

Traffic Sheet 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	STATE CODE:	04
	SPS WIM ID:	040100
	DATE (mm/dd/yyyy)	10/16/2013

SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 10/16/13
2. TYPE OF EQUIPMENT CALIBRATED: Both
3. REASON FOR CALIBRATION: LTPP Validation
4. SENSORS INSTALLED IN LTPP LANE AT THIS SITE (Select all that apply):
- a. Inductance Loops c.
- b. Bending Plates d.
5. EQUIPMENT MANUFACTURER: IRD iSINC

WIM SYSTEM CALIBRATION SPECIFICS

6. CALIBRATION TECHNIQUE USED: Test Trucks
- Number of Trucks Compared:
- Number of Test Trucks Used: 2
- Passes Per Truck: 20
- | Type | Drive Suspension | Trailer Suspension |
|-------------------|------------------|--------------------|
| Truck 1: <u>9</u> | <u>air</u> | <u>air</u> |
| Truck 2: <u>9</u> | <u>air</u> | <u>air</u> |
| Truck 3: <u></u> | <u></u> | <u></u> |

7. SUMMARY CALIBRATION RESULTS (expressed as a %):

Mean Difference Between -

Dynamic and Static GVW:	<u>-0.1%</u>	Standard Deviation:	<u>1.3%</u>
Dynamic and Static Single Axle:	<u>0.6%</u>	Standard Deviation:	<u>3.1%</u>
Dynamic and Static Double Axles:	<u>-0.2%</u>	Standard Deviation:	<u>3.2%</u>

8. NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED: 3

9. DEFINE SPEED RANGES IN MPH:

	Low		High	Runs
a. <u>Low</u>	<u>44.0</u>	to	<u>51.0</u>	<u>14</u>
b. <u>Medium</u>	<u>51.1</u>	to	<u>58.1</u>	<u>13</u>
c. <u>High</u>	<u>58.2</u>	to	<u>65.0</u>	<u>13</u>
d. <u></u>	<u></u>	to	<u></u>	<u></u>
e. <u></u>	<u></u>	to	<u></u>	<u></u>

ENTERED

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10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED)

3080 3410

11. IS AUTO- CALIBRATION USED AT THIS SITE?

No

If yes , define auto-calibration value(s):

CLASSIFIER TEST SPECIFICS

12. METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:

Manual

13. METHOD TO DETERMINE LENGTH OF COUNT:

Number of Trucks

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

FHWA Class 9:	<u>0.0</u>	FHWA Class	<u>5</u>	-	<u>-14.0</u>
FHWA Class 8:	<u>400.0</u>	FHWA Class	<u> </u>	-	<u> </u>
		FHWA Class	<u> </u>	-	<u> </u>
		FHWA Class	<u> </u>	-	<u> </u>

Percent of "Unclassified" Vehicles: 0.0%

Validation Test Truck Run Set - Post

Person Leading Calibration Effort:

Dean J. Wolf

Contact Information:

Phone: 717-975-3550

E-mail: dwolf@ara.com

ENTERED

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SITE CALIBRATION INFORMATION

1. DATE OF CALIBRATION {mm/dd/yy} 10/15/13
2. TYPE OF EQUIPMENT CALIBRATED: Both
3. REASON FOR CALIBRATION: LTPP Validation
4. SENSORS INSTALLED IN LTPP LANE AT THIS SITE (Select all that apply):
- a. Inductance Loops c.
- b. Bending Plates d.
5. EQUIPMENT MANUFACTURER: IRD iSINC

WIM SYSTEM CALIBRATION SPECIFICS

6. CALIBRATION TECHNIQUE USED: Test Trucks
- Number of Trucks Compared:
- Number of Test Trucks Used: 2
- Passes Per Truck: 20
- | Type | Drive Suspension | Trailer Suspension |
|-------------------|------------------|--------------------|
| Truck 1: <u>9</u> | <u>air</u> | <u>air</u> |
| Truck 2: <u>9</u> | <u>air</u> | <u>air</u> |
| Truck 3: <u></u> | <u></u> | <u></u> |

7. SUMMARY CALIBRATION RESULTS (expressed as a %):

Mean Difference Between -

Dynamic and Static GVW:	<u>2.0%</u>	Standard Deviation:	<u>2.4%</u>
Dynamic and Static Single Axle:	<u>1.0%</u>	Standard Deviation:	<u>3.2%</u>
Dynamic and Static Double Axles:	<u>2.2%</u>	Standard Deviation:	<u>3.5%</u>

8. NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED: 3

9. DEFINE SPEED RANGES IN MPH:

	Low		High	Runs
a. <u>Low</u>	- <u>44.0</u> ^{47.6}	to	<u>51.0</u>	<u>14</u>
b. <u>Medium</u>	- <u>51.1</u> ^{54.6}	to	<u>58.1</u>	<u>13</u>
c. <u>High</u>	- <u>58.2</u> ^{61.6}	to	<u>65.0</u>	<u>13</u>
d. <u></u>	- <u></u>	to	<u></u>	<u></u>
e. <u></u>	- <u></u>	to	<u></u>	<u></u>

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800.12.29.12

Traffic Sheet 16 LTPP MONITORED TRAFFIC DATA SITE CALIBRATION SUMMARY	STATE CODE:	04
	SPS WIM ID:	040100
	DATE (mm/dd/yyyy)	10/15/2013

10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 3245 | 3593

11. IS AUTO- CALIBRATION USED AT THIS SITE? No

If yes , define auto-calibration value(s):

CLASSIFIER TEST SPECIFICS

12. METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:

Manual

13. METHOD TO DETERMINE LENGTH OF COUNT: Number of Trucks

14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:

FHWA Class 9:	0.0	FHWA Class	5	-	5.0
FHWA Class 8:	67.0	FHWA Class		-	
		FHWA Class		-	
		FHWA Class		-	

