

SHEET 1 LTPP TRAFFIC DATA SUMMARY TRANSMITTAL FORM	*STATE ASSIGNED ID [<u>116</u>] *STATE CODE [<u>19</u>] *SHRP SECTION ID [<u>1044</u>]
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STATE OR PROVINCE IOWA COUNTY Buchanan
 HIGHWAY ROUTE NO. USH 20 MILEPOST# MP 266
 NEAREST CITY/TOWN Manchester NEAREST INTERSECTION 10 miles west of Manchester
 FUNCTIONAL CLASS 02 NO. LANES EACH DIRECTION 2 TOTAL NO. LANES 4
 DIRECTION OF TRAVEL GPS LANE EAST DATE OPENED TO TRAF. - - - *
 FIPS COUNTY CODE 019 FHWA STATION IDENTIFICATION NO. _____
 HPMS SAMPLE NO. _____ HPMS SUBDIVISION NO. _____
 TYPE OF PAVEMENT: AC X PCC _____ OTHER _____
 CONTROL OF ACCESS: YES X NO _____ MEDIAN: YES X NO _____
 CURRENT SURROUNDING DEVELOPMENT:
 URBAN _____ SUBURBAN _____ RURAL X
 HAS INTENSITY OF ROADSIDE DEVELOPMENT INCREASED OVER PAST 10 YEARS?
 YES _____ NO X
 IF YES, DESCRIBE CHANGES _____

NOTE: ATTACH ALL RELATED FORMS AND COUNT DATA AND SUBMIT TO THE
 SHRP REGIONAL OFFICE. ATTACH MAP INDICATING THE LOCATION OF
 EACH TRAFFIC COUNT, VEHICLE CLASSIFICATION COUNT, OR WEIGHT
 STATION RELATIVE TO THIS GPS TEST SECTION.

* OPENED TO TRAFFIC IN FALL OF 1979
 BUT WAS BUILT IN 1971.

NAME OF PREPARER <u>EARL SCHEUERMANN</u> DATE PREPARED <u>12-12-91</u>	PHONE # <u>515-239-1153</u>
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SHEET 2 LTPP TRAFFIC DATA TRAFFIC VOLUMES AND LOAD ESTIMATES	*STATE ASSIGNED ID [0246] *STATE CODE [19] *SHRP SECTION ID [1044]
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YEAR	1. ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	2. ESTIMATED TOTAL TRUCK AADT (TWO-WAY)	3. ESTIMATED TOTAL VEHICLES AADT GPS LANE	4. ESTIMATED TOTAL TRUCKS AADT GPS LANE	5. ESTIMATED ESAL'S/YR GPS LANE (1000's)
1989	3330	568	1402	261	117
1988	1999	555	1013	278	105 *
1987	2094	581	1061	291	110 *
1986	1999	555	1013	278	105 *
1985	1923	534 N.A.	974	N.A. 267	101
1984	2054	570	893	245	106 *
1983	1880	522	817	224	97 *
1982	1861	517	809	222	96 *
1981	1919	533	834	229	99
1980	1977	549	859	236	102 *
1979	2092	486	766	265	115 N.A.
1978	0				
1977	0				
1976	0				
1975	0				
1974	0				
1973	0				
1972	0				
1971	0				
1970					
1969					
1968					
1967					
1966					
1965					

Red figures estimated from 1984 data

Red figures estimated from 1981 data 6-8-92

Blue estimated from 1981 6-8-92

Red figures for years 1982, 1983, 1984, 1986, 1987 & 1989 estimated based on previous years data 6-8-92

NAME OF PREPARER	EARL SCHEUERMANN	PHONE #	515-239-1153
DATE PREPARED	12-12-91		

<p>SHEET 2</p> <p>LTPP TRAFFIC DATA</p> <p>TRAFFIC VOLUMES AND LOAD ESTIMATES</p>	<p>*STATE ASSIGNED ID [0046]</p> <p>*STATE CODE [19]</p> <p>*SHRP SECTION ID [1044]</p>
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YEAR	1. ESTIMATED TOTAL VEHICLES AADT (TWO-WAY)	2. ESTIMATED TOTAL TRUCK AADT (TWO-WAY)	3. ESTIMATED TOTAL VEHICLES AADT GPS LANE	4. ESTIMATED TOTAL TRUCKS AADT GPS LANE	5. ESTIMATED ESAL'S / YR GPS LANE (1000's)
1989	3330	568	1402	261	117
1988					105*
1987					110*
1986					105*
1985	1923	N.A.	974	N.A.	101
1984					106*
1983					97*
1982					96*
1981	1919	533	834	229	99
1980					102*
1979	2092	486	766	265	N.A.
1978	0				
1977	0				
1976	0				
1975	0				
1974	0				
1973	0				
1972	0				
1971	0				
1970					
1969					
1968					
1967					
1966					
1965					

NAME OF PREPARER <u>EARL SCHEUERMANN</u>	PHONE # <u>515-239-1153</u>
DATE PREPARED <u>12-12-91</u>	

SHEET 3

LTPP TRAFFIC DATA PROCEDURES FOR ESTIMATING ANNUAL AVERAGE VOLUMES AND TOTAL ANNUAL ESALS

*STATE ASSIGNED ID [0016]

*STATE CODE [19]

*SHRP SECTION ID [1044]

1. Year Applicable 1979

2. METHOD FOR ESTIMATING AADT

- ☒ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Averaged and factored multiple counts taken this year at the GPS site.
- ☐ Growth factored last year's estimate.
- ☐ Estimated based on volume counts at nearby locations.
- ☐ Used flow maps.
- ☐ Used computerized network analyses.
- ☐ Other: _____

