WIM System Field Calibration and Validation Handout Guide

California, SPS-2
SHRP ID – 060200

Validation Date: November 29, 2011

Table of Contents

1 Site Information

Site ID:	060200	**State:**	California
LTPP Region:	Western	**Configuration:**	Loop - 2 Bending Plates - Loop
Controller Type:	iSINC	**Sensor Type:**	Bending Plate
Power:	A/C	**Communication:**	Landline
Class Scheme:	LTPP_Mar_06	**CPU type/setup:**	iSync

2 Contact Information

Agency	Contact	Position	Phone	E-Mail
FHWA	Debbie Walker	COTR	202 493-3068	deborah.walker@dot.gov
FHWA	Steve Healow	FHWA Division Rep.	916-498-5849	Steve.healow@dot.gov
Nichols	Kevin Senn	Project Manager	775-329-4955	KSenn@nce.reno.nv.us
CalTrans	Nick Burmas	LTPP Coordinator	916-324-2906	Nick.Burmas@dot.ca.gov
CalTrans	Alfredo Rodriguez	Traffic Contact	916-324-2244	alfredo_b_rodriguez@dot.ca.gov
ARA	Dean Wolf	Task Leader	717-691-7625	dwolf@ara.com
ARA	Olga Selezneva	Project Manager	410-540-9949	oselezneva@ara.com

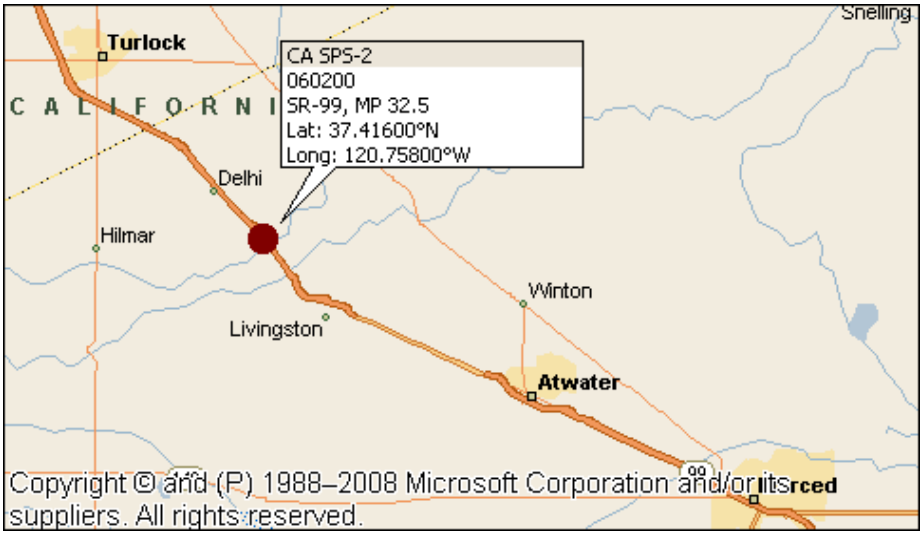
3 Schedule of Events

Date	Event	Location	Start Time
11/28/11	Travel	Turlock, CA	TBD
11/29/11	Test Truck Weigh/Measure/Inspection	TBD	7:00 am
11/29/11	Equipment Assessment	WIM Site	8:00 am
11/29/11	Initial Performance Evaluation	WIM Site	8:30 am
11/29/11	System Test/Class and Speed Study	WIM Site	TBD
11/30/11	Test Truck Weigh/Measure/Inspection	TBD	7:00 am
11/30/11	Calibration/Validation (if required)	WIM Site	8:00 am
12/1/11	Travel	Camp Hill, PA	TBD

4 Maps

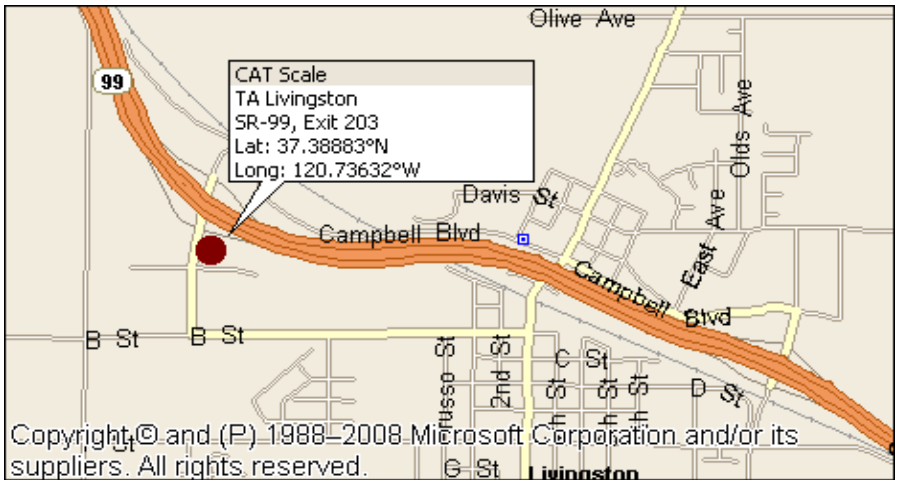
4.1 Site Location

Location:	SR-99 at M.P. 32.5			**Direction:**	NB
Latitude:	37.41600°	**Longitude:**	-120.75800°		



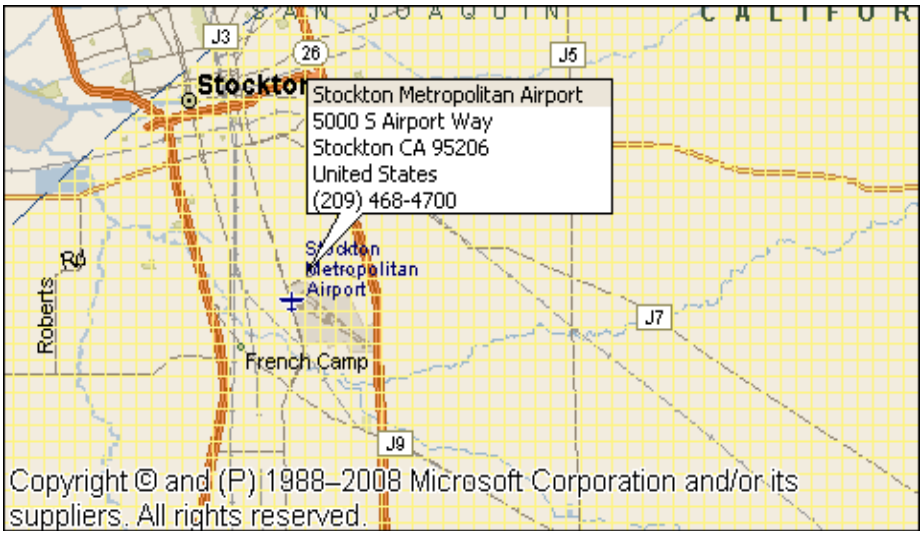
4.2 Truck Scale Location

Name:	TA Livingston	**Location:**	CA 99 Exit 203
Latitude:	37.38883	**Longitude:**	-120.73632