Percent of "Unclassified" Vehicles: 0.9%

Validation Test Truck Run Set - Pre

Person Leading Calibration Effort: Dean J. Wolf

Contact Information: Phone: 717-975-3550

E-mail: dwolf@ara.com

ENTERED

Traffic Sheet 17 LTPP MONITORED TRAFFIC DATA WIM SITE INVENTORY	STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013
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10. CABINET LOCATION

Same side of road as LTPP lane: Y
Distance from edge of traveled lane: 83 ft
distance from system: 90 ft
type: M

Cabinet access controlled by: Agency and LTPP

Contact name: Roy Czinku Phone # 306-653-6627
Alternate name: Mark Catchpole Phone # 602-712-8596

11. POWER

Distance to cabinet from drop: 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. iSINC
Computer connection: Ethernet

14. TEST TRUCK TURNAROUND TIME

Duration: minutes Distance: miles

15. PHOTOS

	Filename
Power source:	<u>040100_solar_panel_10_16_13.jpg</u>
Phone source:	<u>040100_telephone_pedestal_10_15_13.jpg</u>
Cabinet exterior:	<u>040100_cabinet_exterior_10_16_13.jpg</u>
Cabinet interior:	<u>040100_cabinet_interior_front_10_16_13.jpg</u>
Weight sensors:	<u>040100_leading_WIM_sensor_10_15_13.jpg</u>
	<u>040100_trailing_WIM_sensor_10_15_13.jpg</u>
Other sensors:	<u>040100_leading_loop_10_15_13.jpg</u>
	<u>040100_trailing_loop_10_15_13.jpg</u>
Downstream from sensors on LTPP lane:	<u>040100_downstream_10_15_13.jpg</u>
Upstream from sensors on LTPP lane:	<u>040100_upstream_10_15_13.jpg</u>

<p align="center">Traffic Sheet 18</p> <p align="center">LTPP MONITORED TRAFFIC DATA</p> <p align="center">WIM SITE COORDINATION</p>	<p>STATE CODE: 04</p> <p>SPS WIM ID: 040100</p> <p>DATE (mm/dd/yyyy) 10/16/2013</p>
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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 Solar ii. Payment N/A
- g. Communication
i. Type Cellular ii. Payment _____

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: 04
SPS WIM ID: 040100
DATE (mm/dd/yyyy) 10/16/2013

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-	<u>Air suspension 3S2</u>	<u>LTPP</u>
2nd-	<u>Air Suspension 3S2</u>	<u>LTPP</u>
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

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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 # _____
 - Agency Fugro
- d. Construction schedule and verification
 - Name _____ Phone # _____
 - Agency _____
- e. Test Vehicles (trucks, loads, drivers)
 - Name Scott Sunderland Phone # 480-641-3500
 - Agency Otto Logistics
- 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: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013
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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		11550	11360	Direct
B		16380	16165	Direct
C		16380	16165	Direct
D		16815	16750	Direct
E		16815	16750	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 77940
- c. Post Test Loaded Weight: 77190
- d. Difference Post Test - Pre-Tests: -750

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: No
photo: ☐

- b. Make: CHU613
- c. Model: Mack

d. Trailer Load Distribution Description:

trash

photo: ☐

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

A to B 14.8 B to C 4.4 C to D 33.2 D to E 4.1 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 56.5
- i. Kingpin offset from Axle B (units) .7 photo: ☐
- j. Overall Length - ☒ Measured 61.8

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013
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CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R22.5	steel spring	<input checked="" type="checkbox"/>
B	11R22.5	air	<input checked="" type="checkbox"/>
C	11R22.5	air	<input checked="" type="checkbox"/>
D	11R22.5	air	<input checked="" type="checkbox"/>
E	11R22.5	air	<input checked="" type="checkbox"/>
F			<input type="checkbox"/>

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				

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1</p>	<p>STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013</p>
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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

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u></p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013</p>
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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	11520	16400	16400	16800	16800		77920
2	11580	16360	16360	16830	16830		77960
Avg.	11550	16380	16380	16815	16815		77940

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	11400	16140	16140	16760	16760		77200
2	11320	16190	16190	16740	16740		77180
Avg.	11360	16165	16165	16750	16750		77190

Validation Test Truck Run Set - Pre

Measured By: Andrew Lewis

Verified By: Gregory Helman

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013
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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		11750	0	Direct
B		16320	0	Direct
C		16320	0	Direct
D		16730	0	Direct
E		16730	0	Direct
F				

4. GVW (same units as axles)

a. Empty GVW: _____
b. Average Pre-Test Loaded weight: 77830
c. Post Test Loaded Weight: 0
d. Difference Post Test - Pre-Tests: -77830

5. TRUCK DESCRIPTION

a. Tractor Cab Style: Conventional Sleeper Cab: No
photo: ☒

b. Make: CHU613
c. Model: Mack

d. Trailer Load Distribution Description:

trash

photo: ☒

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

A to B 14.8 B to C 4.4 C to D 33.2 D to E 4.1 E to F _____

h. Wheelbase - ☐ Measured _____ ☒ Computed 56.5
i. Kingpin offset from Axle B (units) .7 photo: ☐
j. Overall Length - ☒ Measured 61.8

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CALIBRATION TEST TRUCK # <u>1</u>	DATE (mm/dd/yyyy) 10/16/2013

CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R22.5	steel spring	<input type="checkbox"/>
B	11R22.5	air	<input type="checkbox"/>
C	11R22.5	air	<input type="checkbox"/>
D	11R22.5	air	<input type="checkbox"/>
E	11R22.5	air	<input type="checkbox"/>
F			<input type="checkbox"/>

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				

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u></p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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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

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u></p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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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	11660	16370	16370	16720	16720		77820
2	11840	16270	16270	16740	16740		77840
Avg.	11750	16320	16320	16730	16730		77830

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: Andrew Lewis

Verified By: Gregory Helman

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 04
	SPS WIM ID: 040100
	DATE (mm/dd/yyyy) 10/16/2013

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		11750	11570	Direct
B		16320	16130	Direct
C		16320	16130	Direct
D		16730	16685	Direct
E		16730	16685	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 77830
- c. Post Test Loaded Weight: 77200
- d. Difference Post Test - Pre-Tests: -630

