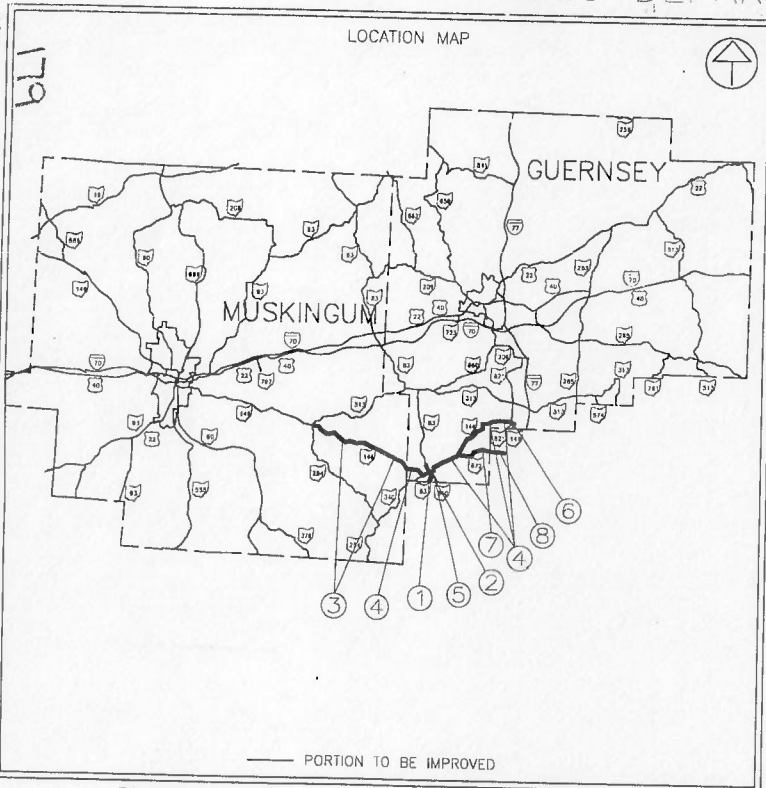


OHIO DEPARTMENT OF TRANSPORTATION

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

Plan No. **179 (95)**



ASPHALT CONCRETE RESURFACING PROJECT

PART	COUNTY	ROUTE	SECTIONS	PROJECT TERMINI		NET LENGTH MILES	CITY	VILLAGE
				BEGIN	END			
1	GUE	SR 83	(0.00)	0.00	0.54	0.54		
2	GUE	SR 83	(0.54 - 0.71)	0.54	1.13	0.59		CUMBERLAND
3	MUS	SR 146	(26.41 - 26.56)	26.41	34.49	8.06		
4	GUE	SR 146	(0.00)(2.83 - 9.79)(10.30)	0.00	10.62	9.07		
5	GUE	SR 146	(1.70 - 2.44)	1.70	2.83	1.13		CUMBERLAND
6	GUE	SR 146	(10.01 - 10.15)	10.01	10.30	0.29		PLEASANT CITY
7	GUE	SR 672	(0.00)	0.00	2.76	2.76		
8	NOB	SR 672	(0.00)	0.00	0.37	0.37		

INDEX OF SHEETS:

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CENTER LINE SUB-SUMMARY	10
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R.P.M. LOCATION SUB-SUMMARY	12-15
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RAILROAD CROSSING REMOVAL	17
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1993 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Transportation, including changes and supplemental specifications listed in the proposal shall govern this improvement.

I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety will be as set forth on plans and estimates.

Approved Cash Miel  
 Date 12-1-94 District Deputy Director of Transportation

Approved K.C. Swearingen  
 Date 1-23-95 Engineer of Maintenance

Approved Richard L. Engel  
 Date 12-5-94 Engineer of Bridges

Approved Alexander H. Hynds  
 Date 1-24-95 Deputy Director, Operations

Approved \_\_\_\_\_  
 Date \_\_\_\_\_

Approved \_\_\_\_\_  
 Date \_\_\_\_\_ Director, Department of Natural Resources

Approved Jerry Wray  
 Date 1-24-95 Director, Department of Transportation

DEPARTMENT OF TRANSPORTATION  
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_

DIVISION ADMINISTRATOR

DESIGN DESIGNATION	GUE-SR 83	MUS/GUE-SR 146
Current ADT (1995)	1124	1150
Design Year ADT (2005)	1408	1440
Design Hourly Volume (2005)	140	144
Trucks (24 Hour B&C)	13.7%	9.3%
Design Speed	55 MPH	55 MPH
Legal Speed	55 MPH	55 MPH
Functional Class	MAJOR COLLECTOR	MAJOR COLLECTOR

UNDERGROUND UTILITIES  
 TWO WORKING DAYS  
 CALL 1-800-362-2764 (TOLL FREE)  
 OHIO UTILITIES PROTECTION SERVICE  
 NON-MEMBERS  
 MUST BE CALLED DIRECTLY

STANDARD DRAWINGS		STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	2-21-92				
BP-4.1	2-21-92				
BP-5.1	2-21-92				
MT-97.10	4-29-88				
MT-97.11	10-4-89				
MT-99.10	11-14-86				
MT-99.20	4-29-88				
TC-71.10	9-10-91				

179(95)

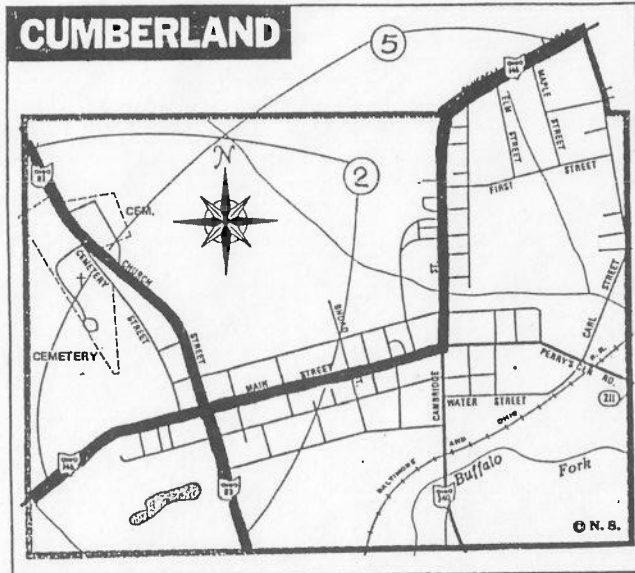
12-01-94 (WANT - C) GUE83T53

PLAN PREPARED BY:  
 District **D5**  
 Maintenance

CALC. BY BCT  
 DATE 9-22-84  
 CHKD. BY SKB  
 DATE 11-14-94

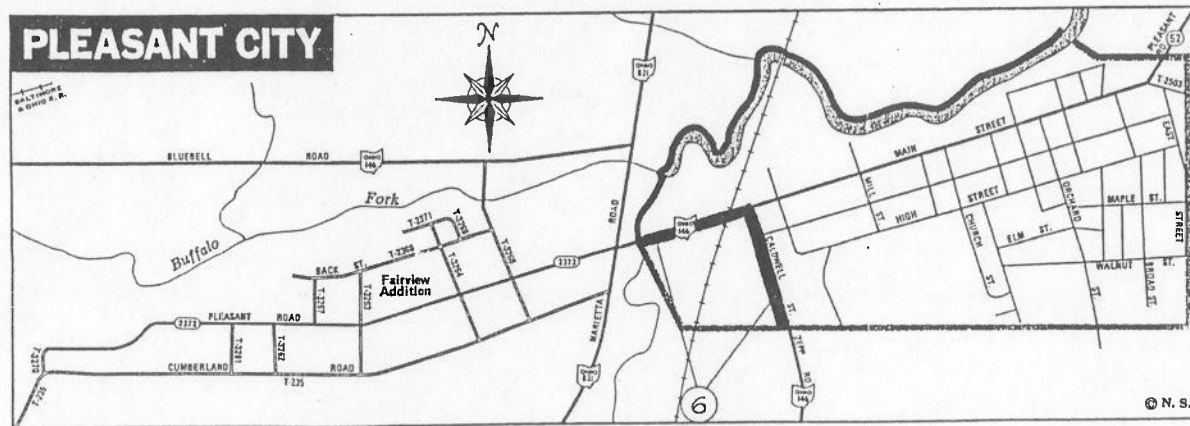
SKB  
 INITIALS  
 12-1-94  
 DATE

FEDERAL PROJECT NO. \_\_\_\_\_  
 CONSTRUCTION PROJECT NO. \_\_\_\_\_  
 PID NO. 11177  
 RAILROAD INVOLVEMENT \_\_\_\_\_  
 GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00  
 1/35



GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC BY _____	PLAN NO.
DATE _____	
CHKD BY _____	PLAN NO.
DATE _____	



## GENERAL NOTES

GUE-87-0.00	DATE	PLAN NO. <b>145</b>
MUS-146-26.47	DATE	
GUE-146-0.00	CHKD. BY	
GUE-672-0.00	DATE	
NOB-672-0.00		

### SHOULDER RESTORATION

IN ORDER TO PROVIDE POSITIVE DRAINAGE FROM THE ROADWAY SURFACE TO THE SHOULDER BREAK, (6' MINIMUM WIDTH OR AS DIRECTED BY THE ENGINEER) THE EXISTING ROADWAY SHOULDERS SHALL BE GRADED AND SHAPED USING A GRADER OF ADEQUATE SIZE TO PERFORM THE WORK TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE GRADING AND SHAPING WORK, INCLUDING LABOR AND INCIDENTALS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - GRADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF GRADER HOURS WORKED.

ALL EXCESS MATERIAL REMAINING AFTER THE GRADER WORK IS COMPLETED, SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. PAYMENT FOR ALL OF THE ABOVE REMOVAL WORK SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - LOADER RENTAL, AND SHALL BE FOR THE ACTUAL NUMBER OF LOADER HOURS WORKED. ANY OTHER EQUIPMENT, LABOR OR INCIDENTALS REQUIRED TO COMPLETE THIS ITEM SHALL BE INCLUDED THEREIN FOR PAYMENT. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE PURPOSES.

	PART	1	2	3	4	5	6	7	8
ITEM SPECIAL -	GRADER RENTAL	2	2	24	28	3	1	8	1
ITEM SPECIAL -	LOADER RENTAL	1	1	12	14	2	1	4	1

### RESIDENCE AND COMMERCIAL DRIVES

AN ESTIMATED QUANTITY OF ITEM 448 ASPHALT CONCRETE HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER TO PAVE APPROACH AREAS TO EXISTING DRIVEWAYS. PAVING SHALL EXTEND 10 FEET INTO THE DRIVEWAY, MEASURED FROM THE EDGE OF THE PAVEMENT, OR PAVED BERM. THICKNESS SHALL BE APPROXIMATELY THE SAME AS THE ROADWAY PAVEMENT OR PAVED BERM. FIELD DRIVES AND OIL WELL DRIVES WILL NOT BE PAVED.

ANY GRADING OF EXISTING DRIVES, TACK OR PRIME COAT, ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE WORK ON DRIVES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1 (DRIVEWAYS).

PAVING OF THE MAINLINE SHALL BE COMPLETED BEFORE THE WORK DESCRIBED ABOVE SHALL BEGIN ON DRIVES.

THE QUANTITIES SHOWN IN THE TABLE BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

PART	1	2	3	4	5	6	7	8
CU.YD.	3	18	54	39	9	12	21	1.5

### EXTRA ASPHALT FOR PRE-LEVELING

A QUANTITY OF 448 INTERMEDIATE COURSE HAS BEEN INCLUDED IN THE PLAN TO BE USED AT THE DIRECTION OF THE ENGINEER FOR PRE-LEVELING WHERE THE PAVEMENT IS LOW OR DETERIORATED.

THE QUANTITY OF ITEM 448 SHOWN BELOW HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 448 ASPHALT CONCRETE, INTERMEDIATE COURSE, TYPE 1, AC-20

PART	1	2	3	4	5	6	7	8
CU.YD.	25	25	400	450	50	15	150	20

### MAIL BOX TURN OUTS

A QUANTITY OF ASPHALT CONCRETE HAS BEEN PROVIDED IN THE PLAN TO COVER MAIL BOX TURN OUTS. TURN OUTS SHALL BE PAVED AS SHOWN IN THE DETAIL IN DRAWING BP-4.1, 2-21-92.

ANY EXTRA GRADING OF THE SHOULDERS, PRIME OR TACK COAT, MATERIALS, LABOR, EQUIPMENT TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAIL BOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20.

ITEM 448 ASPHALT CONCRETE, SURFACE COURSE, TYPE 1, AC-20.  
CU.YD. (SEE TABLE BELOW)

PART	1	2	3	4	5	6	7	8
CU.YD.	-	-	29	36	4	-	10	2

### ITEM 614 WORK ZONE MARKING SIGNS

A TOTAL QUANTITY OF A EACH WORK ZONE MARKING SIGNS (B EACH "NO EDGE LINES" OW-167 AND C EACH "UNMARKED NO PASSING ZONES" OW-168) ARE CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. ALSO INCLUDED ARE D EACH "BEGIN ROAD CONSTRUCTION AHEAD" OW-128 AND E EACH "END ROAD CONSTRUCTION" OC-8, FOR ADJOINING SIDE ROADS.

PART	1	2	3	4	5	6	7	8
A	6	8	34	56	16	12	24	8
B	2	3	11	18	6	4	8	2
C	2	3	11	18	6	4	8	2
D	1	1	6	10	2	2	4	2
E	1	1	6	10	2	2	4	2

## GENERAL NOTES

DATE	
DATE	
CHKD. BY	PLAN NO. <b>145</b>
DATE	

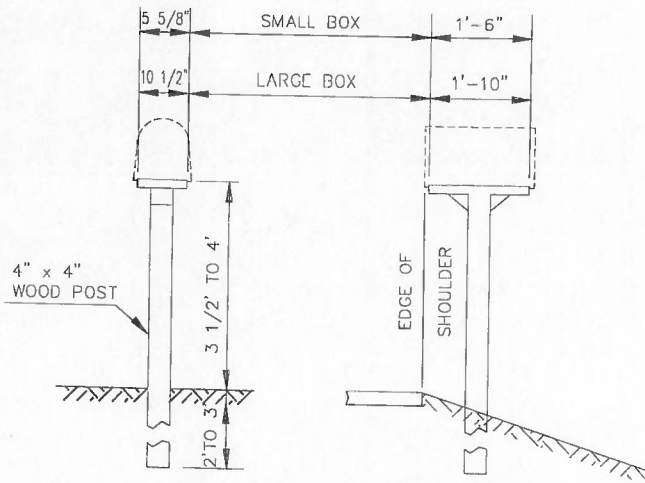
### ITEM SPECIAL – MAILBOX SUPPORTS

THIS ITEM SHALL CONSIST OF REPLACING AND RESETTING DESIGNATED MAILBOX SUPPORTS WITH PRESSURE TREATED FOUR INCH (NOMINAL) TIMBER POSTS MEETING AASHTO M 133-81 AWP A P 8 OR AWP A 5. MAILBOX SUPPORTS SHALL BE CONSTRUCTED AS PER THE DRAWING ON THIS SHEET. ALL MATERIAL, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE REMOVAL AND INSTALLATION OF THE EXISTING MAILBOX ON THE NEW TIMBER POSTS AND RESETTING THE MAILBOX POSTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL – MAILBOX SUPPORTS.

THE FOLLOWING QUANTITIES ARE CARRIED TO THE GENERAL SUMMARY FOR THE ABOVE PURPOSE.

ITEM SPECIAL – MAILBOX SUPPORTS

PART	1	2	3	4	5	6	7	8
EACH	-	-	4	6	-	-	3	-



TYPICAL MAILBOX LOCATION AND MOUNTING HEIGHT

MAILBOX ADDRESSES:

- PART 3: 9140, 10935, 10955 AND 11050
- PART 4: 3415, 3487, 5511, 7844, 8042 AND 8420
- PART 7: 7875, 8435 AND 8731

### MANHOLES, CATCH BASINS, AND WATER VALVE BOXES ADJUSTED TO GRADE

SEWER MANHOLES, CATCH BASINS AND WATER VALVE BOXES THAT ARE TO BE ADJUSTED TO GRADE ARE LISTED BELOW. THESE NUMBERS ARE TAKEN FROM FIELD COUNTS. HOWEVER, THE ACTUAL NUMBER THAT ARE TO BE ADJUSTED TO GRADE WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF CONSTRUCTION. PAYMENT SHALL BE FOR THE ACTUAL NUMBERS OF EACH ITEM THAT ARE ADJUSTED TO GRADE AS DETERMINED BY THE ENGINEER.

