

STATE OF VERMONT
 AGENCY OF TRANSPORTATION

Date AUG 13 1985
 Contractor Coolery Asphalt Paving
 Signature Hubert G. Laprade
 Title President

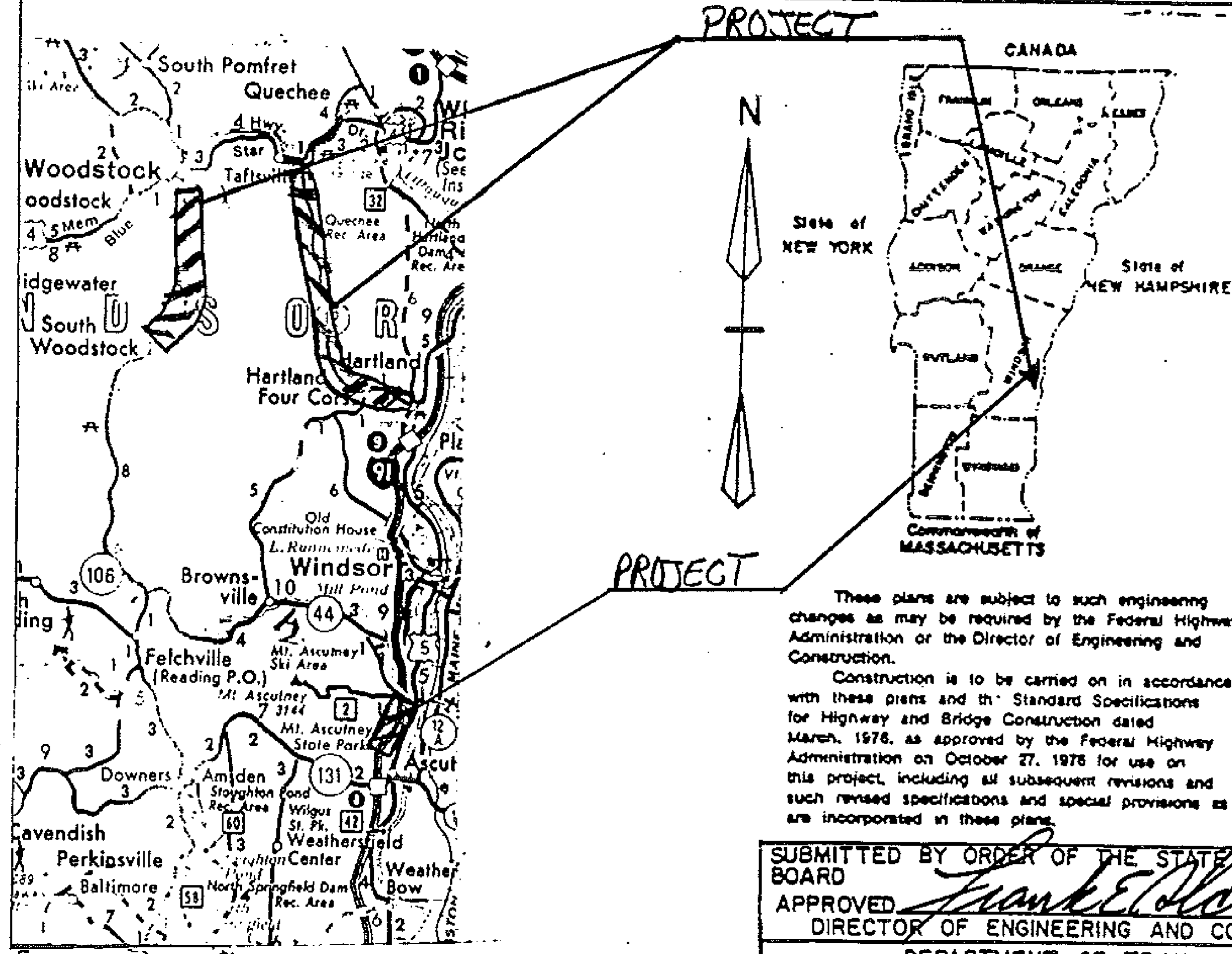


CONTRACT PLANS

THESE PLANS DO NOT REFLECT CHANGES MADE ON THE PROJECT AS "RECORD PLANS" WOULD.

PROPOSED IMPROVEMENT

RESURFACING PROJECT
 WEATHERSFIELD - WINDSOR
 TOWN OF: HARTLAND - WOODSTOCK
 COUNTY OF: WINDSOR
 ROUTE NO: US 5 VT. 12 VT. 106
 ROUTE CLASS: FAS



PROJECT PROCESSED UNDER
 SECONDARY ROAD PLAN

These plans are subject to such engineering changes as may be required by the Federal Highway Administration or the Director of Engineering and Construction.
 Construction is to be carried on in accordance with these plans and the Standard Specifications for Highway and Bridge Construction dated March, 1976, as approved by the Federal Highway Administration on October 27, 1978 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD
 APPROVED Frank E. Walsh DATE MAY 1985
 DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 APPROVED _____ DATE _____
 DIVISION ADMINISTRATOR

