

WIM System Field Calibration and Validation Handout Guide

New Mexico, SPS-1
SHRP ID – 350100

Validation Date: January 12, 2011



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1 Site Information

Site ID:	350100	State:	New Mexico
LTPP Region:	Southern	Configuration:	loop-quartz-quartz-loop
Controller Type:	iSINC	Sensor Type:	Quartz Piezo
Power:	Solar	Communication:	Cellular
Class Scheme:	LTPP Mar 06	CPU type/setup:	

2 Contact Information

Agency	Contact	Position	Phone	E-mail
FHWA	Debbie Walker	COTR	202-493-3068	deborah.walker@dot.gov
FHWA	Steve Von Stein	Division Office	505-820-2028	steve.von.stein@fhwa.dot.gov
RSC	Mark Gardner	Project Manager	512-977-1800	mgardner@fugro.com
NMDOT	Parveez Anwar	LTPP Coordinator	505-827-5656	parveez.anwar@state.nm.us
NMDOT	Antonio Abeyta	Data Mgmt Chief	505-827-5543	antonio.abeyta@state.nm.us
NMDOT	Josh McClenahan	Traffic Contact	505-827-5137	josh.mclenahan@state.nm.us
ARA	Dean Wolf	Task Leader	717-512-6638	dwolf@ara.com
ARA	Olga Selezneva	Project Manager	410-540-9949	oselezneva@ara.com
	Emmett Devenport	Truck Vendor	575-589-5934	EDevenport@aol.com

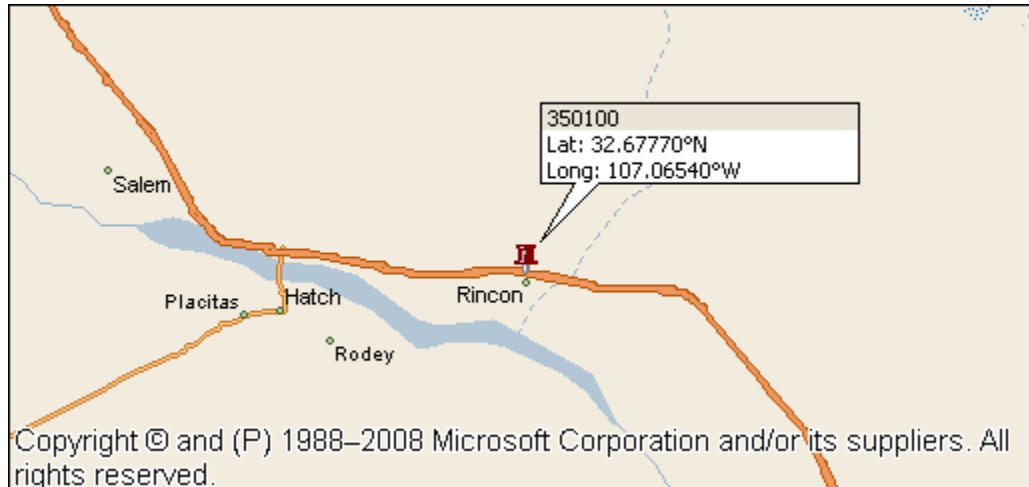
3 Schedule of Events

Date	Event	Location	Start Time
1/10/11	Travel	Las Cruces, NM	TBD
1/11/11	Equipment Assessment	WIM Site	TBD
1/11/11	Test Truck Weigh/Measure/Inspection	TA, Las Cruces, NM	6:30 am
1/11/11	Initial Performance Evaluation	WIM Site	9:00 am
1/11/11	System Test/Class and Speed Study	WIM Site	TBD
1/12/11	Validation	WIM Site	TBD
1/12/11	Travel	Las Cruces, NM	TBD

4 Maps

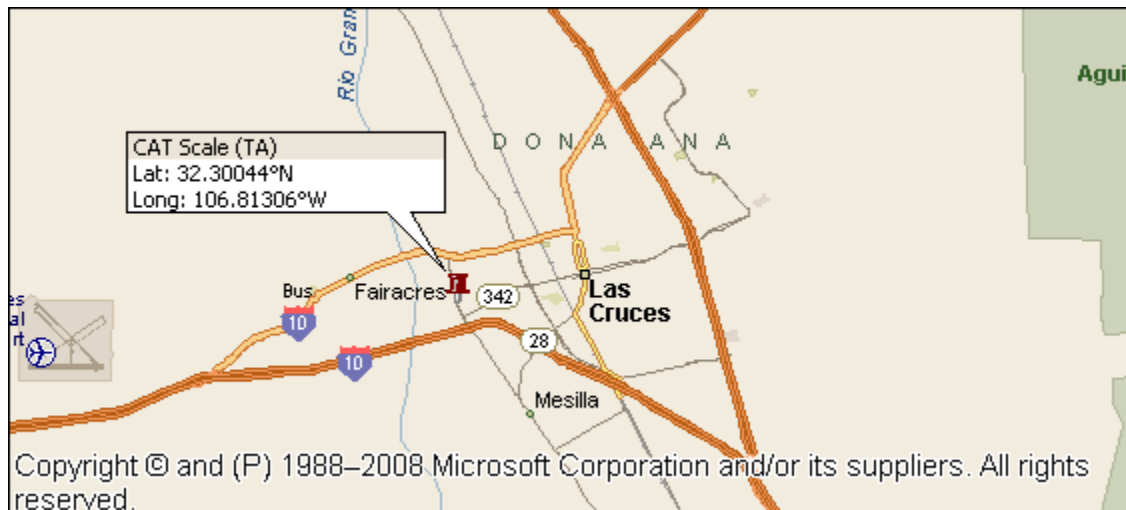
4.1 Site Location

Location:	I-25 North at M.P. 36.1		Direction:	NB
Latitude:	32.67770°	Longitude:	-107.06540°	



