

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[_____]
	*STATE CODE	[<u>37</u>]
	*SHRP SECTION ID	[<u>1814</u>]

HIGHWAY RT. NO. (THIS COUNT) US 23

MILEPOST NO. OR LOCATION (THIS COUNT) 13.67

FILE NAME C371814.H0D DISK ID _____

BEGINNING DATE 6/10/03 BEGINNING TIME 0000

ENDING DATE 6/29/03 ENDING TIME 2400

COUNT DURATION 20 [] HOURS [☒] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA ☒ OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME _____ NO. OF BINS: _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE _____ PERMANENT X

EQUIPMENT MAKE/MODEL# Peek ADR-3000

SENSOR TYPE Bare flat piezo.

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: _____

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS) _____

COMMENTS: _____

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER	<u>Michael H. Ashbrook</u>	PHONE: <u>919-733-4796</u>
DATE PREPARED	<u>10/9/03</u>	Revised November 11, 1999

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[]
	*STATE CODE	[37]
	*SHRP SECTION ID	[1814]

HIGHWAY RT. NO. (THIS COUNT) US 23

MILEPOST NO. OR LOCATION (THIS COUNT) 13.67

FILE NAME C371814.I1D DISK ID _____

BEGINNING DATE 7/1/03 BEGINNING TIME 0000

ENDING DATE 9/30/03 ENDING TIME 2400

COUNT DURATION 92 [] HOURS [X] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA X OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME _____ NO. OF BINS: _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE _____ PERMANENT X

EQUIPMENT MAKE/MODEL# Peek ADR-3000

SENSOR TYPE Bare flat piezo.

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: _____

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS) _____

COMMENTS: _____

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER	<u>Michael H. Ashbrook</u>	PHONE: <u>919-733-4796</u>
DATE PREPARED	<u>1/23/04</u>	Revised November 11, 1999

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[]
	*STATE CODE	[<u>37</u>]
	*SHRP SECTION ID	[<u>1814</u>]

HIGHWAY RT. NO. (THIS COUNT) US 23

MILEPOST NO. OR LOCATION (THIS COUNT) 13.67

FILE NAME C371814.L1D DISK ID _____

BEGINNING DATE 10/1/03 BEGINNING TIME 0000

ENDING DATE 10/25/03 ENDING TIME 2400

COUNT DURATION 25 [] HOURS [☒] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA ☒ OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME _____ NO. OF BINS: _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE _____ PERMANENT ☒

EQUIPMENT MAKE/MODEL# Peek ADR-3000

SENSOR TYPE Bare flat piezo.

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: _____

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS) _____

COMMENTS: _____

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER	<u>Michael H. Ashbrook</u>	PHONE: <u>919-733-4796</u>
DATE PREPARED	<u>2/18/04</u>	Revised November 11, 1999

SHEET 12 LTPP TRAFFIC DATA CLASSIFICATION DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[]
	*STATE CODE	[<u>37</u>]
	*SHRP SECTION ID	[<u>1814</u>]

HIGHWAY RT. NO. (THIS COUNT) US 23

MILEPOST NO. OR LOCATION (THIS COUNT) 13.67

FILE NAME C371814.LQD DISK ID _____

BEGINNING DATE 10/27/03 BEGINNING TIME 0000

ENDING DATE 12/31/03 ENDING TIME 2400

COUNT DURATION 66 [] HOURS [☒] DAYS [] MONTHS

VEHICLE CLASSIFICATION METHOD: FHWA ☒ OTHER _____

NAME OF AGENCY CLASSIFICATION SCHEME _____ NO. OF BINS: _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 BIN SYSTEM.

TYPE OF AVC EQUIPMENT: PORTABLE _____ PERMANENT ☒

EQUIPMENT MAKE/MODEL# Peek ADR-3000

SENSOR TYPE Bare flat piezo.

