

STATE OF VERMONT
AGENCY OF TRANSPORTATION



CONTRACT PLANS

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

PROPOSED IMPROVEMENT

RESURFACING PROJECTS

TOWNS OF IRASBURG, BARTON, GLOVER & COVENTRY

COUNTY OF ORLEANS

ROUTE NO. VT 58, VT 14, US 5, VT 16

ROUTE CLASS F.A.S., F.A.P.

PROJECT
AREA

FOR DESCRIPTIONS AND
LOCATIONS, SEE INDIVIDUAL
PROJECT SHEETS

Date SEP 18 1987

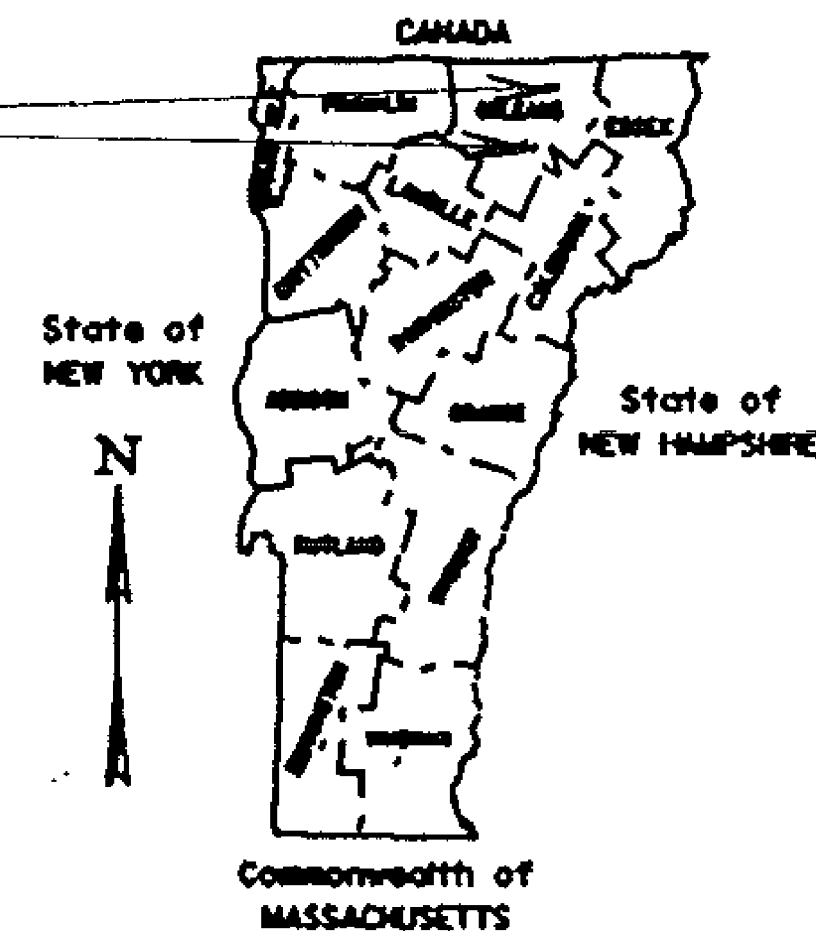
PIKE INDUSTRIES INC.
Contractor

D. Mout
Signature

VICE PRESIDENT
Title

David B. Kelley
Transportation Secretary's Signature

ACTING



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE CHIEF ENGINEER.
CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 1966, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 2, 1965
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 David B. Kelley DATE 8/4/87
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT NO.

SHEET 1 OF 26 SHEETS

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS
3	STD. SHEET: PAVING LIMITS
4	STD. SHEET: GUIDELINES FOR PAVEMENT MARKINGS
5	STD. SHEET: MARKING AT INTERSECTING SIDE ROAD
6	QUANTITIES SUMMARY
7	IRASBURG HMA 2844
8	DESCRIPTION AND LOCATION
9	TYPICAL SECTIONS & DESIGN DATA
10	PAVEMENT MARKINGS, LINE QUANTITIES
11	QUANTITIES
12	IRASBURG-COVENTRY HMA 2869
13	DESCRIPTION AND LOCATION
14	TYPICAL SECTIONS & DESIGN DATA
15	PAVEMENT MARKINGS, LINE QUANTITIES
16	QUANTITIES
17	BARTON HMA 2838
18	DESCRIPTION AND LOCATION
19	TYPICAL SECTIONS & DESIGN DATA
20	PAVEMENT MARKINGS, LINE QUANTITIES
21	QUANTITIES
22	GLOVER HMA 2856
23	DESCRIPTION AND LOCATION
24	TYPICAL SECTIONS & DESIGN DATA
25	PAVEMENT MARKINGS, LINE QUANTITIES
26	QUANTITIES

