

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Date JUL 23 1985

Cooley Asphalt Paving Corp
Contractor

Walter C. Laprade
Signature

President



CONTRACT PLANS

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

PROPOSED IMPROVEMENT

Frank E. Olmick
Acting Transportation Secretary
Signature

RESURFACING PROJECT

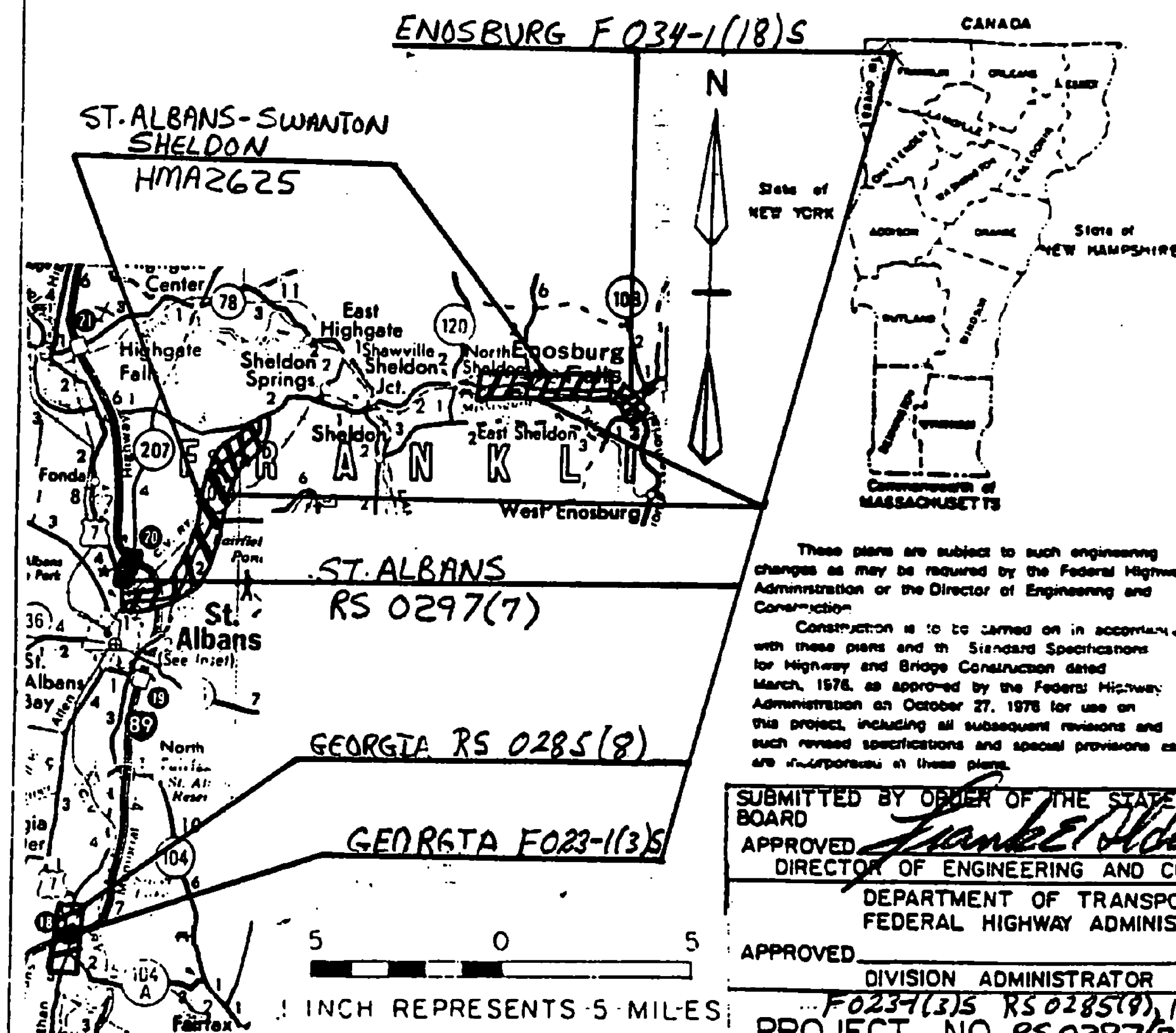
ST. ALBANS, GEORGIA, SWANTON

TOWN OF: SHELDON, ENOSBURG

COUNTY OF: FRANKLIN

ROUTE NO: VT. 207, US 7, VT. 105

ROUTE CLASS: FAS, FAP



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, 1976 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. Olmick* DATE MAY 1985
DIRECTOR OF ENGINEERING AND CONSTRUCTION

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED _____ DATE _____

DIVISION ADMINISTRATOR

F023-1(3)S RS 0285(8), HMA-2625
PROJECT NO. RS 0297(7), F034-1(18)S

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PROJECT GEORGIA, ST. ALBANS
SWANTON, SHELDON, ENOSBURG

F023-1(3)S
NO. RS0285(8) F034-1(18)S
RS0297(7), HMA 2625
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PROJECT GEORGIA, ST. ALBANS
SWANTON, SHELDON, ENOSBURG

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RS0297(7) HMA 2625
F034-1(18)S
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F023-1(3)S

NO. RS 0285(8) F034-1(18)S
RS 0297(2), HMA 2625

PROJECT GEORGIA, ST. ALBANS, SWANTON
SHELDON, ENOSBURG

SHEET 28 OF 52 SHEETS

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	OPTION														
	LENGTH	WIDTH	OVERLAY DEPTH	LEVELING COURSE	GRAVEL SHOULDERS	GRAVEL SHOULDERS	EMULSIFIED ASPHALT	BITUMINOUS CONCRETE PAVEMENT	POWER BROOM RENTAL	CHANGE ELEV. OF CB, DI OR MH	UNIFORMED TRAFFIC OFFICERS	FLAGPERSONS	ALL PURPOSE EXCAVATION RENTAL TYPE	TOPSOIL	
ITEM NO					402.10	402.11	404.65	406.25	608.30	604.40	630.10	630.15	608.25	653.10	
UNIT	FT.	FT.	IN.	TONS/ML	CY.	TON	CWT	TON	HR	EA.	HR.	HR.	HR.	CY	
LOCATION															
GEORGIA F023-1(3)S							15	640	2	6	35	35	5	6	
GEORGIA RS 0285(8)							25	1200	5	1	60	60	5	15	
ST. ALBANS RS 0297(7)							20	1010	5	1	55	55	5	10	
ST. ALBANS - SWANTON - SHELDON - HMA 2625					3100	5375	175	11000	85	4	550	550	20	210	
ENOSBURG F034-1(18)S					140	240	10	500	5	1	25	25	5	10	
TOTALS					3240	5615	245	14350	102	13	725	725	40	251	

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	MOBILIZATION												TEMPORARY PAVEMENT MARKINGS 4" (WHITE)												TEMPORARY PAVEMENT MARKINGS 4" (YELLOW)												DURABLE 4" REFLECTORIZED WHITE LINE												PAINTED CURB												DURABLE ARROW MARKINGS												DURABLE 8" REFLECTORIZED YELLOW LINES												DURABLE LETTER IN WORD MARKINGS 24"												STOP BAR												DURABLE 8" REFLECTORIZED WHITE LINE												DURABLE R&R CROSSING PAVEMENT MARKING SIGNAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	ITEM NO	635.10	646.35	646.36	646.60	646.21	646.65	646.68	646.66	646.64	646.62	646.67																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION

TRAFFIC SIGNS - TYPE A
ALUMINUM SIGN POSTS
TRAFFIC SIGNS - TYPE A
DURABLE 4" REFLECTORIZED
YELLOW LINE

ITEM NO	675.21	675.35	646.61										
UNIT	SF.	LBS.	L.F.										
LOCATION													
GEORGIA F023-1(13)S													
GEORGIA RS 0285(8)													
ST. ALBANS RS 0297(7)			390										
ST. ALBANS - SWANTON - SHELDON HMA 2625	28.4	96											
ENOSBURG F034-1(18)S													
TOTALS	28.4	96	390										

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.

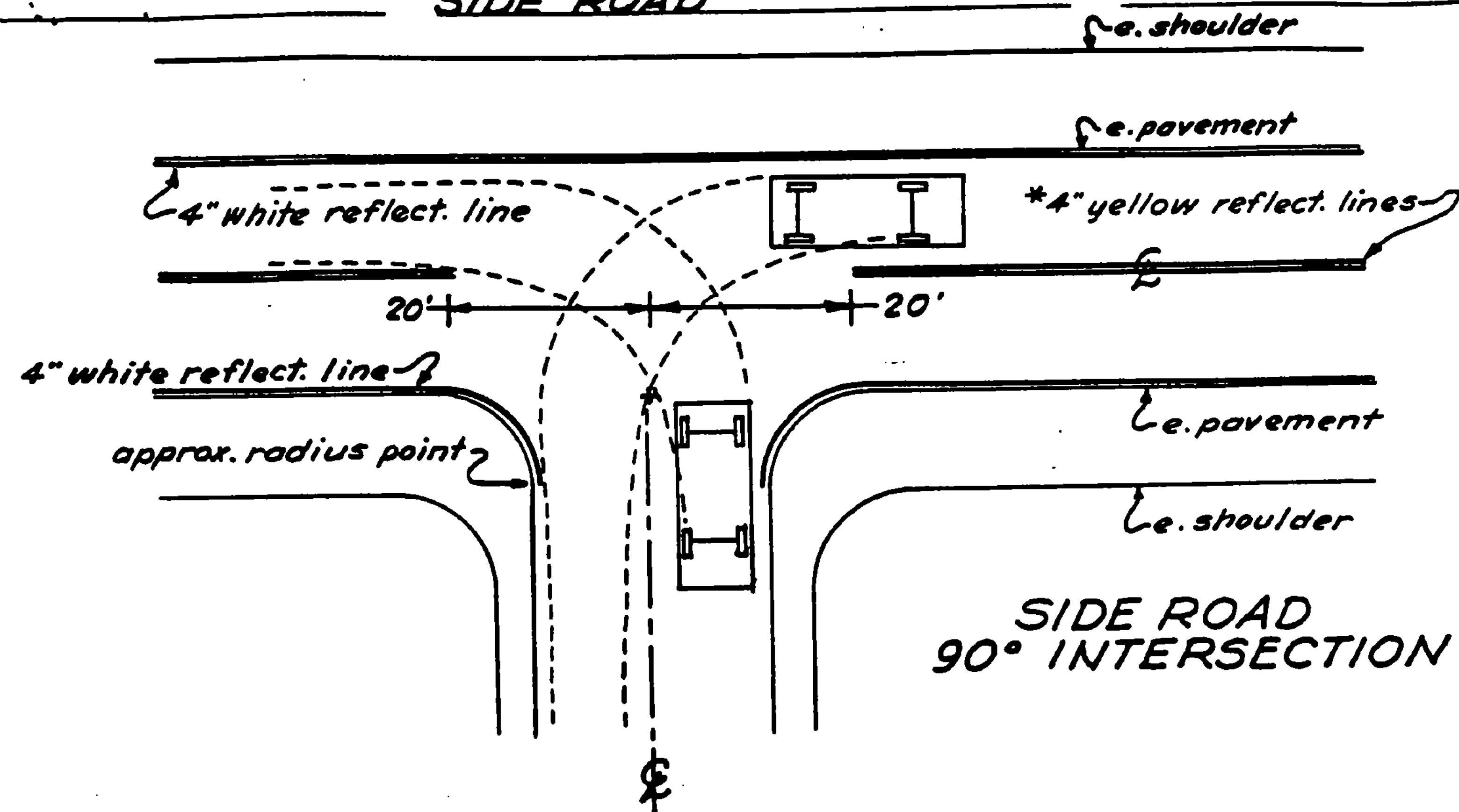
- D. WHEN PAINT IS USED FOR TEMPORARY MARKING, AN ALTERNATE MATERIAL SUCH AS TAPE OR RPM'S SHALL BE ON HAND IN THE EVENT RAIN PREVENTS THE PAINT APPLICATION FROM BEING COMPLETED. ALL PAINT SHALL BE REFLECTORIZED.
- E. PAYMENT FOR PAINT AND TAPE SHALL BE COMPUTED ON A LINEAR FOOT BASIS AS IF PAINT WAS 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-

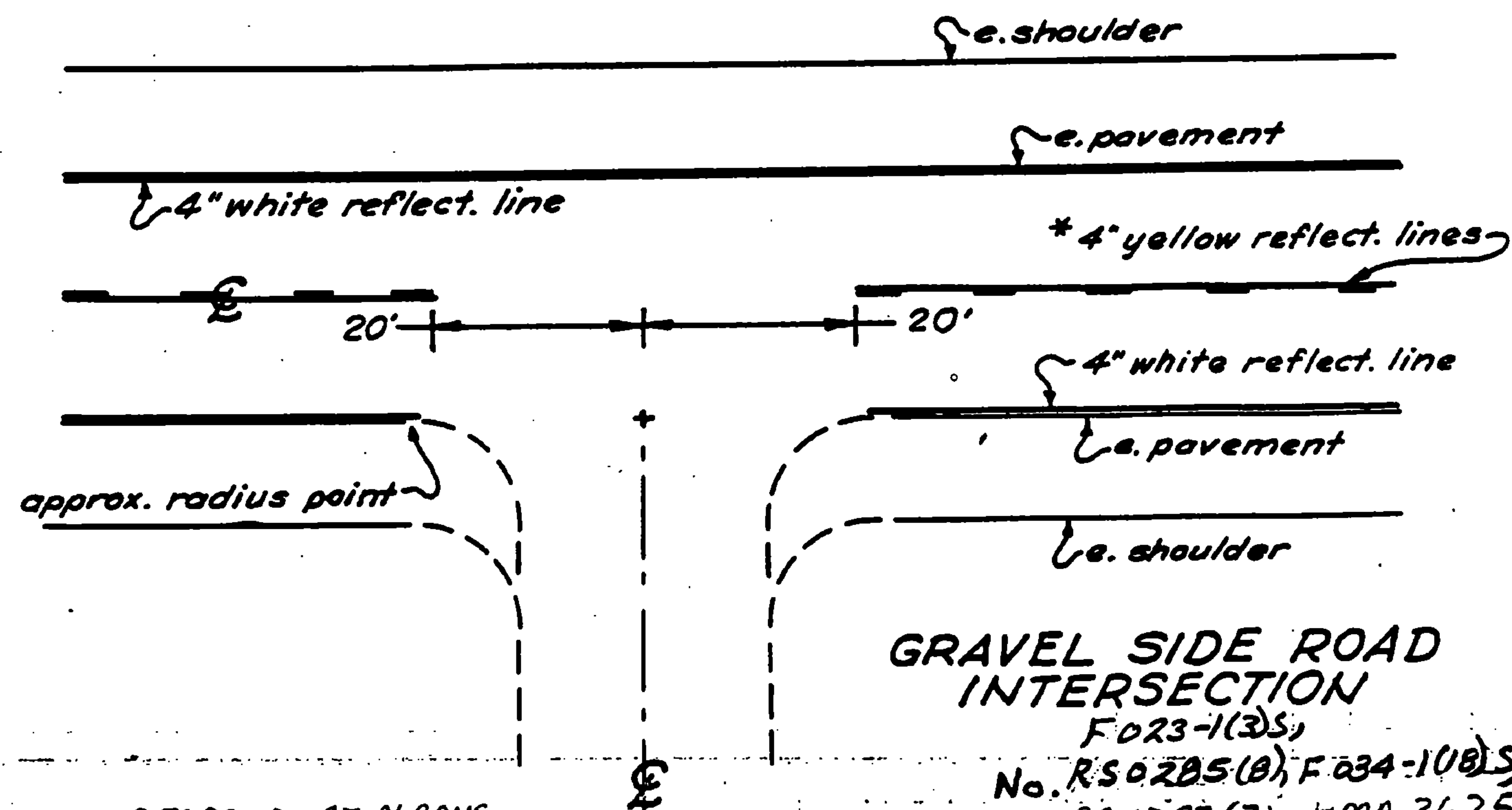
F023-1(3)S,
No. RS0285(B), F034-1(1/8)S,
RS0297(7), HMA 2625