4.2 Truck Scale Location

Name:	TA, Las Cruces	Location:	I-10 & Exit 139
Latitude:	32.30044°	Longitude:	-106.81306°



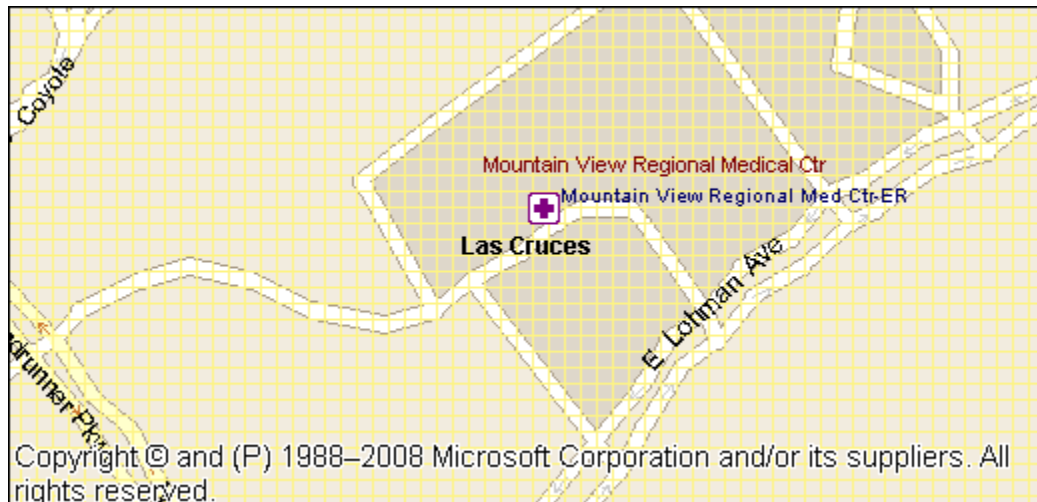
4.3 Airport Location

Name:	El Paso International Airport	Location:	El Paso, TX
Latitude:	31.8008°	Longitude:	-106.3917°



4.4 Hospital Location

Name:	Mountain View Regional Medical Center - ER		
Phone:	575- 556-7600	Location:	4311 E. Lohman Ave., Las Cruces, NM



5 Occupational Health and Safety Plan

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

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

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

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

6 Contingency Plan

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

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

Traffic Sheet 17 LTPP MONITORED TRAFFIC DATA WIM SITE INVENTORY	STATE CODE:	35
	SPS WIM ID:	350100
	DATE (mm/dd/yyyy)	1/11/2011

1. ROUTE: I-25 **MILEPOST:** 36.1 **LTPP DIRECTION:** north

2. WIM SITE DESCRIPTION

Grade: <u>1 to 2%</u>	Sag Vertical: <u>N</u>
Nearest Upstream SPS Section:	<u>350101</u>
Distance from sensors to SPS Section:	850 ft

3. LANE CONFIGURATION

Lanes in LTPP direction:	<u>2</u>	Median:	<u>3 - grass</u>
Lane width:	<u>12'</u>	Shoulder:	<u>2 - paved AC</u>
Shoulder width:	<u>13'</u>		

4. PAVEMENT TYPE AC

5. PAVEMENT SURFACE CONDITION - Distress Survey

Date: <u>1/11/11</u>	Photo Filename: <u>350100_upstream_01_11_11.jpg</u>
Date: <u>1/11/11</u>	Photo Filename: <u>350100_downstream_01_11_11.jpg</u>
Date:	Photo Filename:

6. SENSOR SEQUENCE

Loop - Quartz - Quartz - 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*) : _____
 Clearance under plate (in.): _____
 Clearance /access to flush fines from under system: _____

Traffic Sheet 17 LTPP MONITORED TRAFFIC DATA WIM SITE INVENTORY	STATE CODE:	35
	SPS WIM ID:	350100
	DATE (mm/dd/yyyy)	1/11/2011

10. CABINET LOCATION

Same side of road as LTPP lane: Y
 Distance from edge of traveled lane: 50 ft
 distance from system: 56 ft
 type: M

Cabinet access controlled by: Agency and LTPP

Contact name: Roy Czinku Phone # 306-653-6627
 Alternate name: Robert Meyers Phone # 505-827-5466

11. POWER

Distance to cabinet from drop: 12 ft
 Type: Solar
 AC in cabinet? N
 Service provider: _____ Phone # _____

12. TELEPHONE

Distance to cabinet from drop: 0 ft
 Type: cellular
 Service provider: _____ Phone # _____

