# OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

			PROJEC	T TERMINII	NET LENGTH		OUTV	VILLAGE	
COUNTY	ROUTE	SECTIONS	BEGIN	END	MILES	TOWNSHIP	CITT	VILLAGE	
PER	SR 13	(20.38 - 26.12)	20.38	27.44	7.06				
					-				
	PER			COUNTY ROUTE SECTIONS BEGIN	BEGIN END	COUNTY ROUTE SECTIONS BEGIN END LENGTH MILES	COUNTY ROUTE SECTIONS BEGIN END LENGTH MILES TOWNSHIP	COUNTY ROUTE SECTIONS  BEGIN END LENGTH MILES TOWNSHIP CITY	

LOCATION MAP

PORTION TO BE IMPROVED

DATE
CHKD. BY

PLAN NO.

260

 $\binom{1}{5}$ 

PER-13-20.38

774 — SHOULDER STABILIZATION

344 (91)

The Standard 19.89 Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposal shall govern these improvements.

I hereby approve these plans and declare that the making of these improvements will require the closing of the highways to traffic on Parts No. NONE and that detours will be provided by State forces. The closing to traffic of the highways will not be required on Parts No. and provisions for the maintenance and safety of traffic will be indicated in the proposal.

Approved
Date 2/5/90 District Deputy Director of Transportation

Approved Engineer of Bridges

Approved Engineer of Maintenance

Approved 2.8.91 Thomas Trooty
Date \_\_\_\_\_ Deputy Director, Operations

Approved
Date \_\_\_\_\_ Assistant Deputy Director,
Program Development

Approved

Date \_\_\_\_\_ Chief Engineer, Construction

Approved Chief Engineer, Design

Approved
Date \_\_\_\_\_ Assistant Director,
Department of Transportation

Approved
Date 2-11-91
Director Department of Transportation

			DARD VINGS	SUPPLEMENTAL SPECIFICATIONS						
BP	_	6	10-01-87	803	10-2-89					
мт		97.11	10-4-89							
МТ		97.10	4-29-88							

03-90 (MAINT - C)P13TIT

# $\binom{2}{5}$

### GENERAL NOTES

### MAILBOX TURNOUT

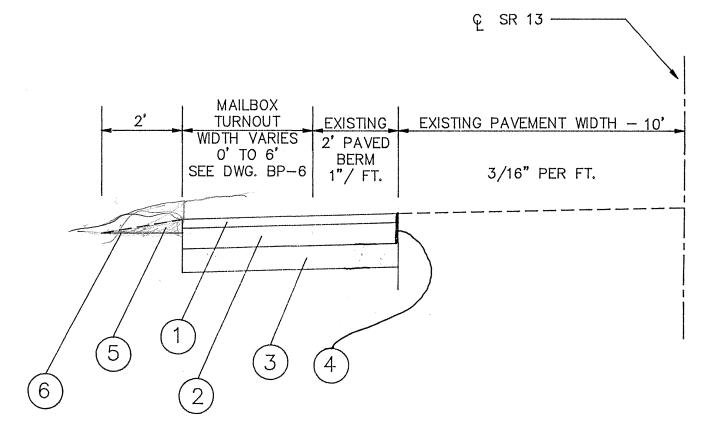
MAILBOX TURNOUTS SHALL BE DONE AT THE SAME TIME AS THE BERM OPERATION; OR AS THE ENGINEER DECIDES AT THE TIME OF CONSTRUCTION. IF THERE IS A DISTANCE OF 100' OR LESS BETWEEN MAILBOXES, APPROACHES SHALL BE PAVED THROUGH TO THE LAST MAILBOX. IF THERE IS A DISTANCE OF 50' OR LESS BETWEEN DRIVEWAY AND MAIL—BOX, THE APPROACH SHALL BE PAVED THROUGH TO MAIL—BOX. SEE DRAWING BP—6, 10—1—87 FOR FURTHER DETAILS.

LINEAR GRADING APPROXIMATELY 7 INCHES DEEP WILL BE PERFORMED IN TURNOUT AREAS; THIS WILL BE FOLLOWED BY 3 INCHES OF ITEM 304 AGGREGATE BASE, 3 INCHES OF ITEM 301 BITUMINOUS AGGREGATE BASE AND 1 INCH OF ITEM 404 ASPHALT CONCRETE. WHEN COMPLETED MAILBOX TURNOUTS AND BERMS SHALL BE EVEN WITH EXISTING PAVEMENT.

ALL WORK, MATERIALS, EXCEPT ITEMS 304, 203 & 301, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE ABOVE DESCRIBED WORK SHALL BE INCIDENTAL TO THE PLACEMENT OF ITEM 404 ASPHALT CONCRETE AC-20, AS PER PLAN

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO SHEET 4.

