

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.

PROPOSED IMPROVEMENT

Jusa C. Campbell
Transportation Secretary's
Signature

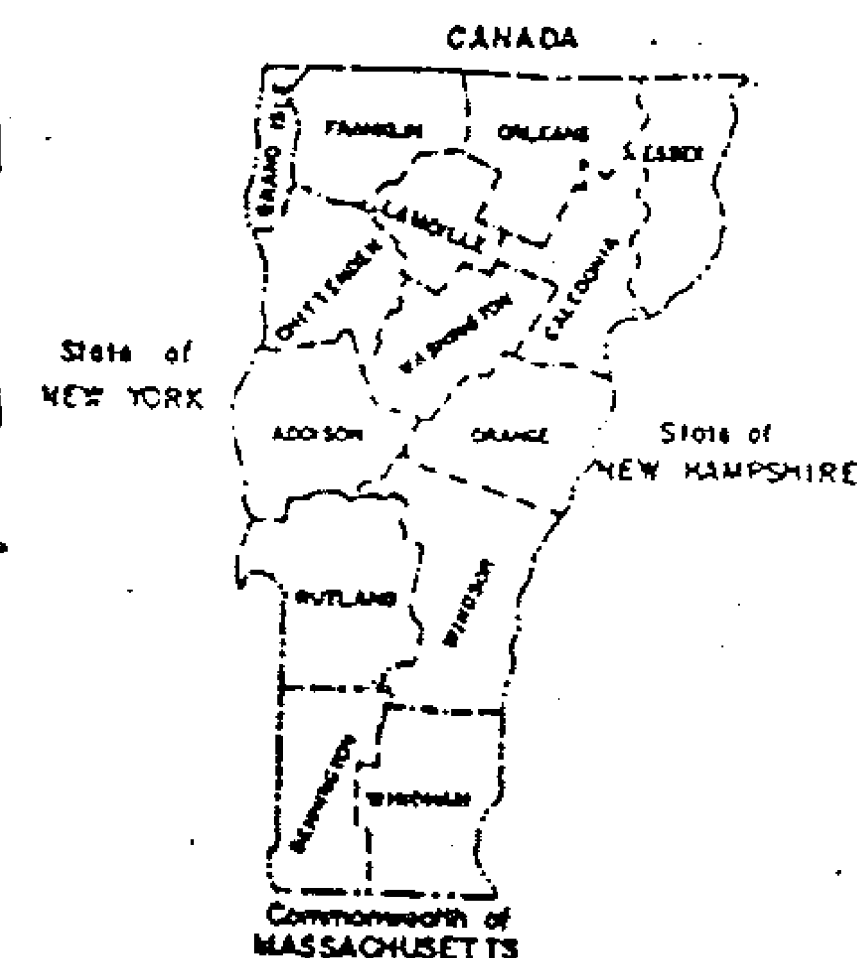
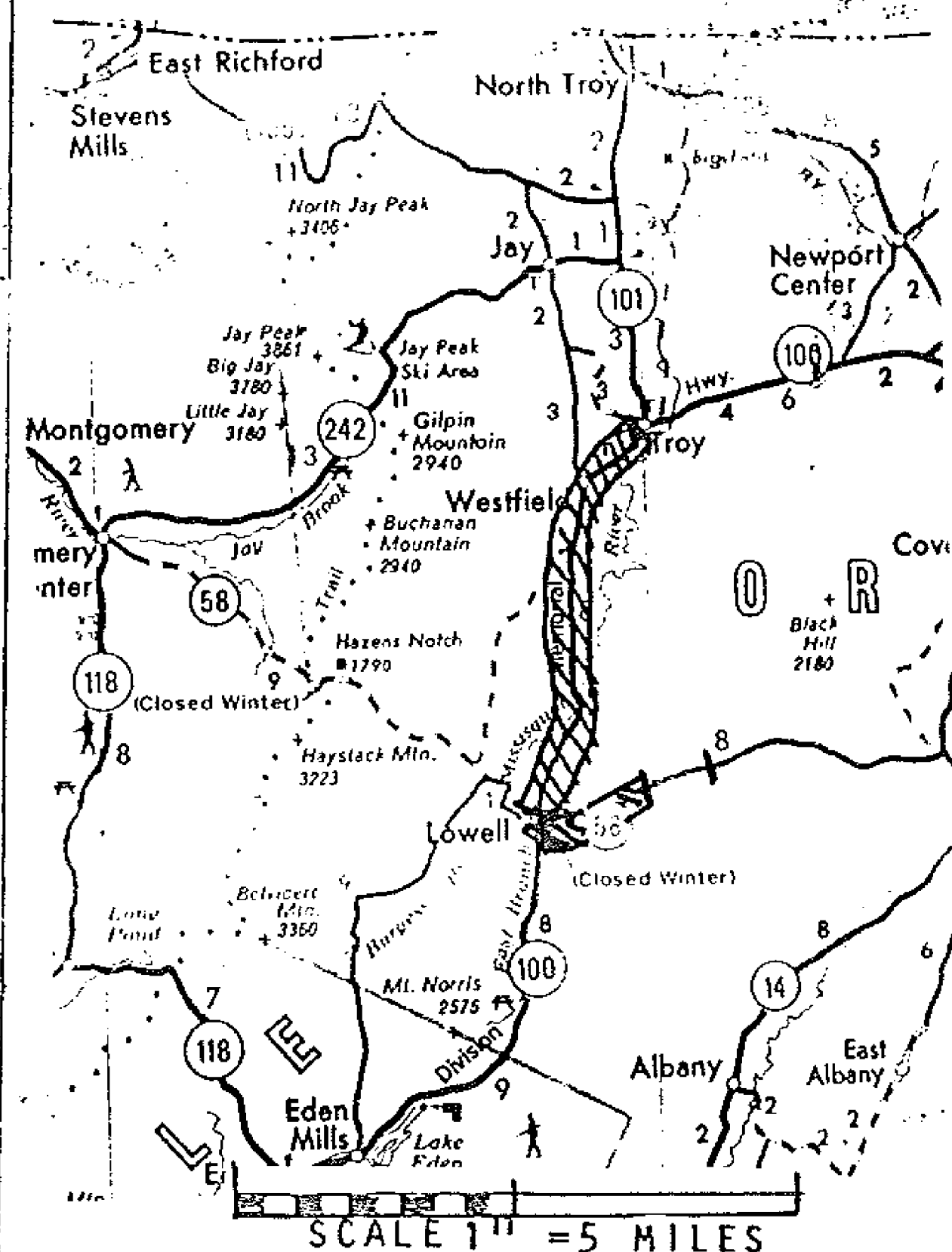
RESURFACING PROJECT

