

STATE OF VERMONT AGENCY OF TRANSPORTATION

Date AUG 13 1985
Coolidge Asphalt Paving
 Contractor
Walter A. Laprade
 Signature
President
 Title

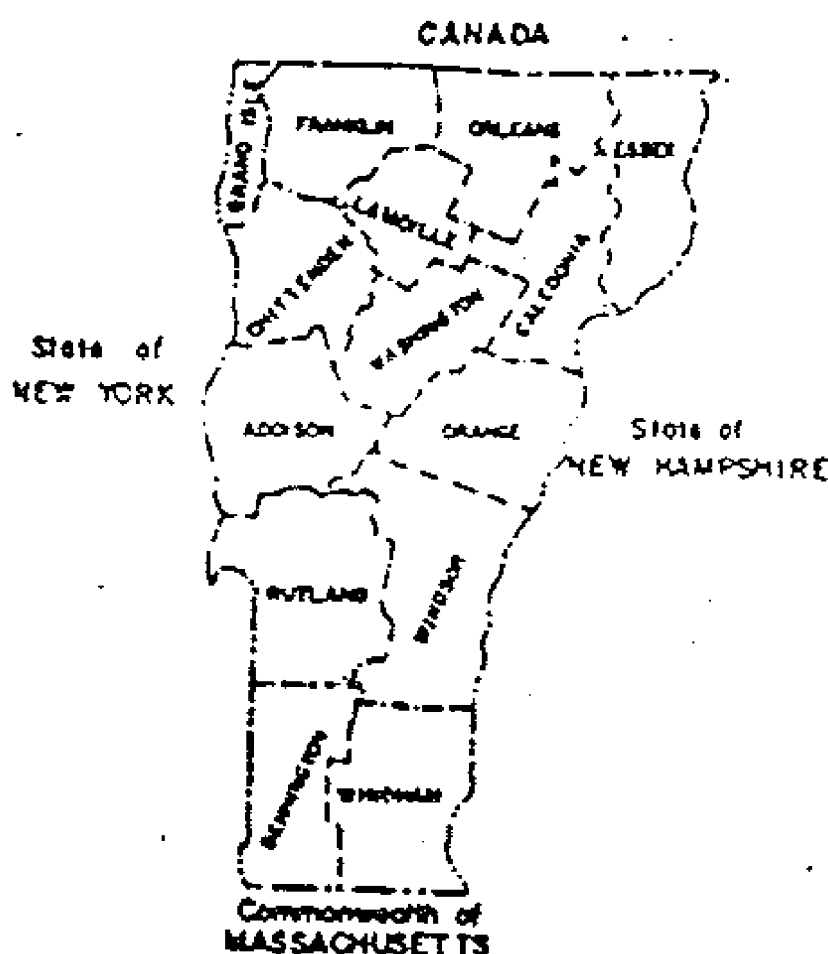
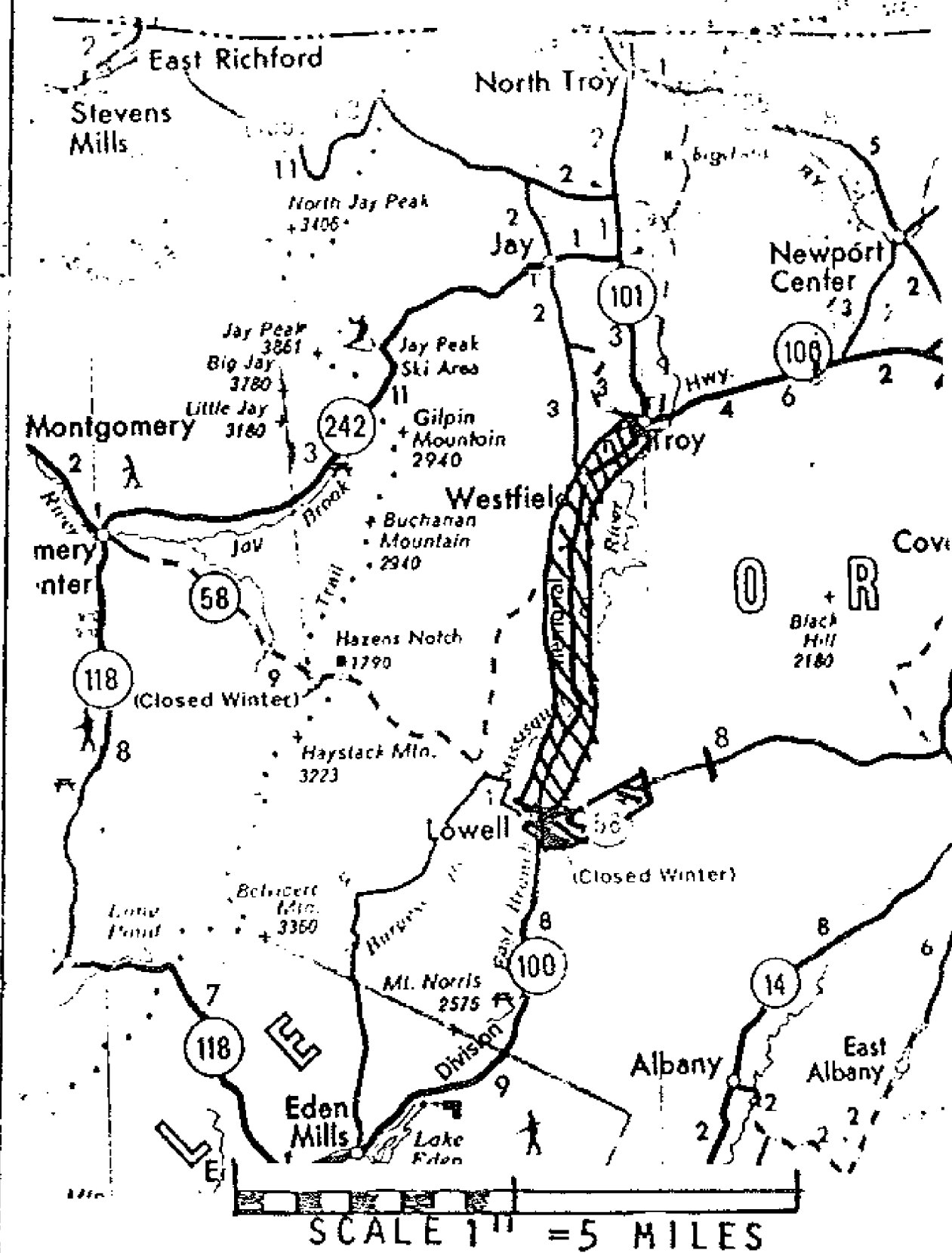