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: No
photo: ☒

- b. Make: CHU613
c. Model: Mack

d. Trailer Load Distribution Description:

trash

photo: ☒

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

A to B 14.8 B to C 4.4 C to D 33.2 D to E 4.1 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 56.5
i. Kingpin offset from Axle B (units) .7 photo: ☐
j. Overall Length - ☒ Measured 61.8

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1</p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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CALIBRATION TEST TRUCK - Primary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R22.5	steel spring	<input checked="" type="checkbox"/>
B	11R22.5	air	<input checked="" type="checkbox"/>
C	11R22.5	air	<input checked="" type="checkbox"/>
D	11R22.5	air	<input checked="" type="checkbox"/>
E	11R22.5	air	<input checked="" type="checkbox"/>
F			<input type="checkbox"/>

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				

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u></p>	<p>STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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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

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u></p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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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	11660	16370	16370	16720	16720		77820
2	11840	16270	16270	16740	16740		77840
Avg.	11750	16320	16320	16730	16730		77830

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	11500	16170	16170	16680	16680		77200
2	11640	16090	16090	16690	16690		77200
Avg.	11570	16130	16130	16685	16685		77200

Validation Test Truck Run-Set - Cal 1

Measured By: Andrew Lewis

Verified By: Gregory Helman

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013
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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		11700	11490	Direct
B		13680	13530	Direct
C		13680	13530	Direct
D		14585	14505	Direct
E		14585	14505	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 68230
- c. Post Test Loaded Weight: 67560
- d. Difference Post Test - Pre-Tests: -670

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: No
photo: ☐

- b. Make: Mack
c. Model: CXU613

d. Trailer Load Distribution Description:

trash

photo: ☐

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







A to B 13.4 B to C 4.3 C to D 33.5 D to E 4.2 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 55.4
- i. Kingpin offset from Axle B (units) 0.8 photo: ☐
- j. Overall Length - ☒ Measured 62.5

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013
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CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R22.5	steel spring	
B	11R22.5	air	
C	11R22.5	air	
D	11R22.5	air	
E	11R22.5	air	
F			

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	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				

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2</p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013</p>
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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

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2</p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013</p>
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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	11680	13710	13710	14580	14580		68260
2	11720	13650	13650	14590	14590		68200
Avg.	11700	13680	13680	14585	14585		68230

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	11500	13520	13520	14500	14500		67540
2	11480	13540	13540	14510	14510		67580
Avg.	11490	13530	13530	14505	14505		67560

Validation Test Truck Run Set - Pre

Measured By: Andrew Lewis

Verified By: Gregory Helman

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013
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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		11860	0	Direct
B		13735	0	Direct
C		13735	0	Direct
D		14470	0	Direct
E		14470	0	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 68270
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: -68270

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: No
photo: ☒

- b. Make: Mack
c. Model: CXU613

d. Trailer Load Distribution Description:

trash

photo: ☒

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

A to B 13.4 B to C 4.3 C to D 33.5 D to E 4.2 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 55.4
i. Kingpin offset from Axle B (units) 0.8 photo: ☐
j. Overall Length - ☒ Measured 62.5

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2</p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R22.5	steel spring	<input type="checkbox"/>
B	11R22.5	air	<input type="checkbox"/>
C	11R22.5	air	<input type="checkbox"/>
D	11R22.5	air	<input type="checkbox"/>
E	11R22.5	air	<input type="checkbox"/>
F			<input type="checkbox"/>

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				

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2</p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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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

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u></p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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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	11860	13740	13740	14470	14470		68280
2	11860	13730	13730	14470	14470		68260
Avg.	11860	13735	13735	14470	14470		68270

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: Andrew Lewis

Verified By: Gregory Helman

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 04
	SPS WIM ID: 040100
	DATE (mm/dd/yyyy) 10/16/2013

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		11860	11690	Direct
B		13735	13600	Direct
C		13735	13600	Direct
D		14470	14425	Direct
E		14470	14425	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 68270
- c. Post Test Loaded Weight: 67740
- d. Difference Post Test - Pre-Tests: -530

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: No
photo: ☒

- b. Make: Mack
c. Model: CXU613

d. Trailer Load Distribution Description:

trash

photo: ☒

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

A to B 13.4 B to C 4.3 C to D 33.5 D to E 4.2 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 55.4
i. Kingpin offset from Axle B (units) 0.8 photo: ☐
- j. Overall Length - ☒ Measured 62.5

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2</p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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CALIBRATION TEST TRUCK - Secondary

6. SUSPENSION

	a. Tire size	b.Suspension description (leaf, air # of leaves, taper or flat leaf, etc.)	c. photo
A	11R22.5	steel spring	<input checked="" type="checkbox"/>
B	11R22.5	air	<input checked="" type="checkbox"/>
C	11R22.5	air	<input checked="" type="checkbox"/>
D	11R22.5	air	<input checked="" type="checkbox"/>
E	11R22.5	air	<input checked="" type="checkbox"/>
F			<input type="checkbox"/>

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				

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2</p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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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

<p align="center">Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2</p>	<p align="right">STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013</p>
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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	11860	13740	13740	14470	14470		68280
2	11860	13730	13730	14470	14470		68260
Avg.	11860	13735	13735	14470	14470		68270

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	11680	13600	13600	14430	14430		67740
2	11700	13600	13600	14420	14420		67740
Avg.	11690	13600	13600	14425	14425		67740

Validation Test Truck Run Set - Cal 1

Measured By: Andrew Lewis

Verified By: Gregory Helman

Traffic Sheet 20 LTPP MONITORED TRAFFIC DATA SPEED AND CLASSIFICATION STUDIES					STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013				
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Count - 107 Time = 1:51:35 Trucks (4-15) - 107 Class 3s - 0

