

CALCULATIONS

CALCULATED:
J.J.P.
CHECKED:
R.L.B.

CALCULATIONS

LAK-2-9.46

ITEM 202 - APPROACH SLAB REMOVED

	LENGTH (FT)	WIDTH (FT)			
STATION 401 + 62 TO 401 + 87 LT.	25 X	24 X	1/9 =	66.7 S.Y.	
STATION 401 + 39 TO 401 + 64 RT.	25 X	24 X	1/9 =	66.7 S.Y.	
STATION 408 + 05 TO 408 + 30 LT.	25 X	24 X	1/9 =	66.7 S.Y.	
STATION 408 + 05 TO 408 + 30 RT.	25 X	24 X	1/9 =	66.7 S.Y.	
TOTAL				267 S.Y.**	

ITEM 202 - PAVEMENT REMOVED

	LENGTH (FT)	WIDTH (FT)			
S.R. 2 STATION 396 + 70 TO 401 + 62 LT.	492 X	24 X	1/9 =	1312.0 S.Y.	
STATION 396 + 50 TO 401 + 39 RT.	489 X	24 X	1/9 =	1304.0 S.Y.	
STATION 403 + 70 TO 408 + 05 LT.	435 X	24 X	1/9 =	1160.0 S.Y.	
STATION 403 + 47 TO 408 + 05 RT.	458 X	24 X	1/9 =	1221.3 S.Y.	
S.R. 615 STATION 29 + 36 TO 30 + 79 C/L	143 X	5 X	1/9 =	79.4 S.Y.	
TOTAL				5077 S.Y.**	

ITEM 203 - SUBGRADE COMPACTION

	LENGTH (FT)	WIDTH (FT)			
STATION 396 + 70 TO 401 + 67 LT.	497 X	50 X	1/9 =	2761.1 S.Y.	
STATION 396 + 50 TO 401 + 44 RT.	494 X	50 X	1/9 =	2744.4 S.Y.	
STATION 401 + 67 TO 401 + 87 LT.	20 X	55 X	1/9 =	122.2 S.Y.	
STATION 401 + 44 TO 401 + 64 RT.	20 X	55 X	1/9 =	122.2 S.Y.	
STATION 403 + 70 TO 403 + 90 LT.	20 X	55 X	1/9 =	122.2 S.Y.	
STATION 403 + 47 TO 403 + 67 RT.	20 X	55 X	1/9 =	122.2 S.Y.	
STATION 403 + 90 TO 408 + 30 LT.	440 X	50 X	1/9 =	2444.4 S.Y.	
STATION 403 + 67 TO 408 + 30 RT.	463 X	50 X	1/9 =	2572.2 S.Y.	
TOTAL				11,011 S.Y.**	

ITEM 304 - 6" AGGREGATE BASE (AS PER PLAN)

	LENGTH (FT)	WIDTH (FT)			
S.R. 2 STATION 396 + 70 TO 401 + 67 LT.	497 X	52 X	1/9 X 6/36 =	478.6 C.Y.	
STATION 396 + 50 TO 401 + 44 RT.	494 X	52 X	1/9 X 6/36 =	475.7 C.Y.	
STATION 401 + 67 TO 401 + 87 LT.	20 X	55 X	1/9 X 6/36 =	20.4 C.Y.	
STATION 401 + 44 TO 401 + 64 RT.	20 X	55 X	1/9 X 6/36 =	20.4 C.Y.	
STATION 403 + 70 TO 403 + 90 LT.	20 X	55 X	1/9 X 6/36 =	20.4 C.Y.	
STATION 403 + 47 TO 403 + 67 RT.	20 X	55 X	1/9 X 6/36 =	20.4 C.Y.	
STATION 403 + 90 TO 408 + 30 LT.	440 X	52 X	1/9 X 6/36 =	423.7 C.Y.	
STATION 403 + 67 TO 408 + 30 RT.	463 X	52 X	1/9 X 6/36 =	445.9 C.Y.	
S.R. 615 STATION 29 + 36 TO 30 + 79 C/L	143 X	5 X	1/9 X 6/36 =	13.2 C.Y.	
TOTAL				1,919 C.Y.	

