

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**LIC-40-0.00**

CITY OF REYNOLDSBURG  
VILLAGE OF KIRKERSVILLE

ETNA AND HARRISON TOWNSHIPS

LICKING COUNTY

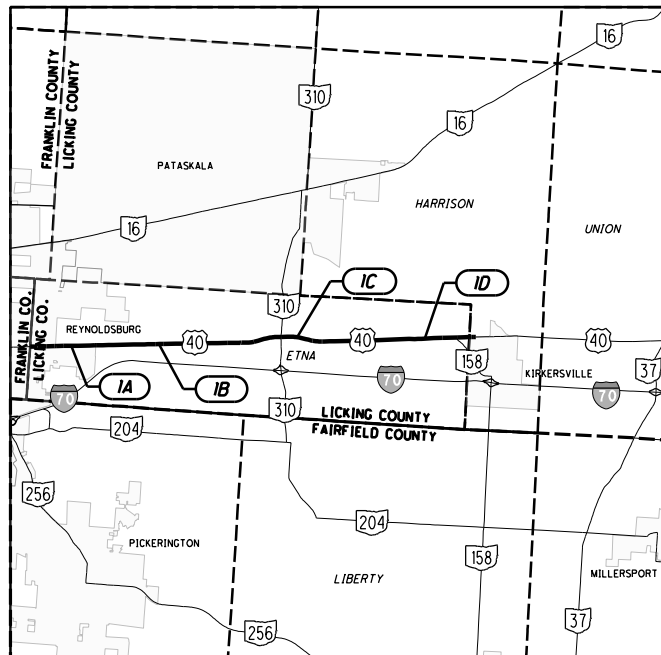
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PROJECT DESCRIPTION

ASPHALT CONCRETE RESURFACING AND RELATED WORK ON U.S. 40 IN LICKING COUNTY, INCLUDING FULL DEPTH PAVEMENT REPLACEMENT FROM SLM 4.67 TO SLM 9.27 AND REMOVAL OF GRASS MEDIAN FROM SLM 5.90 TO SLM 9.27 WITH ADDITION OF RIGHT TURN LANES AT SMOKE ROAD AND NEW SOUTHWEST LICKING SCHOOL DRIVE WITH INSTALLATION OF NEW TRAFFIC SIGNAL.

PROJECT EARTH DISTURBED AREA = 62.5 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA = 2.0 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA = 64.5 ACRES



LOCATION MAP

LATITUDE: 39° 57' 28" LONGITUDE: 82° 39' 13"

PORTION TO BE IMPROVED -----

DESIGN DESIGNATION	U.S. 40			
	IA	IB	IC	ID
FUNCTIONAL CLASSIFICATION	UPA	UPA	UPA/UMC	RMC
OPENING YEAR ADT (2023)	17,000	16,500	16,500	11,000
DESIGN YEAR ADT (2043)	22,500	21,500	21,500	15,500
DESIGN HOURLY VOLUME (2043)	2,700	2,500	2,500	1,800
DIRECTIONAL DISTRIBUTION	60%	60%	60%	60%
TRUCKS (24 HOUR B&C)	3%	3%	3%	6%
DESIGN SPEED (MPH)	35	35/55	60	60
LEGAL SPEED (MPH)	35	35/55	55	55
NHS PROJECT	NO	NO	NO	NO

UPA = URBAN PRINCIPAL ARTERIAL UMC = URBAN MAJOR COLLECTOR  
RMC = RURAL MAJOR COLLECTOR

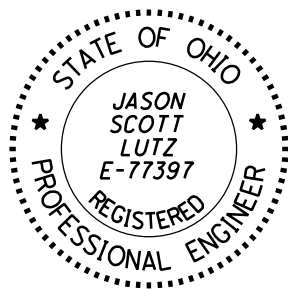
DESIGN EXCEPTIONS

SHOULDER WIDTH (SLM 4.67-6.14) - 7/15/2020  
SUPERELEVATION (CURVE 1) - 7/15/2020



PLAN PREPARED BY:  
OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 5 PLANNING & ENGINEERING

ENGINEER'S SEAL



SIGNED: *Jason Lutz*  
DATE: 9/28/2020

STANDARD CONSTRUCTION DRAWINGS

NO.	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE	DESCRIPTION
BP-3.1	01/17/20	MGS-1.1	1/19/18	MT-101.90	7/17/20	TC-71.10	1/19/18	SUPPLEMENTAL SPECIFICATIONS
BP-3.2	1/18/19	MGS-2.1	1/19/18	MT-104.10	10/16/15	TC-81.11	7/17/20	
BP-4.1	7/19/13	MGS-4.2	7/19/13	MT-105.10	1/17/20	TC-82.10	7/19/19	800 10/16/20
BP-5.1	1/18/19	MGS-5.2	7/15/16	MT-120.00	1/19/18	TC-83.10	1/17/20	807 7/17/20
BP-7.1	7/17/20	MGS-5.3	7/15/16			TC-83.20	7/21/17	808 1/18/19
				TC-21.21	7/17/20	TC-84.20	10/18/13	809 7/17/20
CB-1.1	7/19/19	HW-2.1	7/20/18	TC-41.10	7/19/13	TC-84.21	10/18/13	815 4/20/18
CB-3.3	1/15/16	HW-2.2	7/20/18	TC-41.20	10/18/13	TC-85.21	4/17/20	821 4/20/12
				TC-41.30	10/18/13	TC-85.22	1/19/18	832 10/19/18
DM-1.1	7/17/20	MT-95.31	7/19/19	TC-41.50	10/18/13			878 1/17/20
DM-1.2	1/18/13	MT-95.70	1/17/20	TC-42.10	10/18/13			905 4/17/20
DM-1.3	7/18/14	MT-97.12	1/20/17	TC-42.20	10/18/13			906 10/15/20
DM-4.4	1/15/16	MT-99.20	4/19/19	TC-51.11	1/15/16			908 10/20/17
		MT-99.30	1/17/20	TC-52.10	10/18/13			909 7/17/20
RM-4.2	4/17/20	MT-100.00	1/15/16	TC-52.20	7/20/18			921 4/20/12
		MT-101.60	1/17/20	TC-61.30	7/19/19			
		MT-101.70	1/17/20	TC-65.10	1/17/14			
		MT-101.75	1/17/20	TC-65.11	7/21/17			
								SPECIAL PROVISIONS
								SLCWSO SCD'S DATE: 5/17

APPROVED *W. Lutz*  
DATE 10-6-20 PUBLIC SERVICE DIRECTOR  
CITY OF REYNOLDSBURG

APPROVED *Robert T. Jennell*  
DATE 10/05/2020 SOUTHWEST LICKING SCHOOLS ADMINISTRATOR

APPROVED *Jason Z. Sarge*  
DATE 9/25/2020 DISTRICT DEPUTY DIRECTOR

APPROVED *Tom Pannett*  
DATE \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION  
Digitally signed by Tom Pannett  
Date: 2020.11.18 09:46:36-05'00'