WIM speed	WIM class	WIM Record	Obs. Speed	Obs. Class	WIM speed	WIM class	WIM Record	Obs. Speed	Obs. Class
62	5	17937	62	5	62	8	18035	62	8
68	9	17939	68	9	62	5	18037	62	5
63	9	17947	58	9	54	9	18045	54	9
65	9	17952	66	9	67	9	18051	66	9
65	9	17955	64	9	69	9	18061	67	9
62	9	17970	62	9	61	9	18062	63	9
64	9	17971	64	9	66	9	18071	63	9
62	9	17972	59	9	65	5	18073	63	5
63	9	17982	65	9	67	9	18080	65	9
72	6	17983	68	6	65	9	18082	65	9
70	5	17984	69	5	64	9	18084	63	9
64	9	17988	66	9	60	15	18090	59	13
63	9	17993	63	9	67	11	18102	67	11
64	9	18002	63	9	67	10	18103	64	10
64	9	18003	63	9	64	9	18115	64	9
64	9	18004	63	9	64	9	18127	64	9
67	9	18009	64	9	65	9	18142	65	9
65	9	18012	62	9	66	9	18146	66	9
65	9	18013	63	9	67	9	18149	62	9
62	9	18014	60	9	49	5	18151	44	4
63	9	18022	63	9	64	8	18165	60	8
62	9	18028	61	9	65	9	18167	63	9
64	9	18030	63	9	67	9	18171	65	9
69	9	18031	68	9	68	9	18172	68	9
68	9	18033	68	9	63	9	18186	67	9

Sheet 1 - 1 to 50

Recorded By: _____ Start: 12:01:39 Stop: 12:54:34
Verified By: ABL _____ GAH _____

Validation Test Truck Run Set - Pre

Traffic Sheet 20 LTPP MONITORED TRAFFIC DATA SPEED AND CLASSIFICATION STUDIES					STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/15/2013				
--	--	--	--	--	--	--	--	--	--

WIM speed	WIM class	WIM Record	Obs. Speed	Obs. Class	WIM speed	WIM class	WIM Record	Obs. Speed	Obs. Class
69	5	18187	70	5	57	9	18324	56	9
67	9	18191	67	9	64	9	18325	63	9
65	9	18195	62	9	65	9	18326	63	9
66	9	18207	64	9	67	9	18330	66	9
60	9	18208	64	9	65	9	18332	65	9
68	4	18220	66	4	70	5	18334	70	4
70	9	18223	67	9	64	9	18336	64	9
70	9	18224	64	9	69	9	18339	69	9
65	9	18225	62	9	68	5	18351	67	5
53	8	18231	52	5	69	5	18356	69	5
67	9	18232	65	9	54	9	18358	54	9
67	13	18236	65	13	75	9	18361	75	9
78	5	18240	75	5	64	9	18378	63	9
63	9	18248	62	9	62	9	18394	63	9
69	9	18250	68	9	65	9	18395	64	9
68	9	18259	67	9	70	10	18401	70	10
68	9	18266	68	9	62	9	18402	62	9
63	5	18278	59	5	62	8	18403	61	4
67	5	18281	64	5	65	9	18408	63	9
69	5	18283	66	5	66	5	18412	64	5
67	5	18294	66	5	65	9	18413	65	9
70	5	18305	69	5	69	9	18414	68	9
65	9	18310	63	9	69	5	18417	69	5
66	9	18317	65	9	61	5	18424	60	5
67	9	18323	67	9	67	8	18428	67	8

Sheet 2 - 51 to 100

Recorded By: _____

Start: 12:54:40

ABL

Stop: 13:43:29

GAH

Validation Test Truck Run Set - Pre

Traffic Sheet 20 LTPP MONITORED TRAFFIC DATA SPEED AND CLASSIFICATION STUDIES					STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013				
--	--	--	--	--	--	--	--	--	--

Count - 110 Time = 3:20:59 Trucks (4-15) - 110 Class 3s - 0

WIM speed	WIM class	WIM Record	Obs. Speed	Obs. Class	WIM speed	WIM class	WIM Record	Obs. Speed	Obs. Class
68	9	21088	68	9	62	12	21186	12	12
68	9	21089	68	9	64	11	21188	65	11
60	5	21090	57	5	62	11	21192	59	11
65	9	21094	65	9	68	4	21197	67	4
60	5	21096	60	5	67	9	21219	67	9
64	9	21098	65	9	67	9	21220	67	9
65	9	21100	62	9	67	9	21223	67	9
68	9	21113	67	9	64	9	21227	64	9
64	8	21117	63	5	64	9	21228	64	9
64	9	21118	66	9	65	5	21229	64	5
62	11	21119	60	11	65	9	21230	64	9
65	9	21123	65	9	65	9	21232	65	9
64	9	21124	62	9	61	9	21242	61	9
66	9	21128	67	9	68	9	21247	67	9
71	9	21129	70	9	65	9	21248	63	9
68	9	21135	67	9	64	5	21251	64	5
61	9	21138	61	9	68	9	21261	67	9
65	8	21144	66	5	67	8	21263	66	5
70	9	21145	70	9	68	9	21272	73	9
68	9	21151	68	9	60	9	21274	60	9
62	9	21154	61	9	72	9	21279	72	9
64	9	21155	61	9	59	8	21280	59	5
62	9	21156	62	9	64	9	21284	63	9
68	9	21165	67	9	60	8	21289	64	8
65	9	21178	64	9	66	5	21290	65	5

Sheet 1 - 1 to 50

Recorded By: _____

Start: 9:51:34

ABL

Stop: 10:50:19

Verified By: GAH

Validation Test Truck Run Set - Cal 1

Traffic Sheet 20 LTPP MONITORED TRAFFIC DATA SPEED AND CLASSIFICATION STUDIES					STATE CODE: 04 SPS WIM ID: 040100 DATE (mm/dd/yyyy) 10/16/2013				
--	--	--	--	--	--	--	--	--	--

