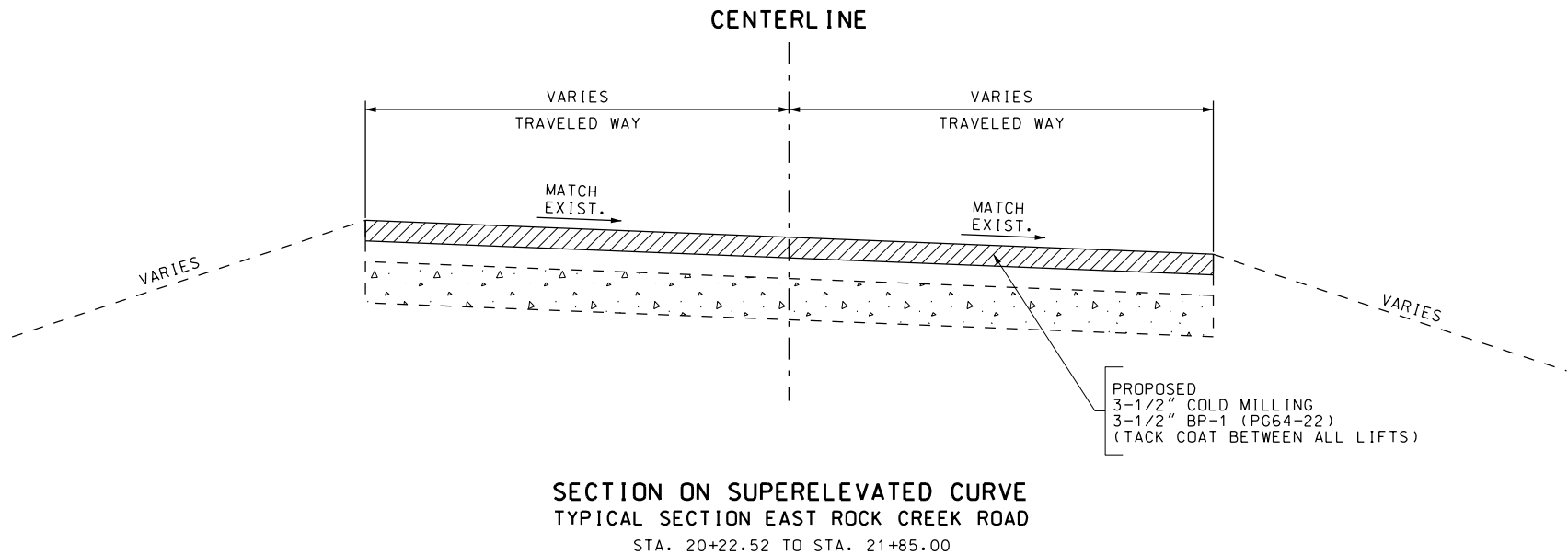
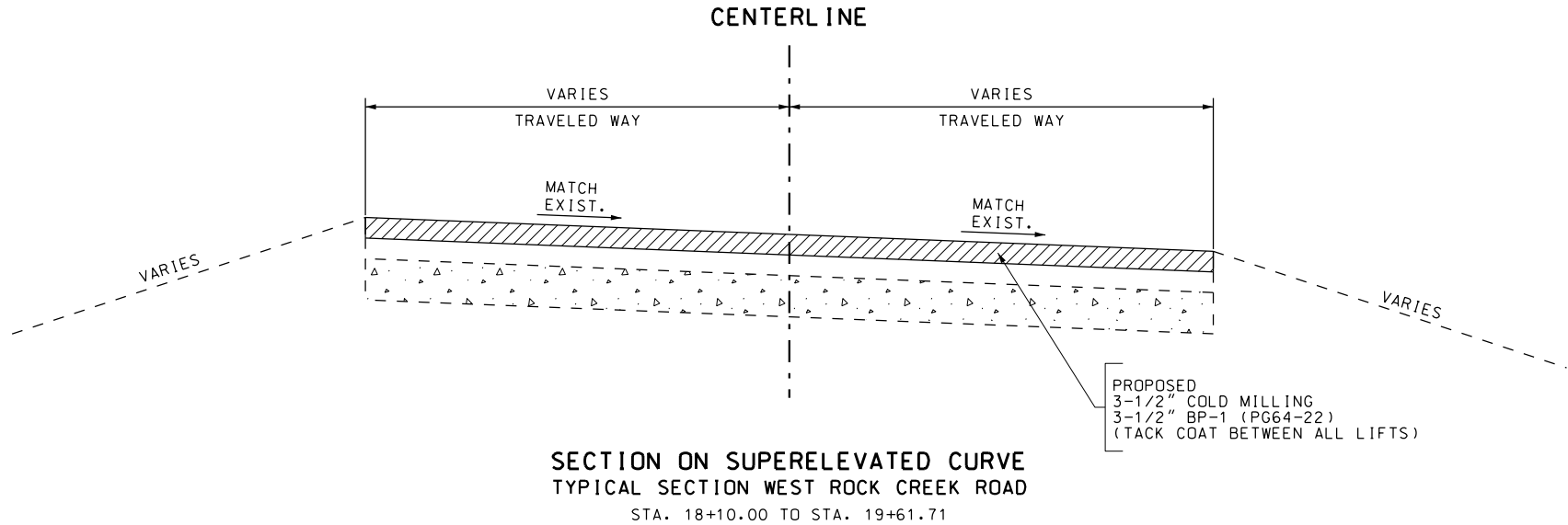
NOTE:
CONCRETE PAVEMENT SHALL BE DOWELED TO ADJOINING EXISTING CONCRETE
PAVEMENT. SEE MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLAN
613.00P FOR ADDITIONAL INFORMATION (DOWEL SIZE, SPACING, DIMENSIONS, ETC.)



- TYPICAL SECTIONS
SHEET 1 OF 3



NOTES:
1. ALL WORK SHALL CONFORM TO MISSOURI DEPARTMENT OF TRANSPORTATION'S
STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.