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☒ Used a single count taken this year at the GPS site.
- ☐ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Used system averages from counts taken this year.
- ☐ Used count data from nearby sites.
- ☐ Used count data taken in earlier years at the GPS site.
- ☐ Used system averages taken in earlier years at the GPS site.
- ☐ Used computerized network analyses.
- ☐ Other: _____

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☒ Based on actual lane count data.
- ☒ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☐ Based on actual lane count data.
- ☒ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class. (no. of classes) 11
- ☐ Other: _____

7. ESAL ESTIMATES

(A) Source of Data

- ☐ Weight data collected at GPS site this year.
- ☐ Weight data collected at GPS site prior years.
- ☐ Weight data from system averages this year.
- ☐ Weight data from system averages prior years.
- ☐ Weight data from historic W-4 Tables used.
- ☒ Other: WEIGHT DATA FROM SYSTEM
3 YEAR AVERAGES

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: STATIC SCALE USED FOR
ENFORCEMENT AND
PORTABLE SCALES

NAME OF PREPARER EARL SCHEYERMAN PHONE # 515-239-1153

DATE PREPARED 12-19-79

SHEET 3

LTPP TRAFFIC DATA PROCEDURES FOR ESTIMATING ANNUAL AVERAGE VOLUMES AND TOTAL ANNUAL ESALS

*STATE ASSIGNED ID [0546]

*STATE CODE [19]

*SHRP SECTION ID [1044]

1. Year Applicable 1981

2. METHOD FOR ESTIMATING AADT

- ☒ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Averaged and factored multiple counts taken this year at the GPS site.
- ☐ Growth factored last year's estimate.
- ☐ Estimated based on volume counts at nearby locations.
- ☐ Used flow maps.
- ☐ Used computerized network analyses.
- ☐ Other: _____

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☒ Used a single count taken this year at the GPS site.
- ☐ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Used system averages from counts taken this year.
- ☐ Used count data from nearby sites.
- ☐ Used count data taken in earlier years at the GPS site.
- ☐ Used system averages taken in earlier years at the GPS site.
- ☐ Used computerized network analyses.
- ☐ Other: _____

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☐ Based on actual lane count data.
- ☒ System distribution factors.
- ☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☐ Based on actual lane count data.
- ☒ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class. (no. of classes) 11
- ☐ Other: _____

7. ESAL ESTIMATES

(A) Source of Data

- ☐ Weight data collected at GPS site this year.
- ☐ Weight data collected at GPS site prior years.
- ☐ Weight data from system averages this year.
- ☐ Weight data from system averages prior years.
- ☐ Weight data from historic W-4 Tables used.
- ☒ Other: WEIGHT DATA FROM SYSTEM
3 YEAR AVERAGES

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: STATIC SCALE USED FOR
ENFORCEMENT AND PORTABLE
SCALES

NAME OF PREPARER EARL SCHEYERMAN PHONE # 515-239-1153

DATE PREPARED 12-12-91

SHEET 3

LTPP TRAFFIC DATA PROCEDURES FOR ESTIMATING ANNUAL AVERAGE VOLUMES AND TOTAL ANNUAL ESALS

*STATE ASSIGNED ID [0076]

*STATE CODE [19]

*SHRP SECTION ID [1044]

1. Year Applicable 1985

2. METHOD FOR ESTIMATING AADT

- ☒ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Averaged and factored multiple counts taken this year at the GPS site.
- ☐ Growth factored last year's estimate.
- ☐ Estimated based on volume counts at nearby locations.
- ☐ Used flow maps.
- ☐ Used computerized network analyses.
- ☐ Other: _____

* 5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☐ Based on actual lane count data.
- ☐ System distribution factors.
- ☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
- ☒ ESAL/Vehicle class. (no. of classes) 11
- ☐ Other: _____

* 3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☐ Used a single count taken this year at the GPS site.
- ☐ Factored a single count taken this year at the GPS site.
- ☐ Averaged multiple counts taken this year at the GPS site.
- ☐ Used system averages from counts taken this year.
- ☐ Used count data from nearby sites.
- ☐ Used count data taken in earlier years at the GPS site.
- ☐ Used system averages taken in earlier years at the GPS site.
- ☐ Used computerized network analyses.
- ☐ Other: _____

7. ESAL ESTIMATES

(A) Source of Data

- ☐ Weight data collected at GPS site this year.
- ☐ Weight data collected at GPS site prior years.
- ☐ Weight data from system averages this year.
- ☐ Weight data from system averages prior years.
- ☐ Weight data from historic W-4 Tables used.
- ☒ Other: WEIGHT DATA FROM SYSTEM 3 YEAR AVERAGES

(B) Weight Scale Type

- ☐ WIM scale.
- ☐ Static scale used for enforcement.
- ☐ Static scale not used for enforcement.
- ☒ Other: STATIC SCALE USED FOR ENFORCEMENT AND PORTABLE SCALES

* NOT APPLICABLE

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☐ Based on actual lane count data.
- ☒ System distribution factors.
- ☐ Other: _____

NAME OF PREPARER EARL SCHEYERMAN PHONE # 515-239-1153

DATE PREPARED 12-12-91

SHEET 3

LTPP TRAFFIC DATA PROCEDURES FOR ESTIMATING ANNUAL AVERAGE VOLUMES AND TOTAL ANNUAL ESALS

*STATE ASSIGNED ID [2216]

*STATE CODE [19]

*SHRP SECTION ID [1044]

1. Year Applicable 1989

2. METHOD FOR ESTIMATING AADT

- ☐ Factored a single count taken this year at the GPS site.
☐ Averaged multiple counts taken this year at the GPS site.
☐ Averaged and factored multiple counts taken this year at the GPS site.
☐ Growth factored last year's estimate.
☐ Estimated based on volume counts at nearby locations.
☐ Used flow maps.
☐ Used computerized network analyses.
☒ Other: SMOOTHED TRAFFIC FROM RAMP COUNTS AND SOME MAINLINE COUNTS.

