WIM System Field Calibration and Validation Handout Guide

Texas, SPS-1
SHRP ID – 480100

Validation Date: August 14, 2013

Table of Contents

1 Site Information 3
2 Contact Information 3
3 Schedule of Events 4
4 Maps 5
4.1 Site Location 5
4.2 Truck Scale Location 5
4.3 Airport Location 6
4.4 Hospital Location 6
5 Occupational Health and Safety Plan 7
6 Contingency Plan 7

1 Site Information

Site ID:	480100	**State:**	Texas
LTPP Region:	Southern	**Configuration:**	Loop-2 Bending Plates-Loop
Controller Type:	DAW-190	**Sensor Type:**	Bending Plate
Power:	AC	**Communication:**	Cellular
Class Scheme:	LTPP Mar 06	**CPU type/setup:**	DAW-190

2 Contact Information

Agency	Contact	Position	Phone	E-Mail
FHWA	Debbie Walker	COTR	202 493-3068	deborah.walker@dot.gov
FHWA	Darrin Grenfell	FHWA Division	512-536-5922	darrin.grenfell@dot.gov
RSC	Tim Martin	Project Manager	512-977-1837	tmartin@fugro.com
TX DOT	Dar Hao Chen	LTPP Contact	512-467-3963	dchen@txdot.gov
TX DOT	Mike Murphy	LTPP contact	512-465-3686	mmurphy@txdot.gov
TX DOT	Luis Peralez	Pharr District	956-702-6162	lperalez@txdot.gov
TX DOT	Glen Bates			glen.bates@txdot.gov
TX DOT	Mike Lloyd	Traffic Contact	512-465-7470	mlloyd1@dot.state.tx.us
ARA	Dean Wolf	Task Leader	717-512-6638	dwolf@ara.com
ARA	Olga Selezneva	Project Manager	410-540-9949	oselezneva@ara.com

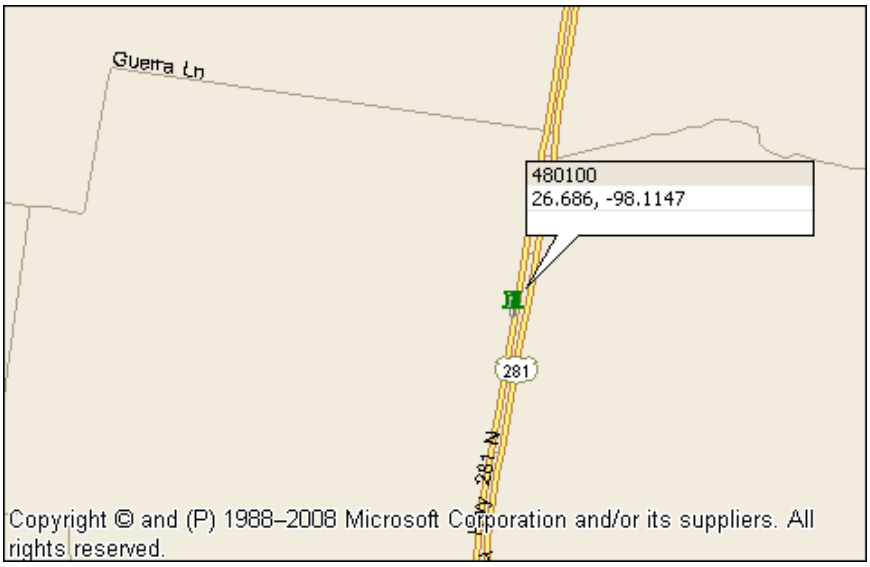
3 Schedule of Events

Date	Event	Location	Start Time
8/13/13	Travel	Edinburgh, TX	TBD
8/14/13	Equipment Assessment	WIM Site	3:30 pm
8/14/13	Test Truck Weigh/Measure/Inspection	CAT Scale	6:30 am
8/14/13	Initial Performance Evaluation	WIM Site	8:30 am
8/14/13	System Test/Class and Speed Study	WIM Site	TBD
8/14/13	Test Truck Weigh	CAT Scale	7:00 am
8/15/13	Calibration/Validation (if required)	WIM Site	8:00 am
8/16/13	Travel	Camp Hill, PA	TBD

4 Maps

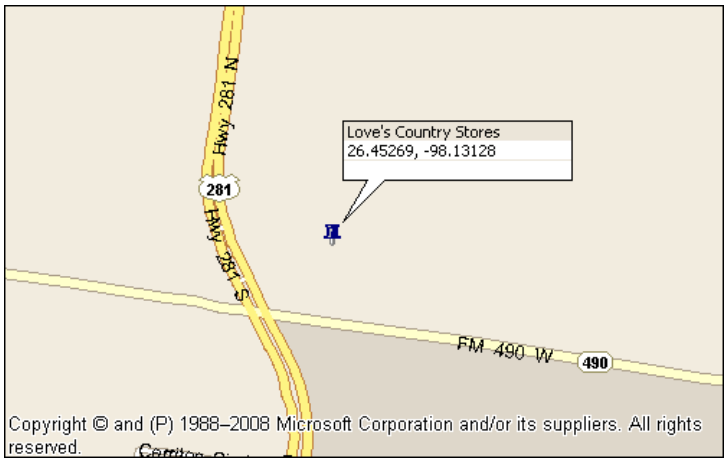
4.1 Site Location

Location:	US-281 South, 9.2 miles north of SR 186		**Dir:**	SB
Latitude:	26.6860°	**Longitude:**	-98.1147°	



