



CALCULATIONS

Project: 2021-4003
PID 110560
HIG-72-5.79

Submittal: Final
Date: Jun 22, 2022
By: ATD
Checked: CLP

Pavement Calculations

Item	Quantity	Unit
TOTAL ITEM 202 - Pavement Removed,	751	SQ YD
TOTAL ITEM 204 - Subgrade Compaction,	442	SQ YD
TOTAL ITEM 254 - Pavement Planing, Asphalt Concrete (3" Depth),	328	SQ YD
TOTAL ITEM 301 - Asphalt Concrete Base, PG64-22, (449),	86	CU YD
TOTAL ITEM 304 - Aggregate Base,	111	CU YD
TOTAL ITEM 407 - Non-Tracking Tack Coat,	94	GAL
TOTAL ITEM 441 - Asphalt Surface Course, Type 1, (449) PG64-22,	50	CU YD
TOTAL ITEM 441 - Asphalt Concrete Intermediate Course, Type 1, (449),	7	CU YD
TOTAL ITEM 605 - Aggregate Drains,	84	FT



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LOCATION STA TO STA	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVERAGE WIDTH FEET	ROUTE	ITEM 202 PAVEMENT REMOVED		
							DESCRIPTION	SUBTOTAL	UNIT
305+65.00 to 306+90	L/R	124.80	27.00	30.00	28.50	72		395.20	SY
306+90.00 to 307+05	L/R	15.00	10.00	12.00	11.00	72		18.33	SY
307+84.00 to 307+99	L/R	15.00	9.00	8.00	8.50	72		14.17	SY
307+99 to 309+05	L/R	106.00	28.00	25.00	26.50	72		312.11	SY
305+50 to 305+65	R	15.00	2.00	2.00	2.00	72		3.33	SY
309+05 to 309+50	L/R	45.00	1.50	1.50	1.50	72		7.50	SY
TOTAL ITEM 202 - Pavement Removed,								751	SQ YD

*CADD Calculated area.

LOCATION STA TO STA	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	STEP WIDTH FEET	AVG WIDTH FEET	ROUTE	ITEM 204 SUBGRADE COMPACTION		
								DESCRIPTION	SUBTOTAL	UNIT
305+65.00 to 306+20.00	L/R	55.00	4.00	5.00	3.0	7.50	72		45.83	SY
306+20.00 to 306+88.28	L/R	68.28	24.00	24.00	3.0	27.00	72		204.84	SY
308+01.73 to 308+50.00	L/R	48.27	24.00	24.00	3.0	27.00	72		144.81	SY
308+50.00 to 309+05	L/R	55.00	5.00	4.00	3.0	7.50	72		45.83	SY
TOTAL ITEM 204 - Subgrade Compaction,								442	SQ YD	

*CADD Calculated area.

LOCATION STA TO STA	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVG WIDTH FEET	ROUTE	ITEM 254 PAVEMENT PLANING		
							DESCRIPTION	SUBTOTAL	UNIT
305+65 to 306+20	L/R	55.00	19.00	19.00	19.00	72	Planing and Overlay	116.11	SY
308+50 to 309+50	L/R	100.00	19.00	19.00	19.00	72	Planing and Overlay	211.11	SY
TOTAL ITEM 254 - Pavement Planing, Asphalt Concrete (3" Depth),								328	SQ YD

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LOCATION STA TO STA	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	STEP WIDTH INCH	AVG W FEET	T INCH	ROUTE	ITEM 301 ASPHALT CONCRETE BASE, PG64-22		
									DESCRIPTION	SUBTOTAL	UNIT
305+65.00 to 306+20.00	L/R	55.00	4.00	5.00	8.0	5.17	8	72		7.02	CY
306+20.00 to 306+88.28	L/R	68.28	24.00	24.00	8.0	24.67	8	72		41.59	CY
308+01.73 to 308+50.00	L/R	48.27	24.00	24.00	8.0	24.67	8	72		29.40	CY
308+50.00 to 309+05	L/R	55.00	5.00	4.00	8.0	5.17	8	72		7.02	CY
TOTAL ITEM 301 - Asphalt Concrete Base, PG64-22, (449),										86	CU YD

*CADD Calculated area.

LOCATION STA TO STA	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	STEP WIDTH INCH	AVG W FEET	T INCH	ROUTE	ITEM 304 AGGREGATE BASE		
									DESCRIPTION	SUBTOTAL	UNIT
305+65.00 to 306+20.00	L/R	55.00	4.00	5.00	24.0	6.50	6	72	Pvmt Buildup	6.62	CY
306+20.00 to 306+88.28	L/R	68.28	24.00	24.00	24.0	26.00	6	72	Pvmt Buildup	32.88	CY
308+01.73 to 308+50	L/R	48.27	24.00	24.00	24.0	26.00	6	72	Pvmt Buildup	23.24	CY
308+50.00 to 309+05	L/R	55.00	5.00	4.00	24.0	6.50	6	72	Pvmt Buildup	6.62	CY
305+65.00 to 306+20.00	L/R	55.00	3.50	8.00	0.0	5.75	8	72	Aggregate Shoulder	7.81	CY
306+20.00 to 306+88.28	L/R	68.28	8.00	8.00	0.0	8.00	8	72	Aggregate Shoulder	13.49	CY
308+01.73 to 308+50	L/R	48.27	8.00	8.00	0.0	8.00	8	72	Aggregate Shoulder	9.53	CY
308+50.00 to 309+05	L/R	55.00	8.00	3.00	0.0	5.50	8	72	Aggregate Shoulder	7.47	CY
305+50 to 305+65	R	15.00	2.00	2.00	0.0	2.00	8	72	Aggregate Shoulder	0.74	CY
309+05 to 309+50	L/R	45.00	1.50	1.50	0.0	1.50	8	72	Aggregate Shoulder	1.67	CY
TOTAL ITEM 304 - Aggregate Base,										111	CU YD