CONTRACT PLANS

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

Jusa C. Campbell
 Transportation Secretary's
 Signature

PROPOSED IMPROVEMENT
 RESURFACING PROJECT
 TOWN OF: LOWELL- LOWELL WESTFIELD
 COUNTY OF: ORLEANS
 ROUTE NO: VT 58 = VT 100
 ROUTE CLASS: FAS FAP



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, 1976 for use on this project, including all subsequent revisions and such revised specifications and special provisions as are incorporated in these plans.

**PROJECT PROCESSED UNDER
SECONDARY ROAD PLAN**

SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD
 APPROVED [Signature] DATE _____
 DIRECTOR OF ENGINEERING AND CONSTRUCTION
 DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 APPROVED _____ DATE _____
 DIVISION ADMINISTRATOR
 PROJECT NO. RS 0308(6) -
FO29-2(8)6
 SHEET 1 OF 20 SHEETS

SEE SHEET 2 FOR INDEX

INDEX

- 1. TITLE PAGE
- 2. INDEX OF SHEETS
- 3.3A COMPOSITE QUANTITY SHEET

LOWELL VT-58

- 4. PROJECT LOCATION AND DESCRIPTION
- 5. TYPICAL SECTIONS AND DESIGN DATA
- 6.6A PROJECT LENGTHS AND ITEM QUANTITIES
- 7. CENTERLINE DATA

LOWELL-WESTFIELD VT-100

- 8. PROJECT LOCATION AND DESCRIPTION
- 9. TYPICAL SECTIONS AND DESIGN DATA
- 10.10A PROJECT LENGTHS AND ITEM QUANTITIES
- 11. CENTERLINE DATA

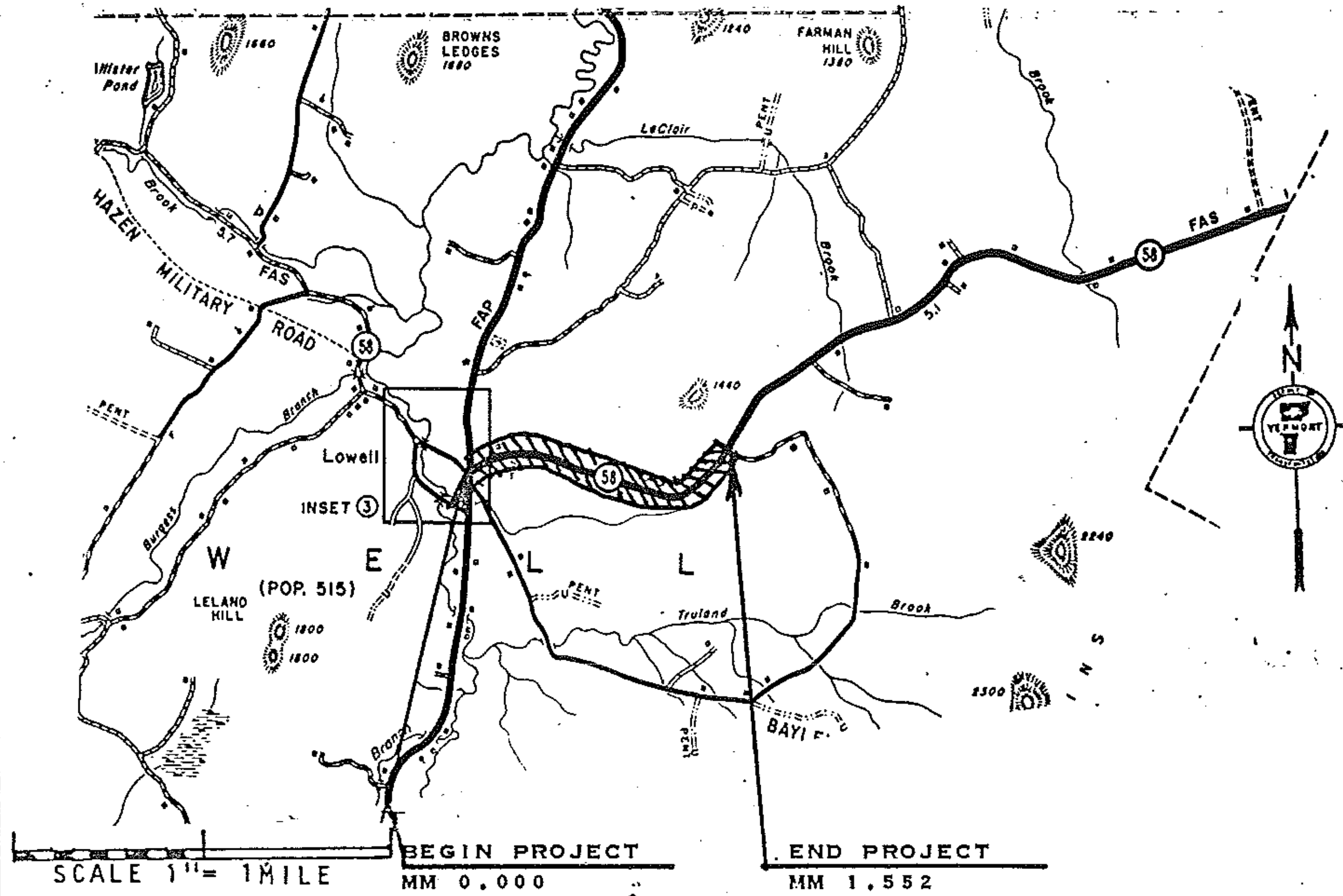
- 12. MARKING AT INTERSECTIONS
- 13. STOP BAR DETAILS
- 14. GUIDELINES FOR MINIMUM PAVEMENT MARKINGS
- 15. BLANK
- 16. STANDARD SHEET E-2 (3-4-81R)
- 17. BLANK
- 18. STANDARD SHEET E-6 (4-1-81R)
- 19. STANDARD SHEET E-8 (6-15-83R)
- 20. STANDARD SHEET E-50 (3-16-82R)