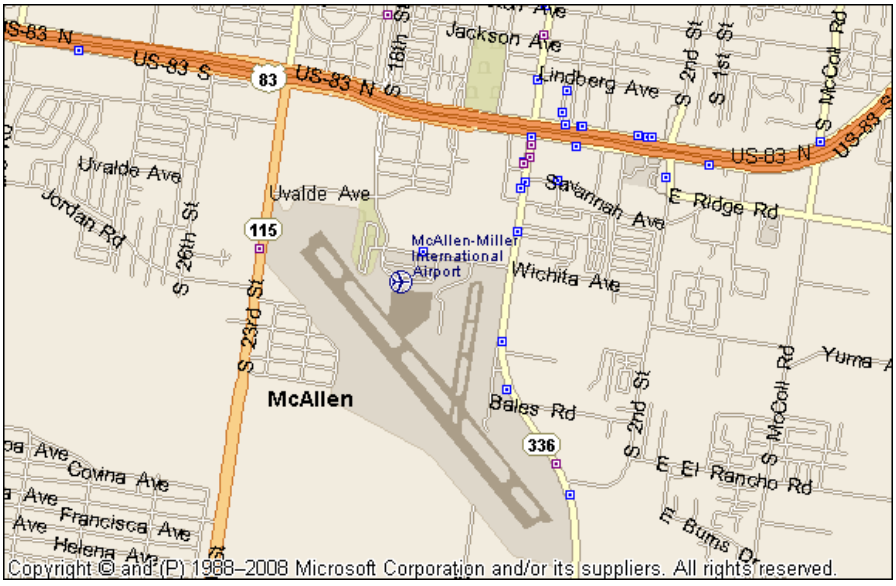
4.2 Truck Scale Location

Name:	Love's Country Store	**Location:**	Hwy 281 & FM 2812
Latitude:	26.4527°	**Longitude:**	-98.1313°



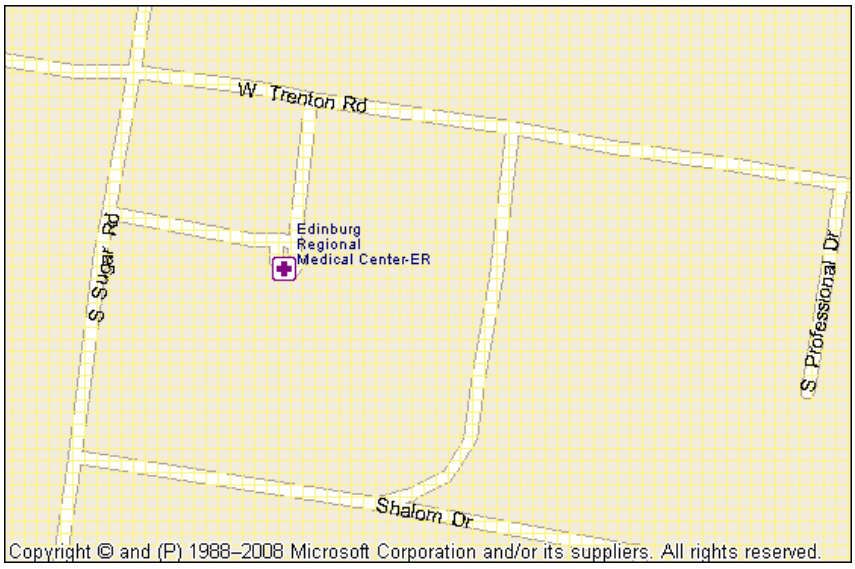
4.3 Airport Location

Name:	McAllen- Miller International Airport	**Location:**	McAllen, TX
Latitude:	26.18214°	**Longitude:**	-98.24145°



4.4 Hospital Location

Name:	Edinburg Regional Medical Center- ER		
Phone:	(956) 388-6000	**Location:**	1102 W Trenton Rd Edinburg, TX 78539



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	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
WIM SITE INVENTORY	DATE (mm/dd/yyyy)	8/14/2013

1. ROUTE: US-281 **MILEPOST:** 34 **LTPP DIRECTION:** south

2. WIM SITE DESCRIPTION

Grade: <1% Sag Vertical: N
Nearest Upstream SPS Section: 480166
Distance from sensors to SPS Section: 1653 feet

3. LANE CONFIGURATION

Lanes in LTPP direction: 2 Median: 3 - grass
Lane width: 12' Shoulder: 3 - paved PCC
Shoulder width: 10'

4. PAVEMENT TYPE PCC

5. PAVEMENT SURFACE CONDITION - Distress Survey

Date: 8/14/13 Photo Filename: 480100_downstream_8_13_13.jpg
Date: 8/14/13 Photo Filename: 480100_trailing_loop_8_13_13.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: N
Intersection within 300' downstream of site: N
Is shoulder routinely used for turning? N

9. DRAINAGE

Drainage *(bending plate and load cell)* : 2 - Pipe to culvert
Clearance under plate (in.): 6"
Clearance /access to flush fines from under system: N

Traffic Sheet 17	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
WIM SITE INVENTORY	DATE (mm/dd/yyyy)	8/14/2013

10. CABINET LOCATION

Same side of road as LTPP lane: Y
Distance from edge of traveled lane: 68 ft
distance from system: 80 ft
type: M

Cabinet access controlled by: Agency
Contact name: Mike Lloyd Phone # 512-465-7470
Alternate name: Phone #

11. POWER

Distance to cabinet from drop: 855 ft
Type: AC
AC in cabinet?
Service provider: Phone #

12. TELEPHONE

Distance to cabinet from drop: 1 ft
Type: cellular
Service provider: ATT Phone #

13. SYSTEM

Software and version no. DAW-190
Computer connection: RS-232

14. TEST TRUCK TURNAROUND TIME

Duration: 10 minutes Distance: 7 miles

15. PHOTOS

	Filename
Power source:	480100_power_box_8_13_13.jpg
Phone source:	480100_telephone_service_8_13_13.jpg
Cabinet exterior:	480100_cabinet_exterior_8_13_13.jpg
Cabinet interior:	480100_cabinet_interior_front_8_13_13.jpg
Weight sensors:	480100_leading_WIM_sensor_8_13_13.jpg
	480100_trailing_WIM_sensor_8_13_13.jpg
Other sensors:	480100_leading_loop_8_13_13.jpg
	480100_trailing_loop_8_13_13.jpg
Downstream from sensors on LTPP lane:	480100_downstream_8_13_13.jpg
Upstream from sensors on LTPP lane:	480100_upstream_8_13_13.jpg

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/14/2013

1. DATA PROCESSING

a. Download: LTPP only

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

c. Data submission LTPP
If state how often?