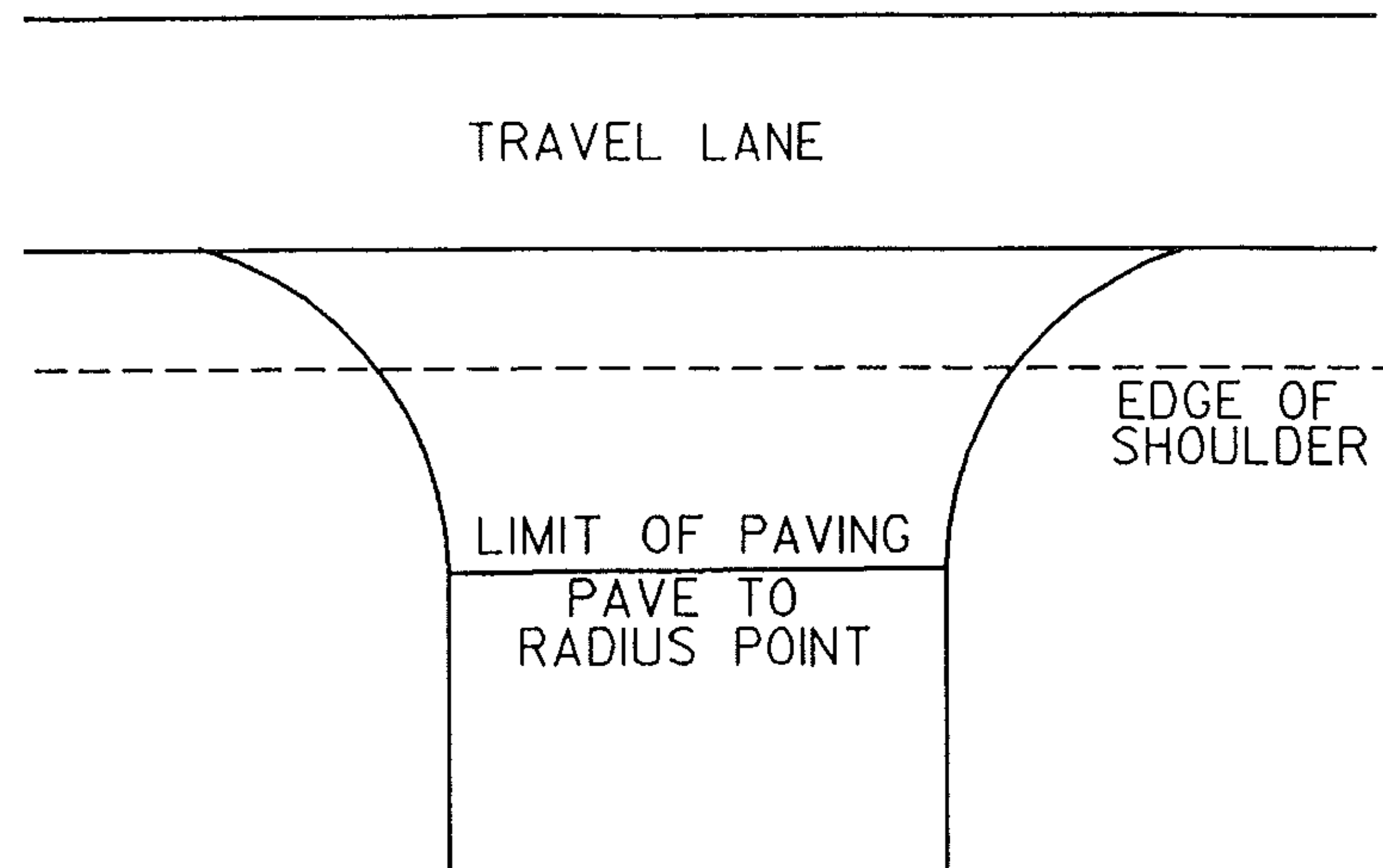
PROJECT PAVING

NO. _____

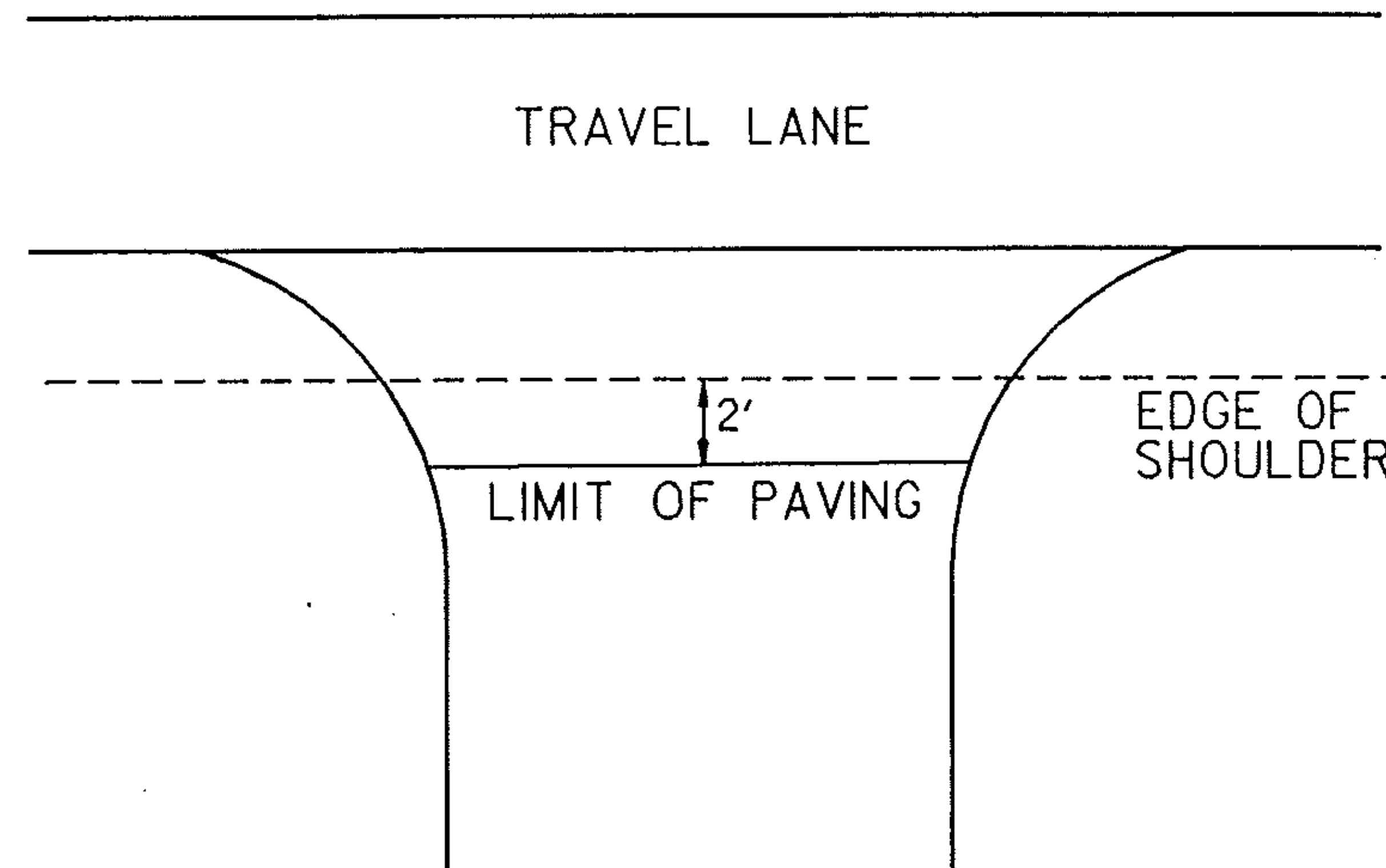
SHEET 2 OF 26 SHEETS

PAVING LIMITS FOR TOWN ROADS & DRIVES

PAVING LIMITS FOR TOWN ROADS



PAVING LIMITS FOR DRIVES



PROJECT PAVING

NO. _____

SHEET 3 OF 26 SHEETS

GUIDELINES FOR MINIMUM INTERIM PAVEMENT MARKINGS
IN CONSTRUCTION ZONES

- 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.

GORE AREA
(GORE AREAS TO INCLUDE 8' CHANNELIZING LINE AND DASHED LINE)
PER STANDARD SHEET E-50

- B. 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.

- C. 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. 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. THE RPM'S SHALL HAVE A SELF-ADHESIVE BACKING EASILY REMOVED BEFORE PAVING AND SHALL CONFORM TO THE FOLLOWING LAYOUT PATTERN:

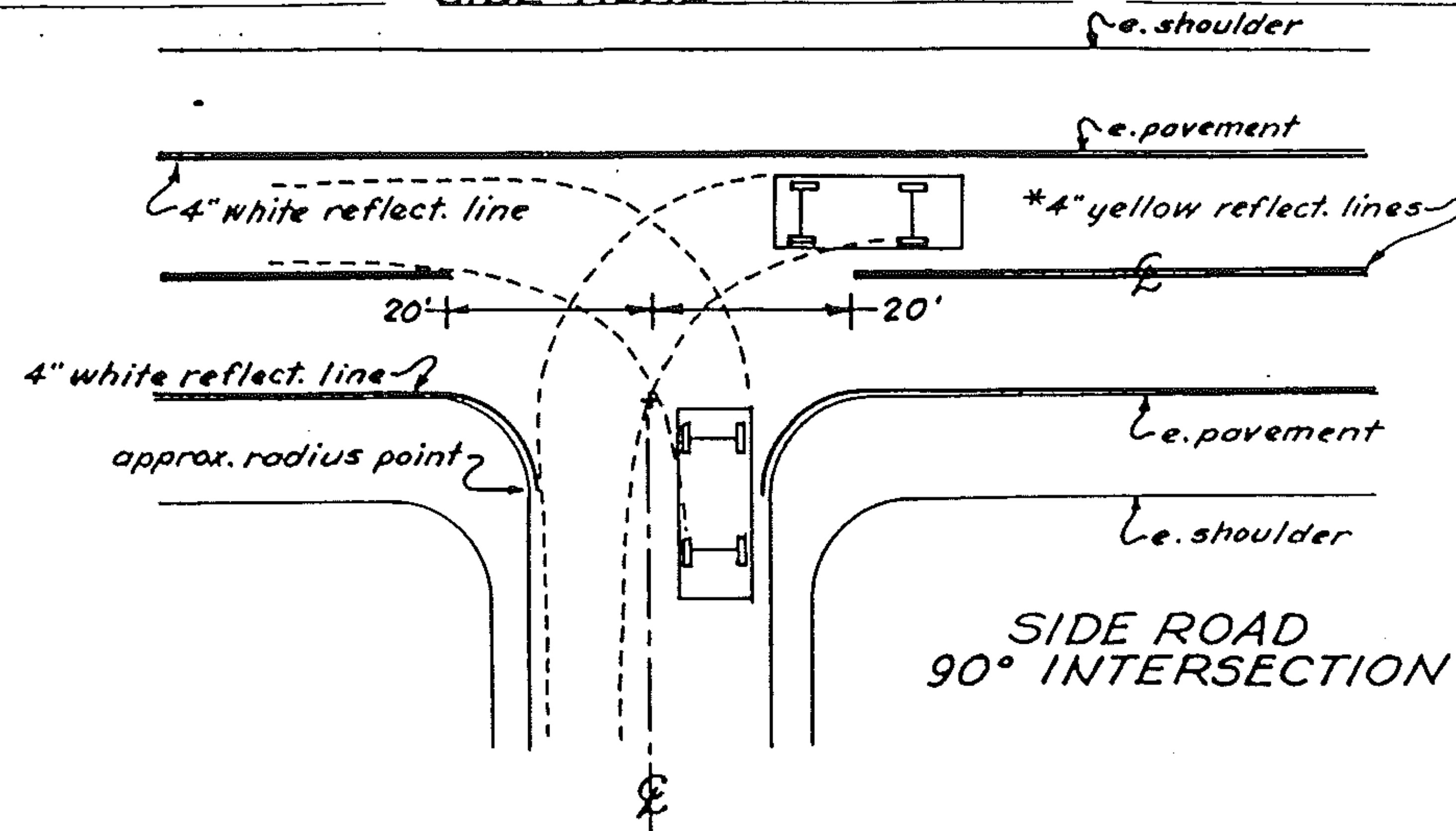
NO PASSING BARRIER
NO RPM'S ALLOWED.

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

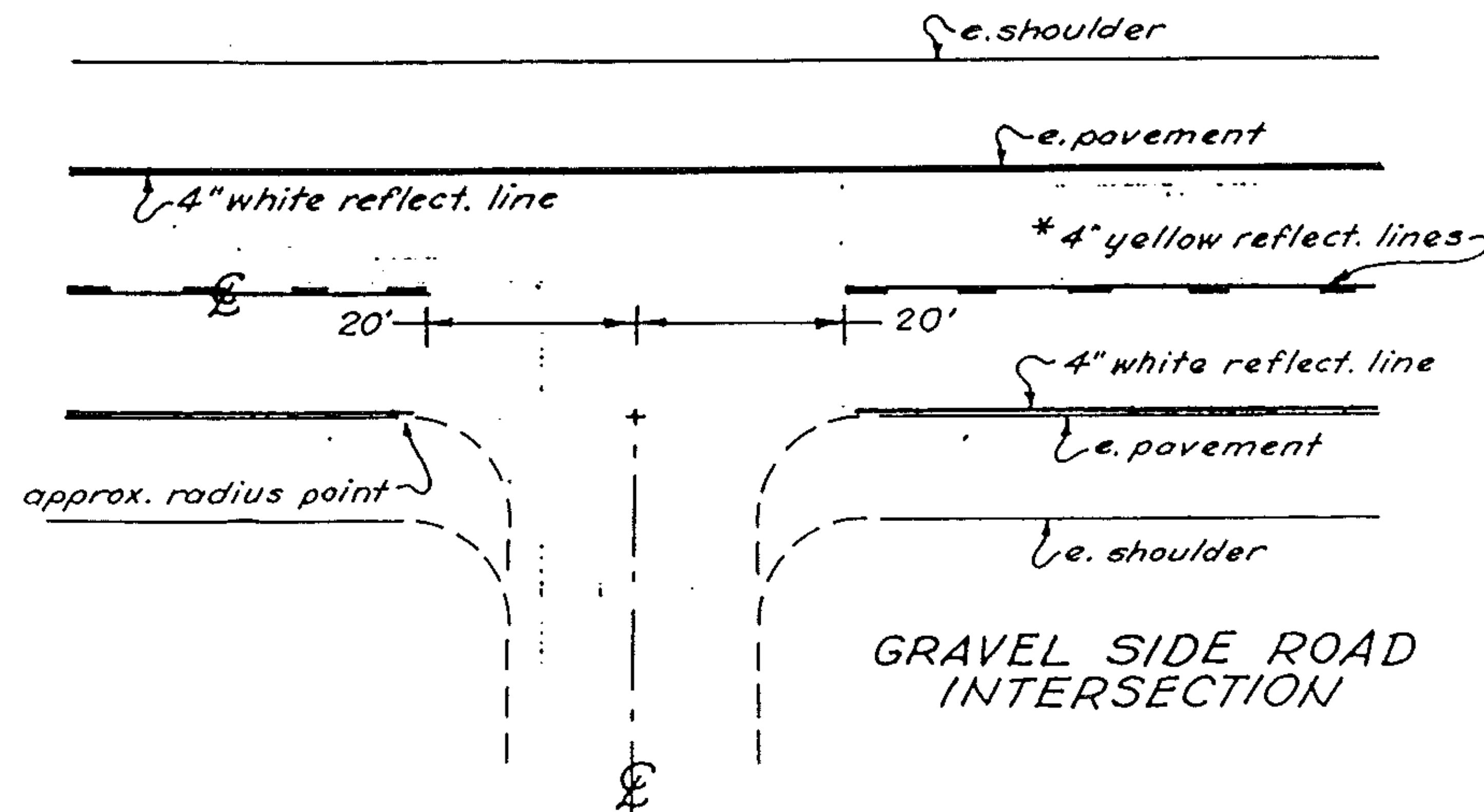
SOLID LINE - EDGE LINES
INTERSTATE MEDIAN SIDE-RETRO-REFLECTIVE RPM'S ON 4 TO 5 FOOT CENTER.
DRIVERS RIGHT SIDE-RPM'S NOT ALLOWED.

- D. 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.
- E. 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).
- F. 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
02/11/85



* 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.