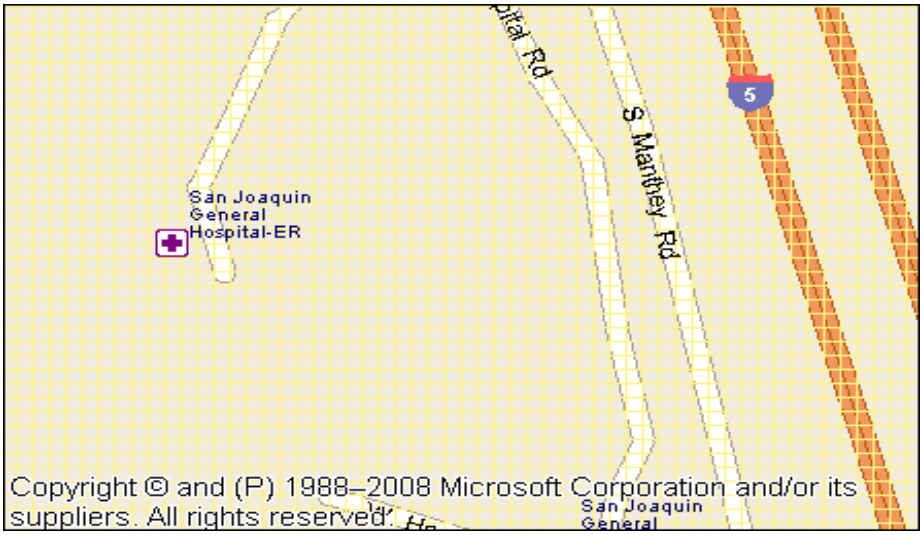
4.3 Airport Location

Name:	Stockton Metr. Airport	**Location:**	5000 S. Airport Way
Latitude:	37.8980	**Longitude:**	-121.2526



4.4 Hospital Location

Name:	San Joaquin Gen. Hosp.		
Phone:	209-468-6220	**Location:**	500 West Hospital Road, French Camp, CA



5 Occupational Health and Safety Plan

All fieldwork in the right-of-way will be carried out when the ground visibility is more than 3 km, and when there is no accumulation of water, snow, or ice is on the pavement.

To the extent possible, inspection work during extremely high and low temperatures will be avoided. If the work becomes necessary, workers will be reminded to make appropriate precautions (wear protective clothing, drink fluids, and avoid prolonged exposure to severe weather conditions).

All personnel present on the right-of-way will wear approved safety gear (boots, reflective safety vest, and helmet).

The following items will be available at the site: a standard first-aid kit, a cell phone, and the location of nearby hospital(s).

6 Contingency Plan

If inclement weather is forecasted prior to mobilizing to the site, the Project Manager will make the final decision to postpone the Validation visit. The Task Leader is responsible for contacting all parties involved to inform them of the postponement. He is also responsible for rearranging travel.

Once the Validation team is on-site, the On-Site Task Leader is responsible for making decisions to delay or postpone the Validation. He will contact the Project Manager to make recommendations for completing the Validation, and the Project Manager will make the final decision to cancel or postpone. The On-Site Task Leader is responsible for contacting the COTR and all other participating parties to inform them of the delay or postponement.

Traffic Sheet 17 LTPP MONITORED TRAFFIC DATA WIM SITE INVENTORY	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/29/2011

1. ROUTE: SR-99 **MILEPOST:** 32.5 **LTPP DIRECTION:** north

2. WIM SITE DESCRIPTION

Grade: 1 to 2% Sag Vertical: N
Nearest Upstream SPS Section:
Distance from sensors to SPS Section: feet

3. LANE CONFIGURATION

Lanes in LTPP direction: 2 Median: 3 - grass
Lane width: Shoulder: 3 - paved PCC
Shoulder width:

4. PAVEMENT TYPE PCC

5. PAVEMENT SURFACE CONDITION - Distress Survey

Date: 11/29/11 Photo Filename: 060200_upstream_11_29_11.jpg
Date: 11/29/11 Photo Filename: 060200_downstream_11_29_11.jpg
Date: Photo Filename:

6. SENSOR SEQUENCE

Loop - 2 Bending Plate - Loop

7. REPLACEMENT AND/OR GRINDING

Date:
Date:
Date:

8. RAMPS OR INTERSECTIONS

Intersection within 300' upstream of site:
Intersection within 300' downstream of site:
Is shoulder routinely used for turning?

9. DRAINAGE

Drainage *(bending plate and load cell)* : 1 - Open to Ground
Clearance under plate (in.): 6"
Clearance /access to flush fines from under system: N

Traffic Sheet 17	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
WIM SITE INVENTORY	DATE (mm/dd/yyyy)	11/29/2011

10. CABINET LOCATION

Same side of road as LTPP lane: Y
Distance from edge of traveled lane: 30 ft
distance from system: 36 ft
type: M

Cabinet access controlled by: Agency and LTPP
Contact name: _____ Phone # _____
Alternate name: _____ Phone # _____

11. POWER

Distance to cabinet from drop: 0 ft
Type: Solar
AC in cabinet? N
Service provider: _____ Phone # _____

12. TELEPHONE

Distance to cabinet from drop: _____ ft
Type: cellular
Service provider: _____ Phone # _____

13. SYSTEM

Software and version no. _____
Computer connection: _____

14. TEST TRUCK TURNAROUND TIME

Duration: 11 minutes Distance: _____ miles

15. PHOTOS

	Filename
Power source:	060200_solar_panel_11_29_11.jpg
Phone source:	060200_cellular_phone_11_29_11.jpg
Cabinet exterior:	060200_cabinet_exterior_11_29_11.jpg
Cabinet interior:	060200_cabinet_interior_front_11_29_11.jpg
Weight sensors:	060200_leading_bending_plate_11_29_11.jpg
	060200_trailing_bending_plate_11_29_11.jpg
Other sensors:	060200_leading_loop_11_29_11.jpg
	060200_trailing_loop_11_29_11.jpg
Downstream from sensors on LTPP lane:	060200_downstream_11_29_11.jpg
Upstream from sensors on LTPP lane:	060200_upstream_11_29_11.jpg

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/29/2011

1. DATA PROCESSING

a. Download: LTPP download

b. Data review: LTPP
If state, how often?

c. Data submission LTPP
If state how often?