PROJECT GEORGIA, ST. ALBANS
SWANTON, SHELDON, ENGBURG

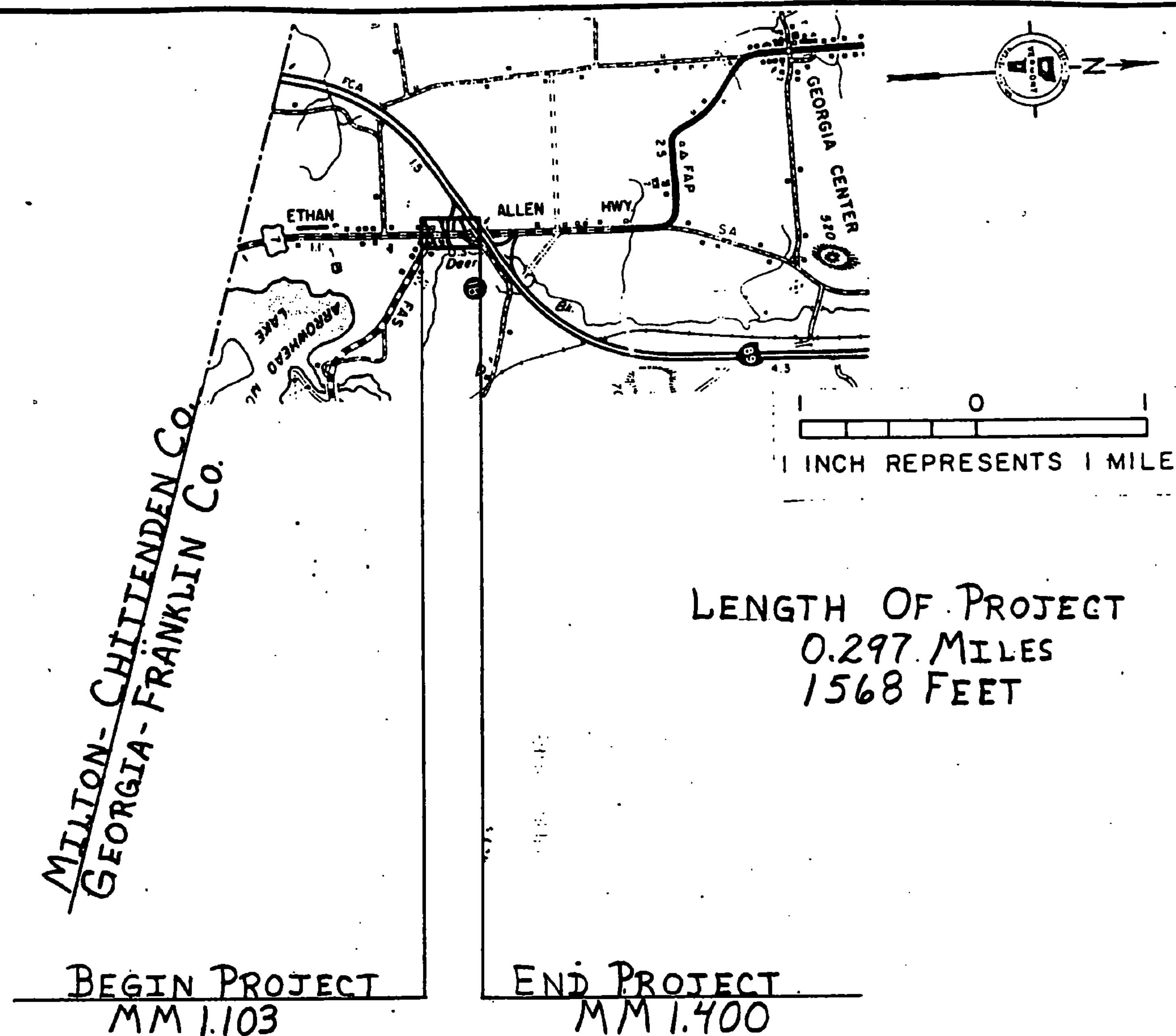
SHEET 5 OF 52 SHEETS



* 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.



PROJECT DESCRIPTION AND LOCATION

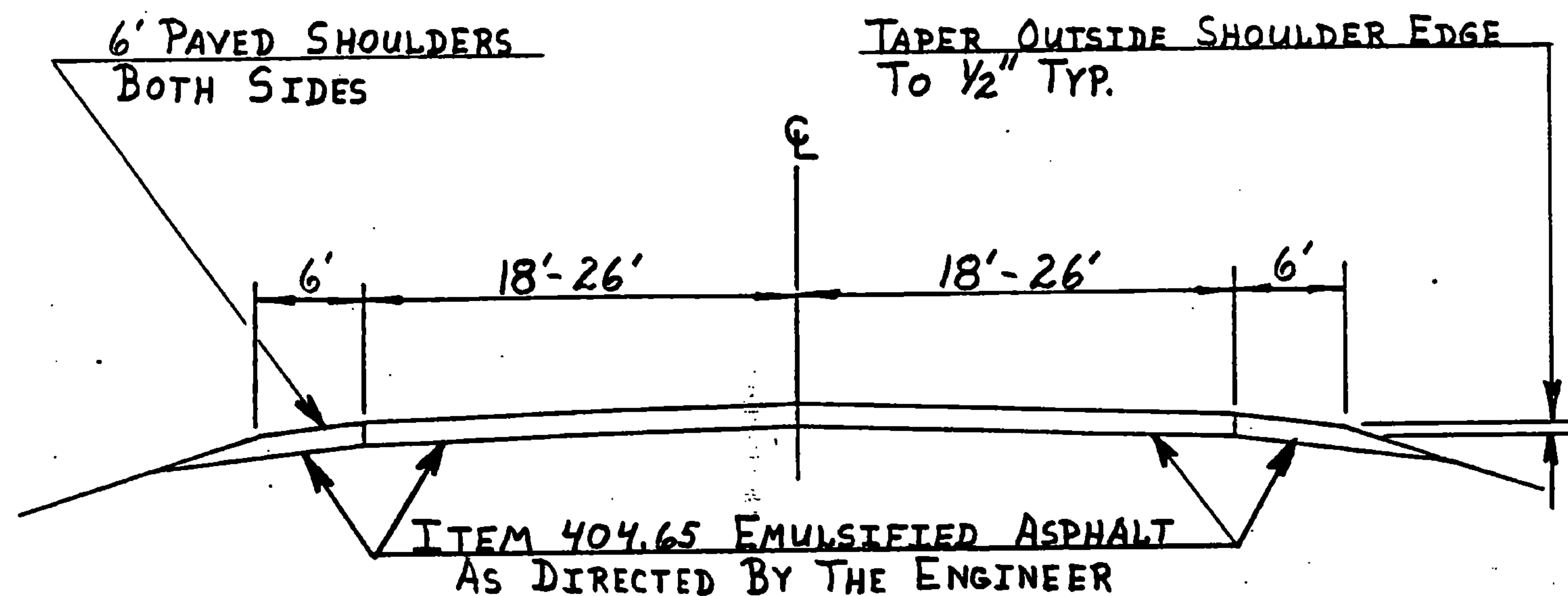


THIS PROJECT BEGINS AT A POINT 1.10 MILES NORTH OF THE MILTON-GEORGIA TOWN LINE AT MM 1.103 AND EXTENDS NORTHERLY 0.297 MILES TO MM 1.400.

TRAFFIC DATA
1982 ADT= 2650
V=50 MPH

TYPICAL SECTIONS & DESIGN DATA

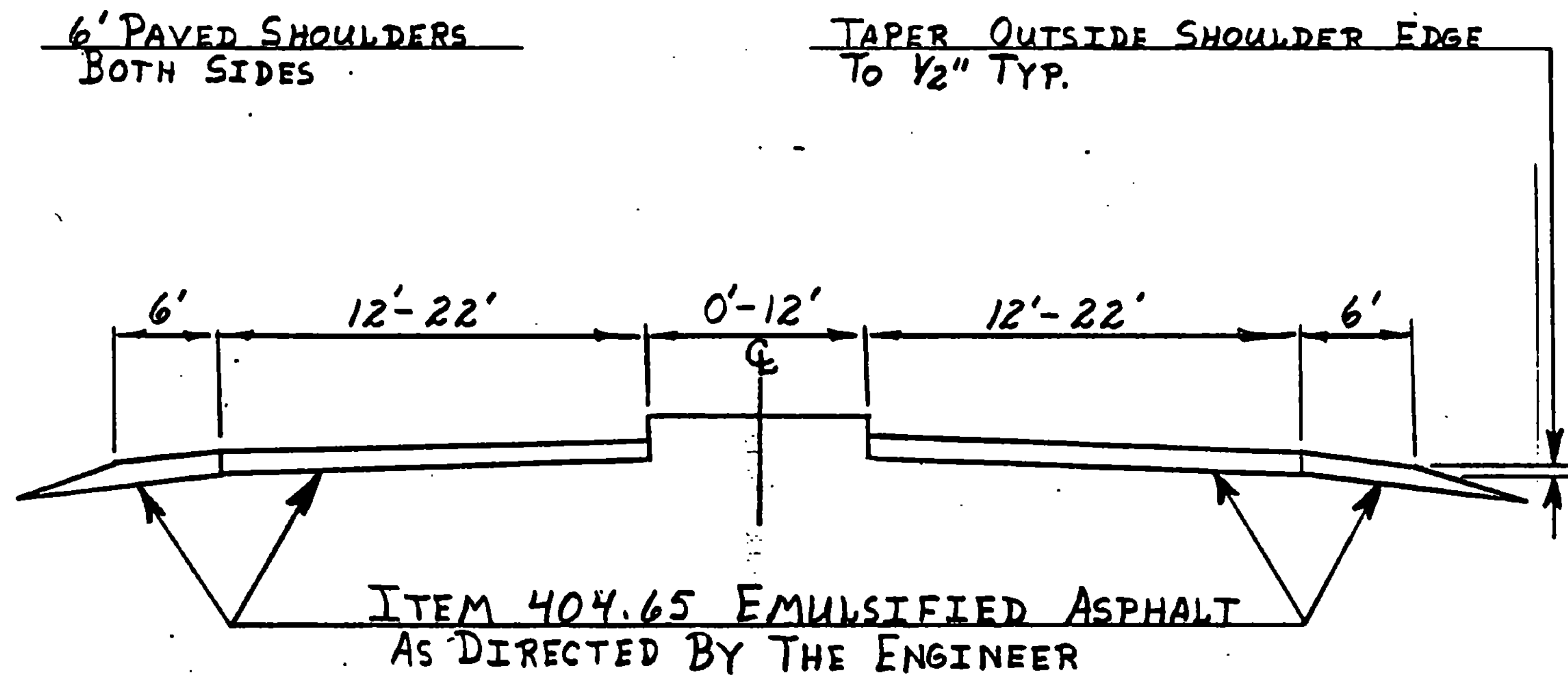
ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE, TYPE III OR IV (SEE TABLE BELOW)
AS DIRECTED BY THE ENGINEER
1" WEARING COURSE, TYPE III



DISTANCE	WIDTH PAVED SHOULDER	WIDTH TRAVELED-WAY	WIDTH PAVED SHOULDER	LEVEL TONNAGE / MILE
MM 1.103-1.11	6	52	6	591
MM 1.26-1.27	6	52	6	591
MM 1.35-1.40	6	36	6	409

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE, TYPE III OR IV (SEE TABLE BELOW)
AS DIRECTED BY THE ENGINEER
1" WEARING COURSE, TYPE III



DISTANCE	WIDTH PAVED SHOULDER	WIDTH TRAVELED WAY	WIDTH MEDIAN	WIDTH PAVED SHOULDER	LEVEL TONNAGE/MT.
MM 1.11-1.26	6	44	4' UNPAVED	6	500
MM 1.27-1.31	6	36	12' UNPAVED	6	409
MM 1.31-1.35	6	24	0-12' PAVED	6	341

DURABLE LETTER IN
WORD MARKINGS

TOTAL	16
-------	----

NO. F 023-1(3)S

SHEET 10B OF 52 SHEETS

646.35 4" White Reflectorized Line
MM 1.103 - 1.400
1568 x 2 = 3136 L.F.

