150
Equipment

2/22/2010

Sheepsfoot Roller Data

Date	Row No.	H' of Foot	Diag Dist	Dimension Average	Area @ Foot	No. Feet In Row	Total Sq. In.	Roller Weight	Weight per Sq. In.	Accept or Reject	Comp/By Ck'd/By
4/12/2003	4	**7 .5"**	10.5"	**2 1/4 x 2 1/4**	5.0625	6	30.375	12,460	410	Accept	JB / AC
4/12/2003	6	8.5"	10.5"	**2 3/8 x 2 3/8**	5.6406	8	45.125	14,220	315	Accept	JB / AC

This plate is a record of the information obtained in the operational check of the sheepsfoot rollers. A check of the wear on the tamper feet will be taken as needed and documented on this plate. Manufactures specification sheet should be submitted for each project.

LIGHT SELF-PROPELLED PNEUMATIC TIRE ROLLER DATA

Date:	
Roller No.:	
Mfg:	**Model:**
Width of Tire Tread:	
No. of Tires in Front:	
No. of Tires in Back:	
Total Width of Tire Tread:	
Weight Per Inch of Tire Tread:	
Condition of Tread:	
Tire Pressure in Each Tire:	1= 50# 2= 50# 3=52# 4=51# 5=48# 6=52# 7=50# 8=54# 9=53# 10= 52# 11=56#
Mfgs Name Plate:	MODEL NO. 47-11017
Serial No.:	175-51-0099
Manufacturer:	OLIVER CORP. CHICAGO, ILL.
Accepted/Rejected:	Accepted
Insp. #	**Initials**
Periodic Checks:	5/20/2003
Calculations By #:	**Initials:**

This plate is a worksheet used to determine the weight per sq. in. of tire tread. If the roller is weighed over scales not located on the project it is recommended that the scale ticket be attached or the name of the inspector observing the weighing be shown. Periodic checks of roller condition and tire pressure should be made as necessary and documented. Mfg's specification sheet should be submitted for each project.

TWO AXLE TANDEM STEEL ROLLER DATA

Date	Roller No.	Weight	Minimum Allowed	Maximum Allowed	Weighed By	Remarks
4/30/2003	5144	20,000	16,000	24,000	JK/000110000	Weighed at local elevator scales
4/30/2003	5145	20,050	16,000	24,000	JK/000110000	Weighed at local elevator scales

This plate can also be used for data of three-wheeled steel rollers and heavy self-propelled pneumatic-tired rollers.

PULL-TYPE STEEL ROLLER DATA

Date	Width	Weight	Lbs. Per Lin. Inch	Comp'd By	Checked By		Roller No.	Remarks
4/30/2003	48"	15,000	312.5	JK	JB		8124	Weighed at local elevator scales
4/30/2003	60"	20,000	333.3	JK	JB		1842	Weighed at local elevator scales

VIBRATING COMPACTING ROLLER DATA											
Date											
Roller No.											
Amplitude											
Frequency											
Speed											
Insp/No.											
Remarks											
	Manufacturers specification sheet should be obtained for each project.										

TRENCH ROLLER DATA

Date	Width Inches	Weight Lbs.	Lbs/Inch Of Width	Accept Reject	Insp No.			Remarks			
4/30/2003	24"	7,500	312.5	ACC	JK		Weighed at Asphalt Plant				

WATER HAULING EQUIPMENT DATA

Make of Truck	Tank NO.	Gross WEIGHT	Tare WEIGHT	Lbs of WATER	Gal of WATER	Pay * M. GAL	DATE	Calc / Ck'd BY	Scales Cert Date	Desc
IHC	751	63,940	14,010	49,930	5,992	6	5/11/2003	JD / ABC	3/20/2003	Red Semi
GMC	152	35,870	10,520	25,350	3,042	3	5/11/2003	JD / ABC	3/20/2003	Green

PAY QUANTITY FOR EACH TRUCK IS TO THE

NEAREST ( ) GALLONS

GROSS - TARE = GALLONS; GALLONS = M. GAL.

8.333 1,000

THIS PLATE IS A RECORD OF THE CALIBRATION OF WATER HAULING EQUIPMENT BY WEIGHT.

THE PAY QUANTITY FOR EACH TRUCK IS RECORDED TO THE NEAREST ONE TENTH OF AN M. GALLON

OR ONE HUNDRED GALLON.