DATE PREPARED 24-MAY-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 2
COUNTY JEFFERSON	
JOB NO. PW16039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

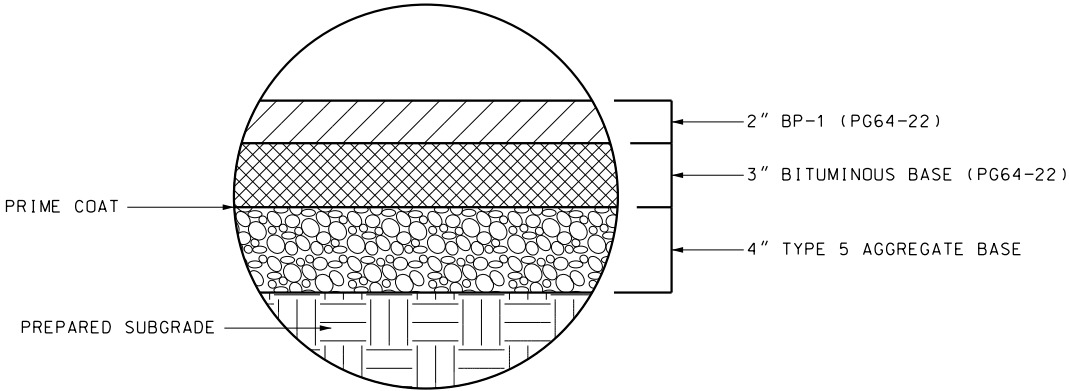
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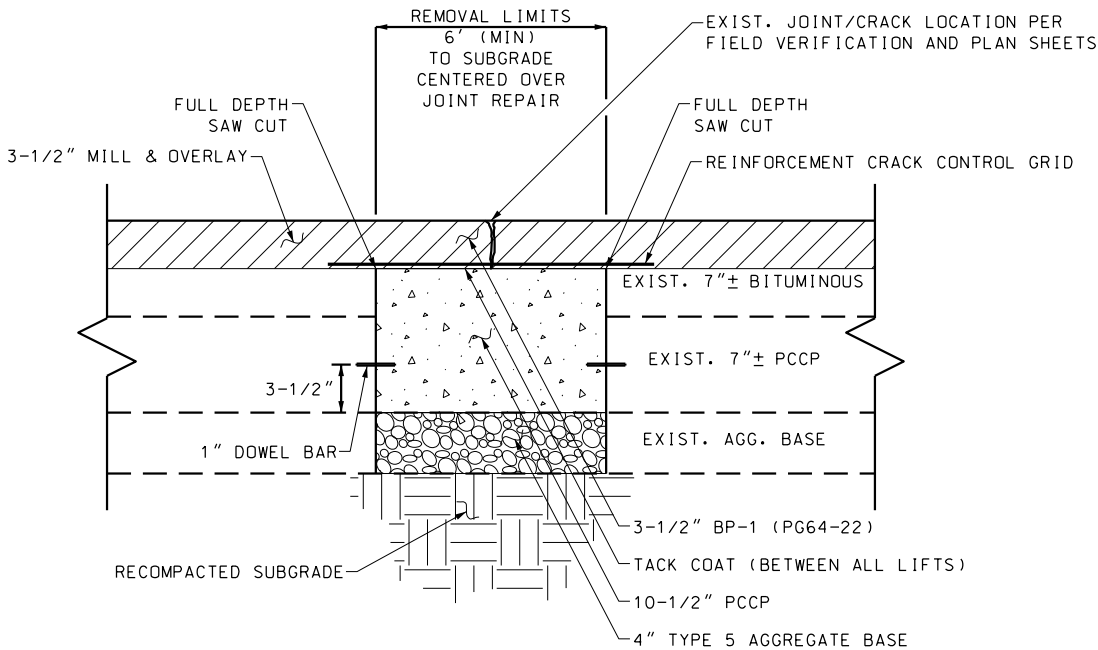
JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE: 314.381.0000
FAX: 314.381.0001
CERTIFICATE OF AUTHORITY
#00704

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.



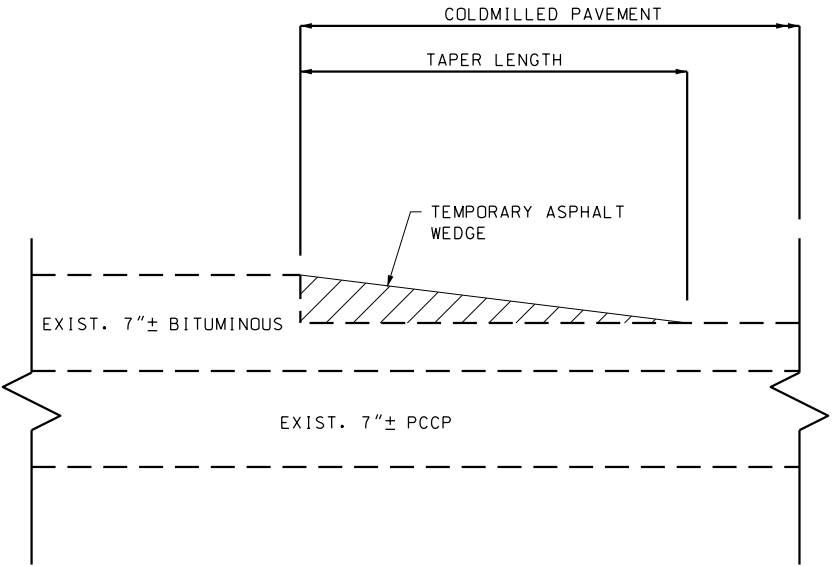
ASPHALT TYPE 1 DRIVEWAY DETAIL
N.T.S.



NOTES:

1. SEE MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLAN 613.00P 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 THAT 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.

TEMPORARY TRANSVERSE ASPHALT TAPER
N.T.S.



DATE PREPARED 24-MAY-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 2
COUNTY JEFFERSON	
JOB NO. PW16039RDW	
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BRIDGE NO.

DATE	DESCRIPTION

JEFFERSON COUNTY
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P.O. BOX 100
HILLSBORO, MO 63050
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www.jeffco.org



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SUMMARY OF QUANTITIES

2B



DATE PREPARED	
24-MAY-2016	
ROUTE	STATE
21	MO
DISTRICT	SHEET NO.
SL	3
COUNTY	
JEFFERSON	
JOB NO.	
PW16039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

[illegible]

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



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PHONE: (314) 335-4000
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REMOVAL OF IMPROVEMENTS				
SHEET	STATION	STATION	LOCATION	DESCRIPTION
4	869+32	869+38	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
4	869+83	869+89	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
4	870+82	870+95	OLD ROUTE 21, LT & RT	34.7 SY CONC PVM' T
4	871+11		OLD ROUTE 21, LT	MAILBOX
4	871+49	871+55	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
4	872+00	872+06	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
4	873+02	873+08	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
4	874+02	874+08	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
5	874+53	874+59	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
5	875+03	875+09	OLD ROUTE 21, LT & RT	18.7 SY CONC PVM' T
5	875+54	875+60	OLD ROUTE 21, LT & RT	21.0 SY CONC PVM' T
5	876+69	877+58	OLD ROUTE 21, LT & RT	423.8 SY CONC PVM' T
6	881+76	881+82	OLD ROUTE 21, LT & RT	20.0 SY CONC PVM' T
6	882+36		OLD ROUTE 21, LT	MAILBOX
6	882+55	882+61	OLD ROUTE 21, LT & RT	18.0 SY CONC PVM' T
7	883+87		OLD ROUTE 21, LT	MAILBOX
7	884+52	884+58	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
7	884+93		OLD ROUTE 21, LT	MAILBOX
7	885+02	885+08	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
7	886+02	886+08	OLD ROUTE 21, LT & RT	16.0 SY CONC PVM' T
7	886+51	886+57	OLD ROUTE 21, RT	8.0 SY CONC PVM' T
			TOTAL	1 LUMP SUM