WHEN ADJUSTING MANHOLES EXTREME CARE SHALL BE TAKEN WHEN REMOVING CONCRETE, SO AS NOT TO DAMAGE MANHOLE COVERS AND FRAMES. MANHOLES SHALL BE ADJUSTED USING COMPACTED ASPHALT CONCRETE AS SHOWN IN DRAWING BP-31, 2-21-92.

WHEN ADJUSTING MANHOLES, CATCH BASINS, AND WATER VALVE BOXES ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, ASPHALT, INCIDENTALS, AND REMOVAL OF EXISTING CONCRETE AND BRICKS SHALL BE PAID FOR UNDER EACH ITEM AS SHOWN ON THE GENERAL SUMMARY.

GAS VALVE BOXES AND TELEPHONE COMPANY MANHOLES AND ANY OTHER UTILITIES ENCOUNTERED ON THE PROJECT SHALL BE ADJUSTED TO GRADE BY THE RESPECTIVE OWNERS.

#### CATCH BASINS

PART	1	2	3	4	5	6	7	8
EACH	-	-	-	-	8	-	-	-

### RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN

REMOVAL OF RAISED PAVEMENT MARKERS SHALL CONFORM WITH SECTION NO. 202.071 IN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL EXCEPT FOR THE FOLLOWING:

ONCE PAVEMENT MARKERS HAVE BEEN REMOVED THE OPENING THAT REMAINS IN THE ROADWAY SHALL BE CLEANED FREE OF ALL DEBRIS, TACKED AND FILLED WITH ASPHALT CONCRETE BY THE END OF THE SAME CONSTRUCTION DAY.

AFTER PAVEMENT MARKERS HAVE BEEN REMOVED BY THE CONTRACTOR, HE WILL THEN BE RESPONSIBLE TO TAKE THE REMOVED MARKERS TO A STATE GARAGE THAT WILL BE DESIGNATED BY THE ENGINEER. THE PROJECT ENGINEER SHALL GIVE THE DISTRICT MAINTENANCE ENGINEER 24 HOUR NOTICE PRIOR TO DELIVERY AND THE PROJECT ENGINEER SHALL BE RESPONSIBLE FOR FURNISHING ALL NECESSARY TRANSFER DOCUMENTATION WITH ALL DELIVERIES. PAYMENT FOR ALL WORK DESCRIBED ABOVE SHALL BE PAID FOR UNDER ITEM 202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN.

## GENERAL NOTES

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

DATE	
CHKD. BY	PLAN NO. <b>145</b>
DATE	

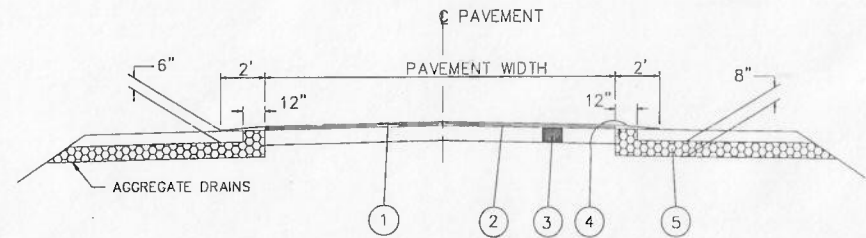
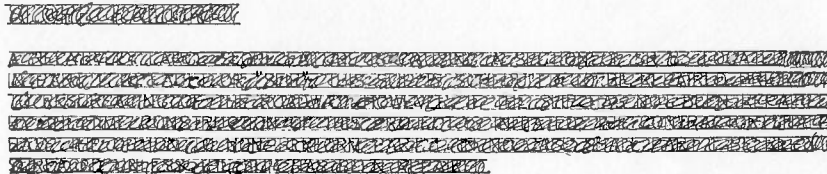
### ITEM 253 - PAVEMENT REPAIR

AN ESTIMATED QUANTITY OF ITEM 253, PAVEMENT REPAIR, HAS BEEN INCLUDED IN THE PLAN TO BE USED AS DIRECTED BY THE ENGINEER TO REPAIR DETERIORATED PAVEMENT. THE PAVEMENT REPAIR SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 253 OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS. DEPTH OF EXCAVATION SHALL BE APPROXIMATELY 8 INCHES. REPLACEMENT MATERIAL SHALL BE 8 INCHES OF ITEM 301, BITUMINOUS AGGREGATE BASE, PLACED AND COMPACTED IN TWO LIFTS OF EQUAL THICKNESS. THE TOP OF THE BITUMINOUS AGGREGATE BASE SHALL BE FINISHED EVEN WITH THE EXISTING PAVEMENT. AFTER PAVEMENT REPAIRS HAVE BEEN COMPLETED, THE ENTIRE PAVEMENT WIDTH SHALL BE OVERLAID WITH ITEM 448 AS DIRECTED BY THE ENGINEER. AGGREGATE DRAINS SHALL BE PROVIDED AS SHOWN ON THE DRAWING ON THIS SHEET WHERE AN OUTLET IS POSSIBLE.

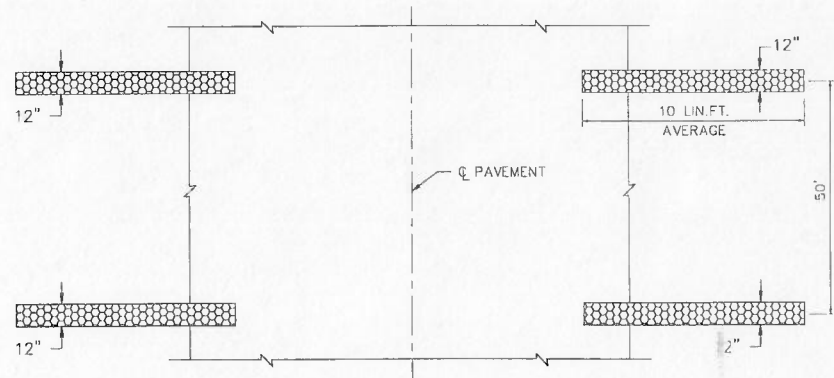
THE QUANTITIES SHOWN BELOW ARE FOR SR 146 IN CUMBERLAND (PART 5) AND SR 146 NORTH OF SR 672 (PART 4) AND ARE FOR ESTIMATING PURPOSES ONLY. ADDITIONAL AREAS MAY BE ENCOUNTERED AT THE TIME OF CONSTRUCTION AND ALSO ON OTHER PARTS. THE ENGINEER WILL DETERMINE PAVEMENT REPAIR LOCATIONS AT THE TIME OF CONSTRUCTION. PAYMENT WILL BE FOR THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR PERFORMED AT DETERMINED BY THE ENGINEER.

<p>PART 4 SR 146</p> <p>SLM 4.41 200' x 10'</p> <p>SLM 4.50 50' x 10'</p> <p>ITEM 253 PAVEMENT REPAIR</p> <p>PART 4 275 SQ.YD.</p> <p>PART 5 446 SQ.YD.</p> <p>ITEM 605 AGGREGATE DRAINS</p> <p>PART 4 200 LIN.FT.</p>	<p>PART 5 - SR 146 IN CUMBERLAND</p> <table border="0" style="width: 100%;"> <tr> <td>75' x 8'</td> <td>30' x 8'</td> </tr> <tr> <td>50' x 25'</td> <td>30' x 8'</td> </tr> <tr> <td>30' x 6'</td> <td>30' x 6'</td> </tr> <tr> <td>20' x 10'</td> <td>30' x 6'</td> </tr> <tr> <td>20' x 10'</td> <td>40' x 6'</td> </tr> <tr> <td>40' x 8'</td> <td>30' x 6'</td> </tr> </table>	75' x 8'	30' x 8'	50' x 25'	30' x 8'	30' x 6'	30' x 6'	20' x 10'	30' x 6'	20' x 10'	40' x 6'	40' x 8'	30' x 6'
75' x 8'	30' x 8'												
50' x 25'	30' x 8'												
30' x 6'	30' x 6'												
20' x 10'	30' x 6'												
20' x 10'	40' x 6'												
40' x 8'	30' x 6'												

NOTE: AGGREGATE DRAINS ARE TO BE USED WITH PAVEMENT REPAIR IN PART 4 ONLY.



- ① 448 - 1" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20
- ② 448 - 1" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, AC-20
- ③ 301 - 8" BITUMINOUS AGGREGATE BASE
- ④ 617 - 2 1/4" (AVERAGE) COMPACTED AGGREGATE
- ⑤ 605 - AGGREGATE DRAINS



PAVEMENT REPAIR DETAIL

### ITEM 617 COMPACTED AGGREGATE, TYPE A, AS PER PLAN

ALL AGGREGATE SHALL BE 100% CRUSHED LIMESTONE. ALL QUALITY REQUIREMENTS EXCEPT SHALE SHALL BE WAIVED. OTHER GRADATION REQUIREMENTS SHALL BE AS SPECIFIED EXCEPT THE PLASTICITY INDEX SHALL BE WAIVED. MATERIAL SHALL MEET THE APPROVAL OF THE ENGINEER.

## GENERAL NOTES

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC. BY _____					
DATE _____					
CHG. BY _____					PLAN NO. <b>145</b>
DATE _____					

### ITEM 604 - CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN

CATCH BASINS ~~RECONSTRUCTED TO GRADE AS PER PLAN~~ SHALL BE RECONSTRUCTED TO GRADE AS WRITTEN IN THE CMS MANUAL EXCEPT FOR THE FOLLOWING: ALL FRAMES, GRATES, CONCRETE, BRICKS, MORTAR, MATERIALS, LABOR, TOOLS AND INCIDENTALS NECESSARY TO RECONSTRUCT CATCH BASINS SHALL BE PAID FOR UNDER ITEM 604 CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN. WALLS OF CATCH BASINS SHALL BE REMOVED BEYOND THE POINT OF DETERIORATION. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM A FIELD INSPECTION PRIOR TO BIDDING AND CONSTRUCTION OF THIS PROJECT IN ORDER TO ESTIMATE QUANTITIES OF CONCRETE NEEDED AND SIZES OF FRAMES AND GRATES. WHEN CATCH BASINS ARE BEING CONSTRUCTED THEY SHALL BE CLEANED FREE OF ALL DEBRIS; IF WALLS OF CATCH BASINS NEED TO BE REMOVED BELOW EXISTING WINDOWS, INLET OR OUTLET PIPES, PROPOSED WALLS SHALL BE CAST-IN-PLACE AS WAS ORIGINALLY DESIGNED. INLET AND OUTLET PIPES SHALL BE STUBBED IN TO EXISTING PIPES. CATCH BASINS SHALL BE ADJUSTED TO GRADE AS APPROVED BY THE ENGINEER. FINAL GRATE ELEVATIONS SHALL BE APPROVED BY THE ENGINEER. AT THE TIME OF CONSTRUCTION; GRATES SHALL BE LOCATED TO ACHIEVE MAXIMUM DRAINAGE.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR THE PURPOSE DESCRIBED ABOVE.

ITEM 604 CATCH BASIN RECONSTRUCTED TO GRADE, AS PER PLAN  
 5 EACH (PART 5)

### NOTIFICATION OF ROAD CLOSURE OR RESTRICTION

IN ORDER FOR ODOT TO PROPERLY PERMIT OVERSIZE LOADS, PREPARE PROPER SIGNING WHEN REQUIRED AND FURTHER TO NOTIFY THE GENERAL MOTORING PUBLIC, THE CONTRACTOR SHALL NOTIFY (IN WRITING) THE DISTRICT 5 CONSTRUCTION ENGINEER WITH COPIES FOR THE DISTRICT 5 TRAFFIC ENGINEER AND PROJECT ENGINEER NOT LESS THAN 21 DAYS BEFORE ACTIVATING SUCH CLOSURE OR LANE RESTRICTION.

SEND NOTIFICATION TO:

CHRISTOPHER ENGLE  
 DISTRICT 5 CONSTRUCTION ENGINEER  
 P.O. BOX 306  
 JACKSONTOWN, OHIO 43030

PHONE: (614) 323-4400 EXT. 240

### UTILITIES NOTIFICATION

COOPERATION WITH THE FOLLOWING UTILITY COMPANIES SHALL BE AS DESCRIBED IN SECTION 105.06 OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS.

COLUMBIA GAS OF OHIO  
 204 HIGHLAND AVENUE  
 P.O. BOX 250  
 CAMBRIDGE, OH 43725

ATTN: MARK HILL,  
 SUPERVISORY ENGINEER  
 (614) 432-8226

OHIO POWER COMPANY  
 301 CLEVELAND AVE., SW  
 P.O. BOX 24400  
 CANTON, OH 44701-4400

ATTN: LEONARD WHALEY,  
 PUBLIC PROJECTS  
 (216) 438-7040

KINGSTON OIL CORPORATION  
 1800 DIETZ LANE  
 ZANESVILLE, OH 43701

ATTN: LARRY MURREY  
 (614) 452-2046

NATIONAL GAS & OIL CORPORATION  
 1500 GRANVILLE ROAD  
 P.O. DRAWER-AF  
 NEWARK, OH 43055-0693

ATTN: DAVE DETTY/DON STOCK  
 (614) 344-2102

COLUMBIA GAS TRANSMISSION CORP.  
 SUNBERRY WOODS OFFICE PARK  
 P.O. BOX 6164  
 4111 EXECUTIVE PARKWAY  
 WESTERVILLE, OH 43081

ATTN: MARK BRODT  
 (614) 895-5033

OXFORD OIL COMPANY  
 4900 BOGGS ROAD, P.O. BOX 2909  
 ZANESVILLE, OH 43701

ATTN: ROBERT MACLEAN  
 (614) 452-4503

TENNESSEE GAS PIPELINE COMPANY  
 2000 CORPORATE DRIVE, SUITE 200  
 WEXFORD, PA 15090

ATTN: NORM WINTER, R/W AGENT  
 (412) 934-1030

GTE NORTH, INC.  
 754 UNION STREET, P.O. BOX 430  
 ATHENS, OH 45701

ATTN: CHUCK MATTER, DIV. ENGR.  
 (614) 592-0540

GUERNSEY-MUSKINGUM ELECTRIC COMPANY  
 17 S. LIBERTY STREET  
 NEW CONCORD, OH 43762

ATTN: CURT JONES, ENGR.  
 (614) 826-7661

EAST OHIO GAS COMPANY  
 60755 COUNTRY CLUB ROAD  
 BYESVILLE, OH 43723

ATTN: JIM JOHNSON/  
 LES BENNET  
 (614) 439-2721

WESTERN RESERVE (ALLTEL) TELEPHONE CO.  
 SOUTHERN DISTRICT, P.O. BOX 5  
 FAIRVIEW, OH 43736

ATTN: KEN WINTERS  
 (614) 758-5818

## GENERAL NOTES

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC. BY _____	
DATE _____	
CHD. BY _____	PLAN NO. _____
DATE _____	

7  
35

### ITEM 609 CURB, TYPE 6, AS PER PLAN

A QUANTITY OF NEW CURB, TYPE 6 HAS BEEN INCLUDED IN THE PLAN TO REPLACE DETERIORATED CURB ON SR 83 AND SR 146 IN CUMBERLAND. THE LOCATION OF THE PROPOSED CURB SHALL BE APPROXIMATELY THE SAME AS THE EXISTING.

THE CURB ON SR 83(PART 2) SHALL BEGIN AT SLM 0.64 AND CONTINUE TO SLM 0.71(SR 146) APPROXIMATE TOTAL CURB LENGTH IS 740 LIN.FT.

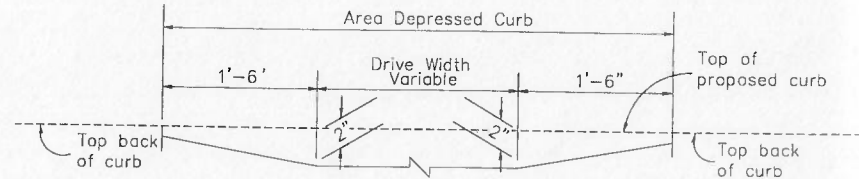
THE CURB ON SR 146(PART 5) SHALL BEGIN AT SLM 1.71 AND CONTINUE TO SLM 2.44. APPROXIMATE TOTAL CURB LENGTH IS 7700 LIN.FT. NEW CURB SHALL BE DEPRESSED AT DRIVEWAYS AS DETAILED ON THIS SHEET. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL INFORMATION AND MATERIALS NEEDED TO ESTABLISH THE ELEVATIONS OF THE PROPOSED CURB. ALL WORK SHALL MEET THE APPROVAL OF THE ENGINEER.

