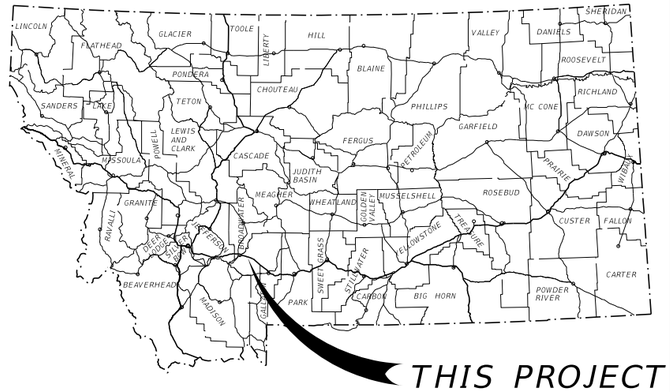
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MONTANA DEPARTMENT OF TRANSPORTATION

FEDERAL AID PROJECT STPS 205-1(49)0
SEAL AND COVER
THREE FORKS - EAST
GALLATIN COUNTY

PROJECT DESIGN DATA

NA

LETTING DATE - _____

SURFACING SOURCES – CONTRACTOR FURNISHED

LENGTH 14.900 MILES

RP 0.491
223.9' x 28.1' CONCRETE
NBI ID S00205000+04911
MDT ID 06368
MADISON RIVER
NOT THIS CONTRACT

RP 1.230
96.5' x 34.0' CONCRETE
NBI ID S00205001+02381
MDT ID 06369
MID. FORK MADISON RIVER
NOT THIS CONTRACT

RP 2.630
82.0' x 22.0' CULVERTS
NBI ID S00205002+06381
MDT ID 06370
REY CREEK
NOT THIS CONTRACT

RP 5.060
312.2' x 30.8' CONCRETE
NBI ID S00205005+00671
MDT ID 06372
RAIL ROAD
NOT THIS CONTRACT

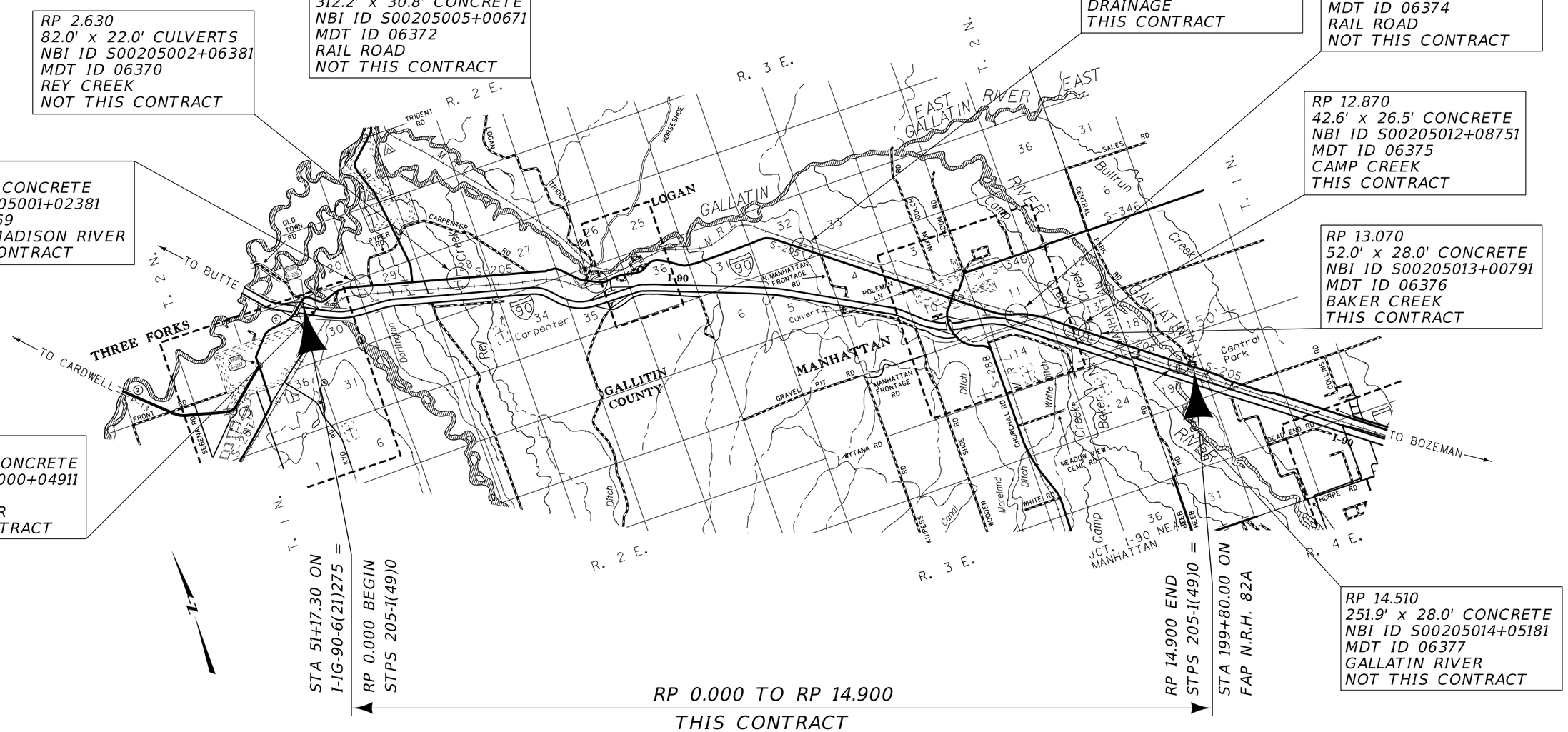
RP 8.340
23.0' x 21.8' CONCRETE
NBI ID S00205008+03441
MDT ID 06373
DRAINAGE
THIS CONTRACT