ITEM QUANTITIES SUMMARY

[illegible]

PROJECT PAVING NUMBER SHEET 6 OF 26

STATE OF VERMONT
AGENCY OF TRANSPORTATION



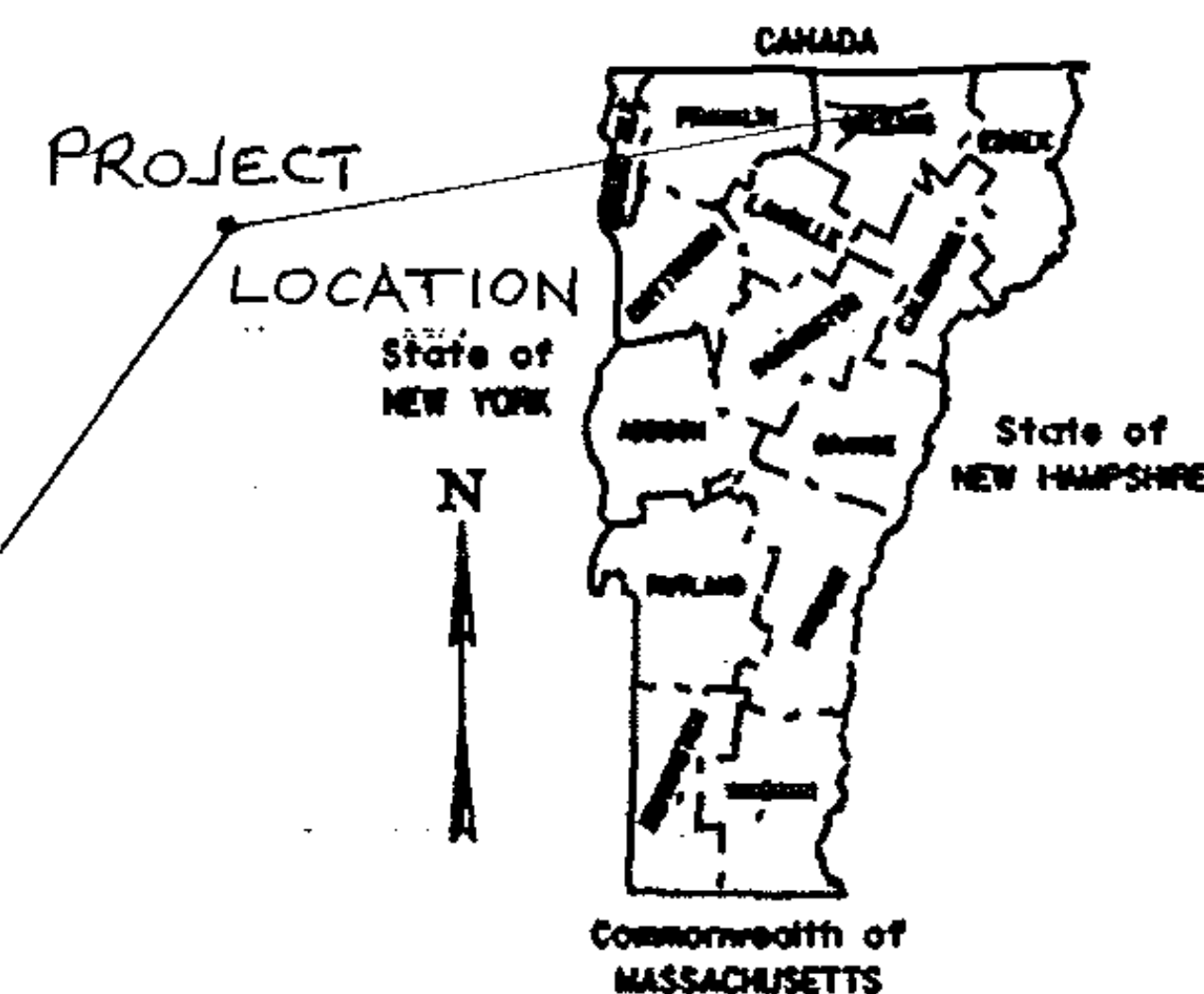
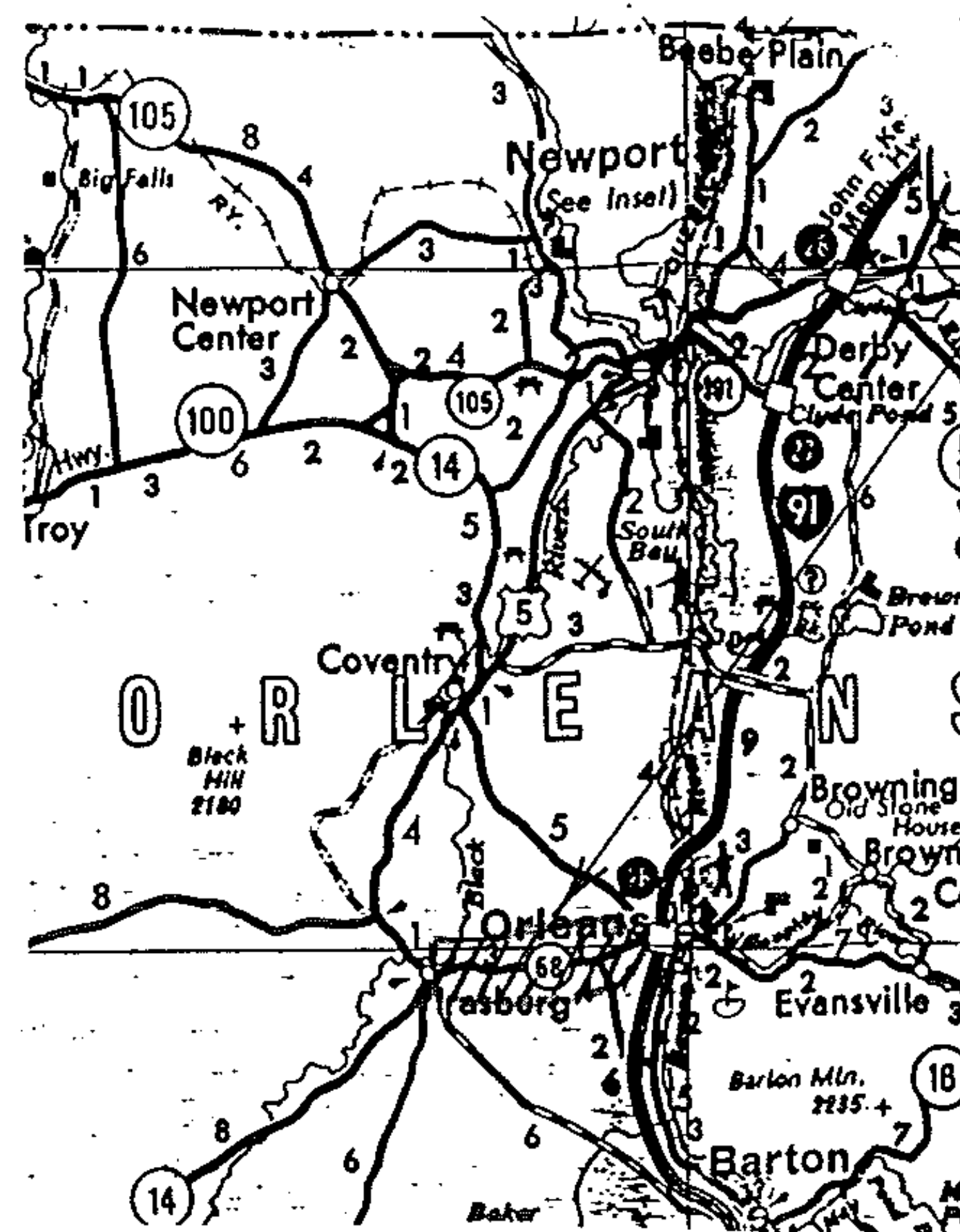
PROPOSED IMPROVEMENT
RESURFACING PROJECT

TOWN OF IRASBURG

COUNTY OF ORLEANS

ROUTE NO. VT 58

ROUTE CLASS F.A.S.



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1984, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 26, 1985 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 David B. Kelley DATE 8/4/87
CHIEF ENGINEER

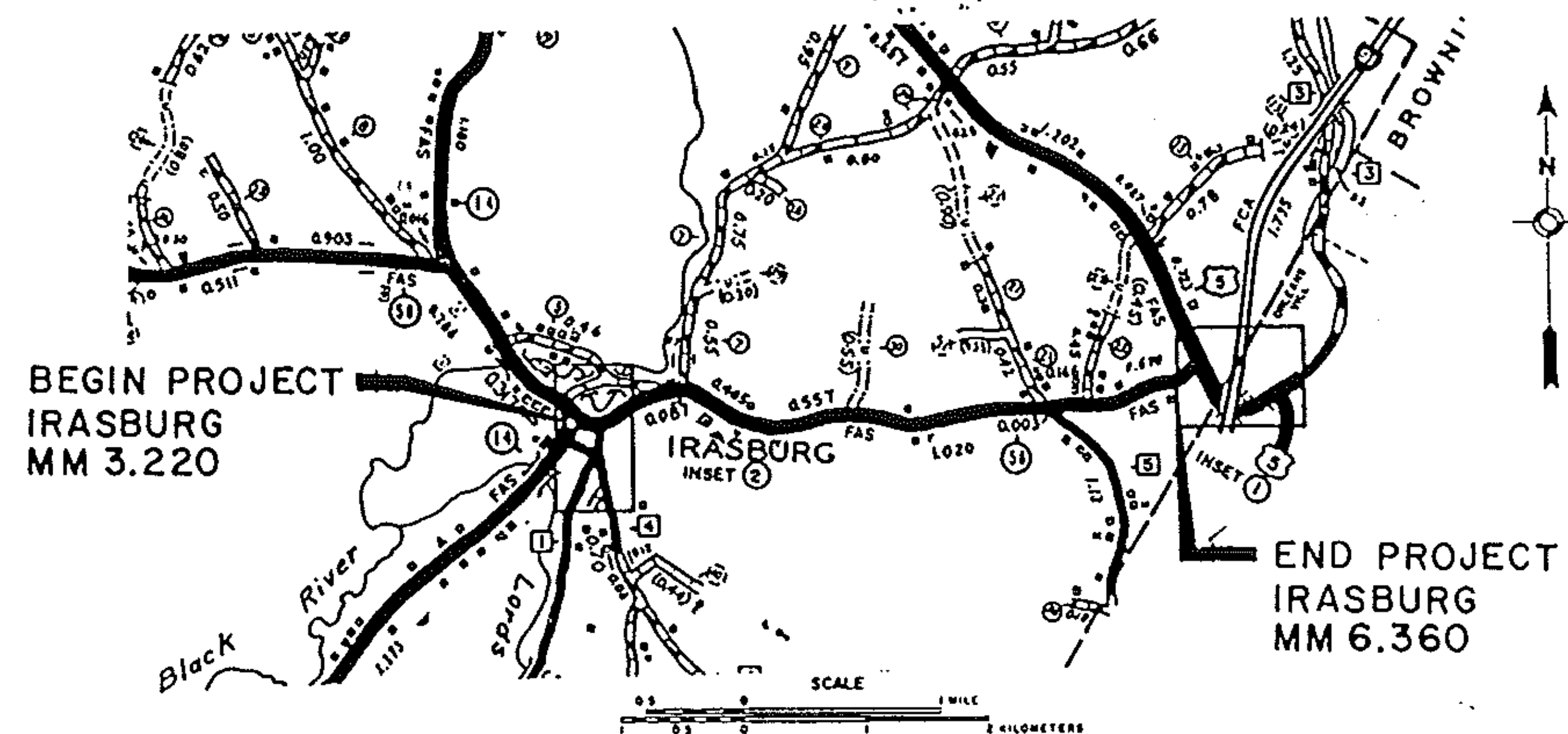
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT NO.