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 Walter A. Laprade 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

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LOWELL-WESTFIELD VT-100

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COMPOSITE QUANTITIES

COMPOSITE QUANTITIES																	
ITEM DESCRIPTION																	
ITEM NUMBER																	
LENGTH																	
WIDTH																	
OVERLAY DEPTH																	
COLD PLANING BIT. CONC. PAVT.																	
GRAVEL SHOULDERS																	
GRAVEL SHOULDERS																	
EMULSIFIED ASPHALT																	
BITUMINOUS CONCRETE PAVEMENT																	
CHANGE ELEV. OF CB, DL, OR MH																	
ALL PURPOSE EXC. RENTAL, TYPE I																	
POWER BROOM RENTAL																	
UNIFORMED TRAFFIC OFFICERS																	
FLAGPERSONS																	
MOBILIZATION																	
TEMPORARY PAVEMENT MARKING WHITE																	
TEMPORARY PAVEMENT MARKING-YELLOW																	
REMARKS																	
UNIT	FEET	FT	INCH	S.Y.	CY	TON	CWT	TON	EA	HR	HR	HR	HR	I.S	LF	LF	
LOCATION																	
LOWELL																	
MM 0.000-1.552	8295	22	3/4		650	1050	30	1300	1	5	20	40	40	.18	16400	24800	
Lowell-Westfield																	
MM 2.65-4.686	47874	22	3/4		3800	6600	160	7250	1	5	80	180	180	.82	93400	132500	

PROJECT LOWELL - LOWELL * WESTFIELD NUMBER RS 0308(6) SHEET 3 OF 20
F 029-2(8)S

COMPOSITE QUANTITIES

COMPOSITE QUANTITIES																
ITEM DESCRIPTION						LENGTH WIDTH 646.64 646.66 653.10 DURABLE 24" STOP BAR DURABLE LETTER IN WORD MARKING TOPSOIL										
ITEM NUMBER																REMARKS
UNIT	FEET	FT	LF	EA	CY											
LOWELL			12	13	40											
LOWELL-WESTFIELD				12	180											
PROJECT																
ROUNDING																

