MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

DESIGN DESIGNATION

A.A.D.T. - 2009 = 36,470
A.A.D.T. - 2029 = 64,600
D.H.V. = 8%
T = 16%
V = 70 M.P.H.

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

(NO NEW R/W REQUIRED)

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	—FO—	—FO—
OVERHEAD TELEPHONE	—O—	—●—
UNDERGROUND TELEPHONE	—T—	—T—
OVERHEAD POWER	—□—	—■—
UNDERGROUND POWER	—P—	—P—
GAS	—G—	—G—
WATER	—W—	—W—
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	—V—	
WOVEN WIRE	—X—	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	001
TYPICAL SECTIONS (TS) (4 SHEETS)	002
QUANTITIES (QU) (5 SHEETS)	003
PLAN-PROFILE (PP)	004-012
RIGHT OF WAY (RW)	—
REFERENCE POINTS (RP)	—
COORDINATE POINTS (CP)	—
SPECIAL SHEETS (SS)	—
TRAFFIC CONTROL SHEETS (TC)	013-022
EROSION CONTROL SHEETS (EC)	—
LIGHTING (LT)	—
SIGNALS (SG)	—
SIGNING (SN)	—
PAVEMENT MARKING (PM)	023-028
CULVERT SECTIONS (CS)	—
BRIDGE DRAWINGS (B)	
A####	XX-XX
A####	XX-XX
A####	XX-XX
A####	XX-XX
CROSS SECTIONS (XS)	XX-XX

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA.	0 + 03.04
END OF PROJECT	STA.	191 + 25.79
APPARENT LENGTH		19122.75 FEET

EQUATIONS

EO. 326+72.90 BK.= 326+72.00 AH.(EBL)	0.90 FEET
EO. 397+31.25 BK.= 397+40.00 AH.(EBL)	- 8.75 FEET
EO. 650+53.90 BK.= 688+89.90 AH.(EBL)	-3836.00 FEET
EO. 803+13.80 BK.= 808+11.20 AH.(EBL)	-497.40 FEET
EO. 933+85.10 BK.= 932+61.00 AH.(EBL)	124.10 FEET
EO.1184+73.00 BK.= 3+00.00 AH.(EBL)	118173.00 FEET
EO. 32+34.38 BK.= 32+32.93 AH.(EBL)	1.45 FEET
EO. 141+36.93 BK.= 141+03.33 AH.(EBL)	33.60 FEET

BRIDGE EXCEPTIONS

STA. 819+03.03 TO 822+42.70	-339.67 FEET
STA. 857+68.60 TO 859+20.60	-152.00 FEET
STA. 1142+25.92 TO 1144+38.86	-212.94 FEET
STA. 1176+63.80 TO 1179+99.37	-335.57 FEET

EXCEPTION

STA. 72+47.59 TO 75+00.00	-252.41 FEET

TOTAL CORRECTIONS	112698.31 FEET
NET LENGTH OF PROJECT	131821.06 FEET
STATE LENGTH	24.97 MILES

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	001

COUNTY JOHNSON
JOB NO. J4P1973B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

Contract I.D. 090320-403

SECTION ON TANGENT

STA. 286+00.00 TO 819+03.03
STA. 822+42.70 TO 857+68.60
STA. 859+20.60 to 1142+25.92
STA. 1144+38.86 TO 1176+63.80
STA. 1179+99.37 TO 1184+73.00 BK.
STA. 3+00.00 AH. TO 191+25.00

STABILIZED SHOULDER DETAIL
(INSIDE SHOULDER)

STABILIZED SHOULDER DETAIL
(OUTSIDE SHOULDER)

SECTION ON SUPERELEVATED CURVE
(WHERE APPLICABLE)

TYPICAL SECTIONS
(ROUTE US 50)
SHEET 1 OF 4

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/26/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	002
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

SECTION ON TANGENT

STA. 286+00.00 TO 819+03.03
STA. 822+42.70 TO 857+68.60
STA. 859+20.60 to 1142+25.92
STA. 1144+38.86 TO 1176+63.80
STA. 1179+99.37 TO 1184+73.00 BK.
STA. 3+00.00 AH. TO 191+25.00

STABILIZED SHOULDER DETAIL
(INSIDE SHOULDER)

STABILIZED SHOULDER DETAIL
(OUTSIDE SHOULDER)

SECTION ON SUPERELEVATED CURVE
(WHERE APPLICABLE)

ASPHALT BINDER

ASPHALT CONCRETE MIXTURE PG 70-22(SP125C MIX)
BITUMINOUS PAVEMENT MIXTURE PG 64-22(BP-1 MIX)

TYPICAL SECTIONS
(ROUTE US 50)

SHEET 1 OF 4

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	2/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	002
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

SECTION ON TANGENT
RIGHT TURN LANE - AT MO 58

EASTBOUND US 50

STA. 958+48.10 TO 961+98.10 (RIGHT TURN LANE)
STA. 963+60.00 TO 973+90.14 (ACCELLERATION LANE)

SECTION ON TANGENT
TAPERS - AT MO 58

EASTBOUND US 50

STA. 955+98.10 TO 958+48.10 (TAPERS FROM 0' TO 12')
STA. 973+90.14 TO 974+90.14 (TAPERS FROM 12' TO 0')

TYPICAL SECTIONS
(US 50 AT MO 58)

SHEET 2 OF 4

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER
PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/26/2009

ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	002

COUNTY: JOHNSON

JOB NO.: J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

SECTION ON TANGENT
DECELERATION LANE AT PCA ROAD

EASTBOUND US 50

STA. 103+01.13 TO 106+62.02 (12' LANE)
STA. 100+55.06 TO 103+01.13 (TAPERS FROM 0' TO 12')

SECTION ON TANGENT
RIGHT TURN LANE AT BUSINESS 50

EASTBOUND US 50

STA. 8+32.50 TO 10+83.23 (TAPERS FROM 0' TO 12')

TYPICAL SECTIONS
ACCEL/DECEL LANES

SHEET 3 OF 4

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER
PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
1/26/2009	
ROUTE: US50	STATE: MO
DISTRICT: 4	SHEET NO.: 002
COUNTY: JOHNSON	
JOB NO.: J4P1973B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

RAMP SECTION ON TANGENT

STA. 64+13.96 TO 66+45.00 (S.W. RAMP AT ROUTE 13)
STA. 82+02.50 TO 83+87.72 (S.E. RAMP AT ROUTE 13)
STA. 0+00.00 TO 3+62.08 (RAMP 2 AT PCA ROAD)
STA. 10+61.75 TO 12+15.42 (RAMP AT WEST LOOP)

SECTION ON TANGENT
LEFT TURN LANE - AT ROUTE 58

EASTBOUND 50

STA. 954+81.00 TO 955+31.00 (TAPERS FROM 0' TO 12')
STA. 955+31.00 TO 955+98.10 (LEFT TURN LANE AT MO 58)

TYPICAL SECTIONS
(RAMPS)

SHEET 4 OF 4

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	002
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

RAMP SECTION ON TANGENT

STA. 64+13.96 TO 66+45.00 (S.W. RAMP AT ROUTE 13)
STA. 82+02.50 TO 83+87.72 (S.E. RAMP AT ROUTE 13)
STA. 0+00.00 TO 3+62.08 (RAMP 2 AT PCA ROAD)
STA. 10+61.75 TO 12+15.42 (RAMP AT WEST LOOP)

SECTION ON TANGENT
LEFT TURN LANE - AT ROUTE 58

EASTBOUND 50

STA. 954+81.00 TO 955+31.00 (TAPERS FROM 0' TO 12')
STA. 955+31.00 TO 955+98.10 (LEFT TURN LANE AT MO 58)

TYPICAL SECTIONS
(RAMPS)

SHEET 4 OF 4

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER
PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
2/9/2009

ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	002

COUNTY
JOHNSON

JOB NO.
J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV. SEPT. 8. 97

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

ASPHALT/COLDMILLING QUANTITIES

STATION	STATION	LOCATION	DESCRIPTION	1-3/4 " SP125C ASPHALT MIX TONS	1" SP125C ASPHALT MIX TONS	2-3/4" BP-1 ASPHALT MIX TONS	TACK GAL.	REMARKS
MAINLINE ROUTE 50								
286+00.00	650+53.90 BK.	EASTBOUND 50	2-12' LANES	9371	5354	6109	7696	
286+00.00	650+53.90 BK.	EASTBOUND 50	CROSSOVERS			215	187	(12 CROSSOVERS)
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	2-12' LANES	2937	1678	1914	2418	
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	CROSSOVERS			72	62	(4 CROSSOVERS)
808+11.20	819+03.03	EASTBOUND 50	2-12' LANES	281	160	183	231	
808+11.20	819+03.03	EASTBOUND 50	CROSSOVERS			72	62	(4 CROSSOVERS)
822+42.70	857+68.60	EASTBOUND 50	2-12' LANES	906	518	591	744	
822+42.70	857+68.60	EASTBOUND 50	CROSSOVERS			18	16	(1 CROSSOVER)
859+20.60	933+85.10 BK.	EASTBOUND 50	2-12' LANES	1919	1096	1251	1576	
859+20.60	933+85.10 BK.	EASTBOUND 50	CROSSOVERS			36	31	(2 CROSSOVERS)
932+61.10 AH.	1142+25.92	EASTBOUND 50	2-12' LANES	5389	3079	3513	4426	
932+61.10 AH.	1142+25.92	EASTBOUND 50	CROSSOVERS			215	187	(12 CROSSOVERS)
7+16.37	7+66.59	@ ROUTE 58	DEPTH TRANS			10	9	
7+02.96	7+52.96	@ ROUTE 58	DEPTH TRANS			16	14	
1418+50.00	1419+00.00	@ ROUTE 58	DEPTH TRANS			18	16	
1416+73.05	1418+13.05	@ ROUTE 58	DEPTH TRANS			46	40	
1144+38.86	1176+63.80	EASTBOUND 50	2-12' LANES	829	474	540	681	
1144+38.86	1176+63.80	EASTBOUND 50	CROSSOVERS			36	31	(2 CROSSOVER)
1179+99.37	1184+73.00 BK.	EASTBOUND 50	2-12' LANES	122	70	38	100	
3+00.00 AH.	72+47.59	EASTBOUND 50	2-12' LANES	1786	1020	1159	1467	
75+00.00	141+36.93 BK.	EASTBOUND 50	2-12' LANES	1706	975	1112	1401	
75+00.00	141+36.93 BK.	EASTBOUND 50	CROSSOVERS			45	23	(2 CROSSOVER)
141+03.33 AH.	191+25.79	EASTBOUND 50	2-12' LANES	1291	737	842	1060	(3 CROSSOVER)
12+68.20	13+82.20	@ WEST LOOP	DEPTH TRANS			27	23	
1323+10.20	1324+14.20	@ EAST LOOP	DEPTH TRANS			18	23	
RIGHT /LEFT TURN LANES								
61+73.96	64+85.00	@ ROUTE 13	TAPER	37	21		19	
83+87.72	87+87.72	@ ROUTE 13	ACCELL LANE	94	53		48	
87+87.27	90+37.72	@ ROUTE 13	TAPER	24	14		13	
954+81.00	955+31.00	@ ROUTE 58	TAPER	4	2		2	
955+31.00	956+31.00	@ ROUTE 58	LT. TURN LANE	17	10		9	
955+98.10	958+48.10	@ ROUTE 58	TAPER	29	17		31	
958+48.10	961+98.10	@ ROUTE 58	DECEL LANE	82	47		43	
963+60.00	973+90.14	@ ROUTE 58	ACCELL LANE	243	137		126	
973+90.14	974+90.14	@ ROUTE 58	TAPER	24	7		6	
100+55.06	103+01.13	@ PCA ROAD	TAPER	17	10		9	
103+01.13	110+11.13	@ PCA ROAD	DECEL LANE	137	77		71	
8+32.50	10+61.75	@ WEST LOOP	TAPER	36	20		18	
RAMPS								
64+13.96	66+45.00	@ ROUTE 13	SW RAMP	45	25	33	38	
82+02.50	83+87.72	@ ROUTE 13	SE RAMP	36	20	27	31	
0+00.00	3+62.08	@ PCA ROAD	RAMP 1	70	39	52	40	
10+61.75	12+65.42	@ WEST LOOP	RAMP	39	22	29	34	
				27471	15682			
			TOTALS	43153		18237	23062	

NOTE: BRIDGES EXCEPTED FROM RESURFACING
SEE PLAN SHEETS FOR DETAILS.

(FOR INFORMATIONAL PURPOSES ONLY)

BITUMINOUS PAVEMENT ESTIMATE FACTORS

SP125C ASPHALT MIX = 1.983 TONS/C.Y.
BP-1 ASPHALT MIX = 2.069 TONS/C.Y.
TACK COAT = 0.05 GAL/S.Y.

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/26/2009

ROUTE	STATE
US50	MO
DISTRICT 4	SHEET NO. 003

COUNTY: JOHNSON
JOB NO.: J4P1973B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV. SEPT. 8. 97

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

ASPHALT/COLDMILLING QUANTITIES

STATION	STATION	LOCATION	DESCRIPTION	1-3/4 " SP125C ASPHALT MIX TONS	1" SP125C ASPHALT MIX TONS	BP-1 ASPHALT MIX TONS	TACK GAL.	REMARKS
MAINLINE ROUTE 50								
286+00.00	650+53.90 BK.	EASTBOUND 50	2-12' LANES	9371	5354	6109	7696	
286+00.00	650+53.90 BK.	EASTBOUND 50	CROSSOVERS			215	187	(12 CROSSOVERS)
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	2-12' LANES	2937	1678	1914	2418	
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	CROSSOVERS			72	62	(4 CROSSOVERS)
808+11.20	819+03.03	EASTBOUND 50	2-12' LANES	281	160	183	231	
808+11.20	819+03.03	EASTBOUND 50	CROSSOVERS			72	62	(4 CROSSOVERS)
822+42.70	857+68.60	EASTBOUND 50	2-12' LANES	906	518	591	744	
822+42.70	857+68.60	EASTBOUND 50	CROSSOVERS			18	16	(1 CROSSOVER)
859+20.60	933+85.10 BK.	EASTBOUND 50	2-12' LANES	1919	1096	1251	1576	
859+20.60	933+85.10 BK.	EASTBOUND 50	CROSSOVERS			36	31	(2 CROSSOVERS)
932+61.10 AH.	1142+25.92	EASTBOUND 50	2-12' LANES	5389	3079	3513	4426	
932+61.10 AH.	1142+25.92	EASTBOUND 50	CROSSOVERS			215	187	(12 CROSSOVERS)
7+16.37	7+66.59	@ ROUTE 58	DEPTH TRANS			10	9	
7+02.96	7+52.96	@ ROUTE 58	DEPTH TRANS			16	14	
1418+50.00	1419+00.00	@ ROUTE 58	DEPTH TRANS			18	16	
1416+73.05	1418+13.05	@ ROUTE 58	DEPTH TRANS			46	40	
1144+38.86	1176+63.80	EASTBOUND 50	2-12' LANES	829	474	540	681	
1144+38.86	1176+63.80	EASTBOUND 50	CROSSOVERS			36	31	(2 CROSSOVER)
1179+99.37	1184+73.00 BK.	EASTBOUND 50	2-12' LANES	122	70	38	100	
3+00.00 AH.	72+47.59	EASTBOUND 50	2-12' LANES	1786	1020	1159	1467	
75+00.00	141+36.93 BK.	EASTBOUND 50	2-12' LANES	1706	975	1112	1401	
75+00.00	141+36.93 BK.	EASTBOUND 50	CROSSOVERS			45	23	(2 CROSSOVER)
141+03.33 AH.	191+25.79	EASTBOUND 50	2-12' LANES	1291	737	842	1060	(3 CROSSOVER)
12+68.20	13+82.20	@ WEST LOOP	DEPTH TRANS			27	23	
1323+10.20	1324+14.20	@ EAST LOOP	DEPTH TRANS			18	23	
RIGHT /LEFT TURN LANES								
61+73.96	64+85.00	@ ROUTE 13	TAPER	37	21		19	
83+87.72	87+87.72	@ ROUTE 13	ACCELL LANE	94	53		48	
87+87.27	90+37.72	@ ROUTE 13	TAPER	24	14		13	
954+81.00	955+31.00	@ ROUTE 58	TAPER	4	2		2	
955+31.00	956+31.00	@ ROUTE 58	LT.TURN LANE	17	10		9	
955+98.10	958+48.10	@ ROUTE 58	TAPER	29	17		31	
958+48.10	961+98.10	@ ROUTE 58	DECEL LANE	82	47		43	
963+60.00	973+90.14	@ ROUTE 58	ACCELL LANE	243	137		126	
973+90.14	974+90.14	@ ROUTE 58	TAPER	24	7		6	
100+55.06	103+01.13	@ PCA ROAD	TAPER	17	10		9	
103+01.13	110+11.13	@ PCA ROAD	DECEL LANE	137	77		71	
8+32.50	10+61.75	@ WEST LOOP	TAPER	36	20		18	
RAMPS								
64+13.96	66+45.00	@ ROUTE 13	SW RAMP	45	25	33	38	
82+02.50	83+87.72	@ ROUTE 13	SE RAMP	36	20	27	31	
0+00.00	3+62.08	@ PCA ROAD	RAMP 1	70	39	52	40	
10+61.75	12+65.42	@ WEST LOOP	RAMP	39	22	29	34	
				27471	15682			
			TOTALS	43153		18237	23062	

NOTE: BRIDGES EXCEPTED FROM RESURFACING
SEE PLAN SHEETS FOR DETAILS.

(FOR INFORMATIONAL PURPOSES ONLY)

BITUMINOUS PAVEMENT ESTIMATE FACTORS

SP125C ASPHALT MIX = 1.983 TONS/C.Y.
BP-1 ASPHALT MIX = 2.069 TONS/C.Y.
TACK COAT = 0.05 GAL/S.Y.