COMPOSITE QUANTITIES

LENGTH
646.64
WIDTH
646.66
DURABLE 24" STOP BAR
653.10
DURABLE LETTER IN WORD MARKING
TOPSOIL

ITEM DESCRIPTION		ITEM NUMBER										REMARKS
UNIT	FEET	FT	LF	EA	CY							
LOWELL			12	13	40							
LOWELL-WESTFIELD				12	180							
PROJECT												
ROUNDING												
TOTAL			12	25	220							

PROJECT DESCRIPTION AND LOCATION



VT 58- IN THE TOWN OF LOWELL BEGINNING AT MM0.000 AND EXTENDING
1.552 MILES EASTERLY TO MM 1.552.

LENGTH OF PROJECT
1.552 MILES
8195 FEET

PROJECT LOWELL

NO. RS 0308(6)

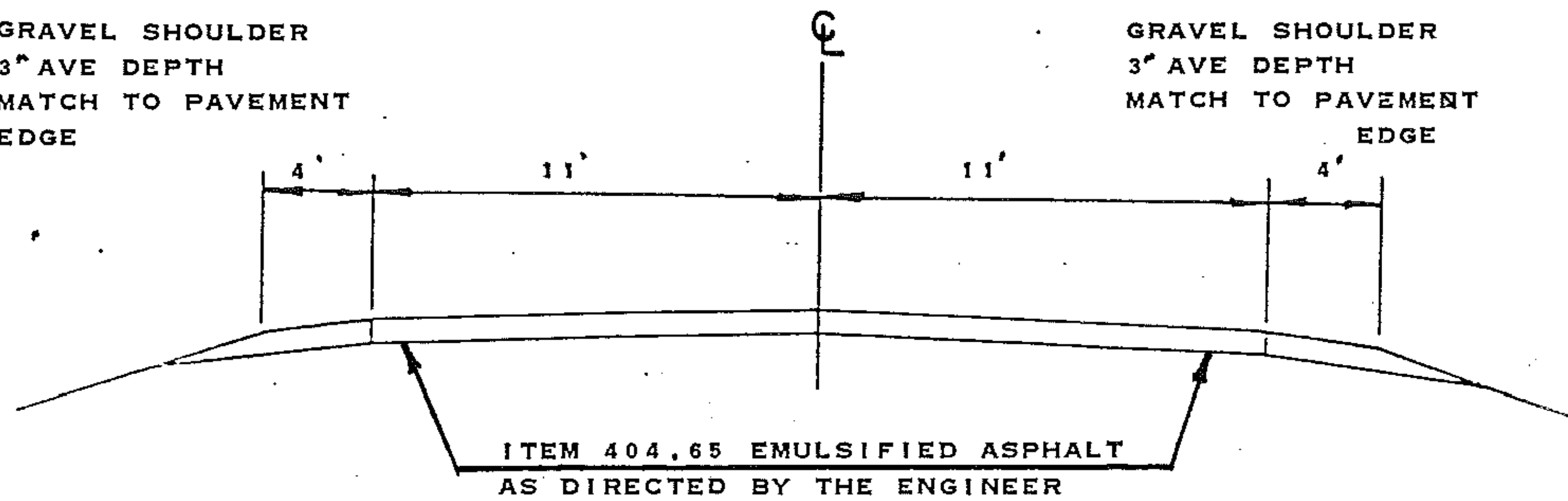
SHEET 4 OF 20 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE TYPE III OR IV (250 TONS/MILE)
AS DIRECTED BY THE ENGINEER
3/4" WEARING COURSE (± 1/4") TYPE IV

GRAVEL SHOULDER
3" AVE DEPTH
MATCH TO PAVEMENT
EDGE

GRAVEL SHOULDER
3" AVE DEPTH
MATCH TO PAVEMENT
EDGE



1982 ADT 630
V 50

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.

