INFORMATION HANDOUT

For Contract No. 11-406704
At 11-SD-5-R58.1/R72.4

Identified by
Project ID 1100020342

MATERIALS INFORMATION

High Speed Weigh-In-Motion (WIM) System Records And Output

ASCII SPEED FILE FORMAT

FIELD	LENGTH	STARTS IN COLUMN
Lane	2	1
Hour	2	4
Count, 0-35 MPH	4	7
Count, 36-40 MPH	4	12
Count, 41-45 MPH	4	17
Count, 46-50 MPH	4	22
Count, 51-55 MPH	4	27
Count, 56-60 MPH	4	32
Count, 61-65 MPH	4	37
Count, 66-70 MPH	4	42
Count, 71-75 MPH	4	47
Count, 76-80 MPH	4	52
Count, 81-85 MPH	4	57
Count, > 86 MPH	4	62

ASCII CLASSIFICATION FILE FORMAT

FIELD	LENGTH	STARTS IN COLUMN
Lane	2	1
Hour	2	4
Count, Class 1	4	7
Count, Class 2	4	12
Count, Class 3	4	17
Count, Class 4	4	22
Count, Class 5	4	27
Count, Class 6	4	32
Count, Class 7	4	37
Count, Class 8	4	42
Count, Class 9	4	47
Count, Class 10	4	52
Count, Class 11	4	57
Count, Class 12	4	62
Count, Class 13	4	67
Count, Class 14	4	72
Count, Class 15	4	77

For the above two files:

Each field shall be comma delimited.
For each day's file there is one record
for each lane for each hourly period.

WEIGHT VIOLATION TABLE

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(All weights in pounds)

AXLE WEIGHT

Axle No. 1----------	12500
All other axles----------	20000

TANDEM AXLE WEIGHT

Two consecutive axles with an axle spacing not exceeding 8.4 feet----------	34000

GROSS VEHICLE WEIGHT

All vehicles----------	80000

BRIDGE WEIGHT

See page following----------

BRIDGE WEIGHT

Distance in nearest whole foot between the extremes of any group of 2 or more consecutive axles

	2 axles	3 axles	4 axles	5 axles	6 axles	7 axles	8 axles	9 axles
<8	34,000	34,000	34,000	34,000	34,000	_____	_____	_____
8	34,000	34,000	34,000	34,000	34,000	_____	_____	_____
9	39,000	42,500	42,500	42,500	42,500	_____	_____	_____
10	40,000	43,500	43,500	43,500	43,500	_____	_____	_____
11	40,000	44,000	44,000	44,000	44,000	_____	_____	_____
12	40,000	45,000	50,000	50,000	50,000	_____	_____	_____
13	40,000	45,500	50,500	50,500	50,500	_____	_____	_____
14	40,000	46,500	51,500	51,500	51,500	_____	_____	_____
15	40,000	47,000	52,000	52,000	52,000	_____	_____	_____
16	40,000	48,000	52,500	52,500	52,500	_____	_____	_____
17	40,000	48,500	53,500	53,500	53,500	_____	_____	_____
18	40,000	49,500	54,000	54,000	54,000	_____	_____	_____
19	40,000	50,000	54,500	54,500	54,500	_____	_____	_____
20	40,000	51,000	55,500	55,500	55,500	_____	_____	_____
21	40,000	51,500	56,000	56,000	56,000	_____	_____	_____
22	40,000	52,500	56,500	56,500	56,500	_____	_____	_____
23	40,000	53,000	57,500	57,500	57,500	_____	_____	_____
24	40,000	54,000	58,000	58,000	58,000	74,000	_____	_____
25	40,000	54,500	58,500	58,500	58,500	74,500	80,000	_____
26	40,000	55,500	59,500	59,500	59,500	75,000	80,000	_____
27	40,000	56,000	60,000	60,000	60,000	76,000	80,000	80,000
28	40,000	57,000	60,500	60,500	60,500	76,500	80,000	80,000
29	40,000	57,500	61,500	61,500	61,500	77,000	80,000	80,000
30	40,000	58,500	62,000	62,000	62,000	77,500	80,000	80,000
31	40,000	59,000	62,500	62,500	62,500	78,000	80,000	80,000
32	40,000	60,000	63,500	63,500	63,500	78,500	80,000	80,000
33	40,000	60,000	64,000	64,000	64,000	79,500	80000	80,000
34	40,000	60,000	64,500	64,500	64,500	80,000	80,000	80,000
35	40,000	60,000	65,500	65,500	65,500	80,000	80,000	80,000
36	40,000	60,000	68,000	66,000	66,000	80,000	80,000	80,000
37	40,000	60,000	68,000	66,500	66,500	80,000	80,000	80,000
38	40,000	60,000	68,000	67,500	67,500	80,000	80,000	80,000
39	40,000	60,000	68,000	68,000	68,000	80,000	80,000	80,000
40	40,000	60,000	68,500	70,000	70,000	80,000	80,000	80,000
41	40,000	60,000	69,500	72,000	72,000	80,000	80,000	80,000
42	40,000	60,000	70,000	73,280	73,280	80,000	80,000	80,000
43	40,000	60,000	70,500	73,280	73,280	80,000	80,000	80,000
44	40,000	60,000	71,500	73,280	73,280	80,000	80,000	80,000
45	40,000	60,000	72,000	76,000	80,000	80,000	80,000	80,000
46	40,000	60,000	72,500	76,500	80,000	80,000	80,000	80,000
47	40,000	60,000	73,500	77,500	80,000	80,000	80,000	80,000
48	40,000	60,000	74,000	78,000	80,000	80,000	80,000	80,000
49	40,000	60,000	74,500	78,500	80,000	80,000	80,000	80,000
50	40,000	60,000	75,500	79,000	80,000	80,000	80,000	80,000
51	40,000	60,000	76,000	80,000	80,000	80,000	80,000	80,000
52	40,000	60,000	76,500	80,000	80,000	80,000	80,000	80,000
53	40,000	60,000	77,500	80,000	80,000	80,000	80,000	80,000
54	40,000	60,000	78,000	80,000	80,000	80,000	80,000	80,000
55	40,000	60,000	78,500	80,000	80,000	80,000	80,000	80,000
56	40,000	60,000	79,500	80,000	80,000	80,000	80,000	80,000
57	40,000	60,000	80,000	80,000	80,000	80,000	80,000	80,000
58	40,000	60,000	80,000	80,000	80,000	80,000	80,000	80,000
>58	40,000	60,000	80,000	80,000	80,000	80,000	80,000	80,000