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/9/2009

ROUTE	STATE
US50	MO
DISTRICT 4	SHEET NO. 003

COUNTY JOHNSON
JOB NO. J4P1973B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV. SEPT. 8. 97

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVEMENT REPAIR (FULL DEPTH)

LOG MILE	LOCATION	LANE	LENGTH	WIDTH	FULL DEPTH PAVEMENT REPAIR (SQ. YD.)	VERT SAW CUTS L.F.	TIE BARS EACH	MIN. AGGR. S.Y.	SUBGRADE COMPACTION S.Y.
28.93	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
29.02	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
29.45	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
29.76	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
29.89	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
30.33	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
31.22	E.B.L. RTE. 50	1	6	12	8	30	20	0.8	0.8
31.41	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
31.71	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
31.72	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
32.11	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
32.93	E.B.L. RTE. 50	1	6	12	8	30	20	0.8	0.8
32.94	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
33.21	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
33.41	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
33.47	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
33.51	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
33.64	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
33.65	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
33.83	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
33.84	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
33.92	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
34.17	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
34.20	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
35.10	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
35.17	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
35.82	E.B.L. RTE. 50	2	8	12	11	32	20	1.1	1.1
35.99	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.01	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.12	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
36.31	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.48	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.50	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
36.64	E.B.L. RTE. 50	1	6	12	8	30	20	0.8	0.8
36.64	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.66	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.83	E.B.L. RTE. 50	2	8	12	11	32	20	1.1	1.1
36.85	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
37.07	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
37.08	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
37.12	E.B.L. RTE. 50	2	8	12	11	32	20	1.1	1.1
37.13	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
37.44	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
37.58	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
38.10	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
38.72	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
39.06	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
39.47	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
39.70	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
40.01	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
40.02	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
45.14	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
45.19	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
45.35	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
51.12	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
51.15	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
51.23	E.B.L. RTE. 50	2	8	12	11	32	20	1.1	1.1
51.27	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.28	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.36	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8

PAVEMENT REPAIR (FULL DEPTH)

LOG MILE	LOCATION	LANE	LENGTH	WIDTH	FULL DEPTH PAVEMENT REPAIR (SQ. YD.)	VERT SAW CUTS L.F.	TIE BARS EACH	MIN. AGGR. S.Y.	SUBGRADE COMPACTION S.Y.
51.48	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.50	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
51.51	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.88	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.95	E.B.L. RTE. 50	2	20	12	27	56	30	2.7	2.7
52.08	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
52.24	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
				SUBTOTALS	789	2644	1830	78.9	78.9
		ADDITIONAL REPAIR QUANTITIES *			197	661	457	19.7	19.7
				TOTALS	986	3305	2287	98.6	98.6

* ADDITIONAL REPAIR QUANTITIES ESTIMATED AT 25% OF LOGGED PAVEMENT REPAIR QUANTITIES.

CLASS B PARTIAL DEPTH PAVEMENT REPAIR

LOG MILE	LOCATION	LENGTH	WIDTH	PARTIAL DEPTH REMOVAL (SQ. YD.)	FURNISHING AND PLACING (TON)
EASTBOUND ROUTE 50					
32.54	E.B.L. RTE. 50	4	12	5.3	1.3
33.50	E.B.L. RTE. 50	4	12	5.3	1.3
33.95	E.B.L. RTE. 50	4	12	5.3	1.3
34.58	E.B.L. RTE. 50	4	12	5.3	1.3
34.72	E.B.L. RTE. 50	4	12	5.3	1.3
35.09	E.B.L. RTE. 50	4	12	5.3	1.3
37.06	E.B.L. RTE. 50	6	12	8.0	2.0
37.57	E.B.L. RTE. 50	6	12	8.0	2.0
39.00	E.B.L. RTE. 50	4	12	5.3	1.3
39.46	E.B.L. RTE. 50	4	12	5.3	1.3
39.98	E.B.L. RTE. 50	4	6	2.7	0.7
39.99	E.B.L. RTE. 50	4	6	2.7	0.7
48.75	E.B.L. RTE. 50	6	12	8.0	2.0
		SUBTOTALS		71.8	17.8
	ADDITIONAL REPAIR QUANTITIES *			17.9	4.5
		TOTALS		89.7	22.3

* ADDITIONAL REPAIR QUANTITIES ESTIMATED AT 25% OF LOGGED PAVEMENT REPAIR QUANTITIES.

NOTE: SUBGRADE COMPACTION ESTIMATED AT 10% OF FULL DEPTH PAVEMENT REPAIR.
TYPE 5 AGGREGATE FOR BASE ESTIMATED AT 10% OF FULL DEPTH PAVEMENT REPAIR.

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 1/26/2009

ROUTE	STATE
US50	MO
DISTRICT: 4	SHEET NO.: 003

COUNTY: JOHNSON
JOB NO.: J4P1973B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV. SEPT. 8. 97

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVEMENT REPAIR (FULL DEPTH)

LOG MILE	LOCATION	LANE	LENGTH	WIDTH	FULL DEPTH PAVEMENT REPAIR (SQ. YD.)	VERT SAW CUTS L.F.	TIE BARS EACH	MIN. AGGR. S.Y.	SUBGRADE COMPACTION S.Y.
28.93	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
29.02	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
29.45	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
29.76	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
29.89	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
30.33	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
31.22	E.B.L. RTE. 50	1	6	12	8	30	20	0.8	0.8
31.41	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
31.71	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
31.72	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
32.11	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
32.93	E.B.L. RTE. 50	1	6	12	8	30	20	0.8	0.8
32.94	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
33.21	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
33.41	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
33.47	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
33.51	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
33.64	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
33.65	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
33.83	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
33.84	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
33.92	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
34.17	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
34.20	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
35.10	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
35.17	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
35.82	E.B.L. RTE. 50	2	8	12	11	32	20	1.1	1.1
35.99	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.01	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.12	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
36.31	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.48	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.50	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
36.64	E.B.L. RTE. 50	1	6	12	8	30	20	0.8	0.8
36.64	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.66	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
36.83	E.B.L. RTE. 50	2	8	12	11	32	20	1.1	1.1
36.85	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
37.07	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
37.08	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
37.12	E.B.L. RTE. 50	2	8	12	11	32	20	1.1	1.1
37.13	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
37.44	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
37.58	E.B.L. RTE. 50	2	10	12	13	34	20	1.3	1.3
38.10	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
38.72	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
39.06	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
39.47	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
39.70	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
40.01	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
40.02	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
45.14	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
45.19	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
45.35	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
51.12	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
51.15	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
51.23	E.B.L. RTE. 50	2	8	12	11	32	20	1.1	1.1
51.27	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.28	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.36	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8

PAVEMENT REPAIR (FULL DEPTH)

LOG MILE	LOCATION	LANE	LENGTH	WIDTH	FULL DEPTH PAVEMENT REPAIR (SQ. YD.)	VERT SAW CUTS L.F.	DOWEL BARS EACH	MIN. AGGR. S.Y.	SUBGRADE COMPACTION S.Y.
51.48	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.50	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
51.51	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.88	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
51.95	E.B.L. RTE. 50	2	20	12	27	56	30	2.7	2.7
52.08	E.B.L. RTE. 50	1.2	6	24	16	54	40	1.6	1.6
52.24	E.B.L. RTE. 50	2	6	12	8	30	20	0.8	0.8
				SUBTOTALS	789	2644	1830	78.9	78.9
		ADDITIONAL REPAIR QUANTITIES *			197	661	457	19.7	19.7
				TOTALS	986	3305	2287	98.6	98.6

* ADDITIONAL REPAIR QUANTITIES ESTIMATED AT 25% OF LOGGED PAVEMENT REPAIR QUANTITIES.

CLASS B PARTIAL DEPTH PAVEMENT REPAIR

LOG MILE	LOCATION	LENGTH	WIDTH	PARTIAL DEPTH REMOVAL (SQ. YD.)	FURNISHING AND PLACING (TON)
EASTBOUND ROUTE 50					
32.54	E.B.L. RTE. 50	4	12	5.3	1.3
33.50	E.B.L. RTE. 50	4	12	5.3	1.3
33.95	E.B.L. RTE. 50	4	12	5.3	1.3
34.58	E.B.L. RTE. 50	4	12	5.3	1.3
34.72	E.B.L. RTE. 50	4	12	5.3	1.3
35.09	E.B.L. RTE. 50	4	12	5.3	1.3
37.06	E.B.L. RTE. 50	6	12	8.0	2.0
37.57	E.B.L. RTE. 50	6	12	8.0	2.0
39.00	E.B.L. RTE. 50	4	12	5.3	1.3
39.46	E.B.L. RTE. 50	4	12	5.3	1.3
39.98	E.B.L. RTE. 50	4	6	2.7	0.7
39.99	E.B.L. RTE. 50	4	6	2.7	0.7
48.75	E.B.L. RTE. 50	6	12	8.0	2.0
	SUBTOTALS			71.8	17.8
	ADDITIONAL REPAIR QUANTITIES *			17.9	4.5
	TOTALS			89.7	22.3

* ADDITIONAL REPAIR QUANTITIES ESTIMATED AT 25% OF LOGGED PAVEMENT REPAIR QUANTITIES.

NOTE: SUBGRADE COMPACTION ESTIMATED AT 10% OF FULL DEPTH PAVEMENT REPAIR.
TYPE 5 AGGREGATE FOR BASE ESTIMATED AT 10% OF FULL DEPTH PAVEMENT REPAIR.