FEDERAL PROJECT NO. E150(647)  
CONSTRUCTION PROJECT NO. 93109  
RAILROAD INVOLVEMENT NONE  
LIC-40-0.00  
1/42

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LOCATION 1C SHEET TOTALS

LOCATION 1C SHEET TOTALS												ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
68	69	152	153	154	155	157	159	161	342	366	367					
						<b>ROADWAY</b>										
		25,740	25,680						161			202	23000	51,581	SY	PAVEMENT REMOVED
		1,314	1,545									202	38000	2,859	FT	GUARDRAIL REMOVED
					12,142				52			203	10000	12,194	CY	EXCAVATION
					4,836				16			203	20000	4,852	CY	EMBANKMENT
									305			204	10000	305	SY	SUBGRADE COMPACTION
						15	15	1				204	45000	31	HOUR	PROOF ROLLING
						854	849	19				206	10500	1,722	TON	CEMENT
						28,269	28,118	621				206	11000	57,008	SY	CURING COAT
						28,269	28,118	621				206	15020	57,008	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP
				3,537.5								606	15050	3,537.5	FT	GUARDRAIL, TYPE MGS
				4								606	26150	4	EACH	ANCHOR ASSEMBLY, MGS TYPE E (NCHRP 350/MASH 2016)
				4								606	26500	4	EACH	ANCHOR ASSEMBLY, TYPE T
				41								626	00110	41	EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)
									1			SPECIAL	69050100	1	EACH	MAILBOX SUPPORT SYSTEM, SINGLE
									2			SPECIAL	69050350	2	EACH	MAILBOX REMOVED AND RESET
						<b>EROSION CONTROL</b>										
	5									2	2	601	21050	9	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
					2,043							653	10001	2,043	CY	TOPSOIL FURNISHED AND PLACED, AS PER PLAN
	2											659	00100	2	EACH	SOIL ANALYSIS TEST
					47,223							659	00510	47,223	SY	SEEDING AND MULCHING, CLASS 2
2,361												659	14000	2,361	SY	REPAIR SEEDING AND MULCHING
2,361												659	15000	2,361	SY	INTER-SEEDING
6.59												659	20000	6.59	TON	COMMERCIAL FERTILIZER
9.76												659	31000	9.76	ACRE	LIME
261												659	35000	261	MGAL	WATER
					4,119							670	00720	4,119	SY	DITCH EROSION PROTECTION MAT, TYPE B

CALCULATED  
PTB  
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JSL

LOCATION 1C SUB-SUMMARY

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LOCATION 1C SHEET TOTALS										ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	
69	73	157	159	161	342	364	365	366	367						
															<b>DRAINAGE</b>
						804				202	35100	804	FT	PIPE REMOVED, 24" AND UNDER	
						12				202	58100	12	EACH	CATCH BASIN REMOVED	
						279				SPECIAL	20270000	279	FT	FILL AND PLUG EXISTING CONDUIT, 15"	
				2			2			602	20000	4	CY	CONCRETE MASONRY	
								6,396	6,380	605	11100	12,776	FT	6" SHALLOW PIPE UNDERDRAINS	
20								200	200	605	13300	420	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
								7,583	7,563	605	14000	15,146	FT	6" BASE PIPE UNDERDRAINS	
20										605	31100	20	FT	AGGREGATE DRAINS	
20										611	00100	20	FT	4" CONDUIT, TYPE B	
40										611	00900	40	FT	6" CONDUIT, TYPE B	
								528	541	611	00510	1,069	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
20										611	01400	20	FT	6" CONDUIT, TYPE E	
40										611	01500	40	FT	6" CONDUIT, TYPE F	
								189		611	05900	189	FT	15" CONDUIT, TYPE B	
				181						611	06400	181	FT	15" CONDUIT, TYPE D	
								5		611	07400	5	FT	18" CONDUIT, TYPE B	
								199		611	12100	199	FT	27" CONDUIT, TYPE C	
								1,075		611	97010	1,075	FT	SLOTTED DRAIN, TYPE 2 , 12"	
								8		611	98410	8	EACH	CATCH BASIN, NO. 8	
								6		611	98630	6	EACH	CATCH BASIN ADJUSTED TO GRADE	
								5		611	98631	5	EACH	CATCH BASIN ADJUSTED TO GRADE, AS PER PLAN	
2									1	1	611	99710	4	EACH	PRECAST REINFORCED CONCRETE OUTLET
				35						625	29600	35	FT	TRENCH IN PAVED AREA, TYPE B	
															<b>PAVEMENT</b>
	100									253	02000	100	CY	PAVEMENT REPAIR	
	3,500									254	01000	3,500	SY	PAVEMENT PLANING, ASPHALT CONCRETE , 1.25"	
		2,541	2,615							254	01000	5,156	SY	PAVEMENT PLANING, ASPHALT CONCRETE , VARIABLE (3.00" MAX)	
				394						254	01000	394	SY	PAVEMENT PLANING, ASPHALT CONCRETE , VARIABLE (5.00" MAX)	
		4,807	4,854	158						301	46000	9,819	CY	ASPHALT CONCRETE BASE, PG64-22	
					19					301	48000	19	CY	ASPHALT CONCRETE BASE, PG64-22 (DRIVEWAYS)	
		4,911	4,881	110						304	20000	9,902	CY	AGGREGATE BASE	
	280	3,083	3,075	113	10					407	20000	6,561	GAL	NON-TRACKING TACK COAT	
	250	684	681							408	10001	1,615	GAL	PRIME COAT, AS PER PLAN	
					34					411	10000	34	CY	STABILIZED CRUSHED AGGREGATE	
	125			36	6					441	50000	167	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
		2,089	2,097							442	00100	4,186	CY	ANTI-SEGREGATION EQUIPMENT	
		1,285	1,282							442	10000	2,567	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
		1,285	1,282							442	10101	2,567	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN (PG64-22/PG64-28)	
	25	95	95							617	10101	215	CY	COMPACTED AGGREGATE, AS PER PLAN	