RP 11.949
373.9' x 38.7' CONCRETE
NBI ID S00205011+09551
MDT ID 06374
RAIL ROAD
NOT THIS CONTRACT

RP 12.870
42.6' x 26.5' CONCRETE
NBI ID S00205012+08751
MDT ID 06375
CAMP CREEK
THIS CONTRACT

RP 13.070
52.0' x 28.0' CONCRETE
NBI ID S00205013+00791
MDT ID 06376
BAKER CREEK
THIS CONTRACT

RP 14.510
251.9' x 28.0' CONCRETE
NBI ID S00205014+05181
MDT ID 06377
GALLATIN RIVER
NOT THIS CONTRACT



3	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9306000rdtl001.dgn	DESIGNED BY	R. Wiant	1/22/2021	ROAD PLANS
2		9/20/2021	REVIEWED BY	Kevin Mueller	2/17/2021	
		11:31:29 AM CPS - U656A	CHECKED BY			UPN 9306000

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NOTES

BASIS OF PLAN QUANTITIES

(QUANTITIES FOR ESTIMATING PURPOSES ONLY)

BITUMINOUS MATERIAL	= 8.5 LBS. PER GAL.
SEAL	= 0.42 GAL. PER SQ.YARD
COVER	= 25 LBS. PER SQ.YARD

WETLANDS

WETLANDS MAY EXIST ADJACENT TO THE ROADWAY AND BEYOND THE PROJECT LIMITS. A WETLAND DELINEATION HAS NOT BEEN COMPLETED FOR THIS PROJECT. IMPACTS TO WETLAND AREAS ARE NOT ANTICIPATED IN ASSOCIATION WITH THE PROPOSED WORK. NO PERMITS HAVE BEEN OBTAINED. ANY ACTION IMPACTING WETLAND AREAS WITHOUT THE APPROPRIATE PERMITTING IS THE RESPONSIBILITY OF THE CONTRACTOR.

UTILITIES

CALL THE UTILITIES UNDERGROUND LOCATION CENTER (811) OR OTHER NOTIFICATION SYSTEM FOR THE MARKING AND LOCATION OF ALL LINES AND SERVICES BEFORE EXCAVATING. ALL CLEARANCES OR DEPTHS PROVIDED FOR UTILITIES ARE FROM EXISTING GROUND LINE.