SHEET 7 OF 26 SHEETS

PROJECT DESCRIPTION AND LOCATION



PROJECT LOCATION

BEGINNING IN THE TOWN OF IRASBURG AT MM 3.220, THE INTERSECTION WITH VT 14, AND EXTENDING EASTERLY ALONG VT 58 FOR 3.141 MILES TO MM 6.360.

PROJECT LENGTH

3.141 MILES (16,584 FEET)

PROJECT DESCRIPTION

RESURFACE WITH A LEVELING COURSE AND $\frac{1}{4}$ " BITUMINOUS OVERLAY, PAVED SHOULDERS AND NEW PAVEMENT MARKINGS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

TRAFFIC DATA

AADT 1100
V 50 MPH

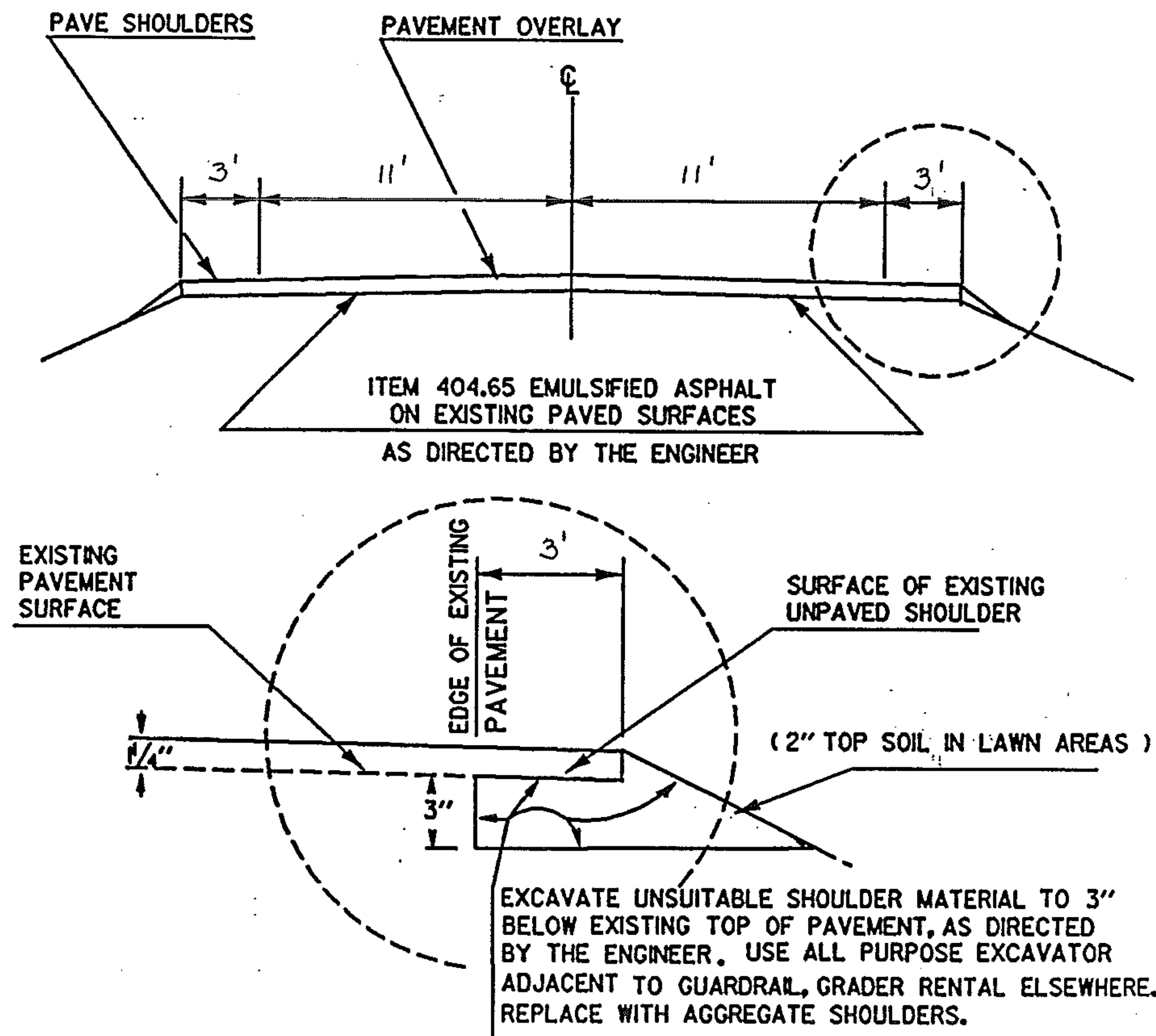
PROJECT IRASBURG

NO. HMA 2844

SHEET 8 OF 26 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 AGGREGATE SHOULDERS ($\pm 1/2"$)
 LEVELING COURSE TYPE IV (300 TONS/MILE)
 1 1/4" WEARING COURSE TYPE III ($\pm 1/4"$)
 AS DIRECTED BY THE ENGINEER



PROJECT IRASBURG

NO. HMA 2844

SHEET 9 OF 26 SHEETS

TEMPORARY 4" YELLOW LINE

	MILE	MILE	LT	RT	£	QUANTITY LT	QUANTITY £	QUANTITY RT	TOTALS FEET
	3.220	3.24	Solid	Solid		106		106	212
	3.24	3.26	Solid	Solid		106		106	212
	3.26	3.28	Solid	Solid		106		106	212
	3.28	3.62	Solid	Solid		1795		1795	3590
	3.62	3.72	Solid	Solid		528		528	1056
	3.72	4.68	Solid	Solid		5069		5069	10138
	4.68	5.26	Solid	Solid		3062		3062	6124
	5.26	5.41	Solid	Broken		792		198	990
	5.41	5.55	Broken	Solid		185		739	924
	5.55	5.69	Solid	Solid		739		739	1478
	5.69	5.87	Solid	Solid		950		950	1900
	5.87	6.360	Solid	Solid		2587		2587	5174
									32010
			Assume 50% lost during leveling						16005
			32010 x 0.5 =						48015
			9 town roads @ 40' each : 9x40'x2						-720
									47295
			Rounding +5						+5
									47300LF

TEMPORARY 4" WHITE LINE

	3.220	6.360	Solid	Solid		16579		16579	33158
			Assume no losses, but deduct for intersection with 9 gravel and paved roads, total of 890'						-890
									32268
			Use						32300LF

PROJECT IRASBURG

NO. HMA 2844

SHEET 10 OF 26 SHEETS

ITEM QUANTITIES

[illegible]

PROJECT IRASBURG

NUMBER HMA 2844

SHEET 11 OF 26

STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROPOSED IMPROVEMENT

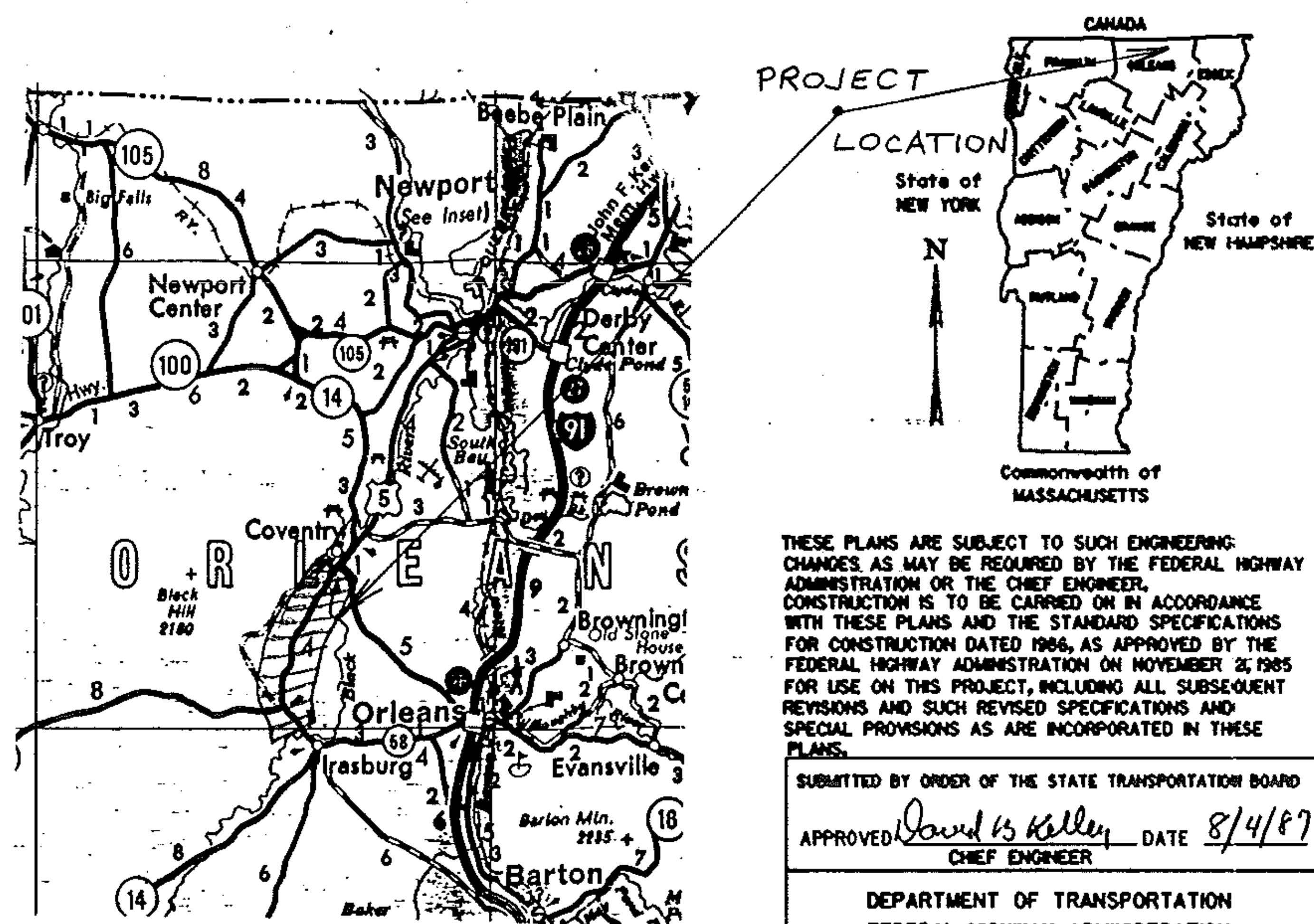
RESURFACING PROJECT

TOWN OF IRASBURG - COVENTRY

COUNTY OF ORLEANS

ROUTE NO. VT 14

ROUTE CLASS F.A.S.