ADJUSTMENT FACTORS FOR ESTIMATING AVERAGE ANNUAL VOLUMES BY CLASSIFICATION:

GENERAL FACTORS: _____

CLASS SPECIFIC FACTORS (PROVIDE BY CLASS OF CLASS GROUPS) _____

COMMENTS: _____

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER	<u>Michael H. Ashbrook</u>	PHONE: <u>919-733-4796</u>
DATE PREPARED	<u>2/18/04</u>	Revised November 11, 1999

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[_____]
	*STATE CODE	[<u>37</u>]
	*SHRP SECTION ID	[<u>1814</u>]

HIGHWAY RT. NO. (THIS SESSION) US 23

MILEPOST NO. OR LOCATION (THIS SESSION) 13.67

FILE NAME W371814.HED DISK ID _____

BEGINNING DATE 6/15/03 BEGINNING TIME 0000

ENDING DATE 6/21/03 ENDING TIME 2400

COUNT DURATION 7 [] HOURS [X] DAYS [] MONTHS

WEIGHT SCALE TYPE: PORT. WIM _____ PERM. WIM X OTHER _____

EQUIPMENT MAKE/MODEL# Peek ADR-3000

SENSOR TYPE Bare flat piezo

VEHICLE CLASSIFICATION METHOD:

7 card FHWA 13 bin in cols. 18-19 _____ 7-card FHWA 13 bin in cols. 22-23 _____

7 card 6 digit Truck Weight study _____ W-card X OTHER 7-card FHWA 13 bin cols. 20-21

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 CLASS SYSTEM.

METHOD OF CALIBRATION AND FREQUENCY: Self calibration factor adjusted hourly on predominate vehicle class at the site.

COMMENTS Automatic calibration capabilities

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER	<u>Michael H. Ashbrook</u>	PHONE: <u>919-733-4796</u>
DATE PREPARED	<u>10/9/03</u>	Revised February 21, 2000

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	*STATE ASSIGNED ID	[_____]
	*STATE CODE	[37]
	*SHRP SECTION ID	[1814]

HIGHWAY RT. NO. (THIS SESSION) US 23

MILEPOST NO. OR LOCATION (THIS SESSION) 13.67

FILE NAME W371814.IJD DISK ID _____

BEGINNING DATE 7/1/03 BEGINNING TIME 0000

ENDING DATE 7/26/03 ENDING TIME 2400

COUNT DURATION 7 [] HOURS [X] DAYS [] MONTHS

WEIGHT SCALE TYPE: PORT. WIM _____ PERM. WIM X OTHER _____

EQUIPMENT MAKE/MODEL# Peek ADR-3000

SENSOR TYPE Bare flat piezo

VEHICLE CLASSIFICATION METHOD:

7 card FHWA 13 bin in cols. 18-19 _____ 7-card FHWA 13 bin in cols. 22-23 _____

7 card 6 digit Truck Weight study _____ W-card X OTHER 7-card FHWA 13 bin cols. 20-21

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 CLASS SYSTEM.

METHOD OF CALIBRATION AND FREQUENCY: Self calibration factor adjusted hourly on predominate vehicle class at the site.

COMMENTS Automatic calibration capabilities

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER	<u>Michael H. Ashbrook</u>	PHONE: <u>919-733-4796</u>
DATE PREPARED	<u>1/23/04</u>	Revised February 21, 2000

SHEET 13 LTPP TRAFFIC DATA VEHICLE WEIGHT DATA TRANSMITTAL FORM	STATE ASSIGNED ID	[]
	*STATE CODE	[37]
	*SHRP SECTION ID	[1814]

HIGHWAY RT. NO. (THIS SESSION) US 23

MILEPOST NO. OR LOCATION (THIS SESSION) 13.67

FILE NAME W371814.M1D DISK ID _____

BEGINNING DATE 11/1/03 BEGINNING TIME 0000

ENDING DATE 11/7/03 ENDING TIME 2400

COUNT DURATION 7 [] HOURS [X] DAYS [] MONTHS

WEIGHT SCALE TYPE: PORT. WIM _____ PERM. WIM X OTHER _____

EQUIPMENT MAKE/MODEL# Peek ADR-3000

SENSOR TYPE Bare flat piezo

VEHICLE CLASSIFICATION METHOD:

7 card FHWA 13 bin in cols. 18-19 _____ 7-card FHWA 13 bin in cols. 22-23 _____

7 card 6 digit Truck Weight study _____ W-card X OTHER 7-card FHWA 13 bin cols. 20-21

NAME OF AGENCY CLASSIFICATION SCHEME: _____ NO. OF BINS _____

NOTE: IF NOT PREVIOUSLY PROVIDED TO SHRP/LTPP, PLEASE ATTACH SHEET 6 DESCRIBING THE VEHICLE CLASSIFICATION CATEGORIES AND ALSO ATTACH SHEET 7 DESCRIBING HOW THE AGENCY WOULD CONVERT ITS CLASSIFICATION SCHEME TO THE FHWA 13 CLASS SYSTEM.

METHOD OF CALIBRATION AND FREQUENCY: Self calibration factor adjusted hourly on predominate vehicle class at the site.

COMMENTS Automatic calibration capabilities

FILL OUT ONE TRANSMITTAL SHEET FOR EACH DATA FILE SUBMITTED.

NAME OF PREPARER	<u>Michael H. Ashbrook</u>	PHONE: <u>919-733-4796</u>
DATE PREPARED	<u>2/18/04</u>	Revised February 21, 2000

SHEET 14 LTPP TRAFFIC DATA EQUIPMENT INSTALLATION LOG	*STATE ASSIGNED ID []	LOCATION <u>US 23-441, .2 Mi. S. of SR 1504</u>
	*STATE CODE [<u>37</u>]	INSTALLATION DATE <u>6/26/03</u>
	*SHRP SECTION ID [<u>1814</u>]	

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment			
Control Unit			
Interface			
Modem			
Loop Amplifiers			
Other _____			
Sensor(s) / Platform(s)			
LTPP Lane Sensor	BARE FLAT PIEZO	MSI	
Sensor Next Adjacent Lane (1)	BARE FLAT PIEZO	MSI	
Sensor Next Adjacent Lane (2)			
Sensor Next Adjacent Lane (3)			
Diagonal Sensor			
Offscale Sensor			
Right Platform			
Left Platform			
Other _____			
Software			
Complete Package			
Axle Spacing Algorithm Only			
Other _____			
Loops			
Upstream - Lane I	6'x6' 4 TURN INDUCTIVE LOOP		
Downstream - Lane I	6'x6' 4 TURN INDUCTIVE LOOP		
Upstream - Other Lanes			
Downstream - Other Lanes			

revised November
11, 1999)



SHEET 14 LTPP TRAFFIC DATA EQUIPMENT INSTALLATION LOG	*STATE ASSIGNED ID []	LOCATION <u>140 west at MM 54</u>
	*STATE CODE [<u>37</u>]	INSTALLATION DATE <u>6/16/03</u>
	*SHRP SECTION ID [<u>1814</u>]	

	TYPE	BRAND NAME	SERIAL NUMBER
Control Unit(s) and peripheral equipment			
Control Unit			
Interface			
Modem			
Loop Amplifiers			
Other _____			
Sensor(s) / Platform(s)			
LTPP Lane Sensor			
Sensor Next Adjacent Lane (1)	BARE FLAT PIEZO	MSI	
Sensor Next Adjacent Lane (2)			
Sensor Next Adjacent Lane (3)			
Diagonal Sensor			
Offscale Sensor			
Right Platform			
Left Platform			
Other _____			
Software			
Complete Package			
Axle Spacing Algorithm Only			
Other _____			
Loops			
Upstream - Lane I			
Downstream - Lane I			
Upstream - Other Lanes			
Downstream - Other Lanes			

revised November
11, 1999)