REAL TIME VIEW

****

Vehicle No.: _____Class: _____ Lane:_____ Speed:_____

Time: _____ Date: _____ Vehicle Length:_____

Invalid Measurements Code: _____ Weight Violation (s):_____

		AXLE NO.								
TOTALS		1	2	3	4	5	6	7	8	9
Axle Wt (kip)	76.1	10.9	15.0	16.2	17.2	16.8				
Axle. Space (feet)	56.9	11.8	4.5	36.4	4.2					

****

Note: Entries following Axle Wt and Axle Space are for example purpose only.

TRUCK RECORD BATCH PRINT
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Site Designation: ___ Lane: _____ Time: _____Date: _____ Speed: _____

Vehicle No.: ____Class: ___Invalid Code: ___Vehicle Wheelbase: ____Vehicle Length: _____

Gross Wt (kip): _____Weight Violation(s) : _____

Axle No.	1	2	3	4	5	6	7	8	9
Rt Wheel Wt (kip)	5.4	7.3	8.0	8.5	8.3				
Wt Wheel Wt (kip)	5.5	7.7	8.2	8.7	8.5				
Axle Wt (kips)	10.9	15.0	16.2	17.2	16.8				
Axle Space (Feet)	11.8	4.5	36.4	4.2					

****

Note: Entries following Axle Wt and Axle Space are for example purposes only.

DISTRIBUTION OF CLASS AND SPEED COUNTS BY LANE

SITE DESIGNATION:
DATE:

LANE NUMBER <number of lanes varies with contract requirements>

	1		2		3		4		5		6		ALL LANES	
	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%
CLASS														
1	0	0.0	0	0.0					0	0.0	6	0.0	6	0.0
2	22521	82.4	24464	82.7					28540	90.6	23974	87.6	99499	85.9
3	2687	9.8	2395	8.1					2324	7.4	1919	7.0	9325	8.1
4	14	0.1	21	0.1					16	0.1	13	0.0	64	0.1
5	1152	4.2	1297	4.4	"COUNT" entries for				486	1.5	56	0.2	2991	2.6
6	82	0.3	101	0.3	example only				9	0.0	917	3.3	1109	1.0
7	1	0.0	3	0.0					0	0.0	24	0.1	28	0.0
8	280	1.0	402	1.4					3	0.0	32	0.1	717	0.6
9	340	1.2	544	1.8					4	0.0	0	0.0	888	0.8
10	10	0.0	1	0.0					0	0.0	1	0.0	4	0.0
11	84	0.3	104	0.4					0	0.0	0	0.0	188	0.2
12	3	0.0	5	0.0					0	0.0	0	0.0	8	0.0
13	1	0.0	0	0.0					0	0.0	0	0.0	1	0.0
14	28	0.1	46	0.2					0	0.0	0	0.	74	0.1
15	142	0.5	206	0.7					127	0.4	434	1.6	909	0.8
TOTAL	27337	100.0	29589	100.0					31509	100.0	27376	100.0	115811	100.0

SPEED (MPH)														
1 - 5	2	0.0	6	0.0					2	0.0	4	0.0	14	0.0
6-10	0	0.0	0	0.0					4	0.0	10	0.0	14	0.0
11-15	10	0.0	5	0.0					32	0.1	28	0.1	75	0.1
16-20	48	0.2	33	0.1					75	0.2	88	0.3	244	0.2
21-25	271	1.0	280	0.9					269	0.9	179	0.7	999	0.9
26-30	641	2.3	615	2.1					480	1.5	349	1.3	2085	1.8
31-35	1047	3.8	838	2.8					731	2.3	606	2.2	3222	2.8
36-40	1165	4.3	1073	3.6					1077	3.4	891	3.3	4206	3.6
41-45	1645	6.0	913	3.1					927	2.9	997	3.6	4482	3.9
46-50	5140	18.8	2063	7.0					1027	3.3	89	3.3	9123	7.9
51-55	9487	34.7	5641	19.1					2508	8.0	1147	4.2	18783	16.2
56-60	5613	20.5	13537	45.8					14134	44.9	3243	11.8	36527	31.5
61-65	1872	6.8	3284	11.1					7211	22.9	9701	35.4	22068	19.1
66-70	277	1.0	1170	4.0					2749	8.7	6614	24.2	10810	9.3
71-75	79	0.3	90	0.3					234	0.7	2240	8.2	2643	2.3
76-80	24	0.1	34	0.1					45	0.1	327	1.2	430	0.4
81-85	13	0.0	7	0.0					4	0.0	51	0.2	75	0.1
86-90	3	0.0	0	0.0					0	0.0	8	0.0	11	0.0
91-95	0	0.0	0	0.0					0	0.0	0	0.0	0	0.0
96-100	0	0.0	0	0.0					0	0.0	0	0.0	0	0.0
> 100	0	0.0	0	0.0					0	0.0	0	0.0	0	0.0
TOTAL	27337	100.0	29589	100.0					31509	100.0	27376	100.0	115811	100.0
Avg SPEED	51		55						57		61		56	