PROJECT NO. HMA 2616 - HMA 2617
HMA 2645

SHEET 1 OF SHEETS

1 INCH REPRESENTS 5 MILES

SEE SHEET 2 FOR INDEX

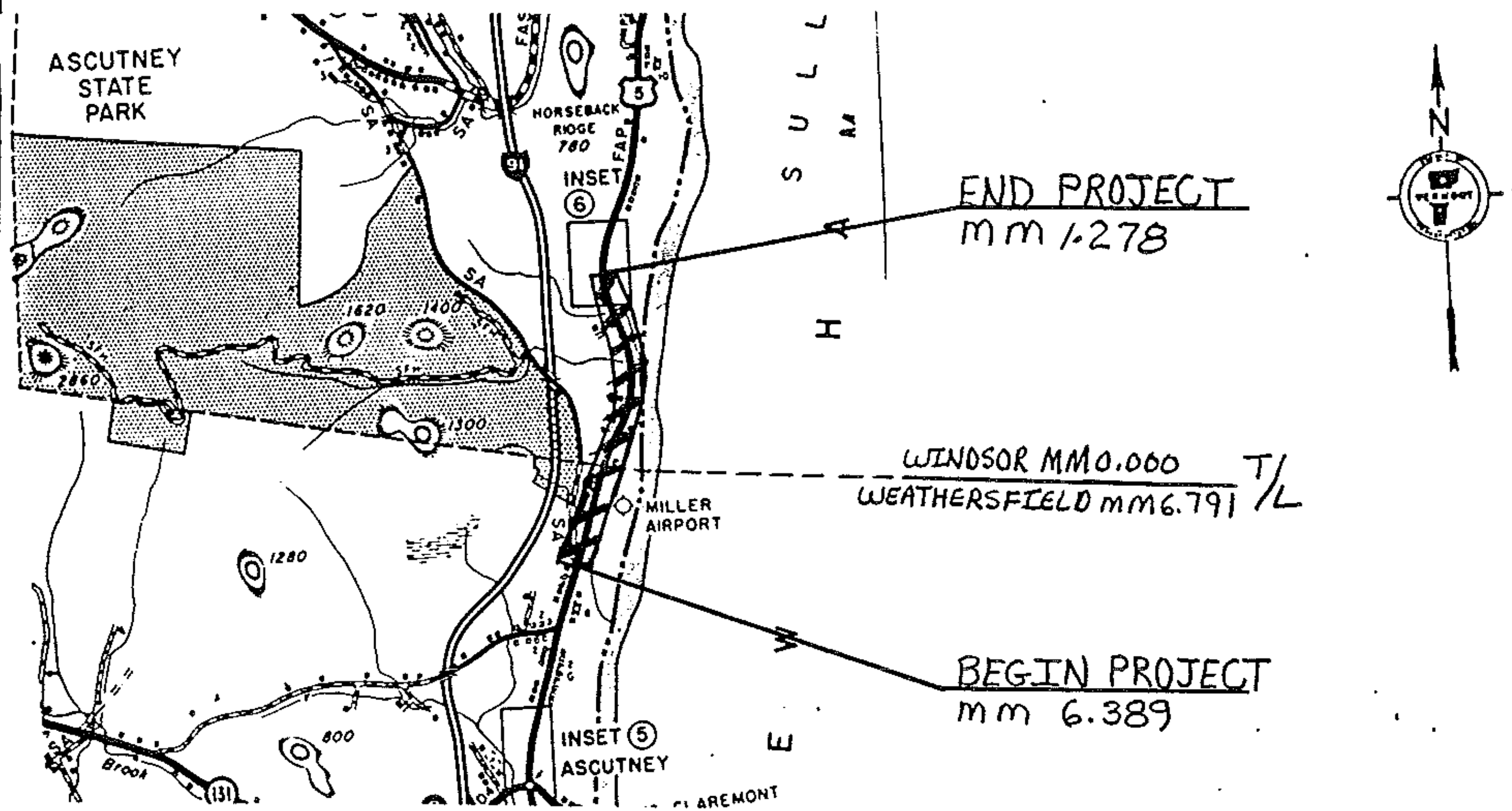
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PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	ITEM NUMBER																REMARKS		
	LENGTH	WIDTH	OVERLAY DEPTH	TOPSOIL	GRAVEL SHOULDERS	EMULSIFIED ASPHALT	BITUMINOUS CONCRETE PAVEMENT	CHANGE ELEV. OF CB, DL, OR '91	ALL PURPOSE EXC. RENTAL, TYPE I	POWER BROOM RENTAL	ENFORCED TRAFFIC OFFICERS	FLAGPERSONS	MOBILIZATION	TEMPORARY PAVEMENT	MARKING- White	TEMPORARY PAVEMENT		MARKING- Yellow	
UNIT	FEET	FT	INCH	C.Y.	CY	TON	CWT	TON	EA	HR	HR	HR	HR	LS	LF				
WEATHERSFIELD WINDSOR R50113(43)				40	700	1225	30	1900	1	5	20	100	100	.13	17800	26400			
HARTLAND HMA 2616				150	2900	5000	120	6500	1	5	60	330	330	.57	76700	146000			
WOODSTOCK HMA 2617				80	760	1325	70	3400	1	5	40	175	175	.30	40700	71700			
TOTALS				270	4360	7550	220	11800	3	15	120	605	605	1	135200	244,100			

PROJECT DESCRIPTION AND LOCATION



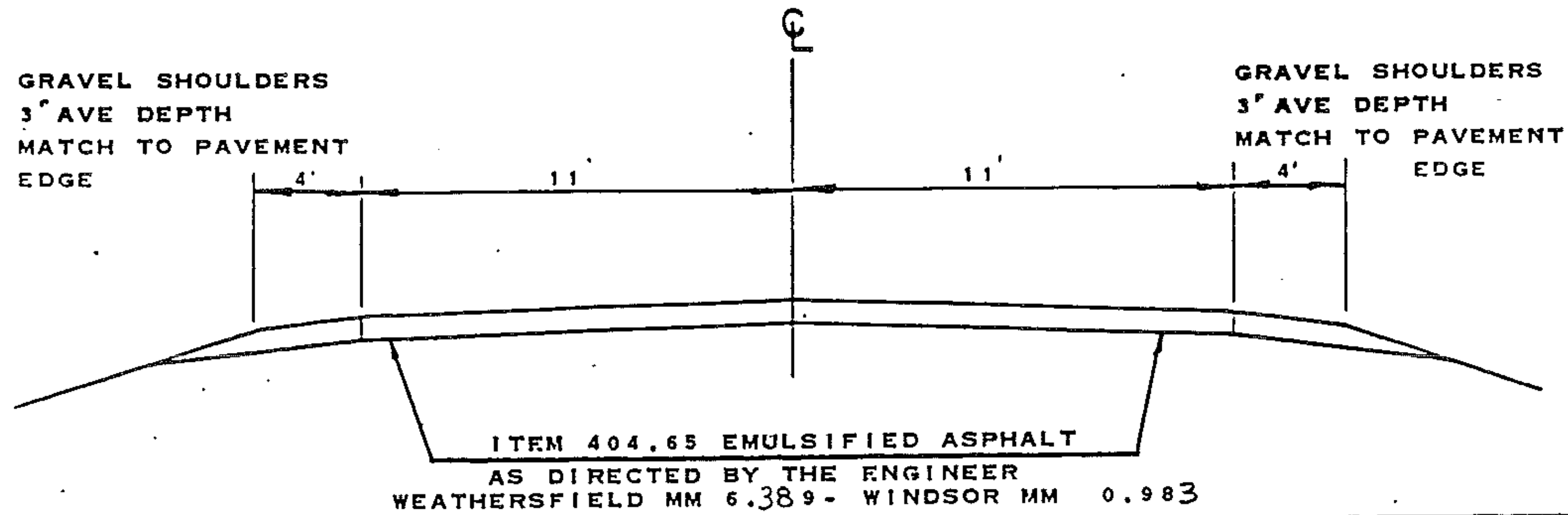
1 INCH REPRESENTS 1 MILE

ON US5 - BEGINNING IN THE TOWN OF WEATHERSFIELD AT
 MM 6.389 AND EXTENDING 1.680 MILES NORTHERLY TO MM 1.278
 IN THE TOWN OF WINDSOR.