CALCULATED	PTB	CHECKED	JSL
LOCATION 1C SUB-SUMMARY			
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38		442	

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LOCATION 1D SHEET TOTALS

LOCATION 1D SHEET TOTALS													ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
68	69	152	153	154	155	156	158	160	161	343	366	367					
																	<b>ROADWAY</b>
		57,370	58,400							2,219			202	23000	117,989	SY	PAVEMENT REMOVED
		114	118										202	23001	232	SY	PAVEMENT REMOVED, AS PER PLAN
										33			202	32000	33	FT	CURB REMOVED
		3,344	1,538										202	38000	4,882	FT	GUARDRAIL REMOVED
1													202	98100	1	EACH	REMOVAL MISC.: PRIVATE SIGN AND LANDSCAPING
						21,041				140			203	10000	21,181	CY	EXCAVATION
						5,774				100			203	20000	5,874	CY	EMBANKMENT
										2,528			204	10000	2,528	SY	SUBGRADE COMPACTION
										18,112			204	20000	18,112	CY	EMBANKMENT
							33			34	1		204	45000	68	HOUR	PROOF ROLLING
										1,979	2,001	23	206	10500	4,003	TON	CEMENT
										65,524	66,266	738	206	11000	132,528	SY	CURING COAT
										65,524	66,266	738	206	15020	132,528	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP
					6,525.0								606	15050	6,525.0	FT	GUARDRAIL, TYPE MGS
					10								606	26150	10	EACH	ANCHOR ASSEMBLY, MGS TYPE E (NCHRP 350/MASH 2016)
					20								606	26500	20	EACH	ANCHOR ASSEMBLY, TYPE T
													626	00110	84	EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)
										25			SPECIAL	69050100	25	EACH	MAILBOX SUPPORT SYSTEM, SINGLE
										18			SPECIAL	69050200	18	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE
										78			SPECIAL	69050350	78	EACH	MAILBOX REMOVED AND RESET
																	<b>EROSION CONTROL</b>
	5										26	24	601	21050	55	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT
											518		653	10001	518	CY	TOPSOIL FURNISHED AND PLACED, AS PER PLAN
													659	00100	2	EACH	SOIL ANALYSIS TEST
													659	00510	45,288	SY	SEEDING AND MULCHING, CLASS 2
2,268													659	14000	2,268	SY	REPAIR SEEDING AND MULCHING
2,268													659	15000	2,268	SY	INTER-SEEDING
6.33													659	20000	6.33	TON	COMMERCIAL FERTILIZER
9.37													659	31000	9.37	ACRE	LIME
251													659	35000	251	MGAL	WATER
													670	00520	4,167	SY	SLOPE EROSION PROTECTION MAT, TYPE B
													670	00720	484	SY	DITCH EROSION PROTECTION MAT, TYPE B

CALCULATED  
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LOCATION 1D SUB-SUMMARY

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LOCATION 1D SHEET TOTALS											ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION
69	70	73	158	160	161	343	364	365	366	367					
											<b>DRAINAGE</b>				
							578				202	35100	578	FT	PIPE REMOVED, 24" AND UNDER
							119				202	35200	119	FT	PIPE REMOVED, OVER 24"
							1				202	58100	1	EACH	CATCH BASIN REMOVED
						2		2			602	20000	4	CY	CONCRETE MASONRY
50									100	100	605	13300	250	FT	6" UNCLASSIFIED PIPE UNDERDRAINS
									16,517	16,517	605	14000	33,034	FT	6" BASE PIPE UNDERDRAINS
50											605	31100	50	FT	AGGREGATE DRAINS
50											611	00100	50	FT	4" CONDUIT, TYPE B
100											611	00900	100	FT	6" CONDUIT, TYPE B
									343	336	611	00510	679	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS
50											611	01400	50	FT	6" CONDUIT, TYPE E
100											611	01500	100	FT	6" CONDUIT, TYPE F
								140			611	05700	140	FT	15" CONDUIT, TYPE A
						149					611	06400	149	FT	15" CONDUIT, TYPE D
								146			611	07200	146	FT	18" CONDUIT, TYPE A
								186			611	10400	186	FT	24" CONDUIT, TYPE B
								120			611	13200	120	FT	30" CONDUIT, TYPE A
								1			611	98470	1	EACH	CATCH BASIN, NO. 2-2B
								5			611	98630	5	EACH	CATCH BASIN ADJUSTED TO GRADE
5									14	13	611	99710	32	EACH	PRECAST REINFORCED CONCRETE OUTLET
											<b>PAVEMENT</b>				
	400										252	01500	400	FT	FULL DEPTH PAVEMENT SAWING
		100									253	01000	100	CY	PAVEMENT REPAIR
		3,500									254	01000	3,500	SY	PAVEMENT PLANING, ASPHALT CONCRETE , 1.25"
					549						254	01000	549	SY	PAVEMENT PLANING, ASPHALT CONCRETE , VARIABLE (5.00" MAX)
			11,019	11,148	177						301	46000	22,344	CY	ASPHALT CONCRETE BASE, PG64-22
						196					301	48000	196	CY	ASPHALT CONCRETE BASE, PG64-22 (DRIVEWAYS)
			11,165	11,302	127						304	20000	22,594	CY	AGGREGATE BASE
		280	6,554	6,627	143	98					407	20000	13,702	GAL	NON-TRACKING TACK COAT
		250	1,477	1,477							408	10001	3,204	GAL	PRIME COAT, AS PER PLAN
						129					411	10000	129	CY	STABILIZED CRUSHED AGGREGATE
		125			45	57					441	50000	227	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22
			5,462	4,600							442	00100	10,062	CY	ANTI-SEGREGATION EQUIPMENT
			2,731	2,762							442	10000	5,493	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)
			2,731	2,762							442	10101	5,493	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN (PG64-22/PG64-28)
						65					452	10010	65	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P (DRIVEWAYS)
						230					452	12010	230	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P (DRIVEWAYS)
		25	206	206							617	10101	437	CY	COMPACTED AGGREGATE, AS PER PLAN