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/9/2009

ROUTE	STATE
US50	MO
DISTRICT 4	SHEET NO. 003

COUNTY JOHNSON
JOB NO. J4P1973B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV. SEPT. 8. 97

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

BITUMINOUS SHOULDER RUMBLE STRIPS

STATION	STATION	LOCATION	INSIDE SHOULDER STA.	OUTSIDE SHOULDER STA.	REMARKS
MAINLINE ROUTE 50					
286+00.00	650+53.90 BK.	EASTBOUND 50	340	340	OMISSIONS MADE FOR 12 SIDE ROADS/CROSSOVERS
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	106	106	OMISSIONS MADE FOR 4 SIDE ROADS/CROSSOVERS
808+40.00	825+20.00	EASTBOUND 50	9	9	OMISSIONS MADE FOR 4 SIDE ROADS/CROSSOVERS
828+42.70	857+88.30	EASTBOUND 50	28	28	OMISSIONS MADE FOR 1 SIDE ROADS/CROSSOVERS
859+42.80	933+85.10 BK.	EASTBOUND 50	70	70	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
932+61.00 AH.	1143+25.92	EASTBOUND 50	186	186	OMISSIONS MADE FOR 12 SIDE ROADS/CROSSOVERS
1145+14.08	1176+82.80	EASTBOUND 50	28	28	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
1179+93.00	1184+73.00 BK.	EASTBOUND 50	5	5	
3+00.00 AH.	72+47.59	EASTBOUND 50	69	69	OMISSIONS MADE FOR 3 SIDE ROADS/CROSSOVERS
75+00.00	141+36.93 BK.	EASTBOUND 50	66	66	
141+03.33 AH.	191+25.79	EASTBOUND 50	46	46	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
			953	953	
		TOTAL	1906		

PAVEMENT EDGE TREATMENT

STATION	STATION	LOCATION	EDGE TREATMENT SHOULDER LIN. FT.	REMARKS
MAINLINE ROUTE 50				
286+00.00	650+53.90 BK.	EASTBOUND 50	36454	
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	11424	OMISSIONS MADE FOR 12 SIDE ROADS/CROSSOVERS
808+40.00	825+20.00	EASTBOUND 50	1680	OMISSIONS MADE FOR 4 SIDE ROADS/CROSSOVERS
828+42.70	857+88.30	EASTBOUND 50	2946	OMISSIONS MADE FOR 4 SIDE ROADS/CROSSOVERS
859+42.80	933+85.10 BK.	EASTBOUND 50	7442	OMISSIONS MADE FOR 1 SIDE ROADS/CROSSOVERS
932+61.00 AH.	1143+25.92	EASTBOUND 50	21065	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
1145+14.08	1176+82.80	EASTBOUND 50	3169	OMISSIONS MADE FOR 12 SIDE ROADS/CROSSOVERS
1179+93.00	1184+73.00 BK.	EASTBOUND 50	5	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
3+00.00 AH.	72+47.59	EASTBOUND 50	6948	OMISSIONS MADE FOR 3 SIDE ROADS/CROSSOVERS
75+00.00	141+36.93 BK.	EASTBOUND 50	6637	
141+03.33 AH.	191+25.79	EASTBOUND 50	5022	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
		TOTALS	102792	

BITUMINOUS SHOULDER REPAIR/LEVELING

	BITUMINOUS PAVEMENT MIXTURE SURFACE LEVELING SQ.YD.	REMARKS
ESTIMATED	7040	DAMAGED RUMBLE STRIP AREAS
ESTIMATED	555	DAMAGED SHOULDER AREAS
TOTAL	7595	

BITUMINOUS PAVEMENT CRACK SEALING

	CRACK SEALANT LIN.FT.	REMARKS
ESTIMATED	12240	INCLUDES PAVEMENT AND SHOULDER AREAS

MODIFIED COLDMILLING (DEPTH TRANSITION)

SHEET	STATION	STATION	LOCATION	BITUMINOUS COLDMILLING SQ. YD.	REMARKS
005	286+00.00	287+40.00	BEGIN JOB (EBL)	591	EASTBOUND LANE
006	817+63.30	819+03.30	W/O BRIDGE A1175	591	EASTBOUND LANE
006	822+42.90	823+82.90	E/O BRIDGE A1175	591	EASTBOUND LANE
006	856+28.60	857+68.60	W/O BRIDGE A1176	591	EASTBOUND LANE
006	859+20.60	860+60.60	E/O BRIDGE A1176	591	EASTBOUND LANE
006	1140+85.92	1142+25.92	W/O BRIDGE G954	591	EASTBOUND LANE
006	1144+38.86	1145+78.86	E/O BRIDGE G954	591	EASTBOUND LANE
006	1175+23.80	1176+63.80	W/O BRIDGE G955	591	EASTBOUND LANE
006	1175+23.80	1176+63.80	W/O BRIDGE G955	591	EASTBOUND LANE
007	VARIOUS	VARIOUS	SIDE ROADS (42)	6476	OUTSIDE SHOULDER
007	VARIOUS	VARIOUS	CROSSOVERS (42)	9341	INSIDE SHOULDER
008	1+20.20	2+60.20	AT ROUTE 131	231	OUTSIDE SHOULDER
008	0+46.20	0+96.20	AT ROUTE 131	130	INSIDE SHOULDER
009	1+53.99	2+93.99	AT ROUTE 58	274	EB OFF RAMP
009	7+16.37	7+66.59	AT ROUTE 58	98	EB OFF RAMP
009	1418+50.00	1419+0.00	AT ROUTE 58	171	CROSSOVER
009	7+02.96	7+52.96	AT ROUTE 58	102	WB OFF RAMP
009	1416+73.05	1418+13.05	AT ROUTE 58	1042	
010	3+62.08	5+02.08	AT PCA ROAD	476	RAMP 2
011	12+15.42	12+65.42	AT WEST LOOP	105	RAMP
011	12+68.20	12+94.20	AT WEST LOOP	116	CROSSOVER
011	13+32.20	13+82.20	AT WEST LOOP	251	RAMP
011	1323+98.20	1324+14.20	AT EAST LOOP	94	CROSSOVER
011	1323+10.20	1323+60.70	AT EAST LOOP	188	
012	66+45.00	67+85.00	AT ROUTE 13	312	SW RAMP
012	71+07.59	72+47.59	AT ROUTE 13	591	UNDER RTE.13 BRIDGE
012	75+00.00	76+40.00	AT ROUTE 13	591	UNDER RTE.13 BRIDGE
012	80+62.50	82+02.50	AT ROUTE 13	283	SE RAMP
			TOTAL	26191	

WORK ZONE LIGHTING

1 - LUMP SUM

MOBILIZATION

1 - LUMP SUM

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
1/9/2009	
ROUTE US50	STATE MO
DISTRICT 4	SHEET NO. 003
COUNTY JOHNSON	
JOB NO. J4P1973B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV. SEPT. 8. 97

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

BITUMINOUS SHOULDER RUMBLE STRIPS

STATION	STATION	LOCATION	INSIDE SHOULDER STA.	OUTSIDE SHOULDER STA.	REMARKS
MAINLINE ROUTE 50					
286+00.00	650+53.90 BK.	EASTBOUND 50	340	340	OMISSIONS MADE FOR 12 SIDE ROADS/CROSSOVERS
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	106	106	OMISSIONS MADE FOR 4 SIDE ROADS/CROSSOVERS
808+40.00	825+20.00	EASTBOUND 50	9	9	OMISSIONS MADE FOR 4 SIDE ROADS/CROSSOVERS
828+42.70	857+88.30	EASTBOUND 50	28	28	OMISSIONS MADE FOR 1 SIDE ROADS/CROSSOVERS
859+42.80	933+85.10 BK.	EASTBOUND 50	70	70	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
932+61.00 AH.	1143+25.92	EASTBOUND 50	186	186	OMISSIONS MADE FOR 12 SIDE ROADS/CROSSOVERS
1145+14.08	1176+82.80	EASTBOUND 50	28	28	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
1179+93.00	1184+73.00 BK.	EASTBOUND 50	5	5	
3+00.00 AH.	72+47.59	EASTBOUND 50	69	69	OMISSIONS MADE FOR 3 SIDE ROADS/CROSSOVERS
75+00.00	141+36.93 BK.	EASTBOUND 50	66	66	
141+03.33 AH.	191+25.79	EASTBOUND 50	46	46	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
			953	953	
		TOTAL	1906		

PAVEMENT EDGE TREATMENT

STATION	STATION	LOCATION	EDGE TREATMENT SHOULDER LIN. FT.	REMARKS
MAINLINE ROUTE 50				
286+00.00	650+53.90 BK.	EASTBOUND 50	36454	
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	11424	OMISSIONS MADE FOR 12 SIDE ROADS/CROSSOVERS
808+40.00	825+20.00	EASTBOUND 50	1680	OMISSIONS MADE FOR 4 SIDE ROADS/CROSSOVERS
828+42.70	857+88.30	EASTBOUND 50	2946	OMISSIONS MADE FOR 4 SIDE ROADS/CROSSOVERS
859+42.80	933+85.10 BK.	EASTBOUND 50	7442	OMISSIONS MADE FOR 1 SIDE ROADS/CROSSOVERS
932+61.00 AH.	1143+25.92	EASTBOUND 50	21065	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
1145+14.08	1176+82.80	EASTBOUND 50	3169	OMISSIONS MADE FOR 12 SIDE ROADS/CROSSOVERS
1179+93.00	1184+73.00 BK.	EASTBOUND 50	5	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
3+00.00 AH.	72+47.59	EASTBOUND 50	6948	OMISSIONS MADE FOR 3 SIDE ROADS/CROSSOVERS
75+00.00	141+36.93 BK.	EASTBOUND 50	6637	
141+03.33 AH.	191+25.79	EASTBOUND 50	5022	OMISSIONS MADE FOR 2 SIDE ROADS/CROSSOVERS
		TOTALS	102792	