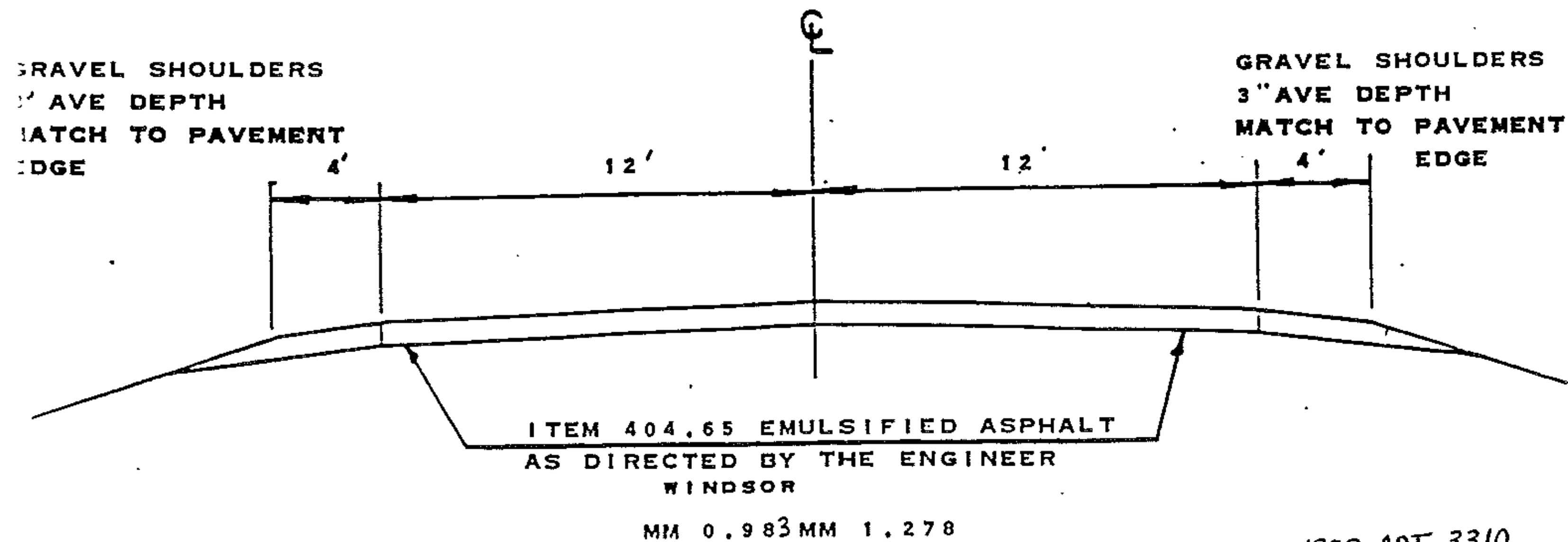
LENGTH OF PROJECT
 1.680 MILES
 8870 FEET

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE III OR IV (150 TONS/MILE)
 AS DIRECTED BY THE ENGINEER
 1 1/4" WEARING COURSE ($\pm 1/4$) TYPE III



ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE TYPE III OR IV (164 TONS/MILE)
 AS DIRECTED BY THE ENGINEER
 1 1/4" WEARING COURSE ($\pm 1/4$) TYPE III



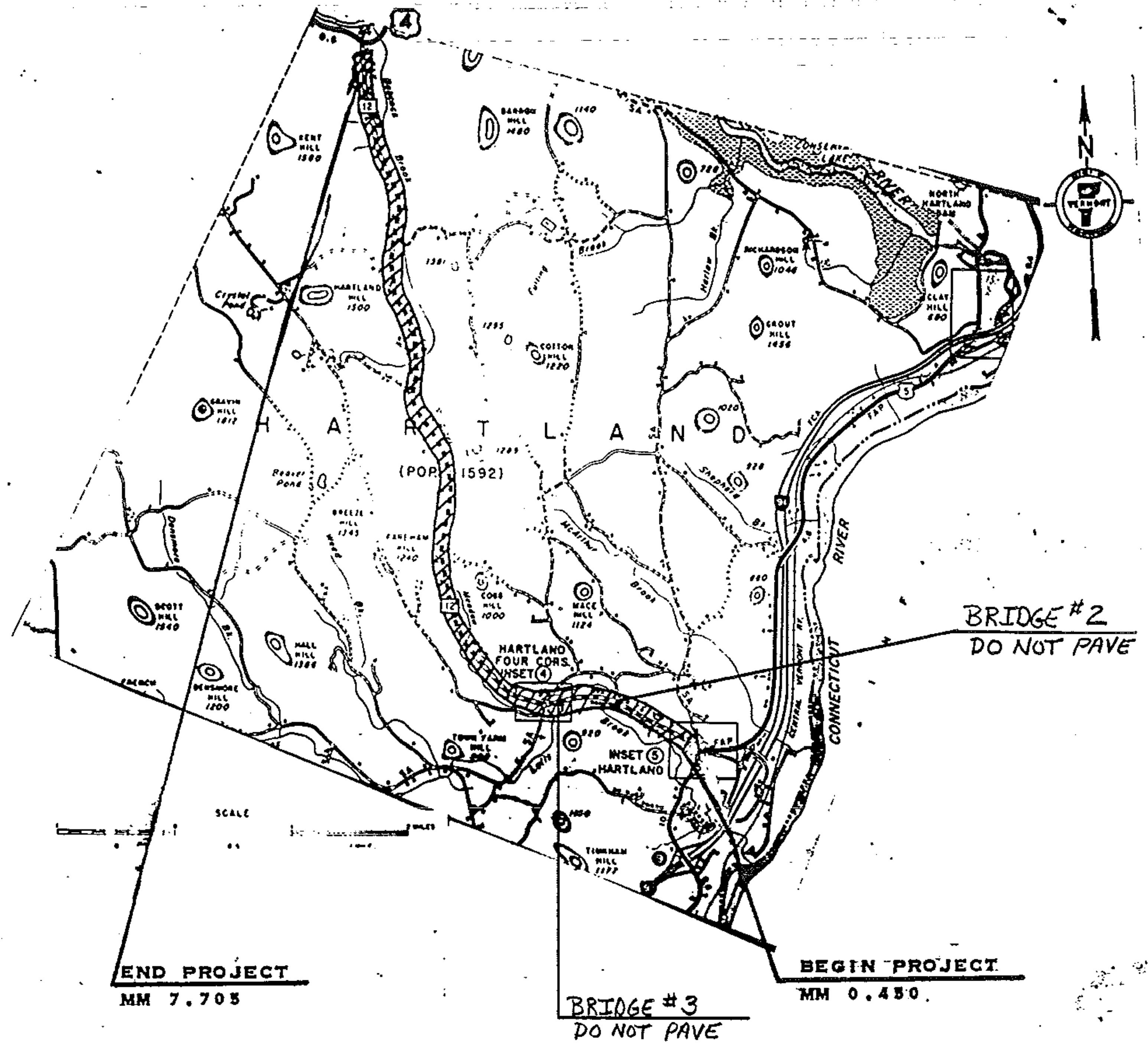
Note: Topsoil, Item 653.10 to be applied as directed by the Engineer.
 Seed, Fertilizer, Limestone and Mulch Items to be applied as required,
 payment to be subsidiary to the Topsoil item.