2. EQUIPMENT

a. Purchase LTPP

b. Installation Included with purchase

c. Maintenance Contract with purchase
Expiration Date

d. Calibration LTPP

e. Manuals and software control: LTPP

f. Power
i. Type Underground ii. Payment State

g. Communication
i. Type Cellular ii. Payment State

3. PAVEMENT

a. Type Portland Concrete Cement

b. Allowable Rehabilitation activities Replacement as needed

c. Profile Site Markings Temporary

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/14/2013

4. Onsite Activities

a. WIM Validation Check advance notice required

_____ Days 2 Weeks

b. Notice for straightedge and grinding check

_____ Days 2 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:
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: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/14/2013

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 Basel Abukhater Phone # 716-632-0804
Agency Stantec

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

e. Test Vehicles (trucks, loads, drivers)
Name _____ Phone # _____
Agency _____

f. Traffic control
Name _____ Phone # _____
Agency _____

g. Enforcement coordination
Name _____ Phone # _____
Agency _____

h. Nearest static scale
Name _____ Location: _____
Phone: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/14/2013

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		10570	10440	Direct
B		16530	16415	Direct
C		16530	16415	Direct
D		17085	17075	Direct
E		17085	17075	Direct
F				

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 77800
   - c. Post Test Loaded Weight: 77420
   - d. Difference Post Test - Pre-Tests: -380

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: No
     photo: ☑
   - b. Make: Freightliner
   - c. Model: FL 112
   - d. Trailer Load Distribution Description:
     concrete blocks
     photo: ☑
   - e. Tractor Tare weight - -
   - f. Trailer Tare weight - -
   - g. Axle Spacing -

A to B 12.2 B to C 4.3 C to D 31.4 D to E 4.2 E to F

   - h. Wheelbase - ☐ Measured ☑ Computed 52.1
   - i. Kingpin offset from Axle B (units) -1'3" photo: ☐
   - j. Overall Length - ☑ Measured 59.0

Traffic Sheet 19	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/14/2013

CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R24.5	steel spring	☑
B	11R24.5	air	☑
C	11R24.5	air	☑
D	11R24.5	air	☑
E	11R24.5	air	☑
F			☐

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

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/14/2013

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/14/2013

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	10500	16550	16550	17080	17080		77760
2	10640	16510	16510	17090	17090		77840
Avg.	10570	16530	16530	17085	17085		77800

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	10220	16560	16560	17050	17050		77440
2	10660	16270	16270	17100	17100		77400
Avg.	10440	16415	16415	17075	17075		77420

Validation Test Truck Run Set - Pre

Measured By: Aditya Ramachandran

Verified By:

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/14/2013

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		10400	10110	Direct
B		13830	13675	Direct
C		13830	13675	Direct
D		15365	15375	Direct
E		15365	15375	Direct
F				

4. **GVW (same units as axles)**
   a. Empty GVW:
   b. Average Pre-Test Loaded weight: 68790
   c. Post Test Loaded Weight: 68210
   d. Difference Post Test - Pre-Tests: -580

5. **TRUCK DESCRIPTION**
   a. Tractor Cab Style: Conventional Sleeper Cab: No
   photo: ☑

   b. Make: Mack
   c. Model: unknown

   d. Trailer Load Distribution Description:
   crane weights
   photo: ☑

   e. Tractor Tare weight - -
   f. Trailer Tare weight - -
   g. Axle Spacing -

A to B 11.8 B to C 4.3 C to D 29.0 D to E 4.1 E to F

   h. Wheelbase - ☐ Measured ☑ Computed 49.2
   i. Kingpin offset from Axle B (units) -2'1" photo: ☐
   j. Overall Length - ☑ Measured 56.7

Traffic Sheet 19	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/14/2013

CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R24.5	steel spring	☑
B	11R24.5	air	☑
C	11R24.5	air	☑
D	280/75R	steel spring	☑
E	280/75R	steel spring	☑
F			☐

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

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/14/2013

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/14/2013

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	10380	13840	13840	15370	15370		68800
2	10420	13820	13820	15360	15360		68780
Avg.	10400	13830	13830	15365	15365		68790

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	10080	13690	13690	15380	15380		68220
2	10140	13660	13660	15370	15370		68200
Avg.	10110	13675	13675	15375	15375		68210

Validation Test Truck Run Set - Pre

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/15/2013

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		10620	10450	Direct
B		16570	16410	Direct
C		16570	16410	Direct
D		17075	17075	Direct
E		17075	17075	Direct
F				

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 77910
   - c. Post Test Loaded Weight: 77400
   - d. Difference Post Test - Pre-Tests: -510

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: No
     photo: ☑
   - b. Make: Freightliner
   - c. Model: FL 112
   - d. Trailer Load Distribution Description:

     Concrete blocks

     photo: ☑
   - e. Tractor Tare weight - -
   - f. Trailer Tare weight - -
   - g. Axle Spacing -

A to B 12.2 B to C 4.3 C to D 31.4 D to E 4.2 E to F

   - h. Wheelbase - ☐ Measured ☑ Computed 52.1
   - i. Kingpin offset from Axle B (units) 15" photo: ☐
   - j. Overall Length - ☑ Measured 59.0

Traffic Sheet 19	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/15/2013

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

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/15/2013

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/15/2013

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	10680	16530	16530	17080	17080		77900
2	10560	16610	16610	17070	17070		77920
Avg.	10620	16570	16570	17075	17075		77910

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	10560	16330	16330	17090	17090		77400
2	10340	16490	16490	17060	17060		77400
Avg.	10450	16410	16410	17075	17075		77400

Validation Test Truck Run Set - Cal 1

Measured By: Aditya Ramachandran

Verified By:

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/15/2013

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		10390	10180	Direct
B		13840	13705	Direct
C		13840	13705	Direct
D		15365	15380	Direct
E		15365	15380	Direct
F				