CALCULATED PTB CHECKED JSL  
**LOCATION 1D SUB-SUMMARY**  
**LIC-40-0.00**  
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LOCATION TOTALS					PLAN SPLITS					ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
LOC. 1A	LOC. 1B	LOC. 1C	LOC. 1D	LOC. 1D SCHOOL	01/S>2/ PV/REYN	02/S>2/ PV	03/S>2/ PV	04/STR/ PV	05/STR/ OT/SLSD						
														<b>ROADWAY</b>	
							LS	LS		201	11000	LS	LS	CLEARING AND GRUBBING	
		51,578	117,989				51,578	117,989		202	23000	169,567	SY	PAVEMENT REMOVED	
			232					232		202	23001	232	SY	PAVEMENT REMOVED, AS PER PLAN	
1,092	2,760				1,092	2,760				202	23500	3,852	SY	WEARING COURSE REMOVED	
			33					33		202	32000	33	FT	CURB REMOVED	
		2,859	4,882				2,859	4,882		202	38000	7,741	FT	GUARDRAIL REMOVED	
			1					1		202	98100	1	EACH	REMOVAL MISC.: PRIVATE SIGN AND LANDSCAPING	68
		12,194	21,181	186			12,194	21,181	186	203	10000	33,561	CY	EXCAVATION	
		4,852	5,874				4,852	5,874		203	20000	10,726	CY	EMBANKMENT	
		305	2,528				305	2,528		204	10000	2,833	SY	SUBGRADE COMPACTION	
			18,112					18,112		204	20000	18,112	CY	EMBANKMENT	
		31	68	2			31	68	2	204	45000	101	HOUR	PROOF ROLLING	
		1,722	4,003	48			1,722	4,003	48	206	10500	5,773	TON	CEMENT	
		57,008	132,528	1,543			57,008	132,528	1,543	206	11000	191,079	SY	CURING COAT	
		57,008	132,528	1,543			57,008	132,528	1,543	206	15020	191,079	SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP	
							LS	LS		206	30000		LS	MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS	
		3,537.5	6,525.0				3,537.5	6,525.0		606	15050	10,062.5	FT	GUARDRAIL, TYPE MGS	
		4	10				4	10		606	26150	14	EACH	ANCHOR ASSEMBLY, MGS TYPE E (NCHRP 350/MASH 2016)	
		4	20				4	20		606	26500	24	EACH	ANCHOR ASSEMBLY, TYPE T	
				166					166	609	26001	166	FT	CURB, TYPE 6, AS PER PLAN	65
		41	84				41	84		626	00110	125	EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)	
		1	25				1	25		SPECIAL	69050100	26	EACH	MAILBOX SUPPORT SYSTEM, SINGLE	71
			18					18		SPECIAL	69050200	18	EACH	MAILBOX SUPPORT SYSTEM, DOUBLE	71
		2	78				2	78		SPECIAL	69050350	80	EACH	MAILBOX REMOVED AND RESET	71
							LS	LS		878	25000	LS	LS	INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
														<b>EROSION CONTROL</b>	
		9	55				9	55		601	21050	64	SY	TIED CONCRETE BLOCK MAT WITH TYPE 1 UNDERLAYMENT	
		2,043	518	4			2,043	518	4	653	10001	2,565	CY	TOPSOIL FURNISHED AND PLACED, AS PER PLAN	68
		2	2				2	2		659	00100	4	EACH	SOIL ANALYSIS TEST	
		47,223	45,288				47,223	45,288		659	00510	92,511	SY	SEEDING AND MULCHING, CLASS 2	
		2,361	2,268				2,361	2,268		659	14000	4,629	SY	REPAIR SEEDING AND MULCHING	
		2,361	2,268				2,361	2,268		659	15000	4,629	SY	INTER-SEEDING	
		6.59	6.33				6.59	6.33		659	20000	12.92	TON	COMMERCIAL FERTILIZER	
		9.76	9.37				9.76	9.37		659	31000	19.13	ACRE	LIME	
		261	251				261	251		659	35000	512	MGAL	WATER	
			4,167					4,167		670	00520	4,167	SY	SLOPE EROSION PROTECTION MAT, TYPE B	
		4,119	484				4,119	484		670	00720	4,603	SY	DITCH EROSION PROTECTION MAT, TYPE B	
							LS	LS		832	15000	LS	LS	STORM WATER POLLUTION PREVENTION PLAN	
							LS	LS		832	15002	LS	LS	STORM WATER POLLUTION PREVENTION INSPECTIONS	
							LS	LS		832	15010	LS	LS	STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE	
							250,000	250,000		832	30000	500,000	EACH	EROSION CONTROL	

CALCULATED	PTB	CHECKED	JSL
GENERAL SUMMARY			
LIC-40-0.00			
46		442	

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LOCATION TOTALS					PLAN SPLITS					ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET
LOC. 1A	LOC. 1B	LOC. 1C	LOC. 1D	LOC. 1D SCHOOL	01/S>2/PV/REYN	02/S>2/PV	03/S>2/PV	04/STR/PV	05/STR/OT/SLSD						
			400					400		252	01500	400	FT	PAVEMENT FULL DEPTH PAVEMENT SAWING	
50	100	100	100		50	100	100	100		253	02000	350	CY	PAVEMENT REPAIR	
		3,500	3,500				3,500	3,500		254	01000	7,000	SY	PAVEMENT PLANING, ASPHALT CONCRETE , 1.25"	
59,495	150,063				59,495	150,063				254	01000	209,558	SY	PAVEMENT PLANING, ASPHALT CONCRETE , 3.00"	
		5,156					5,156			254	01000	5,156	SY	PAVEMENT PLANING, ASPHALT CONCRETE , VARIABLE (3.00" MAX)	
		394	549				394	549		254	01000	943	SY	PAVEMENT PLANING, ASPHALT CONCRETE , VARIABLE (5.00" MAX)	
		9,819	22,344	283			9,819	22,344	283	301	46000	32,446	CY	ASPHALT CONCRETE BASE, PG64-22	
		19	196				19	196		301	48000	215	CY	ASPHALT CONCRETE BASE, PG64-22 (DRIVEWAYS)	
		9,902	22,594	259			9,902	22,594	259	304	20000	32,755	CY	AGGREGATE BASE	
7,825	19,733	6,561	13,702	155	7,825	19,733	6,561	13,702	155	407	20000	47,976	GAL	NON-TRACKING TACK COAT	
1,517	2,986	1,615	3,204		1,517	2,986	1,615	3,204		408	10001	9,322	GAL	PRIME COAT, AS PER PLAN	2
		34	129				34	129		411	10000	163	CY	STABILIZED CRUSHED AGGREGATE	
39	97	167	227	18	39	97	167	227	18	441	50000	548	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22	
4,143	10,315	4,186	10,062	87	4,143	10,315	4,186	10,062	87	442	00100	28,793	CY	ANTI-SEGREGATION EQUIPMENT	
2,481	6,255	2,567	5,493	44	2,481	6,255	2,567	5,493	44	442	10000	16,840	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446)	
2,481	6,255	2,567	5,493	44	2,481	6,255	2,567	5,493	44	442	10101	16,840	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446), AS PER PLAN (PG64-22/PG64-28)	3
			65					65		452	10010	65	SY	6" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P (DRIVEWAYS)	
			230					230		452	12010	230	SY	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC 1P (DRIVEWAYS)	
212	415	215	437		212	415	215	437		617	10101	1,279	CY	COMPACTED AGGREGATE, AS PER PLAN	2

CALCULATED	PTB	CHECKED	JSL
<b>GENERAL SUMMARY</b>			
<b>LIC-40-0.00</b>			
48 442			

**ITEM 614, DETOUR SIGNING, AS PER PLAN**

THE CONTRACTOR SHALL SUPPLY, ERECT, MAINTAIN, AND REMOVE ALL DETOUR SIGNING AS SHOWN IN THE PLANS.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIAL AND INCIDENTALS TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING, AS PER PLAN.