PREPARATION FOR NEW CURB, REMOVAL OF OBSTRUCTIONS, EARTH WORK, ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND ANY INCIDENTALS NECESSARY TO CONSTRUCT THE CURB SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 609 CURB, TYPE 6, AS PER PLAN. PAYMENT WILL BE FOR ACTUAL AMOUNT OF CURB CONSTRUCTED AS DETERMINED BY THE ENGINEER.

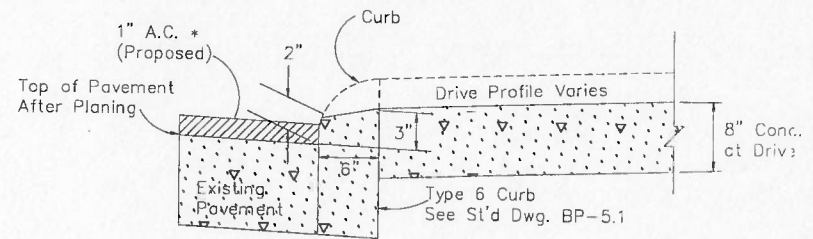
EARTH WORK AND SEEDING BEHIND THE CURB SHALL BE APPROVED BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM	DESCRIPTION	UNIT	PART 2	PART 5
202	CURB REMOVED	LIN.FT.	740	7700
609	CURB, TYPE 6, AS PER PLAN	LIN.FT.	740	7700
659	SEEDING AND MULCHING	SQ.YD.	247	2567
659	AGRICULTURAL LIMING	TON	0.12	3.47
659	COMMERCIAL FERTILIZER	TON	0.02	0.69
659	WATER	MGAL	1	3



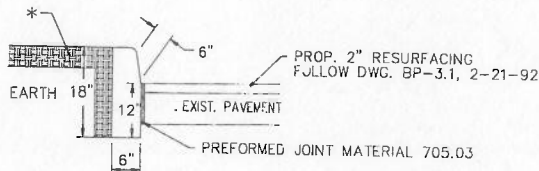
CURB HEIGHT REDUCTION DETAIL  
(AT BACK OF CURB)



DEPRESSED CURB DETAILS AT DRIVEWAYS

Note: Drive locations shall be determined by the Engineer at the time of construction.

\* PAVING AS PER STD. DWG. BP-3.1 (GUTTER FINISH DETAIL)



CURB, TYPE 6, AS PER PLAN

NOTE:  
 SEE DWG. BP-5.1,  
 2-21-92 FOR  
 FURTHER DETAILS  
 OF CURB.

\* NOTE:  
 CONTRACTOR WILL BE RESPONSIBLE TO REPLACE AND SEED ALL EARTH DISTURBED BY THE INSTALLATION OF THE NEW CURB.

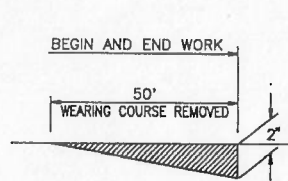
GJE-63-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

DATE	
CHKD. BY	
DATE	
PLAN NO.	145

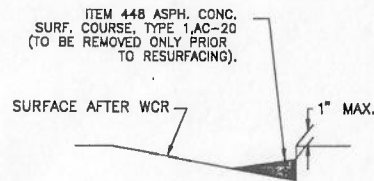
### BUTT JOINT

A BUTT JOINT WILL BE REQUIRED AT THE BEGINNING AND ENDING OF EACH ROUTE TO BE RESURFACED. AFTER THE JOINT IS CONSTRUCTED, THE DROP OFF CREATED SHALL BE MINIMIZED BY TEMPORARILY FILLING THE VOID TO WITHIN AT LEAST 1" OF THE EXISTING ROADWAY SURFACE (SEE DETAIL BELOW). A BUTT JOINT WILL BE REQUIRED AT THE FOLLOWING LOCATIONS:

PART	LOCATION
1	GUE--83 @ SLM 0.00
2	GUE-83 @ SLM 1.13
3	MUS-146 @ SLM 26.41
4	GUE-146 @ SLM 10.62
8	NOB-672 @ SLM 0.37



BUTT JOINT DETAIL



DROP OFF DETAIL

ITEM	PART				
	1	2	3	4	8
202 WEARING COURSE REMOVED, SQ.YD.	122	122	161	100	111
407 TACK COAT, GALLONS	6	6	8	5	5
448 ASPH. CONC., SURFACE COURSE, TYPE 1,AC-20 CU.YD.	0.50	0.50	1.0	0.50	0.50

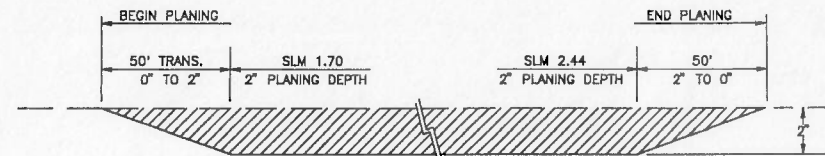
QUANTITIES CARRIED TO THE GENERAL SUMMARY

### LIQUIDATED DAMAGES FOR EXCESSIVE TIME BETWEEN PLANING AND PAVING

NO MORE THAN 21 CALENDAR DAYS SHALL ELAPSE BETWEEN THE TIME THE PAVEMENT PLANING OPERATION COMMENCES AND THE APPLICATION OF THE ITEM 448, ASPHALT CONCRETE—LIQUIDATED DAMAGES, AS DESCRIBED IN SECTION 108.07 OF THE STATE OF OHIO, CONSTRUCTION AND MATERIAL SPECIFICATIONS WILL BE DEDUCTED FROM ANY MONEY DUE THE CONTRACTOR FOR ALL DAYS IN EXCESS OF THE TIME LIMITS DESCRIBED ABOVE.

### ITEM 254 PAVEMENT PLANING, BITUMINOUS

ALL PLANING TO BE PERFORMED IN CUMBERLAND SHALL BE TO A DEPTH OF 2". A BUTT JOINT SHALL BE CONSTRUCTED AT THE RADIUS TERMINAL OF EACH STREET AND DRIVEWAY TO BE PLANNED IN PART 5. EACH END OF THE SECTION TO BE PLANNED ON SR 146 SHALL BE FEATHERED AT A RATE OF 1 INCH IN 25 FEET (SEE DETAIL BELOW).



PLANING DETAIL FOR SR 146 - CUMBERLAND

PLANING SHALL BE PERFORMED SUCH THAT THE PAVEMENT SURFACE IS SLOPED AT A RATE OF 3/16 INCH/FT. FROM CENTERLINE. CARE SHALL BE EXERCISED WHEN PLANING AROUND MANHOLES, CATCH BASINS AND VALVE BOXES SO AS NOT TO DAMAGE CASTINGS. ALL MANHOLES, CATCH BASINS AND VALVE BOXES THAT ARE NOT LEVEL WITH THE FINISHED PAVEMENT SURFACE SHALL BE ADJUSTED TO GRADE AS DIRECTED BY THE ENGINEER. THE ENGINEER MAY ADJUST PLANING DEPTHS AT ANY TIME TO MEET EXISTING CONDITIONS AT THE TIME OF CONSTRUCTION. PAVEMENT PLANING QUANTITIES ARE SHOWN ON SHEETS 25 AND 26.

### ITEM 254 PATCHING PLANED SURFACE

A QUANTITY OF SURFACE PATCHING HAS BEEN INCLUDED IN THE PLAN TO REPLACE UNSOUND PAVEMENT RESULTING FROM PLANING. THE ENGINEER WILL DETERMINE WHERE THIS WORK WILL BE PERFORMED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 254 - PATCHING PLANED SURFACE	584 SQ.YDS. (PART 5)
	6 SQ.YDS. (PART 4)
	130 SQ.YDS. (PART 3)



### EDGE LINE SUB-SUMMARY

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC. BY _____	PLAN NO. <b>145</b>
DATE _____	
CHKD. BY _____	
DATE _____	

CO.	ROUTE	S.L.M.		WHITE EDGE LINE QU.			YELLOW EDGE LINE QU.			PARTICIPATION TYPE				EDGE LINE TOTAL MILES	REMARKS
		FROM	TO	TOTAL MILES	HIGHWAY	RAMP	TOTAL MILES	HIGHWAY	RAMP	IRG	FG	RSG	NON FED STATE		
GUE	SR 83	0.00	0.54	1.08	0.54								PART 1	1.08	NOB. CO. TO CUMBERLAND SOUTH CORP.
GUE	SR 83	0.54	1.13	1.18	0.59								PART 2	1.18	CUMBERLAND S. CORP. TO CUMBERLAND N. CORP.
MUS	SR 146	26.41	34.49	16.16	8.08								PART 3	16.16	SR 313 TO GUE. CO. LINE
GUE	SR 146	0.00	1.70	3.40	1.70								PART 4	3.40	MUS. CO. LINE TO CUMBERLAND W. CORP.
		2.83	9.86	14.06	7.03								PART 4	14.06	CUMBERLAND E. CORP TO SR 821
		9.99	10.01	0.04	0.02								PART 4	0.04	SR 821 TO PLEASANT CITY W. CORP.
		10.30	10.62	0.64	0.32								PART 4	0.64	PLEASANT CITY S. CORP. TO NOB. CO. LINE
GUF	SR 146	TOTALS		18.14	9.07								PART 4	18.14	
GUE	SR 146	1.70	2.83	2.26	1.13								PART 5	2.26	CUMBERLAND W. CORP. TO CUMBERLAND E. CORP.
GUE	SR 146	10.01	10.30	0.58	0.29								PART 6	0.58	PLEASANT CITY W. CORP. TO PLEASANT CITY E. CORP.
GUE	SR 672	0.00	2.76	5.52	2.76								PART 7	5.52	SR 146 TO NOB. CO. LINE
NOB	SR 672	0.00	0.37	0.74	0.37								PART 8	0.74	GUE. CO. LINE TO SR 821

QUANTITIES INCLUDE CL AROUND OUTSIDE OF PAINTED ISLAND

### CENTER LINE SUB-SUMMARY

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

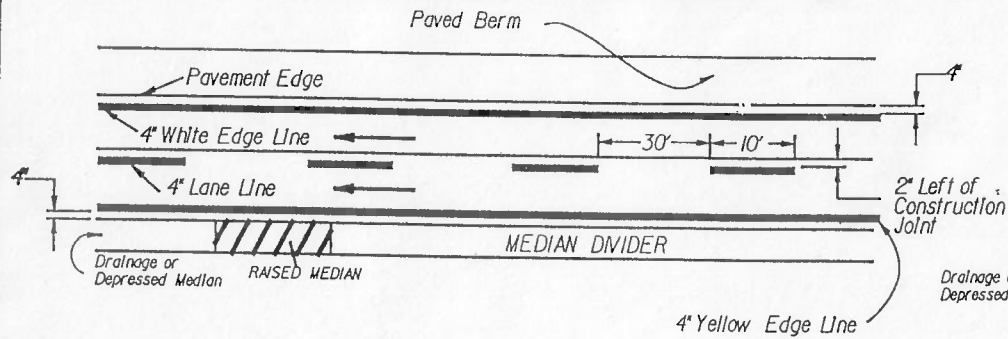
CALC. BY _____	PLAN NO. <b>145</b>
DATE _____	
CHD. BY _____	
DATE _____	

10  
35

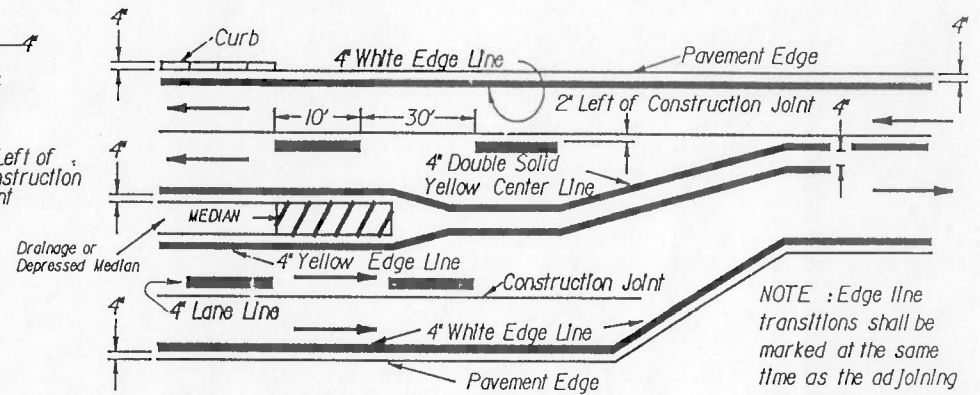
COUNTY	ROUTE	S.L.M.		CENTER LINES QUANTITIES		PARTICIPATION TYPE					REMARKS	
		FROM	TO	TOTAL MILES	EQUIVALENT SOLID LINE	IRG	FG	RSG	NON FED STATE	TOTALS		
GUE	SR 83	0.00	0.54	0.54	0.754							
									PART 1	0.54		NOB. CO. LINE TO CUMBERLAND S. CORP.
GUE	SR 83	0.54	1.13	0.59	0.938							
									PART 2	0.59		CUMBERLAND S. CORP. TO CUMBERLAND N. CORP.
MUS	SR 146	26.41	34.49	8.08	11.988							
									PART 3	8.08		SR 313 TO GUE. CO. LINE
GUE	SR 146	0.00	1.70	1.70	2.024							
		2.83	9.86	7.03	12.116				PART 4	1.70		MUS. CO. LINE TO CUMBERLAND E. CORP.
		9.99	10.01	0.02	0.04				PART 4	7.03		CUMBERLAND E. CORP. TO SR 821
		10.30	10.62	0.32	0.640				PART 4	0.02		SR 821 TO PLEASANT CITY W. CORP.
									PART 4	0.32		PLEASANT CITY S. CORP. TO NOB. CO. LINE
GUE	SR 146	TOTALS		9.07	14.82				PART 4	9.07		
GUE	SR 146	1.70	2.83	1.13	2.260							
									PART 5	1.13		CUMBERLAND W. CORP. TO CUMBERLAND E. CORP.
GUE	SR 146	10.01	10.30	0.29	0.580							
									PART 6	0.29		PLEASANT CITY W. CORP. TO PLEASANT CITY E. CORP.
GUE	SR 672	0.00	2.76	2.76	5.180							
									PART 7	2.76		SR 146 TO NOB. CO. LINE
NOB	SR 672	0.00	0.37	0.37	0.725							
									PART 8	0.37		GUE. CO. LINE TO SR 821

PLAN NO. \_\_\_\_\_

### FREEWAY & EXPRESSWAY MAINLINE MARKINGS

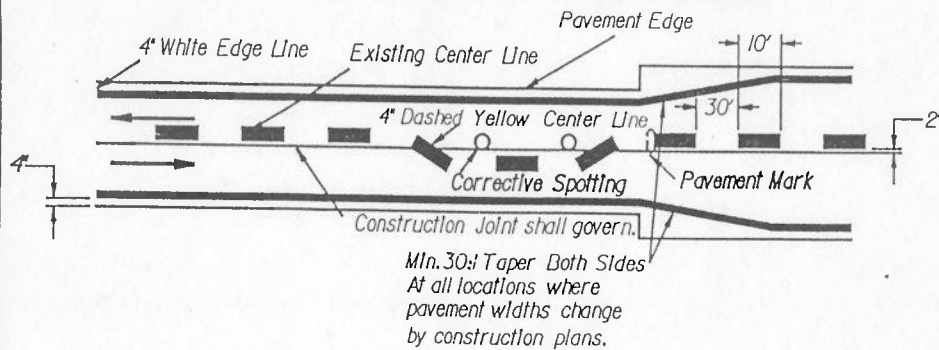


### MULTILANE DIVIDED & UNDIVIDED HIGHWAY MARKINGS



NOTE: Edge line transitions shall be marked at the same time as the adjoining edge lines.