PAVEMENT QUANTITIES							
SHEET	STATION	STATION	LOCATION	COLD MILLING	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)	TACK COAT	TYPE A2 SHOULDER
				SY	TON	GAL	SY
4	869+00	874+25	OLD ROUTE 21, LT & RT	1400	262.6	224	933.3
5	874+25	874+89	OLD ROUTE 21, LT & RT	171	32.0	28	113.8
5	874+89	878+90	OLD ROUTE 21, LT & RT	1769	331.8	284	
5	874+89	876+39	OLD ROUTE 21, LT				100.0
5	876+39	877+73	OLD ROUTE 21, LT				59.6
5	874+89	876+39	OLD ROUTE 21, RT				100.0
5	876+39	877+79	OLD ROUTE 21, RT				62.2
5	18+10	19+62	WEST ROCK CREEK RD	531	99.5	84	
5	20+23	21+85	EAST ROCK CREEK RD	778	146.0	124	
6	878+90	882+32	OLD ROUTE 21, LT & RT	1639	307.4	262	
6	882+32	883+40	OLD ROUTE 21, LT & RT	288	54.0	46	192.0
6	879+38	880+65	OLD ROUTE 21, LT				56.4
6	881+07	883+40	OLD ROUTE 21, LT				207.1
5-6	878+60	879+00	OLD ROUTE 21, LT				17.8
5-6	878+75	880+07	OLD ROUTE 21, RT				58.7
6	880+07	883+40	OLD ROUTE 21, RT				296.0
7	883+40	886+90	OLD ROUTE 21, LT & RT	933	175.0	75	622.2
			TOTAL	7,509	1408.3	1127	2,819.1

L INEAR GRADING						
SHEET	STATION	STATION	LOCATION	CLASS 1	CLASS 2	COMMENT
				STA	STA	
4	869+00	874+25	OLD ROUTE 21, LT		5.3	SHOULDER
4	869+00	874+25	OLD ROUTE 21, RT		5.3	SHOULDER
4	871+13		OLD ROUTE 21, LT	0.3		DRIVEWAY
5	874+25	877+73	OLD ROUTE 21, LT		3.5	SHOULDER
5	878+60	878+90	OLD ROUTE 21, LT		0.3	SHOULDER
5	874+25	877+79	OLD ROUTE 21, RT		3.5	SHOULDER
5	878+75	878+90	OLD ROUTE 21, RT		0.2	SHOULDER
6	878+90	883+40	OLD ROUTE 21, RT		4.5	SHOULDER
6	878+90	879+00	OLD ROUTE 21, LT		0.1	SHOULDER
6	879+38	880+65	OLD ROUTE 21, LT		1.3	SHOULDER
6	881+07	883+40	OLD ROUTE 21, LT		2.3	SHOULDER
7	883+40	886+90	OLD ROUTE 21, LT		3.5	SHOULDER
7	883+40	886+90	OLD ROUTE 21, RT		3.5	SHOULDER
7	883+70		OLD ROUTE 21, LT	0.2		DRIVEWAY
7	885+03		OLD ROUTE 21, LT	0.2		DRIVEWAY
7	885+95		OLD ROUTE 21, LT	0.2		DRIVEWAY
			TOTAL	0.9	33.3	

BITUMINOUS RUMBLE STRIPS					
SHEET	STATION	STATION	LOCATION	CENTERLINE	SHOULDER
				STA	STA
4	869+00	874+25	OLD ROUTE 21	5.3	
4	869+00	870+65	OLD ROUTE 21, LT		1.7
4	872+75	874+25	OLD ROUTE 21, LT		1.5
4	869+00	874+25	OLD ROUTE 21, RT		5.3
5	874+25	874+89	OLD ROUTE 21	0.6	
5	874+25	877+20	OLD ROUTE 21, LT		3.0
5	874+25	876+50	OLD ROUTE 21, RT		2.3
6	882+32	883+40	OLD ROUTE 21	1.1	
6	880+55	883+40	OLD ROUTE 21, RT		2.9
7	883+40	886+90	OLD ROUTE 21	3.5	
7	883+40	886+90	OLD ROUTE 21, RT		3.5
			TOTAL	10.5	20.2

MOBILIZATION	
TOTAL	1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 4

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
SUMMARY OF QUANTITIES

2B

PAVEMENT REPAIR QUANTITIES										
SHEET	STATION	STATION	LOCATION	FURNISHING & PLACING CONCRETE MATERIAL FOR PAVEMENT REPAIR	SUBGRADE COMPACTION (6 IN. DEPTH) (PAVEMENT REPAIR)	TYPE 1 OR TYPE 5 AGGR. BASE (4 IN. THICK) (PAVEMENT REPAIR)	FULL DEPTH PAVEMENT REPAIR SAW CUT	DOWEL BAR (DRILLING, FURNISHING, AND INSTALLATION) FOR FULL DEPTH PAVEMENT REPAIR	DOWEL BAR (FURNISHING AND INSTALLATION WITH BASKETS) FOR FULL DEPTH PAVEMENT REPAIR	ASPHALT REINFORCEMENT CRACK CONTROL GRID
				SY	SY	SY	LF	EA	EA	SY
4	869+35		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
4	869+86		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
4	870+82	870+95	OLD ROUTE 21, LT & RT	34.7	35	35	48	40		42.7
4	871+52		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
4	872+03		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
4	873+05		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
4	874+05		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
5	874+56		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
5	875+06		OLD ROUTE 21, LT & RT	18.7	19	19	56	46		28.0
5	875+57		OLD ROUTE 21, LT & RT	21.0	21	21	63	52		31.5
5	876+69	877+58	OLD ROUTE 21, LT & RT	356.0	376	376	72	60	150	
6	881+79		OLD ROUTE 21, LT & RT	20.0	20	20	60	50		30.0
6	882+58		OLD ROUTE 21, LT & RT	18.0	18	18	54	44		27.0
7	884+55		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
7	885+05		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
7	886+05		OLD ROUTE 21, LT & RT	16.0	16	16	48	40		24.0
7	886+54		OLD ROUTE 21, RT	8.0	8	8	24	20		12.0
			TOTAL	636.4	657	657	857	712	150	411.2

ENTRANCES AND PAVED APPROACHES													
SHEET	STATION	SKEW	LOCATION	TYPE	RADIUS	WIDTH	LENGTH	PAVED APPROACH	GRAVEL (A) OR CRUSHED STONE (B)	TYPE 5 AGGR. BASE (4 IN.)	PRIME COAT	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BP-1)
					FEET	FEET	FEET	SY	SY	SY	GAL	TON	TON
4	871+12.65	21°29'22" L.A.	OLD ROUTE 21, LT	1	25	10	31			51	23	8.2	5.5
7	883+69.73		OLD ROUTE 21, LT	1	25	23	18			49	22	7.9	5.3
7	885+02.50		OLD ROUTE 21, LT	1	25	12	17			28	13	4.6	3.0
7	885+94.65	4°15'30" R.A.	OLD ROUTE 21, LT	1	25	15	17			35	16	5.6	3.7
			TOTAL					0.0	0	163	74	26.3	17.5



DATE PREPARED 24-MAY-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 3
COUNTY JEFFERSON	
JOB NO. PW16039RDW	
CONTRACT ID.	