2. EQUIPMENT

a. Purchase LTPP

b. Installation LTPP contract

c. Maintenance Separate contract LTPP
Expiration Date

d. Calibration LTPP

e. Manuals and software control: LTPP

f. Power
i. Type Solar ii. Payment N/A

g. Communication
i. Type Cellular ii. Payment State

3. PAVEMENT

a. Type Portland Concrete Cement

b. Allowable Rehabilitation activities Grinding and maintenance as needed

c. Profile Site Markings Temporary

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/29/2011

4. Onsite Activities

a. WIM Validation Check advance notice required

14 Days _____ Weeks

b. Notice for straightedge and grinding check

14 Days _____ Weeks

i. On site lead LTPP

ii. Accept grinding LTPP

c. Authorization to calibrate site LTPP

d. Calibration routine LTPP annually

Other: _____

e. Test Vehicle Responsibilities

i. Trucks

1st-	Air suspension 3S2	LTPP
2nd-	Air Suspension 3S2	LTPP
3rd-		
4th-		

ii. Loads LTPP

iii. Drivers LTPP

f. Contractor(s) with prior experience in wim calibration in state:
MACTEC, ARA, IRD

g. Access to cabinet Joint

h. State personel required on site No

i. Traffic control required No

J. Enforcement coordination required No

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/29/2011

5. SITE SPECIFIC CONDITIONS

a. Funds and accountability: _____
b. Reports: _____
c. Other: _____
c. Special Conditions _____

6. CONTACTS

a. Equipment (operational status, access, etc.)
Name Roy Czinku Phone # 306-270-9492
Agency IRD

b. Maintenance (equipment)
Name Roy Czinku Phone # 306-270-9492
Agency IRD

c. Data Processing and pre-visit data
Name Kevin Senn Phone # 775-329-4955
Agency Nichols

d. Construction schedule and verification
Name _____ Phone # _____
Agency _____

e. Test Vehicles (trucks, loads, drivers)
Name Russ Prouty Phone # 800-323-1541
Agency E. Prouty & Sons, Inc.

f. Traffic control
Name _____ Phone # _____
Agency _____

g. Enforcement coordination
Name _____ Phone # _____
Agency _____

h. Nearest static scale
Name Bondanger Trucks Location: Taylor Rd.
Phone: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/29/2011

CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 **2. Number of axles:** 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		12230	12120	Direct
B		16635	16560	Direct
C		16635	16560	Direct
D		15635	15640	Direct
E		15635	15640	Direct
F				

4. GVW (same units as axles)

a. Empty GVW:
b. Average Pre-Test Loaded weight: 76770
c. Post Test Loaded Weight: 76520
d. Difference Post Test - Pre-Tests: 250

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☑

b. Make: PETERBUILT
c. Model: EXTHD

d. Trailer Load Distribution Description:
lumber, Plywood
photo: ☑

e. Tractor Tare weight - -
f. Trailer Tare weight - -
g. Axle Spacing - (feet and tenths)

A to B 14.3 B to C 4.3 C to D 32.0 D to E 4.0 E to F

h. Wheelbase - ☐ Measured ☑ Computed 54.6
i. Kingpin offset from Axle B (units) 1.16 photo: ☐
j. Overall Length - ☑ Measured 59.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/29/2011

CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A		steel spring	☑
B		air	☑
C		air	☑
D		air	☑
E		air	☑
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	106.4	105.3	110.2	115	
103	110	103.7	111.6	113	
101.2	109.4	101	110.7	110.3	
	102	104.8	109	110.6	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	11/29/2011

CALIBRATION TEST TRUCK - Primary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19	STATE CODE:	06
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CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	11/29/2011

CALIBRATION TEST TRUCK - Primary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	12220	16650	16650	15630	15630		76780
2	12240	16620	16620	15640	15640		76760
Avg.	12230	16635	16635	15635	15635		76770

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	12120	16560	16560	15640	15640		76520
2	12120	16560	16560	15640	15640		76520
Avg.	12120	16560	16560	15640	15640		76520

Validation Test Truck Run Set - Cal 1

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/29/2011

CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 9 **2. Number of axles:** 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		10730	10600	Direct
B		14300	14305	Direct
C		14300	14305	Direct
D		14095	14045	Direct
E		14095	14045	Direct
F				

4. GVW (same units as axles)

a. Empty GVW:
b. Average Pre-Test Loaded weight: 67520
c. Post Test Loaded Weight: 67300
d. Difference Post Test - Pre-Tests: 220

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☑

b. Make: peterbuilt
c. Model: EXTHD

d. Trailer Load Distribution Description:
lumber, plywood
photo: ☑

e. Tractor Tare weight - -
f. Trailer Tare weight - -
g. Axle Spacing - (feet and tenths)

A to B 19.5 B to C 4.3 C to D 26.7 D to E 10.2 E to F

h. Wheelbase - ☐ Measured ☑ Computed 60.6
i. Kingpin offset from Axle B (units) 1.0 photo: ☐
j. Overall Length - ☑ Measured 66.5

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/29/2011

CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A		steel spring	☑
B		air	☑
C		air	☑
D		air	☑
E		air	☑
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	107.4	108.3	111.4	112.1	
110	106.9	108	113	112.6	
106.5	107.1	106	112.4	108	
	108	105.6	102.8	110.3	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	11/29/2011

CALIBRATION TEST TRUCK - Secondary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	11/29/2011

CALIBRATION TEST TRUCK - Secondary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10740	14280	14280	14110	14110		67520
2	10720	14320	14320	14080	14080		67520
Avg.	10730	14300	14300	14095	14095		67520

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10600	14310	14310	14040	14040		67300
2	10600	14300	14300	14050	14050		67300
Avg.	10600	14305	14305	14045	14045		67300

Validation Test Truck Run Set - Cal 1

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/30/2011

CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 **2. Number of axles:** 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		12130	0	Direct
B		16630	0	Direct
C		16630	0	Direct
D		15620	0	Direct
E		15620	0	Direct
F				

4. GVW (same units as axles)

a. Empty GVW:
b. Average Pre-Test Loaded weight: 76630
c. Post Test Loaded Weight: 0
d. Difference Post Test - Pre-Tests: 76630

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☑

b. Make: PETERBUILT
c. Model: EXTHD

d. Trailer Load Distribution Description:
lumber, Plywood
photo: ☑

e. Tractor Tare weight - -
f. Trailer Tare weight - -
g. Axle Spacing - (feet and tenths)

A to B 14.3 B to C 4.3 C to D 32.0 D to E 4.0 E to F

h. Wheelbase - ☐ Measured ☑ Computed 54.6
i. Kingpin offset from Axle B (units) 1.16 photo: ☐
j. Overall Length - ☑ Measured 59.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/30/2011

CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A		steel spring	☑
B		air	☑
C		air	☑
D		air	☑
E		air	☑
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	106.4	105.3	110.2	115	
103	110	103.7	111.6	113	
101.2	109.4	101	110.7	110.3	
	102	104.8	109	110.6	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	11/30/2011

CALIBRATION TEST TRUCK - Primary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	11/30/2011