**ITEM 614, REPLACEMENT DRUM**

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

**ITEM 614, REPLACEMENT DRUM**  
LOCATION 1C: 50 EACH  
LOCATION 1D: 10 EACH

**ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (BIDIRECTIONAL)**

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

**ANCHORED IMPACT ATTENUATORS SHALL NOT BE INSTALLED ON FINAL SURFACE COURSE**

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

**ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B, AS PER PLAN**

IN ADDITION TO THE PAVEMENT BUILDUPS SHOWN IN CMS 615.05, THE FOLLOWING ASPHALT BUILDUP MAY ALSO BE USED, AS DIRECTED BY THE ENGINEER:

- ITEM 441, 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE I, (448), PG64-22
- ITEM 407, NON-TRACKING TACK COAT (APPLIED AT A RATE OF 0.05 GAL./ SQ. YD.)
- ITEM 301, \*\*7.5" ASPHALT CONCRETE BASE, PG64-22

**\*\* THICKNESS MAY BE REDUCED TO 6" AT LOCATIONS NOT UNDER LIVE TRAFFIC**

THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE DRIVING SURFACE THROUGHOUT THE USE OF THE PAVEMENT.

PAYMENT SHALL BE MADE AT THE UNIT PRICE BID AND INCLUDE ALL LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO COMPLETE THE ITEM.

**ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM**

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON STANDARD DRAWING MT-100.00. THE CONTRACTOR SHALL ARRANGE AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.04, ARE WAIVED AND USED MATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE AND SHOULD BE LOCATED AT LEAST 30 FEET (PREFERABLY 40 FEET) FROM THE EDGE OF PAVEMENT WHEN POSSIBLE. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED.

**ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM**  
LOCATION 1C: 1 EACH

**DESIGNATED LOCAL DETOUR ROUTE**

IN ADDITION TO THE OFFICIAL STATE SIGNED DETOUR ROUTE, LOCAL ROUTES HAVE BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THE ROUTES SHOWN ON SHEETS 78 AND 81. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE LOCATION SUB-SUMMARIES FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTES SHOWN IN THE PLANS.

**ITEM 253, PAVEMENT REPAIR**  
LOCATION 1C: 100 CU. YD.  
LOCATION 1D: 100 CU. YD.

**ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, 1.25"**  
LOCATION 1C: 3,500 SQ. YD.  
LOCATION 1D: 3,500 SQ. YD.

**ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG 64-22**  
LOCATION 1C: 125 CU. YD.  
LOCATION 1D: 125 CU. YD.

**ITEM 407, NON-TRACKING TACK COAT**  
LOCATION 1C: 280 GAL.  
LOCATION 1D: 280 GAL.

**ITEM 408, PRIME COAT, AS PER PLAN**  
LOCATION 1C: 250 GAL.  
LOCATION 1D: 250 GAL.

**ITEM 617, COMPACTED AGGREGATE, AS PER PLAN**  
LOCATION 1C: 25 CU. YD.  
LOCATION 1D: 25 CU. YD.

**ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT**  
LOCATION 1C: 2.0 MILE  
LOCATION 1D: 2.0 MILE

**ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT**  
LOCATION 1C: 25 FEET  
LOCATION 1D: 25 FEET

CALCULATED  
LIME  
CHECKED  
JSL

MAINTENANCE OF TRAFFIC NOTES (FULL DEPTH)

LIC-40-0.00



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Location (Station to Station)  Sta. 3081+57.84 (WB PGL) = Sta. 1081+50 (CL)	Side	Length (L)	Pavement Width (W)	Pavement Area (A)  (* - Area by Computer  See Sheet 336A	204	206			254	301		304		407		408	442			617	
					PROOF ROLLING A/2000	CEMENT (A*60.375)/2000	CURING COAT =A	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP =A	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE (3" MAX)	D=6.00" ASPHALT CONCRETE BASE, PG64-22 A*(D/36)	D=6.00" STEP=4" ASPHALT CONCRETE BASE, PG64-22 (STEP ONLY) (L/3)*(STEP/36)*(D/36)	ASPHALT CONCRETE BASE, PG64-22, VARIABLE DEPTH (6" MAX)	D=6.00" AGGREGATE BASE A*(D/36)	D=6.00" STEP=10" AGGREGATE BASE (STEP ONLY) (L/3)*(STEP/36)*(D/36)	NON-TRACKING TACK COAT (FOR INTERMEDIATE COURSE) A*0.05	NON-TRACKING TACK COAT (FOR SURFACE COURSE) A*0.05	PRIME COAT, AS PER PLAN (0.40 GAL/SY) (L*2)/9*0.40	ANTI-SEGREGATION EQUIPMENT	D=1.50" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446), APP A*(D/36)	D=1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) A*(D/36)	D=2.00" COMPACTED AGGREGATE, AS PER PLAN (2*WIDTH) (L*2)/9*(D/36)
					Lin. Ft.	Ft.	Sq. Yd.	HOURL	TON	SY	SY	SY	CY	CY	CY	CY	CY	GAL	GAL	GAL	CY
<b>Phase 1 Split 03/S&gt;2/PV</b>																					
<b>U.S. 40 Mainline</b>																					
3016+58.49 to 3081+57.84	Cl.	6,499.35	24.0	17,331.7	8.67	523.2	17,331.7	17,331.7													
1081+50.00 to 1093+36.00	Lt.	1,186.00	37.6 (Avg.)	4,956.2	2.48	149.6	4,956.2	4,956.2													
<b>U.S. 40 Shoulders</b>																					
3016+58.49 to 3044+85.85	Lt.	2,827.36	4.0	1,256.7	0.63	37.9	1,256.7	1,256.7													
3044+85.85 to 3046+10.85	Lt.	125.00	6.5 (Avg.)	90.3	0.05	2.7	90.3	90.3													
3016+58.49 to 3045+34.85	Rt.	2,876.36	4.0	1,278.4	0.64	38.6	1,278.4	1,278.4													
3051+25.89 to 3081+57.84	Lt.	3,031.95	4.0	1,347.6	0.68	40.7	1,347.6	1,347.6													
3052+15.00 to 3081+57.84	Rt.	2,942.84	4.0	1,308.0	0.66	39.5	1,308.0	1,308.0													
1081+50.00 to 1092+12.62	Lt.	1,062.62	4.0	472.3	0.24	14.3	472.3	472.3													
<b>Extra Areas</b>																					
<b>S.R. 310 Intersection Area</b>																					
3046+75.91 to 3047+25.91	Rt.	50.00	20.0	111.2	0.06	3.4	111.2	111.2													
<b>Westbound Right Turn Lane to S.R. 310</b>																					
3046+10.85 to 3051+25.89	Lt.	515.04		927.0 (*)				927.0			14.8										
<b>Westbound Left Turn Lane to S.R. 310</b>																					
3047+25.91 to 3052+15.00	Rt.	489.09		1,613.6 (*)				1,613.6													
<b>Westbound Left Turn Taper for S.R. 310</b>																					
3052+15.00 to 3053+00.00	Rt.	85.00		116.2 (*)	0.06	3.5	116.2	116.2													
<b>Subtotals</b>					14.17	853.4	28,268.6	28,268.6	2,540.6	4,711.9	79.7	14.9	4,711.9	198.8	1,541.1	1,541.1	683.3	2,088.8	1,284.3	1,284.3	95.0
<b>Totals Carried to Location 1c (Full Depth) Summary</b>					15	854	28,269	28,269	2,541	4,807		4,911		3,083		684	2,089	1,285	1,285	95	