### TWO LANE MARKINGS



#### NOTES:

1. The distance from the pavement edge to the nearside edge of the edgeline may be increased with the approval of the engineer in order to maintain uniform lane width.
2. See TC-72.20 for entrance and exit ramp markings.
3. The cycle length for dashed lines shall be 40 feet plus or minus 6 inches. The minimum length of dash shall be sufficiently long to maintain a 3:1 ratio between length of gap and length of dash.

# LOCATION SUB-SUMMARY

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC. BY _____	PLAN NO. <b>145</b>
DATE _____	
CHKD. BY _____	
DATE _____	

12  
35

DETAIL	
1	MULTILANE UNDIVIDED
1	TYPICAL SPACING

DETAIL	
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIVIDED/EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	ONE LANE APPROACH W/LT. TURN LANE
8	THRU APPROACH
9	TWO LANE APPROACH W/LT. TURN LANE

DETAIL	
10	4 LANE DIVIDED TO 2 LANE TRANSITION
11	4 LANE UNDIVIDED TO 2 LANE TRANSITION
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN LANE
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE

DETAIL	
16	HORIZONTAL CURVE ALT.
17	STOP APPROACH ALT.
GAP	CENTERLINE AT 80' IYP.

LOCATION NUMBER	LOCATION				DETAIL	RPM	PRISMATIC RETRO-REFLECTOR	INSTALLATION ONLY			PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. SECTION					RPM	RPM	ONE-WAY		TWO-WAY				
			FROM	TO						WHITE	YELLOW	WHITE/WHITE	YELLOW/YELLOW	WHITE/RED		
	GUE	SR 83	0.00	0.14	GAP		9					9				
	GUE	SR 83	0.14	0.39	16		43					43			PC 0.23 PT 0.30 L=370' DEG 8	
	GUE	SR 83	0.39	0.54	GAP		10					10			END CUMBERLAND S. CORP.	
	TOTAL PART 1						62					62				
	MUS	SR 146	26.41	26.51	8		25					12		13	EAST APPROACH TO SR 313	
	MUS	SR 146	26.51	26.68	8		38					16		22	WEST APPROACH TO SR 284	
	MUS	SR 146	26.68	27.17	GAP		32							32		
	MUS	SR 146	27.17	27.42	16		43							43	PC 27.26 PT 27.33 L=370' DEG 9	
	MUS	SR 146	27.42	29.13	GAP		112							112		
	MUS	SR 146	29.13	29.35	16		35							35	PC 29.22 PT 29.26 L=211' DEG 11	
	MUS	SR 146	29.35	29.87	15		68							68		
	MUS	SR 146	29.87	30.13	GAP		17							17		
	MUS	SR 146	30.13	30.35	16		35							35	PC 30.22 PT 30.26 L=211' DEG 10	
	MUS	SR 146	30.35	30.66	GAP		20							20		
	MUS	SR 146	30.66	30.90	16		40							40	PC 30.75 PT 30.81 L=317' DEG 9	
	MUS	SR 146	30.90	31.03	GAP		8							8		
	MUS	SR 146	31.03	31.28	16		43							43	PC 31.12 PT 31.19 L=370' DEG 15	
	MUS	SR 146	31.28	31.45	16		28							28	PC 31.32 PT 31.36 L=211' DEG 9	
	MUS	SR 146	31.45	31.62	16		27							27		
	MUS	SR 146	31.62	34.49	GAP		189							189	END GUE. CO.	
	TOTAL PART 3						760					28		732		
	COUNTY AND SHEET SUB-TOTALS															

12-01-94 (MAINT - C) GUEB3RM1

# LOCATION SUB-SUMMARY

GUE-85-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC. BY		DATE		PLAN NO. <b>145</b>
CHKD. BY		DATE		

13  
35

DETAIL	
1	MULTILANE UNDIVIDED
1	TYPICAL SPACING

DETAIL	
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIVIDED/EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	ONE LANE APPROACH W/LT. TURN LANE
8	THRU APPROACH
9	TWO LANE APPROACH W/LT. TURN LANE

DETAIL	
10	4 LANE DIVIDED TO 2 LANE TRANSITION
11	4 LANE UNDIVIDED TO 2 LANE TRANSITION
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN LANE
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE

DETAIL	
16	HORIZONTAL CURVE ALT.
17	STOP APPROACH ALT.
GAP	CENTERLINE AT 80' TYP.

LOCATION NUMBER	LOCATION				DETAIL	RPM	PRISMATIC RETRO-REFLECTOR	INSTALLATION ONLY			PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. SECTION					RPM	RPM	ONE-WAY		TWO-WAY				
			FROM	TO						WHITE	YELLOW	WHITE/WHITE	YELLOW/YELLOW	WHITE/RED		
	GUE	SR 146	0.00	0.20	15											
	GUE	SR 146	0.20	1.25	GAP		26									BEGIN MUS. CO.
	GUE	SR 146	1.25	1.42	8		38									
	GUE	SR 146	1.42	1.59	8		38		16							WEST APPROACH TO SR 340
	GUE	SR 146	1.59	1.62	15		4		16							EAST APPROACH TO SR 340
	GUE	SR 146	1.62	1.70	GAP		5									
	GUE	SR 146	2.83	3.04	GAP		14									END CUMBERLAND W. CORP.
	GUE	SR 146	3.04	3.23	16		32									BEGIN CUMBERLAND E. CORP.
	GUE	SR 146	3.23	3.65	14		110									PC 3.13 PT 3.18 L=264' DEG 8
	GUE	SR 146	3.65	3.92			35				78					BRIDGE GUE-146-0344
	GUE	SR 146	3.92	4.05	16		21									
	GUE	SR 146	4.05	4.18	GAP		8									
	GUE	SR 146	4.18	4.35	8		38									
	GUE	SR 146	4.35	4.52	8		38		16							WEST APPROACH @ SR 672
	GUE	SR 146	4.52	5.61	GAP		72		16							EAST APPROACH @ SR 672
	GUE	SR 146	5.61	5.84	16		37									
	GUE	SR 146	5.84	6.13	15		38									
	GUE	SR 146	6.13	6.38	16		43									
	GUE	SR 146	6.38	7.37	GAP		65									
	GUE	SR 146	7.37	7.57	16		29									
	GUE	SR 146	7.57	7.71	16		29									
	GUE	SR 146	7.71	7.84	16		23									
	GUE	SR 146	7.84	7.98	16		25									
	GUE	SR 146	7.98	8.09	16		21									
	GUE	SR 146	8.09	8.21	16		20									
	GUE	SR 146	8.21	8.36	16		28									
COUNTY AND SHEET SUB-TOTALS																

12-01-94 (MAINT - C) GUE.B3RM2

# LOCATION SUB-SUMMARY

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC. BY: _____	PLAN NO. <b>145</b>
DATE: _____	
CHKD. BY: _____	
DATE: _____	

14  
35

DETAIL	
1	MULTILANE UNDIVIDED
1	TYPICAL SPACING

DETAIL	
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIVIDED/EXPRESSWAY

DETAIL	
6	STOP APPROACH
7	ONE LANE APPROACH W/LT. TURN LANE
8	THRU APPROACH
9	TWO LANE APPROACH W/LT. TURN LANE

DETAIL	
10	4 LANE DIVIDED TO 2 LANE TRANSITION
11	4 LANE UNDIVIDED TO 2 LANE TRANSITION
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN LANE
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE

DETAIL	
16	HORIZONTAL CURVE ALT.
17	STOP APPROACH ALT.
GAP	CENTERLINE AT 80' TYP.

LOCATION NUMBER	LOCATION				DETAIL	RPM	INSTALLATION ONLY			PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. SECTION				RPM	PRISMATIC RETRO-REFLECTOR	RPM	ONE-WAY		TWO-WAY			
			FROM	TO						WHITE	YELLOW	WHITE/YELLOW	YELLOW/YELLOW	WHITE/RED	
	TOTAL PART 4														
	GUE	SR 146	8.36	8.93	GAP		38								
	GUE	SR 146	8.93	9.16	16		37								
	GUE	SR 146	9.16	9.65	GAP		32								PC 9.02 PT 9.07 L=264' DEG 19
	GUE	SR 146	9.65	9.86	6		66								
	GUE	SR 146	9.86	9.99	8		30		39						WEST APPROACH TO SR 821
	GUE	SR 146	10.30	10.48	16		28		13						
	GUE	SR 146	10.48	10.62	GAP		9								PC 10.36 PT 10.39 L=158' DEG 10 END NOBLE CO.
	TOTAL PART 4						1146				116	78	952		
COUNTY AND SHEET SUB-TOTALS															

12-01-94 (MAINT - C) GUEB3RW3

# LOCATION SUB-SUMMARY

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC. BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 CHKD. BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PLAN NO. **145**

15  
35

DETAIL	
1	MULTILANE UNDIVIDED
1	TYPICAL SPACING

DETAIL	
2	TAPERED ACCELERATION LANE
3	DECELERATION LANE
4	PARALLEL ACCELERATION LANE
5	MULTILANE DIVIDED/EXPRESSWAY

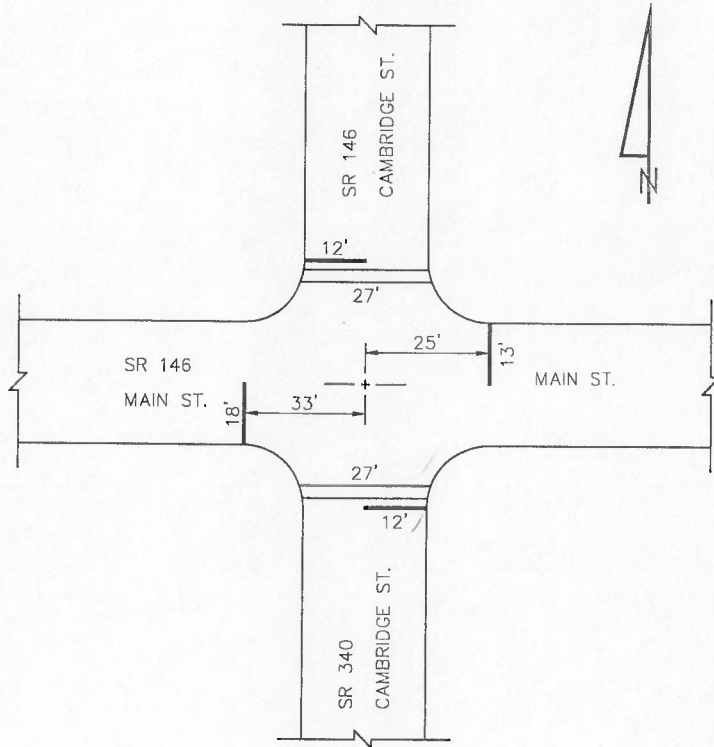
DETAIL	
6	STOP APPROACH
7	ONE LANE APPROACH W/LT. TURN LANE
8	THRU APPROACH
9	TWO LANE APPROACH W/LT. TURN LANE

DETAIL	
10	4 LANE DIVIDED TO 2 LANE TRANSITION
11	4 LANE UNDIVIDED TO 2 LANE TRANSITION
12	TWO LANE NARROW BRIDGE
13	TWO WAY LEFT TURN LANE
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE

DETAIL	
16	HORIZONTAL CURVE ALT.
17	STOP APPROACH ALT.
GAP CENTERLINE AT 80' TYP.	

LOCATION NUMBER	LOCATION				DETAIL	RPM	PRISMATIC RETRO-REFLECTOR	INSTALLATION ONLY			PRISMATIC RETRO-REFLECTOR COLORS					REMARKS
	COUNTY	ROUTE	S.L.M. SECTION					RPM	RPM	ONE-WAY		TWO-WAY				
			FROM	TO						WHITE	YELLOW	WHITE/YELLOW/WHITE	YELLOW/YELLOW/YELLOW	WHITE/YELLOW/RED		
												WHITE	YELLOW	WHITE/RED		
	GUE	SR 672	0.00	0.20	17							39			33	STOP AT SR 146
	GUE	SR 672	0.20	0.32	16										20	PC 0.20 PT 0.23 L=158' DEG 15
	GUE	SR 672	0.32	0.37	GAP										3	
	GUE	SR 672	0.37	0.58	16										32	PC 0.46 PT 0.49 L=158' DEG 7
	GUE	SR 672	0.58	0.82	16										40	PC 0.67 PT 0.73 L=317' DEG 6
	GUE	SR 672	0.82	1.01	16										33	PC 0.86 PT 0.92 L=317' DEG 5
	GUE	SR 672	1.01	1.23	16										39	PC 1.07 PT 1.14 L=370' DEG 10
	GUE	SR 672	1.23	1.46	15										30	
	GUE	SR 672	1.46	1.62	16										31	PC 1.46 PT 1.53 L=370' DEG 8
	GUE	SR 672	1.62	1.81	16										33	PC 1.66 PT 1.72 L=317' DEG 6
	GUE	SR 672	1.81	1.91	GAP										7	
	GUE	SR 672	1.91	2.15	16										40	PC 2.00 PT 2.06 L=317' DEG 7
	GUE	SR 672	2.15	2.76	GAP										40	END NOBLE CO.
	TOTAL PART 7											39			381	
COUNTY AND SHEET SUB-TOTALS																

12-01-94 (MAINT - C) GUEB3PM4

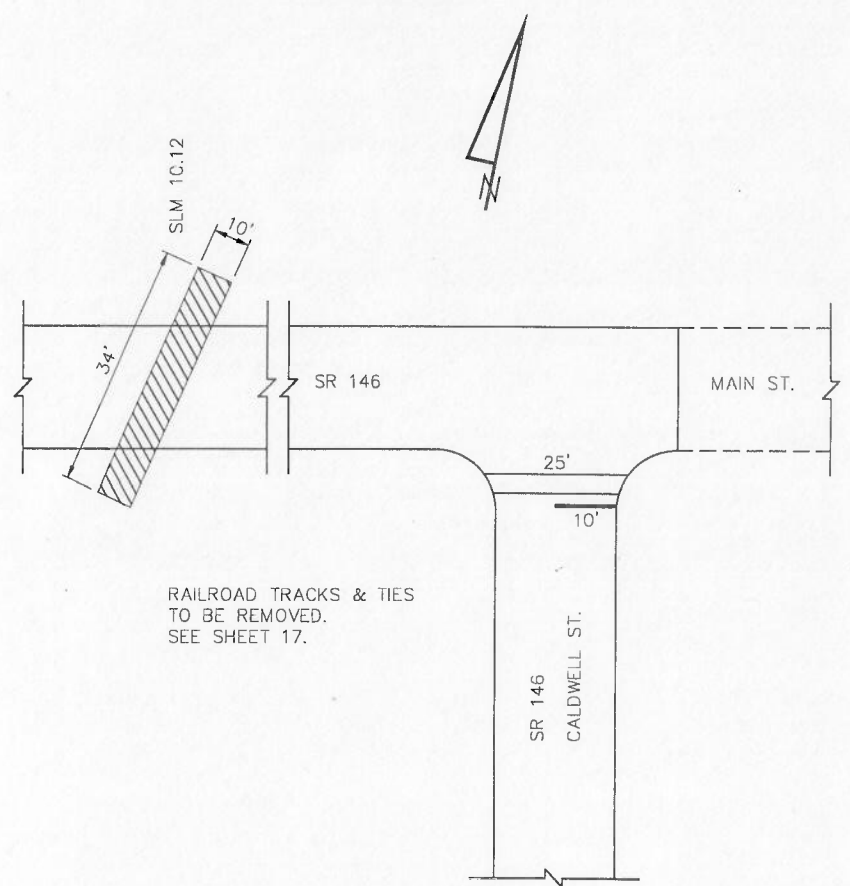


PAVEMENT MARKING  
IN CUMBERLAND (PARTS 2 AND 5)

GUE-83-0.00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

CALC BY	DATE	PLAN NO. 145
CHKD. BY	DATE	

5  
35



PAVEMENT MARKING  
IN PLEASANT CITY (PART 6)



## GENERAL NOTES

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC BY	
DATE	
CHKD BY	PLAN NO.
DATE	

17  
35

### ITEM 202 - RAILROAD CROSSING REMOVED AND PAVEMENT REPLACEMENT

THE EXISTING RAILROAD TRACKS, TIMBERS, AND TIES LOCATED AT SLM 10.12 ON GUE. SR 146 SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. (SEE DETAIL ON THIS SHEET) THE AREA WHERE THE TRACKS AND TIES ARE REMOVED SHALL BE SHAPED AND COMPACTED. ITEM 301, BITUMINOUS AGGREGATE BASE SHALL BE FURNISHED BY THE CONTRACTOR TO FILL THE VOID RESULTING FROM THE REMOVAL OF THE TRACKS AND TIES. THE BITUMINOUS AGGREGATE BASE SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH THE SPECIFICATIONS TO THE LEVEL OF THE EXISTING PAVEMENT PRIOR TO APPLYING ITEM 448 TO THE ROADWAY. THE RAILS, TIMBERS AND TIES THAT ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF BY HIM. PAVEMENT CROSS SLOPES SHALL BE THE SAME AS ADJACENT PAVEMENT. **ONE LANE** TRAFFIC SHALL BE MAINTAINED DURING THE REMOVAL AND REPLACEMENT OPERATION PER STD. DWGS MT-97.10 AND MT-97.11.