AS-BUILTS

I 90 6 15 1964 CONSTRUCTION
FI 169 3 1950 CONSTRUCTION
FAP 169 1923 CONSTRUCTION
FAP 177 A 1931 CONSTRUCTION
FAP 177 B 1931 CONSTRUCTION
FAP 177 C 1931 CONSTRUCTION
NRH 177D 1934 CONSTRUCTION
FAP 51 1920 CONSTRUCTION
NRH 82 A 1922 CONSTRUCTION
FAGH 82 A 1922 CONSTRUCTION
ARRA 90-6(87)278 2011 IMPROVEMENT
MTCE 309479 2010 IMPROVEMENT
MTCE 309936 2011 IMPROVEMENT
MTCE 310257 2012 IMPROVEMENT
BR 205-1(30)12 2011 IMPROVEMENT
STPS 205-1(41)12 2013 IMPROVEMENT

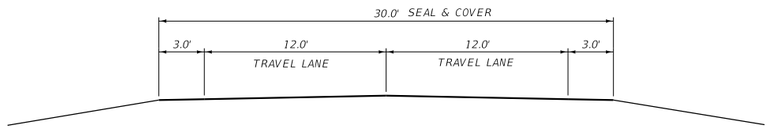
LINEAR DATA

LENGTH OF ROADWAY	GALLATIN COUNTY	2 LANE RURAL	77,296.00 ft
LENGTH OF BRIDGE	GALLATIN COUNTY (THIS CONTRACT)	2 LANE RURAL	117.60 ft
LENGTH OF BRIDGE	GALLATIN COUNTY (NOT THIS CONTRACT)	2 LANE RURAL	1,258.40 ft
TOTAL LENGTH OF	STPS 205-1(49)0	2 LANE RURAL	78,672.00 ft

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TYPICAL SECTION NO. 1

RP 0.000
RP 0.470 BE TO RP 5.12 BE
RP 0.788
RP 0.788 TO RP 0.864 TRAN. TYP. NO. 1 TO TYP. NO. 2



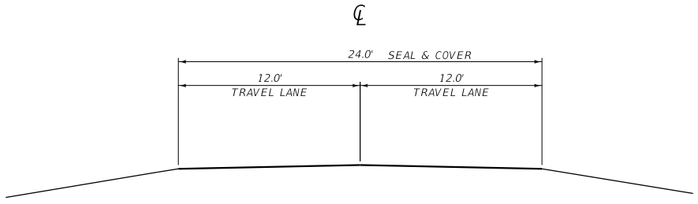
QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	333			square yards PER STATION tons PER STATION gals. PER STATION		333 0.59	

TYPICAL SECTION NO. 2

RP 0.864
RP 1.121 BE TO RP 1.239 BE
RP 5.030 BE TO RP 5.090 BE
RP 8.338 BE TO RP 8.342 BE
RP 10.690 THEN TYP. NO. 3

RP 11.185 TO RP 11.457
RP 11.457 TO 11.515 TRAN. TYP. NO. 2 TO TYP. NO. 5

RP 12.515
RP 12.866 BE TO RP 12.874 BE
RP 13.070 BE TO RP 13.075 BE
RP 14.510 BE TO RP 14.534 BE
RP 14.900



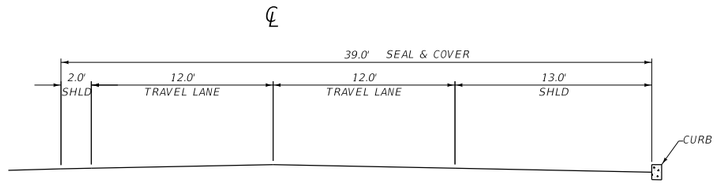
QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	267			square yards PER STATION tons PER STATION gals. PER STATION		267 0.48	

3	MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9306000rdtyp001.dgn	DESIGNED BY	R. Wiant	1/22/2021	ROAD PLANS	THREE FORKS - EAST / STPS 205-1(49)0
2		9/20/2021	REVIEWED BY	Kevin Mueller	2/17/2021		
		11:31:48 AM CPS - U6561	CHECKED BY			GALLATIN COUNTY	UPN 9306000 / 3