WIM speed	WIM class	WIM Record	Obs. Speed	Obs. Class	WIM speed	WIM class	WIM Record	Obs. Speed	Obs. Class
68	9	21601	68	9	70	5	21703	68	5
59	9	21602	59	9	67	5	21704	67	5
67	9	21605	67	9	67	4	21737	66	4
55	9	21615	54	9	64	7	21746	65	7
55	9	21616	54	9	68	9	21748	66	9
68	5	21618	68	5	68	9	21749	66	9
70	9	21621	69	9	65	9	21750	63	9
62	5	21625	61	5	74	5	21761	74	5
65	5	21630	63	5	56	9	21763	55	9
36	9	21631	36	9	70	9	21765	69	9
58	9	21635	57	9	69	9	21766	69	9
57	5	21644	54	5	70	9	21768	69	9
66	9	21654	67	9	65	9	21777	65	9
66	9	21662	66	9	64	9	21778	65	9
68	9	21663	66	9	64	9	21784	64	9
64	5	21664	65	5	57	15	21786	57	15
66	5	21665	66	5	65	9	21788	65	9
67	9	21669	66	9	68	5	21789	67	5
67	5	21672	67	5	64	9	21791	64	9
66	9	21674	65	9	64	12	21792	64	12
65	9	21684	65	9	65	5	21794	64	5
65	5	21686	64	5	66	9	21795	66	9
67	9	21696	65	9	67	5	21796	65	5
60	9	21697	59	9	69	9	21797	68	9
48	5	21700	48	5	65	5	21810	65	5

Sheet 2 - 51 to 100

Recorded By: ABL

Start: 12:06:12

Stop: 12:53:08

GAH

<p align="center">Traffic Sheet 20</p> <p align="center">LTPP MONITORED TRAFFIC DATA</p> <p align="center">SPEED AND CLASSIFICATION STUDIES</p>	STATE CODE:	04
	SPS WIM ID:	040100
	DATE (mm/dd/yyyy)	10/16/2013

[illegible]

Sheet 3 - 101 to 150

Start: 12:53:48

Stop: 13:12:33

Recorded By:

ABL

GAH

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 04 SPS WIM ID: 040100 DATE: (mm/dd/yyyy): 10/15/2013									
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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
67.2	60	1	1	10:04:33	17469	62.0	11.5	15.9	17.1	18.5	18.0		81.0	14.8	4.4	33.4	4.1		56.7	63.0
67.2	60	2	1	10:04:35	17471	55.0	11.8	13.7	13.6	15.5	13.7		68.2	13.5	4.3	33.7	4.1		55.6	62.0
69.1	44	1	2	10:13:56	17500	44.0	11.7	16.3	16.4	17.0	16.6		77.9	14.7	4.4	33.3	4.1		56.5	62.0
69.1	44	2	2	10:13:59	17501	44.0	12.7	14.2	13.8	14.8	14.7		70.0	13.5	4.3	33.8	4.1		55.7	63.0
69.8	55	1	3	10:23:38	17531	55.0	11.6	15.5	16.5	17.3	16.5		77.3	14.8	4.4	33.3	4.1		56.6	63.0
69.8	55	2	3	10:23:42	17532	54.0	11.3	14.2	13.6	14.7	13.9		67.6	13.5	4.3	33.6	4.1		55.5	62.0
71.3	62	1	4	10:32:58	17569	62.0	11.4	15.7	16.6	18.2	18.3		80.4	14.8	4.4	33.4	4.1		56.7	62.0
71.3	64	2	4	10:33:02	17570	65.0	12.2	13.8	13.6	16.4	15.7		71.7	13.5	4.3	33.6	4.1		55.5	62.0
73.5	44	1	5	10:42:23	17603	44.0	12.1	16.7	16.3	17.2	17.2		79.6	14.7	4.4	33.2	4.1		56.4	62.0
73.5	44	2	5	10:42:29	17604	45.0	11.2	14.2	13.9	14.7	14.3		68.3	13.5	4.3	33.6	4.1		55.5	62.0
74.0	54	1	6	10:51:57	17636	55.0	11.5	15.7	16.4	17.1	16.1		76.8	14.8	4.4	33.4	4.1		56.7	62.0
74.0	54	2	6	10:52:00	17637	55.0	11.1	14.1	14.0	14.7	13.6		67.4	13.5	4.4	33.6	4.1		55.6	62.0
75.2	62	1	7	11:01:47	17676	64.0	11.3	15.7	16.7	18.3	18.1		80.2	14.8	4.5	33.4	4.1		56.8	63.0
75.2	65	2	7	11:01:57	17677	65.0	11.8	13.7	13.5	16.6	15.9		71.5	13.5	4.3	33.6	4.1		55.5	63.0
76.7	44	1	8	11:11:41	17720	44.0	12.0	16.5	16.6	17.0	16.7		78.8	14.8	4.4	33.4	4.1		56.7	63.0
76.7	44	2	8	11:11:45	17721	45.0	11.9	14.3	13.3	15.1	13.5		68.1	13.6	4.3	33.6	4.1		55.6	62.0
77.8	54	1	9	11:21:26	17763	55.0	11.7	15.8	16.2	17.0	16.0		76.8	14.8	4.4	33.4	4.1		56.7	63.0
77.8	54	2	9	11:21:30	17764	55.0	10.9	14.3	13.7	16.0	13.8		68.6	13.5	4.3	33.7	4.1		55.6	63.0
78.8	64	1	10	11:31:05	17807	64.0	11.4	16.0	16.9	18.5	18.6		81.5	14.8	4.4	33.3	4.1		56.6	63.0
78.8	64	2	10	11:31:07	17808	64.0	12.1	13.9	13.7	16.8	15.2		71.7	13.5	4.3	33.6	4.1		55.5	63.0
82.4	44	1	11	13:57:26	18493	45.0	11.7	16.6	16.7	17.4	15.4		77.9	14.8	4.4	33.4	4.1		56.7	62.0
82.4	44	2	11	13:57:31	18494	45.0	11.5	14.1	13.6	15.4	13.9		68.4	13.4	4.3	33.4	4.1		55.2	62.0
81.0	54	1	12	14:07:19	18544	54.0	11.4	15.9	16.3	16.5	16.2		76.5	14.8	4.4	33.3	4.1		56.6	63.0
81.0	54	2	12	14:07:27	18545	55.0	11.4	14.1	14.1	16.4	13.7		69.8	13.5	4.3	33.5	4.1		55.4	63.0