DISTRIBUTION OF VEHICLE COUNTS BY HOUR OF DAY BY LANE

SITE DESIGNATION:
DATE:

HOURLY SUMMARY — LANE NUMBER <number of lanes varies with contract requirements>

HOUR	1	2	3	4	5	6	HOURLY TOTALS
00-01							
01-02							
02-03							
03-04							
04-05							
05-06							
QTR TOTALS							
06-07							
07-08							
08-09							
09-10							
10-11							
11-12							
QTR TOTALS							
12-13							
13-14							
14-15							
15-16							
16-17							
17-18							
QTR TOTALS							
18-19							
19-20							
20-21							
21-22							
22-23							
23-24							
QTR TOTALS							

DAILY SUMMARY — DAILY COUNTS BY LANE

1	2	3	4	5	6	DAILY TOTALS

DISTRIBUTION OF VEHICLE CLASSIFICATIONS BY HOUR OF DAY

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>
DATE:

HOURLY SUMMARY VEHICLE COUNTS

HOUR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	HOURLY TOTALS
00-01																
01-02																
02-03																
03-04																
04-05																
05-06																
QTR TOTALS																
06-07																
07-08																
08-09																
09-10																
10-11																
11-12																
QTR TOTALS																
12-13																
13-14																
14-15																
15-16																
16-17																
17-18																
QTR TOTALS																
18-19																
19-20																
20-21																
21-22																
22-23																
23-24																
QTR TOTALS																

DAILY SUMMARY VEHICLE COUNTS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTAL VEHICLES
COUNT																
PERCENT																

DISTRIBUTION OF VEHICLE CLASSIFICATIONS BY DAY OF MONTH

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>
DATE: 01/92

VEHICLE COUNTS

DAILY SUMMARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTALS
1 WED																
2 THU																
3 FRI																
4 SAT																
DAILY Avg																
5 SUN																
6 MON																
7 TUE																
8 WED																
9 THU																
10 FRI																
11 SAT																
DAILY Avg																
12 SUN																
13 MON																
14 TUE																
15 WED																
16 THU																
17 FRI																
18 SAT																
DAILY Avg																
19 SUN																
20 MON																
21 TUE																
22 WED																
23 THU																
24 FRI																
25 SAT																
DAILY Avg																
26 SUN																
27 MON																
28 TUE																
29 WED																
30 THU																
31 FRI																
DAILY Avg																

VEHICLE COUNTS

MONTHLY SUMMARY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	TOTALS
TOTALS																
PERCENT																
DAILY Avg																

DISTRIBUTION OF VEHICLES BY SPEED BY HOUR

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>
DATE:

SPEED RANGE, MPH

HOUR RANGE	00-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-80	> 80
00 - 01												
01 - 02												
02 - 03												
03 - 04												
04 - 05												
05 - 06												
QTR TOTALS												
06 - 07												
07 - 08												
08 - 09												
09 - 10												
10 - 11												
11 - 12												
QTR TOTALS												
12 - 13												
13 - 14												
14 - 15												
15 - 16												
16 - 17												
17 - 18												
QTR TOTALS												
18 - 19												
19 - 20												
20 - 21												
21 - 22												
22 - 23												
23 - 24												
QTR TOTALS												

DAILY SPEED SUMMARY

Total Vehicles:	Total Vehicles > 55 MPH:	Percentage Vehicles > 55 MPH:
Average Speed:	Total Vehicles > 60 MPH:	Percentage Vehicles > 60 MPH:
Median Speed:	Total Vehicles > 65 MPH:	Percentage Vehicles > 65 MPH:
85th Percentile:	Total Vehicles > 70 MPH:	Percentage Vehicles > 70 MPH:

DISTRIBUTION OF TRUCK RECORD DATA BY LANE <report to cover all records contained in truck records file>

SITE DESIGNATION:
DATE:

LANE NUMBER <number of lanes varies with contract requirements>

	1		2		3		4		5		6		ALL LANES	
CLASS	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%
1	0	0.0	0	0.0					0	0.0	6	0.0	6	0.0
2	0	0.0	0	0.0					0	0.0	0	0.0	0	
3	152	3.7	342	14.7					87	4.0	74	1.9	655	5.2
4	18	0.4	13	0.6					3	0.1	5	0.1	39	0.3
5	560	13.6	354	15.2		"COUNT" entries for			306	14.2	574	14.7	1794	14.3
6	129	3.1	67	2.9		example only			66	3.1	104	2.7	366	2.9
7	3	0.1	0	0.0					0	0.0	27	0.7	30	0.2
8	350	8.5	134	8.8					278	12.9	357	9.1	1119	8.9
9	1775	43.1	918	39.4					961	44.4	1698	43.5	5352	42.7
10	3	0.1	1	0.0					4	0.2	4	0.1	12	0.1
11	783	19.0	332	14.2					302	14.0	754	19.3	2171	17.3
12	56	1.4	30	1.3					32	1.5	68	1.7	186	1.5
13	5	0.1	2	0.1					0	0.0	7	0.2	14	0.1
14	122	3.0	34	1.5					37	1.7	104	2.7	297	2.4
15	158	3.8	66	2.8					78	3.6	128	3.3	430	3.4
TOTAL	4121	100.0	2330	100.0					2161	100.0	3907	100.0	12520	100.0