646.36 4" Reflectorized Yellow Line
MM 1.103 ~ 1.13 = 143 L.F. x 2 = 286 L.F.
1.13 ~ 1.225 = 502 x 4 = 2008
1.225 ~ 1.31 = 449 x 2 = 898
1.31 ~ 1.35 = 211 x 4 = 844
1.35 ~ 1.40 = 264 x 2 = 528
4564
1000
5564
Protected Loss

646.21 Painted Curb
MM 1.12 130 FT. MM 1.26 60 L.F.
MM 1.24 130 FT.
MM 1.28 180 FT.

646.25 Durable Arrow Mkgs.
MM 1.12 Lt. Left Turn Lane 2 EA.
MM 1.24 Lt. " " 2 EA.

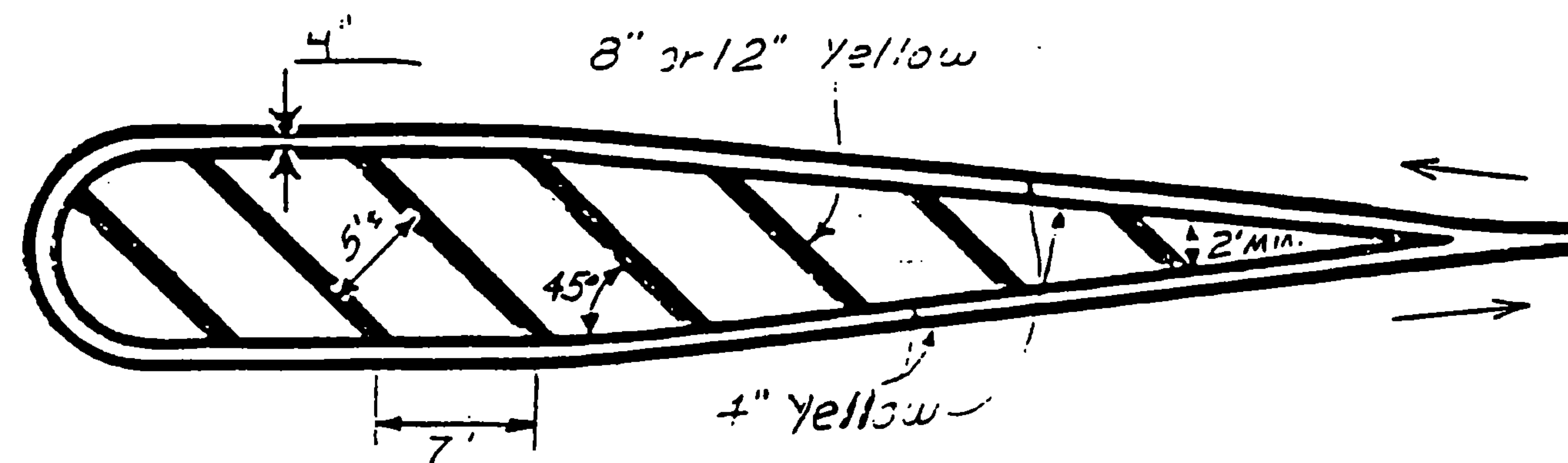
646.60 Durable 4" Reflectorized White Line
MM 1.12 Lt. Left Turn Lane 120'
MM 1.24 Rt. " " 170'

646.68 Durable 8" Reflectorized Yellow Lines
MM 1.13 ~ 1.225 Painted Island 1125 L.F.
MM 1.31 ~ 1.35 " " 220 L.F.

646.66 Durable Letter In Word Mkgs.
MM 1.12 Lt. Left Turn Lane " ONLY" 8 EA.
MM 1.24 Rt. " " " 8 EA.

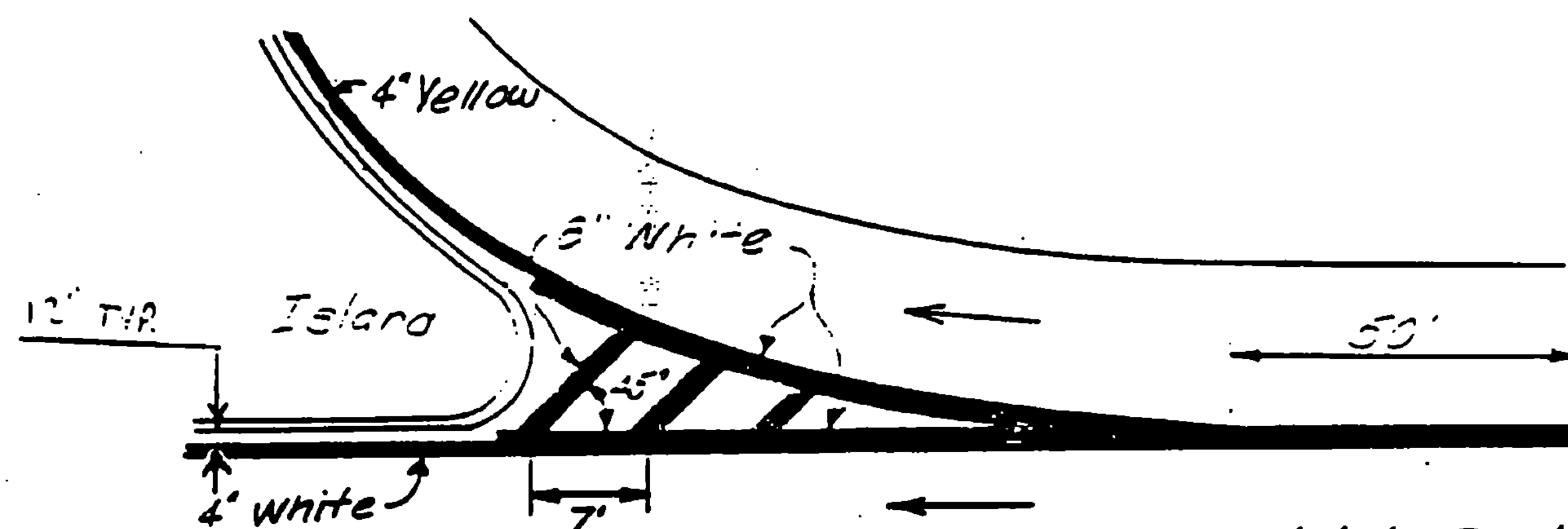
SPECIAL MARKING DETAILS

Painted Island Detail



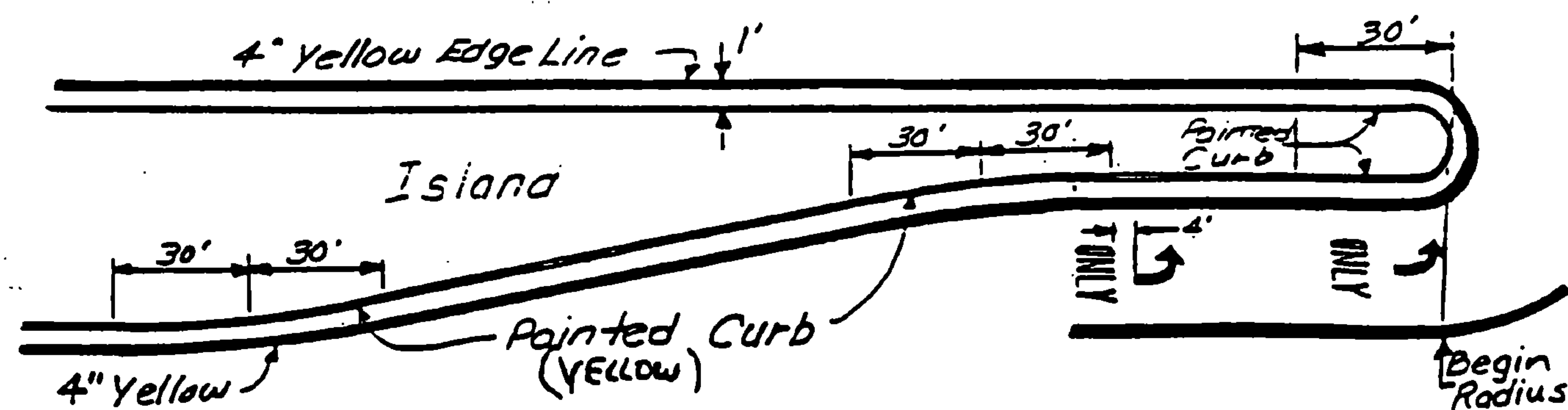
Not to Scale

Gore Marking Detail - Exit



Not to Scale

Turn Lane and Painted Curb Detail



Not to Scale

APPLICATION NOTES

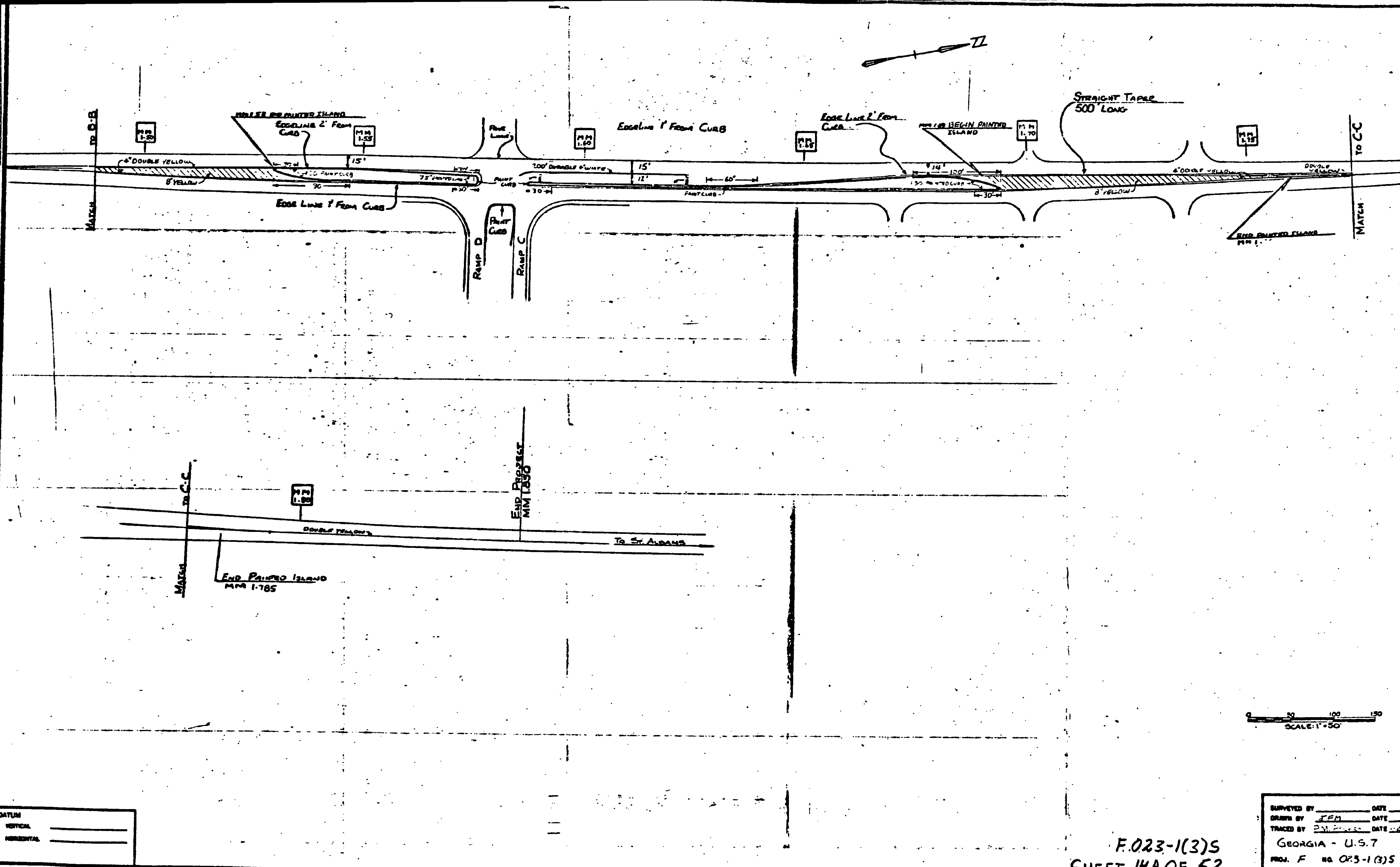
1. Edge lines shall be placed 1'-0" from curb.
2. Lane widths based on available roadway width. Preference shall be given to thru lanes with a preferred width of 12'. Left and right turn lanes may be between 10'-12' in width.
3. Exclusive turn lanes (left or right) - Turn lane lanes shall be solid and extend back from the stopbar an adequate distance to store turning vehicles. Generally, the lane line will extend back to the point of full lane width. The edge line taper rate should be 15:1 (minimum). In urban areas an 80' minimum is required. In both rural and urban areas a 200' taper is desirable. An estimate of length required can be determined by dividing the average hourly turning volume by the number of cycles per hour. Multiply the result by 25' per vehicle and then multiply by 1.5 to 2.0. Existing geometry may restrict turn lane length.
4. Turn arrows shall be placed at the begin and end of the left or right turn lane and in the middle if the lane length exceeds 200'.
5. Turn arrows placed at the end of the lane with the stop bar shall be placed with a 4' gap between the stop bar and arrow.
6. There shall be a 4' gap between turn arrows and word markings.
7. When word markings are used at the beginning of a turn lane the markings shall begin at the start of the solid white lane line.
8. The word marking STOP shall be placed with a 4' gap between the marking and the stop bar.
9. Gore markings shown are only approximate. Marking shall be as detailed on Standard Sheet E-50.
10. Stopbars shall be located no closer than 40' from the nearest signal face and no further than 120' from the furthest face. At intersections where there are existing vehicle detector loops, care should be taken in locating the stop bar. In most cases the stopbar should be at or just behind the front edge of the loop.



If loop locations are not known, contact either the Maintenance Division or Traffic Design for information.