CALCULATED BY: PTB  
 CHECKED BY: JSL  
**PAVEMENT CALCULATIONS (FULL DEPTH)**  
**LIC-40-0.00**  
 157  
 442

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Location (Station to Station)  Sta. 3081+57.84 (WB PGL) = Sta. 1081+50 (CL)	Side	Length (L)	Pavement Width (W)	Pavement Area (A)  (* - Area by Computer	204	206			254	301			304		407		408	442			617	
					PROOF ROLLING A/2000	CEMENT (A*60.375)/2000	CURING COAT =A	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP =A	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE (3" MAX)	D=6.00" ASPHALT CONCRETE BASE, PG64-22 A*(D/36)	D=6.00" STEP=4" ASPHALT CONCRETE BASE, PG64-22 (STEP ONLY) (L/3)*(STEP/36)*(D/36)	ASPHALT CONCRETE BASE, PG64-22, VARIABLE DEPTH (6" MAX)	D=6.00" AGGREGATE BASE A*(D/36)	D=6.00" STEP=10" AGGREGATE BASE (STEP ONLY) (L/3)*(STEP/36)*(D/36)	NON-TRACKING TACK COAT (FOR INTERMEDIATE COURSE) A*0.05	NON-TRACKING TACK COAT (FOR SURFACE COURSE) A*0.05	PRIME COAT, AS PER PLAN (0.40 GAL/SY) (L*2)/9*0.40	ANTI-SEGREGATION EQUIPMENT	D=1.50" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446), APP A*(D/36)	D=1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) A*(D/36)	D=2.00" COMPACTED AGGREGATE, AS PER PLAN (2*WIDTH) (L*2)/9*(D/36)	
					HOURL	TON	SY	SY	SY	CY	CY	CY	CY	CY	GAL	GAL	GAL	CY	CY	CY	CY	
Lin. Ft.	Ft.	Sq. Yd.	204	206	254	301	304	407	408	442	617											
<b>Phase 1 Split 04/S&gt;2/PV</b>																						
<b>U.S. 40 Mainline</b>																						
1093+36.00 to 1094+89.43	Lt.	153.43	30.9 (Avg.)	526.1	0.27	15.9	526.1	526.1														
1094+89.43 to 1256+93.59	Lt.	16,204.16	30.0	54,013.9	27.01	1,630.5	54,013.9	54,013.9														
1256+93.59 to 1259+50.00	Lt.	256.41	26.9 (Avg.)	766.4	0.39	23.1	766.4	766.4														
<b>U.S. 40 Shoulders</b>																						
1097+46.50 to 1106+78.00	Lt.	931.50	4.0	414.0	0.21	12.5	414.0	414.0														
1108+26.00 to 1111+91.00	Lt.	365.00	4.0	162.3	0.09	4.9	162.3	162.3														
1111+91.00 to 1112+41.00	Lt.	50.00	5.0 (Avg.)	27.8	0.02	0.8	27.8	27.8														
1112+41.00 to 1146+54.74	Lt.	3,413.74	6.0	2,275.9	1.14	68.7	2,275.9	2,275.9														
1147+94.63 to 1200+76.42	Lt.	5,281.79	6.0	3,521.2	1.77	106.3	3,521.2	3,521.2														
1202+31.89 to 1259+00.00	Lt.	5,668.11	6.0	3,778.8	1.89	114.1	3,778.8	3,778.8														
1259+00.00 to 1259+50.00	Lt.	50.00	6.8 (Avg.)	37.5	0.02	1.1	37.5	37.5														
<b>Subtotals</b>					<b>32.81</b>	<b>1,978.1</b>	<b>65,523.9</b>	<b>65,523.9</b>		<b>10,921.1</b>	<b>97.7</b>		<b>10,921.1</b>	<b>243.5</b>	<b>3,276.6</b>	<b>3,276.6</b>	<b>1,476.9</b>	<b>5,461.4</b>	<b>2,730.7</b>	<b>2,730.7</b>	<b>205.2</b>	
<b>Totals Carried to Location 1d (Full Depth) Summary</b>					<b>33</b>	<b>1,979</b>	<b>65,524</b>	<b>65,524</b>		<b>11,019</b>			<b>11,165</b>		<b>6,554</b>		<b>1,477</b>	<b>5,462</b>	<b>2,731</b>	<b>2,731</b>	<b>206</b>	
<b>Phase 1 Split 07/STR/OT/SLSD</b>																						
<b>U.S. 40 Right Turn Lane @ Smoke Rd.</b>																						
1093+36.00 to 1096+96.50	Lt.	360.50	12.0	480.7	0.25	14.5	480.7	480.7														
1096+96.50 to 1097+46.50	Lt.	50.00	6.0 (Avg.)	33.4	0.02	1.0	33.4	33.4														
<b>U.S. 40 Right Turn Lane @ School Dr.</b>																						
1108+26.00 to 1111+91.00	Lt.	365.00	12.0	486.7	0.25	14.7	486.7	486.7														
1111+91.00 to 1112+41.00	Lt.	50.00	6.0 (Avg.)	33.4	0.02	1.0	33.4	33.4														
<b>Subtotals</b>					<b>0.54</b>	<b>31.3</b>	<b>1,034.2</b>	<b>1,034.2</b>		<b>172.6</b>			<b>172.6</b>		<b>51.9</b>	<b>51.9</b>		<b>86.4</b>	<b>43.2</b>	<b>43.2</b>		
<b>Totals Carried to Location 1d (School) Summary</b>					<b>1</b>	<b>32</b>	<b>1,035</b>	<b>1,035</b>		<b>173</b>			<b>173</b>		<b>104</b>			<b>87</b>	<b>44</b>	<b>44</b>		

PAVEMENT CALCULATIONS (FULL DEPTH)