13. SYSTEM

Software and version no. iSINC
 Computer connection: RS-232

14. TEST TRUCK TURNAROUND TIME

Duration: _____ minutes Distance: _____ miles

15. PHOTOS

Filename

Power source: 350100_solar_panel_01_11_11.jpg
 Phone source: 350100_cellular_modem_01_11_11.jpg
 Cabinet exterior: 350100_cabinet_exterior_01_11_11.jpg
 Cabinet interior: 350100_cabinet_interior_front_01_11_11.jpg
 Weight sensors: 350100_leading_WIM_sensor_01_11_11.jpg
 350100_trailing_WIM_sensor_01_11_11.jpg
 Other sensors: 350100_leading_loop_01_11_11.jpg
 350100_trailing_loop_01_11_11.jpg
 Downstream from sensors on LTPP lane: 350100_downstream_01_11_11.jpg
 Upstream from sensors on LTPP lane: 350100_upstream_01_11_11.jpg

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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1. DATA PROCESSING

- a. Download: LTPP download and copy to state
- 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 Separate contract LTPP
Expiration Date
- d. Calibration LTPP
- e. Manuals and software control: LTPP
- f. Power
i. Type Solar ii. Payment N/A
- g. Communication
i. Type Cellular ii. Payment State

3. PAVEMENT

- a. Type Asphalt Concrete
- b. Allowable Rehabilitation activities Replacement as needed
- c. Profile Site Markings Temporary

Traffic Sheet 18 LTPP MONITORED TRAFFIC DATA WIM SITE COORDINATION	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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:

- 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: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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 # 306-653-6627
 - Agency IRD
- b. Maintenance (equipment)
 - Name Roy Czinku Phone # 306-653-6627
 - Agency IRD
- c. Data Processing and pre-visit data
 - Name _____ Phone # _____
 - Agency _____
- 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: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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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		9980	9640	Direct
B		16535	16400	Direct
C		16535	16400	Direct
D		16455	16445	Direct
E		16455	16445	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 75960
- c. Post Test Loaded Weight: 75330
- d. Difference Post Test - Pre-Tests: 630

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

- b. Make: Peterbilt
c. Model: unknown

- d. Trailer Load Distribution Description:

crane counterweight loaded mid-trailer

photo: ☒

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

A to B 15.9 B to C 4.3 C to D 36.0 D to E 5.0 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 61.2
- i. Kingpin offset from Axle B (units) 2'0" photo: ☐
- j. Overall Length - ☒ Measured 71

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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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	11R24.5	steel spring	☒
B	11R24.5	air	☒
C	11R24.5	air	☒
D	285/75R22.5	air	☒
E	285/75R22.5	air	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
93.1	96.7	91.3	112.1	113.3	
90.8	94.6	92.1	120.4	119.4	
	96.6	94.4	116.5	118.4	
	99.7	106.4	115.3	114.7	

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 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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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

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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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	10020	16520	16520	16440	16440		75940
2	9940	16550	16550	16470	16470		75980
Avg.	9980	16535	16535	16455	16455		75960

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	9620	16410	16410	16450	16450		75340
2	9660	16390	16390	16440	16440		75320
Avg.	9640	16400	16400	16445	16445		75330

Validation Test Truck Run Set - Pre

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35
	SPS WIM ID: 350100
	DATE (mm/dd/yyyy) 1/11/2011

CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5
3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		11570	11290	Direct
B		14670	14510	Direct
C		14670	14510	Direct
D		12660	12655	Direct
E		12660	12655	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 66230
- c. Post Test Loaded Weight: 65620
- d. Difference Post Test - Pre-Tests: 610

5. TRUCK DESCRIPTION

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

- b. Make: Peterbilt
- c. Model: unknown

d. Trailer Load Distribution Description:

railcar trucks loaded along trailer

photo: ☒

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

A to B 17.9 B to C 4.3 C to D 27.3 D to E 4.1 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 53.6
- i. Kingpin offset from Axle B (units) 1'1" photo: ☐
- j. Overall Length - ☒ Measured 58.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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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	11R24.5	steel spring	☒
B	11R24.5	steel spring	☒
C	11R24.5	steel spring	☒
D	11R24.5	steel spring	☒
E	11R24.5	steel spring	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
113.6	112.0	91.2	106.5	103.9	
112.6	112.0	92.9	109.6	103.9	
	100.4	90.4	108.6	103.7	
	85.2	94.9	100.6	100.4	

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 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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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

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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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	11560	14680	14680	12650	12650		66220
2	11580	14660	14660	12670	12670		66240
Avg.	11570	14670	14670	12660	12660		66230

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11320	14480	14480	12670	12670		65620
2	11260	14540	14540	12640	12640		65620
Avg.	11290	14510	14510	12655	12655		65620

Validation Test Truck Run Set - Pre

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
--	---

CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5
3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		9960	0	Direct
B		16605	0	Direct
C		16605	0	Direct
D		16440	0	Direct
E		16440	0	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 76050
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 76050