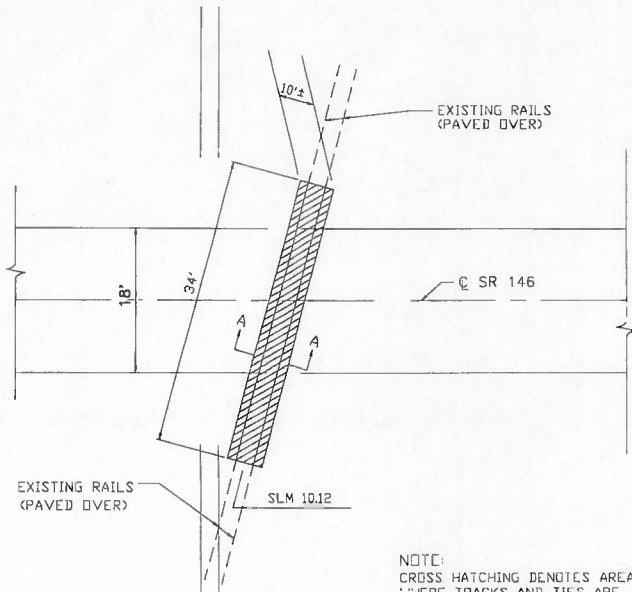
THE COST OF THIS ITEM SHALL INCLUDE REMOVING THE RAILS, TIMBERS AND TIES, SHAPING AND COMPACTING THE AREA, FURNISHING AND PLACING THE BITUMINOUS AGGREGATE BASE, ALL EQUIPMENT, LABOR AND INCIDENTAL ITEMS NECESSARY TO COMPLETE THE ITEM TO THE SATISFACTION OF THE ENGINEER AND SHALL BE PAID FOR AS -

#### ITEM 202 - RAILROAD CROSSING REMOVED AND PAVEMENT REPLACEMENT

ESTIMATED QUANTITIES:

ITEM 203 - SUBGRADE COMPACTION - 38 SQ.YD.

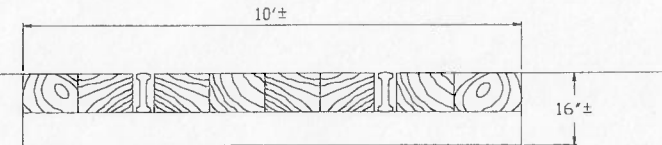
ITEM 301 - BITUMINOUS AGGREGATE BASE - 17 CU.YD.



NOTE:  
 CROSS HATCHING DENOTES AREA  
 WHERE TRACKS AND TIES ARE  
 TO BE REMOVED.

PLAN

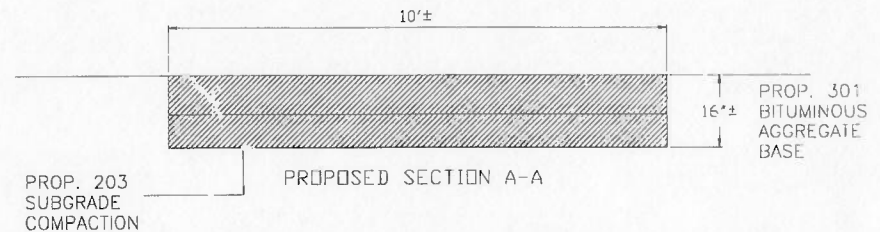
#### RAIL ROAD CROSSING REMOVAL DETAIL



EXISTING SECTION A-A

PLAN

#### RAIL ROAD CROSSING REMOVAL DETAIL



PROPOSED SECTION A-A

# PAVEMENT MARKING SUB-SUMMARY

CALC. BY \_\_\_\_\_  
DATE \_\_\_\_\_  
CHKD. BY \_\_\_\_\_  
DATE \_\_\_\_\_

GUE-83-0.00 CUE-146-0.00  
MUS-146-26.41 CUE-672-0.00

PLAN NO. **145**

644 THERMOPLASTIC

CO.	ROUTE	SIDE	24" TRANSVERSE LINES		STOP LINE 24" LIN.FT.	12" CROSSWALK LINES WHITE LIN.FT.	WORD ON PAVEMENT				LANE ARROWS				RAILROAD SYMBOL ON PAVEMENT EACH	DOTTED LINES		8" CHANNEL LINE LIN.FT.	REMARKS
			WHITE LIN.FT.	YELLOW LIN.FT.			ONLY		SCHOOL		TURN		THRU EACH	COMB. EACH		WHITE LIN.FT.	YELLOW LIN.FT.		
							72"	96"	72"	96"	LEFT EACH	RIGHT EACH							
2	SR 83 IN CUMBERLAND																		
	MILL ST.	RT			16														
	ALLEY	RT			18														PLACE 16' FROM SR 83 CL
	ALLEY	LT			6														PLACE 14' FROM SR 83 CL
	ALLEY	LT			8														PLACE 14' FROM SR 83 CL
	TOOMS RD.	LT			20														PLACE 15' FROM SR 83 CL
2	SR 83 TOTALS				68														PLACE 16' FROM SR 83 CL
3	SR 146 - MUS.CO.																		
	SR 284	RT			21														
	PRIOR RD.	LT			18														PLACE 19' FROM SR 146 CL
	AMBY LANE	LT			13														PLACE 15' FROM SR 146 CL
	NORTH LEEDOM RD.	LT			18														PLACE 16' FROM SR 146 CL
	SOUTH LEEDOM RD.	RT			21														PLACE 17' FROM SR 146 CL
	HIGH FREELAND RD. (CO.RD.63)	RT			10														PLACE 16' FROM SR 146 CL
	HIGH FREELAND RD.	RT			15														PLACE AS DIRECTED
	HERRON RD. (CO.RD.448)	LT			23														PLACE 18' FROM SR 146 CL
	ZION RIDGE RD. (CO.RD.6)	RT			20														PLACE 19' FROM SR 146 CL
	DANA RD. (TWP.RD.214)	LT			11														PLACE 26' FROM SR 146 CL
	WATSON RD. (TWP.RD.206)	LT			17														PLACE 17' FROM SR 146 CL
3	TOTALS				187														PLACE 19' FROM SR 146 CL
4	SR 146 - GUE.CO.																		
	NO NAME RD.	RT			25														
	SR 340	RT			10														PLACE 20' FROM SR 146 CL
	CUMBERLAND																		PLACE 19' FROM SR 146 CL
	HOWELL RD. (CO.RD.19)	LT			19														
	IOWA RD. (TWP.RD.127)	RT			14														PLACE 17' FROM SR 146 CL
	SR 672 - SEE PART 7	RT																	PLACE 16' FROM SR 146 CL
	IOWA RD. (TWP.RD.127)	LT			20														
	TRIPLETT LANE (TWP.RD.3250)	RT			32														PLACE 24' FROM SR 146 CL
	GARVIN SCHOOL RD.(TWP.RD.328)	RT			37														PLACE 15' FROM SR 146 CL
	ON SR 146 SLM 7.52																		PLACE 18' FROM SR 146 CL
	CRANE RUN RD.(CO.RD.26) A	LT			17							2							<del>PLACE 22' FROM SR 146 CL</del>
	CRANE RUN RD.(CO.RD.26) B	LT			28														<del>PLACE 18' FROM SR 146 CL</del>
	ON SR 146 SLM 7.88																		PLACE 22' FROM SR 146 CL
	ON SR 146 SLM 8.37											2							PLACE 18' FROM SR 146 CL
	HICKLE RD.(TWP.RD.326)											2							<del>PLACE 18' FROM SR 146 CL</del>
4	CONTINUED ON NEXT SHEET				17														PLACE 16' FROM SR 146 CL

# PAVEMENT MARKING SUB-SUMMARY

GUE-83-0.00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

CALC. BY	---
DATE	---
CHKD. BY	---
DATE	---
PLAN NO.	145

## 644 THERMOPLASTIC

CO.	ROUTE	SIDE	24" TRANSVERSE LINES		STOP LINE 24" LIN.FT.	12" CROSSWALK LINES		WORD ON PAVEMENT				LANE ARROWS				RAILROAD SYMBOL ON PAVEMENT EACH	DOTTED LINES		8" CHANNEL LINE LIN.FT.	REMARKS
			WHITE LIN.FT.	YELLOW LIN.FT.		WHITE LIN.FT.	ONLY SCHOOL				TURN		THRU EACH	COMB. EACH	WHITE LIN.FT.		YELLOW LIN.FT.			
							72"	96"	72"	96"	LEFT EACH	RIGHT EACH								
4	CONTINUED FROM PREVIOUS SHEET																			
	ON SR 146 SLM 8.97													2						<del>PLACE 16' FROM SR 146 CL</del>
	TWP.RD. 3266	RT			20															PLACE 16' FROM SR 146 CL
	ON SR 146 AT SR 821				40															PLACE 25' FROM SR 146 CL
	ON SR 146 AT SR 821				52															PLACE 21' FROM SR 146 CL
	PLEASANT CITY TWP.RD. 2389	LT			13															PLACE 14' FROM SR 146 CL
4	TOTALS				344									8						
5	SR 146 IN CUMBERLAND																			
	ALLEY	RT				26														
	ALLEY	RT			6															
	ALLEY	LT			6															
	ALLEY	RT			6															
	ALLEY	LT			6															
	CEMETERY ST.	LT			13															
	ALLEY	RT				24														PLACE AS DIRECTED
	ALLEY	LT				24														PLACE AS DIRECTED
	ALLEY	RT				24														PLACE AS DIRECTED
	ALLEY	KT				24														PLACE AS DIRECTED
	ALLEY	RT				24														PLACE AS DIRECTED
	ALLEY	LT				24														PLACE AS DIRECTED
	BROAD ST.	RT				48														PLACE AS DIRECTED
	BROAD ST.	LT				22														PLACE AS DIRECTED
	ALLEY	RT				24														PLACE AS DIRECTED
	ALLEY	LT				24														PLACE AS DIRECTED
	ALLEY	RT				24														PLACE AS DIRECTED
	BANK ST.	LT				24														PLACE AS DIRECTED
	ALLEY	RT				24														PLACE AS DIRECTED
	ALLEY	LT				24														PLACE AS DIRECTED
	ON SR 146 BEFORE SR 340				18															SEE SHEET 16
	SR 340 (CAMBRIDGE ST.)	RT			12	54														SEE SHEET 16
	MAIN ST.	RT			13															
	ON SR 146 AFTER MAIN ST.	RT			12	54														
	ON SR 146 SLM 2.18	RT LANE																		
	NORTH ST.	RT				40														
	NORTH ST.	LT			9															
	ALLEY	RT				24														
	ALLEY	RT				24														
	ALLEY	RT				24														
	ON SR 146 SLM 2.29					40														
5	CONTINUED ON NEXT SHEET																			

12-01-84 (MAINT - C) GUE83PM2

# PAVEMENT MARKING SUB-SUMMARY

GUE-83-0.00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

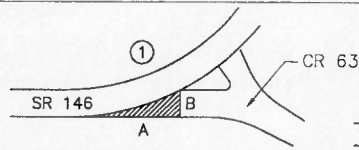
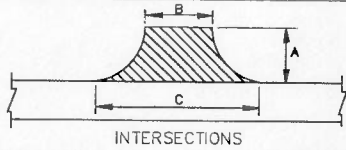
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 CHKD. BY: \_\_\_\_\_  
 PLAN NO. **143**



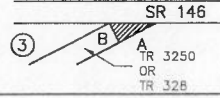
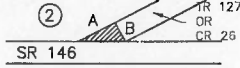
644 THERMOPLASTIC

PART	ROUTE	SIDE	24" TRANSVERSE LINES		STOP LINE 24" LIN.FT.	12" CROSSWALK LINES WHITE LIN.FT.	WORD ON PAVEMENT				LANE ARROWS				RAILROAD SYMBOL ON PAVEMENT EACH	DOTTED LINES		8" CHANNEL LINE LIN.FT.	REMARKS
			WHITE LIN.FT.	YELLOW LIN.FT.			ONLY SCHOOL		TURN		THRU EACH	COMB. EACH	WHITE LIN.FT.	YELLOW LIN.FT.					
							72" EACH	96" EACH	72" EACH	96" EACH						LEFT EACH	RIGHT EACH		
5	CONTINUED FROM PREVIOUS SHEET																		
	ALLEY	RT				24													
	ALLEY	RT				40													
	ON SR 146 SLM 2.37	RT LANE																	
	ALLEY	RT				24													
	WALNUT ST.	RT			12														PLACE 16' FROM SR 146 CL
	ALLEY	RT			10														PLACE 16' FROM SR 146 CL
	MAPLE ST.	RT			15														PLACE 17' FROM SR 146 CL
	SINGER ST.	LT			22														PLACE 19' FROM SR 146 CL
	STREET(NO SIGN)	RT			14														PLACE 19' FROM SR 146 CL
5	SR 146 TOTALS				174	732													
6	SR 146 IN PLEASANT CITY ON SR 146 @ MAIN ST.				10	50													SEE SHEET 16
7	SR 672 - GUE. CO. ON SR 672 @ SR 146				15														
	GARVIN SCHOOL RD(TWP.RD.235)	LT			18														PLACE AS DIRECTED
	GARVIN SCHOOL RD(TWP.RD.235)	RT			21														PLACE 20' FROM SR 672 CL
	CORWIN RD.(TWP.RD.234)	RT			16														PLACE 17' FROM SR 672 CL
	WARHEIM RD.(TWP.RD.322)	RT			15														PLACE 20' FROM SR 672 CL
7	SR 672 TOTALS				85														PLACE 16' FROM SR 672 CL
8	SR 672-NOB. CO. ON SR 672 @ SR 821				20														PLACE AS DIRECTED
8	SR 672 TOTAL				20														

12-01-94 (MAINT - C) GUEB3PM3



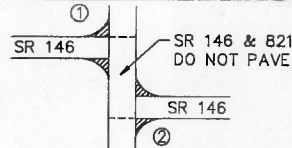
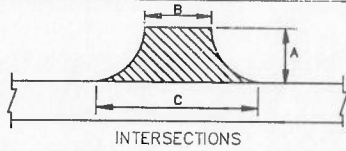
EXTRA AREAS



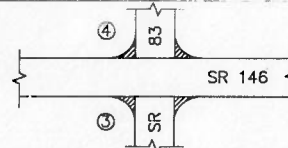
GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

DATE: \_\_\_\_\_  
 CHKD. BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PLAN NO. 145