3. METHOD FOR ESTIMATING TRUCK VOLUMES OR PERCENTAGES

- ☐ Used a single count taken this year at the GPS site.
☐ Factored a single count taken this year at the GPS site.
☐ Averaged multiple counts taken this year at the GPS site.
☐ Used system averages from counts taken this year.
☐ Used count data from nearby sites.
☐ Used count data taken in earlier years at the GPS site.
☐ Used system averages taken in earlier years at the GPS site.
☐ Used computerized network analyses.
☒ Other: SAME AS FOR AADT

4. METHOD FOR ESTIMATING AADT BY GPS LANE

- ☐ Based on actual lane count data.
☒ System distribution factors.
☐ Other: _____

5. METHOD FOR ESTIMATING TRUCK AADT IN GPS LANES

- ☐ Based on actual lane count data.
☒ System distribution factors.
☐ Other: _____

6. METHOD FOR ESTIMATING ESAL/VEHICLE

- ☐ ESAL/Truck.
☒ ESAL/Vehicle class. (no. of classes) 11
☐ Other: _____

7. ESAL ESTIMATES

(A) Source of Data

- ☐ Weight data collected at GPS site this year.
☐ Weight data collected at GPS site prior years.
☐ Weight data from system averages this year.
☐ Weight data from system averages prior years.
☐ Weight data from historic W-4 Tables used.
☒ Other: WEIGHT DATA FROM SYSTEM THREE YEAR AVERAGES.

(B) Weight Scale Type

- ☐ WIM scale.
☐ Static scale used for enforcement.
☐ Static scale not used for enforcement.
☒ Other: STATIC SCALE USED FOR ENFORCEMENT AND PORTABLE SCALES

NAME OF PREPARER EARL SCHEUERMANN PHONE # 515-239-1153
DATE PREPARED 12-12-91

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [0046]
	*STATE CODE [19]
	*SHRP SECTION ID [1044]

HIGHWAY ROUTE NO. (THIS COUNT) US A 520.

MILEPOST# OR LOCATION (THIS COUNT) 266

BEGINNING DATE 08-06-79 ENDING DATE 08-06-79

BEGINNING TIME 8 AM - 12 NOON ^{AND} ENDING TIME 1 PM - 5 PM

COUNT DURATION 8 [X] HOURS [] DAYS [] MONTHS

TYPE OF COUNTER MANUAL NAME/MODEL # _____

TYPE OF COUNT: TWO-WAY X ONE DIRECTION ONLY _____ GPS TEST LANE ONLY _____

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)	<u>1240</u>	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>-----</u>	
B. AXLE CORRECTION FACTOR	<u>-----</u>	
C. DAY OF WEEK FACTOR	<u>-----</u>	
D. MONTH FACTOR	<u>-----</u>	
E. OTHER FACTOR (_____)	<u>1.689</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>2092</u>	
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>421</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>870</u>	
6. AADT GPS LANE	<u>766</u>	

Factor Adjusts
To 24 Hour
And For Down
And Month

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>EARL SCHEYERMAN</u>	PHONE # <u>515-239-1153</u>
DATE PREPARED <u>12-12-91</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [<u>2046</u>]
	*STATE CODE [<u>19</u>]
	*SHRP SECTION ID [<u>1044</u>]

HIGHWAY ROUTE NO. (THIS COUNT) US H 20
 MILEPOST# OR LOCATION (THIS COUNT) 266
 BEGINNING DATE 06-10-81 ENDING DATE 06-10-81
 BEGINNING TIME 7AM-11AM ^{AND} ENDING TIME 2PM-6PM
 COUNT DURATION 8 ☒ HOURS [] DAYS [] MONTHS
 TYPE OF COUNTER MANUAL NAME/MODEL # _____
 TYPE OF COUNT: TWO-WAY ☒ ONE DIRECTION ONLY _____ GPS TEST LANE ONLY _____

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)	<u>1029</u>	
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	<u>-----</u>	<i>Factor expanded to 24 hours & adjust for down 4 months</i>
B. AXLE CORRECTION FACTOR	<u>-----</u>	
C. DAY OF WEEK FACTOR	<u>-----</u>	
D. MONTH FACTOR	<u>-----</u>	
E. OTHER FACTOR (_____)	<u>1.865</u>	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	<u>1919</u>	
4. DIRECTIONAL DISTRIBUTION FACTOR	<u>.500</u>	
5. GPS LANE DISTRIBUTION FACTOR	<u>.870</u>	
6. AADT GPS LANE	<u>.834</u>	

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>EARL SCHEYERMAN</u>	PHONE # <u>515-239-1153</u>
DATE PREPARED <u>12-12-91</u>	

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID <u>0046</u> *STATE CODE <u>19</u> *SHRP SECTION ID <u>1044</u>
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 HIGHWAY ROUTE NO. (THIS COUNT) US H20