	(F	PART 1)	l
ITEM 203 LINEAR GRADING	46	686 LIŃ.	. FT.
ITEM 301 BITUMINOUS AGGREGATI	E BASE 1	173 CU.	YD.
ITEM 304 AGGREGATE BASE	1	173 CU.	YD.
ITEM 404 ASPHALT CONCRETE, A	C-20, APP	58 CU.	YD.



BERM STABILIZATION WITH MAILBOX TURNOUT TYPICAL (FOR BOTH SIDES)

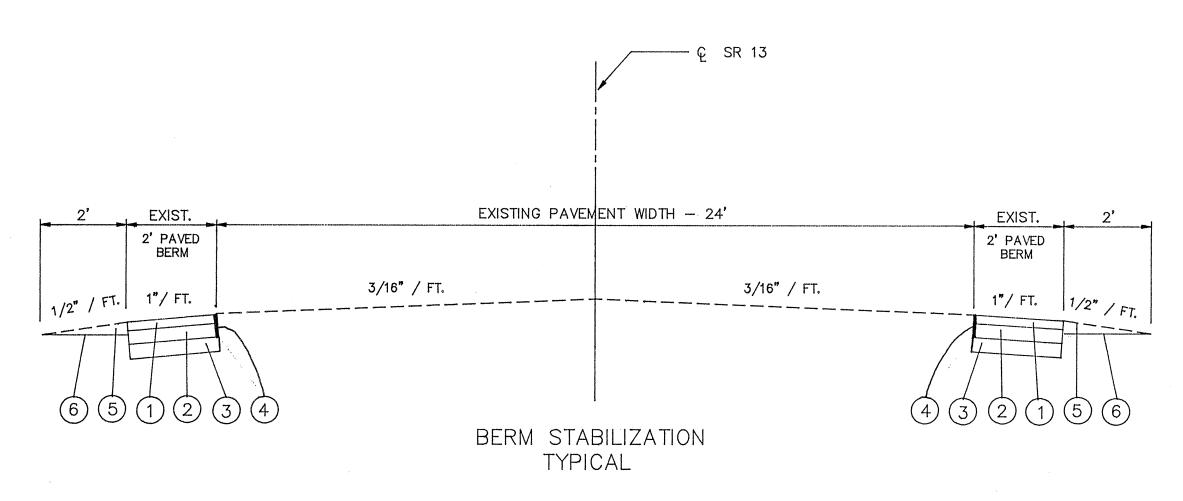
- (1) 404 1" ASPHALT CONCRETE, AC-20, AS PER PLAN
- (2) 301 3" BITUMINOUS AGGREGATE BASE
- 3 304 3" AGGREGATE BASE
- (4) 407 TACK COAT AT 0.25 GAL./S.Y. ALONG FACE OF TRENCH
- (5) 617 COMPACTED AGGREGATE, TYPE A (2" AVG. THICKNESS)
- 6 617 SOULDER PREPARATION

#### NOTE:

QUANTITIES FOR PAVED BERM AND AGGREGATE BERM HAVE BEEN CALCULATED SEPERATELY ON SHEET 4.



1991 - BERM STABILIZATION



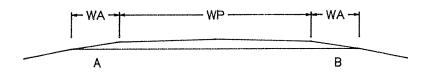
- 1) 404 1" ASPHALT CONCRETE, AC-20, AS PER PLAN
- 2) 301 3" BITUMINOUS AGGREGATE BASE
- 3) 304 3" AGGREGATE BASE
- (4) 407 TACK COAT @ 0.25 GAL./S.Y. ALONG FACE OF TRENCH
- 5 617 COMPACTED AGGREGATE, TYPE A (2" AVG. THICKNESS)
- 6) 617 SHOULDER PREPARATION

## PAVED SHOULDERS 774 - SHOULDER STABILIZATION

260 PLAN NO. PER-13-20.38



#### TYPICAL 1



EDGE LINE DAMAGE:

ANY DAMAGE TO THE EDGE LINE SHALL BE REPAIRED TO MEET THE APPROVAL OF THE ENGINEER. AND BE AT THE CONTRACTOR'S EXPENSE.

ITEM 803 FULL DEPTH PAVEMENT SAWING

PAVEMENT SAWING SHALL PROVIDE A CLEAN EDGE FOR BERM STABILIZATION TO BE PERFORMED. ANY EXISTING PAVEMENT THAT IS UNSOUND DUE TO THIS OPERATION SHALL BE REPAIRED AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

#### \* NOTES

	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
	and directed by the Engineer to remove any unetable material and by shaping
	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
	Englished on directed by the Englisher shall be backfilled to desired ande
	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 diposed of as indicated in the plan.
	a. Used to back up shoulders where required; the balance to be disposed

as directed by the Engineer.

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.

ITEM 402 ASPHALT CONCRETE:

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.

ITEM 301 BITUMINOUS AGGREGATE BASE
May be used in lieu of Item 402 Asphalt Concrete.

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.

ITEM 408 BITUMINOUS PRIME COAT:
After application of the Prime Coat, no further treatment shall be performed until so directed by the Engineer.