PROJECT LOWELL

NO. RS 0308(6)

SHEET 5 OF 20 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	LENGTH WIDTH 24" STOP BAR DURABLE LETTER IN WORD MARKING TOPSOIL											REMARKS		
ITEM NUMBER	UNIT	FEET	FT	LF	EA.	C.Y.								
	MM 0.01				4									STOP
	MM 0.14				9									STOP AHEAD
	MM 0.00			12										
	PROJECT					31								
	ROUNDING					9								
				12	13	40								

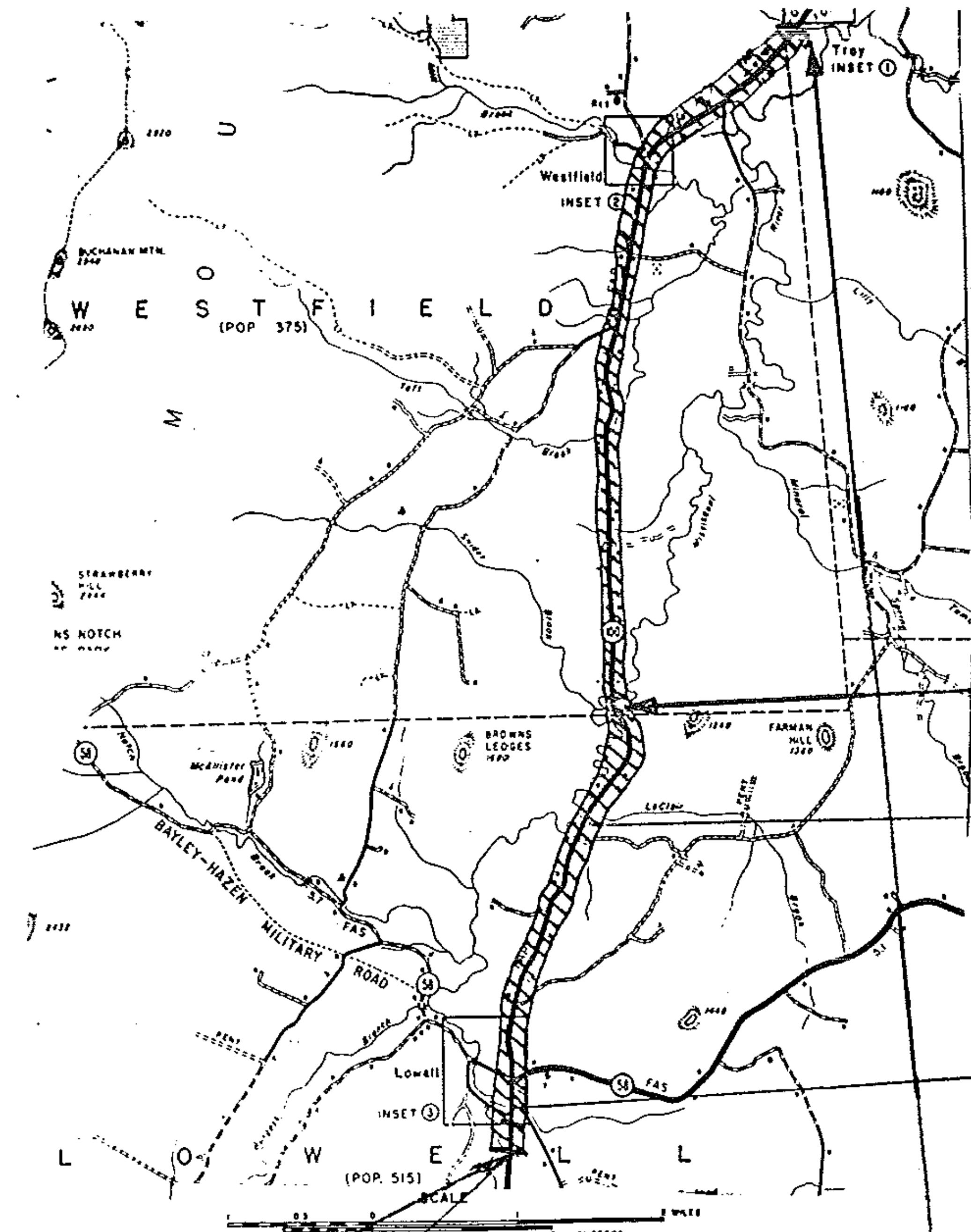
TEMPORARY 4" REFLECTORIZED YELLOW LINE

MILE	MILE	LT	RT	Length LT	Length RT	Total Length LT+RT
0.00	0.72	Solid	Solid	3802	3802	7604
0.72	0.88	Solid	Dash	845	211	1056
0.88	0.97	Dash	Dash	145	110	255
0.97	1.13	Dash	Solid	211	845	1056
1.13	1.53	Solid	Solid	2112	2112	4224
1.53	1.552	Solid	Dash	116	29	145
						14,230
1 x 40 x 2						80
ASSUME 75% IS LOST DURING SHIMMING						14,150
$14,150 \times 175\% = 24,762$						
SPECIAL MARKING - See STD E-5						
0.01	LT	STOP	(Paint STOP)			4 ea
0.14	LT	STOP AHEAD	(Paint STOP AHEAD)			9 ea
ITEM 646.23 Letter In Word Marking - Total						13 ea
0.00	LT	Paint 24" STOP Bar Item 646.20				12 LF