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

- b. Make: Peterbilt
c. Model: unknown

- d. Trailer Load Distribution Description:

crane counterweight loaded mid-trailer

photo: ☒

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

A to B 15.9 B to C 4.3 C to D 36.0 D to E 5.0 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 61.2
- i. Kingpin offset from Axle B (units) 2'0" photo: ☐
- j. Overall Length - ☒ Measured 71

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11R24.5	steel spring	☒
B	11R24.5	air	☒
C	11R24.5	air	☒
D	285/75R22.5	air	☒
E	285/75R22.5	air	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
93.1	96.7	91.3	112.1	113.3	
90.8	94.6	92.1	120.4	119.4	
	96.6	94.4	116.5	118.4	
	99.7	106.4	115.3	114.7	

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 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	9900	16630	16630	16440	16440		76040
2	10020	16580	16580	16440	16440		76060
Avg.	9960	16605	16605	16440	16440		76050

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Validation Test Truck Run Set - Cal 1

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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		11640	0	Direct
B		14720	0	Direct
C		14720	0	Direct
D		12655	0	Direct
E		12655	0	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 66390
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 66390

5. TRUCK DESCRIPTION

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

- b. Make: Peterbilt
c. Model: unknown

d. Trailer Load Distribution Description:

railcar trucks loaded along trailer

photo: ☒

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

A to B 17.9 B to C 4.3 C to D 27.3 D to E 4.1 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 53.6
- i. Kingpin offset from Axle B (units) 1'1" photo: ☐
- j. Overall Length - ☒ Measured 58.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11R24.5	steel spring	☒
B	11R24.5	steel spring	☒
C	11R24.5	steel spring	☒
D	11R24.5	steel spring	☒
E	11R24.5	steel spring	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
113.6	112.0	91.2	106.5	103.9	
112.6	112.0	92.9	109.6	103.9	
	100.4	90.4	108.6	103.7	
	85.2	94.9	100.6	100.4	

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 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11660	14700	14700	12660	12660		66380
2	11620	14740	14740	12650	12650		66400
Avg.	11640	14720	14720	12655	12655		66390

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Validation Test Truck Run Set - Cal 1

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 35
	SPS WIM ID: 350100
	DATE (mm/dd/yyyy) 1/12/2011

CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5
3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		9960	0	Direct
B		16605	0	Direct
C		16605	0	Direct
D		16440	0	Direct
E		16440	0	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 76050
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 76050

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

- b. Make: Peterbilt
c. Model: unknown

- d. Trailer Load Distribution Description:

crane counterweight loaded mid-trailer

photo: ☒

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

A to B 15.9 B to C 4.3 C to D 36.0 D to E 5.0 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 61.2
- i. Kingpin offset from Axle B (units) 2'0" photo: ☐
- j. Overall Length - ☒ Measured 71

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11R24.5	steel spring	☒
B	11R24.5	air	☒
C	11R24.5	air	☒
D	285/75R22.5	air	☒
E	285/75R22.5	air	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
93.1	96.7	91.3	112.1	113.3	
90.8	94.6	92.1	120.4	119.4	
	96.6	94.4	116.5	118.4	
	99.7	106.4	115.3	114.7	

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 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	9900	16630	16630	16440	16440		76040
2	10020	16580	16580	16440	16440		76060
Avg.	9960	16605	16605	16440	16440		76050

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Validation Test Truck Run Set - Cal 2

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35
	SPS WIM ID: 350100
	DATE (mm/dd/yyyy) 1/12/2011

CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5
3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		11640	0	Direct
B		14720	0	Direct
C		14720	0	Direct
D		12655	0	Direct
E		12655	0	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 66390
- c. Post Test Loaded Weight: 0
- d. Difference Post Test - Pre-Tests: 66390

5. TRUCK DESCRIPTION

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

- b. Make: Peterbilt
c. Model: unknown

d. Trailer Load Distribution Description:

railcar trucks loaded along trailer

photo: ☒

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

A to B 17.9 B to C 4.3 C to D 27.3 D to E 4.1 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 53.6
- i. Kingpin offset from Axle B (units) 1'1" photo: ☐
- j. Overall Length - ☒ Measured 58.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11R24.5	steel spring	☒
B	11R24.5	steel spring	☒
C	11R24.5	steel spring	☒
D	11R24.5	steel spring	☒
E	11R24.5	steel spring	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
113.6	112.0	91.2	106.5	103.9	
112.6	112.0	92.9	109.6	103.9	
	100.4	90.4	108.6	103.7	
	85.2	94.9	100.6	100.4	

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 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11660	14700	14700	12660	12660		66380
2	11620	14740	14740	12650	12650		66400
Avg.	11640	14720	14720	12655	12655		66390

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Validation Test Truck Run Set - Cal 2

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 1	STATE CODE: 35
	SPS WIM ID: 350100
	DATE (mm/dd/yyyy) 1/12/2011

CALIBRATION TEST TRUCK - Primary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5
3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		9960	9730	Direct
B		16605	16440	Direct
C		16605	16440	Direct
D		16440	16420	Direct
E		16440	16420	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 76050
- c. Post Test Loaded Weight: 75450
- d. Difference Post Test - Pre-Tests: 600