WATER METER CALIBRATION AND WEEKLY CHECKS

Date	Final Reading	Initial Reading	Meter Gallons	Weight Gross	Weight Tare	Pounds Water	Calc. Gallons	Corr. Factor	Remarks		Comp'd Checked
5/30/2003	24,617	19,617	5,000	53,640	14,010	39,630	4,756	0.9512	Meter	125834	JD / ABC
6/3/2003	40,205	36,205	4,000	45,710	14,000	31,710	3,805	0.9513	Weekly Check		JD / JB
6/4/2003	76,200	71,200	5,000	53,660	14,020	39,640	4,757	0.9514	Weekly Check		JD / ABC

TRUCK MEASUREMENTS

Date	Truck No.	Length	Width	Actual Height	Pay Height	Cubic Yds	Pay Cu Yds	Comp'd By	Checked By	Remarks
3/3/2003	20	12' 0"	7' 0"	4' 6"	4.500	14.00	14	JB	JD	
3/3/2003	101	12' 0"	7' 0"	4' 10"	4.833	15.04	15	JB	JD	
3/3/2003	100	12' 0"	7' 0"	4' 10"	4.833	15.04	15	JB	JD	

The measurement of the truck bed is necessary to determine the cubic yards capacity for payment when used to deliver aggregate to a project.

This plate is a record of the actual measurement and volume computation.

TRUCK IDENTIFICATION DATA

Date	Truck No.	License Plate No.	Fuel Capacity	Fuel Type	Initial Tare Wt.	Description	Remarks	Insp
3/3/2003	20	SN/T2134	160	Diesel	13,550	Red IHC		JB
3/3/2003	100	SN/T4310	200	Diesel	14020	Blue Ford		JD
3/3/2003	101	SN/T4311	200	Diesel	13950	White Ford		JB

THIS PLATE WILL SERVE AS A MEANS OF IDENTIFYING AND DESCRIBING HAUL UNITS. THE INFORMATION ON FUEL TYPE AND CAPACITY AND THE TARE WEIGHT IS OF VALUE ONLY ON THOSE HAUL UNITS DELIVERING MATERIAL ON A WEIGHT BASIS.

TRUCK TARE WEIGHTS

Date	Truck Number	Time	Tare Weight	Driver On / Off	Insp		Remarks				
3/3/2003	20	7:30 AM	13,500.0	ON	JD						
3/3/2003	101	7:33 AM	14,000.0	ON	JD						
3/3/2003	100	7:36 AM	14,020.0	ON	JD						

A RECORD SHOWING THE TARE WEIGHTS OF TRUCKS. THE TOP PORTION IS SELF EXPLANATORY WITH A MINIMUM OF TWO CHECKS PER DAY TAKEN AT RANDOM.

SCALE CHECK (PLATFORM SCALE)

Date	Serial No.	Time	Scale Weight Com/Ck	Actual Weight Check	Pounds Diff.	Percent Variation		Remarks			Insp
3/3/2003	3654	9:00	47510	47420	90	0.2		Calibrated Scales			JD
3/3/2003	3654	10:00	44100	44080	20	0.0		"			JD
3/10/2003	3654	12:00	44000	43990	10	0.0		"			JD
3/10/2003	3654	1:00	21050	21100	50	0.2		"			JD

THIS IS AN EXAMPLE OF A CHECK ON A SCALE THAT WAS CALIBRATED AT THE BEGINNING OF THE PROJECT. IT IS SUGGESTED THAT THIS CHECK BE DONE AT RANDOM WITH A MINIMUM OF TWO PER WEEK AS THE WORK PROGRESSES.

THIS CHECK MAY BE DONE BY PASSING A KNOWN WEIGHT OVER THE SCALES SUCH AS A LOADER, ROLLER, MOTORGRADER, ETC. OR BY WEIGHING A LOADED TRUCK ON ANOTHER SCALE IN THE VICINITY.

SCALE BALANCE TO ZERO CHECKS

Date	Serial No.	Time	Scale Balance	Platform Condition	Remarks	Insp
3/3/2003	3654	6:30 AM	OK	Swept at 6:00 AM	Scales in Good Condition	JD
3/3/2003	3654	1:15 PM	OK	Clean	Scales in Good Condition	JD
3/4/2003	3654	6:45 AM	OK	Swept at 6:30 AM	Scales in Good Condition	JD
4/3/2003	3654	1:30 PM	OK	Clean	Scales in Good Condition	JD

THIS PLATE IS DESIGNED TO BE USED IN BALANCING OF SCALES EVERY DAY BEFORE WORK STARTS AND AT RANDOM THE REST OF THE DAY WITH A MINIMUM OF TWO PER DAY.