11. Dotted line extensions (lane lines and/or centerline) may be used at some intersections to emphasize turning paths.

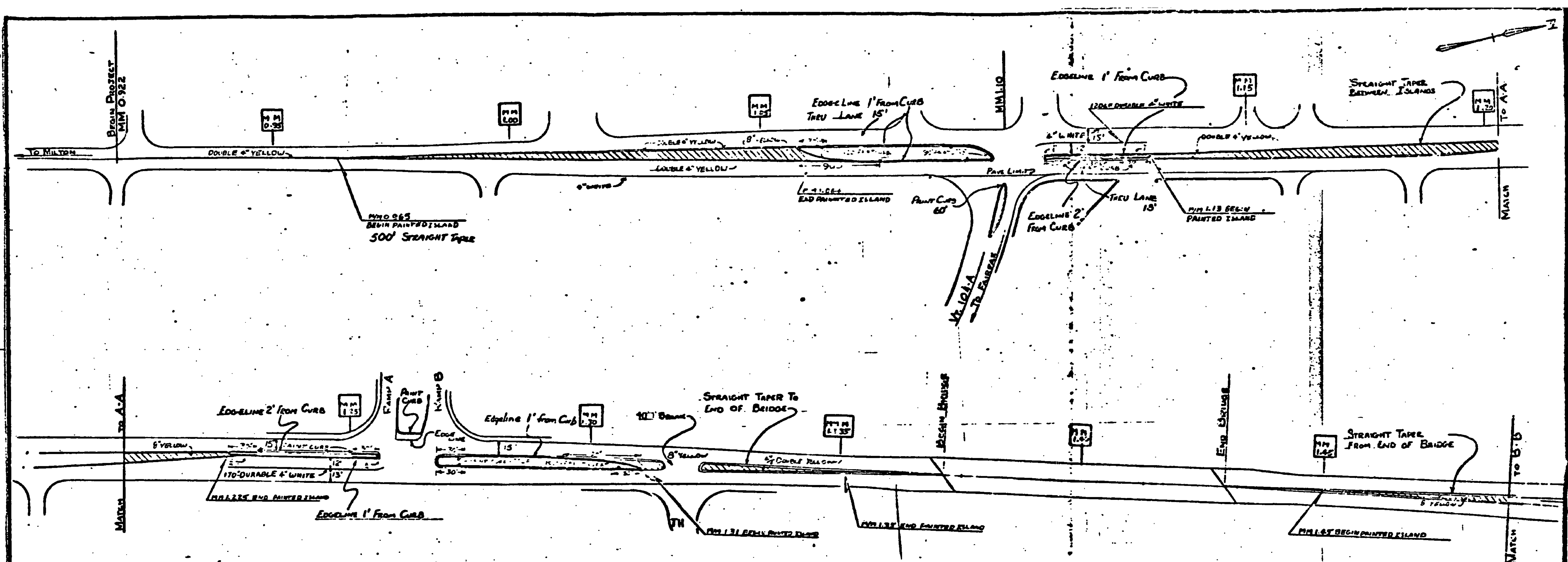
Revision - 11/84
 Note 3 revised
 Notes 10&11 added



DATUM	_____
VERTICAL	_____
HORIZONTAL	_____

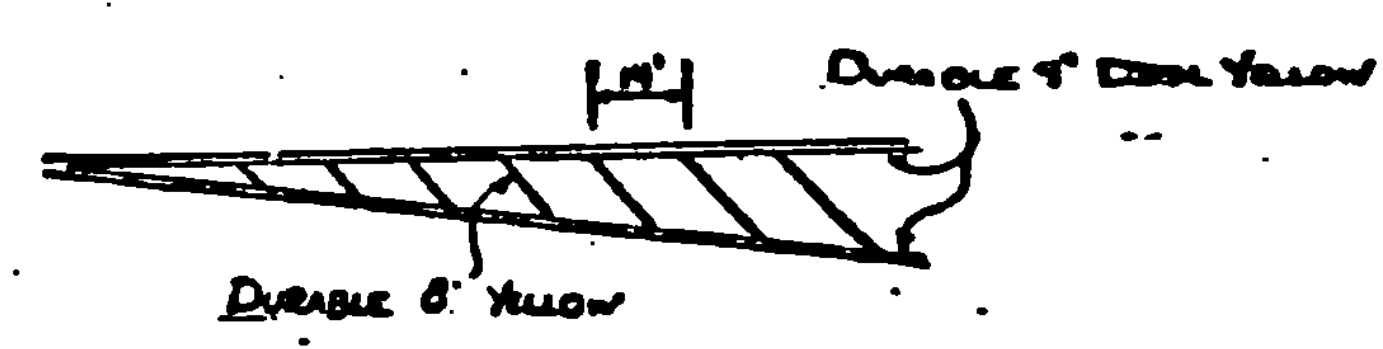
F.023-1(3)S
 SHEET 14A OF 52

SURVEYED BY	_____	DATE	_____
DRAWN BY	JEM	DATE	_____
TRACED BY	_____	DATE	_____
GEORGIA - U.S. 7			
PROJ. F	NO. 023-1(3)S		
SHEET	14A		



TEMPORARY 4\"/>

TEMPORARY 4\"/>

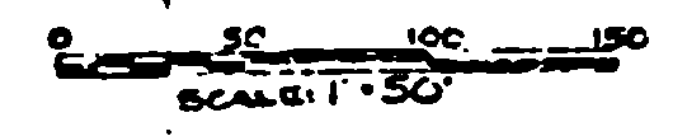


DURABLE 8\"/>

PAINTED CURB
 ISLAND - MM 1.06 ✓
 ISLAND - MM 1.10 ✓
 ISLAND - MM 1.12 ✓
 ISLAND - MM 1.24 ✓
 ISLAND - MM 1.26 ✓
 ISLAND - MM 1.28 ✓
 ISLAND - MM 1.35 ✓
 ISLAND - MM 1.42 ✓
 ISLAND - MM 1.45 ✓

DURABLE ARROW MARKINGS
 MM 1.12 LT-LT TURN LANE
 MM 1.24 RT-LT TURN LANE
 MM 1.60 LT-LT TURN LANE

DURABLE LETTER IN WORD MARKINGS
 MM 1.12 LT-LT TURN LANE - ONLY, ONLY
 MM 1.24 RT-LT TURN LANE - ONLY, ONLY
 MM 1.60 LT-LT TURN LANE - ONLY, ONLY

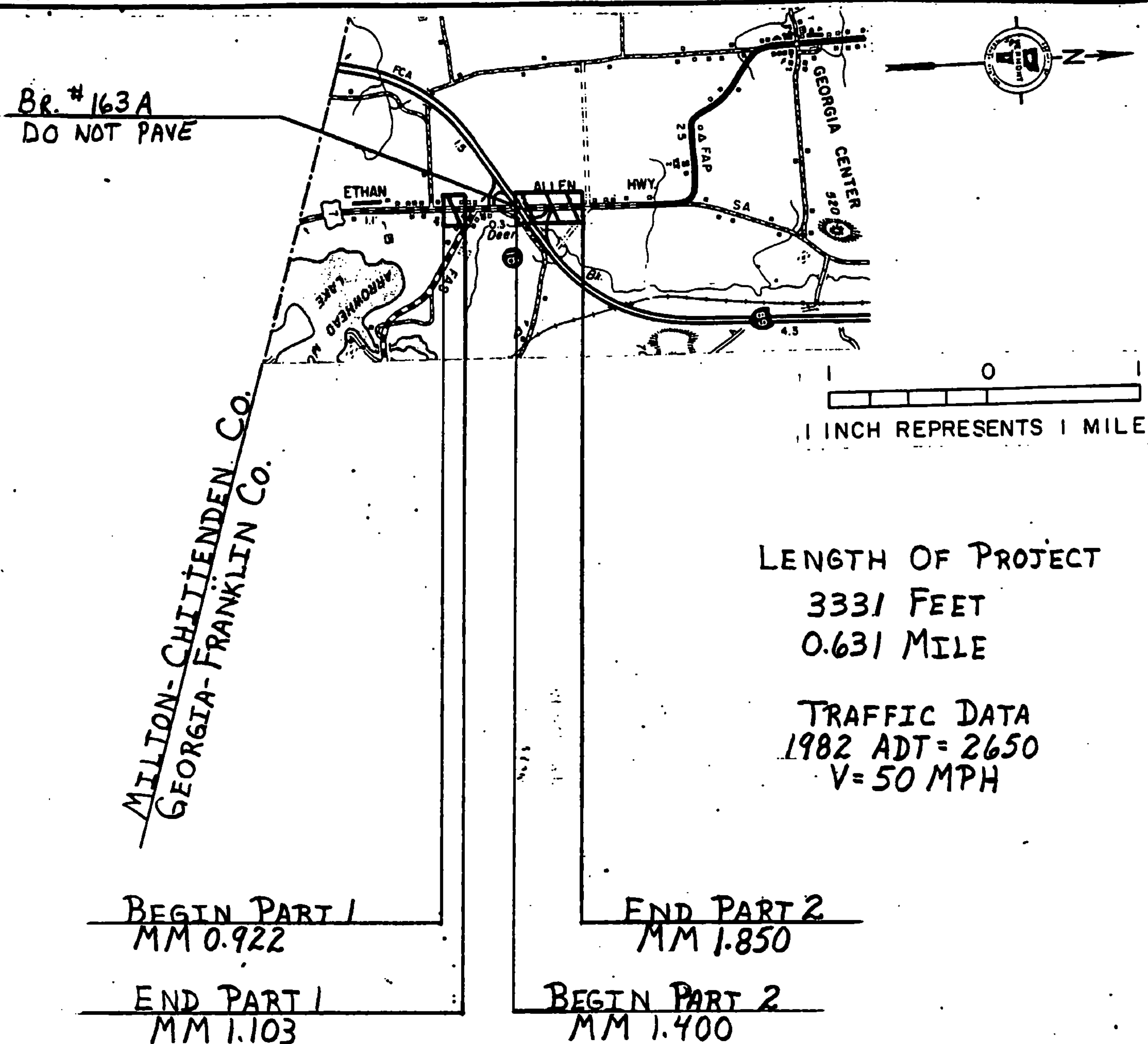


DATUM
 VERTICAL _____
 HORIZONTAL _____

F023-1(3)S
SHEET 14 OF 52

SURVEYED BY	DATE
DRAWN BY JFM	DATE
TRACED BY JFM	DATE
GEORGIA - U.S. Rte. 7	
PROJ. HMA	NO. 2636
DATE	OF 34

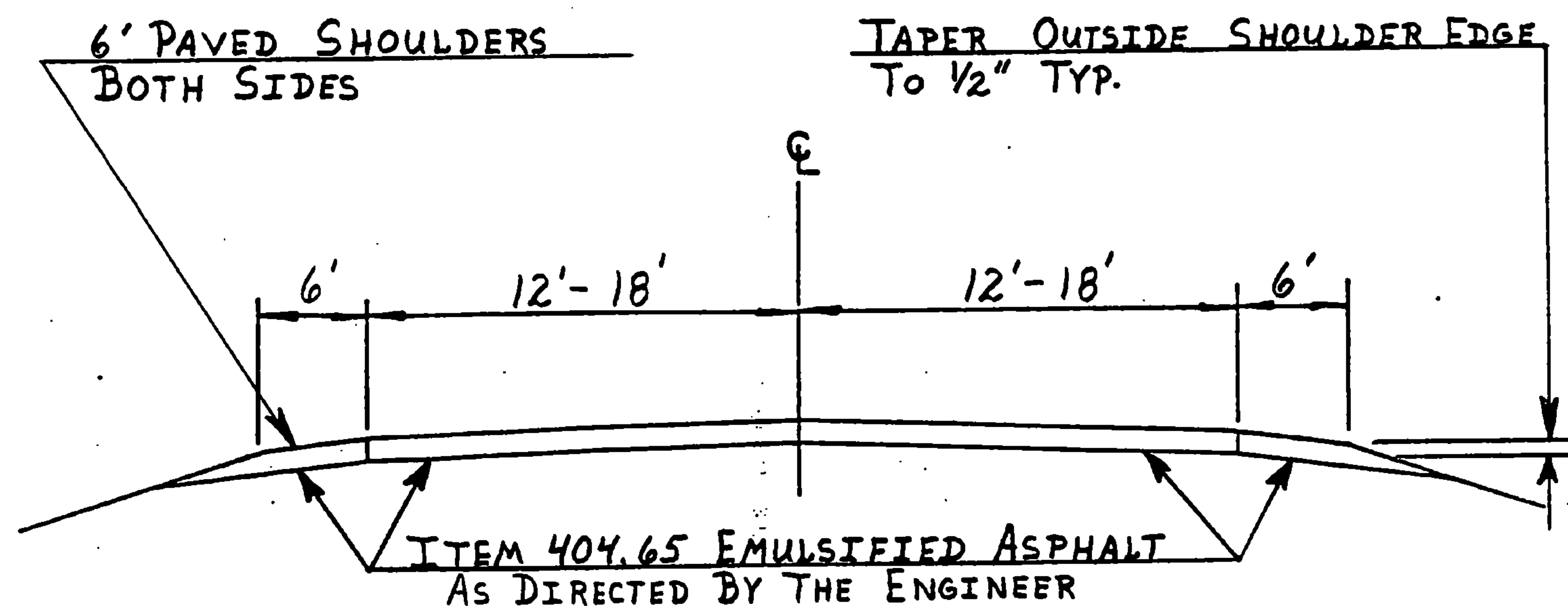
PROJECT DESCRIPTION AND LOCATION



THIS PROJECT IS DIVIDED INTO TWO PARTS - PART 1 BEGINS AT A POINT ON U.S. RTE 7 APPROX. 1 MILE NORTH OF THE MILTON-GEORGIA TOWN LINE AT MM 0.922 AND EXTENDS TO MM 1.103. PART 2 BEGINS AT MM 1.400 AND EXTENDS TO MM 1.850.