CALIBRATION TEST TRUCK - Primary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	12120	16640	16640	15600	15600		76600
2	12140	16620	16620	15640	15640		76660
Avg.	12130	16630	16630	15620	15620		76630

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Validation Test Truck Run Set - Cal 1

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/30/2011

CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 9 **2. Number of axles:** 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		10530	0	Direct
B		14510	0	Direct
C		14510	0	Direct
D		14025	0	Direct
E		14025	0	Direct
F				

4. GVW (same units as axles)

a. Empty GVW:
b. Average Pre-Test Loaded weight: 67600
c. Post Test Loaded Weight: 0
d. Difference Post Test - Pre-Tests: 67600

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☑

b. Make: peterbuilt
c. Model: EXTHD

d. Trailer Load Distribution Description:
lumber, plywood
photo: ☑

e. Tractor Tare weight - -
f. Trailer Tare weight - -
g. Axle Spacing - (feet and tenths)

A to B 19.5 B to C 4.3 C to D 26.7 D to E 10.2 E to F

h. Wheelbase - ☐ Measured ☑ Computed 60.6
i. Kingpin offset from Axle B (units) 1.0 photo: ☐
j. Overall Length - ☑ Measured 66.5

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/30/2011

CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A		steel spring	☑
B		air	☑
C		air	☑
D		air	☑
E		air	☑
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	107.4	108.3	111.4	112.1	
110	106.9	108	113	112.6	
106.5	107.1	106	112.4	108	
	108	105.6	102.8	110.3	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	11/30/2011

CALIBRATION TEST TRUCK - Secondary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	11/30/2011

CALIBRATION TEST TRUCK - Secondary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10720	14400	14400	14040	14040		67600
2	10340	14620	14620	14010	14010		67600
Avg.	10530	14510	14510	14025	14025		67600

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Validation Test Truck Run Set - Cal 1

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/30/2011

CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 **2. Number of axles:** 5

3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		12130	11910	Direct
B		16630	16600	Direct
C		16630	16600	Direct
D		15620	15585	Direct
E		15620	15585	Direct
F				

4. GVW (same units as axles)

a. Empty GVW:
b. Average Pre-Test Loaded weight: 76630
c. Post Test Loaded Weight: 76280
d. Difference Post Test - Pre-Tests: 350

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☑

b. Make: PETERBUILT
c. Model: EXTHD

d. Trailer Load Distribution Description:
lumber, Plywood
photo: ☑

e. Tractor Tare weight - _____ - _____
f. Trailer Tare weight - _____ - _____
g. Axle Spacing - (feet and tenths)

A to B 14.3 B to C 4.3 C to D 32.0 D to E 4.0 E to F _____

h. Wheelbase - ☐ Measured _____ ☑ Computed 54.6
i. Kingpin offset from Axle B (units) 1.16 photo: ☐
j. Overall Length - ☑ Measured 59.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/30/2011

CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A		steel spring	☑
B		air	☑
C		air	☑
D		air	☑
E		air	☑
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	106.4	105.3	110.2	115	
103	110	103.7	111.6	113	
101.2	109.4	101	110.7	110.3	
	102	104.8	109	110.6	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	11/30/2011

CALIBRATION TEST TRUCK - Primary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	11/30/2011

CALIBRATION TEST TRUCK - Primary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	12120	16640	16640	15600	15600		76600
2	12140	16620	16620	15640	15640		76660
Avg.	12130	16630	16630	15620	15620		76630

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11900	16610	16610	15600	15600		76320
2	11920	16590	16590	15570	15570		76240
Avg.	11910	16600	16600	15585	15585		76280

Validation Test Truck Run Set - Post

Measured By: kevin Trousdale

Verified By:

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/30/2011

CALIBRATION TEST TRUCK - Secondary

PART A

1. **FHWA CLASS:** 9 2. **Number of axles:** 5

3. **AXLE WEIGHTS** (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		10530	10610	Direct
B		14510	14340	Direct
C		14510	14340	Direct
D		14025	13980	Direct
E		14025	13980	Direct
F				

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 67600
   - c. Post Test Loaded Weight: 67250
   - d. Difference Post Test - Pre-Tests: 350

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: Yes
     photo: ☑
   - b. Make: peterbuilt
   - c. Model: EXTHD
   - d. Trailer Load Distribution Description:
     lumber, plywood
     photo: ☑
   - e. Tractor Tare weight - _____ - _____
   - f. Trailer Tare weight - _____ - _____
   - g. Axle Spacing - (feet and tenths)

A to B 19.5 B to C 4.3 C to D 26.7 D to E 10.2 E to F _____

   - h. Wheelbase - ☐ Measured _____ ☑ Computed 60.6
   - i. Kingpin offset from Axle B (units) 1.0 photo: ☐
   - j. Overall Length - ☑ Measured 66.5

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyyy) 11/30/2011

CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A		steel spring	☑
B		air	☑
C		air	☑
D		air	☑
E		air	☑
F			☐

d. Cold Tire Pressures (psi)- from right to left

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F
	107.4	108.3	111.4	112.1	
110	106.9	108	113	112.6	
106.5	107.1	106	112.4	108	
	108	105.6	102.8	110.3	

PART B

Table 1 - Raw Measurements -Platform Scale

Axles	Meas.	Pre-test Weight	Instance	Instance	Post-test weight
A	I				
A+B	II				
A+B+C	III				
A+B+C+D	IV				
A+B+C+D+E(1)	V				
A+B+C+D+E+(F)(1)	VI				
B+C+D+E+(F)	VII				
C+D+E+(F)	VIII				
D+E+(F)	IX				
E+(F)	X				
(F)	XI				
A+B+C+D+E+(F)(2)	XII				

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	11/30/2011

CALIBRATION TEST TRUCK - Secondary

Table 2 - Axle and GVW Computations -Platform Scale Pre-test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 3- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 4- Axle and GVW Computations - Platform Scale - Instance - _____

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Table 5- Axle and GVW Computations - Platform Scale Post-Test

	1		2		Avg.
Axle A	I	0	VI-VII	0	0
Axle B	II-I	0	VII-VIII	0	0
Axle C	III-II	0	VIII-IX	0	0
Axle D	IV-III	0	IX-X	0	0
Axle E	V-IV	0	X-XI	0	0
Axle F	VI-V		XI		
GVW	VI	0	XII	0	0

Traffic Sheet 19	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	11/30/2011

CALIBRATION TEST TRUCK - Secondary

Table 6 - Raw Data -Axle Scales - Pre-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10720	14400	14400	14040	14040		67600
2	10340	14620	14620	14010	14010		67600
Avg.	10530	14510	14510	14025	14025		67600

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
Avg.							