CEMENT SCALES CHECK											
Serial No.						Unit weight in pounds (kilogram)					
Actual	Scale	Percent	Accept								
Weight	Reading	Error	Reject	Insp.		Manfacturer:				Remarks	
50#	50#	0%	ACC	JCK							
100#	100#	0%	ACC	JCK							
150#	150#	0%	ACC	JCK							
200#	200#	0%	ACC	JCK							
250#	250#	0%	ACC	JCK							
300#	250#	0%	ACC	JCK							
350#	350#	0%	ACC	JCK							
400#	400#	0%	ACC	JCK							
450#	450#	0%	ACC	JCK							
500#	500#	0%	ACC	JCK							
750#	750#	0%	ACC	JCK							
1000#	1000#	0%	ACC	JCK							
1250#	1250#	0%	ACC	JCK							
1500#	1500#	0%	ACC	JCK							
1750#	1750#	0%	ACC	JCK							
2000#	1995#	0.25%	ACC	JCK							
2500#	2495#	0.20%	ACC	JCK							
3000#	2990#	0.33%	ACC	JCK							
3500#	3490#	0.29%	ACC	JCK							
4000#	3990#	0.25%	ACC	JCK							
4500#	4490#	0.22%	ACC	JCK							
5000#	4985#	0.30%	ACC	JCK							
6000#	5985#	0.25%	ACC	JCK							

READY MIX TRUCK INSPECTION

Ready-Mix Company:						**Project #:**						
	Date											
	Truck No.	29										
	Make	Rex										
	Serial No.	70XF7661										
	Drum Mfg											
	Drum Ser #											
	Drum Cap.	9 Cu Yd										
	Drum Cond.	Good										
Water tank cond.		Good										
Water tank calib.		1/1/2010										
Water valve cond.		Good										
Rev Counter		Electronic										
R.P.M.	**Agitating**	2 - 4										
	Mixing	5 - 14										
	Mfg's Plate	Yes										
	Acc/Rej	Acc										
Slump Check	***Beginning**											
	***Intermediate**											
	***Ending**											
	Fin Condition											
	Inspector	JK										
	Remarks	*** Use if you are experiencing inconsistent slumps from a particular truck-mixer**										
Distribution				**Construction Engineer:**								
				Date:		**January 30, 2010**						

152 .09 Rev

FIELD CALIBRATION OF CONCRETE-MOBILE / CONTINUOUS VOLUMETRIC CONCRETE MIXERS

Date:

Serial Number:

Mfg.:

The calibration to be performed in accordance with manufacturers recommendations.

Step 1. Record the weights, meter count, and time for each of 5 runs. **Note: use pounds or (kilograms)**

Run	1	2	3	4	5	
Weight						Pounds (kilograms)
Meter Count						Counts
Seconds						Seconds

Step 2 Divide the Total Count by the Total Weight

Total Count divided by Total Weight = Factor

counts / pound

Step 3 Determine the Cement Meter Count

Factor X 94 = Meter Count

94 counts / sack

Step 4 Divide total Seconds by the Total Weight

Total Seconds divided by Total Weight = Factor

Step 5 Determine the time to discharge 94 lbs (Kilograms) of Cement

Factor X 94 = Time

94 seconds / sack

Meter Count _____= counts/ sack Time____= seconds/ sack Counts / Second_____

VIBRATOR CHECK FOR STRUCTURES AND BRIDGE DECKS

Date	Vibrator Serial Number	Head Size (Inches)	Frequency Of Vibrator (Vibrations / Minute)	Average Amplitude (Inches)	Radius Of Action (Inches)	Remarks		Insp	
3/4/2003	4371K0541	2	11,500	0.03	10	Accepted		JK	
3/4/2003	4371K0542	2	11,500	0.03	10	Accepted		JK	
3/4/2003	4371K0543	2	11,500	0.03	10	Accepted		JK	
3/4/2003	4371K0544	2	11,500	0.03	10	Accepted		JK	
3/4/2003	4371K0551	2	11,500	0.03	10	Accepted	Extra	JK	
	EACH VIBRATOR SHOULD BE CHECKED AND RECORDED.								

CALIBRATION FOR SEED DRILL ACRE COUNTER

Date	Drill #	Measured Length	Width of Drill	Acres	Drill Counter Reading	Diff	Calibration Factor	Insp
########	1254	34848'	10'	8	8.7	-0.7	0.92	JMM
########	1256	34848'	10'	8	7.5	0.5	1.07	JMM

This template is used for calibrating the acre counter. The acre counter can be used for calculating mulch and calibrating the seed rates.

CALIBRATION OF THE SEED DRILL

Date	Drill #	Measured Length	Width of Drill	Drill Reading/ Acres	Drill Corrected Acres	Measured Seed Depth	Seed Used lbs	Seed Actual lbs/acre	Seed req. lbs/acre	Diff	Insp
########	1254	34848'	10'	8.7	8	0.25"	50	6.25	7	0.75	JMM
########	1256	34848'	10'	7.5	8	0.25"	50	6.25	5	-1.25	JMM

This template is used to calibrate the drill seed rate. Seed rates are based meeting the required PLS rates per acre for the contract. The PLS should be checked against the contract for requirements. If calculating the areas instead of using the drill reading, substitute calculated acres in stead of drill reading acres