LANE NUMBER

	1		2		3		4		5		6		ALL LANES	
STATUS	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%
LEGAL	3353	81.4	1866	80.1					1976	91.4	3076	78.7	10271	82.0
OVER WT	662	16.0	384	16.5					127	5.9	715	18.3	2249	18.0
INVALID	106	2.6	80	3.4					59	2.7	116	3.0	361	2.9
TOTAL	4121	100.0	2330	100.0					2162	100.0	3907	100.0	12520	100.0

Note:
The line items under "STATUS" are to be based upon the Contractor's coding scheme for weight violation and invalid measurements. If the coding system identifies invalid measurements other than imbalance (such as "out-of-range" values, system errors, etc.), each unique type of invalid measurement should be broken down as a "STATUS" line item.

DISTRIBUTION OF TRUCK RECORD DATA BY LANE<report to cover all records contained in truck records file>

SITE DESIGNATION:
DATE:

LANE NUMBER <number of lanes varies with contract requirements>

	1		2		3		4		5		6		ALL LANES	
CLASS	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%
1	0	0.0	0	0.0					0	0.0	6	0.0	6	0.0
2	0	0.0	0	0.0					0	0.0	0	0.0	0	
3	152	3.7	342	14.7					87	4.0	74	1.9	655	5.2
4	18	0.4	13	0.6					3	0.1	5	0.1	39	0.3
5	560	13.6	354	15.2		"COUNT" entries for			306	14.2	574	14.7	1794	14.3
6	129	3.1	67	2.9		example only			66	3.1	104	2.7	366	2.9
7	3	0.1	0	0.0					0	0.0	27	0.7	30	0.2
8	350	8.5	134	8.8					278	12.9	357	9.1	1119	8.9
9	1775	43.1	918	39.4					961	44.4	1698	43.5	5352	42.7
10	3	0.1	1	0.0					4	0.2	4	0.1	12	0.1
11	783	19.0	332	14.2					302	14.0	754	19.3	2171	17.3
12	56	1.4	30	1.3					32	1.5	68	1.7	186	1.5
13	5	0.1	2	0.1					0	0.0	7	0.2	14	0.1
14	122	3.0	34	1.5					37	1.7	104	2.7	297	2.4
15	158	3.8	66	2.8					78	3.6	128	3.3	430	3.4
TOTAL	4121	100.0	2330	100.0					2161	100.0	3907	100.0	12520	100.0

LANE NUMBER

	1		2		3		4		5		6		ALL LANES	
STATUS	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%	COUNT	%
LEGAL	3353	81.4	1866	80.1					1976	91.4	3076	78.7	10271	82.0
OVER WT	662	16.0	384	16.5					127	5.9	715	18.3	2249	18.0
INVALID	106	2.6	80	3.4					59	2.7	116	3.0	361	2.9
TOTAL	4121	100.0	2330	100.0					2162	100.0	3907	100.0	12520	100.0

Note:
The line items under "STATUS" are to be based upon the Contractor's coding scheme for weight violation and invalid measurements. If the coding system identifies invalid measurements other than imbalance (such as "out-of-range" values, system errors, etc.), each unique type of invalid measurement should be broken down as a "STATUS" line item.

DISTRIBUTION OF WEIGHT VIOLATIONS AND INVALID MEASUREMENTS FOR VEHICLE CLASSIFICATIONS 4 THROUGH 15

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>
DATE:

CLASS	TOTAL VEHICLES COUNTED	VEHICLES WITH INVALID MEASUREMENTS	TOTAL VEHICLES WEIGHED	TOTAL VEHICLES OVERWEIGHT	PERCENT VEHICLES OVERWEIGHT	*********NUMBER OF********** *****WEIGHT VIOLATIONS ******* AXLE	TANDEM	GROSS	BRIDGE
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
TOTALS									

PERCENT VEHICLES NOT CLASSIFIED (CLASS 15) : _____

PERCENT VEHICLES WITH INVALID MEASUREMENTS: _____

Notes:

"Percent Vehicles Not Classified" = Class 15 Total Vehicle Count / Total Vehicles Counted
"Percent Vehicles With Invalid Measurements" = Total Vehicles With Invalid Measurements / Total Vehicles Counted
"Vehicles Counted" - "Vehicles With Invalid Measurements" = "Vehicles Weighed"

All weight and weight violation reporting and calculations based on data for "weighed vehicles"

DISTRIBUTION OF WEIGHT VIOLATIONS BY HOUR OF DAY FOR VEHICLE CLASSIFICATIONS 4 THROUGH 14

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>
DATE:

HOURLY SUMMARY

HOUR	TOTAL VEHICLES WEIGHED	TOTAL VEHICLES OVERWEIGHT	PERCENT VEHICLES OVERWEIGHT	****NUMBER OF **** ****WEIGHT VIOLATIONS **** AXLE	TANDEM	GROSS	BRIDGE
00-01							
01-02							
02-03							
03-04							
04-05							
05-06							
QTR TOTALS							
07-08							
08-09							
09-10							
10-11							
11-12							
QTR TOTALS							
12-13							
13-14							
14-15							
15-16							
16-17							
17-18							
QTR TOTALS							
18-19							
19-20							
20-2							
21-22							
22-23							
23-24							
QTR TOTALS							

DAILY SUMMARY

TOTAL VEHICLES WEIGHED	TOTAL VEHICLES OVERWEIGHT	PERCENT VEHICLES OVERWEIGHT	****NUMBER OF **** ****WEIGHT VIOLATIONS **** AXLE	TANDEM	GROSS	BRIDGE