4. **GVW (same units as axles)**
   a. Empty GVW:
   b. Average Pre-Test Loaded weight: 68800
   c. Post Test Loaded Weight: 68350
   d. Difference Post Test - Pre-Tests: -450

5. **TRUCK DESCRIPTION**
   a. Tractor Cab Style: Conventional Sleeper Cab: No
   photo: ☑

   b. Make: Mack
   c. Model:

   d. Trailer Load Distribution Description:
   Crane weight
   photo: ☑

   e. Tractor Tare weight - -
   f. Trailer Tare weight - -
   g. Axle Spacing -

A to B 11.8 B to C 4.3 C to D 29.0 D to E 4.1 E to F

   h. Wheelbase - ☐ Measured ☑ Computed 49.2
   i. Kingpin offset from Axle B (units) 25" photo: ☐
   j. Overall Length - ☑ Measured 56.7

Traffic Sheet 19	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/15/2013

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		steel spring	☑
E		steel spring	☑
F			☐

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

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/15/2013

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/15/2013

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	10380	13850	13850	15360	15360		68800
2	10400	13830	13830	15370	15370		68800
Avg.	10390	13840	13840	15365	15365		68800

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	10220	13670	13670	15390	15390		68340
2	10140	13740	13740	15370	15370		68360
Avg.	10180	13705	13705	15380	15380		68350

Validation Test Truck Run Set - Cal 1

Measured By: _____

Verified By: _____

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/15/2013

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		10620	10450	Direct
B		16570	16410	Direct
C		16570	16410	Direct
D		17075	17075	Direct
E		17075	17075	Direct
F				

4. **GVW (same units as axles)**
   - a. Empty GVW:
   - b. Average Pre-Test Loaded weight: 77910
   - c. Post Test Loaded Weight: 77400
   - d. Difference Post Test - Pre-Tests: -510

5. **TRUCK DESCRIPTION**
   - a. Tractor Cab Style: Conventional Sleeper Cab: No
     photo: ☑
   - b. Make: Freightliner
   - c. Model: FL 112
   - d. Trailer Load Distribution Description:

     Concrete blocks

     photo: ☑
   - e. Tractor Tare weight - -
   - f. Trailer Tare weight - -
   - g. Axle Spacing -

A to B 12.2 B to C 4.3 C to D 31.4 D to E 4.2 E to F

   - h. Wheelbase - ☐ Measured ☑ Computed 52.1
   - i. Kingpin offset from Axle B (units) 15" photo: ☐
   - j. Overall Length - ☑ Measured 59.0

Traffic Sheet 19	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/15/2013

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

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/15/2013

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 1	DATE (mm/dd/yyyy)	8/15/2013

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	10680	16530	16530	17080	17080		77900
2	10560	16610	16610	17070	17070		77920
Avg.	10620	16570	16570	17075	17075		77910

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	10560	16330	16330	17090	17090		77400
2	10340	16490	16490	17060	17060		77400
Avg.	10450	16410	16410	17075	17075		77400

Validation Test Truck Run Set - Post

Measured By: Aditya Ramachandran

Verified By:

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyyy) 8/15/2013

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		10390	10180	Direct
B		13840	13705	Direct
C		13840	13705	Direct
D		15365	15380	Direct
E		15365	15380	Direct
F				

4. **GVW (same units as axles)**
   a. Empty GVW:
   b. Average Pre-Test Loaded weight: 68800
   c. Post Test Loaded Weight: 68350
   d. Difference Post Test - Pre-Tests: -450

5. **TRUCK DESCRIPTION**
   a. Tractor Cab Style: Conventional Sleeper Cab: No
   photo: ☑

   b. Make: Mack
   c. Model:

   d. Trailer Load Distribution Description:
   Crane weight
   photo: ☑

   e. Tractor Tare weight - -
   f. Trailer Tare weight - -
   g. Axle Spacing -

A to B 11.8 B to C 4.3 C to D 29.0 D to E 4.1 E to F

   h. Wheelbase - ☐ Measured ☑ Computed 49.2
   i. Kingpin offset from Axle B (units) 25" photo: ☐
   j. Overall Length - ☑ Measured 56.7

Traffic Sheet 19	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/15/2013

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		steel spring	☑
E		steel spring	☑
F			☐

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

Steering Axle	Axle B	Axle C	AxleD	AxleE	Axle F

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/15/2013

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:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
CALIBRATION TEST TRUCK # 2	DATE (mm/dd/yyyy)	8/15/2013

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	10380	13850	13850	15360	15360		68800
2	10400	13830	13830	15370	15370		68800
Avg.	10390	13840	13840	15365	15365		68800

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	10220	13670	13670	15390	15390		68340
2	10140	13740	13740	15370	15370		68360
Avg.	10180	13705	13705	15380	15380		68350

Validation Test Truck Run Set - Post

Measured By: _____

Verified By: _____

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 48 SPS WIM ID: 480100 DATE: (mm/dd/yyyy): 8/14/2013