Recorded By: ABL

Verified By: GAH

Run Set Pre

Traffic Sheet 21 (Wheel Load) ITPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS	STATE CODE: 04 SPS WIM ID: 040100 DATE: (mm/dd/yyyy): 10/15/2013
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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
80.5	54	1	13	14:17:47	18599	64.0	11.4	16.2	16.8	18.3	18.6		81.4	14.8	4.4	33.3	4.1		56.6	62.0
80.5	64	2	13	14:17:49	18600	64.0	12.2	13.6	13.3	17.6	15.4		72.1	13.5	4.3	33.5	4.1		55.4	63.0
81.2	45	1	14	14:27:08	18637	45.0	11.7	16.4	16.4	17.5	16.7		78.8	14.7	4.4	33.1	4.1		56.3	62.0
81.2	45	2	14	14:27:18	18638	45.0	12.3	14.3	13.7	15.9	13.1		69.2	13.4	4.3	33.5	4.1		55.3	62.0
80.7	54	1	15	14:36:34	18693	54.0	11.7	16.0	16.4	16.6	15.8		76.5	14.7	4.4	33.3	4.1		56.5	62.0
80.7	54	2	15	14:36:41	18694	54.0	11.3	14.2	14.1	15.1	14.0		68.7	13.5	4.3	33.5	4.1		55.4	63.0
80.2	64	1	16	14:46:33	18750	64.0	11.4	15.9	16.7	18.2	18.8		81.0	14.7	4.4	33.1	4.1		56.3	62.0
80.2	64	2	16	14:47:20	18756	64.0	11.7	13.6	13.6	16.5	16.1		71.6	13.5	4.3	33.5	4.1		55.4	63.0
79.5	4	1	17	14:56:26	18804	46.0	11.6	16.4	16.9	16.7	16.9		78.6	14.7	4.4	33.3	4.1		56.5	62.0
79.5	4	2	17	14:56:30	18805	44.0	11.5	13.9	13.9	14.9	13.8		67.8	13.5	4.3	33.5	4.1		55.4	63.0
78.8	54	1	18	15:06:01	18851	55.0	11.4	15.6	16.0	16.9	16.5		76.3	14.8	4.4	33.3	4.1		56.6	63.0
78.8	54	2	18	15:06:06	18852	55.0	11.1	14.2	13.8	15.6	14.1		68.7	13.5	4.3	33.6	4.1		55.5	62.0
76.9	63	1	19	15:16:16	18894	64.0	11.8	15.8	17.1	18.3	18.3		81.3	14.8	4.4	33.3	4.1		56.6	63.0
76.9	63	2	19	15:16:28	18895	65.0	11.6	13.9	13.6	16.8	16.2		72.2	13.5	4.3	33.4	4.1		55.3	63.0
76.1	45	1	20	15:26:00	18934	45.0	11.9	16.6	16.8	16.8	17.2		79.2	14.7	4.4	33.3	4.1		56.5	63.0
76.1	45	2	20	15:26:03	18935	45.0	12.0	13.9	13.6	14.6	14.1		68.4	13.5	4.3	33.6	4.1		55.5	62.0

Recorded By: <u>ABL</u>	Verified By: <u>GAH</u>	Run Set <u>Pre</u>
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Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS												STATE CODE: 04 SPS WIM ID: 040100 DATE: (mm/dd/yyyy): 10/16/2013									
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	
50.5	64	1	1	8:46:35	20895	64.0	11.4	15.1	15.8	17.2	17.8		77.2	14.7	4.4	33.4	4.1		56.6	62.0	
50.5	64	2	1	8:45:41	20896	65.0	11.9	12.9	12.9	16.4	14.4		68.5	13.5	4.3	33.6	4.1		55.5	63.0	
55.5	44	1	2	8:56:06	20919	44.0	12.1	16.3	16.2	16.9	17.3		78.9	14.8	4.4	33.3	4.1		56.6	63.0	
55.5	44	2	2	8:56:11	20920	45.0	12.0	13.8	13.4	16.5	13.5		69.2	13.6	4.3	33.6	4.2		55.7	62.0	
57.0	55	1	3	9:05:30	20946	54.0	11.6	15.7	16.6	16.6	16.2		76.6	14.7	4.4	33.3	4.1		56.5	62.0	
57.0	55	2	3	9:05:34	20947	54.0	11.6	13.9	13.5	15.2	13.8		68.1	13.5	4.3	33.7	4.1		55.6	62.0	
58.6	62	1	4	9:14:30	20972	65.0	11.4	15.2	15.9	17.1	17.8		77.4	14.8	4.4	33.4	4.1		56.7	63.0	
58.6	55	2	4	9:14:50	20976	55.0	11.2	14.0	13.6	14.6	13.3		66.7	13.5	4.4	33.8	4.1		55.8	63.0	
58.6	45	1	5	9:24:11	21006	44.0	11.8	16.5	16.5	16.6	17.0		78.5	14.8	4.4	33.4	4.1		56.7	62.0	
58.6	45	2	5	9:24:14	21007	44.0	11.8	14.0	13.1	14.4	13.3		66.7	13.5	4.3	33.6	4.1		55.5	62.0	
60.2	53	1	6	9:33:23	21038	55.0	11.7	15.9	16.4	16.2	15.8		75.9	14.8	4.4	33.3	4.1		56.6	62.0	
60.2	53	2	6	9:33:26	21039	55.0	11.6	13.7	13.7	14.2	14.0		67.3	13.5	4.3	33.6	4.1		55.5	62.0	
62.2	65	1	7	9:43:00	21062	65.0	11.4	15.3	15.7	17.6	17.6		77.7	14.7	4.4	33.2	4.1		56.4	62.0	
62.2	65	2	7	9:43:04	21063	65.0	12.2	12.9	12.7	16.1	14.2		68.0	13.5	4.3	33.4	4.1		55.3	61.0	
72.7	45	1	8	11:01:16	21337	44.0	12.2	16.4	16.2	16.4	15.2		76.4	14.7	4.4	33.2	4.1		56.4	62.0	
72.7	45	2	8	11:01:19	21338	44.0	12.0	13.7	13.7	14.4	13.8		67.6	13.5	4.3	33.5	4.1		55.4	62.0	
75.1	54	1	9	11:11:28	21373	55.0	11.8	15.5	16.2	16.6	16.4		76.4	14.8	4.4	33.4	4.1		56.7	63.0	
75.1	54	2	9	11:11:31	21374	55.0	11.6	14.5	13.8	14.9	13.2		68.0	13.5	4.3	33.6	4.2		55.6	62.0	
75.8	64	1	10	11:21:10	21409	64.0	11.3	15.4	15.8	17.4	17.1		77.0	14.8	4.4	33.3	4.1		56.6	62.0	
75.8	64	2	10	11:21:12	21410	65.0	11.8	12.7	12.4	15.4	15.0		67.3	13.5	4.3	33.5	4.1		55.4	63.0	
76.5	44	1	11	11:31:54	21456	44.0	11.8	16.7	16.4	17.1	15.5		77.5	14.7	4.4	33.2	4.1		56.4	61.0	
76.5	44	2	11	11:31:57	21457	44.0	11.7	13.9	13.7	14.5	13.4		67.2	13.5	4.3	33.4	4.2		55.4	62.0	
77.3	54	1	12	11:41:06	21491	55.0	11.9	15.6	16.1	16.6	16.0		76.4	14.8	4.4	33.2	4.1		56.5	61.0	
77.3	54	2	12	11:41:09	21492	55.0	11.7	14.0	13.7	15.3	14.0		68.7	13.6	4.3	33.7	4.1		55.7	62.0	
Recorded By: <u>ABL</u> Verified By: <u>GAH</u> Run Set <u>Cal 1</u>																					