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TYPICAL SECTION NO. 3

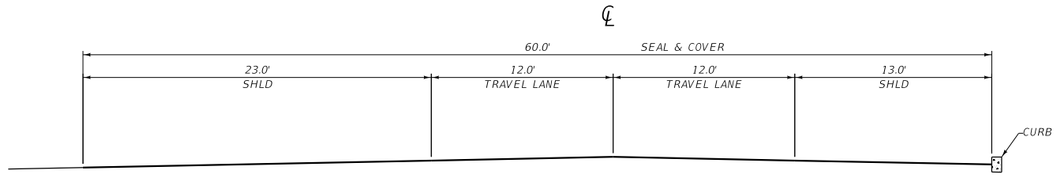
RP 10.690 TO RP 10.747 THEN TYP. NO. 4
RP 10.962 TO RP 11.185 THEN TYP. NO. 2



QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	433			square yards PER STATION tons PER STATION gals. PER STATION		433 0.77	

TYPICAL SECTION NO. 4

RP 10.747 TO RP 10.962 THEN TYP. NO. 3

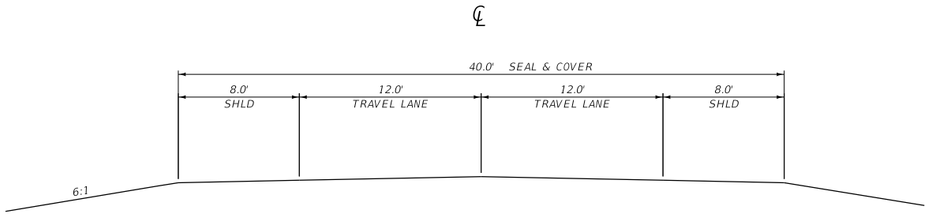


QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	667			square yards PER STATION tons PER STATION gals. PER STATION		667 1.19	

3 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9306000rdtyp001.dgn 9/20/2021 11:31:56 AM CPS - U6561	DESIGNED BY REVIEWED BY CHECKED BY	R. Wiant Kevin Mueller	1/22/2021 2/17/2021	ROAD PLANS GALLATIN COUNTY	THREE FORKS - EAST UPN 9306000	STPS 205-1(49)0 4

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TYPICAL SECTION NO. 5



RP 11.515
RP 11.914 BE TO RP 11.984 BE
RP 12.421
RP 12.421 TO RP 12.515 TRAN. TYP. NO. 5 TO TYP. NO. 2

QUANTITIES							
UNIT	AGGREGATE			UNIT	BITUMINOUS MATERIAL		
	COVER					SEAL	
AREA square feet cubic yards PER STATION tons PER STATION square yards PER STATION	444			square yards PER STATION tons PER STATION gals. PER STATION		444 0.79	

2 1	MDT MONTANA DEPARTMENT OF TRANSPORTATION	C:\DGN\9306000rdtyp001.dgn 9/20/2021 11:32:03 AM CPS - U6561	DESIGNED BY REVIEWED BY CHECKED BY	R. Wiant Kevin Mueller	1/22/2021 2/17/2021	ROAD PLANS GALLATIN COUNTY	THREE FORKS - EAST UPN 9306000	STPS 205-1(49)0 5