TYPICAL SECTIONS & DESIGN DATA

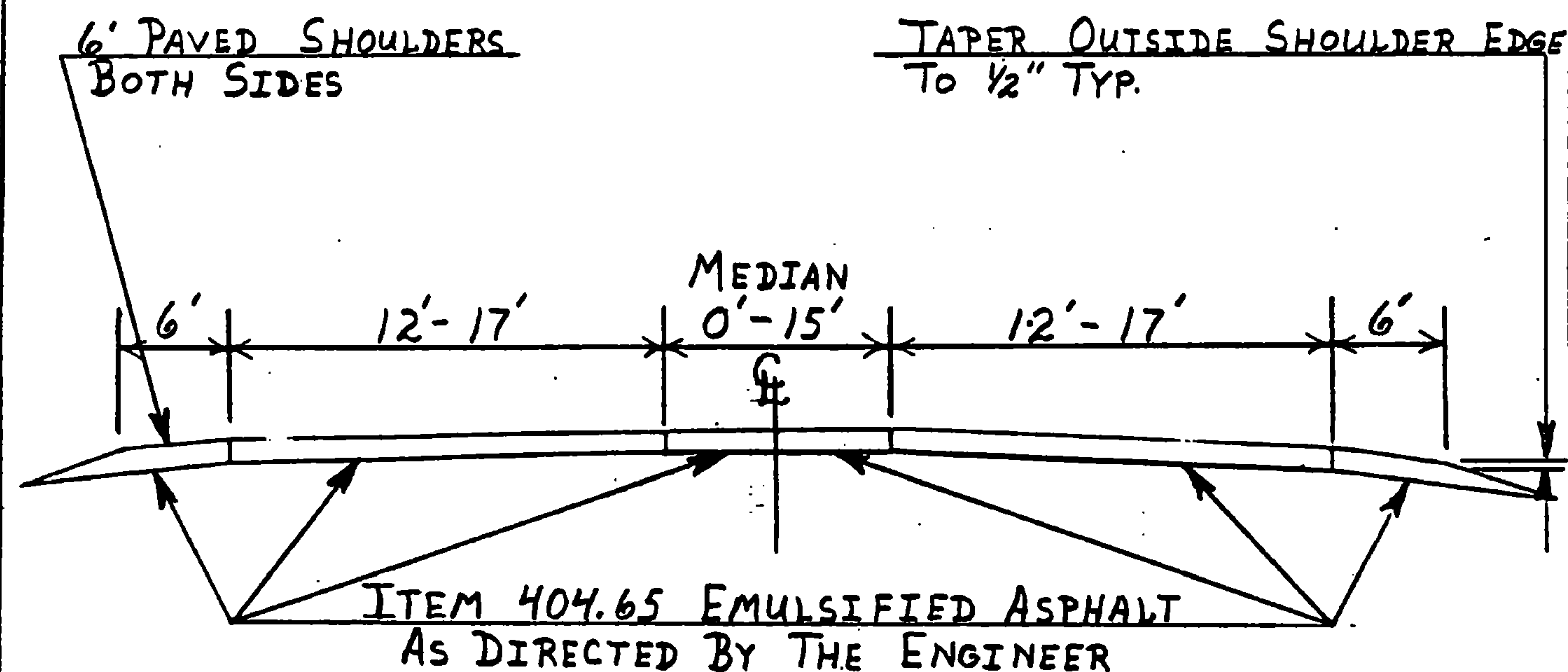
ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE, TYPE III OR IV (SEE TABLE BELOW)
 AS DIRECTED BY THE ENGINEER
 1" WEARING COURSE, TYPE III



DISTANCE	WIDTH PAVED SHOULDER	WIDTH TRAVELED-WAY	WIDTH PAVED SHOULDER	LEVEL TONNAGE / MILE
MM 0.922-0.97	6	34	6	386
MM 1.400-1.45	6	36	6	409
MM 1.58-1.59	6	36	6	409
MM 1.76-1.850	6	24	6	273

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE, TYPE III OR IV (SEE TABLE BELOW)
 AS DIRECTED BY THE ENGINEER
 1" WEARING COURSE, TYPE III



DISTANCE	WIDTH PAVED SHOULDER	WIDTH TRAVELED WAY	WIDTH PAVED MEDIAN	WIDTH PAVED SHOULDER	LEVEL TONNAGE/MILE
MM 0.97-1.06	6	34	0-15	6	472
MM 1.45-1.54	6	24	0-12	6	341
MM 1.69-1.76	6	24	0-12	6	341

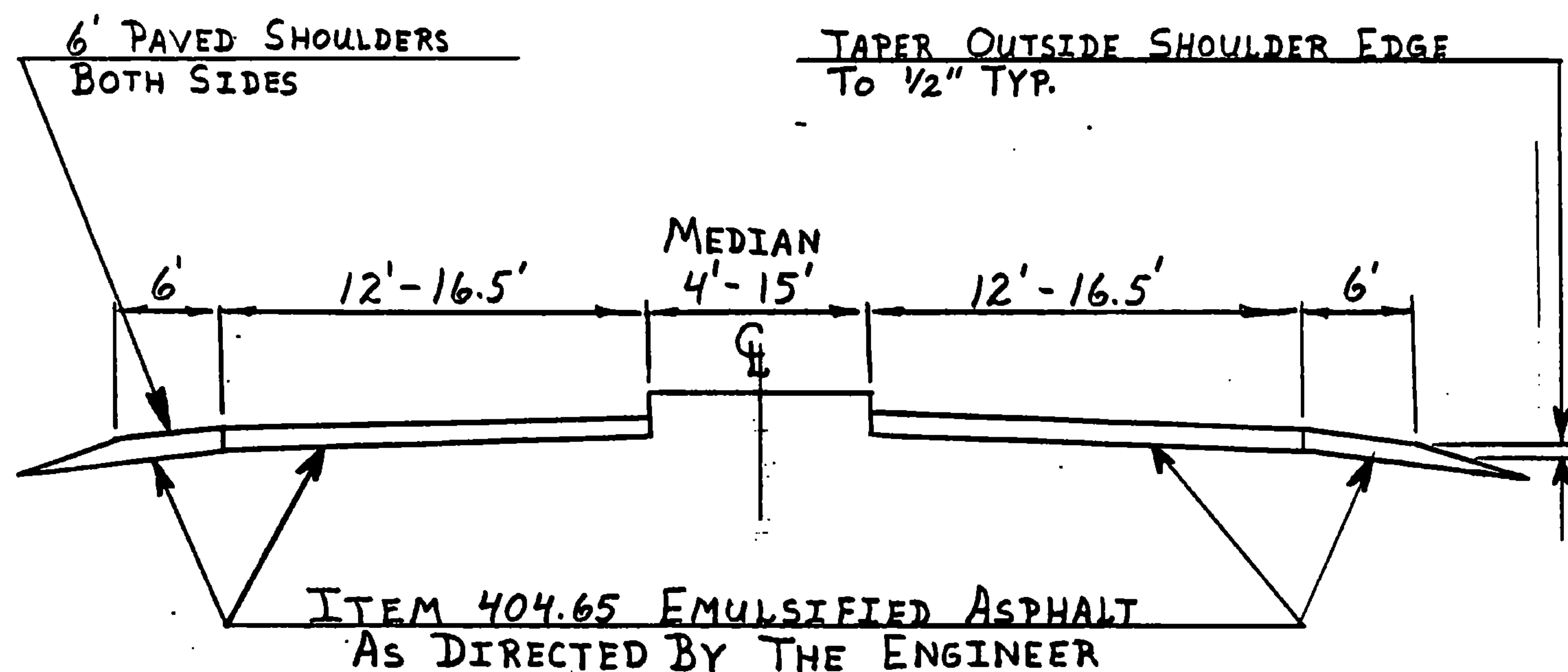
PROJECT GEORGIA

NO. RS 0285(8)

SHEET 17 OF 52 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE, TYPE III OR IV (SEE TABLE BELOW)
 AS DIRECTED BY THE ENGINEER
 1" WEARING COURSE, TYPE III



DISTANCE	WIDTH PAVED SHOULDER	WIDTH TRAVELED WAY	WIDTH UNPAVED MEDIAN	WIDTH PAVED SHOULDER	LEVEL TONNAGE/MILE
MM 1.06-1.103	6	33	15	6	375
MM 1.54-1.58	6	24	12	6	273
MM 1.59-1.69	6	24	4-12	6	273

ITEM DESCRIPTION											
	LENGTH	OVERLAY DEPTH	SHOULDER WIDTH	WIDTH-TRAVELED WAY	WIDTH-PAVED MEDIAN	LEVELING COURSE		EMULSIFIED ASPHALT	BITUMINOUS CONC. PAVT.	CHANGE ELEV. D.I.C.B. M.H.	ALL PURPOSE Exc. RENTAL
ITEM NUMBER								404.65	406.25	604.40	608.25
UNIT	FT.	IN.	FT.	FT.	FT.	T/MI.		CWT	TON	EA.	HR.
LOCATION											
MM 0.922-0.97	253	1	12	34	-			2.	72.		
						386			19.		PAVED SHOULDERS LEVEL
MM 0.97-1.06	475			34	7.5			4.	157.		
						472			42.		
MM 1.06-1.103	227			33	-			1.	63.		
						375			16.		
MM 1.400-1.45	264			36	-			2.	78.		
						409			20.		
MM 1.45-1.54	475			24	6			3.	106.		
						341			31.		
MM 1.54-1.58	211			24	-			1.	47.		
						273			11.		
MM 1.58-1.59	53			36	-			1.	16.		
						409			4.		
MM 1.59-1.69	528			24	-			3.	117.		
						273			27.		
MM 1.69-1.76	370			24	6			2.	96.		
						341			24.		
MM 1.76-1.850	475	1	12	24	-			2.	106.		PAVED SHOULDERS LEVEL
						273			25.		
								2	100		APPROACHES
PROJECT EST.										1	5
ROUNDING								2	23		
TOTAL								25.	1200	1.	5.

NO. RS 0285(8)

SHEET 19 OF 52 SHEETS

PROJECT GEORGIA

[illegible]

N

DURABLE LETTER IN WORD MKGS

PROJECT <u>GEORGIA</u>	NO. <u>RS 0285(8)</u>
	SHEET <u>198</u> OF <u>52</u> SHEETS

646.35 WHITE REFLECTORIZED LINE
MM 0.922-1.103 = 956 L.F. x 2 = 1912
MM 1.40~1.850 = 2376 L.F. x 2 = 4752
6664

646.36 REFLECTORIZED YELLOW LINE
0.920-0.965 = 240x2 = 480 L.F.
0.965~1.060 = 500x4 = 2000 L.F.

1.060~1.100 = 210x2 = 420 L.F.

1.110~1.103 = 16x2 = 32 L.F.

1.40~1.438 = 200x2 = 400 L.F.

1.438~1.530 = 488x4 = 1952 L.F.

1.530~1.577 = 250x2 = 500 L.F.

1.589~1.690 = 535x2 = 1070 L.F.

1.690~1.785 = 510x4 = 2040 L.F.

1.785~1.850 = 345x2 = 690 L.F.

9684
9684x1.75(Loss) = 16947 L.F.

646.21-PAINTED CURB

MM 1.06 210 L.F. MM 1.59 60 L.F.

MM 1.10 60 L.F. MM 1.65 255 L.F.

MM 1.55 190 L.F.

646.60 DURABLE 4" REFLECT. YELLOW LINES
MM 1.60 200 L.F.

646.62 DURABLE 8" REFLECT. YELLOW LINES
MM 0.975~1.07-420 L.F.

M.M.1.45~1.53 640 L.F.

M.M.1.69~1.76 560 L.F.

BY _____ DATE _____
CHKD. BY _____ DATE _____

SUBJECT GEORGIA
CENTERLINE MKGS.

SHEET NO. _____ OF _____
JOB NO. RS 0285(8)

646.65- DURABLE ARROW MKGS.

MM 1.60 - 2 EA.

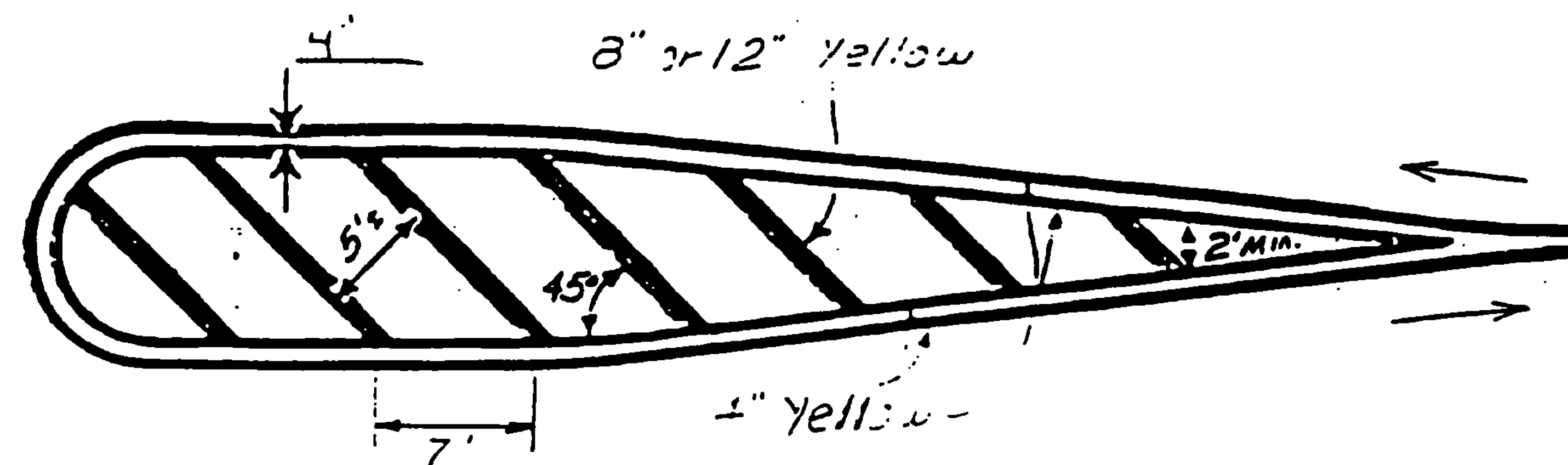
646.66 DURABLE LETTER IN WORD MKGS.