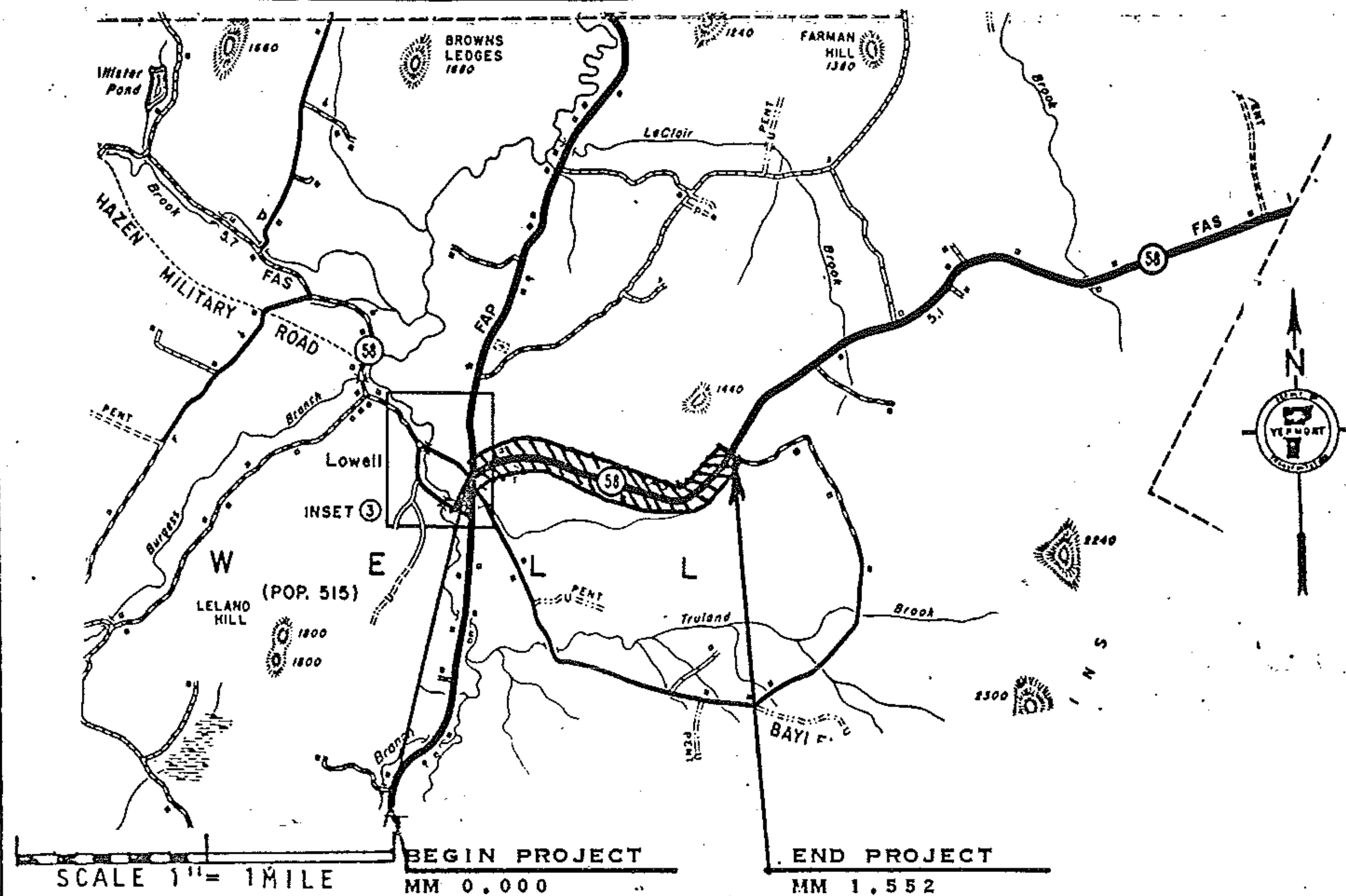
PROJECT LOWELL-LOWELL*WESTFIELD

NUMBER

RS 0308(6)
F 029 2(8)S

SHEET 3A OF 20

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)