Table 9 - Raw Data -Axle Scales - Post-test

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	10640	14320	14320	13990	13990		67260
2	10580	14360	14360	13970	13970		67240
Avg.	10610	14340	14340	13980	13980		67250

Validation Test Truck Run Set - Post

Measured By: Kevin Trousdale

Verified By:

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 06 SPS WIM ID: 060200 DATE: (mm/dd/yyyy): 11/29/2011

Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
48.9	52	2	1	9:18:20	9635	51.0	10.6	14.8	14.4	13.9	14.0		67.8	19.9	4.4	27.1	10.3		61.7	68.0
48.9	50	1	1	9:28:37	9748	52.0	12.3	16.7	16.6	15.9	16.2		77.8	14.3	4.4	32.5	4.2		55.4	61.0
49.8	50	2	2	10:00:36	10152	51.0	10.8	14.7	14.4	13.9	14.0		67.7	19.8	4.4	27.1	10.4		61.7	68.0
49.8	51	1	2	10:00:40	10153	49.0	12.2	17.5	16.9	15.7	16.1		78.5	14.4	4.4	32.8	4.2		55.8	61.0
48.6	55	2	3	10:10:55	10285	55.0	11.1	14.5	13.9	13.7	14.0		67.2	19.9	4.5	27.1	10.3		61.8	68.0
48.6	53	1	3	10:10:58	10286	56.0	13.4	18.9	17.3	15.4	15.9		81.0	14.5	4.4	32.9	4.2		56.0	62.0
48.4	59	2	4	10:21:13	10416	63.0	11.1	14.3	14.1	15.1	15.9		70.5	20.1	4.4	28.1	11.0		63.6	70.0
48.4	58	1	4	10:21:16	10417	60.0	12.3	16.7	16.7	15.0	15.3		76.0	14.4	4.4	32.5	4.1		55.4	61.0
49.3	50	2	5	10:31:29	10556	50.0	10.9	15.1	14.7	13.7	14.3		68.7	19.9	4.5	27.4	10.3		62.1	69.0
49.3	50	1	5	10:31:32	10557	51.0	11.9	17.0	16.9	15.8	16.0		77.6	14.4	4.5	32.7	4.2		55.8	61.0
50.0	54	2	6	10:41:45	10686	55.0	10.5	14.6	14.6	13.8	14.3		67.9	19.8	4.4	27.1	10.4		61.7	68.0
50.0	54	1	6	10:41:46	10687	54.0	12.4	17.3	17.1	16.5	16.2		79.7	14.4	4.5	32.5	4.2		55.6	61.0
51.5	60	2	7	12:44:34	12137	60.0	10.5	14.8	14.5	14.8	15.4		70.0	19.8	4.4	27.1	10.4		61.7	68.0
51.5	59	1	7	12:44:37	12138	59.0	12.3	17.1	16.6	15.2	15.7		77.0	14.4	4.4	32.4	4.2		55.4	61.0
51.9	50	2	8	12:54:26	12253	50.0	10.5	15.2	14.5	13.9	14.0		68.0	19.9	4.4	27.1	10.4		61.8	68.0
51.9	50	1	8	12:54:28	12254	50.0	12.6	16.7	16.4	15.1	14.8		75.7	14.4	4.4	32.9	4.1		55.8	61.0
51.1	55	2	9	13:04:33	12388	55.0	11.3	14.4	13.8	13.9	13.7		67.2	19.9	4.5	27.2	10.4		62.0	68.0
51.1	55	1	9	13:04:36	12389	54.0	12.3	17.1	15.7	15.2	16.3		76.4	14.4	4.4	32.4	4.1		55.3	61.0
52.7	60	2	10	13:15:41	12527	60.0	10.6	14.4	14.1	14.6	14.8		68.4	19.8	4.4	27.0	10.3		61.5	68.0
52.7	59	1	10	13:15:44	12528	58.0	12.4	16.8	16.8	15.8	15.6		77.3	14.5	4.4	32.5	4.2		55.6	61.0
52.1	49	2	11	13:25:59	12665	52.0	10.7	15.2	14.7	13.3	14.3		68.3	19.9	4.4	27.2	10.4		61.9	69.0
52.1	50	1	11	13:26:03	12666	50.0	12.4	17.3	16.4	15.6	15.6		77.3	14.3	4.5	32.7	4.1		55.6	61.0
51.7	53	2	12	13:36:09	12783	55.0	10.8	14.5	14.1	14.3	13.7		67.4	19.9	4.4	27.0	10.3		61.6	68.0
51.7	52	1	12	13:36:12	12784	54.0	12.4	17.7	17.0	15.9	15.8		78.8	14.5	4.4	32.8	4.1		55.8	62.0

Recorded By: ar Verified By: kt Run Set Cal 1

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 06 SPS WIM ID: 060200 DATE: (mm/dd/yyyy): 11/29/2011

Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
51.8	60	2	13	13:46:42	12920	61.0	10.5	14.8	14.4	14.2	14.3		68.4	19.9	4.4	27.0	10.3		61.6	68.0
51.8	59	1	13	13:46:46	12921	57.0	11.9	16.5	15.9	15.4	15.7		75.3	14.3	4.3	32.3	4.1		55.0	61.0
52.5	51	2	14	13:57:16	13035	50.0	10.6	14.8	14.5	13.3	14.5		67.7	19.9	4.4	27.1	10.3		61.7	69.0
52.5	50	1	14	13:57:18	13036	49.0	12.0	17.7	16.7	15.7	15.9		78.1	14.4	4.4	32.6	4.1		55.5	61.0
51.2	59	2	15	15:04:32	13932	60.0	10.6	14.9	14.0	14.7	15.0		69.3	19.8	4.4	26.9	10.3		61.4	68.0
51.2	59	1	15	15:04:35	13933	60.0	12.0	17.5	17.2	15.7	16.0		78.5	14.5	4.4	32.5	4.1		55.5	61.0
51.1	55	2	16	15:25:43	14204	55.0	10.9	15.1	14.5	14.1	13.9		68.6	19.9	4.5	27.1	10.3		61.8	68.0
51.1	54	1	16	15:25:46	14205	55.0	12.0	16.1	17.3	16.1	16.3		77.8	14.4	4.4	32.6	4.3		55.7	62.0
51.0	60	2	17	15:36:01	14347	60.0	10.5	14.6	14.7	14.5	14.5		68.7	20.0	4.4	27.1	10.4		61.9	68.0
51.0	58	1	17	15:36:04	14348	57.0	12.2	17.9	16.9	16.0	16.4		79.5	14.4	4.4	32.6	4.2		55.6	61.0
51.0	49	2	18	15:45:58	14495	50.0	10.8	14.8	14.3	14.1	14.3		68.3	19.9	4.4	27.1	10.3		61.7	68.0
51.0	48	1	18	15:46:01	14496	49.0	12.3	16.4	16.6	15.8	15.5		76.6	14.3	4.4	32.5	4.2		55.4	61.0
51.6	55	2	19	15:56:07	14640	55.0	10.6	14.5	14.5	14.6	13.3		67.4	19.9	4.5	27.1	10.3		61.8	68.0
51.6	54	1	19	15:56:10	14641	54.0	12.1	16.9	16.1	15.7	16.0		76.7	14.4	4.4	32.7	4.1		55.6	61.0
50.7	68	2	20	16:06:28	14784	61.0	10.4	14.5	14.2	14.7	14.9		68.9	19.9	4.5	27.2	10.4		62.0	69.0
50.7	55	1	20	16:06:32	14785	57.0	12.4	16.8	17.0	16.6	16.9		79.8	14.4	4.5	32.5	4.2		55.6	61.0