BITUMINOUS SHOULDER REPAIR/LEVELING

	BITUMINOUS PAVEMENT MIXTURE SURFACE LEVELING SQ.YD.	REMARKS
ESTIMATED	7040	DAMAGED RUMBLE STRIP AREAS
ESTIMATED	555	DAMAGED SHOULDER AREAS
TOTAL	7595	

BITUMINOUS PAVEMENT CRACK SEALING

	CRACK SEALANT LIN.FT.	REMARKS
ESTIMATED	12240	INCLUDES PAVEMENT AND SHOULDER AREAS

MODIFIED COLDMILLING (DEPTH TRANSITION)

SHEET	STATION	STATION	LOCATION	BITUMINOUS COLDMILLING SQ. YD.	REMARKS
005	286+00.00	287+40.00	BEGIN JOB (EBL)	591	EASTBOUND LANE
006	817+63.30	819+03.30	W/O BRIDGE A1175	591	EASTBOUND LANE
006	822+42.90	823+82.90	E/O BRIDGE A1175	591	EASTBOUND LANE
006	856+28.60	857+68.60	W/O BRIDGE A1176	591	EASTBOUND LANE
006	859+20.60	860+60.60	E/O BRIDGE A1176	591	EASTBOUND LANE
006	1140+85.92	1142+25.92	W/O BRIDGE G954	591	EASTBOUND LANE
006	1144+38.86	1145+78.86	E/O BRIDGE G954	591	EASTBOUND LANE
006	1175+23.80	1176+63.80	W/O BRIDGE G955	591	EASTBOUND LANE
006	1175+23.80	1176+63.80	W/O BRIDGE G955	591	EASTBOUND LANE
007	VARIOUS	VARIOUS	SIDE ROADS (42)	6476	OUTSIDE SHOULDER
007	VARIOUS	VARIOUS	CROSSOVERS (42)	9341	INSIDE SHOULDER
008	1+20.20	2+60.20	AT ROUTE 131	231	OUTSIDE SHOULDER
008	0+46.20	0+96.20	AT ROUTE 131	130	INSIDE SHOULDER
009	1+53.99	2+93.99	AT ROUTE 58	274	EB OFF RAMP
009	7+16.37	7+66.59	AT ROUTE 58	98	EB OFF RAMP
009	1418+50.00	1419+0.00	AT ROUTE 58	171	CROSSOVER
009	7+02.96	7+52.96	AT ROUTE 58	102	WB OFF RAMP
009	1416+73.05	1418+13.05	AT ROUTE 58	1042	
010	3+62.08	5+02.08	AT PCA ROAD	476	RAMP 2
011	12+15.42	12+65.42	AT WEST LOOP	105	RAMP
011	12+68.20	12+94.20	AT WEST LOOP	116	CROSSOVER
011	13+32.20	13+82.20	AT WEST LOOP	251	RAMP
011	1323+98.20	1324+14.20	AT EAST LOOP	94	CROSSOVER
011	1323+10.20	1323+60.70	AT EAST LOOP	188	
012	66+45.00	67+85.00	AT ROUTE 13	312	SW RAMP
012	71+07.59	72+47.59	AT ROUTE 13	591	UNDER RTE.13 BRIDGE
012	75+00.00	76+40.00	AT ROUTE 13	591	UNDER RTE.13 BRIDGE
012	80+62.50	82+02.50	AT ROUTE 13	283	SE RAMP
			TOTAL	26191	

MOBILIZATION

1 - LUMP SUM

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/2/2009

ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	003

COUNTY: JOHNSON
JOB NO.: J4P1973B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV. SEPT. 8. 97

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

HIGH BUILD ACRYLIC WATERBORNE PAINT

SHEET	STATION	STATION	LOCATION	6" SOLID WHITE L.F.	6" SOLID YELLOW L.F.	12" GORE WHITE L.F.	REMARKS
023,024	286+00.00	384+00.00	EASTBOUND 50	9800	9800		BEGINNING OF JOB
024	0+46.20	2+60.20	@ ROUTE 131	403	209		@ ROUTE 131
024	384+00.00	650+53.90 BK.	EASTBOUND 50	26654	26654		
	688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	11424	11424		
	808+11.20 AH.	933+85.10 BK.	EASTBOUND 50	12574	12574		
025	932+61.00 AH.	954+81.10	EASTBOUND 50	2220	2220		
025	954+81.10	955+98.10	EASTBOUND 50	117	117		
025	955+98.10	958+48.10	TAPER @ DECEL LANE	250	100		
025	1+53.99	2+93.99	@ LT OFF RAMP		140	280	
025	958+48.10	961+98.10	DECEL LANE @ RTE 58	700	350		
025	7+16.37	7+66.59	EB OFF RAMP @ RTE 58	138			
025	7+02.96	7+52.96	WB OFF RAMP @ RTE 58	138			
025	1416+73.05	1418+13.05	@ ROUTE 58	350			
025	963+60.00	973+90.14	ACCEL LANE @ RTE 58	2060	2060		AT ROUTE 58
025	973+90.14	974+90.14	TAPER @ ACCEL LANE	100	100		AT ROUTE 58
025	974+90.14	1184+73.00 BK.	EASTBOUND 50	20983	20983		
026	3+00.00 AH.	16+00.00	EASTBOUND 50	1300	1300		
026	12+68.20	13+82.20	@ WEST LOOP	277			
026	11+37.00	12+62.00	@ WEST LOOP	129		256	
027	16+00.00	61+73.96	EASTBOUND 50	4574	4574		
027	61+73.96	64+85.00	EASTBOUND 50	311	311		
027	64+85.00	67+85.00	EASTBOUND 50	300	300	600	INCLUDES S.W. RAMP
027	67+85.00	80+07.00	EASTBOUND 50	1222	1222		
027	80+07.00	83+07.00	EASTBOUND 50	300	300	600	INCLUDES S.E. RAMP
027	83+07.00	87+87.72	ACCEL LANE @ RTE 13	480	480	240	AT ROUTE 13
027	87+87.72	90+37.72	TAPER @ ACCEL LANE	250	250		AT ROUTE 13
027,028	90+37.72	100+55.06	EASTBOUND 50	1017	1017		
028	100+55.06	103+01.13	TAPER @ DECEL LANE	246	246		AT ROUTE PCA ROAD
028	103+01.13	106+62.02	DECEL LANE @ PCA ROAD	361	361	180	AT ROUTE PCA ROAD
028	106+62.02	111+65.00	EASTBOUND 50	1838	1838		AT ROUTE PCA ROAD
028	111+65.00	125+00.00	EASTBOUND 50	1335	1335		
028,026	125+00.00	141+00.00	EASTBOUND 50	1600	1600		
026	1323+10.00	1323+50.20	@ EAST LOOP	178	178		
026	1323+98.20	1324+15.20	@ EAST LOOP	100	100		
028,023	141+00.00	191+25.79	EASTBOUND 50	6626	6626		END OF JOB
			TOTALS	110355	108769	2156	

TEMPORARY RAISED PAVEMENT MARKING

STATION	STATION	LOCATION	TYPE 1 WHITE EACH	TYPE 2 WHITE EACH	REMARKS
286+00.00	650+53.90 BK.	EASTBOUND 50	1823	911	INCLUDES $HOULDER MARKINGS
688+89.90 AH.	803+13.80 BK.	EASTBOUND 50	571	286	INCLUDES $HOULDER MARKINGS
808+40.00	825+20.00	EASTBOUND 50	82	42	INCLUDES $HOULDER MARKINGS
828+42.70	857+88.30	EASTBOUND 50	149	74	INCLUDES $HOULDER MARKINGS
859+42.80	933+85.10 BK.	EASTBOUND 50	372	186	INCLUDES $HOULDER MARKINGS
932+61.00 AH.	1143+25.92	EASTBOUND 50	1052	527	INCLUDES $HOULDER MARKINGS
1145+14.08	1176+82.80	EASTBOUND 50	159	79	INCLUDES $HOULDER MARKINGS
1179+93.00	1184+73.00 BK.	EASTBOUND 50	22	12	INCLUDES $HOULDER MARKINGS
3+00.00 AH.	141+36.93 BK.	EASTBOUND 50	692	346	INCLUDES $HOULDER MARKINGS
141+03.33 AH.	191+25.79	EASTBOUND 50	251	126	INCLUDES $HOULDER MARKINGS
64+85.00	67+85.00	S.W. RAMP @ ROUTE 13	16	8	INCLUDES $HOULDER MARKINGS
80+07.00	83+07.00	S.E. RAMP @ ROUTE 13	16	8	INCLUDES $HOULDER MARKINGS
11+37.00	12+65.42	RAMP @ WEST LOOP	11	3	INCLUDES $HOULDER MARKINGS
13+32.20	13+82.20	WEST LOOP	10	2	INCLUDES $HOULDER MARKINGS
1323+10.20	1323+60.20	EAST LOOP	10	2	INCLUDES $HOULDER MARKINGS
0+00.00	5+02.08	RAMP 2 AT PCA ROAD	25	13	INCLUDES $HOULDER MARKINGS
1+20.20	2+60.20	ROUTE 131	12	4	INCLUDES $HOULDER MARKINGS
1+53.99	2+93.99	EB OFF RAMP @ ROUTE 58	4	4	
7+16.37	7+66.59	EB OFF RAMP @ ROUTE 58	2	2	
7+02.96	7+52.96	WB OFF RAMP @ ROUTE 58	2	2	
1416+73.05	1418+13.05	ROUTE 58	12	4	INCLUDES $HOULDER MARKINGS
		TOTALS	5293	2641	