PART	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ. YD.	PROPOSED ITEMS						
					A IN FEET	B IN FEET	C IN FEET		407		ASPHALT CONCRETE		EXISTING SURFACE	408	
									TACK COAT @ 0.05 gal./s.y.	COVER AGGR. @ 1 lbs./s.y. TON	THICK INCHES	CU. YD.			THICK INCHES
2	SR 83	IN CUMBERLAND	RT	MILL ST.	20	19	45	71	4	1	2	2	1	PAVED	
			RT	ALLEY	15	13	18	26		1	1	1	1	GRAVEL	10
			LT	ALLEY	10	12	16	16	1	1	1	1	1	PAVED	
			RT	ONE WAY ALLEY	15	11	24	29		1	1	1	1	GRAVEL	12
			LT	ALLEY	15	11	25	30		1	1	1	1	GRAVEL	12
			LT	TOOMS RD.	40	14	70	187	9	1	5	5	1	PAVED	
2	SR 83	TOTALS		CARRIED TO SHEET 24				359	14		11	11			34
3	SR 146	MUS. CO.	RT	SR 284	25	27	72	138	7	1	4	4	1	ASPH.	
			LT	PRIOR RD.	30	20	60	133	7	1	4	4	1	ASPH.	
			LT	AMBY LANE	25	13	50	88	4	1	2	2	1	ASPH.	
			LT	NORTH LEEDOM RD.	30	17	73	150	8	1	4	4	1	ASPH.	
			RT	SOUTH LEEDOM RD.	34	14	66	151	8	1	4	4	1	ASPH.	
			RT	HIGH FREELAND RD.(CO.RD.63) ①	135	24		180	9	1	5	5	1	ASPH.	
			RT	HIGH FREELAND RD.	30	14	60	123	6	1	3	3	1	ASPH.	
			LT	HERRON RD.(CO.RD.448)	40	22	82	231	12	1	6	6	1	ASPH.	
			RT	ZION RIDGE RD.(CO.RD.61)	50	22	100	339	17	1	9	9	1	ASPH.	
			LT	DANA RD.(TWP.RD.214)	25	15	50	90	5	1	3	3	1	ASPH.	
			LT	WATSON RD.(TWP.RD.206)	30	16	72	147	7	1	4	4	1	ASPH.	
3	SR 146	TOTALS		CARRIED TO SHEET 25				1770	90		48	48			
4	SR 146	CUE. CO.	RT	NO NAME RD.	45	20	86	265	13	1	7	7	1	ASPH.	
			RT	SR 340	75	19	125	600	30	1	17	17	1	ASPH.	
				CUMBERLAND										ASPH.	
			LT	HOWELL RD.(CO.RD.19)	35	20	83	200	10	1	6	6	1	ASPH.	
			RT	IOWA RD.(TWP.RD.127)	32	16	53	123	6	1	3	3	1	ASPH.	
			RT	SR 672 SEE PART 7											
			LT	IOWA RD.(TWP.RD.127) ②	51	86		244	12	1	7	7	1	ASPH.	
			RT	TRIPLETT LANE(TWP.RD.3250) ③	22	73		89	4	1	2	2	1	ASPH.	
			RT	GARVIN SCHOOL RD(TWP.RD.328) ③	31	99		171	9	1	5	5	1	ASPH.	
			LT	CRANE RUN RD.(CO.RD.26)	40	17	84	224	11	1	6	6	1	ASPH.	
			LT	CRANE RUN RD.(CO.RD.26) ②	31	96		165	8	1	5	5	1	ASPH.	
			LT	HICKLE RD.(TWP.RD.326)	27	15	51	99	5	1	3	3	1	ASPH.	
4	SR 146	CONTINUED ON NEXT SHEET													



EXTRA AREAS



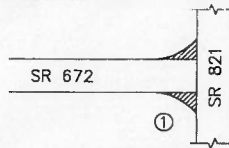
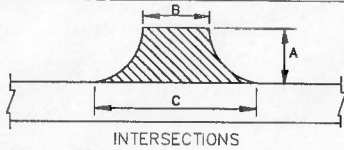
GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

DATE: \_\_\_\_\_  
 CHKD. BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PLAN NO. **45**

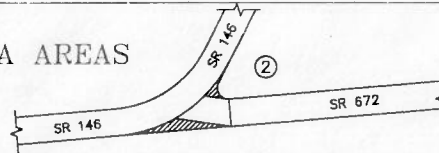
22  
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PART	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ. YD.	PROPOSED ITEMS					EXISTING SURFACE	PAVEMENT PLANING, BITUMINOUS SQ. YD.	
					A IN FEET	B IN FEET	C IN FEET		407		ASPHALT CONCRETE		THICK INCHES			
									TACK COAT @ 0.05 gal./s.y.	COVER AGGR. @ 1 lbs./s.y. TON	CU. YD. INTERMEDIATE COURSE, TYPE 1, AC-20	CU. YD. SURFACE COURSE, TYPE 1, AC-20				
4	SR 146	GUC. CO.		CONTINUED FROM PREVIOUS SHEET												
			RT	TWP.RD.3266	29	17	61	126	6		1	4	4	1	ASPH.	
				SR 146 @ SR 821 (1)	75	24	112	367	18		1	10	10	1	ASPH.	
				SR 146 @ SR 821 (2)	85	24	110	406	20		1	11	11	1	ASPH.	
				PLEASANT CITY												
			LT	TWP.RD.2389	22	18	50	83	4		1	2	2	1	ASPH.	
4	SR 146	TOTALS		CARRIED TO SHEET 25				3162	156			88	88			
5	SR 146	IN CUMBERLAND														
			RT	ALLEY	12	12	20	21	1		1	1	1	1	BRICK	
			RT	ALLEY	17	12	19	29	1		1	1	1	1	BRICK	
			LT	ALLEY	17	12	19	29	1		1	1	1	1	ASPH.	29
			RT	ALLEY	17	12	19	29	1		1	1	1	1	BRICK	
			LT	ALLEY	17	10	19	27	1		1	1	1	1	ASPH.	27
			LT	CEMETERY ST.	18	20	35	55	3		1	2	2	1	BRICK	
			RT	CHURCH ST.(SR 83) (3)	20	22	58	40	2		1	1	1	1	ASPH.	40
			LT	CHURCH ST.(SR 83) (4)	20	25	55	33	2		1	1	1	1	ASPH.	33
			RT	ALLEY	21	12	18	35	2				1	1	ASPH.	35
			LT	ALLEY	19	12	18	32	2				1	1	ASPH.	32
			RT	ALLEY	25	12	20	44	2				1	1	ASPH.	44
			LT	ALLEY	17	12	19	29	1				1	1	ASPH.	29
			RT	ALLEY	19	12	20	34	2				1	1	ASPH.	34
			RT	AREA ADJACENT TO ALLEY	10	21	21	23	1				1	1	ASPH.	23
			LT	ALLEY	18	12	24	36	2				1	1	ASPH.	36
			RT	ALLEY	19	12	19	33	2				1	1	ASPH.	33
			LT	ALLEY	19	12	20	34	2				1	1	ASPH.	34
			RT	ALLEY	19	12	19	33	2				1	1	ASPH.	33
			RT	BROAD ST.	18	24	43	67	3		1	2	2	1	ASPH.	67
			LT	BROAD ST.	15	13	32	38	2		1	1	1	1	ASPH.	38
			RT	ALLEY	20	12	20	36	2				1	1	ASPH.	36
			LT	ALLEY	20	12	19	34	2				1	1	ASPH.	34
			RT	ALLEY	19	12	21	35	2				1	1	ASPH.	35
			LT	BANK ST.	18	12	20	32	2				1	1	ASPH.	32
			RT	ALLEY	19	12	20	34	2				1	1	ASPH.	34
			LT	ALLEY	19	12	20	34	2				1	1	ASPH.	34
			RT	SR 340(CAMBRIDGE ST.)	30	21	55	127	6		1	4	4	1	ASPH.	127
			RT	MAIN ST.	25	30	50	111	6		1	3	3	1	ASPH.	111
5	SR 146	IN CUMBERLAND		CONTINUED ON NEXT SHEET												

12-01-94 (MAINT - C) GUE83EA2



EXTRA AREAS



GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CHD. BY	DATE	PLAN NO. <b>145</b>
CHD. BY	DATE	

P A R T	ROUTE	LOG POINT TO LOG POINT	SIDE	DESCRIPTION	INTERSECTIONS			AREA IN SQ. YD.	PROPOSED ITEMS									
					A IN FEET	B IN FEET	C IN FEET		407		ASPHALT CONCRETE			EXISTING SURFACE	254 PAVEMENT PLANING, BITUMINOUS SQ. YD.	408 BITUMINOUS PRIME COAT @ 0.40 GAL./S. Y. GAL.		
									TACK COAT @ 0.05 gal./s. y. GAL.	COVER AGGR. @ 1 lbs./s. y. TON	THICK INCHES	CU. YD.					THICK INCHES	
5	SR 146	IN CUMBERLAND		CONTINUED FROM PREVIOUS SHEET														
			RT	NORTH ST.	10	20	23	24	1		1	1	1	1	ASPH.			
			LT	NORTH ST.	15	13	24	31	2		1	1	1	1	BRICK			
			RT	ALLEY	10	12	16								BRICK			
			RT	ALLEY	10	12	16								BRICK			
			RT	ALLEY	10	12	16								BRICK			
			RT	ALLEY	10	12	16								BRICK			
			RT	ALLEY	10	20	28								BRICK			
			RT	ALLEY	8	12	16	12	1		1	1	1	1	ASPH.			
			RT	WALNUT ST.	30	11	39	83	4		1	2	2	1	ASPH.			
			RT	ELM ST.	12	13	30	29			1	1	1	1	GRAVEL			12
			RT	MAPLE ST.	40	11	50	136	7		1	4	4	1	ASPH.			
			LT	SINGER ST.	35	16	72	171	9		1	5	5	1	ASPH.			
			RT	CARL STREET	33	18	43	112	6		1	3	3	1	ASPH.			
5	SR 146	TOTALS		CARRIED TO SHEET 26				1742	89			37	53				1010	12
6	SR 146	IN PLEASANT CITY																
			LT	MAIN ST.	22	29	42	87	4		1	2	2	1	ASPH.			
				CARRIED TO SHEET 26														
7	SR 672	GUE. CO.		SR 672 @ SR 146 (2)	75	20	105	354	18		1	10	10	1	ASPH.			
			LT	GARVIN SCHOOL RD. (TWP. RD. 235)	32	21	61	146	7		1	4	4	1	ASPH.			
			RT	GARVIN SCHOOL RD. (TWP. RD. 235)	28	20	52	112	6		1	3	3	1	ASPH.			
			RT	CORWIN RD. (TWP. RD. 234)	32	18	57	133	7		1	4	4	1	ASPH.			
			RT	WAREHEIM RD. (TWP. RD. 322)	27	15	48	95	5		1	3	3	1	ASPH.			
7	SR 672	TOTALS		CARRIED TO SHEET 26				840	43			24	24					
8	SR 672	NOBLE CO.		SR 672 @ SR 821 (1)	57	24	106	260	13		1	7	7	1	ASPH.			
				CARRIED TO SHEET 27														

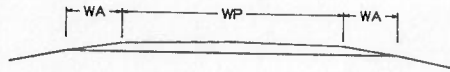
### ASPHALT CONCRETE

GUE-83-0.00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

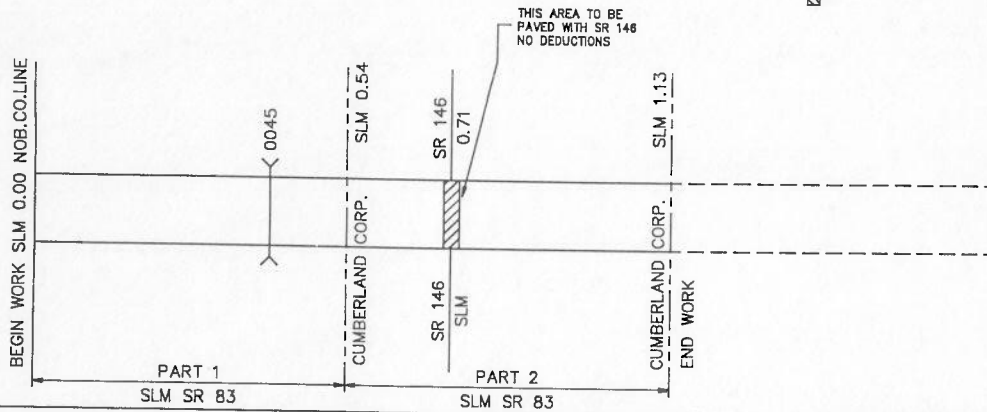
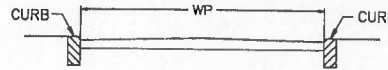
CHKD. BY: _____	PLAN NO. <b>145</b>
DATE: _____	

24  
35

TYPICAL 1



TYPICAL 2



### BRIDGE DEDUCTIONS

PART 1

GUE-83-0045 93.5' x 28' SEE SHEET 31

PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT				408 BITUMINOUS PRIME COAT GAL.	202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN EACH	614 TEMPORARY CENTER LINE, CLASS II MILE
			MILES	LIN. FT.					407		ASPHALT CONCRETE				
									TACK COAT @ 0.05 gal./s.y. GALS.	COVER AGGR. lbs./s.y. TONS	ITEM 448 THICK INCHES	INTERMEDIATE COURSE, TYPE 1, AC-20 CU.YD.			
1	SR 83	0.00 - 0.54	0.54	2851	20	1	404	6336	317	1	176	1	176	53	1.08
		EXTRA TACK COAT FOR LONGITUDINAL JOINT DEDUCT FOR BRIDGE (1)						(208)	8		(6)		(6)		
1	SR 83	TOTALS	0.54	2851				6128	315		170		170	53	1.08
2	SR 83	0.54 - 0.64	0.10	528	20(2)	1	404	1173	59	1	33	1	33		0.20
		0.64 - 0.71	0.07	370	21(2)	2	404	863	43	1	24	1	24		0.14
		0.71 - 1.13	0.42	2218	20(2)	1	404	4929	246	1	137	1	137		0.84
		EXTRA AREAS FROM SHEET 21						359	14		11		11	34	
		EXTRA TACK COAT FOR LONGITUDINAL JOINT							9						
2	SR 83	TOTALS	0.59	3116				7324	371		205		205	34	1.18

12-01-94 (MAINT - C) GUEB33ACT



TYPICAL 1

ASPHALT CONCRETE

TYPICAL 2

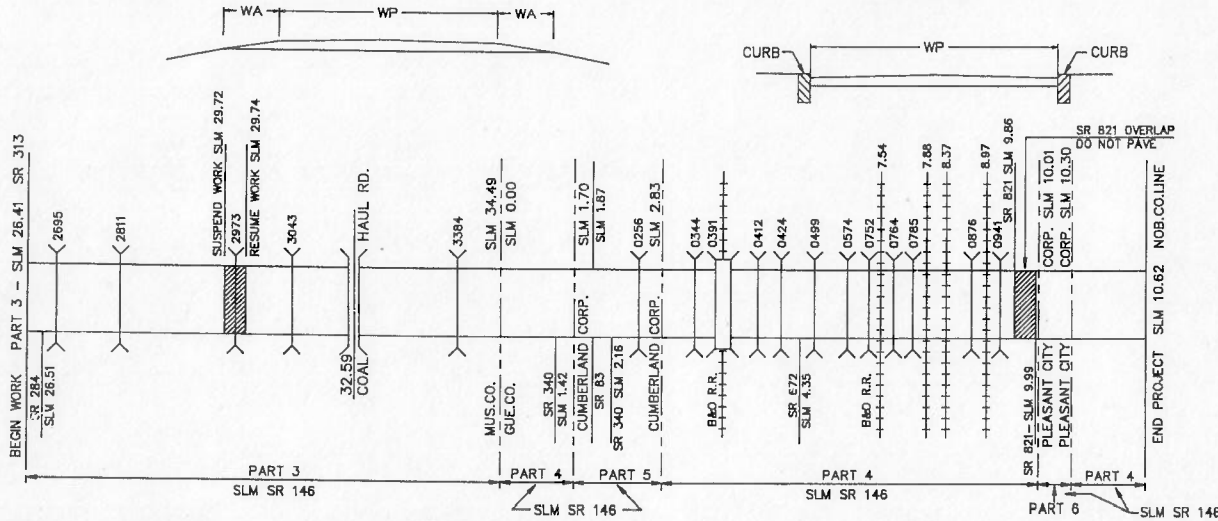
GUE-83--0.00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

DATE: \_\_\_\_\_  
CHKD. BY: \_\_\_\_\_  
DATE: \_\_\_\_\_  
PLAN NO. **145**

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BRIDGES

PART 3		
MUS-146-2695	116.42'X 34.0'	SEE SHEET 31
MUS-146-2811	22.33'X 30.0'	SEE SHEET 31
MUS-146-3043	29.17'X 23.08'	SEE SHEET 31
MUS-146-3384	22.50'X 34.0'	SEE SHEET 31
PART 4		
GUE-146-0344	22.33'X 28.0'	SEE SHEET 31
GUE-146-0391	50.43'X 23.4'	SEE SHEET 31
GUE-146-0412	95.18'X 27.5'	SEE SHEET 32
GUE-146-0424	22.50'X 19.33'	SEE SHEET 32
GUE-146-0499	10.33'X 24.0'	SEE SHEET 32
GUE-146-0574	10.83'X 24.88'	SEE SHEET 32
GUE-146-0752	57.42'X 28.17'	SEE SHEET 32
GUE-146-0764	14.83'X 24.0'	SEE SHEET 32
GUE-146-0785	33.25'X 25.7'	SEE SHEET 32
GUE-146-0876	16.0'X 25.5'	SEE SHEET 32
GUE-146-0941	31.1'X 30.0'	SEE SHEET 32
PART 5		
GUE-146-0256	20.0'X 28.0'	SEE SHEET 32
PART 6		
GUE-146-1002	61.5'X 24.0'	SEE SHEET 32