DISTRIBUTION OF OVERWEIGHT VEHICLES BY HOUR OF DAY FOR VEHICLE CLASSIFICATIONS 4 THROUGH 14

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>
DATE: 01/92

HOURLY SUMMARY — NUMBER OVERWEIGHT VEHICLES

HOUR	TOTAL VEH'S WEIGHED	TOTAL VEH'S OVERWT	PERCENT VEH'S OVERWT	4	5	6	7	8	9	10	11	12	13	14
00-01														
01-02														
02-03														
03-04														
04-05														
05-06														
QTR TOTALS														
06-07														
07-08														
08-09														
09-10														
10-11														
11-12														
QTR TOTALS														
12-13														
13-14														
14-15														
15-16														
16-17														
17-18														
QTR TOTALS														
18-19														
19-20														
20-21														
21-22														
22-23														
23-24														
QTR TOTALS														

DAILY SUMMARY — NUMBER OVERWEIGHT VEHICLES

TOTAL VEH'S WEIGHED	TOTAL VEH'S OVERWT	PERCENT VEH'S OVERWT	4	5	6	7	8	9	10	11	12	13	14

DISTRIBUTION OF GROSS WEIGHTS FOR VEHICLE CLASSIFICATIONS 4 THROUGH 14

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>
DATE:

VEHICLE COUNTS

GROSS WT KIPS	4	5	6	7	8	9	10	11	12	13	14	TOTALS
0 - 5												
5 - 10												
10 - 15												
15 - 20												
20 - 25												
25 - 30												
30 - 35												
35 - 40												
40 - 45												
45 - 50												
50 - 55												
55 - 60												
60 - 65												
65 - 70												
70 - 75												
75 - 80												
80 - 85												
85 - 90												
90 - 95												
95-100												
100-105												
105-110												
110-115												
115-120												
>120												
TOTALS												

DISTRIBUTION OF 18 KIP ESALS BY HOUR OF DAY FOR VEHICLE CLASSIFICATIONS 4 THROUGH 14
FOR _____ <display user's entries as to pavement type and str. no. or slab thickness>

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>
DATE: VEH STATUS <display user's entry as to "LEGAL ONLY", "OVER Wt ONLY" or "ALL" (default)

HOURLY SUMMARY

			ESALS BY HOUR BY CLASS										
HOUR	TOTAL VEHICLES WEIGHED	TOTAL ESALS	4	5	6	7	8	9	10	11	12	13	14
00-01													
01-02													
02-03													
03-04													
04-05													
05-06													
QTR TOTALS													
06-07													
07-08													
08-09													
09-10													
10-11													
11-12													
QTR TOTALS													
12-13													
13-14													
14-15													
15-16													
16-17													
17-18													
QTR TOTALS													
18-19													
19-20													
20-21													
21-22													
22-23													
23-24													
QTR TOTALS													

DAILY SUMMARY

	TOTALS	4	5	6	7	8	9	10	11	12	13	14
VEHICLES WEIGHED:												
18 KIP ESALS:												
AVERAGE ESAL:												

DISTRIBUTION OF TRUCKS BY DAY OF MONTH FOR CLASSIFICATIONS 4 THROUGH 15

SITE DESIGNATION: LANE Nos. <display user's entry as to selected lane(s)>

DATE: 01/92

DAILY SUMMARY

DAY	TOTAL VEHICLES CNTD	TOTAL VEHS WGHD	TOTAL VEHS OVER Wt	PCT VEHS OVER Wt	COUNTED VEHICLES 4	5	6	7	8	9	10	11	12	13	14	15
1 WED																
2 THU																
3 FRI																
4 SAT																
5 SUN																
6 MON																
7 TUE																
8 WED																
9 THU																
10 FRI																
11 SAT																
12 SUN																
13 MON																
14 TUE																
15 WED																
16 THU																
17 FRI																
18 SAT																
19 SUN																
20 MON																
21 TUE																
22 WED																
23 THU																
24 FRI																
25 SAT																
26 SUN																
27 MON																
28 TUE																
29 WED																
30 THU																
31 FRI																

MONTHLY SUMMARY

	TOTAL VEHICLES COUNTED	TOTAL VEHICLES WEIGHED	TOTAL VEHICLES OVER Wt	PCT VEHICLES OVER Wt	COUNTED VEHICLES 4	5	6	7	8	9	10	11	12	13	14	15
TOTALS																
PERCENT																

Table D.4. Axle load equivalency factors for flexible pavements, single axles and p_t of 2.5.

Axle Load (kips)	Pavement Structural Number (SN) 1	2	3	4	5	6
2	.0004	.0004	.0003	.0002	.0002	.0002
4	.003	.004	.004	.003	.002	.002
6	.011	.017	.017	.013	.010	.009
8	.032	.047	.051	.041	.034	.031
10	.078	.102	.118	.102	.088	.080
12	.168	.198	.229	.213	.189	.176
14	.328	.358	.399	.388	.360	.342
16	.591	.613	.646	.645	.623	.606
18	1.00	1.00	1.00	1.00	1.00	1.00
20	1.61	1.57	1.49	1.47	1.51	1.55
22	2.48	2.38	2.17	2.09	2.18	2.30
24	3.69	3.49	3.09	2.89	3.03	3.27
26	5.33	4.99	4.31	3.91	4.09	4.48
28	7.49	6.98	5.90	5.21	5.39	5.98
30	10.3	9.5	7.9	6.8	7.0	7.8
32	13.9	12.8	10.5	8.8	8.9	10.0
34	18.4	16.9	13.7	11.3	11.2	12.5
36	24.0	22.0	17.7	14.4	13.9	15.5
38	30.9	28.3	22.6	18.1	17.2	19.0
40	39.3	35.9	28.5	22.5	21.1	23.0
42	49.3	45.0	35.6	27.8	25.6	27.7
44	61.3	55.9	44.0	34.0	31.0	33.1
46	75.5	68.8	54.0	41.4	37.2	39.3
48	92.2	83.9	65.7	50.1	44.5	46.5
50	112.	102.	79.	60.	53.	55.