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
99.0	75	2	1	10:12:40	3502	70.0	10.4	13.9	14.1	13.8	17.9		69.9	11.6	4.7	28.9	3.7		48.9	57.4
99.0	75	1	1	10:12:41	3503	69.0	11.8	15.8	15.9	15.0	17.5		76.0	11.4	4.6	30.1	3.7		49.8	52.6
101.0	75	2	2	10:27:51	3681	70.0	11.0	12.7	14.1	13.6	17.8		69.3	12.0	4.2	28.7	3.7		48.6	57.5
101.0	75	1	2	10:27:52	3682	69.0	13.4	16.0	16.7	16.7	15.3		78.2	11.4	4.1	30.5	4.1		50.1	53.1
103.0	75	2	3	10:42:28	3819	70.0	9.2	13.6	13.9	14.3	16.9		68.0	11.7	4.7	28.6	4.2		49.2	58.7
103.0	75	1	3	10:42:29	3820	72.0	9.4	16.8	16.7	16.8	17.3		76.9	11.9	4.3	31.0	4.4		51.6	58.4
103.0	75	2	4	10:57:12	3986	70.0	9.9	13.5	14.5	14.2	16.5		68.5	11.6	4.2	28.9	4.2		48.9	57.4
103.0	75	1	4	10:57:13	3987	71.0	10.2	16.5	16.8	16.9	17.4		77.7	11.8	4.2	30.6	3.9		50.5	56.2
105.0	75	2	5	11:12:11	4141	70.0	10.0	13.0	14.6	13.1	19.0		69.6	11.7	4.2	29.0	3.7		48.6	57.7
105.0	75	1	5	11:12:13	4142	70.0	10.4	16.7	16.6	17.5	16.1		77.3	11.6	4.2	31.0	4.3		51.1	57.9
109.0	65	2	6	11:42:00	4489	70.0	9.6	12.2	14.0	14.5	17.5		67.8	11.7	4.2	29.0	3.7		48.6	57.7
109.0	65	1	6	11:42:01	4490	73.0	10.7	14.7	16.2	14.1	16.0		71.7	12.1	4.3	30.9	4.4		51.7	54.6
121.0	65	2	7	13:19:55	5635	65.0	10.5	14.0	15.6	13.6	16.5		70.2	11.6	4.3	28.9	3.9		48.7	57.0
121.0	65	1	7	13:19:48	5636	64.0	10.1	16.4	16.3	16.6	17.0		76.3	11.8	4.2	30.9	4.2		51.1	57.8
122.0	65	2	8	13:31:09	5792	66.0	10.1	13.1	15.1	14.1	17.0		69.4	11.9	4.0	29.5	4.0		49.4	58.4
122.0	65	1	8	13:31:11	5793	64.0	10.1	16.4	16.4	16.6	17.3		76.8	11.8	4.2	30.9	4.2		51.1	57.8
126.0	65	2	9	13:40:20	5902	65.0	10.0	13.6	15.3	13.1	14.9		66.9	12.0	4.3	29.2	3.9		49.4	58.0
126.0	65	1	9	13:40:22	5904	64.0	10.3	16.1	16.2	16.9	16.8		76.4	11.9	4.1	31.0	4.2		51.2	58.2
133.0	65	2	10	13:50:08	6026	66.0	10.2	13.7	15.3	13.6	16.9		69.6	11.9	4.4	29.1	4.0		49.4	58.4
133.0	65	1	10	13:50:09	6027	64.0	9.9	16.2	16.8	16.7	17.2		76.8	12.4	4.3	31.2	3.8		51.7	58.5
126.0	65	2	11	13:59:44	6128	65.0	9.6	13.8	16.1	14.2	16.7		70.4	11.6	4.3	28.9	3.9		48.7	58.3
126.0	65	1	11	13:59:45	6129	63.0	10.7	16.5	16.2	15.7	17.1		76.3	12.1	4.2	31.0	3.8		51.1	57.6
130.0	65	2	12	14:27:33	6523	64.0	10.2	13.9	14.9	13.4	16.9		69.5	11.8	4.2	28.7	3.8		48.5	57.0
130.0	65	1	12	14:27:34	6524	65.0	9.9	15.8	15.7	15.2	16.1		72.8	12.1	4.3	31.1	3.9		51.4	58.3

Recorded By: ar Verified By: djw Run Set Pre

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 48 SPS WIM ID: 480100 DATE: (mm/dd/yyyy): 8/14/2013

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
132.0	65	2	13	14:36:55	6638	65.0	10.3	13.7	15.3	15.0	15.7		70.0	11.7	4.3	28.6	3.9		48.5	58.2
132.0	65	1	13	14:36:57	6639	64.0	9.7	16.7	17.0	16.2	17.2		76.9	11.9	4.3	31.2	3.4		50.8	58.1
130.0	51	2	14	15:06:03	7014	54.0	10.2	13.7	15.5	13.9	18.8		72.2	11.9	4.3	29.1	4.0		49.3	57.7
130.0	51	1	14	15:06:04	7015	55.0	10.1	16.9	17.4	17.1	16.7		78.1	12.0	4.4	31.3	4.0		51.7	54.7
133.0	51	2	15	15:11:02	7079	54.0	10.1	13.7	15.2	12.8	17.9		69.8	11.9	4.3	28.5	4.0		48.7	57.9
133.0	51	1	15	15:11:03	7080	54.0	9.9	17.5	17.7	17.6	17.4		80.1	12.3	4.3	31.4	4.0		52.0	54.3
128.0	51	2	16	15:15:55	7147	54.0	10.2	13.9	15.5	13.2	18.4		71.2	11.8	4.3	28.6	3.9		48.6	57.0
128.0	51	1	16	15:15:56	7149	52.0	13.2	17.1	17.2	16.2	16.0		79.8	11.5	4.2	30.4	3.8		49.9	52.9
129.0	52	2	17	15:21:26	7216	54.0	10.2	13.2	15.6	13.8	17.8		70.6	11.4	4.3	29.0	3.9		48.6	57.7
129.0	52	1	17	15:21:28	7217	54.0	9.9	17.3	17.8	16.7	17.0		78.8	12.3	4.3	31.1	4.3		52.0	58.7
129.0	52	2	18	15:26:28	7281	54.0	10.4	13.9	15.3	13.8	19.1		72.5	11.4	4.3	28.6	3.9		48.2	57.0
129.0	52	1	18	15:26:30	7282	55.0	9.7	16.8	17.7	16.6	16.9		77.8	12.2	4.1	31.0	4.1		51.4	58.3
129.0	53	2	19	15:31:48	7354	53.0	10.4	13.8	15.4	14.6	18.9		73.2	12.1	4.2	28.8	3.9		49.0	56.8
129.0	52	1	19	15:31:50	7356	52.0	12.5	17.5	16.4	15.2	15.4		76.8	11.5	4.2	29.6	3.8		49.1	52.2
130.0	67	2	20	15:57:34	7710	67.0	10.3	14.2	14.3	12.7	15.6		67.0	11.5	4.4	28.8	4.0		48.7	58.3
130.0	66	1	20	15:57:35	7711	67.0	10.8	14.0	15.7	14.0	14.6		69.3	12.0	4.4	30.1	4.0		50.5	53.5
132.0	70	2	21	16:11:52	7869	70.0	10.2	13.6	14.2	14.1	16.0		68.2	11.7	4.2	29.0	3.7		48.6	58.7
132.0	71	1	21	16:11:53	7870	73.0	11.7	14.9	15.9	14.1	15.8		72.5	12.5	3.8	31.4	4.3		52.0	55.1