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LOCATION STA TO STA	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVG WIDTH FEET	APPL RATE G/SY	ROUTE	ITEM 407 NON-TRACKING TACK COAT		
								DESCRIPTION	SUBTOTAL	UNIT
306+20.00 to 306+88.28	L/R	68.28	24.67	24.67	24.67	0.055	72	301 Full depth 2nd Lift	10.29	GAL
308+01.73 to 308+50	L/R	48.27	24.67	24.67	24.67	0.055	72	301 Full depth 2nd Lift	7.28	GAL
308+50.00 to 309+05	L/R	55.00	5.67	4.67	5.17	0.055	72	301 Widening 2nd Lift	1.74	GAL
305+65.00 to 306+20.00	L/R	55.00	4.00	5.00	4.50	0.055	72	441 Widening 1st Lift	1.51	GAL
306+20.00 to 306+88.28	L/R	68.28	24.00	24.00	24.00	0.055	72	441 Full depth 1st Lift	10.01	GAL
308+01.73 to 308+50	L/R	48.27	24.00	24.00	24.00	0.055	72	441 Full depth 1st Lift	7.08	GAL
308+50.00 to 309+05	L/R	55.00	5.00	4.00	4.50	0.055	72	441 Widening 1st Lift	1.51	GAL
305+65.00 to 306+20.00	L/R	55.00	19.00	19.00	19.00	0.085	72	Planing & Overlay	9.87	GAL
308+50.00 to 309+05.00	L/R	55.00	19.00	19.00	19.00	0.085	72	Planing & Overlay	9.87	GAL
305+65.00 to 306+20.00	L/R	55.00	23.00	24.00	23.50	0.055	72	441 Widening 2nd Lift	7.90	GAL
306+20.00 to 306+88.28	L/R	68.28	24.00	24.00	24.00	0.055	72	441 Full depth 2nd Lift	10.01	GAL
308+01.73 to 308+50	L/R	48.27	24.00	24.00	24.00	0.055	72	441 Full depth 2nd Lift	7.08	GAL
308+50.00 to 309+05	L/R	55.00	24.00	23.00	23.50	0.055	72	441 Widening 2nd Lift	7.90	GAL
TOTAL ITEM 407 - Non-Tracking Tack Coat,									94	GAL

*CADD Calculated area.

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LOCATION STA TO STA	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVG WIDTH FEET	T INCH	ROUTE	ITEM 441 ASPH. SURFACE, TYPE 1, (448) PG64-22		
								DESCRIPTION	SUBTOTAL	UNIT
305+65.00 to 306+20.00	L/R	55.00	23.00	24.00	23.50	3	72		11.97	CY
306+20.00 to 306+88.28	L/R	68.28	24.00	24.00	24.00	3	72		15.17	CY
308+01.73 to 308+50	L/R	48.27	24.00	24.00	24.00	3	72		10.73	CY
308+50.00 to 309+05	L/R	55.00	24.00	23.00	23.50	3	72		11.97	CY
TOTAL ITEM 441 - Asphalt Surface Course, Type 1, (449) PG64-22,									50	CU YD

*CADD Calculated area.

LOCATION STA TO STA	SIDE	LENGTH FEET	BEGIN WIDTH FEET	END WIDTH FEET	AVG WIDTH FEET	T INCH	ROUTE	ITEM 441 ASPH. INTERMEDIATE, TYPE 1, (449)		
								DESCRIPTION	SUBTOTAL	UNIT
305+65.00 to 306+20.00	L/R	55.00	19.00	19.00	19.00	1	72		3.23	CY
308+50.00 to 309+05	L/R	55.00	19.00	19.00	19.00	1	72		3.23	CY
TOTAL ITEM 441 - Asphalt Concrete Intermediate Course, Type 1, (449),									7	CU YD

*CADD Calculated area.

STATION	SIDE	LENGTH FEET		ROUTE	ITEM 605 AGGREGATE DRAINS			
					DESCRIPTION	SUBTOTAL	UNIT	
305+65	R	13.0		72		13.0	FT	
306+00	L	11.0		72		11.0	FT	
306+50	R	11.0		72		11.0	FT	
307+00	L	13.0		72		13.0	FT	
308+00	R	10.0		72		10.0	FT	
308+50	L	13.0		72		13.0	FT	
309+00	L	13.0		72		13.0	FT	
TOTAL ITEM 605 - Aggregate Drains,							84	FT