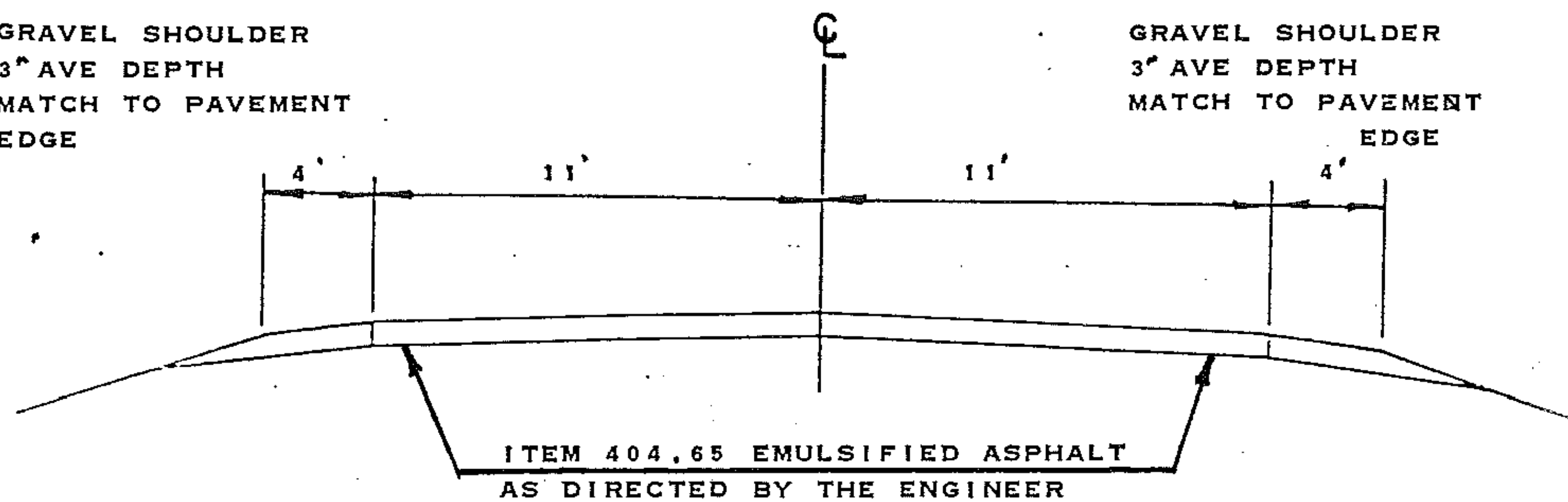
SHEET 4 OF 20 SHEETS

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		OVERLAY DEPTH		GRAVEL SHOULDERS		EMULSIFIED ASPHALT		BITUMINOUS CONCRETE PAVEMENT		CHANGE ELEV. OF CB, DL, OR MI		ALL PURPOSE EXC. RENTAL, TYPE I		POWER BROOM RENTAL		ENFORCED TRAFFIC OFFICERS		FLACPEPSONS		MOBILIZATION		TEMPORARY PAVEMENT MARKING- White		TEMPORARY PAVEMENT MARKING- Yellow	
ITEM NUMBER		402.10		402.11		404.65		406.25		604.40		608.25		608.30		630.10		630.15		635.10		646.35		646.36					
UNIT	FEET	FT	INCH	S.Y.	CY	TON	CVT	TON	EA	HR	HP	HR	HP	LS	LF														
LOCATION																													
LOWELL																													
MM 0.00-1.552	8195'	22	3/4'		607	1002	25	835																					