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SUMMARY

SURFACING

REFERANCE POST FROM	REFERANCE POST TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	REMARKS
0.000									
0.470 BE	0.512 BE				223.90	BRIDGE, MADISON RIVER			
	0.788	4,160.64	3,936.74				13,109	23.2	TYPICAL SECTION NO. 1
0.788	0.864	401.28	401.28				1,204	2.1	TRAN. TYP. SECT. NO. 1 TO TYP. SECT. NO. 2
0.864									
1.221 BE	1.239 BE				96.50	BRIDGE, MID. FORK MADISON			
5.030 BE	5.090 BE				312.20	BRIDGE, RAILROAD			
8.338 BE	8.342 BE				23.00	BRIDGE, DRAINAGE			
	10.690	51,881.28	51,449.58				137,370	247.0	TYPICAL SECTION NO. 2
10.690	10.747	300.96	300.96				1,303	2.3	TYPICAL SECTION NO. 3
10.747	10.962	1,135.20	1,135.20				7,572	13.5	TYPICAL SECTION NO. 4
10.962	11.185	1,177.44	1,177.44				5,098	9.1	TYPICAL SECTION NO. 3
11.185	11.457	1,436.16	1,436.16				3,835	6.9	TYPICAL SECTION NO. 2
11.457	11.515	306.24	306.24				1,089	1.9	TRAN. TYP. SECT. NO. 2 TO TYP. SECT. NO. 5
11.515									
11.914 BE	11.984 BE				373.90	BRIDGE, RAILROAD			
	12.421	4,783.68	4,409.78				19,579	34.8	TYPICAL SECTION NO. 5
12.421	12.515	496.32	496.32				1,764	3.2	TRAN. TYP. SECT. NO. 5 TO TYP. SECT. NO. 2
12.515									
12.866 BE	12.874 BE				42.60	BRIDGE, CAMP CREEK			
13.065 BE	13.075 BE				52.00	BRIDGE, BAKER CREEK			
14.486 BE	14.534 BE				251.90	BRIDGE, GALLATIN RIVER			
	14.900	12,592.80	12,246.30				32,698	58.8	TYPICAL SECTION NO. 2
						ADDITIONAL SURFACING	314	0.6	
TOTAL		78,672.00	77,296.00	~	1,376.00		224,935	403.4	

ADDITIONAL SURFACING (INCLUDED IN SURFACING FRAME)

REFERANCE POST FROM	REFERANCE POST TO	linear feet GROSS	linear feet NET	linear feet +	linear feet -	FOR	AGGREGATE sq. yards COVER TYPE 1	BITUMINOUS MATERIAL tons SEAL CHFRS-2P	REMARKS
8.338 BE	8.342 BE	23.00	23.00			PAVED OVER BRIDGE	61	0.1	TYPICAL SECTION NO. 2
12.866 BE	12.874 BE	42.60	42.60			PAVED OVER BRIDGE	114	0.2	TYPICAL SECTION NO. 2
13.065 BE	13.075 BE	52.00	52.00			PAVED OVER BRIDGE	139	0.3	TYPICAL SECTION NO. 2
SUBTOTAL		~	~	~	~		314	0.6	

SUMMARY

GUARDRAIL

REFERENCE POST		linear feet						each				REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		MGS INTERSECTING ROADWAY TERMINAL SECTION		MASH W-BEAM TERMINAL SECTION		GUARDRAIL END SECTION WIDENING		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
RP 0.263	RP 0.422		837.5									
RP 0.264	RP 0.422				800.0		37.5		1		1	
RP 0.339	RP 0.422	450.0										
RP 0.340	RP 0.422			375.0		37.5		1		1		
RP 0.554	RP 0.755	1,062.5										
RP 0.556	RP 0.754			975.0				2		2		
RP 6.100	RP 6.202	537.5										
RP 6.102	RP 6.201			450.0				2		2		
SUBTOTAL		2,050.0	837.5	1,800.0	800.0	37.5	37.5	5	1	5	1	
TOTAL		2,887.5		2,600.0		75.0		6		6		

PAVEMENT MARKINGS

ITEM	UNIT	INTERIM APPLICATION #	FINAL APPLICATION	TOTAL
STRIPING - WHITE PAINT	gallon	529		529
STRIPING - YELLOW PAINT	gallon	315		315
WORDS & SYMBOLS - WHITE PAINT	gallon	6		6
STRIPING - WHITE EPOXY	gallon		705	705
STRIPING - YELLOW EPOXY	gallon		420	420
WORDS & SYMBOLS - WHITE EPOXY	gallon		8	8
CURB MARKING - YELLOW EPOXY	gallon		5	5
FINAL SWEEP AND BROOM	course mile			14.9

INTERIM PAINT QUANTITIES ARE BASED ON A SINGLE APPLICATION.