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1986, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 2, 1985 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 David B. Kelley DATE 8/4/87
CHIEF ENGINEER

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT NO. _____
SHEET 12 OF 26 SHEETS

PROJECT LOCATION

PROJECT LENGTH

PROJECT DESCRIPTION

TRAFFIC DATA

NOTE

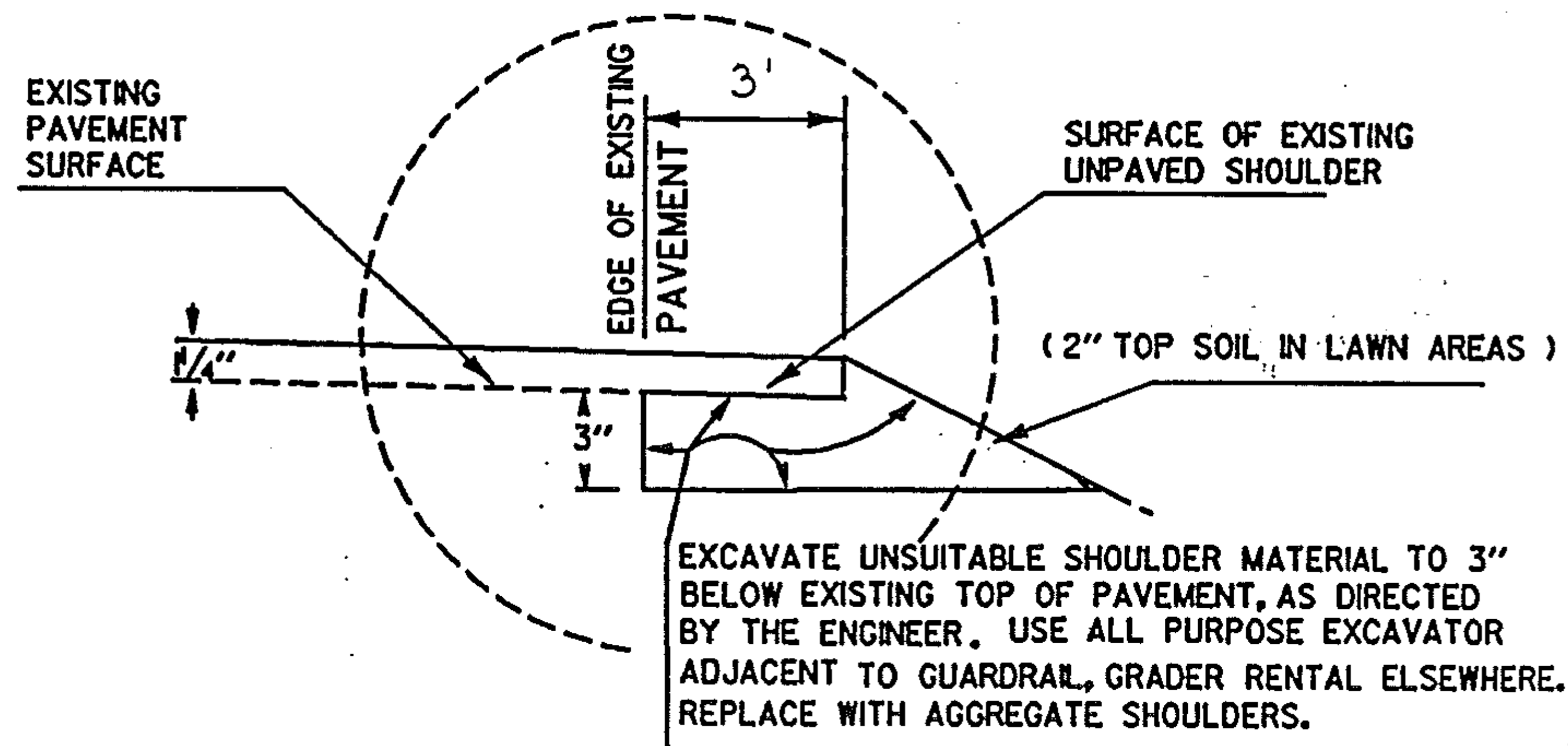
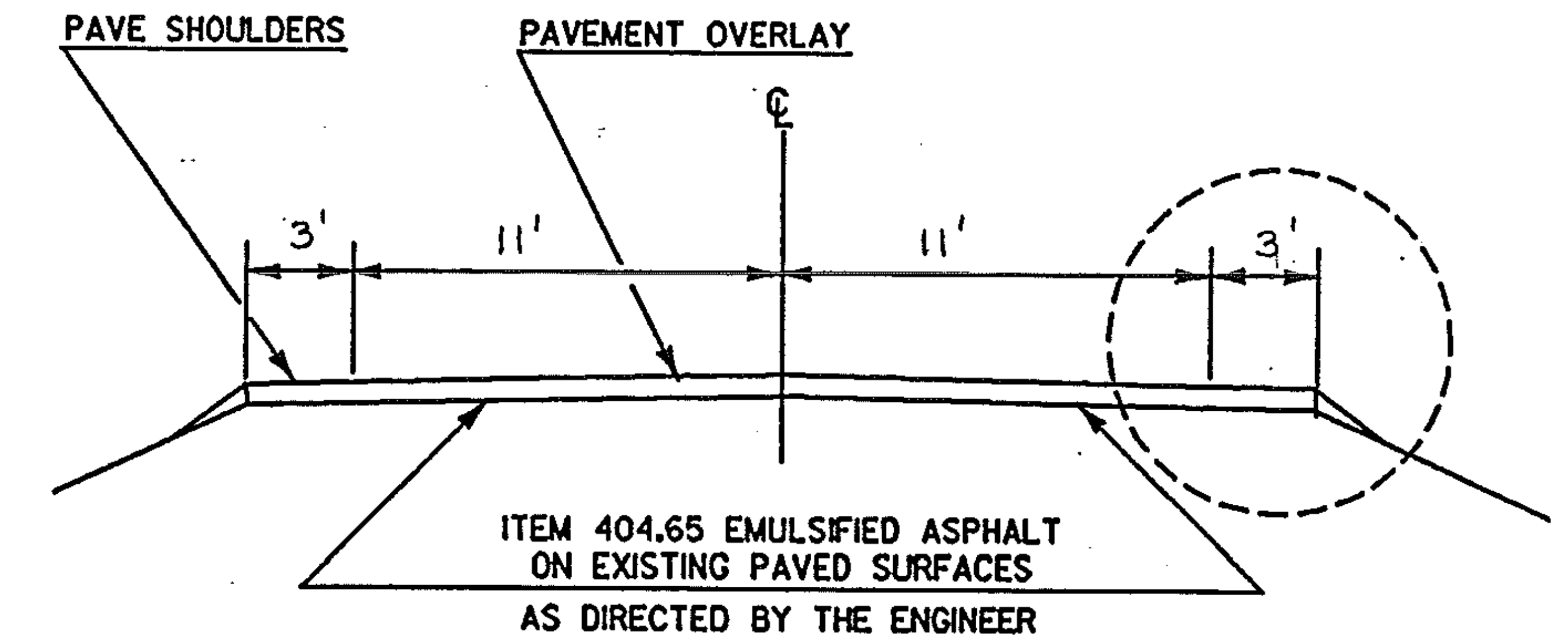
PROJECT IRASBURG - COVENTRY

NO. HMA 2869

SHEET 13 OF 26 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 AGGREGATE SHOULDERS ($\pm 1/2"$)
 LEVELING COURSE TYPE IV (300 TONS/MILE)
 1 1/4" WEARING COURSE TYPE III ($\pm 1/4"$)
 AS DIRECTED BY THE ENGINEER



PROJECT IRASBURG - COVENTRY

NO. HMA 2869

SHEET 14 OF 26 SHEETS

TEMPORARY 4" YELLOW LINE

	MILE	MILE	LT	RT	¢	QUANTITY LT	QUANTITY ¢	QUANTITY RT	TOTALS FEET
	3.130	3.54	Solid	Solid		2165		2165	4330
	3.54	3.70	Solid	Broken		845		211	1056
	3.70	4.00	Solid	Solid		1584		1584	3168
	4.00	4.13	Broken	Solid		172		686	858
	4.13	5.99	Solid	Solid		9821		9821	19642
	5.99	6.14	Solid	Broken		792		198	990
	6.14	6.30			Broken		211		211
	6.30	6.44	Broken	Solid		185		739	924
	6.44	6.76	Solid	Solid		1690		1690	3380
	6.76	6.87	Solid	Broken		581		145	726
	6.87	7.06			Broken		251		251
	7.06	7.20	Broken	Solid		185		739	924
	7.20	7.350	Solid	Solid		792		792	1584
	0.00	0.112	Solid	Solid		591		591	1182
									39226
			Assume	50% lost during leveling					
				39226 X 0.5 =					19613
									58839
			3 town roads & VT 58 twice						
			@ 40' each : 5 x 40' x 2						- 400
									58439
						Use			584501

TEMPORARY 4" WHITE LINE

	3.130	7.350	Solid	Solid		22282		22282	44564
	0.00	0.112	Solid	Solid		591		591	1182
									45746
			Assume no losses, but deduct for						- 230
			intersection with 4 town roads &						
			traffic island, total of 230'						45516
							Use		455501