Table D.5. Axle load equivalency factors for flexible pavements, tandem axles and p_t of 2.5.

Axle Load (kips)	Pavement Structural Number (SN) 1	2	3	4	5	6
2	.0001	.0001	.0001	.0000	.0000	.0000
4	.0005	.0005	.0004	.0003	.0003	.0002
6	.002	.002	.002	.001	.001	.001
8	.004	.006	.005	.004	.003	.003
10	.008	.013	.011	.009	.007	.006
12	.015	.024	.023	.018	.014	.013
14	.026	.041	.042	.033	.027	.024
16	.044	.065	.070	.057	.047	.043
18	.070	.097	.109	.092	.077	.070
20	.107	.141	.162	.141	.121	.110
22	.160	.198	.229	.207	.180	.166
24	.231	.273	.315	.292	.260	.242
26	.327	.370	.420	.401	.364	.342
28	.451	.493	.548	.534	.495	.470
30	.611	.648	.703	.695	.658	.633
32	.813	.843	.889	.887	.857	.834
34	1.06	1.08	1.11	1.11	1.09	1.08
36	1.38	1.38	1.38	1.38	1.38	1.38
38	1.75	1.73	1.69	1.68	1.70	1.73
40	2.21	2.16	2.06	2.03	2.08	2.14
42	2.76	2.67	2.49	2.43	2.51	2.61
44	3.41	3.27	2.99	2.88	3.00	3.16
46	4.18	3.98	3.58	3.40	3.55	3.79
48	5.08	4.80	4.25	3.98	4.17	4.49
50	6.12	5.76	5.03	4.64	4.86	5.28
52	7.33	6.87	5.93	5.38	5.63	6.17
54	8.72	8.14	6.95	6.22	6.47	7.15
56	10.3	9.6	8.1	7.2	7.4	8.2
58	12.1	11.3	9.4	8.2	8.4	9.4
60	14.2	13.1	10.9	9.4	9.6	10.7
62	16.5	15.3	12.6	10.7	10.8	12.1
64	19.1	17.6	14.5	12.2	12.2	13.7
66	22.1	20.3	16.6	13.8	13.7	15.4
68	25.3	23.3	18.9	15.6	15.4	17.2
70	29.0	26.6	21.5	17.6	17.2	19.2
72	33.0	30.3	24.4	19.8	19.2	21.3
74	37.5	34.4	27.6	22.2	21.3	23.6
76	42.5	38.9	31.1	24.8	23.7	26.1
78	48.0	43.9	35.0	27.8	26.2	28.8
80	54.0	49.4	39.2	30.9	29.0	31.7
82	60.6	55.4	43.9	34.4	32.0	34.8
84	67.8	61.9	49.0	38.2	35.3	38.1
86	75.7	69.1	54.5	42.3	38.8	41.7
88	84.3	76.9	60.6	46.8	42.6	45.6
90	93.7	85.4	67.1	51.7	46.8	49.7

Table D.6. Axle load equivalency factors for flexible pavements, triple axles and p_t of 2.5.

Axle Load (kips)	Pavement Structural Number (SN) 1	2	3	4	5	6
2	.0000	.0000	.0000	.0000	.0000	.0000
4	.0002	.0002	.0002	.0001	.0001	.0001
6	.0006	.0007	.0005	.0004	.0003	.0003
8	.001	.002	.001	.001	.001	.001
10	.003	.004	.003	.002	.002	.002
12	.005	.007	.006	.004	.003	.003
14	.008	.012	.010	.008	.006	.006
16	.012	.019	.018	.013	.011	.010
18	.018	.029	.028	.021	.017	.016
20	.027	.042	.042	.032	.027	.024
22	.038	.058	.060	.048	.040	.036
24	.053	.078	.084	.068	.057	.051
26	.072	.103	.114	.095	.080	.072
28	.098	.133	.151	.128	.109	.099
30	.129	.169	.195	.170	.145	.133
32	.169	.213	.247	.220	.191	.175
34	.219	.266	.308	.281	.246	.228
36	.279	.329	.379	.352	.313	.292
38	.352	.403	.461	.436	.393	.368
40	.439	.491	.554	.533	.487	.459
42	.543	.594	.661	.644	.597	.567
44	.666	.714	.781	.769	.723	.692
46	.811	.854	.918	.911	.868	.838
48	.979	1.015	1.072	1.069	1.033	1.005
50	1.17	1.20	1.24	1.25	1.22	1.20
52	1.40	1.41	1.44	1.44	1.43	1.41
54	1.66	1.66	1.66	1.66	1.66	1.66
56	1.95	1.93	1.90	1.90	1.91	1.93
58	2.29	2.25	2.17	2.16	2.20	2.24
60	2.67	2.60	2.48	2.44	2.51	2.58
62	3.09	3.00	2.82	2.76	2.85	2.95
64	3.57	3.44	3.19	3.10	3.22	3.36
66	4.11	3.94	3.61	3.47	3.62	3.81
68	4.71	4.49	4.06	3.88	4.05	4.30
70	5.38	5.11	4.57	4.32	4.52	4.84
72	6.12	5.79	5.13	4.80	5.03	5.41
74	6.93	6.54	5.74	5.32	5.57	6.04
76	7.84	7.37	6.41	5.88	6.15	6.71
78	8.83	8.28	7.14	6.49	6.78	7.43
80	9.92	9.28	7.95	7.15	7.45	8.21
82	11.1	10.4	8.8	7.9	8.2	9.0
84	12.4	11.6	9.8	8.6	8.9	9.9
86	13.8	12.9	10.8	9.5	9.8	10.9
88	15.4	14.3	11.9	10.4	10.6	11.9
90	17.1	15.8	13.2	11.3	11.6	12.9