5. TRUCK DESCRIPTION

- a. Tractor Cab Style: Conventional Sleeper Cab: Yes
photo: ☒

- b. Make: Peterbilt
c. Model: unknown

- d. Trailer Load Distribution Description:

crane counterweight loaded mid-trailer

photo: ☒

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

A to B 15.9 B to C 4.3 C to D 36.0 D to E 5.0 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 61.2
- i. Kingpin offset from Axle B (units) 2'0" photo: ☐
- j. Overall Length - ☒ Measured 71

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11R24.5	steel spring	☒
B	11R24.5	air	☒
C	11R24.5	air	☒
D	285/75R22.5	air	☒
E	285/75R22.5	air	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
93.1	96.7	91.3	112.1	113.3	
90.8	94.6	92.1	120.4	119.4	
	96.6	94.4	116.5	118.4	
	99.7	106.4	115.3	114.7	

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 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>1</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	9900	16630	16630	16440	16440		76040
2	10020	16580	16580	16440	16440		76060
Avg.	9960	16605	16605	16440	16440		76050

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	9720	16450	16450	16420	16420		75460
2	9740	16430	16430	16420	16420		75440
Avg.	9730	16440	16440	16420	16420		75450

Validation Test Truck Run Set - Post

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35
	SPS WIM ID: 350100
	DATE (mm/dd/yyyy) 1/12/2011

CALIBRATION TEST TRUCK - Secondary

PART A

1. FHWA CLASS: 9 2. Number of axles: 5
3. AXLE WEIGHTS (lbs)

	a. Empty Truck Avg. Axle Weight	b. Pre-test Average Axle Weight	c. Post-Test Avg. Axle Weight	d. Direct or Calculated?
A		11640	11310	Direct
B		14720	14570	Direct
C		14720	14570	Direct
D		12655	12645	Direct
E		12655	12645	Direct
F				

4. GVW (same units as axles)

- a. Empty GVW: _____
- b. Average Pre-Test Loaded weight: 66390
- c. Post Test Loaded Weight: 65740
- d. Difference Post Test - Pre-Tests: 650

5. TRUCK DESCRIPTION

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

- b. Make: Peterbilt
c. Model: unknown

d. Trailer Load Distribution Description:

railcar trucks loaded along trailer

photo: ☒

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

A to B 17.9 B to C 4.3 C to D 27.3 D to E 4.1 E to F _____

- h. Wheelbase - ☐ Measured _____ ☒ Computed 53.6
- i. Kingpin offset from Axle B (units) 1'1" photo: ☐
- j. Overall Length - ☒ Measured 58.3

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # <u>2</u>	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11R24.5	steel spring	☒
B	11R24.5	steel spring	☒
C	11R24.5	steel spring	☒
D	11R24.5	steel spring	☒
E	11R24.5	steel spring	☒
F			☐

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

Steering Axle	Axle B	Axle C	Axle D	Axle E	Axle F
113.6	112.0	91.2	106.5	103.9	
112.6	112.0	92.9	109.6	103.9	
	100.4	90.4	108.6	103.7	
	85.2	94.9	100.6	100.4	

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 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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

Traffic Sheet 19 LTPP MONITORED TRAFFIC DATA CALIBRATION TEST TRUCK # 2	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/12/2011
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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	11660	14700	14700	12660	12660		66380
2	11620	14740	14740	12650	12650		66400
Avg.	11640	14720	14720	12655	12655		66390

Table 7- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

Table 8- Raw Data- Axle scales -

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1							
2							
Avg.							

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

Pass	Axle A	Axle B	Axle C	Axle D	Axle E	Axle F	GVW
1	11240	14540	14540	12650	12650		65620
2	11380	14600	14600	12640	12640		65860
Avg.	11310	14570	14570	12645	12645		65740