ITEM 407 - TACK COAT

	LENGTH (FT)	WIDTH (FT)			
STATION 396 + 70 TO 401 + 67 LT.	497 X	50 X	1/9 X .075 =	207.1 GAL.	
STATION 396 + 50 TO 401 + 44 RT.	494 X	50 X	1/9 X .075 =	205.8 GAL.	
STATION 403 + 90 TO 408 + 30 LT.	440 X	50 X	1/9 X .075 =	183.3 GAL.	
STATION 403 + 67 TO 408 + 30 RT.	463 X	50 X	1/9 X .075 =	192.9 GAL.	
TOTAL				789 GAL.	

ITEM 446 - 1 3/4" ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 2

	LENGTH (FT)	WIDTH (FT)			
STATION 396 + 70 TO 401 + 67 LT.	497 X	50 X	1/9 X 1.75 X 1/36 =	134.2 C.Y.	
STATION 396 + 50 TO 401 + 44 RT.	494 X	50 X	1/9 X 1.75 X 1/36 =	133.4 C.Y.	
STATION 403 + 90 TO 408 + 30 LT.	440 X	50 X	1/9 X 1.75 X 1/36 =	118.8 C.Y.	
STATION 403 + 67 TO 408 + 30 RT.	463 X	50 X	1/9 X 1.75 X 1/36 =	125.0 C.Y.	
TOTAL				511 C.Y.	

ITEM 446 - 1 1/4" ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AS PER PLAN

	LENGTH (FT)	WIDTH (FT)			
STATION 396 + 70 TO 401 + 67 LT.	497 X	50 X	1/9 X 1.25 X 1/36 =	95.9 C.Y.	
STATION 396 + 50 TO 401 + 44 RT.	494 X	50 X	1/9 X 1.25 X 1/36 =	95.3 C.Y.	
STATION 403 + 90 TO 408 + 30 LT.	440 X	50 X	1/9 X 1.25 X 1/36 =	84.9 C.Y.	
STATION 403 + 67 TO 408 + 30 RT.	463 X	50 X	1/9 X 1.25 X 1/36 =	89.3 C.Y.	
TOTAL				365 C.Y.	

ITEM 448 - 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1 (UNDER GUARDRAIL), AS PER PLAN

SHT. No.		LENGTH (FT)	WIDTH (FT)		
18	GR-1&2 STATION 394 + 00 TO 396 + 60 C/L	260 X	8.5 X	1/9 X 3/36 =	20.5 C.Y.
18	GR-3 STATION 396 + 60 TO 398 + 00 C/L	140 X	4.0 X	1/9 X 3/36 =	5.2 C.Y.
18	GR-4 STATION 397 + 00 TO 398 + 00 RT.	100 X	4.0 X	1/9 X 3/36 =	3.7 C.Y.
19	GR-1 STATION 398 + 00 TO 401 + 38 RT.	338 X	4.0 X	1/9 X 3/36 =	12.5 C.Y.
19	GR-2 STATION 398 + 00 TO 398 + 60 RT.	60 X	4.0 X	1/9 X 3/36 =	2.2 C.Y.
19	STATION 398 + 60 TO 401 + 52 RT.	292 X	4.0 X	1/9 X 3/36 =	10.8 C.Y.
19	GR-3 STATION 398 + 90 TO 401 + 73 LT.	283 X	4.0 X	1/9 X 3/36 =	10.5 C.Y.
20	GR-1 STATION 403 + 94 TO 406 + 00 LT.	206 X	4.0 X	1/9 X 3/36 =	7.6 C.Y.
20	GR-2 STATION 403 + 81 TO 406 + 00 LT.	219 X	4.0 X	1/9 X 3/36 =	8.1 C.Y.
20	GR-3 STATION 403 + 59 TO 406 + 00 RT.	241 X	4.0 X	1/9 X 3/36 =	8.9 C.Y.
21	GR-1 STATION 406 + 00 TO 407 + 87 LT.	187 X	4.0 X	1/9 X 3/36 =	6.9 C.Y.
21	STATION 407 + 87 TO 409 + 87 LT.	200 X	4.0 X	1/9 X 3/36 =	7.4 C.Y.
21	GR-2 STATION 406 + 00 TO 408 + 50 LT.	250 X	4.0 X	1/9 X 3/36 =	9.3 C.Y.
	TOTAL				114 C.Y.