<div>SHEET 16</div> <div>LTPP MONITORED TRAFFIC DATA</div> <div>SITE CALIBRATION SUMMARY</div>	<div>*STATE ASSIGNED ID</div> <div>*STATE CODE</div> <div>*SHRP SECTION ID</div>	<div>[]</div> <div>[37]</div> <div>[1814]</div>
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SITE CALIBRATION INFORMATION

1. *DATE OF CALIBRATION (MONTH/DAY/YEAR) [6 / 9 / 03]
2. *TYPE OF EQUIPMENT CALIBRATED _____ WIM _____ CLASSIFIER X BOTH
3. *REASON FOR CALIBRATION
____ REGULARLY SCHEDULED SITE VISIT _____ RESEARCH
____ EQUIPMENT REPLACEMENT _____ TRAINING
____ DATA TRIGGERED SYSTEM REVISION X NEW EQUIPMENT INSTALLATION
4. *SENSORS INSTALLED IN LTPP LANE AT THIS SITE (CHECK ALL THAT APPLY):
____ BARE ROUND PIEZO CERAMIC X BARE FLAT PIEZO _____ BENDING PLATES
____ CHANNELIZED ROUND PIEZO _____ LOAD CELLS _____ QUARTZ PIEZO
____ CHANNELIZED FLAT PIEZO X INDUCTANCE LOOPS _____ CAPACITANCE PADS
____ OTHER (SPECIFY) _____
5. EQUIPMENT MANUFACTURER PEEK Traffic

WIM SYSTEM CALIBRATION SPECIFICS**

- 6.** CALIBRATION TECHNIQUE USED:
____ TRAFFIC STREAM _____ STATIC SCALE (Y/N) X TEST TRUCKS
____ NUMBER OF TRUCKS COMPARED _____ NUMBER OF TEST TRUCKS USED

TYPE PER FHWA 13 BIN SYSTEM
SUSPENSION: 1 – AIR; 2 – LEAF SPRING
3 – OTHER (DESCRIBE)

10

TRUCK

1

2

3

PASSES PER TRUCK

TYPE

SUSPENSION

9

1

1
7. SUMMARY CALIBRATION RESULTS (EXPRESSED AS A PERCENT)
MEAN DIFFERENCE BETWEEN - -
DYNAMIC AND STATIC GVW 0 . 24 STANDARD DEVIATION 3 . 6
DYNAMIC AND STATIC SINGLE AXLES 3 . 13 STANDARD DEVIATION 5 . 5
DYNAMIC AND STATIC DOUBLE AXLES 0 . 81 STANDARD DEVIATION 4 . 28
8. 1 NUMBER OF SPEEDS AT WHICH CALIBRATION WAS PERFORMED
9. DEFINE THE SPEED RANGES USED (MPH) 55
10. CALIBRATION FACTOR (AT EXPECTED FREE FLOW SPEED) 1 . 000
- 11.** IS AUTO-CALIBRATION USED AT THIS SITE? (Y/N) Y
IF YES, LIST AND DEFINE AUTO-CALIBRATION VALUE: class 2 axle 1 at 2100 lbs

CLASSIFIER TEST SPECIFICS***

- 12.*** METHOD FOR COLLECTING INDEPENDENT VOLUME MEASUREMENT BY VEHICLE CLASS:
____ VIDEO X MANUAL _____ PARRALLEL CLASSIFIERS
13. METHOD TO DETERMINE LENGTH OF COUNT X TIME _____ NUMBER OF TRUCKS
14. MEAN DIFFERENCE IN VOLUMES BY VEHICLES CLASSIFICATION:
*** FHWA CLASS 9 0.1 % FHWA CLASS _____
*** FHWA CLASS 8 0.5 % FHWA CLASS _____
FHWA CLASS _____
FHWA CLASS _____
*** PERCENT UNCLASSIFIED VEHICLES: 1 . 0

PERSON LEADING CALIBRATION EFFORT	<u> Michael H. Ashbrook </u>
CONTACT INFORMATION	<u> 828-837-9922 </u> rev. November 9, 1999