Validation Test Truck Run Set - Post

Measured By: Kevin Trousdale

Verified By: Dean J. Wolf

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: SPS WIM ID: DATE: (mm/dd/yyyy):			
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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
37.7	63	2	1	8:46:57	19335	64.0	11.0	16.0	13.8	13.3	12.1		66.1	17.9	4.4	27.5
37.7	65	1	1	8:47:01	19336	62.0	9.8	16.5	16.5	13.2	17.5		73.6	15.9	4.4	36.4
37.4	69	2	2	9:17:35	19409	69.0	11.8	14.8	13.9	13.2	11.9		65.7	18.0	4.4	27.4
37.4	68	1	2	9:17:40	19410	68.0	9.3	15.6	15.5	13.5	17.5		71.2	15.9	4.4	36.4
41.1	74	2	3	9:39:48	19469	75.0	11.0	15.1	15.6	12.8	12.5		67.0	18.0	4.4	27.7
41.1	71	1	3	9:39:55	19470	71.0	9.5	16.4	15.6	12.6	18.0		72.2	15.8	4.4	36.3
46.0	54	2	4	9:59:31	19513	56.0	11.7	15.2	15.0	13.7	12.2		67.9	18.0	4.4	27.3
46.0	52	1	4	9:59:56	19514	52.0	9.9	17.3	17.6	14.1	18.5		77.5	15.7	4.4	36.1
49.6	64	2	5	10:21:40	19560	64.0	10.9	14.8	14.7	13.3	12.4		66.3	18.0	4.4	27.5
49.6	61	1	5	10:22:01	19562	61.0	9.8	16.6	17.3	13.9	17.5		75.1	15.7	4.3	36.1
49.6	73	2	6	10:46:48	19617	73.0	11.1	14.8	15.1	12.8	12.3		66.0	18.0	4.4	27.5
49.6	72	1	6	10:46:57	19618	73.0	8.8	15.9	15.9	13.2	17.4		71.3	16.0	4.4	36.5
58.0	53	2	7	11:12:30	19682	55.0	11.4	14.9	14.5	12.8	11.9		65.5	18.0	4.4	27.5
58.0	51	1	7	11:12:46	19683	50.0	9.6	16.9	17.3	14.8	17.8		76.4	15.8	4.4	36.2
61.1	64	2	8	12:05:14	19817	64.0	11.4	14.2	14.5	13.4	12.5		66.1	18.0	4.4	27.5
61.1	61	1	8	12:05:28	19819	61.0	9.3	16.1	15.9	14.0	17.5		72.7	15.9	4.4	36.3
67.4	73	2	9	12:27:23	19872	73.0	11.0	15.6	15.3	13.4	12.7		67.9	18.0	4.4	27.5
67.4	71	1	9	12:27:28	19873	72.0	9.2	16.1	15.8	15.3	17.9		74.3	15.8	4.4	36.4
67.0	55	2	10	12:51:28	19928	54.0	11.3	15.1	14.3	12.6	12.3		65.6	18.0	4.4	27.5
67.0	51	1	10	12:51:56	19930	51.0	9.6	16.1	16.4	14.3	18.3		74.7	15.7	4.3	36.1
66.9	73	2	11	13:13:42	19991	73.0	11.1	15.4	14.6	13.4	12.9		67.4	18.0	4.4	27.5
66.9	73	1	11	15:11:53	19992	73.0	8.7	16.1	15.1	12.8	17.9		70.7	15.9	4.4	36.4
63.8	55	2	12	13:37:35	20053	55.0	11.5	15.3	14.0	14.7	12.9		68.4	17.9	4.4	27.5
63.8	51	1	12	13:37:45	20054	50.0	9.8	17.1	17.4	13.3	17.9		75.5	15.8	4.4	36.3

Recorded By: _____ kt

Verified By: _____ dlw

[illegible]

[illegible]

Traffic Sheet 21 (Wheel Load) LTPP MONITORED TRAFFIC DATA WIM SYSTEM TRUCK RECORDS										STATE CODE: SPS WIM ID: DATE: (mm/dd/yyyy):			
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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
34.4	55	2	1	9:01:49	21827	55.0	11.3	14.6	13.9	12.9	12.5		65.1	17.8	4.4	27.2
34.4	54	1	1	9:01:50	21828	54.0	9.9	17.3	17.0	15.2	17.6		76.9	15.7	4.4	36.1
35.8	64	2	2	9:16:44	21864	63.0	11.8	16.2	14.4	14.2	13.5		70.1	17.9	4.4	27.1
35.8	65	1	2	9:16:53	21865	65.0	9.9	17.0	16.6	13.7	17.3		74.5	15.7	4.4	35.9
38.3	72	2	3	9:31:20	21897	73.0	11.6	15.0	14.9	13.0	13.5		68.0	17.8	4.4	27.3
38.3	75	1	3	9:31:26	21898	75.0	9.2	16.3	16.3	12.4	17.1		71.4	15.7	4.4	35.9
36.8	54	2	4	9:40:57	21923	54.0	11.2	14.9	13.9	12.8	12.0		64.9	17.8	4.4	27.2
36.8	55	1	4	9:41:23	21924	57.0	9.5	18.1	17.5	14.7	18.0		77.8	15.7	4.4	36.0
39.8	73	2	5	9:57:28	21958	73.0	11.5	15.0	14.8	13.2	12.6		67.1	17.8	4.4	27.3
39.8	67	1	5	9:57:39	21959	67.0	9.7	16.5	16.7	12.8	18.0		73.6	15.7	4.3	35.8
42.3	63	2	6	10:14:32	21998	63.0	12.0	16.3	14.6	14.1	13.8		70.8	17.8	4.4	27.2
42.3	74	1	6	10:14:52	21999	75.0	9.5	16.1	15.8	13.1	17.1		71.8	15.8	4.3	36.1
41.5	54	2	7	10:24:43	22027	55.0	10.9	14.3	14.1	12.7	12.2		64.2	17.8	4.3	27.2
41.5	56	1	7	10:24:57	22028	57.0	9.8	17.4	17.2	14.6	17.7		76.7	15.7	4.4	36.1
42.2	64	2	8	10:40:18	22068	63.0	11.7	14.4	15.1	13.7	13.1		67.9	17.8	4.4	27.2
42.2	65	1	8	10:40:28	22069	65.0	10.0	15.5	15.4	12.0	16.0		68.9	15.7	4.3	35.9
45.4	73	2	9	10:55:01	22105	73.0	11.4	14.7	14.4	13.3	12.5		66.2	17.9	4.4	27.4
45.4	74	1	9	10:55:28	22107	75.0	9.1	15.7	15.7	14.3	17.4		72.2	15.7	4.4	36.2
49.5	54	2	10	11:07:50	22139	55.0	11.3	14.9	14.3	12.9	12.0		65.4	17.9	4.4	27.1
49.5	55	1	10	11:08:06	22140	57.0	9.5	16.8	16.2	14.4	17.8		74.9	15.7	4.4	36.2