Table D.13. Axle load equivalency factors for rigid pavements, single axles and p_t of 2.5.

Axle (Load (kips)	Slab Thickness, D (inches) 6	7	8	9	10	11	12	13	14
2	.0002	.0002	.0002	.0002	.0002	.0002	.0002	.0002	.0002
4	.003	.002	.002	.002	.002	.002	.002	.002	.002
6	.012	.011	.010	.010	.010	.010	.010	.010	.010
8	.039	.035	.033	.032	.032	.032	.032	.032	.032
10	.097	.089	.084	.082	.081	.080	.080	.080	.080
12	.203	.189	.181	.176	.175	.174	.174	.173	.173
14	.376	.360	.347	.341	.338	.337	.336	.336	.336
16	.634	.623	.610	.604	.601	.599	.599	.599	.599
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20	1.51	1.52	1.55	1.57	1.58	1.58	1.59	1.59	1.59
22	2.21	2.20	2.28	2.34	2.38	2.40	2.41	2.41	2.41
24	3.16	3.10	3.22	3.36	3.45	3.50	3.53	3.54	3.55
26	4.41	4.26	4.42	4.67	4.85	4.95	5.01	5.04	5.05
28	6.05	5.76	5.92	6.29	6.61	6.81	6.92	6.98	7.01
30	8.16	7.67	7.79	8.28	8.79	9.14	9.35	9.46	9.52
32	10.8	10.1	10.1	10.7	11.4	12.0	12.3	12.6	12.7
34	14.1	13.0	12.9	13.6	14.6	15.4	16.0	16.4	16.5
36	18.2	16.7	16.4	17.1	18.3	19.5	20.4	21.0	21.3
38	23.1	21.1	20.6	21.3	22.7	24.3	25.6	26.4	27.0
40	29.1	26.5	25.7	26.3	27.9	29.9	31.6	32.9	33.7
42	36.2	32.9	31.7	32.2	34.0	36.3	38.7	40.4	41.6
44	44.6	40.4	38.8	39.2	41.0	43.8	46.7	49.1	50.8
46	54.5	49.3	47.1	47.3	49.2	52.3	55.9	59.0	61.4
48	66.1	59.7	56.9	56.8	58.7	62.1	66.3	70.3	73.4
50	79.4	71.7	68.2	67.8	69.6	73.3	78.1	83.0	87.1

Table D.14. Axle load equivalency factors for rigid pavements, tandem axles and p_t of 2.5.

Axle Load (kips)	Slab Thickness, D (inches) 6	7	8	9	10	11	12	13	14
2	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001
4	.0006	.0006	.0005	.0005	.0005	.0005	.0005	.0005	.0005
6	.002	.002	.002	.002	.002	.002	.002	.002	.002
8	.007	.006	.006	.005	.005	.005	.005	.005	.005
10	.015	.014	.013	.013	.012	.012	.012	.012	.012
12	.031	.028	.026	.026	.025	.025	.025	.025	.025
14	.057	.052	.049	.048	.047	.047	.047	.047	.047
16	.097	.089	.084	.082	.081	.081	.080	.080	.080
18	.155	.143	.136	.133	.132	.131	.131	.131	.131
20	.234	.220	.211	.206	.204	.203	.203	.203	.203
22	.340	.325	.313	.308	.305	.304	.303	.303	.303
24	.475	.462	.450	.444	.441	.440	.439	.439	.439
26	.644	.637	.627	.622	.620	.619	.618	.618	.618
28	.855	.854	.852	.850	.850	.850	.849	.849	.849
30	1.11	1.12	1.13	1.14	1.14	1.14	1.14	1.14	1.14
32	1.43	1.44	1.47	1.49	1.50	1.51	1.51	1.51	1.51
34	1.82	1.82	1.87	1.92	1.95	1.96	1.97	1.97	1.97
36	2.29	2.27	2.35	2.43	2.48	2.51	2.52	2.52	2.53
38	2.85	2.80	2.91	3.03	3.12	3.16	3.18	3.20	3.20
40	3.52	3.42	3.55	3.74	3.87	3.94	3.98	4.00	4.01
42	4.32	4.16	4.30	4.55	4.74	4.86	4.91	4.95	4.96
44	5.26	5.01	5.16	5.48	5.75	5.92	6.01	6.06	6.09
46	6.36	6.01	6.14	6.53	6.90	7.14	7.28	7.36	7.40
48	7.64	7.16	7.27	7.73	8.21	8.55	8.75	8.86	8.92
50	9.11	8.50	8.55	9.07	9.68	10.14	10.42	10.58	10.66
52	10.8	10.0	10.0	10.6	11.3	11.9	12.3	12.5	12.7
54	12.8	11.8	11.7	12.3	13.2	13.9	14.5	14.8	14.9
56	15.0	13.8	13.6	14.2	15.2	16.2	16.8	17.3	17.5
58	17.5	16.0	15.7	16.3	17.5	18.6	19.5	20.1	20.4
60	20.3	18.5	18.1	18.7	20.0	21.4	22.5	23.2	23.6
62	23.5	21.4	20.8	21.4	22.8	24.4	25.7	26.7	27.3
64	27.0	24.6	23.8	24.4	25.8	27.7	29.3	30.5	31.3
66	31.0	28.1	27.1	27.6	29.2	31.3	33.2	34.7	35.7
68	35.4	32.1	30.9	31.3	32.9	35.2	37.5	39.3	40.5
70	40.3	36.5	35.0	35.3	37.0	39.5	42.1	44.3	45.9
72	45.7	41.4	39.6	39.8	41.5	44.2	47.2	49.8	51.7
74	51.7	46.7	44.6	44.7	46.4	49.3	52.7	55.7	58.0
76	58.3	52.6	50.2	50.1	51.8	54.9	58.6	62.1	64.8
78	65.5	59.1	56.3	56.1	57.7	60.9	65.0	69.0	72.3
80	73.4	66.2	62.9	62.5	64.2	67.5	71.9	76.4	80.2
82	82.0	73.9	70.2	69.6	71.2	74.7	79.4	84.4	88.8
84	91.4	82.4	78.1	77.3	78.9	82.4	87.4	93.0	98.1
86	102.	92.	87.	86.	87.	91.	96.	102.	108.
88	113.	102.	96.	95.	96.	100.	105.	112.	119.
90	125.	112.	106.	105.	106.	110.	115.	123.	130.