ITEM 451 - 9" REINFORCED CONCRETE PAVEMENT

	LENGTH (FT)	WIDTH (FT)			
S.R. 615 STATION 29 + 36 TO 30 + 79 C/L	143 X	5 X	1/9 =	79 S.Y.	

ITEM 451 - 11" REINFORCED CONCRETE PAVEMENT, AS PER PLAN

	LENGTH (FT)	WIDTH (FT)			
STATION 396 + 70 TO 401 + 67 LT.	497 X	51 X	1/9 =	2816.3 S.Y.	
STATION 396 + 50 TO 401 + 44 RT.	494 X	51 X	1/9 =	2799.3 S.Y.	
STATION 403 + 90 TO 408 + 30 LT.	440 X	51 X	1/9 =	2493.3 S.Y.	
STATION 403 + 67 TO 408 + 30 RT.	463 X	51 X	1/9 =	2623.7 S.Y.	
TOTAL				10,733 S.Y.	

ITEM 609 - CURB, TYPE 2-A, AS PER PLAN

	LENGTH (FT)			
S.R. 615 STATION 29 + 36 TO 30 + 79 RT.<.	(143 X 2)	=	286 L.F.	

ITEM 611 - REINFORCED CONCRETE APPROACH SLAB (T=13"), AS PER PLAN

	LENGTH (FT)	WIDTH (FT)			
STATION 401 + 67 TO 401 + 87 LT.	20 X	55 X	1/9 =	122.2 S.Y.	
STATION 401 + 44 TO 401 + 64 RT.	20 X	55 X	1/9 =	122.2 S.Y.	
STATION 403 + 70 TO 403 + 90 LT.	20 X	55 X	1/9 =	122.2 S.Y.	
STATION 403 + 47 TO 403 + 67 RT.	20 X	55 X	1/9 =	122.2 S.Y.	
TOTAL				489 S.Y.	

ITEM 615 - TEMPORARY PAVEMENT, CLASS A

	LENGTH (FT)	WIDTH (FT)			
STATION 396 + 70 TO 401 + 91 LT.	521 X	11 X	1/9 =	636.8 S.Y.	
STATION 396 + 50 TO 401 + 60 RT.	510 X	11 X	1/9 =	623.3 S.Y.	
STATION 403 + 72 TO 408 + 30 LT.	458 X	11 X	1/9 =	559.8 S.Y.	
STATION 403 + 41 TO 408 + 30 RT.	489 X	11 X	1/9 =	597.7 S.Y.	
TOTAL				2,418 S.Y.	

ITEM 615 - TEMPORARY PAVEMENT, CLASS A, AS PER PLAN

	LENGTH (FT)	WIDTH (FT)			
STATION 391 + 85 TO 392 + 30 LT. (MED.)	45 X	5.00 X	1/9 =	25.0 S.Y.	
STATION 392 + 30 TO 396 + 70 LT. (MED.)	440 X	10.50 X	1/9 =	513.3 S.Y.	
STATION 392 + 10 TO 396 + 50 RT. (MED.)	440 X	10.50 X	1/9 =	513.3 S.Y.	
STATION 395 + 63 TO 396 + 70 LT.	107 X	11.00 X	1/9 =	130.8 S.Y.	
STATION 408 + 30 TO 409 + 86 LT.	156 X	11.00 X	1/9 =	190.7 S.Y.	
STATION 408 + 30 TO 412 + 70 LT. (MED.)	440 X	10.50 X	1/9 =	513.3 S.Y.	
STATION 408 + 30 TO 412 + 70 RT. (MED.)	440 X	10.50 X	1/9 =	513.3 S.Y.	
STATION 408 + 30 TO 409 + 86 RT.	156 X	9.21 X	1/9 =	159.6 S.Y.	
TOTAL				2,559 S.Y.	

* AVERAGE

** CARRIED TO GENERAL SUMMARY SHEET NO. 14. ALL OTHER TOTALS CARRIED TO GENERAL SUMMARY SHEET NO. 15.