MM 1.60 - 8 EA

Georgia RS 0285(8)
Sheet 20A Of 52 Sheets

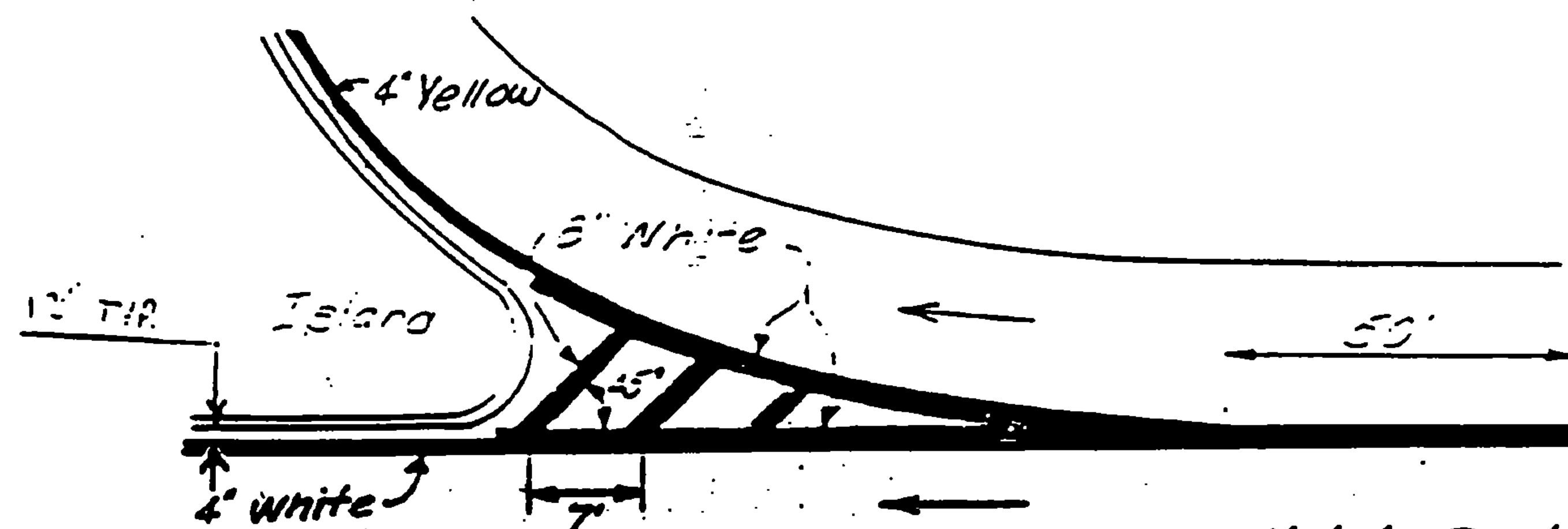
SPECIAL MARKING DETAILS

Painted Island Detail



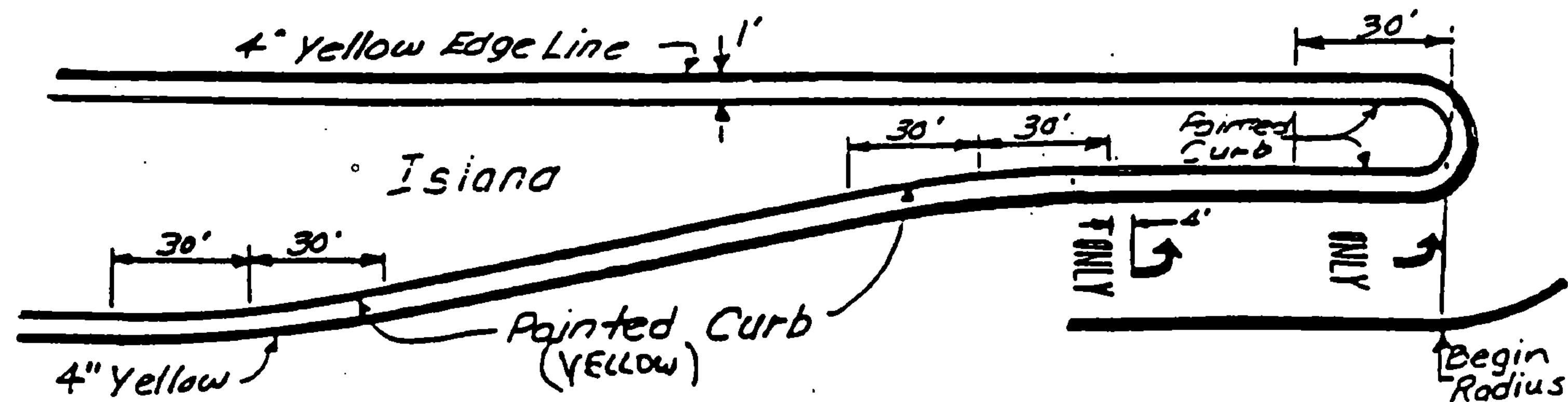
Not to Scale

Gore Marking Detail - Exit



Not to Scale

Turn Lane and Painted Curb Detail



Not to Scale

APPLICATION NOTES

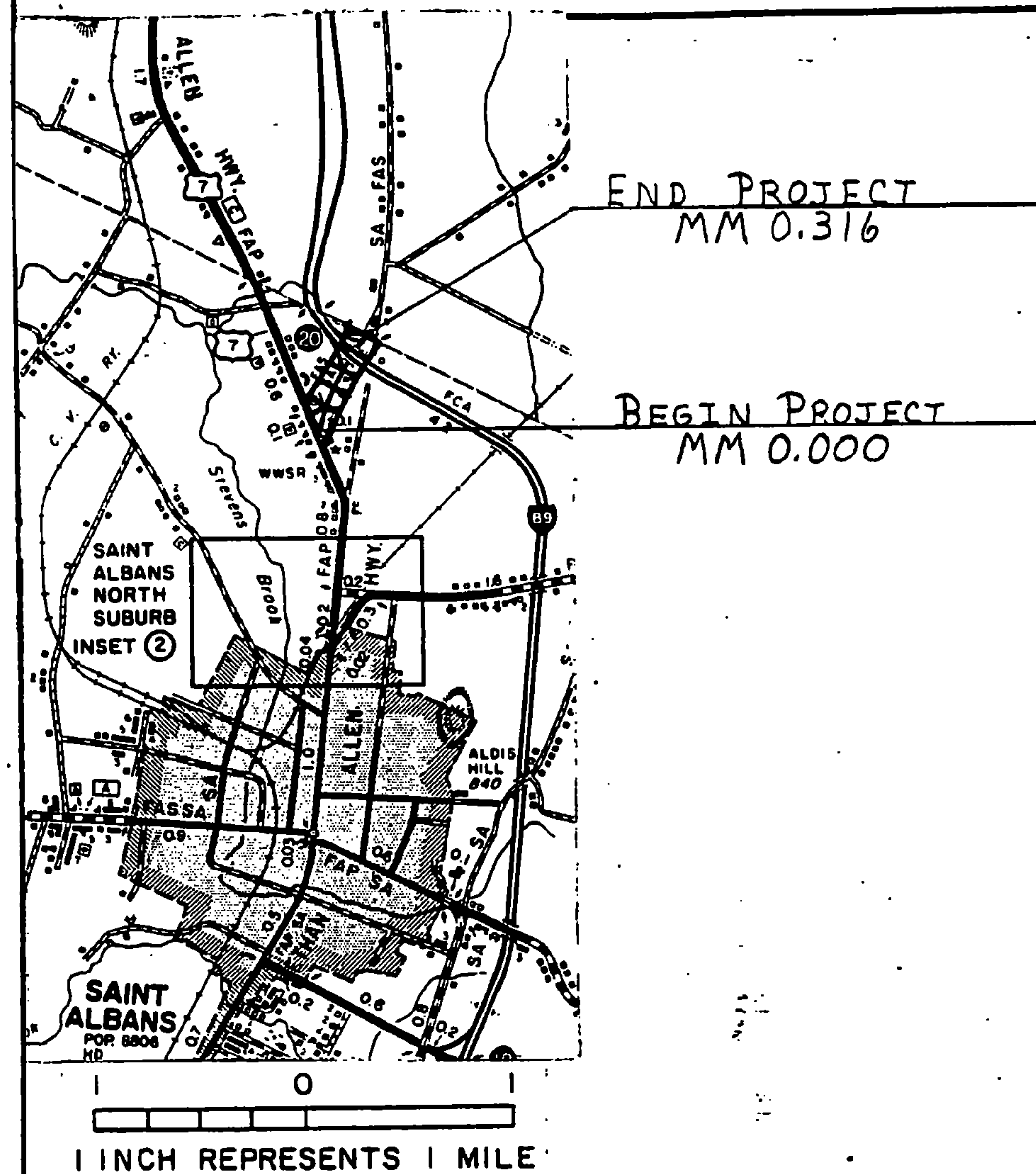
1. Edge lines shall be placed 1'-0" from curb.
2. Lane widths based on available roadway width. Preference shall be given to thru lanes with a preferred width of 12'. Left and right turn lanes may be between 10'-12' in width.
3. Exclusive turn lanes (left or right) - Turn lane lanes shall be solid and extend back from the stopbar an adequate distance to store turning vehicles. Generally, the lane line will extend back to the point of full lane width. The edge line taper rate should be 15:1 (minimum). In urban areas an 80' minimum is required. In both rural and urban areas a 200' taper is desirable. An estimate of length required can be determined by dividing the average hourly turning volume by the number of cycles per hour. Multiply the result by 25' per vehicle and then multiply by 1.5 to 2.0. Existing geometry may restrict turn lane length.
4. Turn arrows shall be placed at the begin and end of the left or right turn lane and in the middle if the lane length exceeds 200'.
5. Turn arrows placed at the end of the lane with the stop bar shall be placed with a 4' gap between the stop bar and arrow.
6. There shall be a 4' gap between turn arrows and word markings.
7. When word markings are used at the beginning of a turn lane the markings shall begin at the start of the solid white lane line.
8. The word marking STOP shall be placed with a 4' gap between the marking and the stop bar.
9. Gore markings shown are only approximate. Marking shall be as detailed on Standard Sheet E-50.
10. Stopbars shall be located no closer than 40' from the nearest signal face and no further than 120' from the furthest face. At intersections where there are existing vehicle detector loops, care should be taken in locating the stop bar. In most cases the stopbar should be at or just behind the front edge of the loop.



If loop locations are not known, contact either the Maintenance Division or Traffic Design for information.

11. Dotted line extensions (lane lines and/or centerline) may be used at some intersections to emphasize turning paths.

PROJECT DESCRIPTION AND LOCATION



BEGINNING AT THE JUNCTION OF U.S. RTE. 7 AND VT. RTE. 207 AT MM 0.000 AND PROCEEDING NORTH EASTERLY .316 MILES TO MM 0.316, THE TERMINUS OF VT. RTE. 207. INCLUDING APPROACH OF 0.167 MILES:

LENGTH OF PROJECT
0.483 MILES
2550 FEET

TRAFFIC DATA
1982 ADT 2640
V= 50

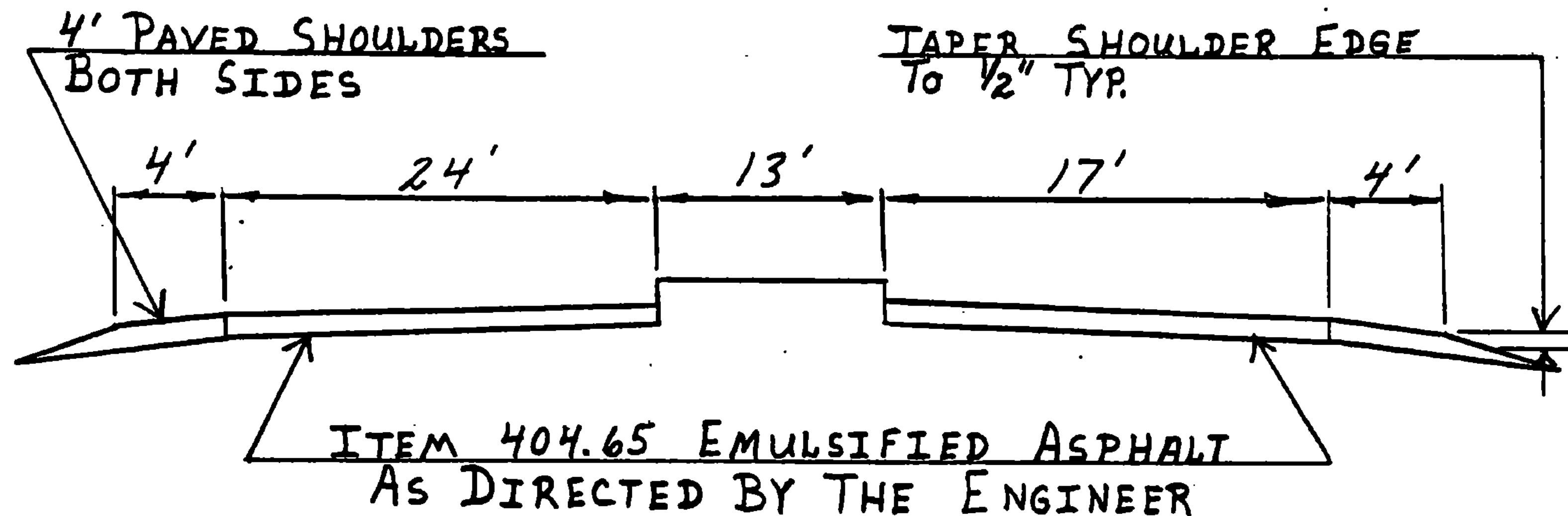
PROJECT ST. ALBANS

NO. RS 0297(7)

SHEET 23 OF 52 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE, TYPE III OR IV (41' WIDE @ 559 TONS/ML)
AS DIRECTED BY THE ENGINEER
1" WEARING COURSE, TYPE III