PART	ROUTE	LOG POINT TO LOG POINT	(1) FIELD MEASURED		(2) BRIDGE LENGTH x PAVEMENT WIDTH		PAVEMENT DATA												
			MILES	LIN. FT.	WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	407 PROPOSED PAVEMENT				202 WEARING COURSE REMOVED (@ RAILROAD CROSSINGS)	202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN	614 TEMPORARY CENTER LINE, CLASS II	254 PAVEMENT PLANING BITUMINOUS			
									TACK COAT @ 0.05 gal./s.y. GALS.		COVER AGGR. lbs./s.y. TONS						ASPHALT CONCRETE		
			THICK INCHES	COURSE, TYPE 1, AC-20 CU. YDS.	THICK INCHES	COURSE, TYPE 1, AC-20 CU. YDS.	SQ. YD.	EACH	MILE	SQ. YD.									
3	SR 146	26.41 - 26.56	0.15	792	29	2	404	2552	128		1	71	1	71			0.30	2552	
		26.56 - 29.72	3.16	16685	20	1	404	37078	1854		1	1030	1	1030			6.32		
		29.74 - 34.49	4.75	25080	20	1	404	55733	2787		1	1548	1	1548			9.50		
		EXTRA AREAS FROM SHEET 21						1770	90										
		EXTRA TACK COAT FOR LONGITUDINAL JOINT DEDUCT FOR BRIDGE						(423)	(21)										
3	SR 146	TOTALS	8.06	42557			96710	4937			2685	2685	760	16.12		2552			
4	SR 146	0.00 - 1.70	1.70	8976	20	1	404	19947	997		1	554	1	554			3.41	139*	
		2.83 - 4.35	1.52	8026	22	1	404	19619	981		1	545	1	545			3.04		
		4.35 - 9.86	5.51	29093	18	1	404	58186	2909		1	1616	1	1616	700		11.02		
		9.99 - 10.01	0.02	107	18	1	404	214	11		1	6	1	6			0.04		
		10.30 - 10.62	0.32	1690	18	1	404	3380	169		1	94	1	94			0.64		
		EXTRA AREAS FROM SHEET 22						3162	156										
EXTRA TACK COAT FOR LONGITUDINAL JOINT DEDUCT FOR BRIDGE						(813)	(41)												
4	SR 146	TOTALS	9.07	47892			103695	5323			2880	2880	700	1146	18.15	139			

12-01-94 (MAINT - C) GUEB3AC2

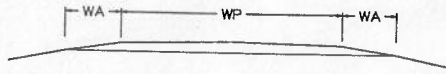
### ASPHALT CONCRETE

GUE-83-0.00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

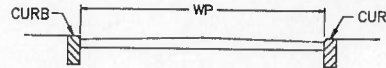
SCALE BY: _____	DATE: _____
DRAWN BY: _____	PLAN NO. <b>145</b>

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35

TYPICAL 1



TYPICAL 2



BEGIN WORK PART 7 SLM 0.00 - SR 146

PART 7  
SLM SR 672

PART 8  
SLM SR 672

BRIDGES

PART 7

GUE-672-0236 16.0'X 19.83' SEE SHEET 33

(1) BRIDGE LENGTH x PAVEMENT WIDTH

PAVEMENT DATA

PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT				202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN	614 TEMPORARY CENTER LINE, CLASS II	254 PAVEMENT PLANING, BITUMINOUS	408 BITUMINOUS PRIME COAT @ 0.40 GAL/S.Y.			
			MILES	LIN. FT.					407 ASPHALT CONCRETE										
									TACK COAT @ 0.05 gal./s.y. GALS.	COVER AGGR. lbs./s.y. TONS	ITEM 448 THICK INCHES	INTERMEDIATE COURSE, TYPE 1, AC-20 CU.YD.					ITEM 44B THICK INCHES	SURFACE COURSE, TYPE 1, AC-20 CU.YD.	
5	SR 146	1.70 - 2.16	0.46	2429	30	2	404	8097	405	1	225	1	225	FACH	MILE	SQ.YD.	GAL		
		2.16 - 2.44	0.28	1478	20	2	404	3284	164	1	91	1	91					1.38	8097
		2.44 - 2.83	0.39	2059	22	1	404	5033	252	1	140	1	140					0.84	3284
		EXTRA AREAS FROM SHEET 23						1742	89	1	140	1	140					1.17	117*
		EXTRA TACK COAT FOR LONGITUDINAL JOINT DEDUCT FOR BRIDGE (1)						(49)	(2)	(1)	(1)								
		TOTALS	1.13	5966			18107	922		492		508		3.39	12508	12			
6	SR 146	10.01 - 10.30	0.29	1531	18	1	404	3062	153	1	85	1	85	FACH	MILE	SQ.YD.	GAL		
		EXTRA AREAS FROM SHEET 23						87	4	2	2							0.58	
		EXTRA TACK COAT FOR LONGITUDINAL JOINT DEDUCT FOR BRIDGE (1)						(123)	(6)	(3)	(3)								
		TOTALS	0.29	1531				3026	155		84		84						0.58
7	SR 672	0.00 - 2.76	2.76	14573	21	1	404	34003	1700	1	944	1	944	FACH	MILE	SQ.YD.	GAL		
		EXTRA AREAS FROM SHEET 23						840	43	24	24							420	5.52
		EXTRA TACK COAT FOR LONGITUDINAL JOINT DEDUCT FOR BRIDGE (1)						(36)	(2)	(1)	(1)								
		TOTALS	2.76	14573				34807	1775		967		967						420

12-01-94 (MANT - C) GUEB3AC3

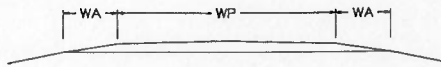
## ASPHALT CONCRETE

CUE-83-0.00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

DATE	
CHKD. BY	
DATE	
PLAN NO.	145

27
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TYPICAL 1



PAVEMENT DATA

PART	ROUTE	LOC POINT TO LOG POINT	LENGTH		WP FEET	TYPICAL	EXISTING TYPE PAVEMENT	PAVEMENT AREA SQ. YDS.	PROPOSED PAVEMENT				202 RAISED PAVEMENT MARKERS REMOVED FOR STORAGE, AS PER PLAN	514 TEMPORARY CENTER LINE, CLASS II			
			MILES	LIN. FT.					407		ASPHALT CONCRETE						
									TACK COAT @ 0.05 gal./s.y.	COVER AGGR. lbs./s.y. TONS	ITEM 44B	ITEM 44B					
									THICK INCHES	INTERMEDIATE COURSE, TYPE 1, AC-20 CU.YDS.	THICK INCHES	SURFACE COURSE, TYPE 1, AC-20 CU.YDS.					
	NOB. CO.																
B	SR 672	0.00 - 0.37	0.37	1954	20	1	404	4342	217	1	121	1	121				0.74
	EXTRA AREAS FROM SHEET 23							260	13				7				
	EXTRA TACK COAT FOR LONGITUDINAL JOINT								6								
B	SR 672	TOTALS	0.37	1954				4602	236		128		128				0.74

12-01-94 (MAINT - C) CUEB3AC4

## PAVED SHOULDERS

GUE-83-C 00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

CALL BY _____	
DATE _____	
CHKD. BY _____	PLAN NO. <b>145</b>
DATE _____	

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**\* NOTES**

**1. ITEM 203 LINEAR GRADING:**

THIS WORK SHALL CONSIST OF PREPARING A SUBGRADE FOR THE SHOULDER PAVING BY EXCAVATING THE EXISTING SHOULDER MATERIAL TO THE DEPTH SHOWN ON THE PLAN, OR AS DIRECTED BY THE ENGINEER TO REMOVE ANY UNSTABLE MATERIAL AND BY SHAPING AND COMPACTING THE SUBGRADE. THE UNSOUND OR BROKEN EDGE OF BITUMINOUS PAVEMENTS SHALL FIRST BE TRIMMED TO A LINE ESTABLISHED BY THE ENGINEER. THE EXISTING SHOULDER THEN SHALL BE EXCAVATED AND THE SUBGRADE SHAPED AND COMPACTED. COMPACTION SHALL BE CARRIED OUT TO THE SATISFACTION OF THE ENGINEER BY MEANS OF TRENCH ROLLER, 401.11. AREAS GRADED IN EXCESS OF DEPTHS SPECIFIED OR DIRECTED BY THE ENGINEER SHALL BE BACKFILLED TO DESIRED GRADE USING 617 COMPACTED AGGREGATE AT THE CONTRACTOR'S EXPENSE. EXCAVATION MATERIAL SHALL BE DISPOSED OF AS INDICATED IN THE PLAN.

- A. USED TO BACK UP SHOULDERS WHERE REQUIRED; THE BALANCE TO BE DISPOSED OF AS DIRECTED BY THE ENGINEER.
- B. DISPOSED OF BY THE CONTRACTOR AT HIS OWN RESPONSIBILITY OUTSIDE THE LIMITS OF THE RIGHT OF WAY.
- C. WASTED ADJACENT TO THE PAVEMENT AND WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.

**2. ITEM 301 BITUMINOUS AGGREGATE BASE:**

PRIOR TO PLACING A BITUMINOUS MIXTURE FOR SHOULDER PAVING, THE EDGE OF THE EXISTING PAVEMENT, FOR THE FULL DEPTH OF THE TRENCH, SHALL BE COATED WITH BITUMINOUS MATERIAL IN ACCORDANCE WITH 401.12.

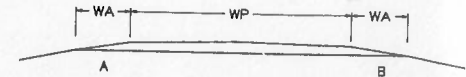
**3. ITEM 617 COMPACTED AGGREGATE:**

A QUANTITY OF ITEM 617 COMPACTED AGGREGATE HAS BEEN PROVIDED FOR AREAS WHERE THE SHOULDERS WERE LOW PRIOR TO GRADING AND/OR LOW AREAS CAUSED BY REMOVAL OF UNSUITABLE MATERIAL.

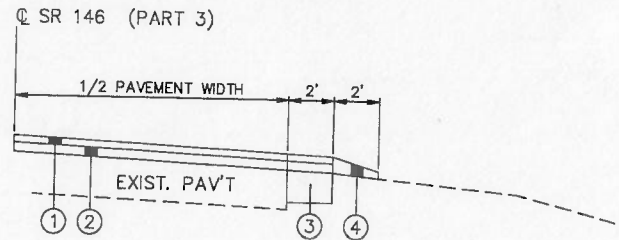
**4. ITEM 408 BITUMINOUS PRIME COAT:**

AFTER APPLICATION OF THE PRIME COAT, NO FURTHER TREATMENT SHALL BE PERFORMED UNTIL SO DIRECTED BY THE ENGINEER.

TYPICAL 1



LINEAR GRADING DETAIL



- ① ITEM 448-1" ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20
- ② ITEM 448-1" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, AC-20
- ③ ITEM 203/301-6" LINEAR GRADING AND BITUMINOUS AGGREGATE BASE
- ④ ITEM 617-COMPACTED AGGREGATE, TYPE A, AS PER PLAN

PAVED SHOULDER DATA

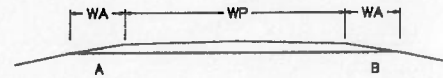
PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		TYPICAL	PROPOSED WIDTH (FT.)				SHOULDER AREA SQ.YDS.	448 ASPHALT CONCRETE				301 BITUMINOUS AGGREGATE BASE		407 TACK COAT	407 TACK COAT	203 LINEAR GRADING	617 COMPACTED AGGREGATE		WATER M GALS.	NOTES	
			MILES	LIN.FT.		A	B	C	D		THICK	INTERMEDIATE COURSE, TYPE 1, AC-20	THICK	SURFACE COURSE TYPE 1, AC-20	AVG. THICK	CU.YDS.	CU.YDS.	GALS.	GAL.	WIDTH 2.0' DEPTH 6"	CU.YDS.			SOQ.YDS.
											INCHES	CU.YD.	INCHES	CU.YD.	INCHES	CU.YDS.	@.05... gal./s.y.	FOR FACE OF TRENCH @ 0.25 GAL/S.Y.	STA.					
1	SR 83	0.00-0.54	0.54	2851	1	1	1			634	1	18	1	18			32				88		1	
2	SR 83	0.54-0.64	0.10	528	1	1	1			117	1	3	1	3			6				16			
		0.71-1.13	0.42	2218	1	1	1			493	1	14	1	14			25				68		1	
2	SR 83	TOTALS	0.52	2746						610		17		17			31				84		1	
3	SR 146	26.56-29.72	3.16	16685	1	2	2			7416	1	206	1	206	6.0	1236		463		334	515		5	
		29.74-34.49	4.75	25080	1	2	2			11147	1	310	1	310	6.0	1858		697		502	774		7	
3	SR 146	TOTALS	7.91	41765						18563		516		516		3094		1160		836	1289		12	

PAVED SHOULDERS

GUE-83-0 00  
MUS-146-26.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

DATE:	
CHKD. BY:	PLAN NO.
DATE:	

TYPICAL 1



PAVED SHOULDER DATA

PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		TYPICAL	PROPOSED WIDTH (FT.)				SHOULDER AREA SQ.YDS.	448 ASPHALT CONCRETE				501 BITUMINOUS AGGREGATE BASE		407 TACK COAT	407 TACK COAT	203 LINEAR GRADING	617 COMPACTED AGGREGATE SHOULDER PREPARATION		WATER M GALS.	NOTES
			MILES	LIN.FT.		A	B	C	D		THICK INCHES	INTERMEDIATE COURSE, TYPE 1, AC-20 CU.YD.	THICK INCHES	SURFACE COURSE TYPE 1, AC-20 CU.YD.	AVG. THICK INCHES	CU.YDS.	@ 0.05 gal./s.y.	FOR FACE OF TRENCH @ 0.25/GAL SQ.YD. GAL.	WIDTH 2.0' DEPTH 6" MILE	TYPE A AS PER PLAN 2'X 2.5" AVER. THICKNESS TO BACK UP PAVED BERM CU.YDS.	SQ.YDS.		
4	SR 146	0.00-1.70	1.70	8976	1	2	2			3989	1	111	1	111			199			277		3	
		2.83-4.35	1.52	8026	1	1	1			1783	1	50	1	50			89			248		2	
4	SR 146	TOTALS	3.22	17002						5772		161		161			288			525		5	
5	SR 146	2.44-2.83	0.39	2059	1	1	1			458	1	13	1	13			23			64		1	

01-11-95 (MAINT - C) GUEB3PS2

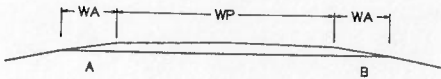
# SHOULDER TREATMENT

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

CALC. BY _____	DATE _____
CHKD. BY _____	PLAN NO. <b>145</b>
DATE _____	

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TYPICAL 1



TYPICAL 2



TYPICAL 3



PART	ROUTE	LOG POINT TO LOG POINT	LENGTH		TYPICAL	EXISTING TYPE - WIDTH (FT.)								AREA SQ. YDS.	SHOULDER PREPARATION SQ. YD.	617 COMPACTED AGGREGATE TYPE A AS PER PLAN 2.5" THICK CU. YD.	617 WATER M GAL.
			MILES	LIN. FT.		A		B		C		D					
						TYPE	WIDTH	TYPE	WIDTH	TYPE	WIDTH	TYPE	WIDTH				
4	SR 146	4.35-9.86	5.51	29093	1	617	2	617	2					12930			
		9.99-10.01	0.02	107	1	617	2	617	2					47			
		10.30-10.62	0.32	1690	1	617	2	617	2					751			
4	SR 146	TOTALS	5.85	30890										13728			
6	SR 146	10.01-10.30	0.29	1531	1	617	2	617	2					680			
		GUE.															
7	SR 672	0.00-2.76	2.76	14573	1	617	2	617	2					6477			
8	SR 672	NOB.															
		0.00-0.37	0.37	1954	1	617	2	617	2					868			