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO

DISTRICT	SHEET NO.
4	003

COUNTY: JOHNSON

JOB NO.: J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

EFFECTIVE: 08-01-2008

SHEET 5 OF 5

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
							WARNING SIGNS
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48X24	8.00					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	48X24	8.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	36X48	12.00					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1a	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2a	48X48	16.00	1	16			YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W03-5	48X48	16.00	4	64			SPEED LIMIT XX AHEAD (SYMBOL)
W04-1L	48X48	16.00	1	16			MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00	1	16			MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.00	1	16			ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00	4	64			BUMP
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00	8	128			LOW SHOULDER
W08-9a	48X48	16.00	8	128			SHOULDER DROP-OFF
W08-11	48X48	16.00	4	64			UNEVEN LANES
W08-12	36X36	9.00					NO CENTER STRIPE
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-3a,b	144X24	24.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
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
W013-1	30X30	6.25	1	6.25			ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00					XXX FEET (PLAQUE)
W016-3	30X24	5.00					X MILE (PLAQUE)
W020-1	48X48	16.00	8	128			ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00					DETOUR AHEAD
W020-3	48X48	16.00					ROAD CLOSED AHEAD
W020-4	48X48	16.00					ONE LANE ROAD AHEAD
W020-5	48X48	16.00	4	64			RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00					RIGHT/CENTER/LEFT TWO LANES CLOSED AHEAD
W020-6a	48X48	16.00	4	64			RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00	2	32			FLAGGER (SYMBOL)
W021-2	36X36	9.00					FRESH OIL
W021-5b	48X48	16.00	2	32			SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19	2	4.38			WET PAINT (ARROW PIVOTS)
							GUIDE SIGNS
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00	1	12			EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
G020-1	60X24	10.00	2	20			ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	2	16			END ROAD WORK
G020-4	36X18	4.50					PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
G023-1	36X12	3.00	8	24			WORK ZONE (PLAQUE)
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
							REGULATORY SIGNS
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93	1	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	8	96			SPEED LIMIT XX (4-35 MPH), (4-65 MPH)
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	2	24			DO NOT PASS
R4-2	36X48	12.00	2	24			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					ROAD CLOSED
R11-3a	60X30	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	2	40			FINE SIGN
CONST-3X	56X12	4.67	2	9.34			SPEEDING/PASSING (PLATE)
							MISCELLANEOUS SIGNS
616-10.05 CONSTRUCTION SIGNS TOTAL				1115			
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)
612-20.10		IMPACT ATTENUATOR (10 SAND BARRELS)
612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS)
612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS)
612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS)
612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS)
612-20.20		REPLACEMENT SAND BARREL
612-20.30		IMPACT ATTENUATOR ARRAY (RELOCATION)
612-30.00	2	TRUCK MOUNTED ATTENUATOR (TMA)
616-10.20		CHANNELIZER (DRUM-LIKE)
616-10.22		CHANNELIZER (CONES)
616-10.24		CHANNELIZER (TRIM LINE) WITH LIGHT
616-10.25	316	CHANNELIZER (TRIM LINE)
616-10.26		CHANNELIZER (VERTICAL PANEL)
616-10.27		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
616-10.28		CHANNELIZER
616-10.30		TYPE III MOVEABLE BARRICADE
616-10.31		TYPE III MOVEABLE BARRICADE WITH LIGHT
616-10.33		DIRECTION INDICATOR BARRICADE
616-10.34		DIRECTION INDICATOR BARRICADE, WITH LIGHT
616-10.40	2	FLASHING ARROW PANEL
616-10.47		TYPE III OBJECT MARKER
616-10.51		WARNING LIGHT, TYPE A
616-10.52		WARNING LIGHT, TYPE B
616-10.53		WARNING LIGHT, TYPE C
616-10.54		STROBE LIGHT
616-10.70		TUBULAR MARKER
616-10.95		RADAR SPEED ADVISORY SYSTEM
616-10.96		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
616-10.98	1	CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
616-11.00		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
616-11.20	2	INSTALLING "DRIVE SMART", 48 IN. X 48 IN. SIGN
616-11.33	2	INSTALLING "POINT OF PRESENCE" SIGN
616-12.00		LAW ENFORCEMENT SERVICES
617-36.00C		CONTRACTOR FURNISHED/RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-36.02A		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-40.00		TEMPORARY CONCRETE BARRIER HEIGHT TRANSITION
617-50.10		RELOCATING TEMPORARY CONCRETE TRAFFIC BARRIER
617-60.00		COMMISSION FURNISHED/RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-70.00		COMMISSION FURNISHED/RETAINED PRECAST BARRIER HEIGHT TRANSITION
620-80.65	7934	TEMPORARY RAISED PAVEMENT MARKER
901-94.00		TEMPORARY LIGHTING
902-94.00		TEMPORARY TRAFFIC SIGNALS
902-94.01		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
4	003

COUNTY: JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

EFFECTIVE: 08-01-2008

SHEET 5 OF 5

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
							WARNING SIGNS
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48X24	8.00					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	48X24	8.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	36X48	12.00					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1a	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2a	48X48	16.00	1	16			YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W03-5	48X48	16.00	4	64			SPEED LIMIT XX AHEAD (SYMBOL)
W04-1L	48X48	16.00	1	16			MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00	1	16			MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.00	1	16			ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00	4	64			BUMP
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00	8	128			LOW SHOULDER
W08-9a	48X48	16.00	8	128			SHOULDER DROP-OFF
W08-11	48X48	16.00	4	64			UNEVEN LANES
W08-12	36X36	9.00					NO CENTER STRIPE
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-3a,b	144X24	24.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
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
W013-1	30X30	6.25	1	6.25			ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00					XXX FEET (PLAQUE)
W016-3	30X24	5.00					X MILE (PLAQUE)
W020-1	48X48	16.00	8	128			ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00					DETOUR AHEAD
W020-3	48X48	16.00					ROAD CLOSED AHEAD
W020-4	48X48	16.00					ONE LANE ROAD AHEAD
W020-5	48X48	16.00	4	64			RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00					RIGHT/CENTER/LEFT TWO LANES CLOSED AHEAD
W020-6a	48X48	16.00	4	64			RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00	2	32			FLAGGER (SYMBOL)
W021-2	36X36	9.00					FRESH OIL
W021-5b	48X48	16.00	2	32			SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19	2	4.38			WET PAINT (ARROW PIVOTS)
							GUIDE SIGNS
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00	1	12			EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
G020-1	60X24	10.00	2	20			ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	2	16			END ROAD WORK
G020-4	36X18	4.50					PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
G023-1	36X12	3.00	8	24			WORK ZONE (PLAQUE)
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
							REGULATORY SIGNS
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93	1	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	8	96			SPEED LIMIT XX **(4-35 MPH), (4-65 MPH)**
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	2	24			DO NOT PASS
R4-2	36X48	12.00	2	24			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					ROAD CLOSED
R11-3a	60X30	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	2	40			FINE SIGN
CONST-3X	56X12	4.67	2	9.34			SPEEDING/PASSING (PLATE)
							MISCELLANEOUS SIGNS
616-10.05 CONSTRUCTION SIGNS TOTAL				1115			
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)
612-20.10		IMPACT ATTENUATOR (10 SAND BARRELS)
612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS)
612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS)
612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS)
612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS)
612-20.20		REPLACEMENT SAND BARREL
612-20.30		IMPACT ATTENUATOR ARRAY (RELOCATION)
612-30.00A	2	TRUCK MOUNTED ATTENUATOR (TMA)
616-10.20		CHANNELIZER (DRUM-LIKE)
616-10.22		CHANNELIZER (CONES)
616-10.24		CHANNELIZER (TRIM LINE) WITH LIGHT
616-10.25	316	CHANNELIZER (TRIM LINE)
616-10.26		CHANNELIZER (VERTICAL PANEL)
616-10.27		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
616-10.28		CHANNELIZER
616-10.30		TYPE III MOVEABLE BARRICADE
616-10.31		TYPE III MOVEABLE BARRICADE WITH LIGHT
616-10.33		DIRECTION INDICATOR BARRICADE
616-10.34		DIRECTION INDICATOR BARRICADE, WITH LIGHT
616-10.40	2	FLASHING ARROW PANEL
616-10.47		TYPE III OBJECT MARKER
616-10.51		WARNING LIGHT, TYPE A
616-10.52		WARNING LIGHT, TYPE B
616-10.53		WARNING LIGHT, TYPE C
616-10.54		STROBE LIGHT
616-10.70		TUBULAR MARKER
616-10.95		RADAR SPEED ADVISORY SYSTEM
616-10.96		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
616-10.98	1	CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
616-11.00		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
616-11.20	2	INSTALLING "DRIVE SMART", 48 IN. X 48 IN. SIGN
616-11.33	2	INSTALLING "POINT OF PRESENCE" SIGN
616-12.00		LAW ENFORCEMENT SERVICES
617-36.00C		CONTRACTOR FURNISHED/RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-36.02A		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-40.00		TEMPORARY CONCRETE BARRIER HEIGHT TRANSITION
617-50.10		RELOCATING TEMPORARY CONCRETE TRAFFIC BARRIER
617-60.00		COMMISSION FURNISHED/RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-70.00		COMMISSION FURNISHED/RETAINED PRECAST BARRIER HEIGHT TRANSITION
620-80.65		TEMPORARY RAISED PAVEMENT MARKER
901-94.00		TEMPORARY LIGHTING
902-94.00		TEMPORARY TRAFFIC SIGNALS
902-94.01		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 2/9/2009