Recorded By: ar Verified By: kt Run Set Cal 1

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 06 SPS WIM ID: 060200 DATE: (mm/dd/yyyy): 11/30/2011

Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
48.9	50	2	1	8:32:41	21963	50.0	10.4	14.8	13.7	14.2	14.2		67.2	19.5	4.3	26.6	10.1		60.5	66.0
48.9	50	1	1	8:32:45	21964	51.0	12.6	16.6	17.0	15.5	15.2		76.8	14.2	4.4	32.3	4.0		54.9	60.0
49.1	55	2	2	8:43:08	22097	55.0	10.6	14.6	14.2	14.3	13.3		67.2	19.5	4.4	26.5	10.1		60.5	66.0
49.1	54	1	2	8:43:11	22098	55.0	11.9	16.7	16.4	15.6	15.9		76.5	14.1	4.3	31.9	4.0		54.3	60.0
49.4	59	2	3	8:53:05	22218	60.0	10.6	14.6	14.0	14.2	14.0		67.5	19.6	4.4	26.6	10.2		60.8	67.0
49.4	60	1	3	8:53:09	22219	56.0	12.1	16.3	16.9	16.3	16.9		78.4	14.1	4.4	31.8	4.1		54.4	59.0
50.3	49	2	4	9:03:25	22343	50.0	10.6	14.5	14.0	13.6	14.3		67.0	19.5	4.3	26.7	10.1		60.6	66.0
50.3	50	1	4	9:03:27	22344	49.0	12.3	16.9	16.7	15.1	15.9		76.9	14.1	4.3	31.9	4.1		54.4	59.0
49.4	53	2	5	9:13:43	22465	55.0	10.6	14.8	13.7	14.0	13.6		66.7	19.5	4.3	26.4	10.1		60.3	66.0
49.4	54	1	5	9:13:46	22466	56.0	12.9	17.9	17.0	16.0	15.7		79.4	14.2	4.3	32.2	4.1		54.8	60.0
48.9	59	2	6	9:32:51	22581	59.0	10.5	14.5	13.9	14.7	15.2		68.9	19.5	4.3	26.4	10.1		60.3	66.0
48.9	58	1	6	9:23:54	22582	59.0	12.3	16.3	16.0	14.8	15.6		74.9	14.2	4.3	32.0	4.0		54.5	60.0
50.9	50	2	7	10:44:20	23540	50.0	10.7	14.8	14.5	14.3	14.0		68.3	19.5	4.3	26.6	10.2		60.6	66.0
50.9	50	1	7	10:44:23	23541	49.0	12.7	17.1	16.1	14.7	15.0		75.6	14.2	4.4	32.2	4.1		54.9	60.0

Recorded By: ar Verified By: kt Run Set Cal 1

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 06 SPS WIM ID: 060200 DATE: (mm/dd/yyyy): 11/30/2011

Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
48.9	50	2	1	8:32:41	21963	50.0	10.4	14.8	13.7	14.2	14.2		67.2	19.5	4.3	26.6	10.1		60.5	66.0
48.9	50	1	1	8:32:45	21964	51.0	12.6	16.6	17.0	15.5	15.2		76.8	14.2	4.4	32.3	4.0		54.9	60.0
49.1	55	2	2	8:43:08	22097	55.0	10.6	14.6	14.2	14.3	13.3		67.2	19.5	4.4	26.5	10.1		60.5	66.0
49.1	54	1	2	8:43:11	22098	55.0	11.9	16.7	16.4	15.6	15.9		76.5	14.1	4.3	31.9	4.0		54.3	60.0
49.4	59	2	3	8:53:05	22218	60.0	10.6	14.6	14.0	14.2	14.0		67.5	19.6	4.4	26.6	10.2		60.8	67.0
49.4	60	1	3	8:53:09	22219	56.0	12.1	16.3	16.9	16.3	16.9		78.4	14.1	4.4	31.8	4.1		54.4	59.0
50.3	49	2	4	9:03:25	22343	50.0	10.6	14.5	14.0	13.6	14.3		67.0	19.5	4.3	26.7	10.1		60.6	66.0
50.3	50	1	4	9:03:27	22344	49.0	12.3	16.9	16.7	15.1	15.9		76.9	14.1	4.3	31.9	4.1		54.4	59.0
49.4	53	2	5	9:13:43	22465	55.0	10.6	14.8	13.7	14.0	13.6		66.7	19.5	4.3	26.4	10.1		60.3	66.0
49.4	54	1	5	9:13:46	22466	56.0	12.9	17.9	17.0	16.0	15.7		79.4	14.2	4.3	32.2	4.1		54.8	60.0
48.9	59	2	6	9:32:51	22581	59.0	10.5	14.5	13.9	14.7	15.2		68.9	19.5	4.3	26.4	10.1		60.3	66.0
48.9	58	1	6	9:23:54	22582	59.0	12.3	16.3	16.0	14.8	15.6		74.9	14.2	4.3	32.0	4.0		54.5	60.0
50.9	50	2	7	10:44:20	23540	50.0	10.7	14.8	14.5	14.3	14.0		68.3	19.5	4.3	26.6	10.2		60.6	66.0
50.9	50	1	7	10:44:23	23541	49.0	12.7	17.1	16.1	14.7	15.0		75.6	14.2	4.4	32.2	4.1		54.9	60.0
52.2	55	2	8	11:43:45	24268	54.0	10.6	14.0	14.0	14.1	13.5		66.3	19.4	4.3	26.5	10.1		60.3	66.0
52.2	54	1	8	11:43:48	24269	52.0	12.2	17.5	16.6	15.7	16.0		77.9	14.2	4.3	32.2	4.1		54.8	59.0
53.6	60	2	9	11:54:02	24406	59.0	10.3	15.2	14.3	14.3	14.9		68.9	19.5	4.4	26.6	10.2		60.7	67.0
53.6	58	1	9	11:54:05	24408	56.0	11.8	16.5	16.6	14.7	15.2		74.8	14.1	4.3	31.8	4.0		54.2	59.0
54.6	50	2	10	12:04:59	24553	50.0	10.7	15.0	14.1	13.8	14.4		68.1	19.5	4.4	26.7	10.1		60.7	67.0
54.6	50	1	10	12:05:01	24554	50.0	12.3	16.4	17.0	15.1	15.7		76.5	14.1	4.3	31.9	4.1		54.4	62.0
58.2	54	2	11	12:15:30	24680	55.0	10.5	14.4	14.0	14.2	13.3		66.4	19.5	4.4	26.6	10.1		60.6	66.0
58.2	55	1	11	12:15:34	24681	55.0	12.1	16.0	16.4	15.1	15.4		75.0	14.1	4.3	31.8	4.0		54.2	59.0
57.2	59	2	12	12:25:33	24781	59.0	10.4	15.3	14.2	14.4	14.9		69.4	19.5	4.4	26.5	10.1		60.5	66.0
57.2	58	1	12	12:25:37	24783	58.0	12.2	18.2	16.2	15.4	15.6		77.5	14.2	4.3	32.0	4.1		54.6	59.0