Recorded By: ar Verified By: djw Run Set Pre

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 48 SPS WIM ID: 480100 DATE: (mm/dd/yyyy): 8/15/2013

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
87.0	60	2	1	8:35:36	2662	60.0	10.5	13.5	14.2	13.8	17.1		69.2	11.6	4.4	28.4	4.0		48.4	57.2
87.0	60	1	1	8:35:38	2663	60.0	10.5	16.2	17.2	17.2	18.0		79.2	12.0	4.4	31.2	4.0		51.6	58.4
87.3	65	2	2	8:44:07	2753	66.0	10.0	13.9	15.2	15.3	17.1		71.5	11.3	4.4	28.4	3.9		48.0	57.2
87.3	66	1	2	8:44:08	2754	69.0	10.0	15.6	16.6	18.0	17.6		78.0	12.3	4.1	31.0	4.1		51.5	58.2
89.5	65	2	3	8:52:58	2832	68.0	10.0	13.9	14.1	13.5	16.9		68.3	11.8	4.5	29.0	4.1		49.4	58.3
89.5	66	1	3	8:53:00	2833	66.0	10.3	16.9	17.1	16.1	16.9		77.3	11.8	4.5	31.4	3.9		51.6	58.5
91.1	61	2	4	9:01:35	2922	62.0	10.2	13.7	13.6	13.8	18.2		69.6	11.9	4.5	28.7	4.1		49.2	58.0
91.1	61	1	4	9:01:37	2924	63.0	10.3	17.1	17.1	16.9	17.0		78.4	12.2	4.2	31.1	4.2		51.7	57.9
91.0	63	2	5	9:10:00	3020	66.0	9.8	13.5	15.1	14.1	17.4		69.9	11.4	4.4	28.9	3.5		48.2	57.1
91.0	64	1	5	9:10:01	3021	67.0	10.3	16.5	16.8	16.9	17.3		77.8	12.1	3.6	31.4	4.0		51.1	58.1
91.6	70	2	6	9:21:49	3137	72.0	10.2	13.3	14.7	14.1	17.4		69.7	12.0	4.3	29.2	3.8		49.3	58.7
91.6	70	1	6	9:21:50	3138	73.0	9.8	16.5	15.7	16.3	17.1		75.4	11.7	4.4	31.2	3.9		51.2	54.2
100.7	69	2	7	10:04:45	3602	70.0	10.6	12.5	13.9	14.3	16.3		67.7	12.1	4.2	28.9	4.2		49.4	56.4
100.7	68	1	7	10:04:48	3603	70.0	9.9	16.2	16.3	17.9	16.9		77.3	12.0	4.2	31.0	4.2		51.4	59.3
100.7	67	2	8	10:16:54	3739	68.0	10.2	12.7	14.5	13.9	17.9		69.2	11.8	4.1	29.0	3.6		48.5	57.9
100.7	67	1	8	10:16:56	3740	67.0	10.4	16.6	16.6	16.7	17.0		77.3	12.1	4.0	31.4	3.6		51.1	57.6
104.2	68	2	9	10:29:17	3896	67.0	10.1	13.2	14.6	14.7	16.2		68.8	12.0	4.0	28.8	4.0		48.8	57.4
104.2	67	1	9	10:29:20	3897	68.0	9.7	16.8	16.2	17.1	17.7		77.6	11.7	4.1	31.1	3.6		50.5	58.4
105.0	61	2	10	10:38:39	4021	62.0	11.0	13.1	14.9	13.5	15.9		68.5	11.9	4.1	28.7	4.1		48.8	55.0
105.0	62	1	10	10:38:34	4023	64.0	10.4	16.3	16.0	16.2	18.1		77.0	12.3	4.2	31.4	3.8		51.7	59.0
106.7	62	2	11	10:47:07	4113	62.0	10.6	13.9	14.2	14.0	17.2		69.9	11.9	4.1	28.7	4.1		48.8	57.5
106.7	62	1	11	10:47:08	4114	65.0	10.0	17.0	17.0	17.0	16.9		77.9	12.1	4.3	31.5	3.9		51.8	58.7
107.7	59	2	12	10:55:45	4201	60.0	10.0	14.8	14.4	13.7	18.2		71.2	12.0	4.0	29.2	4.0		49.2	58.0
107.7	59	1	12	10:55:47	4204	59.0	10.2	16.5	16.4	17.1	17.1		77.3	12.2	3.9	31.0	3.9		51.0	57.5

Recorded By: gah Verified By: djw Run Set Cal 1

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 48 SPS WIM ID: 480100 DATE: (mm/dd/yyyy): 8/15/2013