 MILEPOST# OR LOCATION (THIS COUNT) 266

 BEGINNING DATE 06-24-85 ENDING DATE 06-24-85

 BEGINNING TIME _____ ENDING TIME UNKNOWN

 COUNT DURATION _____ [] HOURS [] DAYS [] MONTHS Probably 8 Hrs

 TYPE OF COUNTER Manual NAME/MODEL # _____

 TYPE OF COUNT: TWO-WAY X ONE DIRECTION ONLY _____ GPS TEST LANE ONLY _____

<u>ITEM</u>	<u>ACTUAL COUNTS</u>	<u>UNITS</u>
1. TOTAL NO. OF VEHICLES (RAW COUNT)		<u>UNKNOWN</u>
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	_____	} <u>UNKNOWN</u>
B. AXLE CORRECTION FACTOR	_____	
C. DAY OF WEEK FACTOR	_____	
D. MONTH FACTOR	_____	
E. OTHER FACTOR (_____)	_____	
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)		<u>1923</u>
4. DIRECTIONAL DISTRIBUTION FACTOR		<u>.507</u>
5. GPS LANE DISTRIBUTION FACTOR		<u>.870</u>
6. AADT GPS LANE		<u>974</u>

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>EARL SCHEYERMAN</u> DATE PREPARED <u>12-12-91</u>	PHONE # <u>515-239-1153</u>
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Not Applicable For 1987

SHEET 4 LTPP TRAFFIC DATA TRAFFIC VOLUME COUNTS	*STATE ASSIGNED ID [2246] *STATE CODE [19] *SHRP SECTION ID [1044]
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HIGHWAY ROUTE NO. (THIS COUNT) _____

MILEPOST# OR LOCATION (THIS COUNT) _____

BEGINNING DATE _____ ENDING DATE _____

BEGINNING TIME _____ ENDING TIME _____

COUNT DURATION _____ [] HOURS [] DAYS [] MONTHS

TYPE OF COUNTER _____ NAME/MODEL # _____

TYPE OF COUNT: TWO-WAY___ ONE DIRECTION ONLY___ GPS TEST LANE ONLY___

ITEM	ACTUAL COUNTS	UNITS
1. TOTAL NO. OF VEHICLES (RAW COUNT)	_____	-----
2. ADJUSTMENT FACTORS (FILL IN AS APPLICABLE):		
A. ADJUSTMENT TO 24-HOUR COUNT	_____	-.----
B. AXLE CORRECTION FACTOR	_____	-.----
C. DAY OF WEEK FACTOR	_____	-.----
D. MONTH FACTOR	_____	-.----
E. OTHER FACTOR (_____)	_____	-.----
3. ANNUAL AVERAGE DAILY TRAFFIC (AADT) (TWO-WAY)	_____	-----
4. DIRECTIONAL DISTRIBUTION FACTOR	_____	-.----
5. GPS LANE DISTRIBUTION FACTOR	_____	-.----
6. AADT GPS LANE	_____	-----

NOTE: COMPLETE ONE SHEET FOR EACH COUNTING SESSION.

NAME OF PREPARER <u>EAYL SCHEUERMANN</u>	PHONE # <u>515-239-1153</u>
DATE PREPARED <u>12-12-91</u>	

Not Applicable for 1757

SHEET 5 LTPP TRAFFIC DATA VEHICLE CLASSIFICATION DATA FHWA 13-CLASS SYSTEM	*STATE ASSIGNED ID [2046] *STATE CODE [19] *SHRP SECTION ID [1044]
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HIGHWAY RT. NO. (THIS COUNT) _____ MILEPOST# (THIS COUNT) _____

LOCATION (THIS COUNT) _____ FUNCTIONAL CLASS _____
 BEGINNING DATE _____ ENDING DATE _____
 BEGINNING TIME _____ ENDING TIME _____ DURATION (HRS) _____

TYPE OF COUNT: MANUAL _____ AUTOMATED _____ NO. OF LANES COUNTED _____

TYPE OF EQUIP.: AVC PERM. _____ AVC PORT. _____ WIM PERM. _____ WIM PORT. _____

EQUIPMENT NAME / MODEL # _____

TOTAL NO. OF VEHICLES CLASSIFIED _____ # TRUCKS _____ % TRUCKS _____

NO. OF TRUCKS IN GPS LANE _____ % OF TRUCKS IN GPS LANE _____

VEHICLE CLASSIFICATION METHOD: FHWA _____ OTHER _____ # BINS _____

NOTE: IF THIS COUNT DOES NOT USE THE FHWA 13-BIN CLASSIFICATION SYSTEM USE SHEET 6. PLEASE DESCRIBE ON AN ATTACHED PAGE THE VEHICLE CLASSIFICATION SYSTEM USED BY THE AGENCY AND COMPLETE SHEET 7 DESCRIBING HOW THE SHA WOULD EXPAND OR COLLAPSE THE USER CLASSIFICATION SYSTEM TO CORRESPOND WITH THE FHWA 13 CLASSES.