Recorded By: ar Verified By: kt Run Set Post

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 06 SPS WIM ID: 060200 DATE: (mm/dd/yyyy): 11/30/2011

Pvmt Temp	Radar speed	Truck	Pass	Time	Record No.	WIM Speed	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW	A-B space	B-C space	C-D space	D - E space	E - F space	Axle Length	Overall Length
57.8	50	2	13	12:37:36	24893	49.0	10.7	14.6	14.4	13.6	14.5		67.8	19.6	4.3	26.7	10.1		60.7	67.0
57.8	52	1	13	12:37:57	24897	52.0	12.2	17.3	16.2	15.5	15.8		77.0	14.1	4.3	32.1	4.0		54.5	59.0
56.8	54	2	14	12:50:32	25030	55.0	10.3	14.6	14.4	13.7	13.5		66.5	19.4	4.3	26.5	10.1		60.3	66.0
56.8	53	1	14	12:50:39	25031	55.0	12.0	17.7	16.6	16.4	16.2		78.9	14.1	4.4	32.1	4.2		54.8	59.0
57.8	54	2	15	13:04:00	25152	54.0	10.1	14.4	14.7	13.8	13.8		66.8	19.4	4.3	26.8	10.3		60.8	67.0
57.8	58	1	15	13:14:38	25162	60.0	11.6	16.4	16.7	15.4	15.7		75.7	14.2	4.3	32.1	4.1		54.7	60.0
60.5	50	2	16	14:16:32	26082	49.0	10.7	14.5	14.5	14.5	13.8		67.9	19.4	4.3	26.6	10.1		60.4	66.0
60.5	49	1	16	14:16:35	26084	50.0	12.1	17.3	16.7	15.3	15.0		76.6	14.0	4.3	31.9	4.1		54.3	59.0
60.5	52	2	17	14:26:46	26206	52.0	10.5	14.4	14.4	14.3	13.9		67.7	19.4	4.3	26.6	10.1		60.4	66.0
60.5	51	1	17	14:26:48	26027	52.0	12.4	16.9	16.0	16.0	16.3		77.6	14.2	4.3	32.1	4.0		54.6	59.0
59.5	56	2	18	14:36:24	26342	60.0	10.3	14.1	14.6	14.2	14.3		67.4	19.6	4.4	26.7	10.1		60.8	67.0
59.5	54	1	18	14:36:29	26343	55.0	11.8	17.1	16.7	15.6	16.1		77.1	14.1	4.3	31.8	4.0		54.2	59.0
58.4	54	2	19	14:57:06	26645	55.0	10.2	14.6	13.9	13.7	13.8		66.4	19.6	4.4	26.8	10.2		61.0	67.0
58.4	53	1	19	14:57:08	26647	54.0	11.7	16.8	16.7	15.3	16.2		76.7	14.1	4.3	32.0	4.0		54.4	60.0
56.7	60	2	20	16:46:46	26780	59.0	10.2	15.1	14.5	14.7	14.6		69.2	19.6	4.3	26.6	10.1		60.6	67.0
56.7	55	1	20	15:06:52	26781	53.0	12.6	16.7	16.0	15.2	15.6		76.2	14.1	4.3	31.9	4.0		54.3	60.0
56.7	50	2	21	15:17:14	26929	50.0	10.6	14.9	14.0	13.5	14.6		67.6	19.5	4.3	26.7	10.1		60.6	67.0
56.7	49	1	21	15:17:17	26930	49.0	12.8	18.1	15.4	14.9	15.6		76.7	14.0	4.4	32.0	4.1		54.5	60.0

Recorded By: ar Verified By: kt Run Set Post

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSSMENT LTPP LANE ONLY	STATE CODE: 06 SPS WIM ID: 060200 STATE ASSIGNED ID 0 DATE (mm/dd/yyy) 11/29/2011

SITE EQUIPMENT INFORMATION

1. **TYPE OF EQUIPMENT** BOTH

2. **LANE NUMBER ON SITE** 1 **3. DIRECTION ON SITE** north

4. **VENDOR** IRD **MODEL** _____ **SERIAL#** 70506451

5. **WEIGHING SENSOR TYPE** bending plate

6. **SYSTEM SOFTWARE VERSIONS:**

CPU _____

LOOP _____

PIEZO _____

WEIGHPAD/ LOADCELL _____

COMMUNICATIONS _____

7. **CLASSIFICATION VIDEO:**

TIME FROM: _____ TO: _____
TIME FROM: _____ TO: _____

SITE CONDITIONS

8. **PAVEMENT:**

Indicate any deficiencies that may affect the performance of the WIM sytem. List all photos on Sheet 24 that support the evaluation.

There were no pavement distresses noted that may affect the accuracies of the WIM system.

Traffic Sheet 22	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	0
LTPP LANE ONLY	DATE (mm/dd/yyy)	11/29/2011

9. IN ROAD SENSORS:

Describe any deficiencies regarding the sensor installation. Indicate sensors that show any signs of being broken, severely worn, missing, removed, or loose. List photos on Sheet 24 for

the equipment is operating within the manufacturer's tolerances.

TRUCK OBSERVATIONS

10. Indicate any irregular truck behaviors such as bouncing, swerving, or braking near the weighing area (within 40 meters). Note the distance from the weighing sensors.

A visual observation of the trucks as they approach, traverse, and leave the sensor area did not indicate any adverse dynamics that would affect the accuracy of the WIM system. The trucks appear to track down the center of the lane.

Minimum 15 minute or 35 truck sample video sample for pavement interaction deficiencies:

Tape Filename: _____

Time: From: _____ To: _____

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSSMENT LTPP LANE ONLY	STATE CODE: 06 SPS WIM ID: 060200 STATE ASSIGNED ID 0 DATE (mm/dd/yyy) 11/29/2011

11. CLASSIFICATION VERIFICATION VIDEO:

TAPE 1- NAME: _____

Interval	Filename	From	To
1			
2			
3			
4			
5			
6			
7			
8			

TAPE 2- NAME: _____

Interval	Filename	From	To
1			
2			
3			
4			
5			
6			
7			
8			

TAPE 3- NAME: _____

Interval	Filename	From	To
1			
2			
3			
4			
5			
6			
7			
8			

Traffic Sheet 22	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	0
LTPP LANE ONLY	DATE (mm/dd/yyy)	11/29/2011

SYSTEM ACCURACY TESTS

12. CONDUCT THE FOLLOWING SYSTEM ACCURACY TESTS EITHER ON- SITE OR IN OFFICE

Speed Accuracy - Complete Sheet 20 and attach.