CALCULATED  
PTB  
CHECKED  
JSL

LIC-40-0.00

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Location (Station to Station)  Sta. 2081+41.81 (EB PGL) = Sta. 1081+50 (CL)	Side	Length (L)  Lin. Ft.	Pavement Width (W)  Ft.	Pavement Area (A) (* - Area by Computer  See Sheet 336A  Sq. Yd.	204	206			254	301			304		407		408	442			617
					PROOF ROLLING A/2000  HOUR	CEMENT (A*60.375)/2000  TON	CURING COAT =A  SY	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP =A  SY	PAVEMENT PLANING, ASPHALT CONCRETE, VARIABLE (3" MAX)  SY	D=6.00" ASPHALT CONCRETE BASE, PG64-22 A*(D/36)  CY	D=6.00" STEP=4" ASPHALT CONCRETE BASE, PG64-22 (STEP ONLY) (L/3)*(STEP/36)*(D/36)  CY	ASPHALT CONCRETE BASE, PG64-22, VARIABLE DEPTH (6" MAX)  CY	D=6.00" AGGREGATE BASE A*(D/36)  CY	D=6.00" STEP=10" AGGREGATE BASE (STEP ONLY) (L/3)*(STEP/36)*(D/36)  CY	NON-TRACKING TACK COAT (FOR INTERMEDIATE COURSE) A*0.05  GAL	NON-TRACKING TACK COAT (FOR SURFACE COURSE) A*0.05  GAL	PRIME COAT, AS PER PLAN (0.40 GAL/SY) (L*2)/9*0.40  GAL	ANTI-SEGREGATION EQUIPMENT  CY	D=1.50" ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446), APP A*(D/36)  CY	D=1.50" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) A*(D/36)  CY	D=2.00" COMPACTED AGGREGATE, AS PER PLAN (2*WIDTH) (L*2)/9*(D/36)  CY
<b>Phase 2 Split 03/S&gt;2/PV</b>																					
<b>U.S. 40 Mainline</b>																					
2016+69.16 to 2081+41.81	Cl.	6,472.65	24.0	17,260.4	8.64	521.0	17,260.4	17,260.4													
1081+50.00 to 1093+36.00	Rt.	1,186.00	36.9 (Avg.)	4,857.4	2.43	146.6	4,857.4	4,857.4													
<b>U.S. 40 Shoulders</b>																					
2016+69.16 to 2041+20.00	Lt.	2,450.84	4.0	1,089.3	0.55	32.9	1,089.3	1,089.3													
2016+69.16 to 2041+86.38	Rt.	2,517.22	4.0	1,118.8	0.56	33.8	1,118.8	1,118.8													
2048+23.74 to 2048+73.74	Rt.	50.00	5.0 (Avg.)	27.8	0.02	0.8	27.8	27.8													
2048+73.74 to 2081+41.81	Rt.	3,268.07	4.0	1,452.5	0.73	43.8	1,452.5	1,452.5													
2051+08.74 to 2081+41.81	Lt.	3,033.07	4.0	1,348.1	0.68	40.7	1,348.1	1,348.1													
1081+41.81 to 1093+03.50	Rt.	1,161.69	4.0	516.4	0.26	15.6	516.4	516.4													
1093+03.50 to 1093+36.00	Rt.	32.50	6.0	21.7	0.02	0.7	21.7	21.7													
<b>Extra Areas</b>																					
<b>Eastbound Left Turn Lane to S.R. 310</b>																					
2041+20.00 to 2046+73.75	Lt.	553.75		1,380.3 (*)				1,380.3				59.3			69.1	69.1			115.2	57.6	57.6
<b>Eastbound Right Turn Lane to S.R. 310</b>																					
2041+86.38 to 2048+23.74	Rt.	637.36		1,234.4 (*)				1,234.4				29.6			61.8	61.8			103.0	51.5	51.5
<b>S.R. 310 Intersection Area</b>																					
2046+73.75 to 2047+23.75	Lt.	50.00	20.0	111.2	0.06	3.4	111.2	111.2				18.6			5.6	5.6			9.4	4.7	4.7
<b>Median Fill In</b>																					
2048+77.67 to 2051+08.74	Lt.	231.07		313.6 (*)	0.16	9.5	313.6	313.6				52.3			15.7	15.7			26.2	13.1	13.1
<b>Subtotals</b>					14.11	848.8	28,117.3	28,117.3	2,614.8	4,686.7	77.7	88.9	4,686.7	193.6	1,537.3	1,537.3	680.9	2,097.0	1,281.2	1,281.2	94.7
<b>Totals Carried to Location 1c (Full Depth) Summary</b>					15	849	28,118	28,118	2,615	4,854			4,881		3,075		681	2,097	1,282	1,282	95

PAVEMENT CALCULATIONS (FULL DEPTH)