VEHICLE CLASSES	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
1. FHWA CLASSES 1-3 (Cars, Motorcycles, Vans)	_____	_____	_____
2. FHWA CLASS 4 (Buses)	_____	_____	_____
3. FHWA CLASS 5 (Two Axle, 6-Tire, SU Truck)	_____	_____	_____
4. FHWA CLASS 6 (3 AXLE SU TRUCK)	_____	_____	_____
5. FHWA CLASS 7 (4 or more Axle SU Truck)	_____	_____	_____
6. FHWA CLASS 8 (4 or less axle 1-Trlr.Truck)	_____	_____	_____
7. FHWA CLASS 9 (5 Axle, 1-Trlr.Truck)	_____	_____	_____
8. FHWA CLASS 10 (6 or more Axle, 1-Trlr.Truck)	_____	_____	_____
9. FHWA CLASS 11 (5 or less Axle, Multi-Trlr.Truck)	_____	_____	_____
10. FHWA CLASS 12 (6 Axle, Multi-Trlr.Truck)	_____	_____	_____
11. FHWA CLASS 13 (7 or more Axle, Multi-Trlr.Truck)	_____	_____	_____
12. OTHER VEHICLES	_____	_____	_____
GRAND TOTAL	_____	_____	_____

NAME OF PREPARER EARL SCHEUERMANN PHONE # 515-239-1153
 DATE PREPARED 12-12-91

<p>SHEET 5</p> <p>LTPP TRAFFIC DATA</p> <p>VEHICLE CLASSIFICATION DATA</p> <p>FHWA 13-CLASS SYSTEM</p>	<p>*STATE ASSIGNED ID [<u>0046</u>]</p> <p>*STATE CODE [<u>19</u>]</p> <p>*SHRP SECTION ID [<u>1044</u>]</p>
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HIGHWAY RT. NO. (THIS COUNT) US 4520 MILEPOST# (THIS COUNT) 2166

LOCATION (THIS COUNT) AT SITE FUNCTIONAL CLASS 02

BEGINNING DATE 08-06-79 ENDING DATE 08-06-79

BEGINNING TIME 2AM-12NOON ENDING TIME 1PM-5PM DURATION (HRS) 8

TYPE OF COUNT: MANUAL X AUTOMATED _____ NO. OF LANES COUNTED _____

TYPE OF EQUIP.: AVC PERM. _____ AVC PORT. _____ WIM PERM. _____ WIM PORT. _____

EQUIPMENT NAME / MODEL # _____

TOTAL NO. OF VEHICLES CLASSIFIED 1240 # TRUCKS 288 % TRUCKS 23.2

NO. OF TRUCKS IN GPS LANE 131 % OF TRUCKS IN GPS LANE 45.5

VEHICLE CLASSIFICATION METHOD: FHWA _____ OTHER X # BINS _____

NOTE: IF THIS COUNT DOES NOT USE THE FHWA 13-BIN CLASSIFICATION SYSTEM USE SHEET 6. PLEASE DESCRIBE ON AN ATTACHED PAGE THE VEHICLE CLASSIFICATION SYSTEM USED BY THE AGENCY AND COMPLETE SHEET 7 DESCRIBING HOW THE SHA WOULD EXPAND OR COLLAPSE THE USER CLASSIFICATION SYSTEM TO CORRESPOND WITH THE FHWA 13 CLASSES.

VEHICLE CLASSES	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
1. FHWA CLASSES 1-3 (Cars, Motorcycles, Vans)	_____	_____	_____
2. FHWA CLASS 4 (Buses)	_____	_____	_____
3. FHWA CLASS 5 (Two Axle, 6-Tire, SU Truck)	_____	_____	_____
4. FHWA CLASS 6 (3 AXLE SU TRUCK)	_____	_____	_____
5. FHWA CLASS 7 (4 or more Axle SU Truck)	_____	_____	_____
6. FHWA CLASS 8 (4 or less axle 1-Trlr.Truck)	_____	_____	_____
7. FHWA CLASS 9 (5 Axle, 1-Trlr.Truck)	_____	_____	_____
8. FHWA CLASS 10 (6 or more Axle, 1-Trlr.Truck)	_____	_____	_____
9. FHWA CLASS 11 (5 or less Axle, Multi-Trlr.Truck)	_____	_____	_____
10. FHWA CLASS 12 (6 Axle, Multi-Trlr.Truck)	_____	_____	_____
11. FHWA CLASS 13 (7 or more Axle, Multi-Trlr.Truck)	_____	_____	_____
12. OTHER VEHICLES	_____	_____	_____
GRAND TOTAL	_____	_____	_____

NAME OF PREPARER EARL SCHEUERMAN PHONE # 515-239-1153

DATE PREPARED 12-12-91

NAME OF PREPARER EARL SCHEYERMAN PHONE # 515-239-1153
DATE PREPARED 12-12-91

<p>SHEET 5</p> <p>LTPP TRAFFIC DATA</p> <p>VEHICLE CLASSIFICATION DATA</p> <p>FHWA 13-CLASS SYSTEM</p>	<p>*STATE ASSIGNED ID [<u>0046</u>]</p> <p>*STATE CODE [<u>19</u>]</p> <p>*SHRP SECTION ID [<u>1044</u>]</p>
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HIGHWAY RT. NO. (THIS COUNT) US H20 MILEPOST# (THIS COUNT) 266

LOCATION (THIS COUNT) AT SHRP SITE FUNCTIONAL CLASS 02

BEGINNING DATE 06-24-85 ENDING DATE 06-24-85

BEGINNING TIME UNK ENDING TIME UNK DURATION (HRS) PROBABLY 8 HRS

TYPE OF COUNT: MANUAL X AUTOMATED _____ NO. OF LANES COUNTED _____

TYPE OF EQUIP.: AVC PERM. _____ AVC PORT. _____ WIM PERM. _____ WIM PORT. _____

EQUIPMENT NAME / MODEL # _____

TOTAL NO. OF VEHICLES CLASSIFIED UNK # TRUCKS UNK % TRUCKS UNK

NO. OF TRUCKS IN GPS LANE UNK % OF TRUCKS IN GPS LANE UNK

VEHICLE CLASSIFICATION METHOD: FHWA _____ OTHER X # BINS _____

NOTE: IF THIS COUNT DOES NOT USE THE FHWA 13-BIN CLASSIFICATION SYSTEM USE SHEET 6. PLEASE DESCRIBE ON AN ATTACHED PAGE THE VEHICLE CLASSIFICATION SYSTEM USED BY THE AGENCY AND COMPLETE SHEET 7 DESCRIBING HOW THE SHA WOULD EXPAND OR COLLAPSE THE USER CLASSIFICATION SYSTEM TO CORRESPOND WITH THE FHWA 13 CLASSES.