TEMPORARY 4" REFLECTORIZED WHITE LINE

0.00	1.552	Solid	Solid	8195	8195	16,390
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PROJECT DESCRIPTION AND LOCATION



BRIDGE 241
DO NOT PAVE
MM 0.12

BRIDGE 239
MM 6.222
DO NOT PAVE

BRIDGE 236
MM 3.590
TOP COURSE ONLY

END PROJECT
MM 4.686

BEGIN PROJECT
MM 2.650

BRIDGE 234
MM 2.876 TOP COURSE ONLY

VT 100 - IN THE TOWN OF LOWELL BEGINNING AT MM 2.650 AND EXTENDING 9.067 MILES NORTHERLY TO MM 4.686 IN THE TOWN OF WESTFIELD.

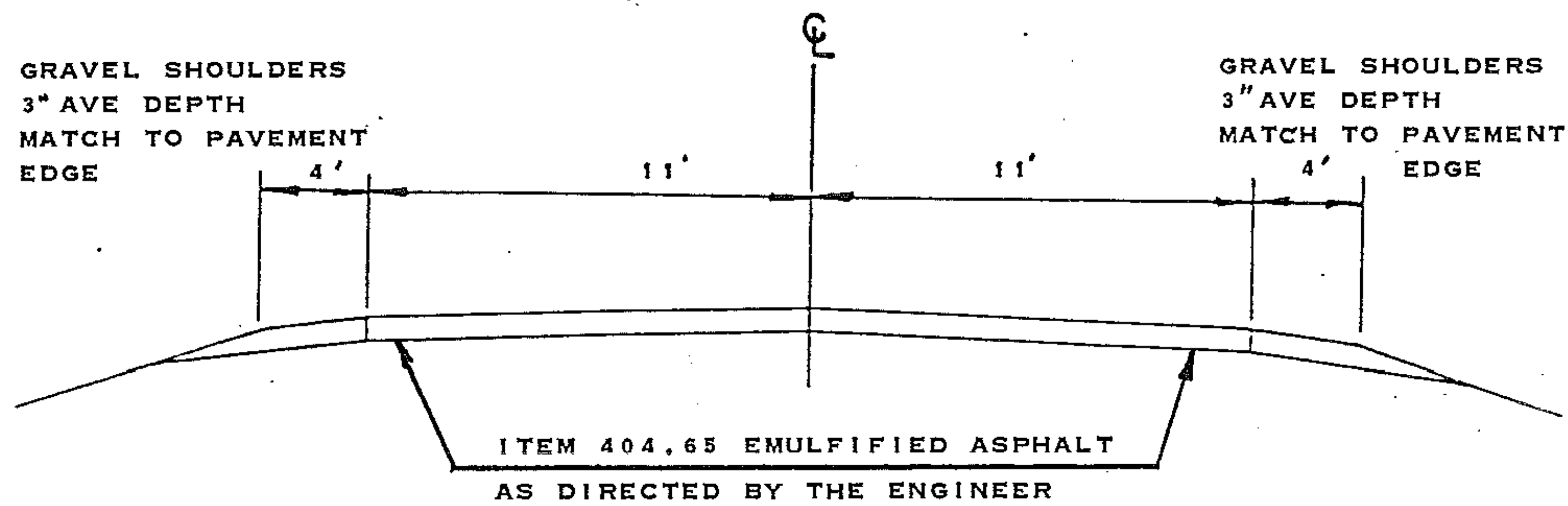
LENGTH OF PROJECT
9.067 MILES
47,874 FEET

PROJECT LOWELL-WESTFIELD

NO. F 029-2(8)S
SHEET 8 OF 20 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVEL COURSE TYPE III OR IV (250 TONS/MILE)
AS DIRECTED BY THE ENGINEER
3/4" WEARING COURSE ($\pm 1/4$) TYPE IV



1982 ADT 1150
V 50

PROJECT LOWEL-WESTFIELD

NO. F 029-2(8)S

SHEET 9 OF 20 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION

ITEM NUMBER

LENGTH
 WIDTH
 OVERLAY DEPTH
 GRAVEL SHOULDERS
 GRAVEL SHOULDERS
 EMULSIFIED ASPHALT
 BITUMINOUS CONCRETE PAVEMENT
 CHANGE ELEV. OF CB, DL, OR MI
 ALL PURPOSE EXC. RENTAL, TYPE I
 POWER BROOM RENTAL
 INFORMED TRAFFIC OFFICERS
 FLAGPERSONS
 MOBILIZATION
 TEMPORARY PAVEMENT
 MARKING- White
 TEMPORARY PAVEMENT
 MARKING- Yellow

402.10
 402.11
 404.65
 406.25
 604.40
 608.25
 608.30
 630.10
 630.15
 635.10
 646.35
 646.36