NO. HMA 2645

PROJECT WEATHERSFIELD-WINDSOR

SHEET 5 OF 12 SHEETS

PROJECT DESCRIPTION AND LOCATION



VT 12- BEGINNING IN THE TOWN OF HARTLAND AT MM 0.450 AND
EXTENDING NORTHERLY 7.255 MILES TO MM 7.705

LENGTH OF PROJECT
7.255 MILES
38306 FEET

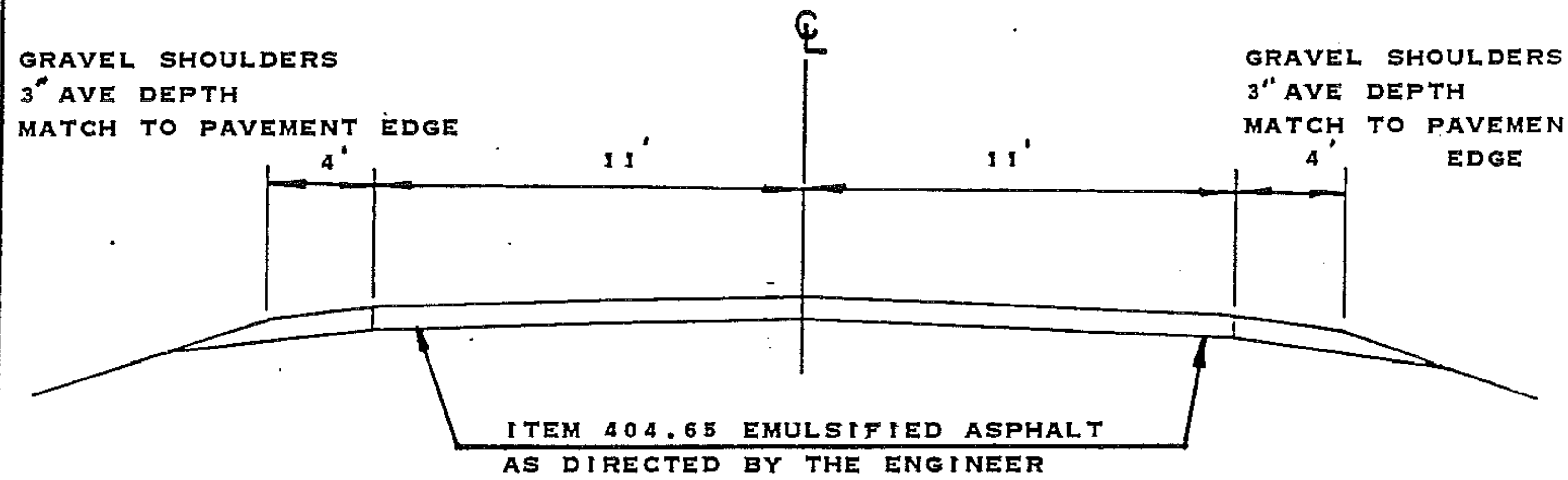
PROJECT HARTLAND

NO. HMA 2616

SHEET 8 OF 27 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE TYPE III OR IV (350 TONS/MILE)
AS DIRECTED BY THE ENGINEER
3/4" WEARING COURSE, "(±1/4)" TYPE IV



HARTLAND
MM 0.450-MM 7.705
1982 ADT 1190
V 50

PROJECT HARTLAND

NO. HMA 2616

SHEET 9 OF 21 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	LENGTH		WIDTH		OVERLAY DEPTH		TOPSOIL		GRAVEL SHOULDERS		EMULSIFIED ASPHALT		BITUMINOUS CONCRETE PAVEMENT		CHANGE ELEV. OF CB, DI, OR '71		ALL PURPOSE EXC. RENTAL, TYPE I		POWER SHOULDER RENTAL		ENFORCED TRAFFIC OFFICERS		FLAGPERSONS		MOBILIZATION		TEMPORARY PAVEMENT MARKING- White		TEMPORARY PAVEMENT MARKING- Yellow		REMARKS		
ITEM NUMBER	FEET	INCH	FT	INCH	FT	INCH	TON	CY	TON	EA	HR	HR	HR	HR	LS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF				
HARTLAND MM 0.450-7-705	38306	22	3/4				2837	4965	117	3902																							
										2539																							
Proj Est						145	50	25	1	50	1	5	58	324	324	.57	76612	145926															
ROUNDING						5	13	10	2	9			2	6	6			88	74														
TOTAL						150	2900	5000	120	6500	1	5	60	330	330	.57	76700	146000															