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
87.0	60	2	1	8:35:36	2662	60.0	10.5	13.5	14.2	13.8	17.1		69.2	11.6	4.4	28.4	4.0		48.4	57.2
87.0	60	1	1	8:35:38	2663	60.0	10.5	16.2	17.2	17.2	18.0		79.2	12.0	4.4	31.2	4.0		51.6	58.4
87.3	65	2	2	8:44:07	2753	66.0	10.0	13.9	15.2	15.3	17.1		71.5	11.3	4.4	28.4	3.9		48.0	57.2
87.3	66	1	2	8:44:08	2754	69.0	10.0	15.6	16.6	18.0	17.6		78.0	12.3	4.1	31.0	4.1		51.5	58.2
89.5	65	2	3	8:52:58	2832	68.0	10.0	13.9	14.1	13.5	16.9		68.3	11.8	4.5	29.0	4.1		49.4	58.3
89.5	66	1	3	8:53:00	2833	66.0	10.3	16.9	17.1	16.1	16.9		77.3	11.8	4.5	31.4	3.9		51.6	58.5
91.1	61	2	4	9:01:35	2922	62.0	10.2	13.7	13.6	13.8	18.2		69.6	11.9	4.5	28.7	4.1		49.2	58.0
91.1	61	1	4	9:01:37	2924	63.0	10.3	17.1	17.1	16.9	17.0		78.4	12.2	4.2	31.1	4.2		51.7	57.9
91.0	63	2	5	9:10:00	3020	66.0	9.8	13.5	15.1	14.1	17.4		69.9	11.4	4.4	28.9	3.5		48.2	57.1
91.0	64	1	5	9:10:01	3021	67.0	10.3	16.5	16.8	16.9	17.3		77.8	12.1	3.6	31.4	4.0		51.1	58.1
91.6	70	2	6	9:21:49	3137	72.0	10.2	13.3	14.7	14.1	17.4		69.7	12.0	4.3	29.2	3.8		49.3	58.7
91.6	70	1	6	9:21:50	3138	73.0	9.8	16.5	15.7	16.3	17.1		75.4	11.7	4.4	31.2	3.9		51.2	54.2
100.7	69	2	7	10:04:45	3602	70.0	10.6	12.5	13.9	14.3	16.3		67.7	12.1	4.2	28.9	4.2		49.4	56.4
100.7	68	1	7	10:04:48	3603	70.0	9.9	16.2	16.3	17.9	16.9		77.3	12.0	4.2	31.0	4.2		51.4	59.3
100.7	67	2	8	10:16:54	3739	68.0	10.2	12.7	14.5	13.9	17.9		69.2	11.8	4.1	29.0	3.6		48.5	57.9
100.7	67	1	8	10:16:56	3740	67.0	10.4	16.6	16.6	16.7	17.0		77.3	12.1	4.0	31.4	3.6		51.1	57.6
104.2	68	2	9	10:29:17	3896	67.0	10.1	13.2	14.6	14.7	16.2		68.8	12.0	4.0	28.8	4.0		48.8	57.4
104.2	67	1	9	10:29:20	3897	68.0	9.7	16.8	16.2	17.1	17.7		77.6	11.7	4.1	31.1	3.6		50.5	58.4
105.0	61	2	10	10:38:39	4021	62.0	11.0	13.1	14.9	13.5	15.9		68.5	11.9	4.1	28.7	4.1		48.8	55.0
105.0	62	1	10	10:38:34	4023	64.0	10.4	16.3	16.0	16.2	18.1		77.0	12.3	4.2	31.4	3.8		51.7	59.0
106.7	62	2	11	10:47:07	4113	62.0	10.6	13.9	14.2	14.0	17.2		69.9	11.9	4.1	28.7	4.1		48.8	57.5
106.7	62	1	11	10:47:08	4114	65.0	10.0	17.0	17.0	17.0	16.9		77.9	12.1	4.3	31.5	3.9		51.8	58.7
107.7	59	2	12	10:55:45	4201	60.0	10.0	14.8	14.4	13.7	18.2		71.2	12.0	4.0	29.2	4.0		49.2	58.0
107.7	59	1	12	10:55:47	4204	59.0	10.2	16.5	16.4	17.1	17.1		77.3	12.2	3.9	31.0	3.9		51.0	57.5

Recorded By: gah Verified By: djw Run Set Post

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 48 SPS WIM ID: 480100 DATE: (mm/dd/yyyy): 8/15/2013

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
109.8	54	2	13	11:04:39	4314	60.0	9.9	14.4	14.1	13.4	16.8		68.6	11.9	4.4	28.7	4.0		49.0	57.3
109.8	55	1	13	11:04:41	4316	59.0	10.3	17.0	16.5	16.6	17.5		77.8	12.2	4.3	31.1	3.9		51.5	59.0
110.1	60	2	14	11:13:44	4425	60.0	9.7	15.7	14.7	13.4	16.1		69.7	11.5	4.4	29.0	4.0		48.9	58.5
110.1	60	1	14	11:13:44	4428	60.0	9.8	15.5	16.3	16.9	16.7		75.2	12.3	4.3	31.3	4.0		51.9	53.0
118.9	60	2	15	12:58:21	5762	60.0	9.8	14.7	14.3	14.1	17.6		70.4	11.6	4.4	28.8	4.0		48.8	57.6
118.9	60	1	15	12:58:23	5764	60.0	10.5	16.6	16.6	17.1	17.5		78.4	12.0	4.4	31.2	4.0		51.6	58.4
126.3	60	2	16	13:28:31	6182	60.0	10.0	14.3	14.3	13.7	16.3		68.4	11.6	4.0	28.9	4.0		48.5	57.5
126.3	60	1	16	13:28:32	6183	60.0	10.0	16.5	16.1	16.7	16.7		76.0	12.4	4.0	31.6	4.0		52.0	59.2
127.1	65	2	17	13:37:14	6299	65.0	9.9	13.4	15.8	13.5	15.5		67.9	11.6	4.3	28.9	3.9		48.7	56.1
127.1	65	1	17	13:37:17	6300	66.0	10.1	15.8	15.9	17.3	17.1		76.2	12.2	3.9	31.0	3.9		51.0	57.7
127.9	70	2	18	13:49:37	6470	70.0	9.8	12.8	13.8	14.4	16.7		67.5	11.7	4.2	28.6	4.2		48.7	57.7
127.9	70	1	18	13:49:38	6471	73.0	10.5	15.8	16.1	17.0	17.8		77.2	12.2	3.9	31.2	3.9		51.2	57.9
128.1	61	2	19	13:58:32	6590	62.0	10.5	14.5	14.1	14.1	16.1		69.3	11.9	4.5	28.7	4.1		49.2	57.5
128.1	61	1	19	13:58:33	6591	62.0	10.1	15.7	16.3	16.4	17.2		75.7	12.4	4.1	31.1	4.1		51.7	54.8
128.3	65	2	20	14:07:24	6754	65.0	10.7	13.4	14.7	13.2	15.6		67.7	12.0	4.3	28.8	4.3		49.4	57.5
128.3	65	1	20	14:07:26	6756	65.0	9.4	15.2	15.9	16.4	17.5		74.6	12.1	4.3	31.1	3.9		51.4	58.7

Recorded By: gah Verified By: djw Run Set Post

Traffic Sheet 22	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	523
LTPP LANE ONLY	DATE (mm/dd/yyy)	8/14/2013

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. None of the in-road sensors show signs of damage or excessive wear and appear to be fully secured in the pavement.