SHIELD: The Contractor shall provide a shield to prevent the spraying or drifting of liquid bituminous material onto the edge of the pavement or edge—lines. The attention of the Contractor is directed to 107.12 of the Specifications.

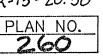
PAVED SHOULDER DATA
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- 1														1 / 1/10	311001		/ \ / / \			~~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	· · · · · · · · · · · · · · · · · · ·	,			
	T											20	)3	30	04	. 3	01	408	803	617	617	407	40	)4	1
				LE	NGTH	_	PRO	POSE (F	ED WI	IDTH	*	LINE GRAI	EAR DING	AGGRI BA	EGATE SE	AGGR	INOUS EGATE	PRIME	FULL DEPTH PAVEMENT	COMPACTED SHOULDER AGGREGATE PREPARATION		R TACK ASPHALT CONCRETE  © 0.25		RETE APP.	*
F	R	ROUTE	LOG POINT TO LOG POINT	MILES	LIN.FT.	YP-CAL	A	В	С	D	SHOULDER AREA SQ.YDS.	DEPTH INCHES		AVG. THICK INCHES		AVG. THICK INCHES		@gal./s.y.	SAWING	2' X 2"  AVER. THICKNESS TO BACK UP PAVED BERM		gal./sq.yd.  (FOR FACE OF TRENCH)	THICK INCHES		NOTES
-						<u> </u>	ļ						MILE		CU.YDS.		CU,YDS.	GALS.	LIN. FT.	CU.YDS.	SQ.YDS.	GALS.		CU.YDS.	
	   S	R 13	20.38-27.44	7.06	37,277	1 1	2	2			16,568	7	14.12	3	1380	3	1380		74,554	920	16,568	690	11	460	1
			TURNOUTS FR	•								7	0.89	3	173	3	173						1	58	1
	T	OTALS	PART 1	7.06	37,277	<u> </u>					16,568		15.01		1553		1553		74,554	920	16,568	690		518	
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## GENERAL SUMMARY

CALC. BY SAM DATE 12-5-10 CHKD. BY DATE

PER-13-20.3B





ITEM	PART 1				ITEM	ITEM EXT. NO.	GRAND TOTAL PART 1	UNIT	DESCRIPTION
203	15.01				203	60500	15.01	MILE	LINEAR GRADING
301	1553				301	10002	1553	CU.YD.	BITUMINOUS AGGREGATE BASE, AC-20
304	1553				304	20000	1553	CU.YD.	AGGREGATE BASE
404	518				404	20000	518	CU.YD.	ASPHALT CONCRETE, AC-20, AS PER PLAN
407	690				407	10000	690	GALL <b>ON</b>	TACK COAT
614	LUMP 920				614	11000	LUMP 920	LUMP CU.YD.	MAINTAINING TRAFFIC COMPACTED AGGREGATE, TYPE A
617	16568				617	20000	16568	SQ. YD.	SHOULDER PREPARATION
619	LUMP		 		619	10000	LUMP	LUMP	FIELD OFFICE
624	LUMP				624	10000	LUMP	LUMP	MOBILIZATION
803	74554				803	10000	74554	LIN. FT.	FULL DEPTH PAVEMENT SAWING
		- University day of Parameters							

#### 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.

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.

## GENERAL NOTES

#### OVERNIGHT TRENCH CLOSINGS:

THE BASE WIDENING OF THIS PROJECT SHALL BE COMPLETED TO A DEPTH OF 0 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF EACH WORK DAY. A SHORT SECTION (25 FFET OR LESS) MAY BE LEFT OPEN WITH THE APPROVAL OF THE ENGINEER. NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED DUE TO INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING SHALL BE BACKFILLED AT THE DISCRETION OF THE ENGINEER, THOSE AREAS OF TRENCH ALLOWED TO REMAIN OPEN SHALL BE PROTECTED WITH DRUMS AND HAVE YELLOW BEACON LIGHTS SECURELY ATTACHED.

START DATE:

ALL WORK SHALL BE COMPLETED ON THIS JOB BEFORE PROJECT (91) PART 2 FROM SLM 20.38-26.12 CAN BE STARTED.

TRENCH FOR WIDENING:
TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY
ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN
TRENCH SHALL BE AP EQUATELY MAINTAINED AND PROTECTED
WITH DRUMS AT ALL TIMES. PLACEMENT OF THE PROPOSED
SUB-BASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY
AS POSSIBLE BEHIND THE EXCAVATION OPERATION. THE
LENGTH OF THE WIDENING TRENCH WHICH IS OPEN TO TRAFFIC
SHALL BE HELD TO A MINIMUM AND BE SUBJECT TO THE
APPROVAL OF THE ENGINEER.

CONTROL OF ONE WAY TRAFFIC: In addition to the requirements of the Ohio Manual of Uniform Traffic Control Devices and Materia! 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.