12-01-94 (MAINT - C) GUEB35T

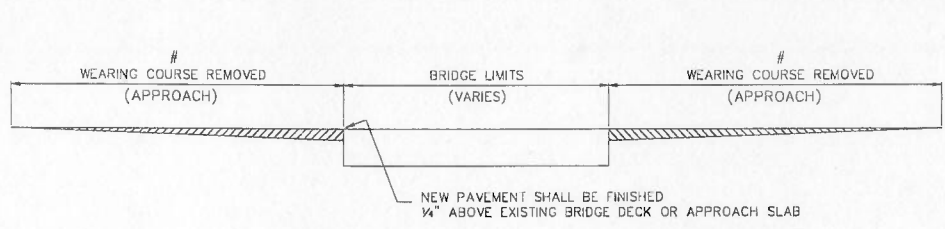
BRIDGE DECK TREATMENT

GUE-83-0.00  
MUS-146-16.41  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

CALC. BY	
DATE	
CHKD. BY	
DATE	
PLAN NO.	745

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PART	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS) LIN.FT.	WIDTH LIN.FT.	BRIDGE DECK AREA SQ.YDS.	BRIDGE DECK DATA				* INCLUDES PAVED BERM									
					WEARING COURSE REMOVED DEPTH 2" " THICK OVERLAY	BRIDGE DECK REPAIR			PATCHING		SPECIAL		ASPHALT CONCRETE				407 TACK COAT @ 0.05 GAL./SQ.YD.	202 WEARING COURSE REMOVED, (APPROACHES) SQ.YD.
						WEARING COURSE REMOVED DEPTH 2" " THICK OVERLAY	VARIABLE THICKNESS OVERLAY CU.YDS.	FULL-DEPTH REPAIR CU.YDS.	STEEL DRIP STRIP	DECK WATERPROOFING		44B INTERMEDIATE COURSE, TYPE 1, AC-20 THICK	44B SURFACE COURSE, TYPE 1, AC-20 THICK					
										MEMBRANE WATERPROOFING SHEET TYPE 1 SQ.YDS.	MEMBRANE WATERPROOFING SQ.YDS.			INCH	CU.YD.	INCH		
1	GUE-83-0045	93.5	28.0	290.89		DO NOT COVER - SEE DETAIL BELOW											214*	
3	MUS-146-2695	116.42	34.0	439.96		DO NOT COVER - SEE DETAIL BELOW											233*	
	MUS-146-2811	22.33	30.0	74.43		DO NOT COVER - SEE DETAIL BELOW											233*	
	MUS-146-2973	104.53				DO NOT COVER - SEE SHEET 25											233*	
	MUS-146-3043	29.17	23.08	74.80							1	2	1	2	4			
	MUS-146-3384	22.50	34.0	85.0		DO NOT COVER - SEE DETAIL BELOW											233*	
3	TOTALS											2		2	4		932	
4	GUE-146-0344	22.33	28.0	69.47		DO NOT COVER - SEE DETAIL BELOW											233*	
	GUE-146-0391	50.43	23.4	131.12	131.12	SEE DETAIL SHT. 32						1	3	1	4	7	267*	
4	CONTINUED ON NEXT SHEET																	



#	GUE-83-0045	-- 43.75'	#	GUE-146-0344	-- 43.75'	#	GUE-146-0256	-- 50.00'
	MUS-146-2695	-- 43.75'		GUE-146-0412	-- 68.75'		GUE-146-1002	-- 50.00'
	MUS-146-2811	-- 43.75'		GUE-146-0424	-- 68.75'			
	MUS-146-2973	-- 43.75'		GUE-146-0499	-- 75.00'			
	MUS-146-3384	-- 43.75'		GUE-146-0574	-- 75.00'			
				GUE-146-0752	-- 68.75'			
				GUE-146-0764	-- 37.50'			
				GUE-146-0785	-- 68.75'			
				GUE-146-0876	-- 68.75'			
				GUE-146-0941	-- 68.75'			

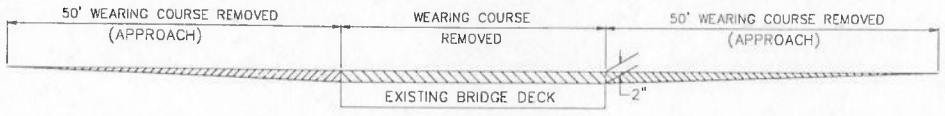
12-01-94 (VAINT - C) GUEB3BT1

BRIDGE DECK TREATMENT

MUS-146-0.00  
GUE-146-0.00  
GUE-672-0.00  
NOB-672-0.00

DATE: \_\_\_\_\_  
 CHECK BY: \_\_\_\_\_  
 DATE: \_\_\_\_\_  
 PLAN NO. **145**

BRIDGE DECK DATA																		
PART	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS)	WIDTH	BRIDGE DECK AREA	BRIDGE DECK REPAIR				SPECIAL			ASPHALT CONCRETE				407 TACK COAT @ 0.05 GAL./SQ.YD.	202 WEARING COURSE REMOVED, APPROACHES	
					WEARING COURSE REMOVED DEPTH 2"	<input type="checkbox"/> SS-845 LATEX MODIFIED CONCRETE <input type="checkbox"/> SS-850 DENSE CONCRETE		PATCHING		STEEL DRIP STRIP	DECK WATERPROOFING		THICK	448 INTERMEDIATE COURSE, TYPE 1 AC-20	THICK			448 SURFACE COURSE, TYPE 1, AC-20
						" THICK OVERLAY	VARIABLE THICKNESS OVERLAY	FULL-DEPTH REPAIR	TYPE		SQ.YD.	SQ.FT.						
LIN.FT.	LIN.FT.	SQ.YDS.	SQ.YDS.	SQ.YDS.	SQ.YDS.	CU.YDS.	CU.YDS.				SQ.YDS.	SQ.YDS.					SQ.YD.	
4	CONTINUED FROM PREVIOUS SHEET																	
	GUE-146-0412	95.18	27.50	290.83	DO NOT COVER - SEE DETAIL ON PREVIOUS SHEET													233
	GUE-146-0424	22.50	19.33	48.33	DO NOT COVER - SEE DETAIL ON PREVIOUS SHEET													233
	GUE-146-0499	10.33	24.00	27.55	SEE DETAIL BELOW													200
	GUE-146-0574	10.83	24.88	29.94	SEE DETAIL BELOW													200
	GUE-146-0752	57.42	28.17	179.72	DO NOT COVER - SEE DETAIL ON PREVIOUS SHEET													175
	GUE-146-0764	14.83	24.00	39.55	SEE DETAIL BELOW													200
	GUE-146-0785	33.25	25.70	94.95	DO NOT COVER - SEE DETAIL ON PREVIOUS SHEET													175
	GUE-146-0876	16.00	25.50	45.33	DO NOT COVER - SEE DETAIL ON PREVIOUS SHEET													175
	GUE-146-0941	31.10	30.00	103.67	DO NOT COVER - SEE DETAIL ON PREVIOUS SHEET													175
4	TOTALS				228.16									7		7	11	2266
5	GUE-146-0256	20.0	28.0	62.22	DO NOT COVER - SEE DETAIL ON PREVIOUS SHEET													233*
6	GUE-146-1002	61.5	24.0	164.0	SEE DETAIL BELOW													200



- GUE-146-0256
- GUE-146-0391
- GUE-146-0499
- GUE-146-0574
- GUE-146-0764
- GUE-672-0236

12-01-94 (MAINT - C) GUEB3BT2



BRIDGE DECK TREATMENT

GUE--83--0.00  
MUS--146--26.41  
GUE--146--0.00  
GUE--672--0.00  
NOB--672--0.00

CALC. BY	DATE	PLAN NO. <b>145</b>
CHKD. BY	DATE	



BRIDGE DECK DATA

PART	COUNTY, ROUTE, BRIDGE NO.	LENGTH (BRIDGE LIMITS) LIN.FT.	WIDTH LIN.FT.	BRIDGE DECK AREA SQ.YDS.	202			BRIDGE DECK REPAIR			SPECIAL			ASPHALT CONCRETE				407 TACK COAT @ 0.05 GAL./SQ.YD.	202 WEARING COURSE REMOVED. (APPROACHES) SQ.YD.	
					WEARING COURSE REMOVED DEPTH 2" SQ.YDS.	<input type="checkbox"/> SS-845 LATEX MODIFIED CONCRETE <input type="checkbox"/> SS-650 DENSE CONCRETE		PATCHING		STEEL DRIP STRIP SQ.FT.	DECK WATERPROOFING		44B INTERMEDIATE COURSE, TYPE 1, AC-20 THICK INCH	44B SURFACE COURSE, TYPE 1, AC-20 THICK INCH						
						" THICK OVERLAY SQ.YDS.	VARIABLE THICKNESS OVERLAY CU.YDS.	FULL-DEPTH REPAIR CU.YDS.	TYPE		SQ.YD.	MEMBRANE WATERPROOFING SHEET TYPE 1 SQ.YDS.			MEMBRANE WATERPROOFING SQ.YDS.	CU.YD.	CU.YD.			GAL.
7	GUE-672-0236	16.0	19.83	35.25	35.25	SEE DETAIL ON SHT. 32								1	1	1	1	2	222	

# GENERAL SUMMARY

MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NOB-672-0.00

DATE	
CHKD. BY	
DATE	

PLAN NO. **145**

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ITEM	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8	ITEM	ITEM EXT. NO.	GRAND TOTAL 100% STATE	UNIT	DESCRIPTION
						LUMP			202	00201	LUMP	LUMP	REPLACEMENT
202	336	122	1307	3066	233	200	222	111	202	23500	5597	SQ.YD.	RAILROAD CROSSING REMOVED AND PAVEMENT
202		740			7700				202	32000	8440	LIN.FT.	WEARING COURSE REMOVED
202	62		760	1146			420		202	54101	2388	EACH	CURB REMOVED
203			B36						203	60000	B36	STATION	RAISED PAVEMENT MARKER REMOVED FOR STORAGE, AS PER PLAN
										20363000			LINEAR GRADING
SPECIAL	2	2	24	28	3	1	8	1	SPECIAL	20363000	69	HOUR	GRADER RENTAL
SPECIAL	1	1	12	14	2	1	4	1	SPECIAL	20363500	36	HOUR	LOADER RENTAL
253				275	446				253	01000	721	SQ.YD.	PAVEMENT REPAIR
254			2552	139	12508				254	01000	15199	SQ.YD.	PAVEMENT PLANING, BITUMINOUS
254			130	6	584				254	01600	720	SQ.YD.	PATCHING PLANED SURFACE
301			3094						301	10002	3094	CU.YD.	BITUMINOUS AGGREGATE BASE, AC-20
407	353	408	6109	5627	945	163	1177	241	407	10000	15023	GALLON	TACK COAT
408		34			12				408	10000	46	GALLON	BITUMINOUS PRIME COAT

## GENERAL NOTES

**TRAFFIC:**

Traffic shall be maintained at all times. The length of restricted traffic zones shall be kept to a minimum consistent with the specification requirements for protection of completed courses.

**RAILROAD CROSSINGS:**

The new surface course shall be butt jointed to meet the rail grades as specified.

**TACK COAT:**

The tack coat operation shall be as determined at a pre-construction conference as per 407.05, and application rates shall not exceed 0.10 gal. per sq. yd. In addition to the requirements of 407.05 the tack coat shall be applied immediately ahead of the paving operation or as otherwise determined by the Project Engineer.

**INTERMEDIATE COURSE, SPOT LEVELING AND PATCHING:**

This material shall be placed in a separate operation where and as directed by the Engineer.

**ALIGNMENT AND PROFILE:**

The work proposed by this project is for the resurfacing of the existing pavement. The alignment of the existing pavement will not be changed, and the profile of the proposed surface will be similar to that of the existing pavement except that it will be raised an amount equal to the thickness of the resurfacing course or courses specified in these plans.

Spreading equipment shall be capable of having an automatic profile control device added to be used when directed by the Engineer. The minimum length of the ski for this device shall be 30'.

**CONTROL OF ONE WAY TRAFFIC:**

In addition to the requirements of the Ohio Manual of Uniform Traffic Control Devices and Material Specifications the following requirements shall apply. Communications between flaggers shall be by two-way radio during the paving operations. Payment for the above shall be included in Item 614, Maintaining Traffic.

**COVER AGGREGATE:**

Cover aggregate shall conform to 703.06.

**BRIDGES:**

The proposed depth of asphalt resurfacing shall be altered to match the proposed depth of the treatment on the structures. The resurfacing thickness shall be adjusted as required at the approximate rate of 25 ft. per inch of difference in thickness unless otherwise directed by the Engineer.

# GENERAL SUMMARY

GUE-83-0.00  
 MUS-146-26.41  
 GUE-146-0.00  
 GUE-672-0.00  
 NDB-672-0.00

CALL BY _____	DATE _____
CHKD. BY _____	PLAN NO. <b>145</b>
DATE _____	

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35

ITEM	PART 1	PART 2	PART 3	PART 4	PART 5	PART 6	PART 7	PART 8	ITEM	ITEM EXT. NO.	GRAND TOTAL 100% STATE	UNIT	DESCRIPTION
448	213	247	3603	3498	555	104	1118	148	448	14001	9486	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, AC-20
448	189	223	3233	3085	525	89	978	131	448	16000	<b>8453</b>	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20
448	3	18	54	39	9	12	21	2	448	16004	158	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, AC-20(FOR DRIVEWAYS)
604					8				604	09000	8	EACH	CATCH BASIN ADJUSTED TO GRADE
604					5				604	09500	5	EACH	CATCH BASIN RECONSTRUCTED TO GRADE
605				200					605	31100	200	LIN.FT.	AGGREGATE DRAIN
609		740			7700				609	26000	8440	LIN.FT.	CURB, TYPE 6
614	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	614	11000	LUMP	LUMP	MAINTAINING TRAFFIC
614	6	8	34	56	16	12	24	8	614	12460	164	EACH	WORK ZONE MARKING SIGN
614	1.08	1.18	16.12	18.15	3.39	0.58	5.52	0.74	614	21400	46.76	MILE	TEMPORARY CENTER LINE, CLASS II
617	88	84	1289	1478	64	47	450	60	617	10100	3560	CU.YD.	COMPACTED AGGREGATE, TYPE A, AS PER PLAN
617	1	1	12	14	1	1	4	1	617	25000	35	M.GAL.	WATER
619	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	619	15000	LUMP	LUMP	FIELD OFFICE, TYPE A
									<b>619</b>	<b>25000</b>	<b>LUMP</b>	<b>LUMP</b>	<b>COMPUTER EQUIPMENT FOR TYPE A OFFICE</b>
624	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP	624	10000	LUMP	LUMP	MOBILIZATION
642	1.08	1.18	16.16	18.14	2.26	0.58	5.52	0.74	642	00102	45.66	MILE	EDGE LINE, TYPE 2
642	0.54	0.59	8.08	9.07	1.13	0.29	2.76	0.37	642	00302	22.83	MILE	CENTER LINE, TYPE 2
644		<b>68</b>	187	<b>344</b>	174	10	85	20	644	00500	<b>888</b>	LIN.FT.	STOP LINE
644					732	50			644	00600	782	LIN.FT.	CROSSWALK LINE
644				8					644	01000	8	EACH	RAILROAD SYMBOL MARKING
659		<b>0.02</b>							659	<b>20000</b>	<b>0.71</b>	TON	COMMERCIAL FERTILIZER
659		<b>1</b>							659	<b>35000</b>	<b>4</b>	M.GAL.	WATER
SPECIAL			4	6				3	SPECIAL	69050000	13	EACH	MAILBOX SUPPORTS
862	62		760	1146				420	862	00100	2388	EACH	RAISED PAVEMENT MARKER
659		<b>247</b>			<b>2567</b>				659	<b>10000</b>	<b>2814</b>	SQ.YD.	SEEDING AND MULCHING
659		<b>0.12</b>			<b>3.07</b>				659	<b>30000</b>	<b>3.59</b>	TON	AGRICULTURAL LIMING

AS PER PLAN

12-01-94 (MAINT - C) GUEB3GS2

GENERAL SUMMARY