								388																					
Proj Estimate					20	30	3	50	1	5	12	33	33	.18	16390	24762													
Rounding					23	18	2	27			8	7	7		10	38													
								</																					

PROJECT LOWELL

NUMBER RS 0308(6)

SHEET 6 OF 20

PROJECT LENGTHS AND ITEM QUANTITIES

[illegible]

PROJECT.

LOWELL

NUMBER RS 0308(6)

SHEET 6A OF 20

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	145
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

1x40x2

ASSUME 75% Is Lost During Shimming

14,230
80

14150 x 175% = 24762

14150

SPECIAL MARKING - See STD E-5

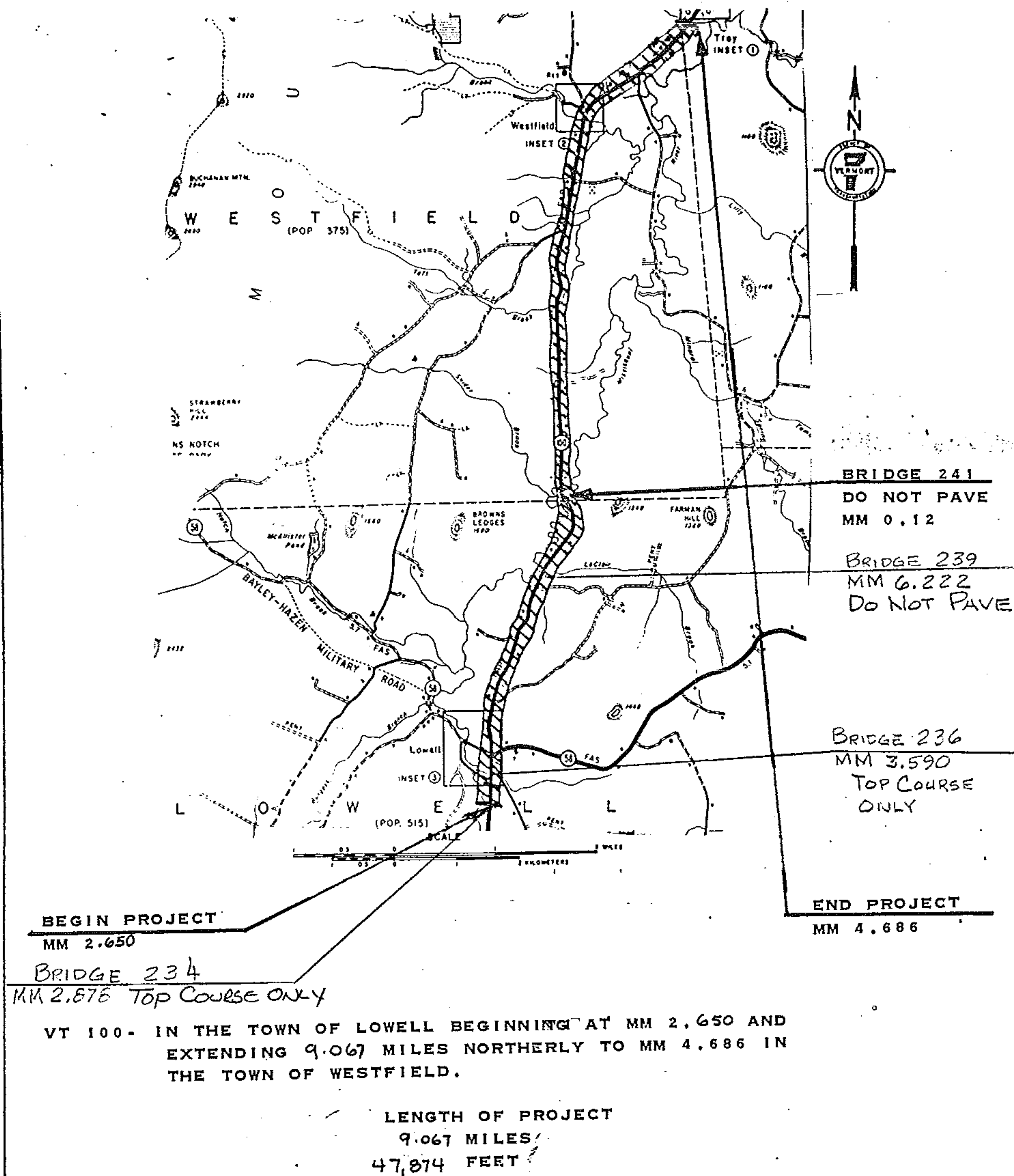
0.01	LT	STOP	(Paint STOP)			4 ea
0.14	LT	STOP AHEAD	(Paint STOP Ahead)			9 ea
		ITEM 646.23 Letter In Word Marking - Total				13 ea