CALCULATED  
PTB  
CHECKED  
JSL

LIC-40-0.00

Location (Station to Station)  Sta. 2081+41.81 (EB PGL) = Sta. 1081+50 (CL)	Side	Length (L)	Pavement Width (W)	Pavement Area (A)  (* ) - Area by Computer	204		206			301			304		407		408	442			617
					D=15.00"	PROOF ROLLING A/2000	CEMENT (A*60.375)/2000	CURING COAT =A	CEMENT STABILIZED SUBGRADE, 14 INCHES DEEP =A	D=6.00"	D=6.00"	AGGREGATE BASE A*(D/36)	D=6.00"	NON-TRACKING TACK COAT (FOR INTERMEDIATE COURSE) A*0.05	NON-TRACKING TACK COAT (FOR SURFACE COURSE) A*0.05	PRIME COAT, AS PER PLAN (0.40 GAL/SY) (L*2)/9*0.40	ANTI-SEGREGATION EQUIPMENT	D=1.50"	D=1.50"	D=2.00"	
					EMBANKMENT L*24/9*(D/36)					ASPHALT CONCRETE BASE, PG64-22 A*(D/36)	STEP=4"		ASPHALT CONCRETE BASE, PG64-22 (STEP ONLY) (L/3)*(STEP/36)*(D/36)					AGGREGATE BASE (STEP ONLY) (L/3)*(STEP/36)*(D/36)	ASPHALT CONCRETE INTERMEDIATE COURSE, 19MM, TYPE A (446), APP A*(D/36)	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446) A*(D/36)	COMPACTED AGGREGATE, AS PER PLAN (2' WIDTH) (L*2)/9*(D/36)
Lin. Ft.	Ft.	Sq. Yd.	CY	HOUR	TON	SY	SY	CY	CY	CY	CY	CY	GAL	GAL	GAL	CY	CY	CY	CY		
<b>Phase 2 Split 04/S&gt;2/PV</b>																					
<b>U.S. 40 Mainline</b>																					
1093+36.00 to 1094+89.43	Rt.	153.43	30.1 (Avg.)	513.4		0.26	15.5	513.4	513.4	85.6			85.6		25.7	25.7	13.7	42.8	21.4	21.4	1.9
1094+89.43 to 1096+50.00	Rt.	160.57	30.0	535.3		0.27	16.2	535.3	535.3	89.3			89.3		26.8	26.8	14.3	44.8	22.4	22.4	2.0
1096+50.00 to 1255+33.47	Rt.	15,883.47	30.0	52,944.9	17,648.3	26.48	1,598.3	52,944.9	52,944.9	8,824.2			8,824.2		2,647.3	2,647.3	1,411.9	4,412.2	2,206.1	2,206.1	196.1
1255+33.47 to 1259+50.00	Rt.	416.53	25.8 (Avg.)	1,191.8	462.9	0.60	36.0	1,191.8	1,191.8	198.7			198.7		59.6	59.6	37.1	99.4	49.7	49.7	5.2
<b>U.S. 40 Shoulders</b>																					
1093+36.00 to 1259+00.00	Rt.	16,564.00	6.0	11,042.7		5.53	333.4	11,042.7	11,042.7	1,840.5	102.3		1,840.5	255.7	552.2	552.2			460.2	460.2	
1259+00.00 to 1259+50.00	Rt.	50.00	6.8 (Avg.)	37.5		0.02	1.1	37.5	37.5	6.3	0.4		6.3	0.8	1.9	1.9			1.6	1.6	
<b>Subtotals</b>					<b>18,111.2</b>	<b>33.16</b>	<b>2,000.4</b>	<b>66,265.6</b>	<b>66,265.6</b>	<b>11,044.6</b>	<b>102.7</b>		<b>11,044.6</b>	<b>256.5</b>	<b>3,313.5</b>	<b>3,313.5</b>	<b>1,477.0</b>	<b>4,599.2</b>	<b>2,761.4</b>	<b>2,761.4</b>	<b>205.2</b>
<b>Totals Carried to Location 1d (Full Depth) Summary</b>					<b>18,112</b>	<b>34</b>	<b>2,001</b>	<b>66,266</b>	<b>66,266</b>	<b>11,148</b>			<b>11,302</b>		<b>6,627</b>		<b>1,477</b>	<b>4,600</b>	<b>2,762</b>	<b>2,762</b>	<b>206</b>

**PAVEMENT CALCULATIONS (FULL DEPTH)**

CALCULATED  
PTB  
CHECKED  
JSL

LIC-40-0.00

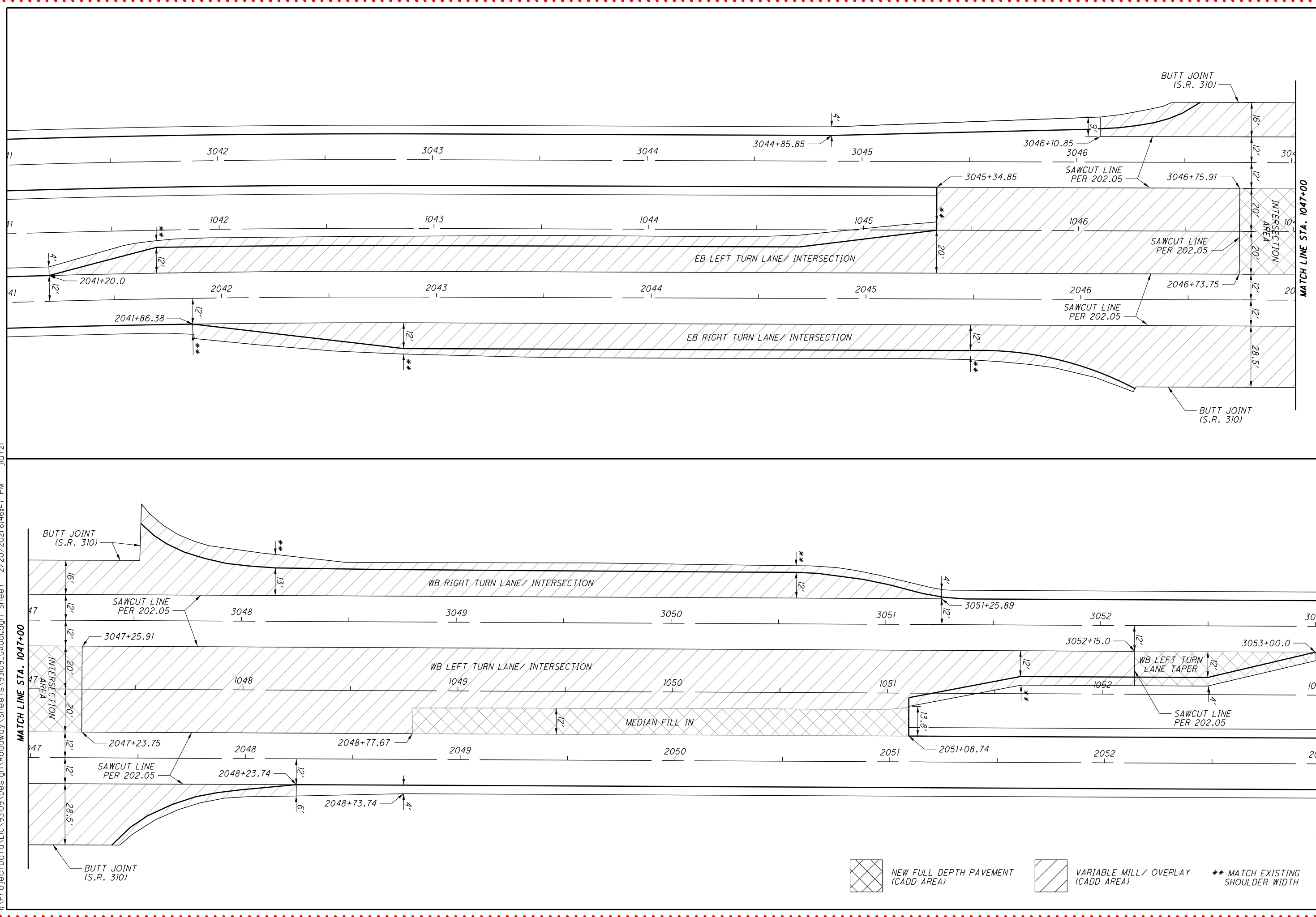


CALCULATED  
PTB  
CHECKED  
JSL

PAVEMENT DETAIL - U.S. 40/ S.R. 310  
STA. 1041+00 TO STA. 1053+00

LIC-40-0.00

336A  
442



NEW FULL DEPTH PAVEMENT (CADD AREA)

VARIABLE MILL / OVERLAY (CADD AREA)

\*\* MATCH EXISTING SHOULDER WIDTH

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