ROUTE	STATE
50	MO
DISTRICT	SHEET NO.
4	003

COUNTY: JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

NOTE: ANY WORK INDICATED ON THE PLANS THAT EXTEND BEYOND THE LIMITS OF THIS PROJECT IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

GRAPHIC SCALE

1 0 1 2 3

BEGIN/END OF PROJECT

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	004
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

DETAIL "A"

* COLDMILL TAPER FROM TO 0" TO 1-3/4" (EXIST ASPHALT)
** TAPER FROM 1" TO 0" (SP125C ASPHALT MIX)
*** 1-3/4" RESURFACING (SP125C ASPHALT MIX)

GRAPHIC SCALE
1 0 1 2 3

COLDMILLING DEPTH TRANSITIONS
EASTBOUND LANE RESURFACING

SHEET 1 OF 8

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009	
ROUTE US50	STATE MO
DISTRICT 4	SHEET NO. 005
COUNTY JOHNSON	
JOB NO. J4P1973B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

DETAIL "A"

* COLDMILL TAPER FROM TO 0″ TO 1-3/4″ (EXIST ASPHALT)
** TAPER FROM 1″ TO 0″ (SP125C ASPHALT MIX)
*** 1-3/4″ RESURFACING (SP125C ASPHALT MIX)

DETAIL "B"

* COLDMILL TAPER FROM TO 0″ TO 1-3/4″ (EXIST ASPHALT)
** TAPER FROM 1″ TO 0″ (SP125C ASPHALT MIX)
*** 1-3/4″ RESURFACING (SP125C ASPHALT MIX)

NOTE: USE THIS TYPICAL DETAIL FOR ALL DEPTH TRANSITIONS AT BRIDGE ENDS.

COLDMILLING DEPTH TRANSITIONS AT BRIDGES ENDS

SHEET 2 OF 8

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
1/9/2009	
ROUTE: US50	STATE: MO
DISTRICT: 4	SHEET NO.: 006
COUNTY: JOHNSON	
JOB NO.: J4P1973B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

NOTE: USE THIS TYPICAL DETAIL FOR ALL CROSS-OVERS THRU AREAS OF RESURFACING.

SECTION A-A
(THRU MEDIAN CROSSOVER)

DEPTH TRANSITIONS AT MEDIAN CROSSOVERS

SHEET 3 OF 8

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER
PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	007
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

DETAIL "A"

* COLDMILL TAPER FROM TO 0" TO 1-3/4" (EXIST ASPHALT)
** TAPER FROM 1" TO 0" (SP125C ASPHALT MIX)
*** 1-3/4" RESURFACING (SP125C ASPHALT MIX)

DETAIL "B"

* COLDMILL TAPER FROM TO 0" TO 1-3/4" (EXIST ASPHALT)
** TAPER FROM 1" TO 0" (SP125C ASPHALT MIX)
*** 1-3/4" RESURFACING (SP125C ASPHALT MIX)

DEPTH TRANSITIONS AT MO 131

SHEET 4 OF 8

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009	
ROUTE US50	STATE MO
DISTRICT 4	SHEET NO. 008
COUNTY JOHNSON	
JOB NO. J4P1973B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

DETAIL "A"

* COLDMILL TAPER FROM TO 0" TO 1-3/4" (EXIST ASPHALT)
** TAPER FROM 1" TO 0" (SP125C ASPHALT MIX)
*** 1-3/4" RESURFACING (SP125C ASPHALT MIX)

DETAIL "B"

* COLDMILL TAPER FROM TO 0" TO 1-3/4" (EXIST ASPHALT)
** TAPER FROM 1" TO 0" (SP125C ASPHALT MIX)
*** 1-3/4" RESURFACING (SP125C ASPHALT MIX)

SCALE
0 50 100 150

COLDMILLING DEPTH TRANSITION
US 50 AT MO 58

SHEET 5 OF 8

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	009
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

DETAIL "A"

* COLDMILL TAPER FROM TO 0" TO 1-3/4" (EXIST ASPHALT)
** TAPER FROM 1" TO 0" (SP125C ASPHALT MIX)
*** 1-3/4" RESURFACING (SP125C ASPHALT MIX)

COLDMILLING DEPTH TRANSITIONS
RAMPS AT PCA ROAD

SHEET 6 OF 8

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	010
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

DETAIL "A"

COLDMILL TAPER FROM TO 0" TO 1" (EXIST ASPHALT)

DETAIL "B"

COLDMILL TAPER FROM TO 0" TO 1" (EXIST ASPHALT)

WEST LOOP CONNECTION

EAST LOOP CONNECTION

GRAPHIC SCALE

1 0 1 2 3

COLDMILLING DEPTH TRANSITIONS AT BUSINESS 50

SHEET 7 OF 8

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	011
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

DETAIL "A"

* COLDMILL TAPER FROM TO 0" TO 1-3/4" (EXIST ASPHALT)
** TAPER FROM 1" TO 0" (SP125C ASPHALT MIX)
*** 1-3/4" RESURFACING (SP125C ASPHALT MIX)

GRAPHIC SCALE
1 0 1 2 3

COLDMILLING DEPTH TRANSITIONS
MO 13 AT US 50

SHEET 8 OF 8

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
1/9/2009	
ROUTE: US50	STATE: MO
DISTRICT: 4	SHEET NO.: 012
COUNTY: JOHNSON	
JOB NO.: J4P1973B	
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)

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

REV.

Multi-Lane Divided

BEGIN/END OF PROJECT SIGNING (FOR USE ON ALL PROJECTS)

SIGN SPACING FOR ADVANCE SIGN SERIES SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

NOTES: SIGN (1) IS ONLY REQUIRED ON PROJECTS OF 2 MILES OR GREATER IN LENGTH.

SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN (1) IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

TRAFFIC CONTROL PLAN

SHEET 1 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	013

COUNTY: JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

W020-1

(2)

W3-5

(3)

R2-1

(4)

W020-5

(5)

W020-6a

(6)

(NORMAL SPEED)

R2-1

(25)

FLASHING
ARROW PANEL

G023-1

(54)

CHANNELIZERS

G020-2

(26)

G020-1

(1)

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205FT	225FT	245FT	35FT	50FT
40-45	450FT	495FT	540FT	40FT	100FT
50-55	550FT	605FT	660FT	50FT	100FT
60-70	700FT	770FT	840FT	60FT	100FT

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

TAPER LENGTH (L)

$L = W \times S$ FOR 45 MPH OR MORE

$L = \frac{WS^2}{60}$ FOR 40 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED PRIOR TO ROAD WORK IN MPH

SIGN (1) IS ONLY REQUIRED ON PROJECTS OF 2 MILES OR GREATER IN LENGTH.

SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN (1) IS USED.

TWO-LANE DIVIDED HIGHWAY (LEFT/RIGHT LANE CLOSURE)

TRAFFIC CONTROL PLAN

SHEET 2 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
1/9/2009	
ROUTE: US50	STATE: MO
DISTRICT: 4	SHEET NO.: 014
COUNTY: JOHNSON	
JOB NO.: J4P1973B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

LANE CLOSURE
(EXIT RAMP AREAS)

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205 FT	225 FT	245 FT	35 FT	50 FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

TAPER LENGTH (L)

$L = W \times S$ FOR 45 MPH OR MORE

$L = \frac{WS^2}{60}$ FOR 40 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED PRIOR TO ROAD WORK IN MPH

NOTES: REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

(1) SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) 5 DEVICE MINIMUM.

(3) FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, USE TRIM-LINE CHANNELIZERS.

TRAFFIC CONTROL PLAN

SHEET 3 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT 4	SHEET NO. 015

COUNTY: JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

LANE CLOSURE
(ENTRANCE RAMP AREAS)

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205 FT	225 FT	245 FT	35 FT	50 FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

TAPER LENGTH (L)

L = W x S FOR 45 MPH OR MORE

L = $\frac{WS^2}{60}$ FOR 40 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED PRIOR TO ROAD WORK IN MPH

NOTES:

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR RAMPS WITH SHARP CURVES OR MULTIPLE LANES, RAMP SIGNS MAY BE PLACED ON BOTH SIDES OF THE RAMP.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

(1) SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) SIGN (13) SHOULD BE PLACED ON THE RAMP TO PROVIDE ADEQUATE VISIBILITY OF MAINLINE TRAFFIC.

(3) THE LOCATION OF THE SIGN SEQUENCE AND MERGE TAPER SHOULD BE ADJUSTED SO THAT THE ARROW PANEL LOCATION IS NOT CONFUSING TO MOTORISTS ON THE RAMP.

(4) FOR WORK ZONES WHERE DEVICES ARE IN PLACE OVERNIGHT, USE TRIM-LINE CHANNELIZERS.