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, MISSOURI 63102
PHONE 314.785.0000
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CERTIFICATE OF AUTHORITY
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
SUMMARY OF QUANTITIES

2B



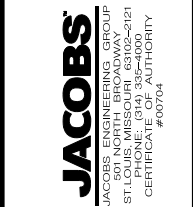
DATE PREPARED 24-MAY-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 3
COUNTY JEFFERSON	
JOB NO. PW16039RDW	
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PROJECT NO.
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DESCRIPTION	DATE													

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PAVEMENT MARKING												
SHEET	STATION	STATION	LOCATION	WATERBORNE PAINT, TYPE P BEADS			TYPE 2 PREFORMED MARKING TAPE (GROOVED)					
				4" SOLID WHITE	4" SOLID YELLOW	4" INT. YELLOW	24" SOLID WHITE STOP LINE	LEFT ARROW	STRAIGHT-LEFT ARROW	STRAIGHT ARROW	RIGHT ARROW	STRAIGHT-RIGHT ARROW
				LF	LF	LF	LF	EACH	EACH	EACH	EACH	EACH
4	869+00	874+25	OLD ROUTE 21	1050	725	81						
5	874+25	878+90	OLD ROUTE 21	838	1022		60	2				2
5	18+10	19+65	WEST ROCK CREEK RD	396	310		30	1				1
5	20+46	21+85	EAST ROCK CREEK RD	465	278		30		2		2	
6	878+90	883+40	OLD ROUTE 21	1067	1350			2		2	2	
7	883+40	886+90	OLD ROUTE 21	700	700							
			TOTAL	4516	4385	81	120	5	2	2	4	3

TEMPORARY PAVEMENT MARKING														
SHEET	STATION	STATION	LOCATION	TEMPORARY RAISED PAVEMENT MARKER			WATERBORNE PAINT, TYPE P BEADS			TEMPORARY MARKING				
				TYPE 1 (WHITE)	TYPE 2 (WHITE)	TYPE 2 (YELLOW)	4" SOLID WHITE	4" SOLID YELLOW	24" SOLID WHITE STOP LINE	LEFT ARROW	STRAIGHT-LEFT ARROW	STRAIGHT ARROW	RIGHT ARROW	STRAIGHT-RIGHT ARROW
				EA	EA	EA	LF	LF	LF	EACH	EACH	EACH	EACH	EACH
4	869+00	874+25	OLD ROUTE 21	18		13		52						
5	874+25	878+90	OLD ROUTE 21	6	8	15	32	60	60	4				4
5	18+10	19+65	WEST ROCK CREEK RD		3	8	12	32	30	2				2
5	20+46	21+85	EAST ROCK CREEK RD		7	7	28	28	30		4		4	
6	878+90	883+40	OLD ROUTE 21	9	8	17	32	68		4		4	4	
7	883+40	886+90	OLD ROUTE 21	12		9		36						
			TOTAL	45	26	69	104	276	120	10	4	4	8	6

PAVEMENT EDGE TREATMENT				
SHEET	STATION	STATION	LOCATION	LF
4	869+00	874+25	OLD ROUTE 21, LT	525
4	869+00	874+25	OLD ROUTE 21, RT	525
5	874+25	877+73	OLD ROUTE 21, LT	348
5	874+25	877+79	OLD ROUTE 21, RT	354
5	878+75	878+90	OLD ROUTE 21, RT	15
6	879+38	880+65	OLD ROUTE 21, LT	127
6	881+07	883+40	OLD ROUTE 21, LT	233
6	878+90	883+40	OLD ROUTE 21, RT	450
7	883+40	886+90	OLD ROUTE 21, LT	350
7	883+40	886+90	OLD ROUTE 21, RT	350
			TOTAL	3277

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
WO1-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
WO1-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
WO1-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
WO1-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-8	18X24	3.00					CHEVRON (SYMBOL)
WO1-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00					STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00					YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00					BE PREPARED TO STOP
WO3-5	48X48	16.00					SPEED LIMIT AHEAD
WO4-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
WO5-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00					ONE LANE BRIDGE
WO5-5	48X48	16.00	1	16.00			NARROW LANES
WO6-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00					BUMP
WO8-2	48X48	16.00					DIP
WO8-3	48X48	16.00					PAVEMENT ENDS
WO8-4	48X48	16.00					SOFT SHOULDER
WO8-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00					TRUCK CROSSING WITH FLAGS
WO8-6c	48X48	16.00					TRUCK ENTRANCE
WO8-7	36X36	9.00					LOOSE GRAVEL
WO8-9	48X48	16.00					LOW SHOULDER
WO8-11	48X48	16.00					UNEVEN LANES
WO8-12	48X48	16.00					NO CENTER LINE
W10-1	42 RND.	9.62					RAILROAD CROSSING
WO12-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO8-15	48X48	16.00					GROOVED PAVEMENT
WO8-15p	30X24	5.00					MOTORCYCLE (PLAQUE)
WO8-17	48X48	16.00	4	64.00			SHOULDER DROP-OFF (SYMBOL)
WO8-17p	30X24	5.00	4	20.00			SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25					ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00					XXX FEET (PLAQUE)
WO16-3	30X24	5.00					X MILE (PLAQUE)
WO20-1	48X48	16.00	4	64.00			ROAD/BRIDGE/RAMP WORK AHEAD
WO20-2	48X48	16.00	2	32.00			DETOUR AHEAD
WO20-3	48X48	16.00					ROAD CLOSED AHEAD
WO20-4	48X48	16.00	2	32.00			ONE LANE ROAD AHEAD
WO20-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WO20-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
WO20-7a	48X48	16.00	2	32.00			FLAGGER (SYMBOL) WITH FLAGS
WO21-2	36X36	9.00					FRESH OIL
WO21-5b	48X48	16.00	2	32.00			SHOULDER WORK AHEAD
WO22-1	48X48	16.00					BLASTING ZONE AHEAD
WO22-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50					END BLASTING ZONE
WO22-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
EO5-1	36X48	12.00					GORE EXIT
EO5-2	48X36	12.00					EXIT OPEN
EO5-2a	48X36	12.00					EXIT CLOSED
GO20-1	60X24	10.00					ROAD WORK NEXT XX MILES
GO20-2	48X24	8.00					END ROAD WORK
GO20-4	36X18	4.50					PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
GO20-5aP	36X24	6.00					WORK ZONE (PLAQUE)
MO4-8a	24X18	3.00	2	6.00			END DETOUR
MO4-9L	48X36	12.00	5	60.00			DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00	5	60.00			DETOUR (RIGHT ARROW)
MO4-10L	48X18	6.00					DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00					DETOUR (ARROW RIGHT)
MO4-9S	48X36	12.00	1	12.00			DETOUR (STRAIGHT ARROW)
	48X30	10.00	8	80.00			OLD ROUTE 21
	48X30	10.00	2	20.00			(SB) OLD ROUTE 21
	48X30	10.00	1	10.00			(NB) OLD ROUTE 21
REGULATORY SIGNS							
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	36X48	12.00					SPEED LIMIT XX
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	2	20.00			ROAD CLOSED
R11-3a	60X30	12.50	1	12.50			ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
SPECIAL	36X48	12.00					POINT OF PRESENCE
SPECIAL	96X48	32.00					POINT OF PRESENCE
CONST-7-48	48X24	8.00					RATE OUR WORK ZONE
CONST-7-72	72X36	18.00					RATE OUR WORK ZONE