PROJECT IRASBURG-COVENTRY

NO. HMA 2869
SHEET 15 OF 26 SHEETS

STATE OF VERMONT
AGENCY OF TRANSPORTATION



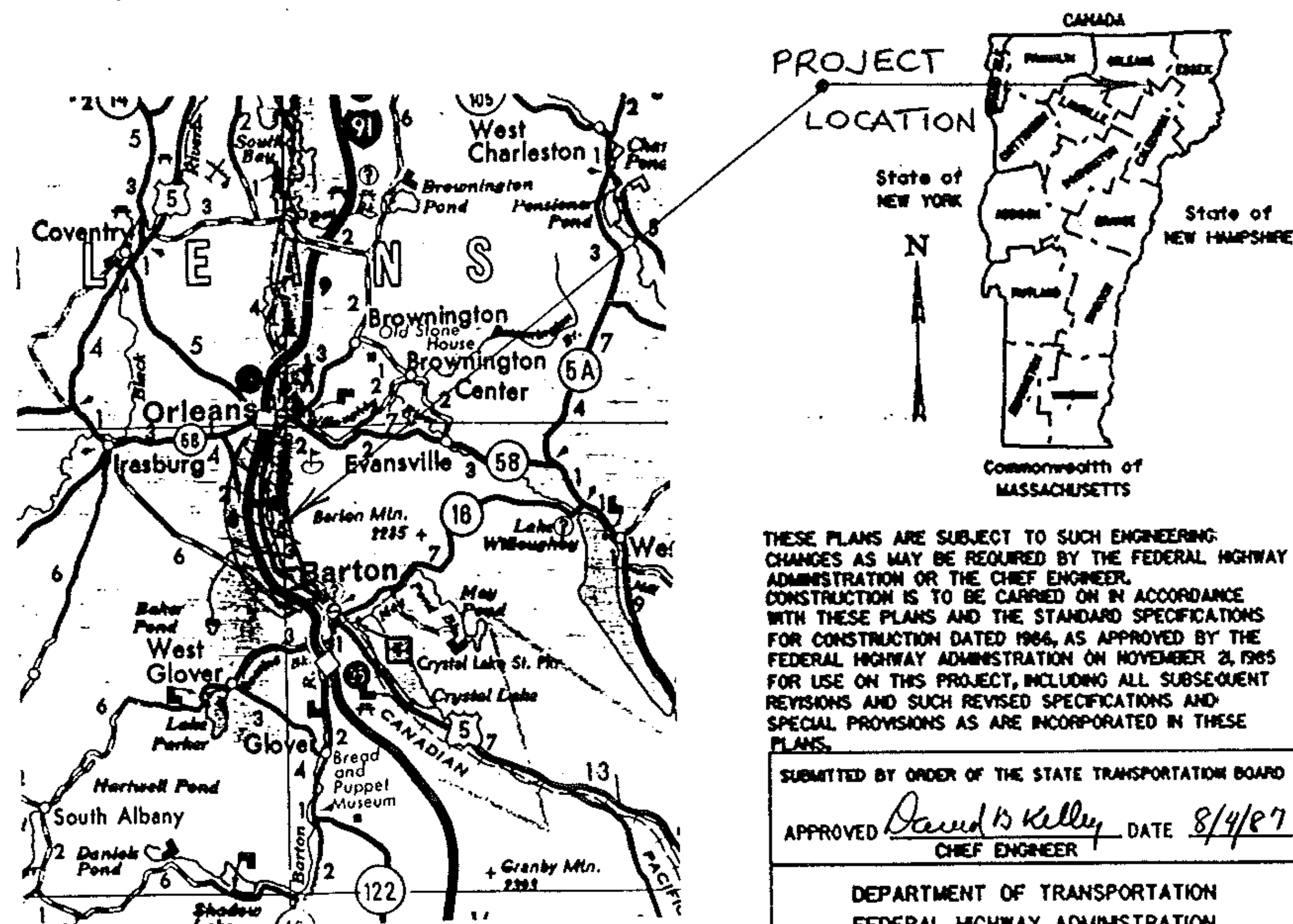
PROPOSED IMPROVEMENT
RESURFACING PROJECT

TOWN OF BARTON

COUNTY OF ORLEANS

ROUTE NO. US 5

ROUTE CLASS F.A.S



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1966, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 21, 1965 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 David S. Kelly DATE 8/4/87
CHIEF ENGINEER

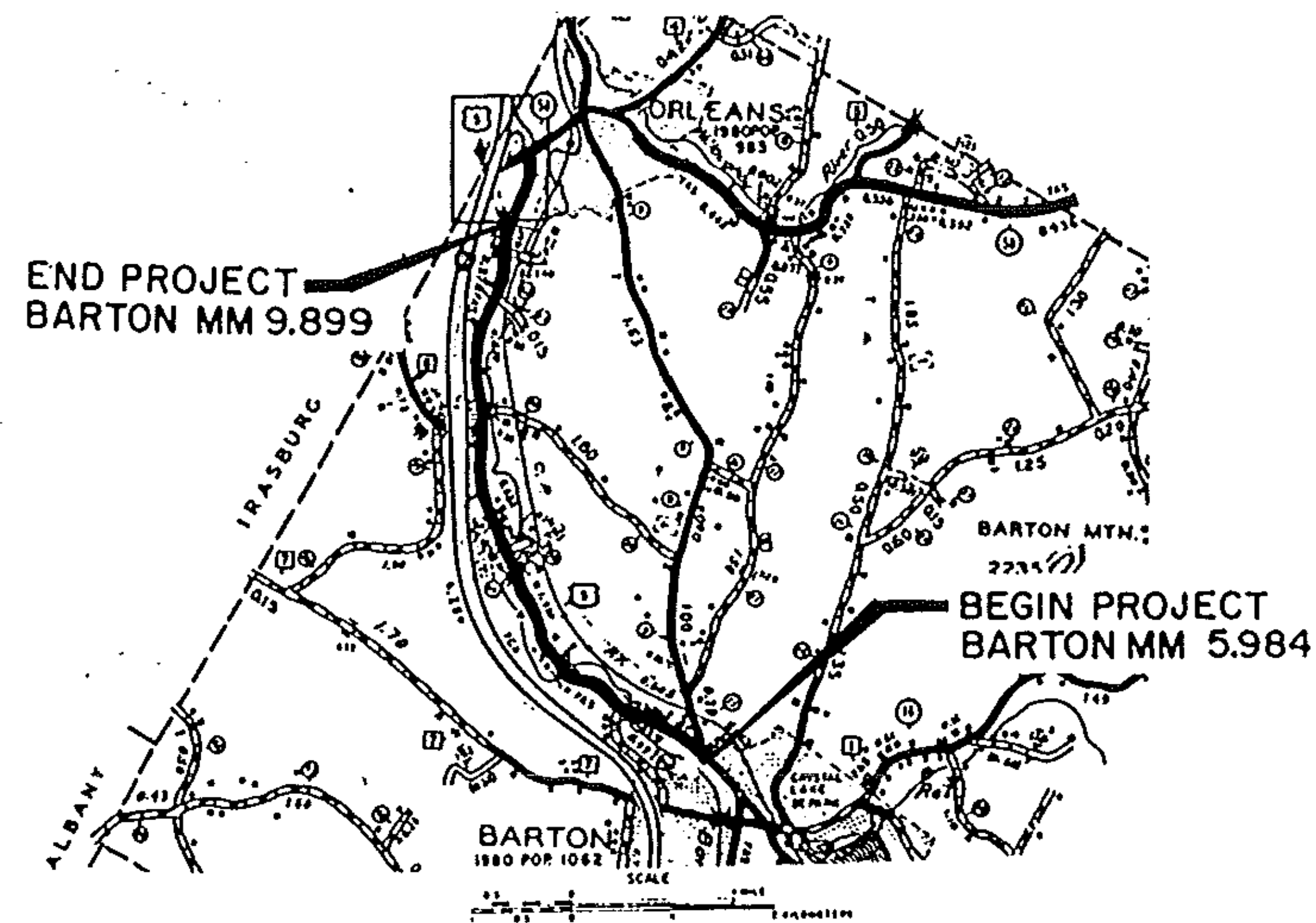
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT NO.

SHEET 17 OF 26 SHEETS

PROJECT DESCRIPTION AND LOCATION



PROJECT LOCATION

BEGINNING IN THE TOWN OF BARTON AT MM 5.984 AND EXTENDING NORTHERLY ALONG U.S. 5 FOR 3.915 MILES TO MM 9.899 APPROXIMATELY 0.5 MILES SOUTH OF THE ORLEANS VILLAGE LINE.

PROJECT LENGTH

3.915 MILES (20,671 FEET)

PROJECT DESCRIPTION

RESURFACE WITH A LEVELING COURSE AND $1\frac{1}{4}$ " BITUMINOUS OVERLAY, PAVED SHOULDERS AND NEW PAVEMENT MARKINGS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