4' GRAVEL SHOULDERS
Level course 350

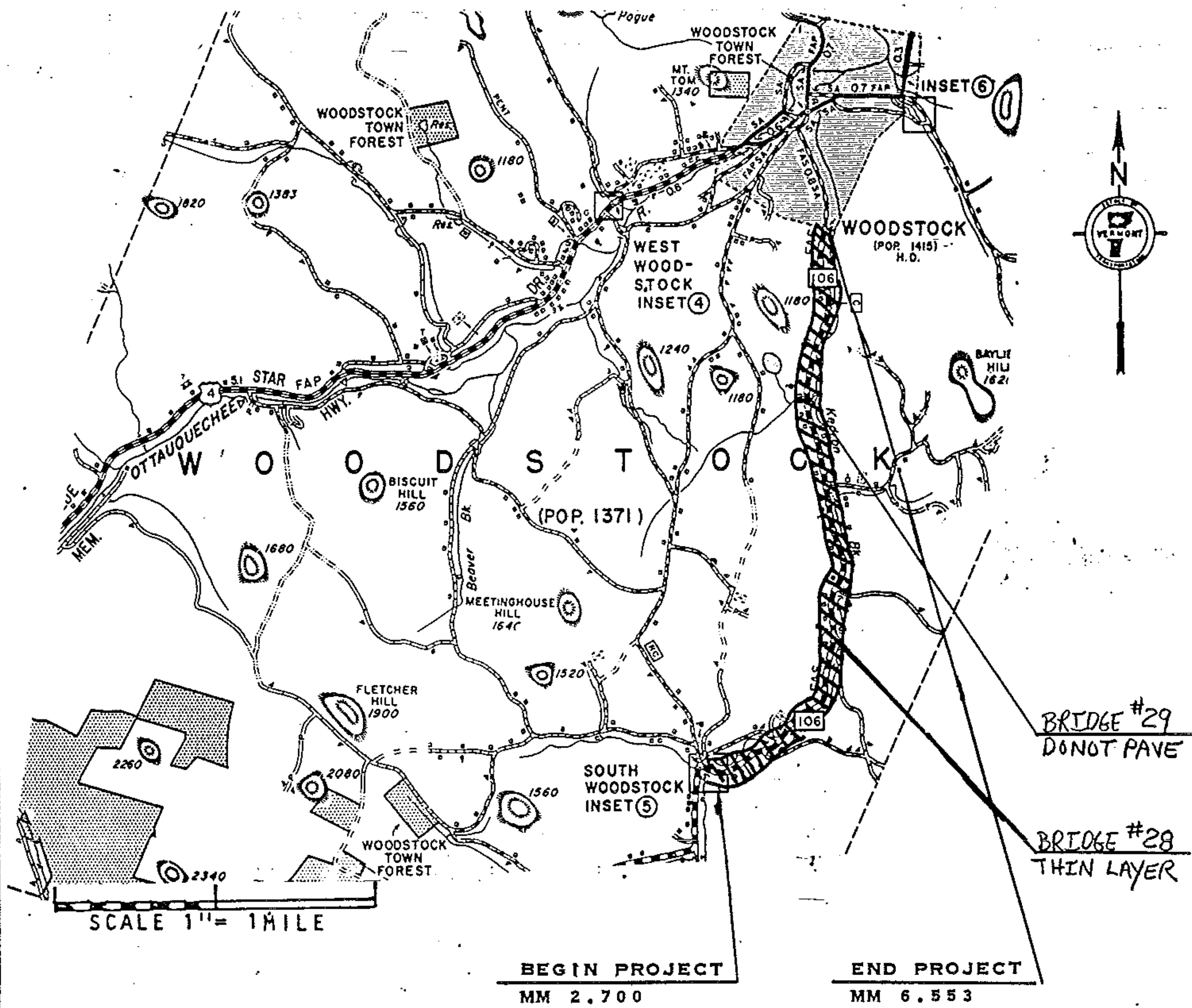
TEMPORARY 4" REFLECTORIZED YELLOW LINE

MILE	MILE	LT	RT	Length LT	Length RT	φ	Total Length LT+RT
0.450	1.69	Solid	Solid	6547	6547		13,094
1.69	1.82	Dash	Solid	172	686		858
1.82	2.20	Solid	Solid	2006	2006		4012
2.20	2.36	Solid	Dash	845	211		1,056
2.36	2.45	Dash	Dash			119	119
2.45	2.60	Dash	Solid	198	792		990
2.60	3.11	Solid	Solid	2693	2693		5386
3.11	3.22	Solid	Dash	581	145		726
3.22	7.705	Solid	Solid	23,681	23,681		47,362
							73,603
							640
ASSUME 100% φ Is Lost During Skimming							72,963
72,963 x 2 = 145,926 (4" Yellow)							145,926

TEMPORARY 4" REFLECTORIZED WHITE LINE

0.450	7.705	Solid	Solid	38,306	38,306		76,612
DURABLE LETTERS IN WORD MARKING							
Refer TO STD E-501							
7.46	RT	—	STOP AHEAD				9 ea
TOTAL =							9 ea
DURABLE 24" STOP BAR							
7.70	RT						20L5

PROJECT DESCRIPTION AND LOCATION



VT 106 - IN THE TOWN OF WOODSTOCK BEGINNING AT MM 2.700 AND EXTENDING 3.853 MILES TO MM 6.553

LENGTH OF PROJECT
3.853 MILES
20344 FEET

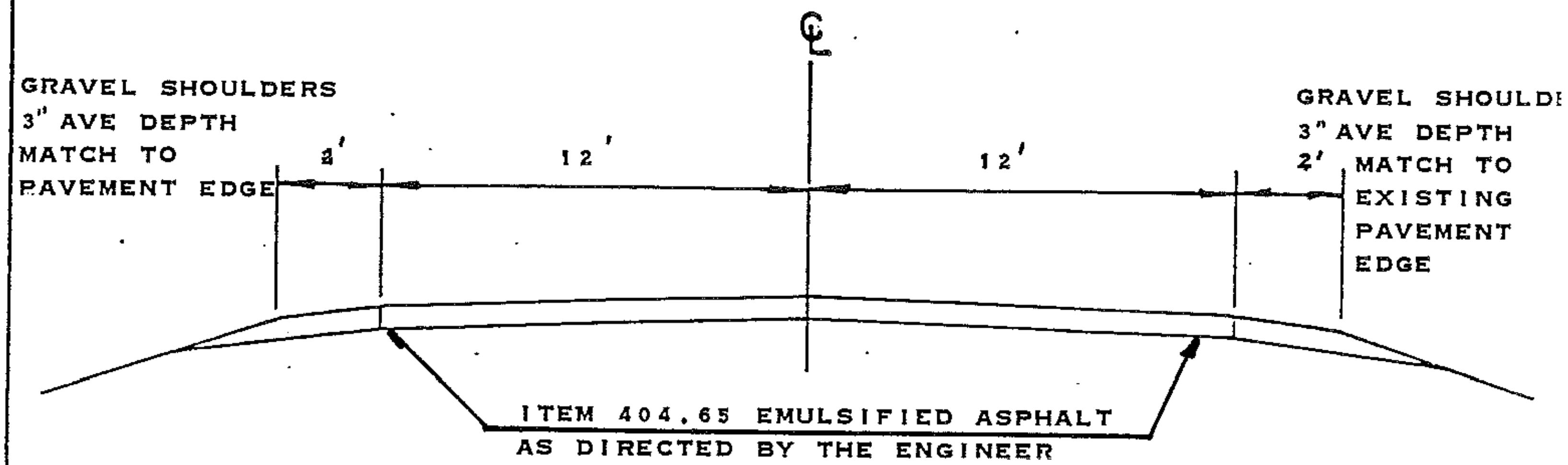
PROJECT WOODSTOCK

NO. HMA 2617

SHEET 12 OF 27 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE TYPE III OR IV (273 TONS/MILE)
AS DIRECTED BY THE ENGINEER
3/4" WEARING COURSE ($\pm 1/4$) TYPE IV