Average radar speed 57.6 mph Average WIM Speed 59.4 mph
Mean Difference 1.7 mph SD of mean 1.6

Posted Speed Limit 55 mph
Speed Range 15th percentile - 58 mph 85th percentile- 65 mph

Spacing and Weight - Complete Sheet 21 and attach.

Average distance between axles of drive tandem feet
% error from 4.25 ft (industry average) OR 4.42 ft (WIM system average)
= 4.1 %

Average front axle weight for Class 9 vehicles lbs
% error from 10.3 kips (industry average) OR 11.5 lbs (known site value)
= 11.7 %

SUPPORT EQUIPMENT STRUCTURES

17. Indicate any deficiencies with any site equipment other than the in-road sensors. List all photos on the Sheet 24 for each occurance.

Cabinet/Foundation None ☑
no cabinet or foundation deficiencies

Pull Boxes None ☑
no pull box deficiencies

Mast None ☑
no service mast deficiencies

Solar Panels None ☑
solar Panel Has a crack in it from a stone

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSSMENT LTPP LANE ONLY	STATE CODE: 06 SPS WIM ID: 060200 STATE ASSIGNED ID 0 DATE (mm/dd/yyy) 11/29/2011

Telephone D-Mark Box None ☑

no telephone d-mark box deficiencies

Power Service Box None ☑

no power service box deficiencies

Grounding None ☑

no grounding deficiencies

Conduit None ☑

no conduit deficiencies

STATIC AND DYNAMIC ELECTRONIC EQUIPMENT TESTS

18. Complete and attach a Sheet 22 addendum applicable to the installed road equipment.

ADDITIONAL COMMENTS

All values for the WIM sensors and inductive loops were within tolerances. Electronic tests of the power and communication devices indicated that they were operating normally.

Assessor Kevin Trousdale

Traffic Sheet 22 Addendum - Weighpad	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	0
LTPP LANE ONLY	DATE (mm/dd/yyy)	11/29/2011

STATIC EQUIPMENT VALUES (SYSTEM OFF)

1. POWER

a. Solar Panel	160	WATTS	12.57	VDC
b. Equipment Power		VAC	11.28	VDC
c. Battery 1	12.54	VDC		
d. Battery 2	12.54	VDC		
e. Regulated		VDC		
f. Power Supply	12.54	VDC		VDC
g. System Input		VAC	11.28	VDC
h. Modem Power		VAC	12.8	VDC
i. Telephone		VDC		

2. LOOP SENSORS

	Resistance		Inductance		Shield	
a. Leading	0.5	Ω	128.3	µh	inf	MΩ
b. Trailing	0.5	Ω	126.6	µh	inf	MΩ

3. WEIGHPAD SENSORS

	Input		Output		Shield	
a. Leading	968	Ω	844	Ω	inf	Ω
b. Trailing	969	Ω	844	Ω	inf	Ω

DYNAMIC EQUIPMENT VALUES (SYSTEM ON)

4. LOOP SENSORS

	Frequency	
a. Leading	21.8	KHz
b. Trailing	21.5	KHz

5. WEIGHPAD SENSORS

	Zero Point	
a. Leading	-1.8	mV
b. Trailing	-2.9	mV

Assessor Kevin Trousdale

Traffic Sheet 24A LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Equipment	STATE CODE: 06 SPS WIM ID: 060200 DATE (mm/dd/yyy) 11/29/2011

Item	Description	Filename
1	Power Source	060200_solar_panel_11_29_11.jpg
2	Telephone Source	060200_cellular_phone_11_29_11.jpg
3	Cabinet Exterior	060200_cabinet_exterior_11_29_11.jpg
4	Cabinet Interior	060200_cabinet_interior_front_11_29_11.jpg
5	Leading weight sensor	060200_leading_bending_plate_11_29_11.jpg
6	Trailing weight sensor	060200_trailing_bending_plate_11_29_11.jpg
7	Leading classification sensor	
8	Trailing classification sensor	
9	Leading loop sensor	060200_leading_loop_11_29_11.jpg
10	Trailing loop sensor	060200_trailing_loop_11_29_11.jpg
11	Downstream from site	060200_downstream_11_29_11.jpg
12	Upstream from site	060200_upstream_11_29_11.jpg
13	Cabinet Interior - Rear	060200_cabinet_interior_rear_11_29_11.jpg
14		
15		
16		
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Traffic Sheet 24B	STATE CODE:	06
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	060200
SITE PHOTO LOG - Test Trucks	DATE (mm/dd/yyy)	11/29/2011

Item	Description	Filename
1	Tractor, Truck #1	060200_Truck_1_Tractor_11_29_11.jpg
2	Trailer/Load, Truck #1	060200_Truck_1_Trailer_11_29_11.jpg
3	Kingpin Offset, Truck #1	
4	Suspension A, Truck #1	060200_Truck_1_Suspension_1_11_29_11.jpg
5	Suspension B, Truck #1	060200_Truck_1_Suspension_2_11_29_11.jpg
6	Suspension C, Truck #1	060200_Truck_1_Suspension_3_11_29_11.jpg
7	Suspension D, Truck #1	060200_Truck_1_Suspension_4_11_29_11.jpg
8	Suspension E, Truck #1	060200_Truck_1_Suspension_5_11_29_11.jpg
9	Suspension F, Truck #1	
10	Tractor, Truck #2	060200_Truck_2_Tractor_11_29_11.jpg
11	Trailer/Load, Truck #2	060200_Truck_2_Trailer_11_29_11.jpg
12	Kingpin Offset, Truck #2	
13	Suspension A, Truck #2	060200_Truck_2_Suspension_1_11_29_11.jpg
14	Suspension B, Truck #2	060200_Truck_2_Suspension_2_11_29_11.jpg
15	Suspension C, Truck #2	060200_Truck_2_Suspension_3_11_29_11.jpg
16	Suspension D, Truck #2	060200_Truck_2_Suspension_4_11_29_11.jpg
17	Suspension E, Truck #2	060200_Truck_2_Suspension_5_11_29_11.jpg
18	Suspension F, Truck #2	
19	Tractor, Truck #3	
20	Trailer/Load, Truck #3	
21	Kingpin Offset, Truck #3	
22	Suspension A, Truck #3	
23	Suspension B, Truck #3	
24	Suspension C, Truck #3	
25	Suspension D, Truck #3	
26	Suspension E, Truck #3	
27	Suspension F, Truck #3	
28	Scale	
29		
30		

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