Table D.15. Axle load equivalency factors for rigid pavements, triple axles and p_t of 2.5.

Axle Load (kips)	Slab Thickness D (inches) 6	7	8	9	10	11	12	13	14
2	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001	.0001
4	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003	.0003
6	.001	.001	.001	.001	.001	.001	.001	.001	.001
8	.003	.002	.002	.002	.002	.002	.002	.002	.002
10	.006	.005	.005	.005	.005	.005	.005	.005	.005
12	.011	.010	.010	.009	.009	.009	.009	.009	.009
14	.020	.018	.017	.017	.016	.016	.016	.016	.016
16	.033	.030	.029	.028	.027	.027	.027	.027	.027
18	.053	.048	.045	.044	.044	.043	.043	.043	.043
20	.080	.073	.069	.067	.066	.066	.066	.066	.066
22	.116	.107	.101	.099	.098	.097	.097	.097	.097
24	.163	.151	.144	.141	.139	.139	.138	.138	.138
26	.222	.209	.200	.195	.194	.193	.192	.192	.192
28	.295	.281	.271	.265	.263	.262	.262	.262	.262
30	.384	.371	.359	.354	.351	.350	.349	.349	.349
32	.490	.480	.468	.463	.460	.459	.458	.458	.458
34	.616	.609	.601	.596	.594	.593	.592	.592	.592
36	.765	.762	.759	.757	.756	.755	.755	.755	.755
38	.939	.941	.946	.948	.950	.951	.951	.951	.951
40	1.14	1.15	1.16	1.17	1.18	1.18	1.18	1.18	1.18
42	1.38	1.38	1.41	1.44	1.45	1.46	1.46	1.46	1.46
44	1.65	1.65	1.70	1.74	1.77	1.78	1.78	1.78	1.79
46	1.97	1.96	2.03	2.09	2.13	2.15	2.16	2.16	2.16
48	2.34	2.31	2.40	2.49	2.55	2.58	2.59	2.60	2.60
50	2.76	2.71	2.81	2.94	3.02	3.07	3.09	3.10	3.11
52	3.24	3.15	3.27	3.44	3.56	3.62	3.66	3.68	3.68
54	3.79	3.66	3.79	4.00	4.16	4.26	4.30	4.33	4.34
56	4.41	4.23	4.37	4.63	4.84	4.97	5.03	5.07	5.09
58	5.12	4.87	5.00	5.32	5.59	5.76	5.85	5.90	5.93
60	5.91	5.59	5.71	6.08	6.42	6.64	6.77	6.84	6.87
62	6.80	6.39	6.50	6.91	7.33	7.62	7.79	7.88	7.93
64	7.79	7.29	7.37	7.82	8.33	8.70	8.92	9.04	9.11
66	8.90	8.28	8.33	8.83	9.42	9.88	10.17	10.33	10.42
68	10.1	9.4	9.4	9.9	10.6	11.2	11.5	11.7	11.9
70	11.5	10.6	10.6	11.1	11.9	12.6	13.0	13.3	13.5
72	13.0	12.0	11.8	12.4	13.3	14.1	14.7	15.0	15.2
74	14.6	13.5	13.2	13.8	14.8	15.8	16.5	16.9	17.1
76	16.5	15.1	14.8	15.4	16.5	17.6	18.4	18.9	19.2
78	18.5	16.9	16.5	17.1	18.2	19.5	20.5	21.1	21.5
80	20.6	18.8	18.3	18.9	20.2	21.6	22.7	23.5	24.0
82	23.0	21.0	20.3	20.9	22.2	23.8	25.2	26.1	26.7
84	25.6	23.3	22.5	23.1	24.5	26.2	27.8	28.9	29.6
86	28.4	25.8	24.9	25.4	26.9	28.8	30.5	31.9	32.8
88	31.5	28.6	27.5	27.9	29.4	31.5	33.5	35.1	36.1
90	34.8	31.5	30.3	30.7	32.2	34.4	36.7	38.5	39.8