WOODSTOCK .
MM 2.700 MM 6.553
VT 106

1982 ADT 1620
V 50

PROJECT WOODSTOCK

NO. HRA 2617

SHEET ¹³ OF ₂₇ SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	ITEM NUMBER																REMARKS
	LENGTH	WIDTH	OVERLAY DEPTH	TOPSOIL	GRAVEL SHOULDERS	EMULSIFIED ASPHALT	BITUMINOUS CONCRETE PAVEMENT	CHANGE ELEV. OF CR. DI. OR '71	ALL PURPOSE EXC. RENTAL, TYPE I	POWER BROOM RENTAL	ENFORCED TRAFFIC OFFICERS	FLAGPERSONS	UTILIZATION	TEMPORARY PAVEMENT MARKING-White	TEMPORARY PAVEMENT MARKING-Left		
UNIT	FEET	FT	INCH	CY	CY	TON	CY	TON	EA	HR	HR	HR	HR	LS	LF		
WOODSTOCK MM2.700-6.553	20344	24	3/4		759	1319	68	2260							40688	71,676	2' GRAVEL SHOULDERS level 273 T/M
								1052									
PROJ ESTIMATE				77			1	50	1	5	31	168	168				
ROUNDING				3"	7	6	1	38			9	7	7		12	24	
TOTAL				80	760	1325	70	3400	1	5	40	175	175	.30	40700	71,700	

PROJECT WOODSTOCK

NUMBER HMA 2617

DATE 11

TEMPORARY 4" REFLECTORIZED YELLOW LINE

MILE	MILE	LT	RT	Length LT	Length RT	TOTAL Length
2.700	3.61	Solid	Solid	4805'	4805'	9610'
3.61	3.74	Solid	Dash	686'	172'	858'
3.74	3.86	Dash	Solid	158'	634'	792'
3.86	4.38	Solid	Solid	2746'	2746'	5492'
4.38	4.50	Solid	Dash	634'	158'	792'
4.50	6.553	Solid	Solid	10,840	10,840	21,680'
						39224'
(6TH x (40x2))						480
ASSUME 85% LOST LOST DURING LEVELING						38744
$38,744 \times 1.85 =$						71,676

TEMPORARY 4" REFLECTORIZED WHITE LINE

2.700	6.553	20,344'	20,344'			40,688'
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- A. CENTERLINE AND GORE AREA MARKINGS SHALL BE APPLIED AT THE END OF EACH WORKING DAY. THE FOLLOWING LAYOUT REQUIREMENTS SHALL BE MET:

NO PASSING BARRIER

SOLID STRIPES.

DASHED LINE

10-FOOT SOLID LINE WITH 30-FOOT GAP.

SOLID LINE - (GORE AREAS TO INCLUDE CHANNELIZING LINE AND DASHED LINE)

PER STANDARD SHEET E-50.

EDGE LINES

WHEN SPECIFIED, EDGE LINES ARE NOT REQUIRED UNTIL COMPLETION OF THE PROJECT. ON INTERSTATE PROJECTS, TEMPORARY EDGE LINES SHOULD BE APPLIED WHERE TRAFFIC VOLUMES AND SPEEDS ARE HIGH AND DELAY OF SEVERAL DAYS IS ANTICIPATED.

- B. TEMPORARY MARKINGS MAY CONSIST OF PAINT, TAPE OR RAISED PAVEMENT MARKERS (RPM'S). THE TAPE SHALL BE A RETRO-REFLECTIVE FILM ON A CONFORMABLE METALLIC BACKING THAT CAN BE PAVED OVER. TAPE MAY BE USED ON THE FINAL SURFACE COURSE IF IT WILL NOT INTERFERE WITH THE FINAL MARKING APPLICATION. THE RPM'S SHALL HAVE A SELF-ADHESIVE BACKING EASILY REMOVED BEFORE PAVING AND SHALL CONFORM TO THE FOLLOWING LAYOUT PATTERN: TEMPORARY TAPE MARKINGS WILL BE OFFSET AND REMOVED WHEN PROJECT IS FINISHED AND FINAL CENTERLINE PAINTED. THE TAPE SHALL BE THE TYPE THAT IS REMOVABLE INTACT AND NOT SEPERATE AT ANY TIME.

NO PASSING BARRIER

NO RPM'S ALLOWED.