ST. ALBANS MM 0.000~0.085

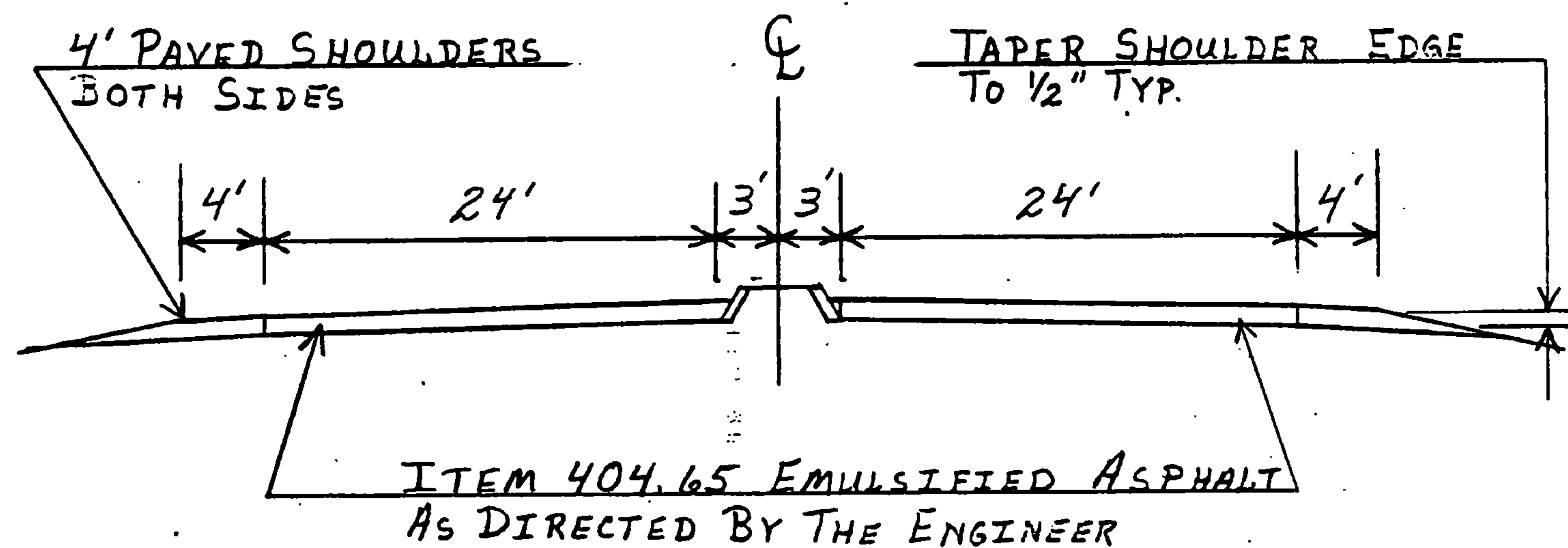
PROJECT ST. ALBANS

NO. RS 0297(7)

SHEET 24 OF 52 SHEETS

TYPICAL SECTIONS & DESIGN DATA

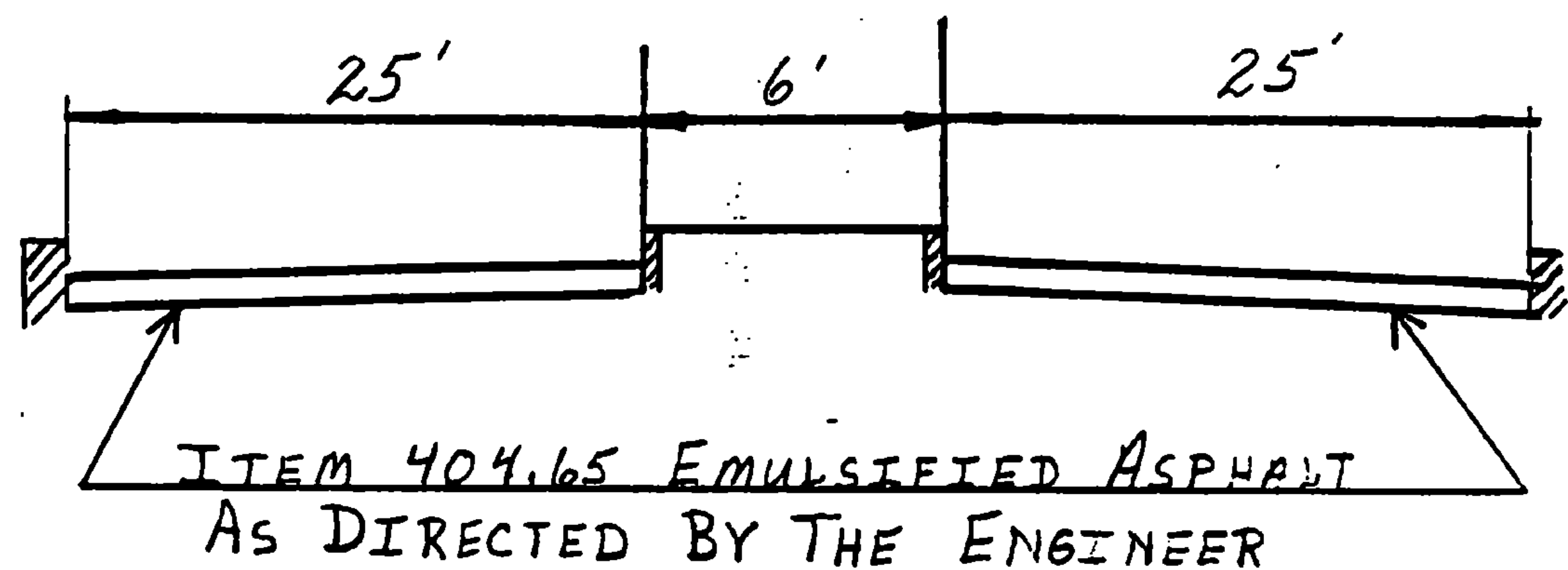
ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE, TYPE III OR IV (48' WIDE @ 655 TONS/MI.)
 AS DIRECTED BY THE ENGINEER
 1" WEARING COURSE, TYPE III



ST. ALBANS MM 0.085~0.221

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
LEVELING COURSE, TYPE III OR IV (50' WIDE @ 682 TONS) MI.)
AS DIRECTED BY THE ENGINEER
1" WEARING COURSE, TYPE III



ST. ALBANS MM 0.221~0.316

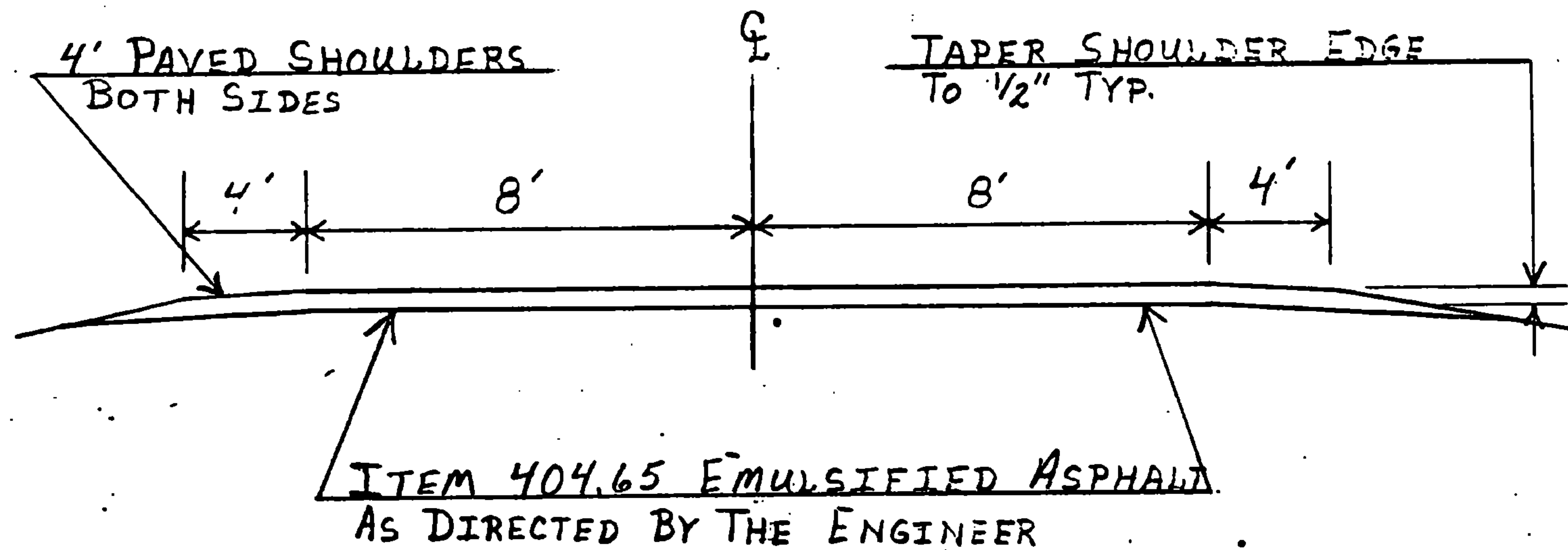
PROJECT ST. ALBANS

NO. RS 0297(7)

SHEET 26 OF 52 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE, TYPE III OR IV (16' WIDE @ 218 TONS/MI.)
 AS DIRECTED BY THE ENGINEER
 1" WEARING COURSE, TYPE III



ST. ALBANS - APPROACH RAMP 0.167 MI.

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	OPTION														
	LENGTH	WIDTH	OVERLAY DEPTH	LEVELING COURSE	GRAVEL SHOULDERS	GRAVEL SHOULDERS	EMULSIFIED ASPHALT	BITUMINOUS CONCRETE PAVEMENT	POWER BROOM RENTAL	CHANGE ELEV. OF CB, DI OR MH	UNIFORMED TRAFFIC OFFICERS	FLAGPERSONS	MOBILIZATION	TOPSOIL	
ITEM NO					402.10	402.11	404.65	406.25	608.30	604.40	630.10	630.15	635.10	653.10	
UNIT	FT.	FT.	IN.	TONS/MI	CY.	TON	CWT	TON	HR	EA.	HR.	HR.	L.S.	C.Y.	
LOCATION															
MM 0.00~0.085	449	41	1	559	-	-	3.	136.							4' PAVED SHOULDERS
								48.							LEVEL @ 559 TONS/MI.
MM 0.085~0.221	718	48	1	655	-	-	6.	248.							4' PAVED SHOULDERS
								89.							LEVEL @ 655 TONS/MI.
MM 0.221~0.316	502	50	1	682	-	-	3.	155.							6' MEDIAN
								65.							CURB to CURB
APPROACH SEC.	881	16	1	218	-	-	3.	130.							LEVEL @ 682 TONS/MI.
								36.							4' PAVED SHOULDERS
															LEVEL @ 218 TONS/MI.
PROJECT EST.							2	100	4	1	50	50	0.04	10	
ROUNDING							3	3	1		5	5			
TOTAL	2550						20.	1010.	5.	1.	55.	55.	0.04	10.	

PROJECT ST. ALBANS

NO. RS-0297(7)

SHEET 28 OF 52

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	ITEM QUANTITIES											
	LENGTH	WIDTH	ALL PURPOSE EXCAVATOR RENTAL TYPE 1	PAINTED CURB	TEMP. 4" REFLECT. WHITE LINE	TEMP. 4" REFLECT. YELLOW LINE	DUR. 4" REFLECT. WHITE LINE	DUR. 4" REFLECT. YELLOW LINE	DUR. 8" REFLECT. WHITE LINE	DUR. 24" STOP BAR	DUR. ARROW MKGS. DUR. LETTER IN WORD MKGS.	
ITEM NO			608.25	646.21	646.35	646.36	646.60	646.61	646.62	646.64	646.65	646.66
UNIT	FT.	FT	HR.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	EA.	EA.
LOCATION												
PROJECT EST.			5	287	4778	3319	490	380	411	24	2	21
ROUNDING				3	22	11	5	10	9			
TOTAL			5	290	4800	3330	495	390	420	24	2	21

TEMP. 4" WHITE LINE
EDGE LINES RT.-AS SHOWN
CENTER LINES (DASHED) AS SHOWN

DURABLE 4" WHITE LINE
LANE LINE @ INTERSECTION-AS SHOWN

DURABLE 24" STOP BARS
U.S. 7 INTERSECTION-AS SHOWN

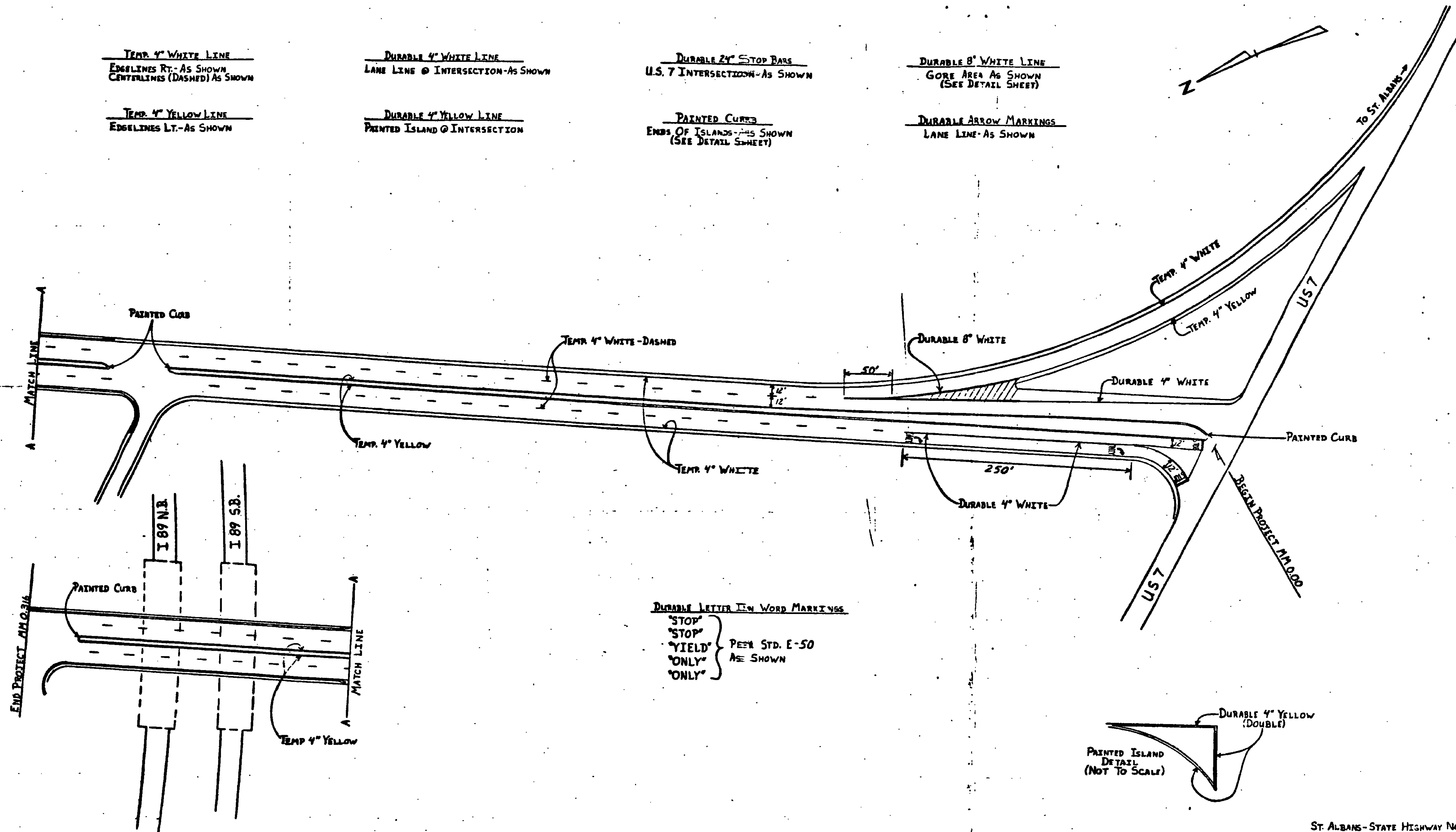
DURABLE 8" WHITE LINE
GORE AREA AS SHOWN
(SEE DETAIL SHEET)