616-10.05				572.50	
CONSTRUCTION SIGNS TOTAL					
616-10.10					
RELOCATED SIGNS TOTAL					

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR ARRAY (RELOCATION)
6123000A	1	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008		ADVANCED WARNING RAIL SYSTEM
6161009		FLAG ASSEMBLY
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	80	CHANNELIZER (TRIM LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028		CHANNELIZER
6161030		TYPE III MOVEABLE BARRICADE
6161031	13	TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040		FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A	2	CHANGEABLE MESSAGE SIGN, W/O COMMUNICATION INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161100		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING



DATE PREPARED
24-MAY-2016

ROUTE
21

DISTRICT
SL

STATE
MO

SHEET NO.
3

COUNTY
JEFFERSON

JOB NO.
PW16039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



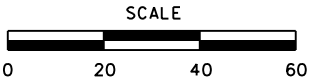
JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE 314.788.0000
FACSIMILE 314.788.0000
CERTIFICATE OF AUTHORITY
#00704

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

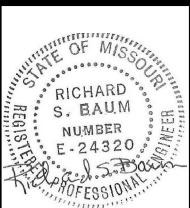
GENERAL NOTES:

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-ROSCHE, 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.



MATCH LINE STA. 874+25



DATE PREPARED 24-MAY-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 4
COUNTY JEFFERSON	
JOB NO. PW16039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

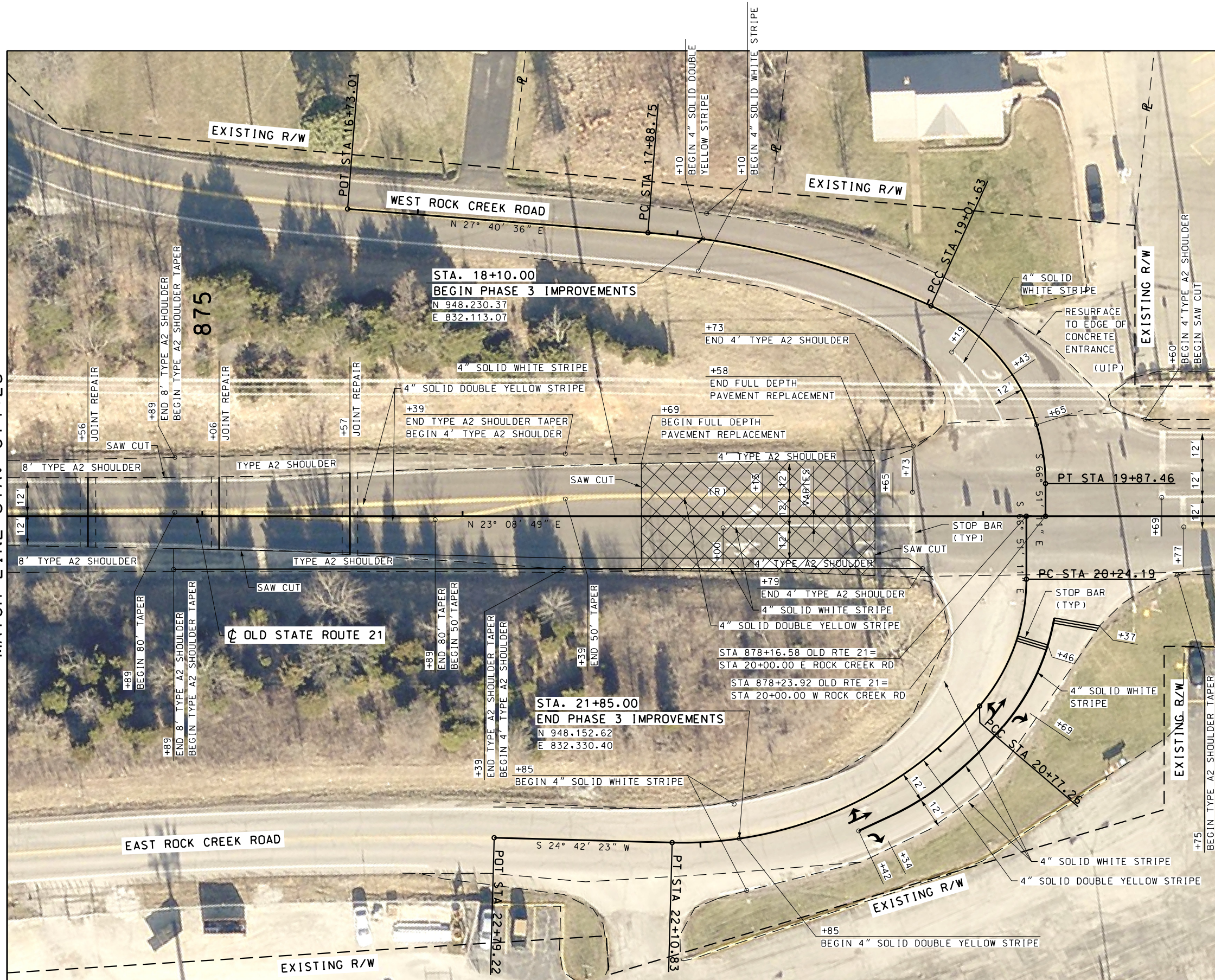
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE 314.352.0000
FAX 314.352.0001
CERTIFICATE OF AUTHORITY
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HILLSBORO, MO 63050
(636-797-5340)
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MATCH LINE STA. 874+25

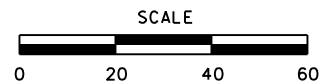
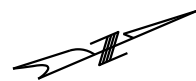


W ROCK CREEK RD
P.I. 18+45.76
N = 948.262.38
E = 832.129.07
Δ = 19° 53' 57"
D = 17° 37' 46"
T = 57.01'
L = 112.87'
R = 325.00'
SE = match exist.
W = N/A