DASHED LINE

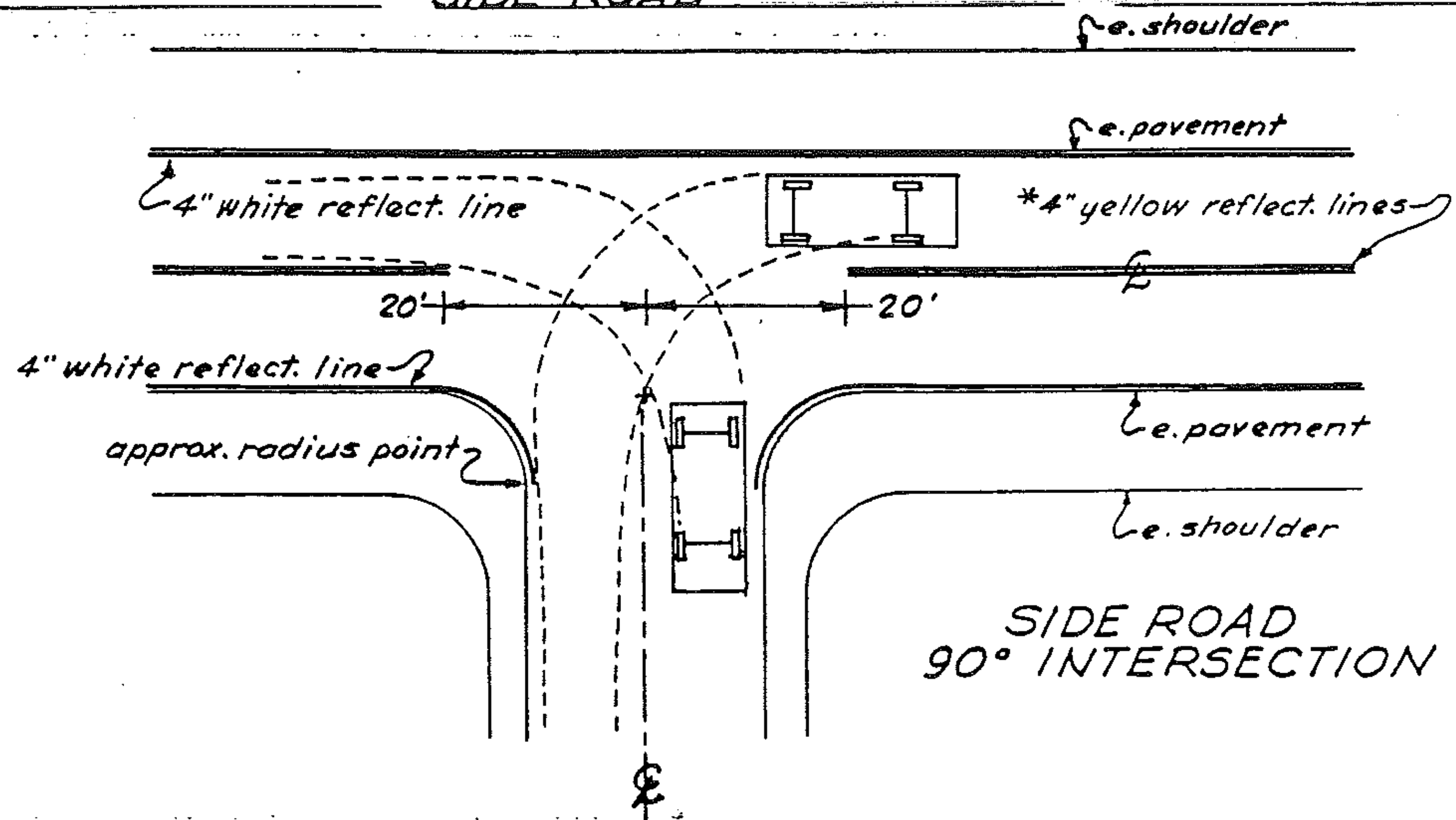
FOUR RETRO-REFLECTIVE RPM'S ON 3 1/2 FOOT CENTERS WITH A 30 FOOT GAP.

SOLID LINE - EDGE LINES

INTERSTATE MEDIAN SIDE-RETRO-REFLECTIVE RPM'S ON 4 TO 5 FOOT CENTER.
DRIVERS RIGHT SIDE-RPM'S NOT ALLOWED.

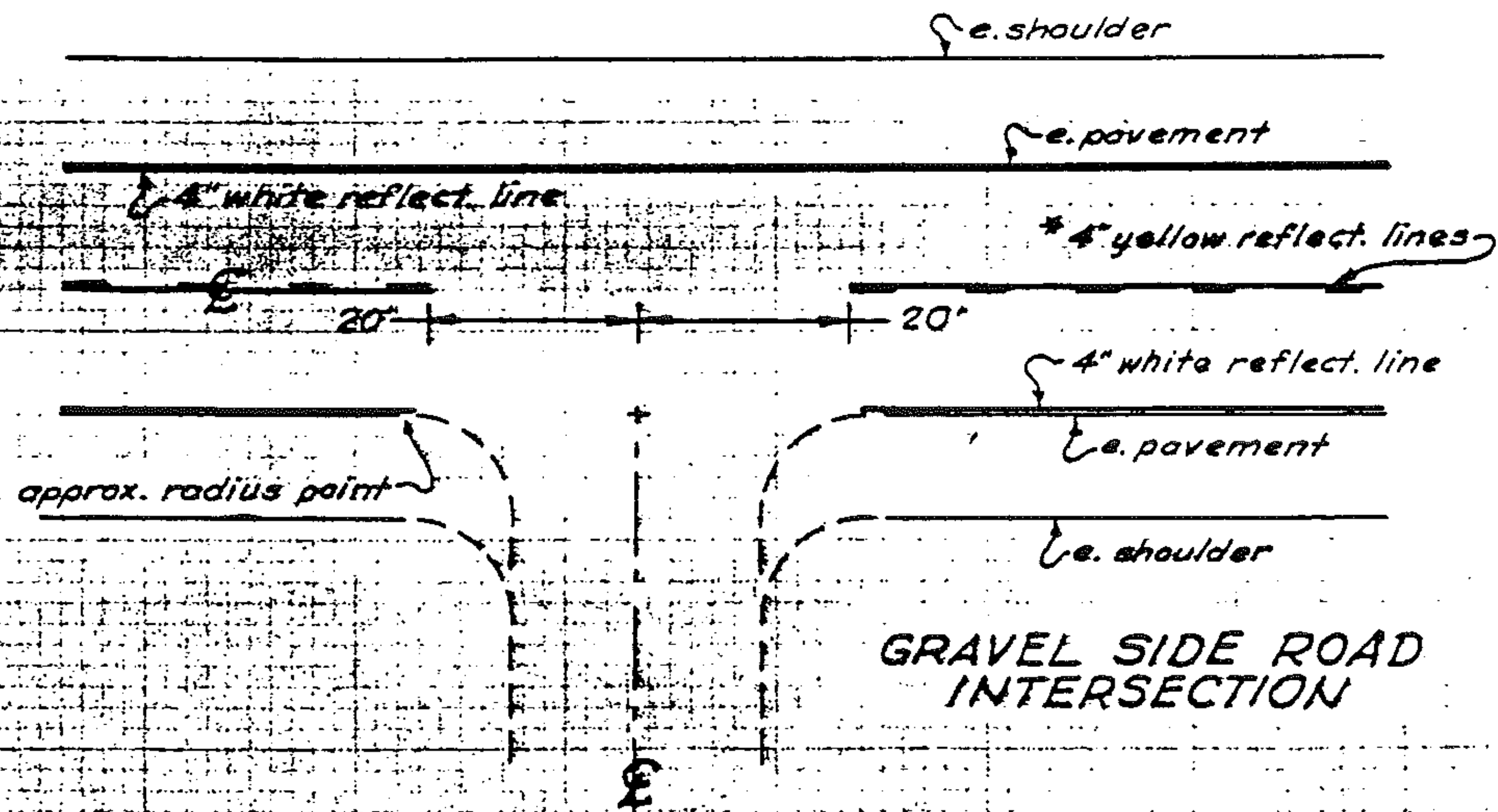
- C. WHEN PAINT IS USED FOR TEMPORARY MARKING, AN ALTERNATE MATERIAL SUCH AS TAPE OR RPM'S SHALL BE ON HAND IN THE EVENT RAIN PREVENTS THE PAINT APPLICATION FROM BEING COMPLETED. ALL PAINT SHALL BE REFLECTORIZED.
- D. PAYMENT FOR PAINT AND TAPE SHALL BE COMPUTED ON A LINEAR FOOT BASIS AS IF PAINT WAS USED. PAYMENT FOR THE RPM'S SHALL BE COMPUTED AS IF AN EQUIVALENT PAINT LINE WAS USED. (FOR EXAMPLE, DASHED LINE PAID AS 10 FEET OF PAINT, SOLID LINE PAID AS THE TOTAL DISTANCE COVERED WITH THE MARKERS).
- E. PRIOR TO ACCEPTANCE, THE PAVEMENT MARKINGS SHALL BE COMPLETED FOR THE ENTIRE PROJECT BY THE CONTRACTOR AS DETAILED ON THE PLANS OR DIRECTED BY THE RESIDENT ENGINEER.