TRAFFIC CONTROL PLAN

SHEET 4 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT 4	SHEET NO. 016

COUNTY JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205 FT	225 FT	245 FT	35 FT	50 FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

TAPER LENGTH (L)

$L = W \times S$ FOR 45 MPH OR MORE

$L = \frac{WS^2}{60}$ FOR 40 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED PRIOR TO ROAD WORK IN MPH

NOTES:

REMOVE AND/OR MODIFY ANY EXISTING PAVEMENT MARKING AS NEEDED.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

LANE CLOSURE
(PARTIAL RAMP LANE)

TRAFFIC CONTROL PLAN

SHEET 5 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE US50 | STATE MO
DISTRICT 4 | SHEET NO. 017
COUNTY JOHNSON
JOB NO. J4P1973B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

NOTES:

USE "BEGIN/END PROJECT SIGNING SHEET

THE FLAGGER WHEN USED, SHOULD BE LOCATED WHERE THEY WILL PROVIDE THE MOST VALUE TO THE MOTORIST AND THE WORK CREW.

IF THE FLAGGER IS NOT USED, THE ADVANCED FLAGGER SIGN SHOULD BE DELETED.

MOVING OPERATION ON HIGHWAY OPEN TO TRAFFIC
(MULTI-LANE DIVIDED HIGHWAY)

TRAFFIC CONTROL PLAN

SHEET 6 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	018

COUNTY: JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

Multi-Lane Divided Highway

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

MOVING OPERATION ON HIGHWAY OPEN TO TRAFFIC (PAVEMENT MARKING)

TRAFFIC CONTROL PLAN

SHEET 7 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	019

COUNTY: JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

ON-RAMP LANE CLOSURE 1

CROSSROAD SIGNING AT RAMP TERMINALS

ON-RAMP LANE CLOSURE 2

CROSSROAD SIGNING AT RAMP TERMINALS

TRAFFIC CONTROL PLAN

SHEET 8 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
1/9/2009	
ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	020
COUNTY	
JOHNSON	
JOB NO.	
J4P1973B	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

REV.

W020-1

(2)

W3-5

(3)

R2-1

(4)

W020-5

(5)

W020-6a

(6)

(NORMAL SPEED)

R2-1

(25)

R4-1

(46)

CONST-3A

(53)

CONST-3X

(53A)

R4-2

(46A)

FLASHING
ARROW PANEL

G023-1

(54)

CHANNELIZERS

NOTE: USE THIS TYPIAL LAYOUT WHERE APPLICABLE.

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205FT	225FT	245FT	35FT	50FT
40-45	450FT	495FT	540FT	40FT	100FT
50-55	550FT	605FT	660FT	50FT	100FT
60-70	700FT	770FT	840FT	60FT	100FT

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

TAPER LENGTH (L)

$L = W \times S$ FOR 45 MPH OR MORE

$L = \frac{WS^2}{60}$ FOR 40 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED PRIOR TO ROAD WORK IN MPH

TWO-LANE DIVIDED HIGHWAY ("WORK ZONE FINE" SIGNS)

TRAFFIC CONTROL PLAN

SHEET 9 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT 4	SHEET NO. 021

COUNTY JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

CROSS SECTION	CONDITION: DIFFERENTIAL	CONDITION: TIME	TREATMENT	SIGN: MAINLINE (2)	SIGN: SIDE ROAD (3)
	PAVEMENT EDGE DIFFERENTIAL ≤ 2"	NON-WORKING AND WORKING HOURS	NO EDGE TREATMENT REQUIRED	LOW SHOULDER W08-9 (4)(5)	NO SIGNS REQUIRED
	PAVEMENT EDGE DIFFERENTIAL > 2" TO ≤ 3"	NON-WORKING HOURS	WEDGE SLOPE TO 1V:1H OR FLATTER	SHOULDER DROP OFF W08-9a (5)(6)	NO SIGNS REQUIRED
		WORKING HOURS	NO EDGE TREATMENT REQUIRED		
	PAVEMENT EDGE DIFFERENTIAL > 2" TO ≤ 3"	NON-WORKING HOURS	WEDGE SLOPE TO 1V:1H OR FLATTER	SHOULDER DROP OFF W08-9a (5)(6)	NO SIGNS REQUIRED
		WORKING HOURS	NO EDGE TREATMENT REQUIRED		
	PAVEMENT EDGE DIFFERENTIAL > 3"	NON-WORKING HOURS	WEDGE SLOPE TO 1V:3H OR FLATTER	SHOULDER DROP OFF W08-9a (5)(6)	BUMP W08-1 (4)
		WORKING HOURS	DELINEATE DIFFERENTIAL WITH CHANNELIZERS		
	LANE LINE DIFFERENTIAL ≤ 2"	NON-WORKING AND WORKING HOURS	NO EDGE TREATMENT REQUIRED	UNEVEN LANES W08-11 (4)(7)	NO SIGNS REQUIRED
	LANE LINE DIFFERENTIAL > 2"	NON-WORKING AND WORKING HOURS WHERE LANES OPEN TO TRAFFIC	WEDGE SLOPE TO 1V:3H OR FLATTER	UNEVEN LANES W08-11 (4)(7)	BUMP W08-1 (4)
		NON-WORKING AND WORKING HOURS WHERE LANE CLOSED TO TRAFFIC	DELINEATE DIFFERENTIAL WITH CHANNELIZERS		
	ANY PAVEMENT EDGE OR LANE LINE DIFFERENTIAL	NON-WORKING AND WORKING HOURS WHERE PLANS REQUIRE ADJACENT LANE CLOSURE WITH CHANNELIZATION OR PARTIAL LANE CLOSURE WITH BARRIER.	NO EDGE TREATMENT REQUIRED	NO SIGNS REQUIRED	NO SIGNS REQUIRED

(1) SIGNS SHALL BE VISIBLE TO TRAFFIC ONLY WHEN AND WHERE CONDITIONS EXIST.
(2) SIGNS SHALL BE SPACED AT APPROXIMATELY $\frac{1}{2}$ MILE INTERVALS AND LOCATED WITHIN 150 FT. BEYOND ANY SIDE ROADS. WHEN A SIGN PLACED AT THE $\frac{1}{2}$ MILE INTERVAL FALLS WITHIN $\frac{1}{8}$ MILE OF A SIGN PLACED AFTER AN INTERSECTION, THE SIGN PLACED AT THE $\frac{1}{2}$ MILE INTERVAL MAY BE OMITTED.
(3) ON SIDE ROADS WITH POSTED SPEED OF 45 MPH OR GREATER, SIGNS SHALL BE PLACED 150 FT. IN ADVANCE OF INTERSECTION WITH MAINLINE.
(4) AS SPECIFIED IN PLANS.
(5) SIGNS SHALL BE LOCATED ON THE SIDE OF THE ROADWAY WHERE THE PAVEMENT EDGE DIFFERENTIAL EXISTS. ON TWO-LANE UNDIVIDED HIGHWAYS, BACK-TO-BACK SIGNS SHALL BE PROVIDED ON THE SIDE OF THE ROADWAY, WHERE THE PAVEMENT EDGE DIFFERENTIAL EXISTS.
(6) SIGNS TO REMAIN VISIBLE UNTIL SHOULDER SHAPING IS COMPLETE.
(7) SIGNS SHALL BE LOCATED ON RIGHT SIDE OF NON-DIVIDED HIGHWAYS AND ON BOTH SIDES OF DIVIDED HIGHWAYS WHERE A LANE LINE DIFFERENTIAL EXISTS.

LEGEND

- RIGID PAVEMENT
- FLEXIBLE PAVEMENT
- ALL PAVEMENT TYPES

TRAFFIC CONTROL PLAN
PAVEMENT EDGE TREATMENT

SHEET 10 OF 10

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT 4	SHEET NO. 022

COUNTY: JOHNSON
JOB NO.: J4P1973B
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

NOTE: INTERMITTENT WHITE PAVEMENT MARKING WILL BE COVERED BY 3M CONTRACT.

GRAPHIC SCALE

1 0 1 2 3

PERMANENT PAVEMENT MARKING

SHEET 1 OF 6

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT 4	SHEET NO. 023

COUNTY JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

NOTE: INTERMITTENT WHITE PAVEMENT MARKING WILL BE COVERED BY 3M CONTRACT.

PERMANENT PAVEMENT MARKING

SHEET 2 OF 6

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2009

ROUTE	STATE
US50	MO
DISTRICT	SHEET NO.
4	024

COUNTY: JOHNSON

JOB NO. J4P1973B

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

NOTE: INTERMITTENT WHITE PAVEMENT MARKING WILL BE COVERED BY 3M CONTRACT.

PERMANENT PAVEMENT MARKING

SHEET 3 OF 6

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	025
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

WEST LOOP CONNECTION

EAST LOOP CONNECTION

NOTE: INTERMITTENT WHITE PAVEMENT MARKING WILL BE COVERED BY 3M CONTRACT.

GRAPHIC SCALE

1 0 1 2 3

PERMANENT PAVEMENT MARKING

SHEET 4 OF 6

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	026
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

NOTE: INTERMITTENT WHITE PAVEMENT MARKING WILL BE COVERED BY 3M CONTRACT.

PERMANENT PAVEMENT MARKING

SHEET 5 OF 6

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	027
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.

NOTE: INTERMITTENT WHITE PAVEMENT MARKING WILL BE COVERED BY 3M CONTRACT.

PERMANENT PAVEMENT MARKING

SHEET 6 OF 6

STATE OF MISSOURI
PAUL C. BOENISCH
NUMBER PE-2001004559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	1/9/2009
ROUTE	US50
STATE	MO
DISTRICT	4
SHEET NO.	028
COUNTY	JOHNSON
JOB NO.	J4P1973B
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

REV.