Recorded By: _____ kt

Verified By: _____ dlw

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
34.4	55	2	1	9:01:49	21827	55.0	11.3	14.6	13.9	12.9	12.5		65.1	17.8	4.4	27.2
34.4	54	1	1	9:01:50	21828	54.0	9.9	17.3	17.0	15.2	17.6		76.9	15.7	4.4	36.1
35.8	64	2	2	9:16:44	21864	63.0	11.8	16.2	14.4	14.2	13.5		70.1	17.9	4.4	27.1
35.8	65	1	2	9:16:53	21865	65.0	9.9	17.0	16.6	13.7	17.3		74.5	15.7	4.4	35.9
38.3	72	2	3	9:31:20	21897	73.0	11.6	15.0	14.9	13.0	13.5		68.0	17.8	4.4	27.3
38.3	75	1	3	9:31:26	21898	75.0	9.2	16.3	16.3	12.4	17.1		71.4	15.7	4.4	35.9
36.8	54	2	4	9:40:57	21923	54.0	11.2	14.9	13.9	12.8	12.0		64.9	17.8	4.4	27.2
36.8	56	1	4	9:41:23	21924	57.0	9.5	18.1	17.5	14.7	18.0		77.8	15.7	4.4	36.0
39.8	73	2	5	9:57:28	21958	73.0	11.5	15.0	14.8	13.2	12.6		67.1	17.8	4.4	27.3
39.8	67	1	5	9:57:39	21959	67.0	9.7	16.5	16.7	12.8	18.0		73.6	15.7	4.3	35.8
42.3	63	2	6	10:14:32	21998	63.0	12.0	16.3	14.6	14.1	13.8		70.8	17.8	4.4	27.2
42.3	74	1	6	10:14:52	21999	75.0	9.5	16.1	15.8	13.1	17.1		71.8	15.8	4.3	36.1
41.5	54	2	7	10:24:43	22027	55.0	10.9	14.3	14.1	12.7	12.2		64.2	17.8	4.3	27.2
41.5	56	1	7	10:24:57	22028	57.0	9.8	17.4	17.2	14.6	17.7		76.7	15.7	4.4	36.1
42.2	64	2	8	10:40:18	22068	63.0	11.7	14.4	15.1	13.7	13.1		67.9	17.8	4.4	27.2
45.4	73	2	9	10:55:01	22105	73.0	11.4	14.7	14.4	13.3	12.5		66.2	17.9	4.4	27.4
45.4	74	1	8	10:55:28	22107	75.0	9.1	15.7	15.7	14.3	17.4		72.2	15.7	4.4	36.2
49.5	54	2	10	11:07:50	22139	55.0	11.3	14.9	14.3	12.9	12.0		65.4	17.9	4.4	27.1
49.5	56	1	9	11:08:06	22140	57.0	9.5	16.8	16.2	14.4	17.8		74.9	15.7	4.4	36.2
46.9	64	2	11	11:24:19	22181	64.0	11.9	16.0	14.5	14.9	12.3		69.7	17.8	4.4	27.2
48.2	71	2	12	11:39:14	22226	70.0	11.6	15.3	15.3	14.0	12.9		69.1	17.9	4.4	27.3
48.2	75	1	10	11:39:24	22227	75.0	9.4	16.3	16.3	12.9	17.7		72.5	15.8	4.4	36.3
53.4	55	2	13	11:49:23	22252	55.0	11.4	15.4	14.4	12.7	12.0		66.0	17.9	4.4	27.3
53.4	55	1	11	11:49:28	22253	55.0	9.7	16.7	16.4	11.9	16.3		71.0	15.7	4.4	36.0

Recorded By: _____ kt

Verified By: _____ dlw

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 35 SPS WIM ID: 350100 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 1/11/2011
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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

no sensor deficiencies noted

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.

no irregular truck dynamics noted

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

Tape Filename: _____

Time: _____

From: _____

To: _____

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 35 SPS WIM ID: 350100 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 1/11/2011
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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: 35 SPS WIM ID: 350100 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 1/11/2011
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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>66.5</u> mph	Average WIM Speed	<u>67.0</u> mph
Mean Difference	<u>0.6</u> mph	SD of mean	<u>1.5</u>
Posted Speed Limit	<u>75</u> mph		
Speed Range	15th percentile - <u>62</u> mph	85th percentile-	<u>75</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>4.40</u> ft (WIM system average)
= <u>3.4</u> %		
Average front axle weight for Class 9 vehicles		<u> </u> lbs
% error from 10.3 kips (industry average) OR		<u>10.3</u> lbs (known site value)
= <u>0.1</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 ☒

Pull Boxes None ☒

Mast None ☒

Solar Panels None ☒

Traffic Sheet 22 LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE:	35
	SPS WIM ID:	350100
	STATE ASSIGNED ID	0
	DATE (mm/dd/yyyy)	1/11/2011