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	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	523
LTPP LANE ONLY	DATE (mm/dd/yyy)	8/14/2013

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 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSSMENT LTPP LANE ONLY	STATE CODE: 48 SPS WIM ID: 480100 STATE ASSIGNED ID 523 DATE (mm/dd/yyy) 8/14/2013

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 66.4 mph Average WIM Speed 67.6 mph
Mean Difference 1.2 mph SD of mean 2.6

Posted Speed Limit 75 mph
Speed Range 15th percentile - #NUM! mph 85th percentile- _____ 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 4.27 ft (WIM system average)
= 0.4 %

Average front axle weight for Class 9 vehicles _____ lbs
% error from 10.3 kips (industry average) OR 10.4 lbs (known site value)
= 1.1 %

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 ☑

no solar panel deficiencies

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSSMENT LTPP LANE ONLY	STATE CODE: 48 SPS WIM ID: 480100 STATE ASSIGNED ID 523 DATE (mm/dd/yyy) 8/14/2013

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 Greg Helman

Traffic Sheet 22 Addendum - Weighpad	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
SITE EQUIPMENT ASSESSSMENT	STATE ASSIGNED ID	523
LTPP LANE ONLY	DATE (mm/dd/yyy)	8/14/2013

STATIC EQUIPMENT VALUES (SYSTEM OFF)

1. POWER

a. Solar Panel		WATTS		VDC
b. Equipment Power	122.4	VAC	13.52	VDC
c. Battery 1		VDC		
d. Battery 2		VDC		
e. Regulated		VDC		
f. Power Supply	13.52	VDC	13.52	VDC
g. System Input	13.52	VAC		VDC
h. Modem Power	122.8	VAC	12.16	VDC
i. Telephone		VDC		

2. LOOP SENSORS

	Resistance		Inductance		Shield	
a. Leading	1.6	Ω	88.4	µh	inf	MΩ
b. Trailing	1.1	Ω	88.9	µh	inf	MΩ

3. WEIGHPAD SENSORS

	Input		Output		Shield	
a. Leading	847	Ω	708	Ω	inf	Ω
b. Trailing	847	Ω	990	Ω	inf	Ω

DYNAMIC EQUIPMENT VALUES (SYSTEM ON)

4. LOOP SENSORS

	Frequency	
a. Leading	92.7	KHz
b. Trailing	87.3	KHz

5. WEIGHPAD SENSORS

	Zero Point	
a. Leading	0.0	mV
b. Trailing	-0.1	mV

Assessor Greg Helman

Traffic Sheet 24A LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Equipment	STATE CODE: 48 SPS WIM ID: 480100 DATE (mm/dd/yyy) 8/14/2013

Item	Description	Filename
1	Power Source	480100_power_box_8_13_13.jpg
2	Telephone Source	480100_telephone_service_8_13_13.jpg
3	Cabinet Exterior	480100_cabinet_exterior_8_13_13.jpg
4	Cabinet Interior - Front	480100_cabinet_interior_front_8_13_13.jpg
5	Cabinet Interior - Rear	
6	Leading weight sensor	480100_leading_WIM_sensor_8_13_13.jpg
7	Trailing weight sensor	480100_trailing_WIM_sensor_8_13_13.jpg
8	Leading classification sensor	
9	Trailing classification sensor	
10	Leading loop sensor	480100_leading_loop_8_13_13.jpg
11	Trailing loop sensor	480100_trailing_loop_8_13_13.jpg
12	Downstream from site	480100_downstream_8_13_13.jpg
13	Upstream from site	480100_upstream_8_13_13.jpg
14		
15		
16		
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27		
28		
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30		

Traffic Sheet 24B	STATE CODE:	48
LTPP MONITORED TRAFFIC DATA	SPS WIM ID:	480100
SITE PHOTO LOG - Test Trucks	DATE (mm/dd/yyy)	8/14/2013

Item	Description	Filename
1	Tractor, Truck #1	480100_Truck_1_Tractor_8_13_13.jpg
2	Trailer/Load, Truck #1	480100_Truck_1_Trailer_8_13_13.jpg
3	Kingpin Offset, Truck #1	
4	Suspension A, Truck #1	480100_Truck_1_Suspension_1_8_13_13.jpg
5	Suspension B, Truck #1	480100_Truck_1_Suspension_2_8_13_13.jpg
6	Suspension C, Truck #1	480100_Truck_1_Suspension_3_8_13_13.jpg
7	Suspension D, Truck #1	480100_Truck_1_Suspension_4_8_13_13.jpg
8	Suspension E, Truck #1	480100_Truck_1_Suspension_5_8_13_13.jpg
9	Suspension F, Truck #1	
10	Tractor, Truck #2	480100_Truck_2_Tractor_8_13_13.jpg
11	Trailer/Load, Truck #2	480100_Truck_2_Trailer_8_13_13.jpg
12	Kingpin Offset, Truck #2	
13	Suspension A, Truck #2	480100_Truck_2_Suspension_1_8_13_13.jpg
14	Suspension B, Truck #2	480100_Truck_2_Suspension_2_8_13_13.jpg
15	Suspension C, Truck #2	480100_Truck_2_Suspension_3_8_13_13.jpg
16	Suspension D, Truck #2	480100_Truck_2_Suspension_4_8_13_13.jpg
17	Suspension E, Truck #2	480100_Truck_2_Suspension_5_8_13_13.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		