W ROCK CREEK RD
P.I. 19+49.93
N = 948.333.43
E = 832.206.81
Δ = 65° 34' 15"
D = 76° 23' 40"
T = 48.31'
L = 85.83'
R = 75.00'
SE = match exist.
W = N/A

E ROCK CREEK RD
P.I. 20+51.89
N = 948.282.36
E = 832.307.59
Δ = 40° 32' 19"
D = 76° 23' 40"
T = 27.70'
L = 53.06'
R = 75.00'
SE = match exist.
W = N/A

E ROCK CREEK RD
P.I. 21+48.84
N = 948.193.37
E = 832.351.59
Δ = 51° 01' 15"
D = 38° 11' 50"
T = 71.58'
L = 133.57'
R = 150.00'
SE = match exist.
W = N/A



DATE PREPARED
24-MAY-2016
ROUTE **21** STATE **MO**
DISTRICT **SL** SHEET NO. **5**
COUNTY
JEFFERSON
JOB NO.
PW16039RDW
CONTRACT ID.

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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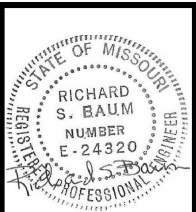
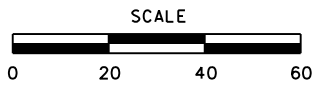


JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE: 314.788.0000
FAX: 314.788.0000
CERTIFICATE OF AUTHORITY
#00704



MATCH LINE STA. 878+90

MATCH LINE STA. 883+40



DATE PREPARED 24-MAY-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 6
COUNTY JEFFERSON	
JOB NO. PW16039RDW	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

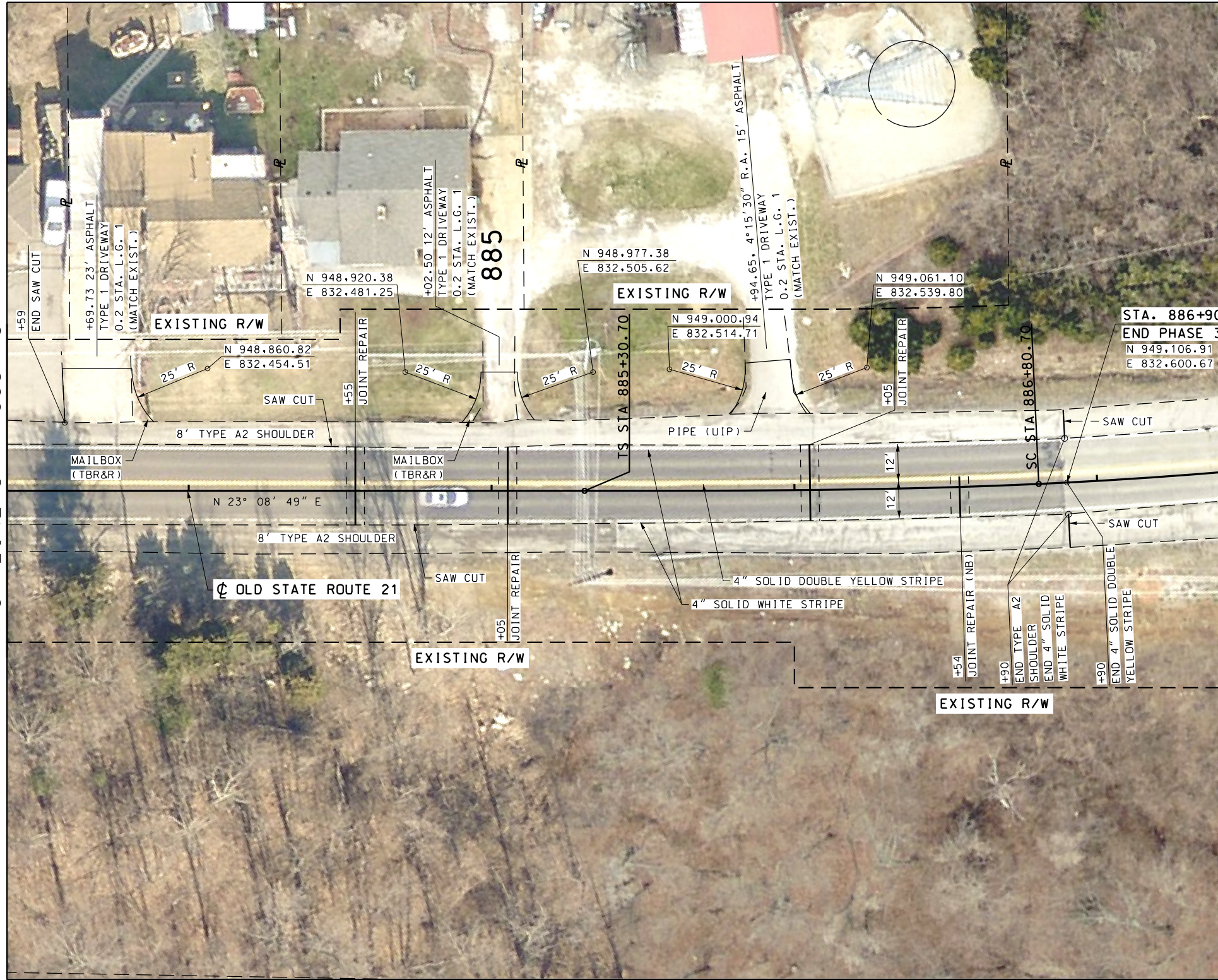
JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT



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501 NORTH BROADWAY
ST. LOUIS, MISSOURI 63102
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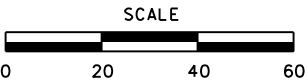
MATCH LINE STA. 883+40



OLD STATE ROUTE 21
P.I. = 890+97.00
N = 949,480.10
E = 832,763.19
Δ = 33°24'00\"/>

Dc = 3°30'00\"/>
Ts = 566.30'
Lc = 804.28'
Rc = 1637.02'
SE = match exist.
OS = 2'37'30\"/>
Xc = 149.97'
Yc = 2.29'

STA. 886+90.00
END PHASE 3 IMPROVEMENTS
N 949,106.91
E 832,600.67



DATE PREPARED 24-MAY-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 7
COUNTY JEFFERSON	
JOB NO. PW16039RDW	
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