Telephone D-Mark Box None ☐

N/A

Power Service Box None ☐

N/A

Grounding None ☒

Conduit None ☒

STATIC AND DYNAMIC ELECTRONIC EQUIPMENT TESTS

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

ADDITIONAL COMMENTS

Assessor _____ **Dean J. Wolf**

Traffic Sheet 22 Addendum - Kistler Quartz LTPP MONITORED TRAFFIC DATA SITE EQUIPMENT ASSESSMENT LTPP LANE ONLY	STATE CODE: 35 SPS WIM ID: 350100 STATE ASSIGNED ID 0 DATE (mm/dd/yyyy) 1/11/2011
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STATIC EQUIPMENT VALUES (SYSTEM OFF)

1. POWER

a. Solar Panel	160	WATTS	21.4	VDC
b. Equipment Power		VAC		VDC
c. Battery 1	13.7	VDC		
d. Battery 2	13.7	VDC		
e. Regulated	14.6	VDC		
f. Power Supply		VDC		VDC
g. System Input		VAC	11.3	VDC
h. Modem Power		VAC	11.3	VDC
i. Telephone		VDC		

2. LOOP SENSORS

	Resistance	Inductance	Shield
a. Leading	0.5 Ω	129.4 μ h	INF M Ω
b. Trailing	0.5 Ω	130.5 μ h	INF M Ω

3. KISTLER SENSORS

	Resistance	Capacitance
a. K1 (lead/left)	10 ¹⁰ Ω	6.1 nF
b. K2 (lead/middle)	10 ¹⁰ Ω	4.9 nF
c. K3 (lead mid/right)	10 ¹⁰ Ω	5.3 nF
d. K4 (lead/right)	10 ¹⁰ Ω	4.9 nF
e. K5 (trail/left)	10 ¹⁰ Ω	6.9 nF
f. K6 (trail/mid left)	10 ⁹ Ω	4.8 nF
g. K7 (trail/mid right)	10 ¹⁰ Ω	4.9 nF
h. K8 (trail/right)	10 ¹⁰ Ω	4.1 nF

DYNAMIC EQUIPMENT VALUES (SYSTEM ON)

4. LOOP SENSORS

	Frequency
a. Leading	18.2 KHz
b. Trailing	15.1 KHz

5. KISTLER SENSORS

Dynamic testing for the Kistler Quartz sensor is not recommended.

Assessor Dean J. Wolf

Traffic Sheet 24A LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Equipment	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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Item	Description	Filename
1	Power Source	350100_solar_panel_01_11_11.jpg
2	Telephone Source	350100_cellular_modem_01_11_11.jpg
3	Cabinet Exterior	350100_cabinet_exterior_01_11_11.jpg
4	Cabinet Interior	350100_cabinet_interior_front_01_11_11.jpg
5	Leading weight sensor	350100_leading_WIM_sensor_01_11_11.jpg
6	Trailing weight sensor	350100_trailing_WIM_sensor_01_11_11.jpg
7	Leading classification sensor	
8	Trailing classification sensor	
9	Leading loop sensor	350100_leading_loop_01_11_11.jpg
10	Trailing loop sensor	350100_trailing_loop_01_11_11.jpg
11	Downstream from site	350100_downstream_01_11_11.jpg
12	Upstream from site	350100_upstream_01_11_11.jpg
13	Cabinet Interior - Rear	350100_cabinet_interior_01_11_11.jpg
14		
15		
16		
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RECORDED BY: _____ Dean J. Wolf

Traffic Sheet 24B LTPP MONITORED TRAFFIC DATA SITE PHOTO LOG - Test Trucks	STATE CODE: 35 SPS WIM ID: 350100 DATE (mm/dd/yyyy) 1/11/2011
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Item	Description	Filename
1	Tractor, Truck #1	350100_truck_1_tractor_01_11_11.jpg
2	Trailer/Load, Truck #1	350100_truck_1_trailer_01_11_11.jpg
3	Kingpin Offset, Truck #1	
4	Suspension A, Truck #1	350100_truck_1_suspension_1_01_11_11.jpg
5	Suspension B, Truck #1	350100_truck_1_suspension_2_01_11_11.jpg
6	Suspension C, Truck #1	350100_truck_1_suspension_3_01_11_11.jpg
7	Suspension D, Truck #1	350100_truck_1_suspension_4_01_11_11.jpg
8	Suspension E, Truck #1	350100_truck_1_suspension_5_01_11_11.jpg
9	Suspension F, Truck #1	
10	Tractor, Truck #2	350100_truck_2_tractor_01_11_11.jpg
11	Trailer/Load, Truck #2	350100_truck_2_trailer_01_11_11.jpg
12	Kingpin Offset, Truck #2	350100_truck_2_suspension_1_01_11_11.jpg
13	Suspension A, Truck #2	350100_truck_2_suspension_2_01_11_11.jpg
14	Suspension B, Truck #2	350100_truck_2_suspension_3_01_11_11.jpg
15	Suspension C, Truck #2	350100_truck_2_suspension_4_01_11_11.jpg
16	Suspension D, Truck #2	350100_truck_2_suspension_5_01_11_11.jpg
17	Suspension E, Truck #2	
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		

RECORDED BY: _____ Dean J Wolf