HMA 2616 REVISED
HMA 2617
HMA 2645 01/12/85
LEATHERFIELD-WILSON, HARTLAND
Woodstock SHEET 18 OF 27



**SIDE ROAD
90° INTERSECTION**

***Centerline treatment shall consist of a minimum of 400 feet of solid line in advance of the intersection and shall be paired with either a solid or dashed line depending on sight distance availability in the opposing lane.**

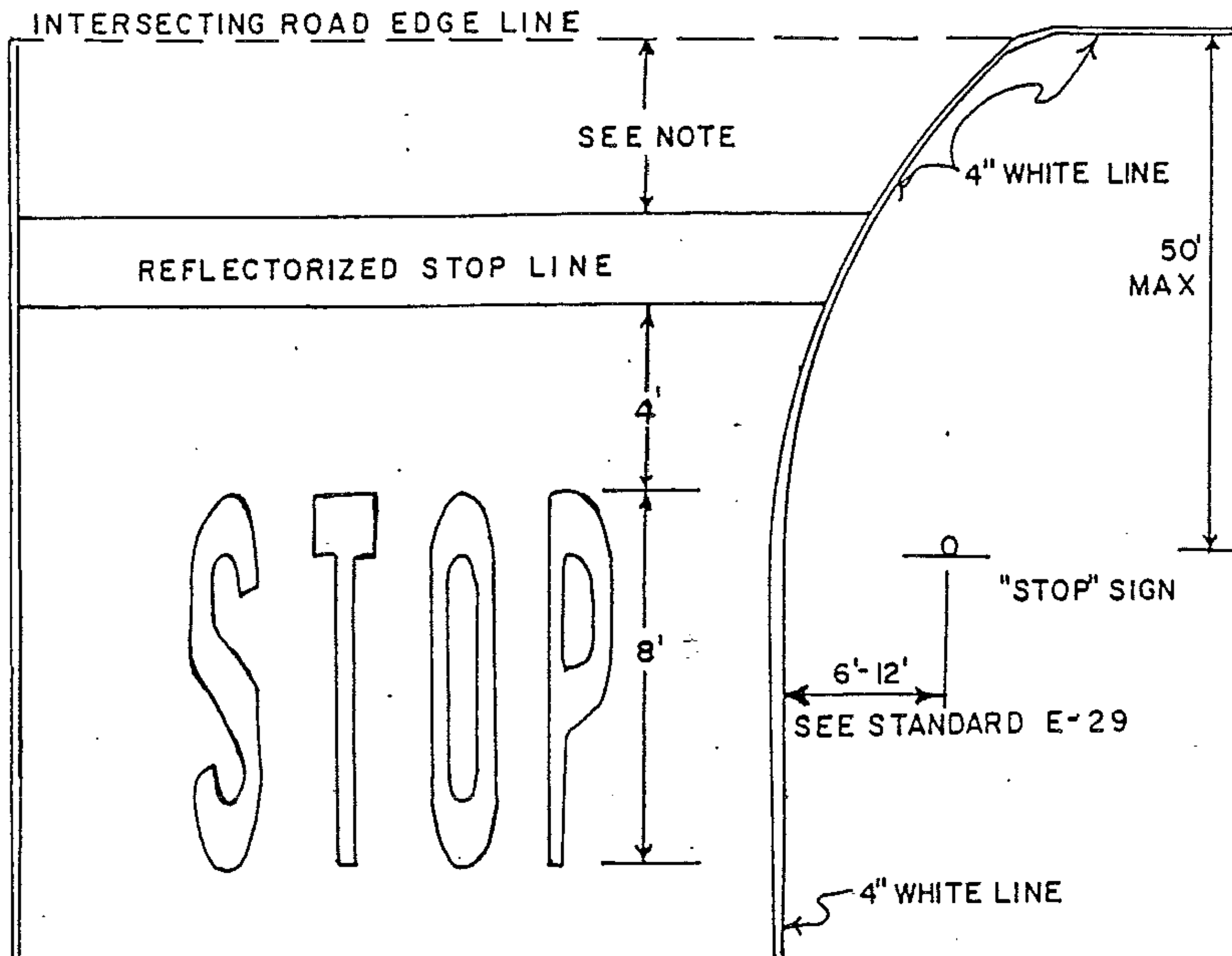


**GRAVEL SIDE ROAD
INTERSECTION**

WEATHERSFIELD - WINDSOR
HARTLAND - WOODSTOCK

HMA 2645 HMA 6616 HMA 6617

DETAILS



NOTE.

PAVEMENT MARKING DETAILS

1. THE STOP LINE SHOULD BE PLACED AT THE DESIRED STOPPING POINT, IN NO CASE MORE THAN 30 FEET OR LESS THAN 4' FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY.

PROJECT WEATHERSFIELD-WINDSOR
HARTLAND

NO. HMA 2645
HMA 2616
SHEET 21 OF 27 SHEETS