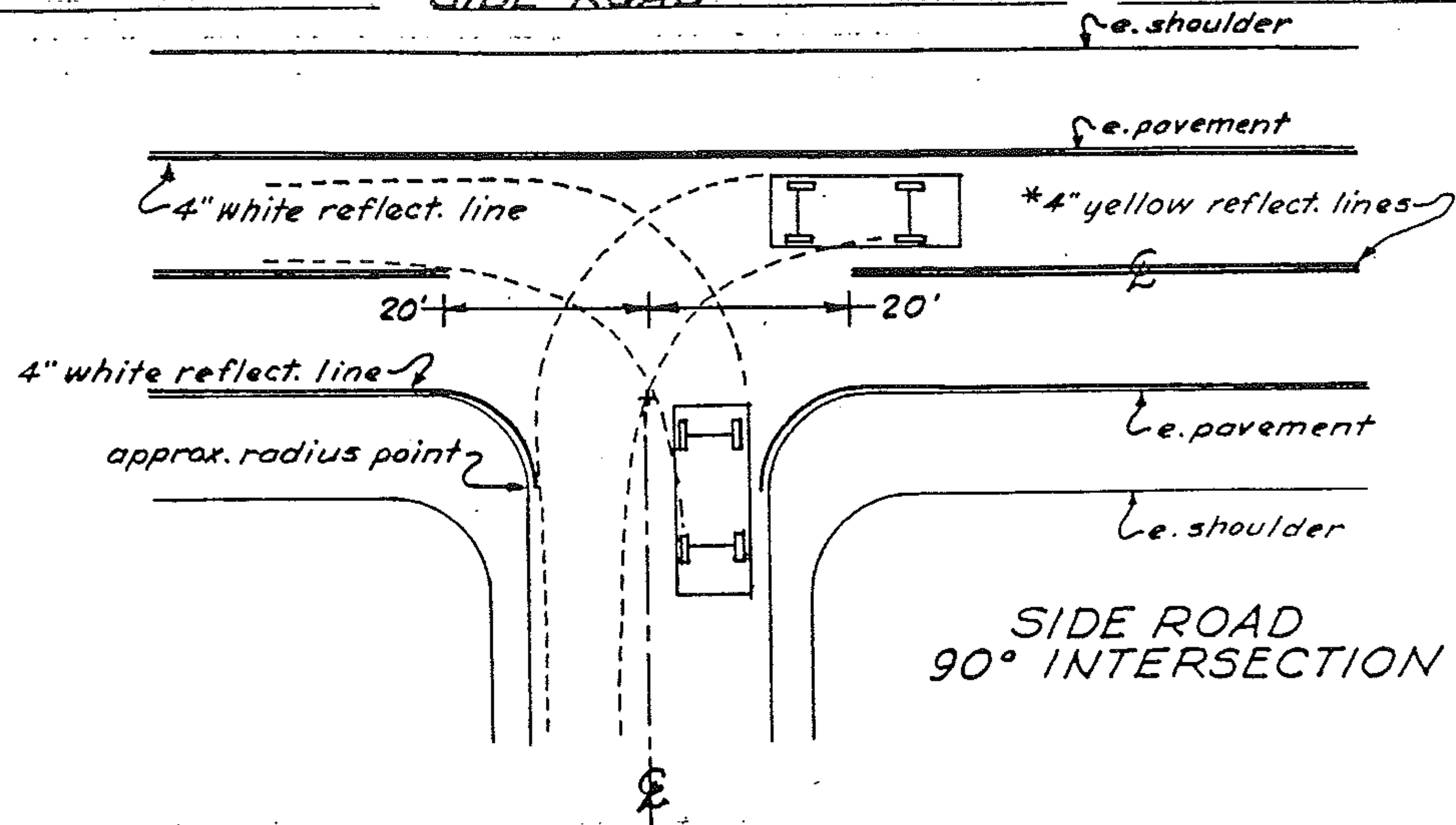
REMARKS

UNIT	FEET	FT	INCH	CY	TON	CMT	TON	EA	HR	HP	HR	HP	LS	LF	REMARKS
LOWELL WESTFIELD															
MM 2.65 - 4.686	47874	22	3/4'	3546	6205	146	4876								
							2267								level 250 T/M
Proj Estimate				200	350	10	50	1	5	73	180	180	.82	93330	132426
ROUNDING				54	45	4	57		7					70	74
TOTAL				3800	6600	160	7250	1	5	80	180	180	.82	93400	132500