TRAFFIC DATA

AADT 1960
V 50 MPH

NOTE

BRIDGE NO. 166 MM 7.11 AND BRIDGE NO. 167 MM 7.85 DO NOT PAVE

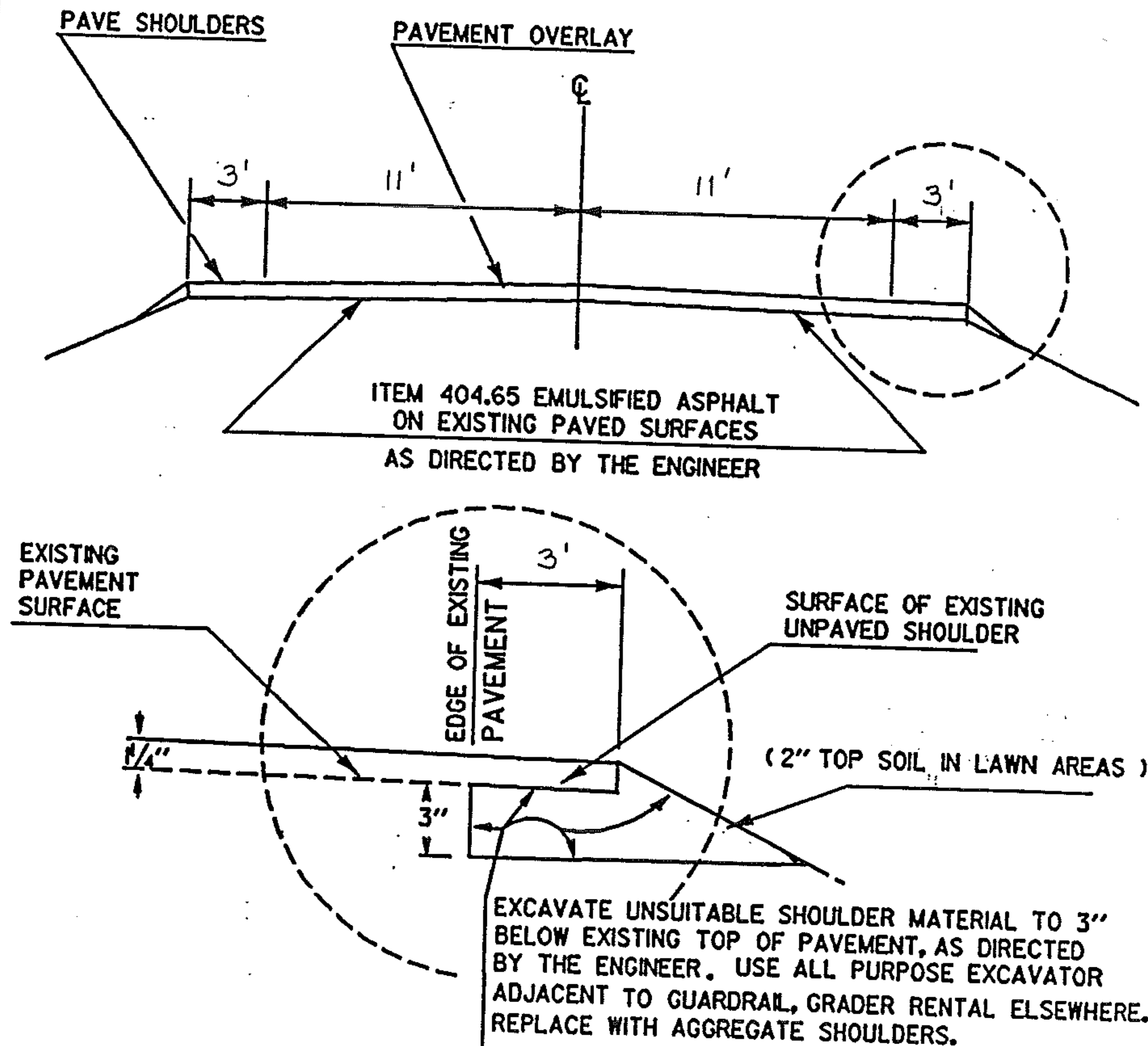
PROJECT BARTON

NO. HMA 2838

SHEET 10 OF 26 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 AGGREGATE SHOULDERS ($\pm 1/2"$)
 LEVELING COURSE TYPE IV (300 TONS/MILE)
 1 1/4" WEARING COURSE TYPE III ($\pm 1/4"$)
 AS DIRECTED BY THE ENGINEER



PROJECT BARTON

NO. HMA 2838

SHEET 19 OF 26 SHEETS

TEMPORARY 4" YELLOW LINE

	MILE	MILE	LT	RT	¢	QUANTITY LT	QUANTITY ¢	QUANTITY RT		TOTALS FEET
	5.984	6.09	Solid	Solid		560		560		1120
	6.09	6.22	Solid	Broken		686		172		858
	6.22	6.33			Broken		145			145
	6.33	6.46	Broken	Solid		172		686		858
	6.46	6.67	Solid	Solid		1109		1109		2218
	6.68	7.75	Solid	Solid		5650		5650		11300
	7.75	7.88	Solid	Broken		686		172		858
	7.88	7.93			Broken		66			66
	7.93	8.01	Broken	Solid		106		422		528
	8.01	8.70	Solid	Solid		3643		3643		7286
	8.70	8.86	Solid	Solid		845		845		1690
	8.86	8.89	Solid	Solid		158		158		316
	8.89	9.03	Solid	Broken		739		185		924
	9.03	9.09			Broken		79			79
	9.09	9.21	Broken	Solid		158		634		792
	9.21	9.47	Solid	Solid		1373		1373		2746
	9.47	9.57	Solid	Solid		528		528		1056
	9.57	9.69	Broken	Solid		158		634		792
	9.69	9.899	Solid	Solid		1104		1104		2208
										35840
			Assume 50% lost during leveling							
						35840	x 0.5	=		17920
										53760
			6 town roads @ 40' each: 6x40'x2							- 480
										53280L

TEMPORARY 4" WHITE LINE

	5.984	9.899	Solid	Solid		20671		20671		41342
			Assume no losses but deduct							
			for intersection with 4 gravel							- 460
			roads, total of 460'							40882
						Use				40900L

PROJECT BARTON

NO. HMA 2838

SHEET 20 OF 26 SHEETS

[illegible]

NUMBER HMA 2838

SHEET 21 OF 26

STATE OF VERMONT
AGENCY OF TRANSPORTATION



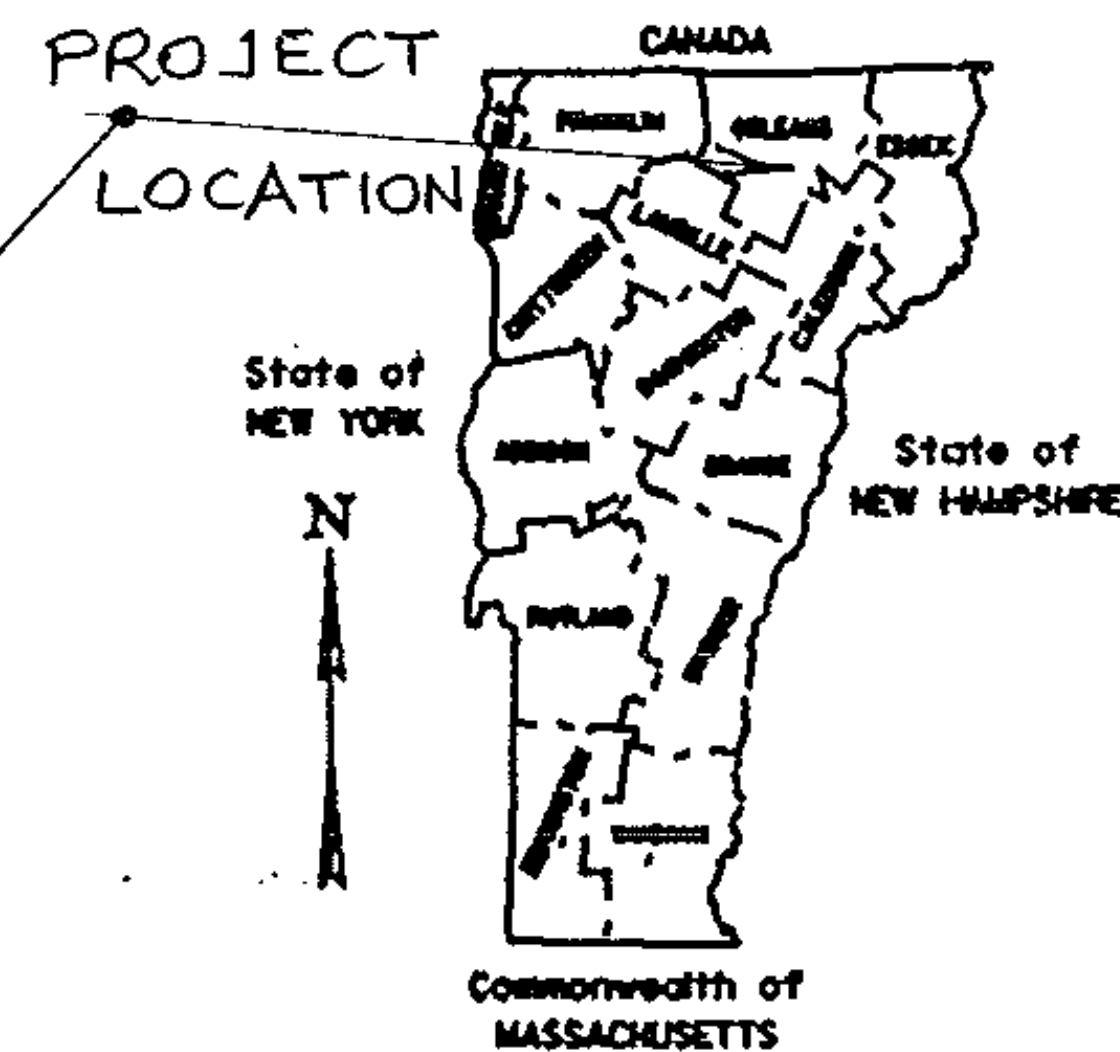
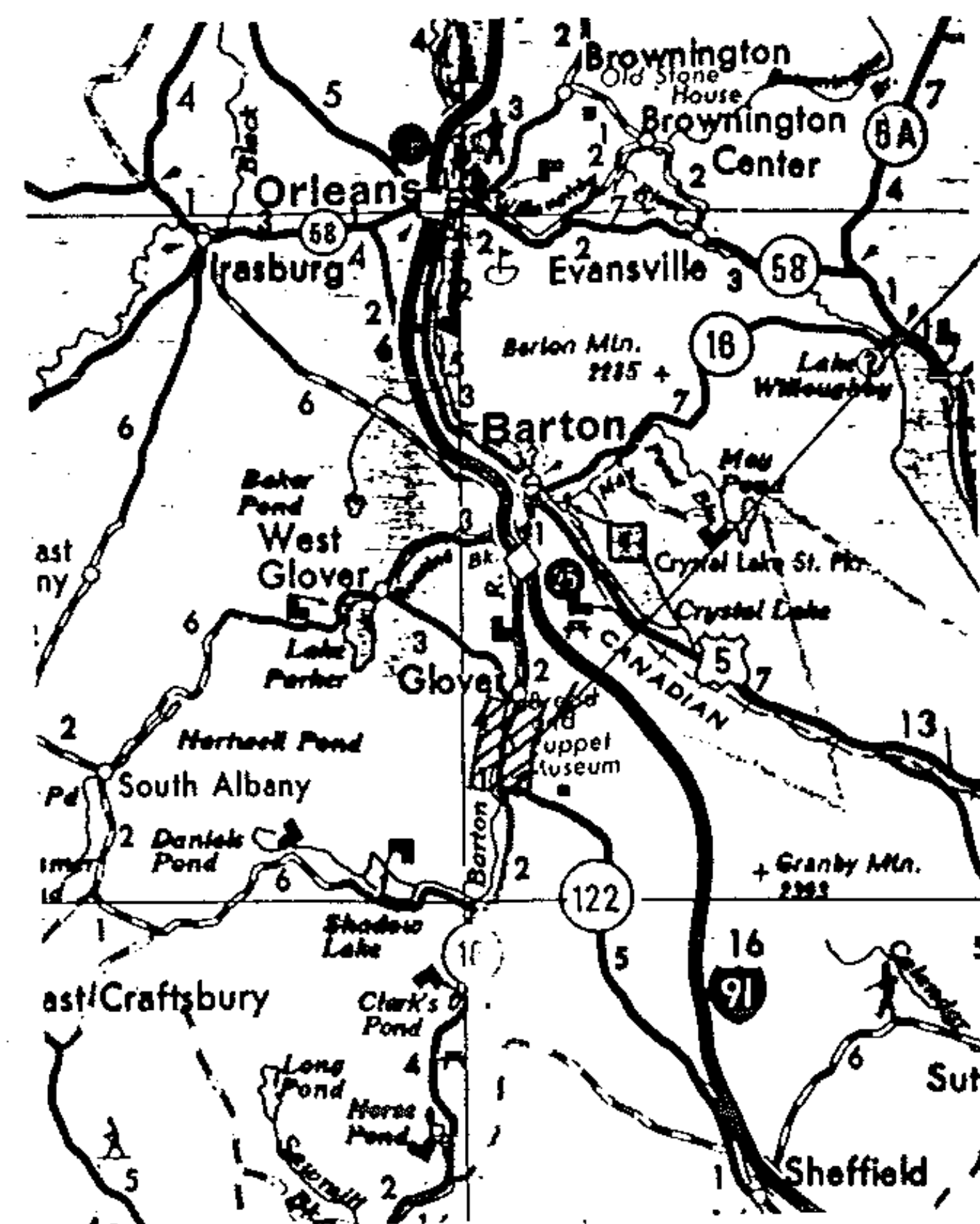
PROPOSED IMPROVEMENT
RESURFACING PROJECT

TOWN OF GLOVER

COUNTY OF ORLEANS

ROUTE NO. VT 16

ROUTE CLASS F.A.P.



THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1966, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 21, 1965 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 _____ DATE _____
CHIEF ENGINEER

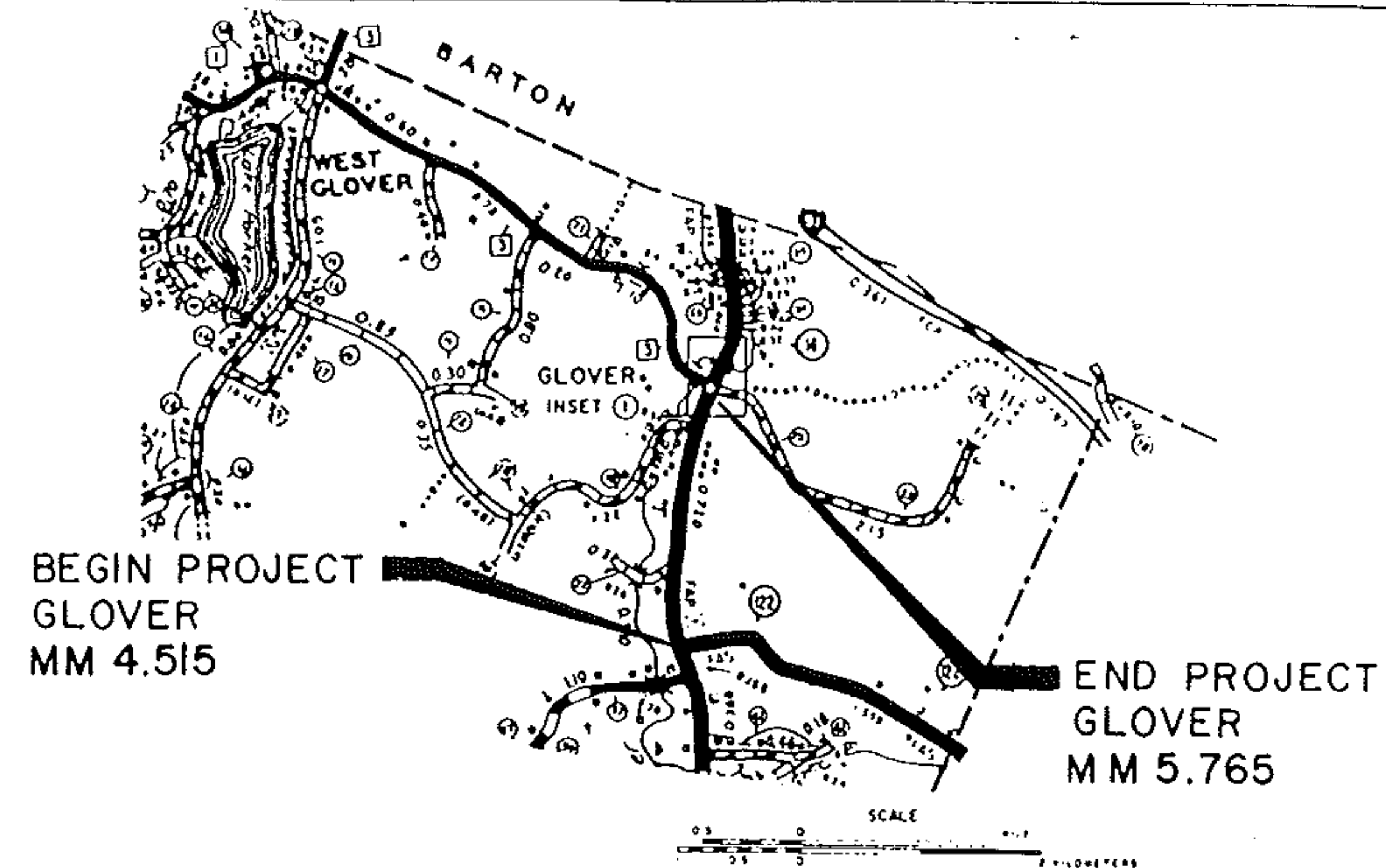
DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____
DIVISION ADMINISTRATOR

PROJECT NO.

SHEET 2 OF 26 SHEETS

PROJECT DESCRIPTION AND LOCATION



PROJECT LOCATION

BEGINNING IN THE TOWN OF GLOVER AT MM 4.515, THE INTERSECTION WITH VT 122, AND EXTENDING NORTHERLY ALONG VT 16 FOR 1.250 MILES TO MM 5.765

PROJECT LENGTH

1.250 MILES (6,600 FEET)

PROJECT DESCRIPTION

RESURFACE WITH A LEVELING COURSE AND $1\frac{1}{4}$ " BITUMINOUS OVERLAY, PROVIDE PAVED SHOULDERS AND NEW PAVEMENT MARKINGS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

TRAFFIC DATA

AADT 1680
V 50 MPH

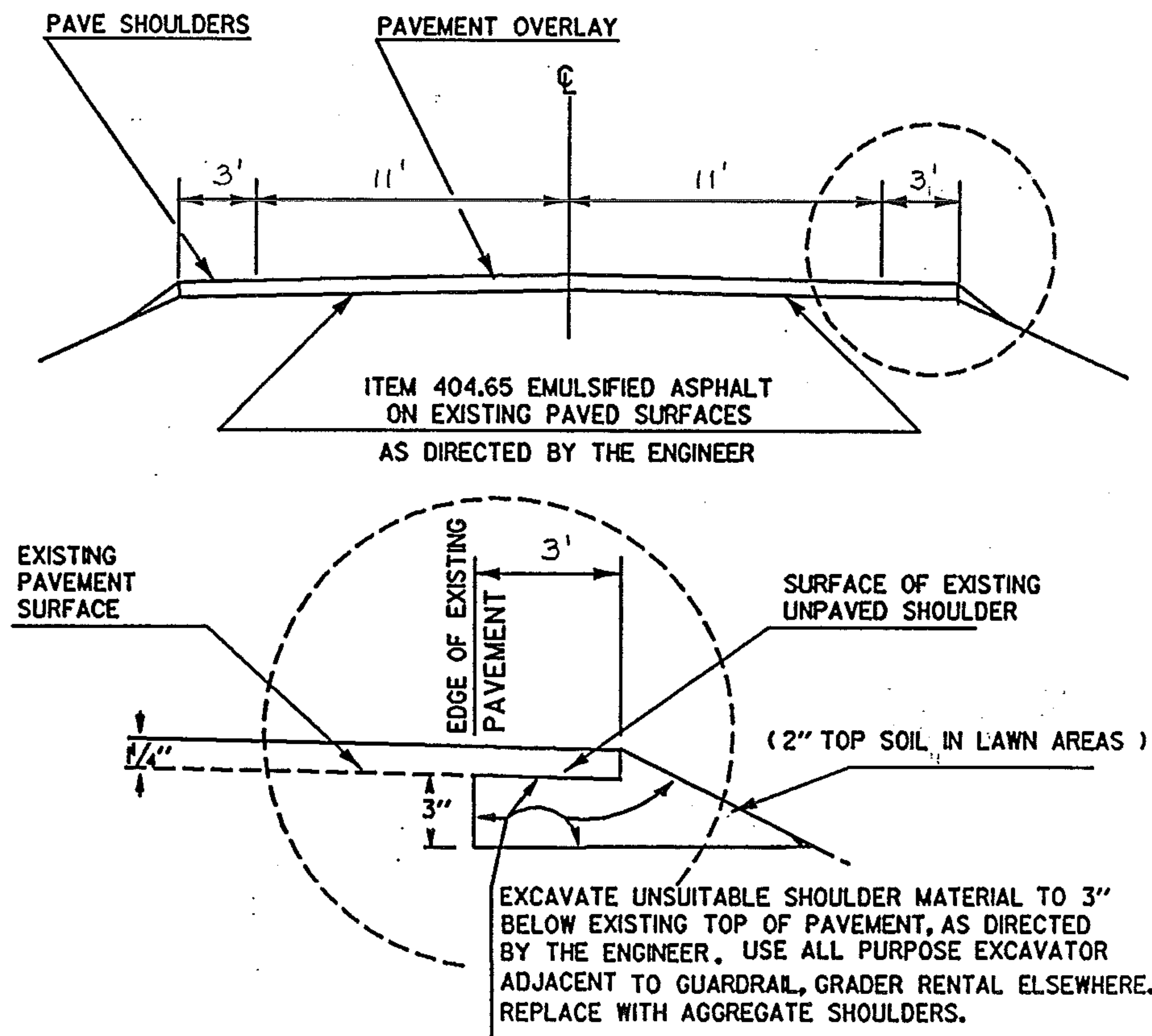
PROJECT GLOVER

NO. HMA 2856

SHEET 23 OF 26 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 AGGREGATE SHOULDERS ($\pm 1/2"$)
 LEVELING COURSE TYPE IV (250 TONS/MILE)
 1 1/4" WEARING COURSE TYPE III ($\pm 1/4"$)
 AS DIRECTED BY THE ENGINEER



PROJECT GLOVER

NO. HMA 2856

SHEET 24 OF 26 SHEETS

TEMPORARY 4" YELLOW LINE

MILE	MILE	LT	RT	¢	QUANTITY LT	QUANTITY ¢	QUANTITY RT	TOTALS FEET
4.515	4.75	Solid	Solid		1241		1241	2482
4.75	4.90	Solid	Broken		792		198	990
4.90	5.23	Solid	Solid		1742		1742	3484
5.23	5.37	Solid	Broken		739		185	924
5.37	5.41			Broken		53		53
5.41	5.51	Broken	Solid		132		528	660
5.51	5.765	Solid	Solid		1346		1346	2692
								11285
		assume 50% lost during leveling						
		11285 x 0.5 =						5643
								16928
		2 town roads @ 40' each : 2x 40'x2						- 160
								16768
					Use			<u>16800L±</u>

TEMPORARY 4" WHITE LINE

[illegible]

PROJECT GLOVER

NO. HMA 2856

SHEET 25 OF 26 SHEETS

[illegible]

SHEET 26 OF 26