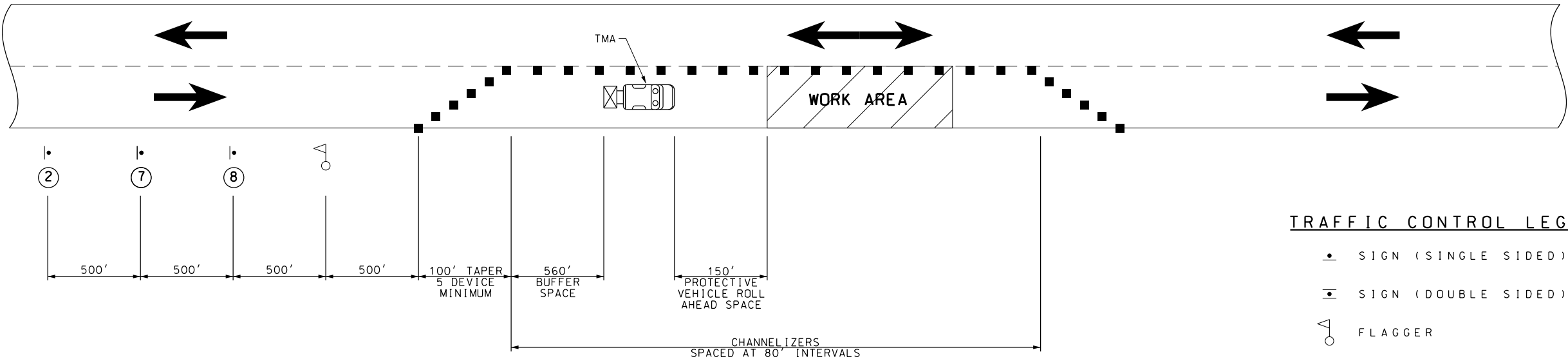
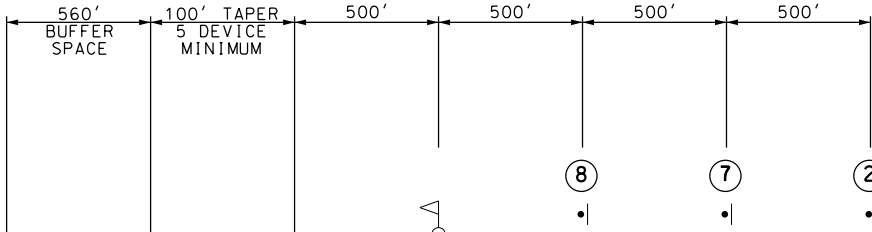
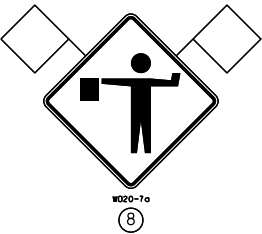
JACOBS
JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE 314.351.0000
FAX 314.351.0000
CERTIFICATE OF AUTHORITY
#00704

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.

SUGGESTED CONSTRUCTION SEQUENCE FOR OLD STATE ROUTE 21 IMPROVEMENTS:

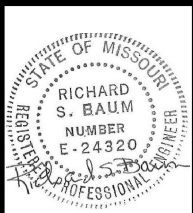
1. MILL 3-1/2" OF ASPHALT ON OLD STATE ROUTE 21 TRAVELED-WAY AND MILL/GRADE SHOULDERS TO MATCH TRAVELED-WAY ELEVATION AND TO MAINTAIN POSITIVE DRAINAGE (THE COST TO MILL/GRADE SHOULDERS SHALL BE CONSIDERED INCIDENTAL & THE COST TO BE INCLUDED IN OTHER ITEMS).
2. CONSTRUCT FULL DEPTH PAVEMENT REPAIR AT ALL LOCATIONS NOTED ON THE PLANS (REPAIRS SOUTH OF E/W ROCK CREEK ROAD IN ACCORDANCE TO SECTION 613.10.2.3.1 OF MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION) (REPAIRS NORTH OF E/W ROCK CREEK ROAD 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).



FLAGGER CONTROL FOR MOVING OPERATION
ONE-LANE TWO-WAY OPERATION
N.T.S.

TRAFFIC CONTROL LEGEND

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



DATE PREPARED
24-MAY-2016

ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 8

COUNTY
JEFFERSON

JOB NO.
PW16039RDW

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

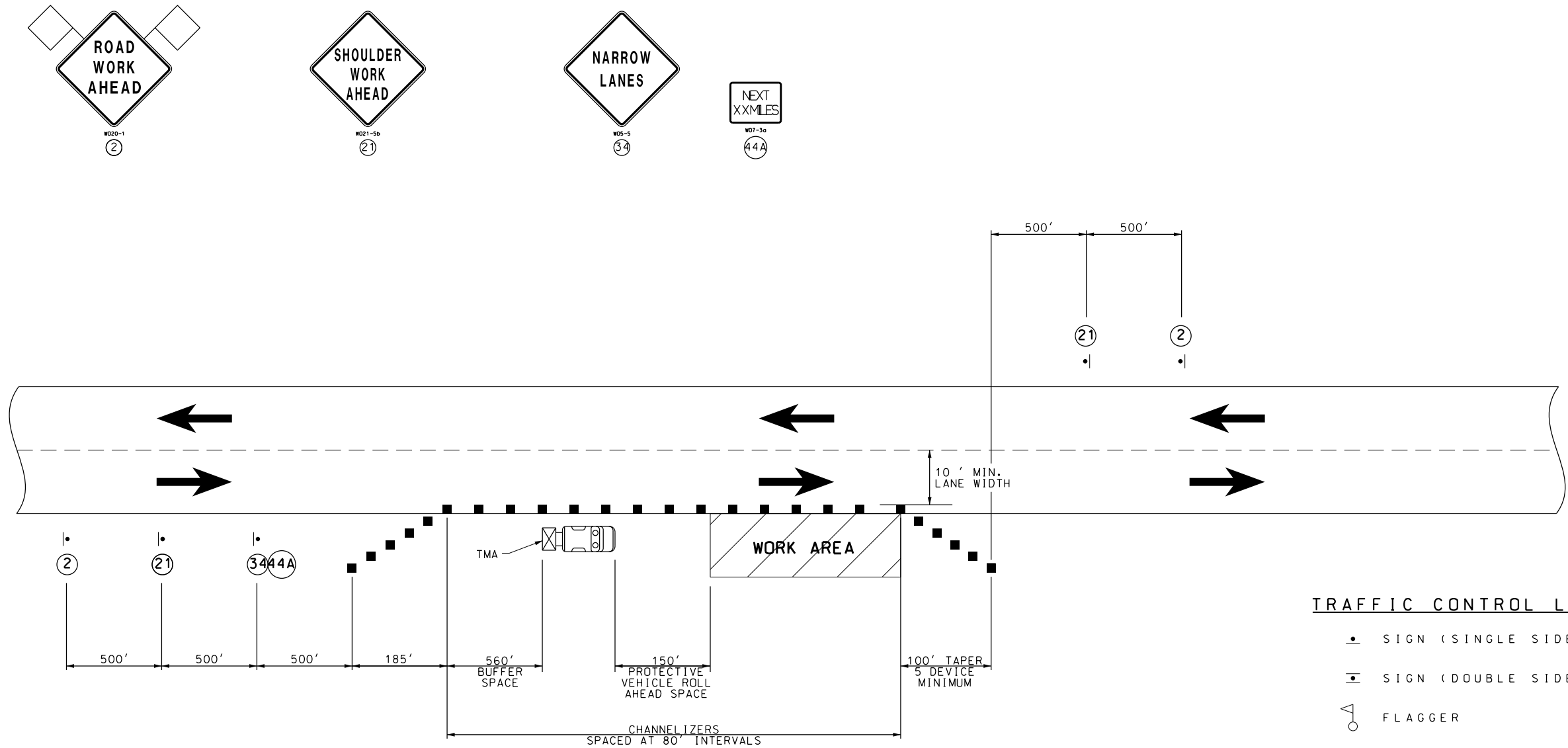
JEFFERSON COUNTY
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NOTES:

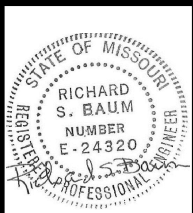
1. ALL TRAFFIC CONTROL SIGNS AND DEVICES SHALL CONFORM TO CURRENT MISSOURI DEPARTMENT OF TRANSPORTATION'S STANDARD PLANS AND STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
2. THE CONTRACTOR SHALL CONTACT JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT AT LEAST ONE WEEK PRIOR TO CLOSING A LANE OR SHOULDER.
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.

TRAFFIC CONTROL LEGEND

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



DATE PREPARED 24-MAY-2016	
ROUTE 21	STATE MO
DISTRICT SL	SHEET NO. 9
COUNTY JEFFERSON	
JOB NO. PW16039RDW	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

JEFFERSON COUNTY
PUBLIC WORKS DEPARTMENT

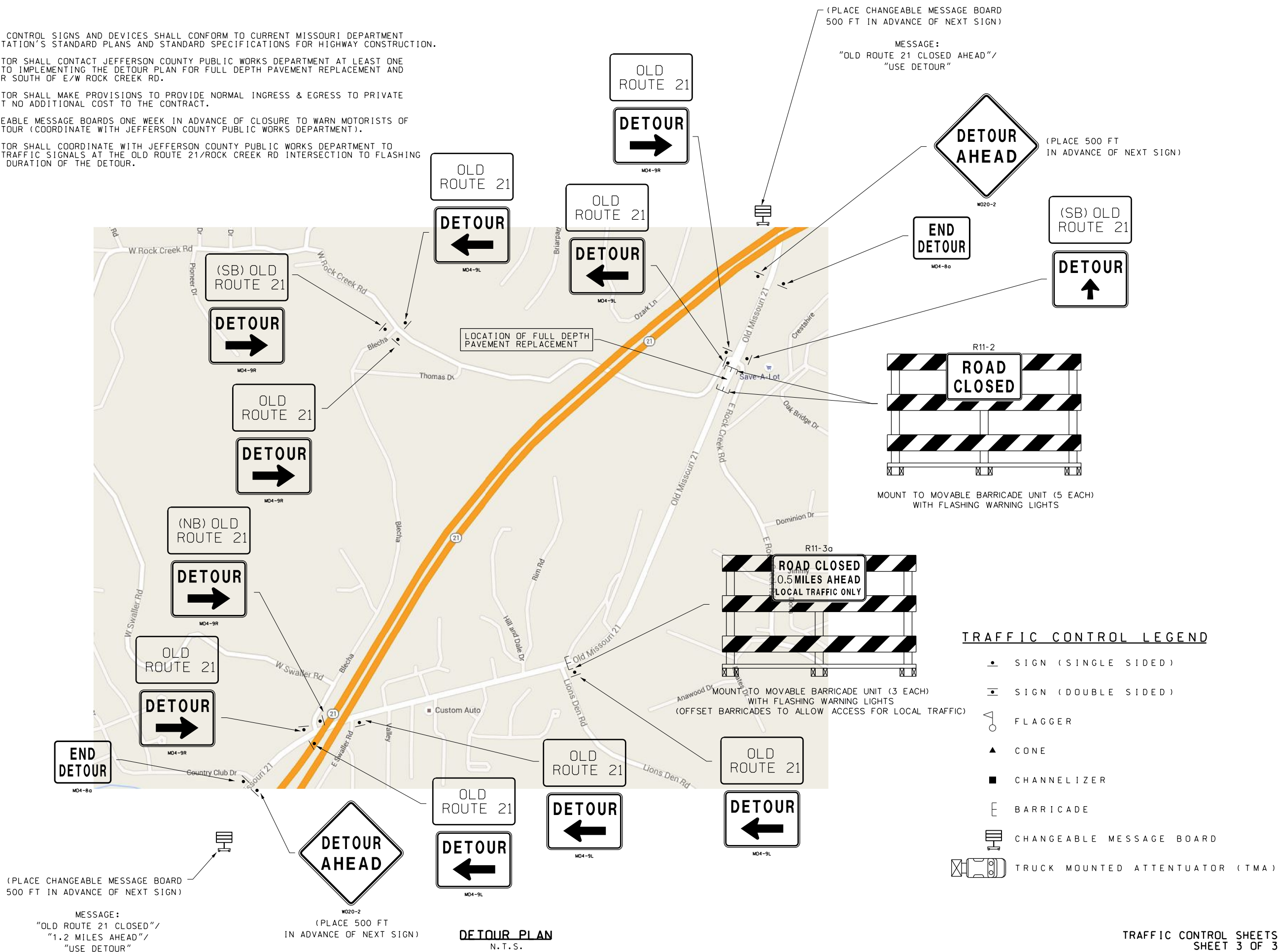
P.O. BOX 100
HILLSBORO, MO 63050
(636-797-5340)
www.jeffco.org



JACOBS

JACOBS ENGINEERING GROUP
501 NORTH BROADWAY
ST. LOUIS, MO 63102
PHONE 314.785.0000
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 CONTACT JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT AT LEAST ONE WEEK PRIOR TO IMPLEMENTING THE DETOUR PLAN FOR FULL DEPTH PAVEMENT REPLACEMENT AND JOINT REPAIR SOUTH OF E/W ROCK CREEK RD.
3. THE CONTRACTOR SHALL MAKE PROVISIONS TO PROVIDE NORMAL INGRESS & EGRESS TO PRIVATE ENTRANCES AT NO ADDITIONAL COST TO THE CONTRACT.
4. PLACE CHANGEABLE MESSAGE BOARDS ONE WEEK IN ADVANCE OF CLOSURE TO WARN MOTORISTS OF UPCOMING DETOUR (COORDINATE WITH JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT).
5. THE CONTRACTOR SHALL COORDINATE WITH JEFFERSON COUNTY PUBLIC WORKS DEPARTMENT TO ADJUST THE TRAFFIC SIGNALS AT THE OLD ROUTE 21/ROCK CREEK RD INTERSECTION TO FLASHING RED FOR THE DURATION OF THE DETOUR.

[illegible]