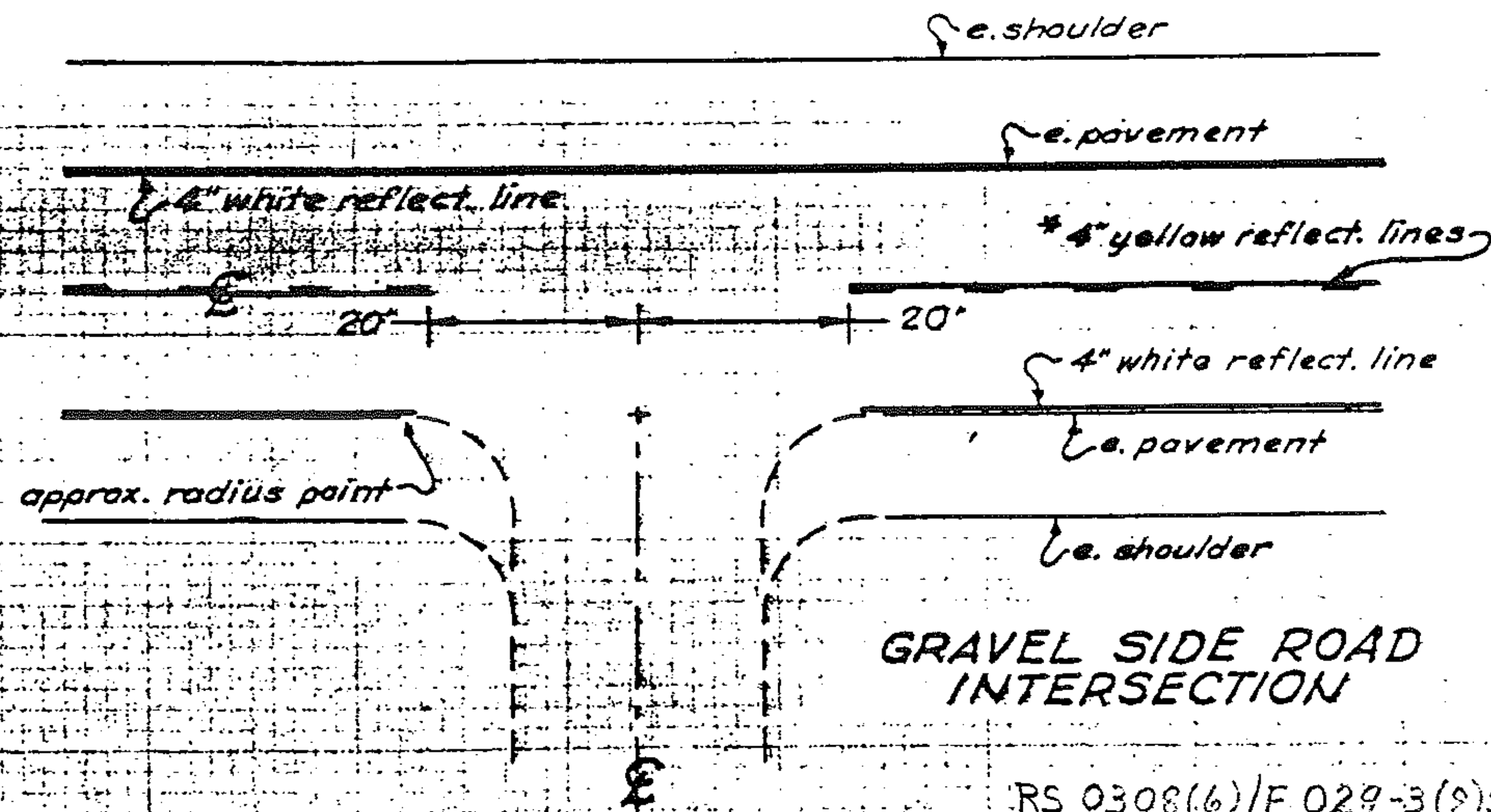
PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION													REMARKS
ITEM NUMBER													
UNIT	FEET	FT	C.Y.	EA	653.10	646.66	TOPSOIL	DURABLE LETTER IN WORD MARKING					
PROJECT			177										
ROUNDING			3										
MM 3.73 RT				6									SCHOOL
MM 3.92 LT				6									SCHOOL
TOTAL			180	12									

	MILE	MILE	LT	RT	QUANTITY LT	QUANTITY CL	QUANTITY RT	TOTAL	
LOWELL	2.65	3.35	Solid	Solid	3696		3696	7392	
	3.35	3.45	Solid	Solid	528		528	1056	
	3.45	3.54	Solid	Solid	475		475	950	
	3.54	3.67	Solid	Dash	686		172	858	
	3.67	4.10	Dash	Dash		568		568	
	4.10	4.17	Dash	Solid	92		370	462	
	4.17	4.68	Solid	Solid	2693		2693	5386	
	4.68	4.82	Solid	Dash	739		185	924	
	4.82	4.91	Solid	Solid	475		475	950	
	4.91	4.99	Solid	Dash	422		106	528	
	4.99	5.03	Dash	Dash		53		53	
	5.03	5.16	Dash	Solid	172		686	858	
	5.16	5.75	Solid	Solid	3115		3115	6230	
	5.75	5.87	Solid	Dash	634		158	792	
	5.87	6.14	Solid	Solid	1426		1426	2852	
	6.14	6.22	Solid	Dash	422		106	528	
	6.22	6.47	Dash	Dash		330		330	
	6.47	6.52	Dash	Solid	66		264	330	
Town Line	6.52	7.03	Solid	Solid	2693		2693	5386	
WEST FIELD	0.00	0.34	Solid	Solid	1795		1795	3590	
	0.34	0.46	Solid	Dash	634		158	792	
	0.46	0.58	Dash	Solid	158		634	792	
	0.58	0.84	Solid	Solid	1373		1373	2746	
	0.84	0.98	Solid	Dash	739		185	924	
	0.98	1.12	Dash	Solid	185		739	924	
	1.12	1.16	Solid	Solid	211		211	422	
	1.16	1.28	Solid	Dash	634		158	792	
	1.28	1.29	Solid	Solid	53		53	106	
	1.29	1.42	Dash	Solid	172		686	858	
	1.42	2.17	Solid	Solid	3960		3960	7920	
	2.17	2.23	Solid	Dash	317		79	396	
	2.23	2.34	Dash	Dash		145		145	
	2.34	2.47	Dash	Solid	172		686	858	
	2.47	2.77	Solid	Solid	1584		1584	3168	
	2.77	2.92	Solid	Dash	792		198	990	
	2.92	2.99	Dash	Dash		92		92	
	2.99	3.12	Dash	Solid	172		686	858	
	3.12	3.15	Solid	Solid	158		158	316	
	3.15	3.28	Solid	Dash	686		172	858	
3.28	3.45	Dash	Dash		224		224		
3.45	3.51	Dash	Solid	79		317	396		
3.51	4.20	Solid	Solid	3643		3643	7286		
4.20	4.33	Solid	Dash	686		172	858		
4.33	4.49	Solid	Solid	845		845	1690		
4.49	4.68	Dash	Solid	251		1003	1254		
4.68	4.686	Solid	Solid	32		32	64		
Assume 75% Lost During Shimming								Total	75752
Vel. & TOTAL = 175% X 75672 = 132426								TH @ 40' x 2 = 80	75672
Temporary 4" ReflectORIZED White Line									
2.878	7.03	Solid	Solid	21,923		21,923	43,846		
0.00	4.686	Solid	Solid	24,742		24,742	49,484		
								4" White TOTAL =	93,330
WESTFIELD DURABLE LETTER IN WORD MARKING									
3.73	RT		SCHOOL			6ea	6ea		
3.92	LT	SCHOOL				6ea	6ea		
								Total =	12ea