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: 04 SPS WIM ID: 040100 DATE: (mm/dd/yyyy): 10/16/2013									
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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
78.2	64	1	13	11:50:33	21537	64.0	11.2	15.2	15.8	17.2	17.7		77.1	14.8	4.4	33.3	4.1		56.6	62.0
78.2	64	2	13	11:50:35	21538	64.0	12.0	13.3	13.1	15.1	14.4		67.8	13.5	4.3	33.5	4.1		55.4	62.0
77.6	45	1	14	12:00:40	21573	45.0	12.1	16.5	16.5	16.6	15.7		77.5	14.7	4.4	33.2	4.1		56.4	62.0
77.6	45	2	14	12:00:43	21574	45.0	12.6	14.0	13.5	16.0	13.8		69.8	13.5	4.3	33.6	4.1		55.5	62.0
81.5	64	1	15	13:20:18	21954	64.0	11.2	15.4	15.7	17.5	17.5		77.3	14.7	4.4	33.3	4.1		56.5	62.0
81.5	64	2	15	13:20:22	21955	65.0	11.7	13.3	13.1	15.4	14.6		68.0	13.5	4.3	33.6	4.1		55.5	62.0
83.3	44	1	16	13:30:32	22009	45.0	11.8	16.1	16.7	16.9	16.8		78.4	14.7	4.4	33.3	4.1		56.5	62.0
83.3	44	2	16	13:30:36	22010	45.0	12.5	13.8	13.4	14.4	13.6		67.9	13.5	4.3	33.6	4.1		55.5	62.0
81.8	55	1	17	13:41:45	22064	55.0	11.7	15.6	16.5	16.4	16.1		76.2	14.7	4.4	33.2	4.1		56.4	62.0
81.8	55	2	17	13:41:49	22065	55.0	11.8	14.2	13.7	14.6	14.1		68.3	13.5	4.3	33.6	4.1		55.5	62.0
83.4	64	1	18	13:51:17	22120	64.0	11.1	15.0	15.9	17.8	17.7		77.5	14.7	4.4	33.3	4.1		56.5	62.0
83.4	64	2	18	13:51:23	22121	65.0	11.7	13.1	13.4	15.4	14.6		68.2	13.5	4.3	33.5	4.1		55.4	63.0
82.5	45	1	19	14:02:32	22182	45.0	12.2	16.4	16.6	17.0	16.1		78.4	14.7	4.4	33.2	4.1		56.4	62.0
82.5	45	2	19	14:02:36	22183	45.0	12.7	14.1	13.9	16.4	13.6		70.6	13.5	4.3	33.5	4.1		55.4	62.0
82.5	54	1	20	14:12:24	22231	55.0	12.0	15.5	16.2	16.9	16.4		77.0	14.8	4.4	33.3	4.1		56.6	62.0
82.5	54	2	20	14:12:29	22232	55.0	11.5	14.2	13.9	15.1	14.2		68.8	13.5	4.3	33.6	4.1		55.5	62.0

Recorded By: <u>ABL</u>	Verified By: <u>GAH</u>	Run Set <u>Cal 1</u>
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<p align="center">Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY</p>	<p>STATE CODE: 04 SPS WIM ID: 040100 STATE ASSIGNED ID N/A DATE (mm/dd/yyyy) 10/16/2013</p>
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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: _____

<p align="center">Traffic Sheet 22</p> <p align="center">LTPP MONITORED TRAFFIC DATA</p> <p align="center">SITE EQUIPMENT ASSESSMENT</p> <p align="center">LTPP LANE ONLY</p>	<p>STATE CODE: 04</p> <p>SPS WIM ID: 040100</p> <p>STATE ASSIGNED ID N/A</p> <p>DATE (mm/dd/yyyy) 10/16/2013</p>
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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 ASSESSMENT LTPP LANE ONLY	STATE CODE: 04 SPS WIM ID: 040100 STATE ASSIGNED ID N/A DATE (mm/dd/yyyy) 10/16/2013
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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	<u>63.9</u>	mph	Average WIM Speed	<u>64.9</u>	mph
Mean Difference	<u>1.0</u>	mph	SD of mean	<u>4.9</u>	

Posted Speed Limit	<u>65</u>	mph			
Speed Range	15th percentile -	<u>65</u>	mph	85th percentile-	<u>76</u>
					mph

Spacing and Weight - Complete Sheet 21 and attach.