VEHICLE CLASSES	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
1. FHWA CLASSES 1-3 (Cars, Motorcycles, Vans)	_____	_____	_____
2. FHWA CLASS 4 (Buses)	_____	_____	_____
3. FHWA CLASS 5 (Two Axle, 6-Tire, SU Truck)	_____	_____	_____
4. FHWA CLASS 6 (3 AXLE SU TRUCK)	_____	_____	_____
5. FHWA CLASS 7 (4 or more Axle SU Truck)	_____	_____	_____
6. FHWA CLASS 8 (4 or less axle 1-Trlr.Truck)	_____	_____	_____
7. FHWA CLASS 9 (5 Axle, 1-Trlr.Truck)	_____	_____	_____
8. FHWA CLASS 10 (6 or more Axle, 1-Trlr.Truck)	_____	_____	_____
9. FHWA CLASS 11 (5 or less Axle, Multi-Trlr.Truck)	_____	_____	_____
10. FHWA CLASS 12 (6 Axle, Multi-Trlr.Truck)	_____	_____	_____
11. FHWA CLASS 13 (7 or more Axle, Multi-Trlr.Truck)	_____	_____	_____
12. OTHER VEHICLES	_____	_____	_____
GRAND TOTAL	_____	_____	_____

NAME OF PREPARER EARL SCHEYERMAN PHONE # 515-239-1153

DATE PREPARED 12-12-91

SHEET 6

LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA
AGENCY DEFINED CLASSES

*STATE ASSIGNED ID [0046]

*STATE CODE [19]

*SHRP SECTION ID [1044]

FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS

HIGHWAY ROUTE NO. (THIS COUNT) US H 520 MILEPOST # (THIS COUNT) 266BEGINNING DATE 08-06-79 ENDING DATE 08-06-79BEGINNING TIME 8 AM - 12 NOON ENDING TIME 1 PM - 5 PM DURATION (HRS) 8

VEHICLE CLASSES (DESCRIBE VEHICLE TYPES IN EACH CLASS OR AXLE SPACING CATEGORY)	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
A. <u>PASSENGER CARS</u>	<u>2843</u>	<u>659</u>	<u>573</u>
<u>& PICKUPS</u>			
B. <u>SINGLE UNIT</u>	<u>137</u>	<u>62</u>	<u>54</u>
<u>TRUCKS</u>			
C. <u>TTSTs</u>	<u>350</u>	<u>159</u>	<u>138</u>
D.			
E.			
F.			
G.			
H.			
I.			
J.			
K.			
L.			
M.			
N.			
O.			
P.			
Q.			
R.			
S.			
T.			

GRAND TOTAL

3330 880 765NAME OF PREPARER EARL SCHEUERMAN PHONE # 515-239-1153DATE PREPARED 12-12-91

SHEET 6

LTPP TRAFFIC DATA

VEHICLE CLASSIFICATION DATA
AGENCY DEFINED CLASSES

*STATE ASSIGNED ID [0046]

*STATE CODE [19]

*SHRP SECTION ID [1044]

FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS

HIGHWAY ROUTE NO. (THIS COUNT) _____ MILEPOST # (THIS COUNT) _____

BEGINNING DATE _____ ENDING DATE _____
BEGINNING TIME _____ ENDING TIME _____ DURATION (HRS) _____

VEHICLE CLASSES (DESCRIBE VEHICLE TYPES IN EACH CLASS OR AXLE SPACING CATEGORY)	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
A. <u>PASSENGER CARS</u>	<u>1385</u>	<u>696</u>	<u>606</u>
<u>& PICKUPS</u>			
B. <u>SINGLE UNIT</u>	<u>131</u>	<u>67</u>	<u>58</u>
<u>TRUCKS</u>			
C. <u>TTSTs</u>	<u>403</u>	<u>196</u>	<u>171</u>
D. _____	_____	_____	_____
E. _____	_____	_____	_____
F. _____	_____	_____	_____
G. _____	_____	_____	_____
H. _____	_____	_____	_____
I. _____	_____	_____	_____
J. _____	_____	_____	_____
K. _____	_____	_____	_____
L. _____	_____	_____	_____
M. _____	_____	_____	_____
N. _____	_____	_____	_____
O. _____	_____	_____	_____
P. _____	_____	_____	_____
Q. _____	_____	_____	_____
R. _____	_____	_____	_____
S. _____	_____	_____	_____
T. _____	_____	_____	_____
GRAND TOTAL	<u>1919</u>	<u>959</u>	<u>835</u>

NAME OF PREPARER EARL SCHEUERMAN PHONE # 515-239-1153DATE PREPARED 12-12-91

<p>SHEET 6</p> <p>LTPP TRAFFIC DATA</p> <p>VEHICLE CLASSIFICATION DATA</p> <p>AGENCY DEFINED CLASSES</p>	<p>*STATE ASSIGNED ID [0046]</p> <p>*STATE CODE [19]</p> <p>*SHRP SECTION ID [1044]</p>
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FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS

HIGHWAY ROUTE NO. (THIS COUNT) _____ MILEPOST # (THIS COUNT) _____

BEGINNING DATE _____ ENDING DATE _____

BEGINNING TIME _____ ENDING TIME _____ DURATION (HRS) _____

VEHICLE CLASSES (DESCRIBE VEHICLE TYPES IN EACH CLASS OR AXLE SPACING CATEGORY)	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
A. <u>PASSENGER CARS</u>	<u>UNK</u>	<u>UNK</u>	<u>UNK</u>
<u>& PICKUPS</u>			
B. <u>SINGLE UNIT</u>	<u>UNK</u>	<u>UNK</u>	<u>UNK</u>
<u>TRUCKS</u>			
C. <u>TTSTs</u>	<u>UNK</u>	<u>UNK</u>	<u>UNK</u>
D. _____	_____	_____	_____
E. _____	_____	_____	_____
F. _____	_____	_____	_____
G. _____	_____	_____	_____
H. _____	_____	_____	_____
I. _____	_____	_____	_____
J. _____	_____	_____	_____
K. _____	_____	_____	_____
L. _____	_____	_____	_____
M. _____	_____	_____	_____
N. _____	_____	_____	_____
O. _____	_____	_____	_____
P. _____	_____	_____	_____
Q. _____	_____	_____	_____
R. _____	_____	_____	_____
S. _____	_____	_____	_____
T. _____	_____	_____	_____

GRAND TOTAL 1923 974 847

NAME OF PREPARER <u>EARL SCHEUERMANN</u>	PHONE # <u>515-239-1153</u>
DATE PREPARED <u>12-12-91</u>	

<p>SHEET 6</p> <p>LTPP TRAFFIC DATA</p> <p>VEHICLE CLASSIFICATION DATA</p> <p>AGENCY DEFINED CLASSES</p>	<p>*STATE ASSIGNED ID [<u>0046</u>]</p> <p>*STATE CODE [<u>19</u>]</p> <p>*SHRP SECTION ID [<u>1044</u>]</p>
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FOR 4-BIN OR OTHER CLASSIFICATION SYSTEMS *FROM SMOOTHED RAMP COUNTS*

HIGHWAY ROUTE NO. (THIS COUNT) _____ MILEPOST # (THIS COUNT) _____ *IN 1989*

BEGINNING DATE _____ ENDING DATE _____

BEGINNING TIME _____ ENDING TIME _____ DURATION (HRS) _____

VEHICLE CLASSES (DESCRIBE VEHICLE TYPES IN EACH CLASS OR AXLE SPACING CATEGORY)	TOTAL NUMBER OF VEHICLES TWO-WAY	TOTAL NUMBER OF VEHICLES GPS DIRECTION	TOTAL NUMBER OF VEHICLES GPS LANE
A. <u>PASSENGER CARS</u>	<u>2762</u>	<u>1311</u>	<u>1141</u>
<u>& PICKUPS</u>			
B. <u>SINGLE UNIT</u>	<u>105</u>	<u>58</u>	<u>50</u>
<u>TRUCKS</u>			
C. <u>TTSTs</u>	<u>463</u>	<u>242</u>	<u>211</u>
D. _____	_____	_____	_____
E. _____	_____	_____	_____
F. _____	_____	_____	_____
G. _____	_____	_____	_____
H. _____	_____	_____	_____
I. _____	_____	_____	_____
J. _____	_____	_____	_____
K. _____	_____	_____	_____
L. _____	_____	_____	_____
M. _____	_____	_____	_____
N. _____	_____	_____	_____
O. _____	_____	_____	_____
P. _____	_____	_____	_____
Q. _____	_____	_____	_____
R. _____	_____	_____	_____
S. _____	_____	_____	_____
T. _____	_____	_____	_____

GRAND TOTAL

3330 1611 1402

NAME OF PREPARER <u>EARL SCHEUERMANN</u>	PHONE # <u>515-239-1153</u>
DATE PREPARED <u>12-12-91</u>	

SHEET 7
LTPP TRAFFIC DATA
VEHICLE CLASSIFICATION
CONVERSION CHART

*STATE ASSIGNED ID [0176]

*STATE CODE [19]

*SHRP SECTION ID [1044]

FOR 4-BIN, 6-BIN, OR OTHER NON FHWA CLASSIFICATION SYSTEMS

USE THIS SHEET TO DESCRIBE HOW THE AGENCY'S CLASSIFICATION SYSTEM CAN BE CONVERTED TO THE FHWA 13-CLASSES. ENTER PERCENTAGE OF TOTAL SHA CLASS DISTRIBUTED TO EACH FHWA CLASS. APPLICABLE PERIOD FROM _____ TO _____

FHWA CLASSES													
SHA CLASS	1-3	4	5	6	7	8	9	10	11	12	13	OTHER	TOTAL
A	<u>100</u>												<u>100</u>
B		<u>10</u>	<u>61</u>	<u>25</u>	<u>4</u>								<u>100</u>
C						<u>16</u>	<u>78</u>	<u>03</u>	<u>1</u>	<u>1</u>	<u>1</u>		<u>100</u>
D													
E													
F													
G													
H													
I													
J													
K													
L													
M													
N													
O													
P													
Q													
R													
S													
T													
TOTAL	<u>100</u>	<u>10</u>	<u>61</u>	<u>25</u>	<u>4</u>	<u>16</u>	<u>78</u>	<u>3</u>	<u>1</u>	<u>1</u>	<u>1</u>		<u>300</u>