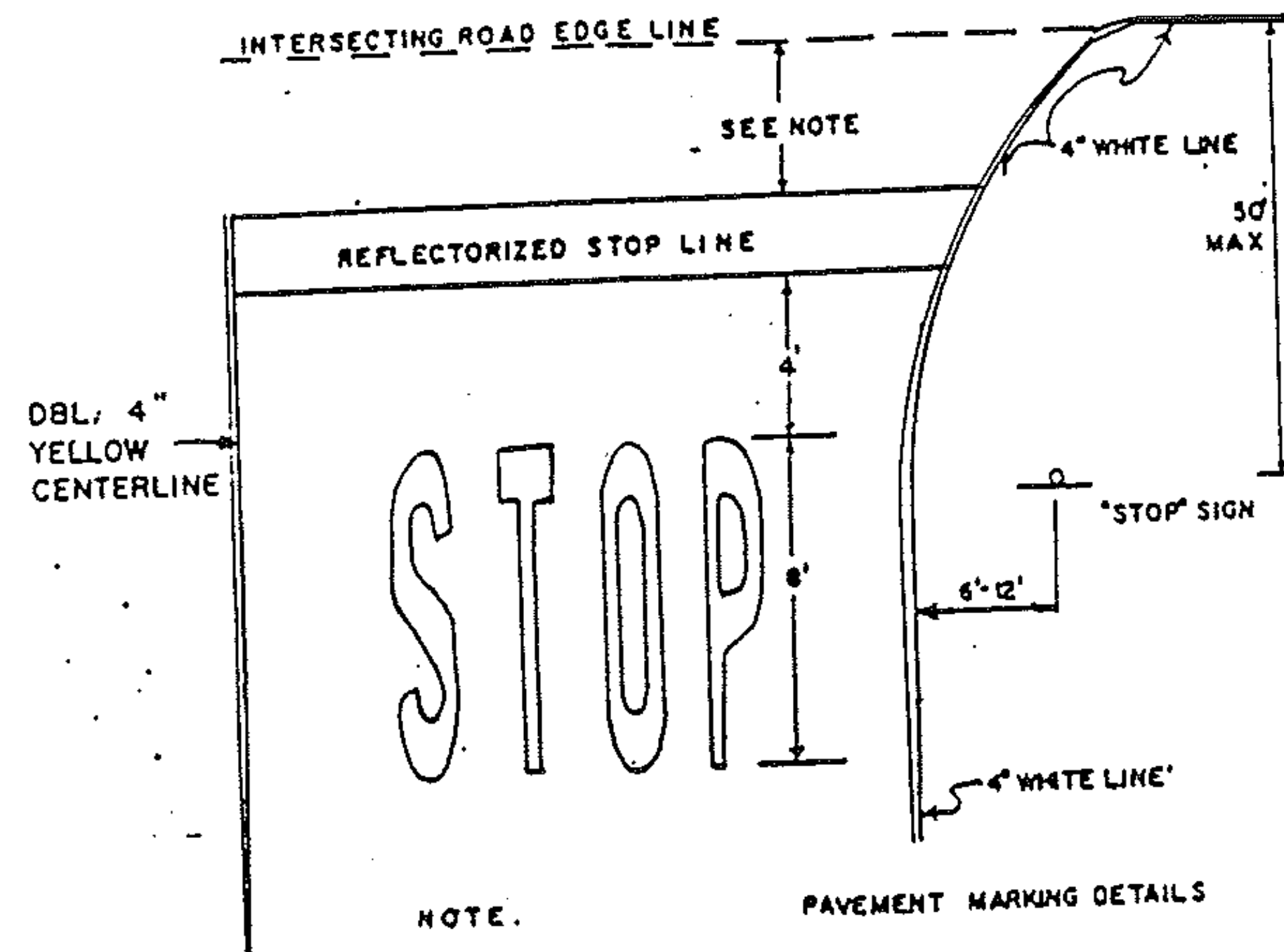
* Centerline treatment shall consist of a minimum of 400 feet of solid line in advance of the intersection and shall be paired with either a solid or dashed line depending on sight distance availability in the opposing lane.



RS 0308(6)/F 029-3(2)S

STOP BAR DETAILS

13.



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, OR EDGE OF CROSSWALK.

AHEAD

NOTE:
SEE STANDARD E-50
FOR LETTERING DETAIL.

8'
16'
16'

STOP AHEAD SIGN

STOP

- 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.

REVISED - RS 0308(6)
01/12/85 F 029-3(8)S

Sheet 14 Of 20