0.00	LT	Paint 24" STOP Bar	Item 646.20			12 LF
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TEMPORARY 4" REFLECTORIZED WHITE LINE

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



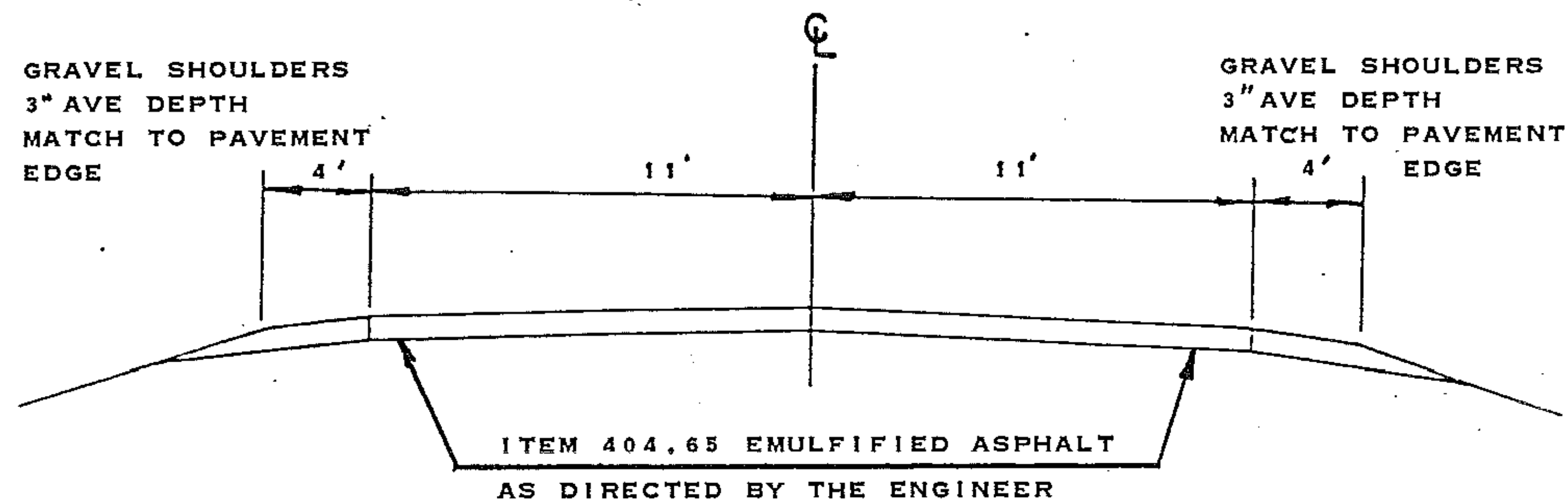
PROJECT LOWELL-WESTFIELD

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	UNIT	FEET	FT	INCH		CY	TON	CVT	TON	EA	HR	HR	HR	HF	LS	LF		REMARKS															
																				LENGTH	WIDTH	OVERLAY DEPTH	GRAVEL SHOULDERS	GRAVEL SHOULDERS	EMULSIFIED ASPHALT	BITUMINOUS CONCRETE PAVEMENT	CHANGE ELEV. OF CB, DI, OR MI	ALL PURPOSE EXC. RENTAL, TYPE I	POWER BROOM RENTAL	UNIFORMED 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			
LOWELL WESTFIELD	D																																	
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																

PROJECT LOWELL-WESTFIELD

NUMBER F 029-2(8)S

SHEET 10 OF 20

PROJECT LENGTHS AND ITEM QUANTITIES

[illegible]