Average distance between axles of drive tandem			<u> </u>	feet
% error from 4.25 ft (industry average)	OR	<u>4.35</u>	ft (WIM system average)	
=	<u>2.4</u>	%		

Average front axle weight for Class 9 vehicles			<u> </u>	lbs
% error from 10.3 kips (industry average) OR		<u>11.8</u>	lbs (known site value)	
=	<u>14.4</u>	%		

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 occurrence.

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 ASSESSMENT LTPP LANE ONLY	STATE CODE:	04
	SPS WIM ID:	040100
	STATE ASSIGNED ID	N/A
	DATE (mm/dd/yyyy)	10/16/2013

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 _____

Traffic Sheet 22 Addendum - Weighpad LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE:	04
	SPS WIM ID:	040100
	STATE ASSIGNED ID	N/A
	DATE (mm/dd/yyyy)	10/16/2013

STATIC EQUIPMENT VALUES (SYSTEM OFF)

1. POWER

a. Solar Panel	<u>80</u>	WATTS	<u>22.9</u>	VDC
b. Equipment Power		VAC	<u>11.4</u>	VDC
c. Battery 1	<u>12.9</u>	VDC		
d. Battery 2	<u>12.9</u>	VDC		
e. Regulated	<u>12.9</u>	VDC		
f. Power Supply		VDC		VDC
g. System Input		VAC	<u>11.4</u>	VDC
h. Modem Power		VAC	<u>11.4</u>	VDC
i. Telephone	<u>53.4</u>	VDC		

2. LOOP SENSORS

	Resistance		Inductance		Shield	
a. Leading	<u>0.8</u>	Ω	<u>133.9</u>	μ h	<u>inf</u>	M Ω
b. Trailing	<u>0.8</u>	Ω	<u>136.8</u>	μ h	<u>inf</u>	M Ω

3. WEIGHPAD SENSORS

	Input		Output		Shield	
a. Leading	<u>984</u>	Ω	<u>846</u>	Ω	<u>inf</u>	Ω
b. Trailing	<u>986</u>	Ω	<u>846</u>	Ω	<u>inf</u>	Ω

DYNAMIC EQUIPMENT VALUES (SYSTEM ON)

4. LOOP SENSORS

	Frequency	
a. Leading	<u>8.3</u>	KHz
b. Trailing	<u>8.4</u>	KHz

5. WEIGHPAD SENSORS

	Zero Point	
a. Leading	<u>0.0</u>	mV
b. Trailing	<u>0.0</u>	mV

Assessor _____ 0 _____

<p align="center">Traffic Sheet 24A</p> <p align="center">LTPP MONITORED TRAFFIC DATA</p> <p align="center">SITE PHOTO LOG - Equipment</p>	<p>STATE CODE: 04</p> <p>SPS WIM ID: 040100</p> <p>DATE (mm/dd/yyyy) 10/16/2013</p>
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Item	Description	Filename
1	Power Source	040100_solar_panel_10_16_13.jpg
2	Telephone Source	040100_telephone_pedestal_10_15_13.jpg
3	Cabinet Exterior	040100_cabinet_exterior_10_16_13.jpg
4	Cabinet Interior - Front	040100_cabinet_interior_front_10_16_13.jpg
5	Cabinet Interior - Rear	040100_cabinet_interior_back_10_15_13.jpg
6	Leading weight sensor	040100_leading_WIM_sensor_10_15_13.jpg
7	Trailing weight sensor	040100_trailing_WIM_sensor_10_15_13.jpg
8	Leading classification sensor	
9	Trailing classification sensor	
10	Leading loop sensor	040100_leading_loop_10_15_13.jpg
11	Trailing loop sensor	040100_trailing_loop_10_15_13.jpg
12	Downstream from site	040100_downstream_10_15_13.jpg
13	Upstream from site	040100_upstream_10_15_13.jpg
14		
15		
16		
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<p align="center">Traffic Sheet 24B</p> <p align="center">LTPP MONITORED TRAFFIC DATA</p> <p align="center">SITE PHOTO LOG - Test Trucks</p>	<p>STATE CODE: 04</p> <p>SPS WIM ID: 040100</p> <p>DATE (mm/dd/yyyy) 10/16/2013</p>
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Item	Description	Filename
1	Tractor, Truck #1	040100_Truck_1_Tractor_10_15_13.jpg
2	Trailer/Load, Truck #1	040100_Truck_1_Trailer_10_15_13.jpg
3	Kingpin Offset, Truck #1	
4	Suspension A, Truck #1	040100_Truck_1_Suspension_1_10_15_13.jpg
5	Suspension B, Truck #1	040100_Truck_1_Suspension_2_10_15_13.jpg
6	Suspension C, Truck #1	040100_Truck_1_Suspension_3_10_15_13.jpg
7	Suspension D, Truck #1	040100_Truck_1_Suspension_4_10_15_13.jpg
8	Suspension E, Truck #1	040100_Truck_1_Suspension_5_10_15_13.jpg
9	Suspension F, Truck #1	
10	Tractor, Truck #2	040100_Truck_2_Tractor_10_15_13.jpg
11	Trailer/Load, Truck #2	040100_Truck_2_Trailer_10_15_13.jpg
12	Kingpin Offset, Truck #2	
13	Suspension A, Truck #2	040100_Truck_2_Suspension_1_10_15_13.jpg
14	Suspension B, Truck #2	040100_Truck_2_Suspension_2_10_15_13.jpg
15	Suspension C, Truck #2	040100_Truck_2_Suspension_3_10_15_13.jpg
16	Suspension D, Truck #2	040100_Truck_2_Suspension_4_10_15_13.jpg
17	Suspension E, Truck #2	040100_Truck_2_Suspension_5_10_15_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		