NAME OF PREPARER EARL SCHEHERMANN PHONE # 515-239-1153
DATE PREPARED 12-12-91

Not Applicable

SHEET 8 LTPP TRAFFIC DATA TRUCK WEIGHT SESSION INFORMATION	*STATE ASSIGNED ID [0000] *STATE CODE [19] *SHRP SECTION ID [1044]
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HIGHWAY RT. NO.(THIS SESSION) _____ MILEPOST # (THIS SESSION) _____

LOCATION (THIS SESSION) _____

FUNCTIONAL CLASSIFICATION _____ DIRECTION OF TRAVEL _____

1. FHWA STATION IDENTIFICATION NUMBER _____

2. TYPE OF WEIGHING EQUIPMENT: PERM. SCALE _____ PERM. WIM _____
PORT. SCALE _____ PORT. WIM _____

3. COUNT DURATION (HOURS) _____ COUNT LANE _____

4. BEGINNING TIME (MONTH, DAY, YEAR, TIME) ____-____-____-____

5. ENDING TIME (MONTH, DAY, YEAR, TIME) ____-____-____-____

6. EQUIPMENT MANUFACTURER / MODEL # _____

7. PURPOSE OF WEIGHT SESSION:
DATA COLLECTION _____ ENFORCEMENT _____

8. VEHICLE CLASSIFICATION SCHEME: FHWA _____ OTHER _____ # BINS _____

9. PAVEMENT TYPE: AC _____ PCC _____ OTHER _____

10. METHOD OF CALIBRATION AND FREQUENCY: _____

NOTE: IF THIS WEIGHT SESSION IS NOT BASED UPON THE FHWA 13-BIN CLASSIFICATION SYSTEM, USE SHEET 7 TO DESCRIBE HOW THE SHA WOULD EXPAND OR COLLAPSE THE AGENCY CLASSIFICATION SYSTEM TO CORRESPOND WITH THE FHWA 13 CLASSES. ALSO PROVIDE A DESCRIPTION OF THE CLASSIFICATION SCHEME THAT WAS USED.

NAME OF PREPARER <u>EARL SCHEUERMANN</u>	PHONE # <u>515-239-1153</u>
DATE PREPARED <u>12-12-91</u>	

Not Applicable

<p align="center">SHEET 9</p> <p align="center">LTPP TRAFFIC DATA</p> <p>TRUCK AXLE LOAD MEASUREMENTS BY VEHICLE CLASSIFICATION</p>	*STATE ASSIGNED ID [1234]
	*STATE CODE [17]
	*SHRP SECTION ID [1244]

FHWA CLASSIFICATION SCHEME: FHWA _____ OTHER _____ #BINS _____

NOTE: FOR CLASSIFICATION SCHEMES OTHER THAN FHWA, ATTACH SHEET 7 DESCRIBING CONVERSION FROM AGENCY CLASSIFICATION SCHEME TO FHWA 13 CLASSES.

1. VEHICLE CLASS _____

2. TOTAL NUMBER VEHICLES COUNTED _____

3. SINGLE AXLES LOAD RANGE	NUMBER OF SINGLE AXLES WEIGHED	4. TANDEM AXLES LOAD RANGE	NUMBER OF TANDEM AXLES WEIGHED	5. TRIPLE AXLES LOAD RANGE	NUMBER OF TRIPLE AXLES WEIGHED
< 3000	-----	< 6000	-----	< 12000	-----
3000 - 3999	-----	6000 - 7999	-----	12000 - 14999	-----
4000 - 4999	-----	8000 - 9999	-----	15000 - 17999	-----
5000 - 5999	-----	10000 - 11999	-----	18000 - 20999	-----
6000 - 6999	-----	12000 - 13999	-----	21000 - 23999	-----
7000 - 7999	-----	14000 - 15999	-----	24000 - 26999	-----
8000 - 8999	-----	16000 - 17999	-----	27000 - 29999	-----
9000 - 9999	-----	18000 - 19999	-----	30000 - 32999	-----
10000 - 10999	-----	20000 - 21999	-----	33000 - 35999	-----
11000 - 11999	-----	22000 - 23999	-----	36000 - 38999	-----
12000 - 12999	-----	24000 - 25999	-----	39000 - 41999	-----
13000 - 13999	-----	26000 - 27999	-----	42000 - 44999	-----
14000 - 14999	-----	28000 - 29999	-----	45000 - 47999	-----
15000 - 15999	-----	30000 - 31999	-----	48000 - 50999	-----
16000 - 16999	-----	32000 - 33999	-----	51000 - 53999	-----
17000 - 17999	-----	34000 - 35999	-----	54000 - 56999	-----
18000 - 18999	-----	36000 - 37999	-----	57000 - 59999	-----
19000 - 19999	-----	38000 - 39999	-----	60000 - 62999	-----
20000 - 20999	-----	40000 - 41999	-----	63000 - 65999	-----
21000 - 21999	-----	42000 - 43999	-----	66000 - 68999	-----
22000 - 22999	-----	44000 - 45999	-----	69000 - 71999	-----
23000 - 23999	-----	46000 - 47999	-----	72000 - 74999	-----
24000 - 24999	-----	48000 - 49999	-----	75000 - 77999	-----
25000 - 25999	-----	50000 - 51999	-----	78000 - 79999	-----
26000 - 26999	-----	52000 - 53999	-----	> 80000	-----
27000 - 27999	-----	54000 - 55999	-----		
28000 - 28999	-----	56000 - 57999	-----		
29000 - 29999	-----	58000 - 59999	-----		
> 30000	-----	> 60000	-----		

6. USE SECOND PAGE FOR FOUR AXLE GROUPS.

NAME OF PREPARER EARL SCHEUERMANN PHONE # 515-239-1153
DATE PREPARED 12-12-91