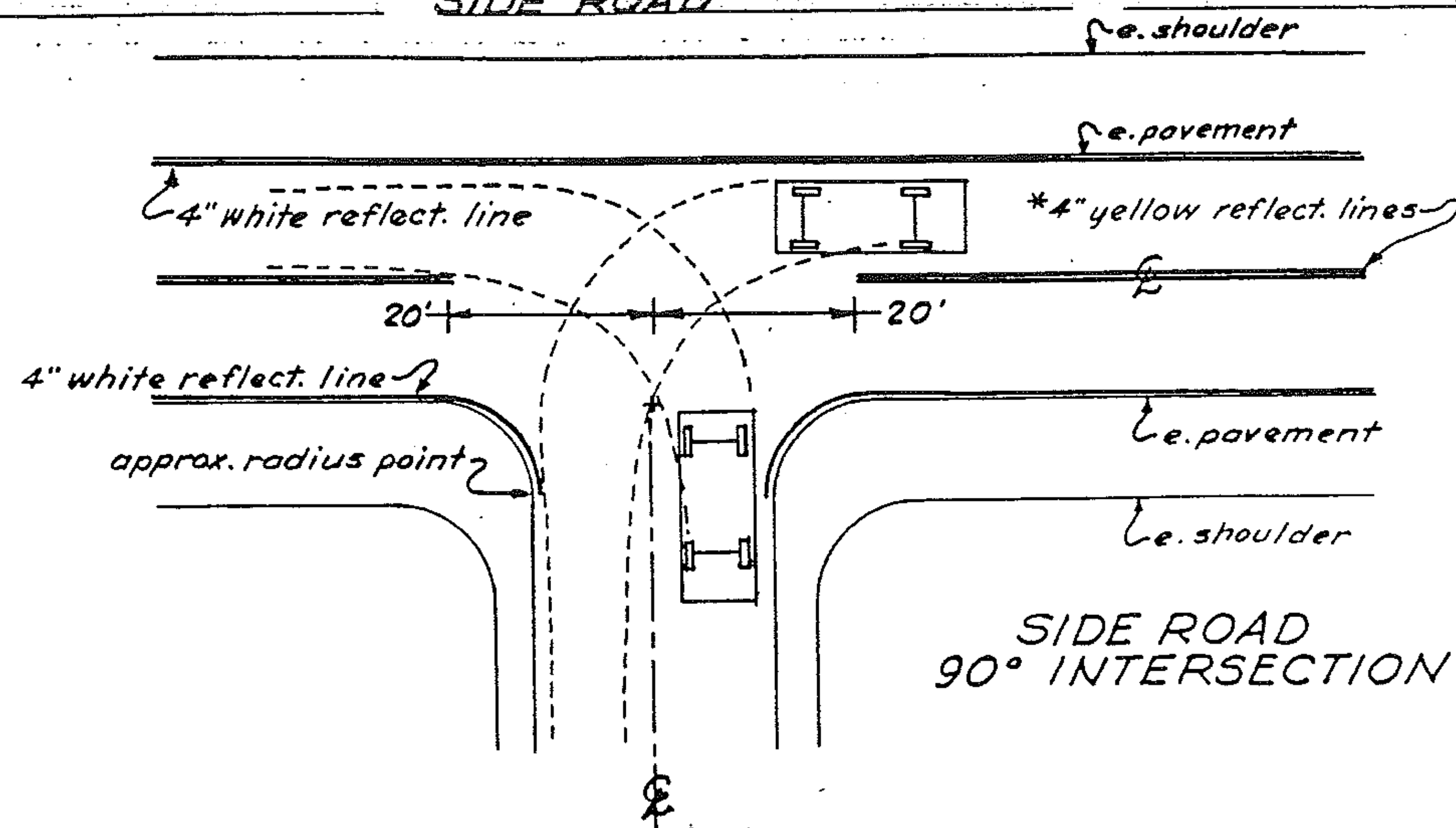
PROJECT TOWELL - WESTFIELD

NUMBER F 029-2(8)S

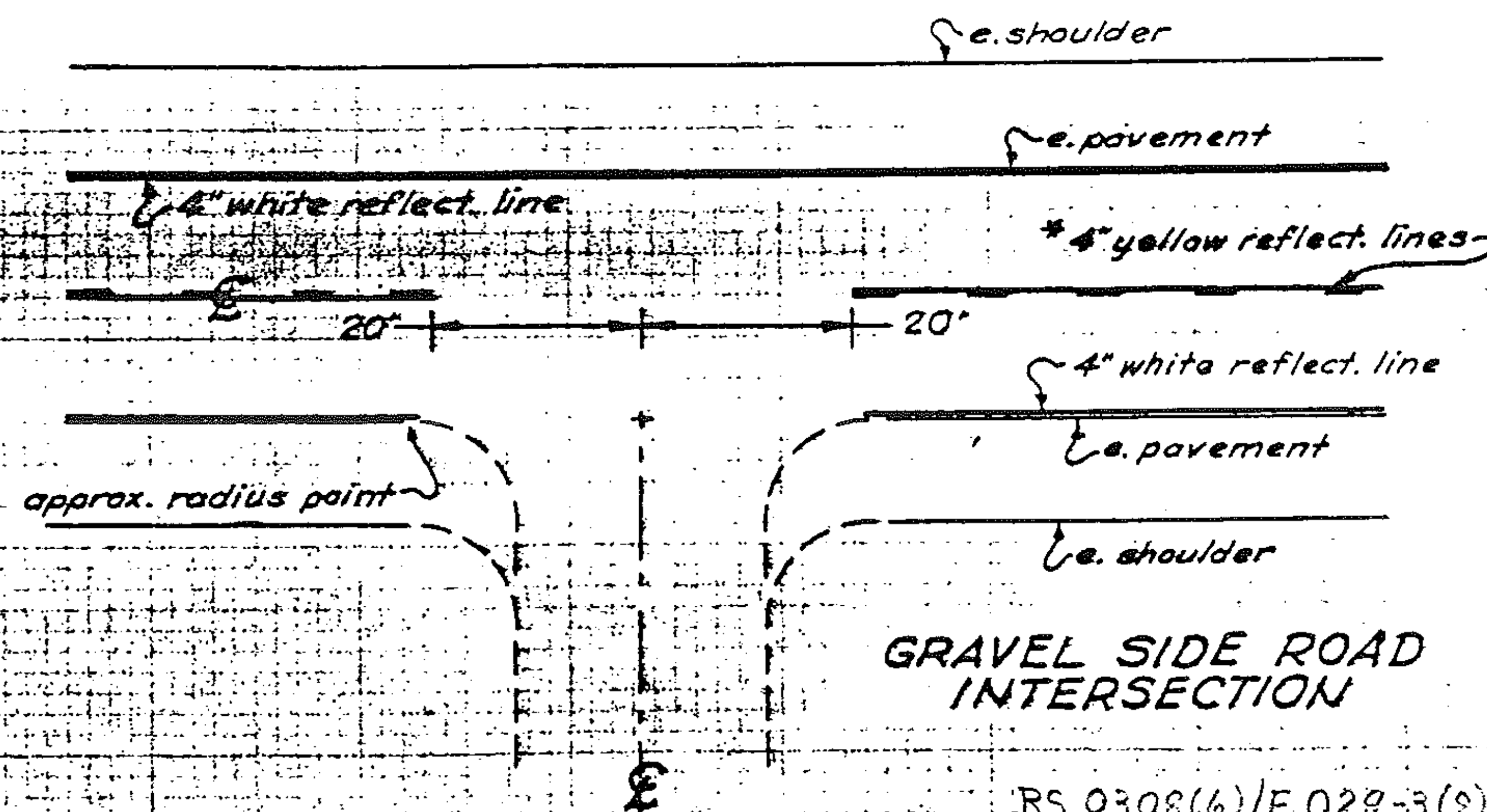
SHEET 10A OF 20

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	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/bk TOTAL = 175% X 75672 = 132426							174@40'x2=80	75672
	Temporary 4" ReStabilized 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		

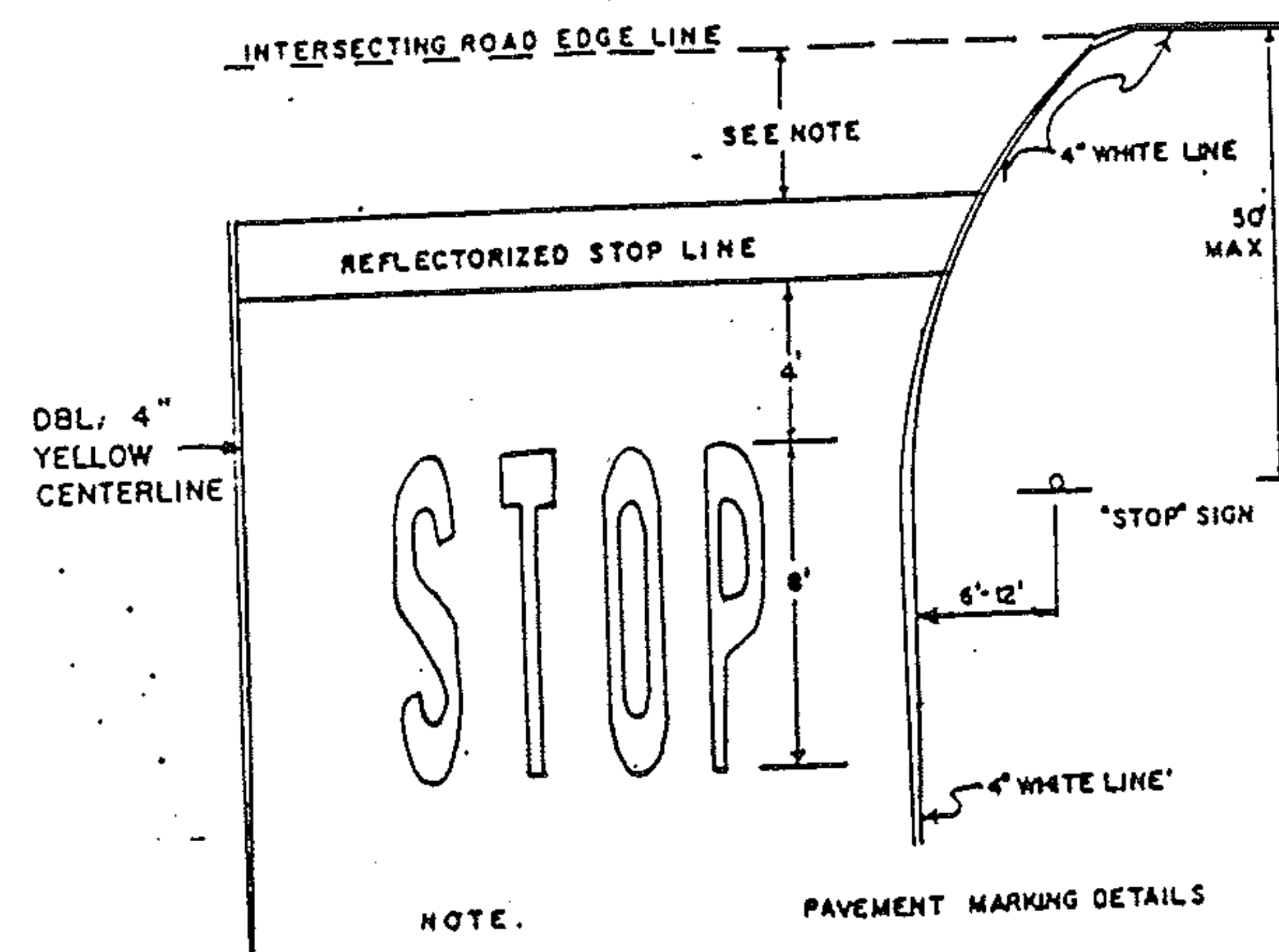


* Centerline treatment shall consist of a minimum of 400 feet of solid line in advance of the intersection and shall be paired with either a solid or dashed line depending on sight distance availability in the opposing lane.

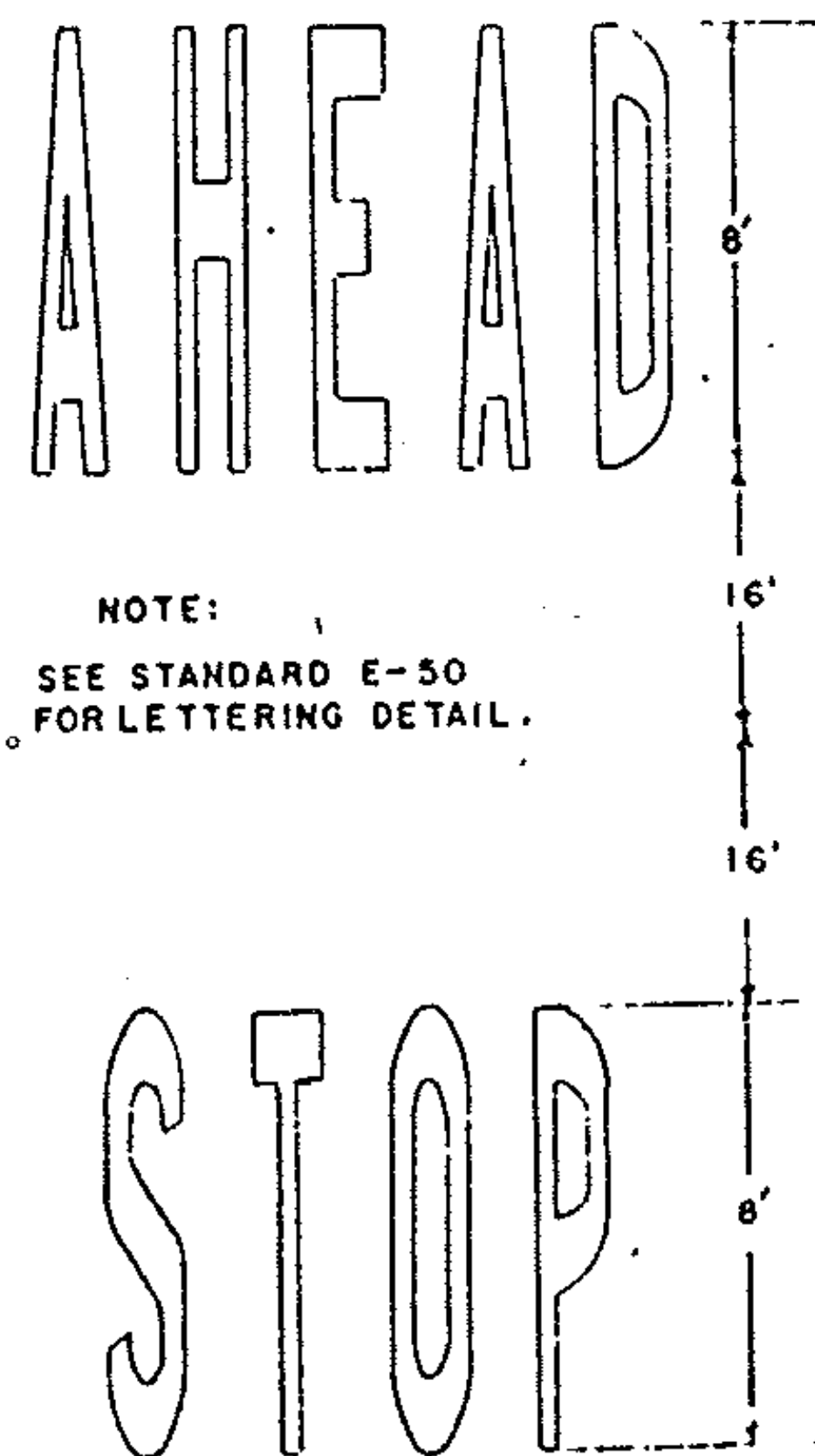


STOP BAR DETAILS

13.



- NOTE.
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.



NOTE:
SEE STANDARD E-30
FOR LETTERING DETAIL.

STOP AHEAD SIGN

- 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

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