TEMP. 4" YELLOW LINE
EDGE LINES LT.-AS SHOWN

DURABLE 4" YELLOW LINE
PRINTED ISLAND @ INTERSECTION

PAINTED CURBS
ENDS OF ISLANDS-AS SHOWN
(SEE DETAIL SHEET)

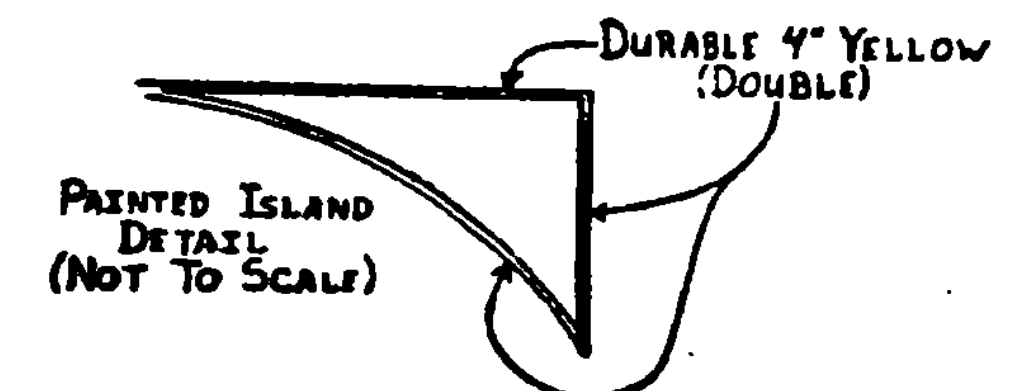
DURABLE ARROW MARKINGS
LANE LINE-AS SHOWN



DURABLE LETTER IN WORD MARKINGS

"STOP"
"STOP"
"YIELD"
"ONLY"
"ONLY"

PER STD. E-50
AS SHOWN



0 50 100 150
SCALE 1" = 50'

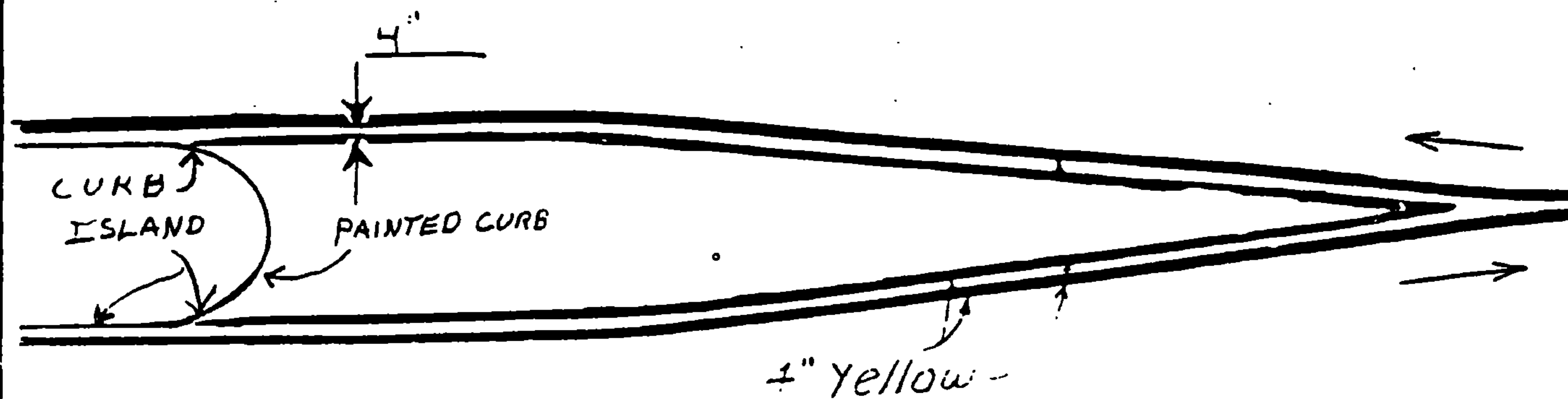
SHEET 29 OF 52

ST. ALBANS-STATE HIGHWAY NO.

SURVEYED BY _____ DATE _____
DRAWN BY JLR DATE _____
TRACED BY JLR DATE _____
ST. ALBANS VT. 207
PROJ. RS NO. 0297(?)
SHEET OF

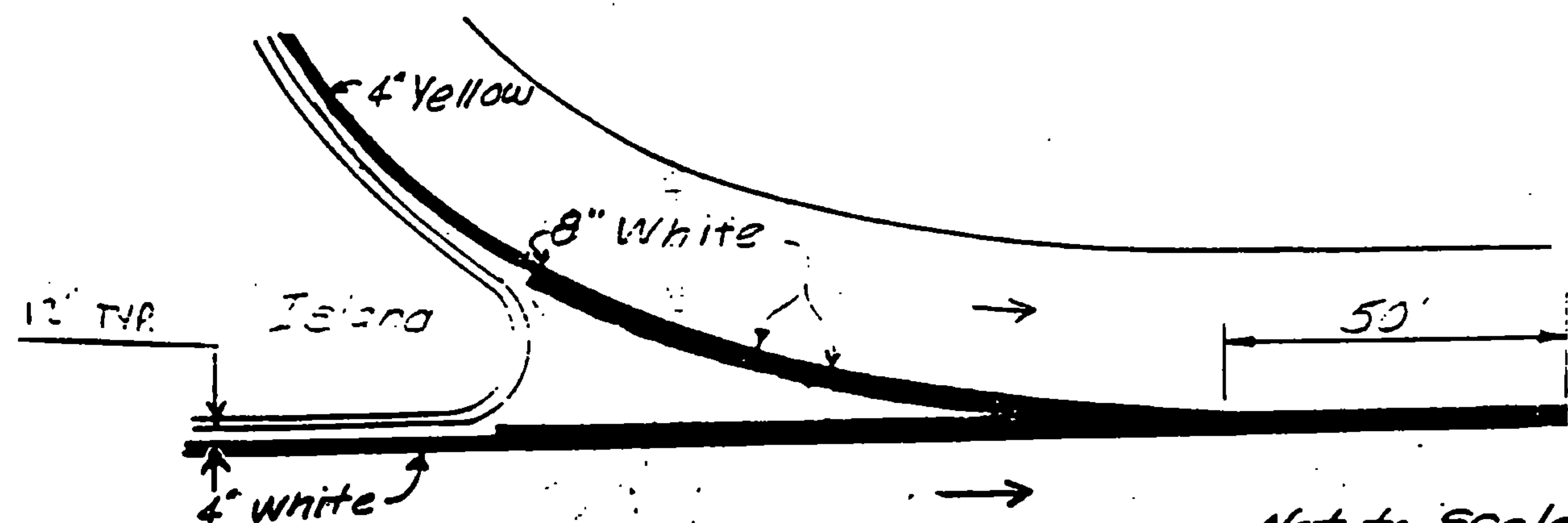
SPECIAL MARKING DETAILS

Painted Island Detail



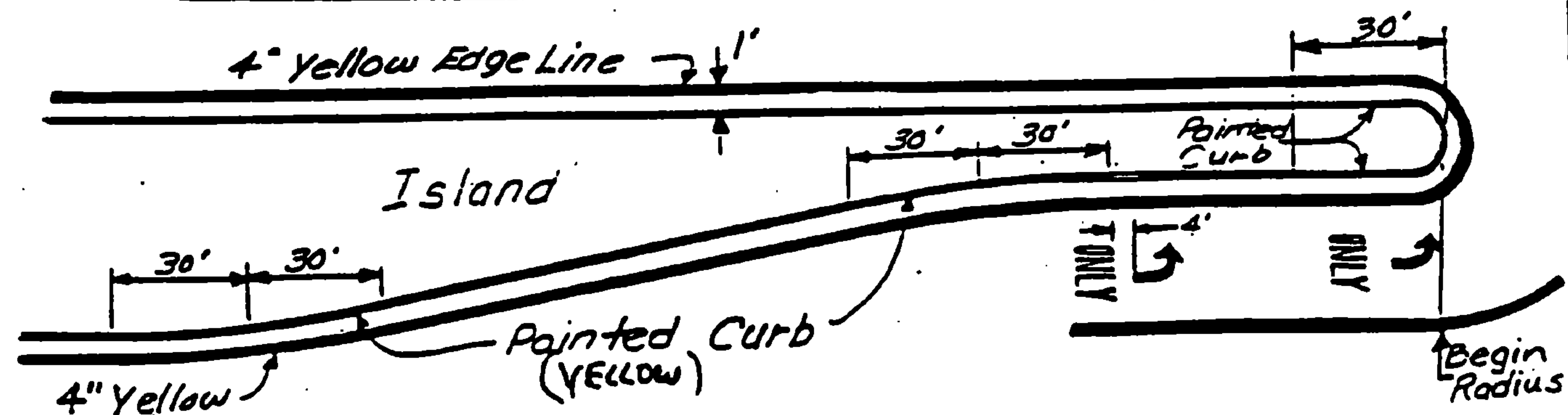
Not to Scale

Gore Marking Detail



Not to Scale

Turn Lane and Painted Curb Detail



Not to Scale

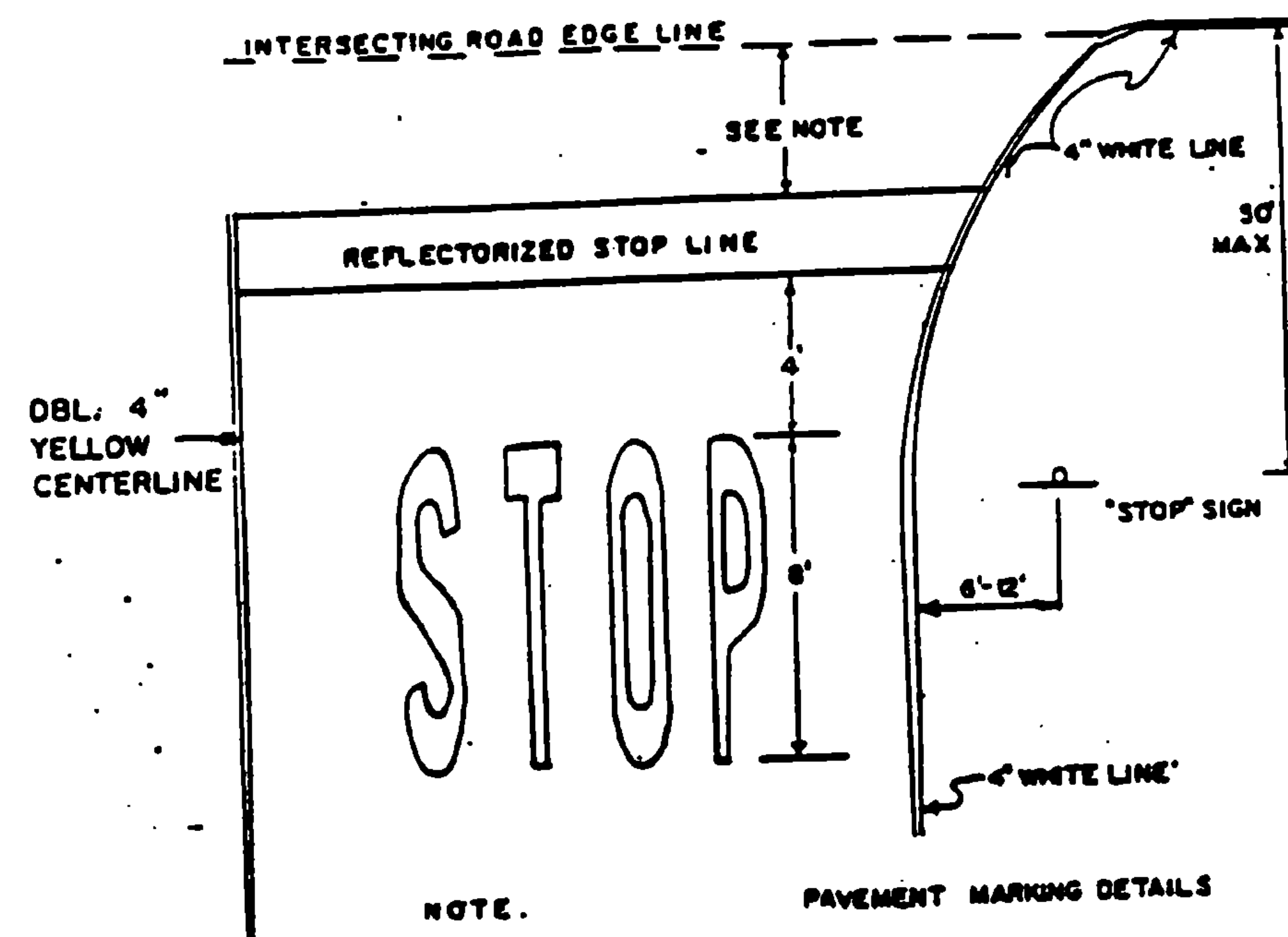
NO. RS 0297(7)

SHEET 30 OF 52 SHEETS

PROJECT ST. ALBANS

STOP BAR DETAILS

13.



NOTE:
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.

NOT TO SCALE

AHEAD

NOTE:
SEE STANDARD E-50
FOR LETTERING DETAIL.

16'
16'



STOP AHEAD SIGN

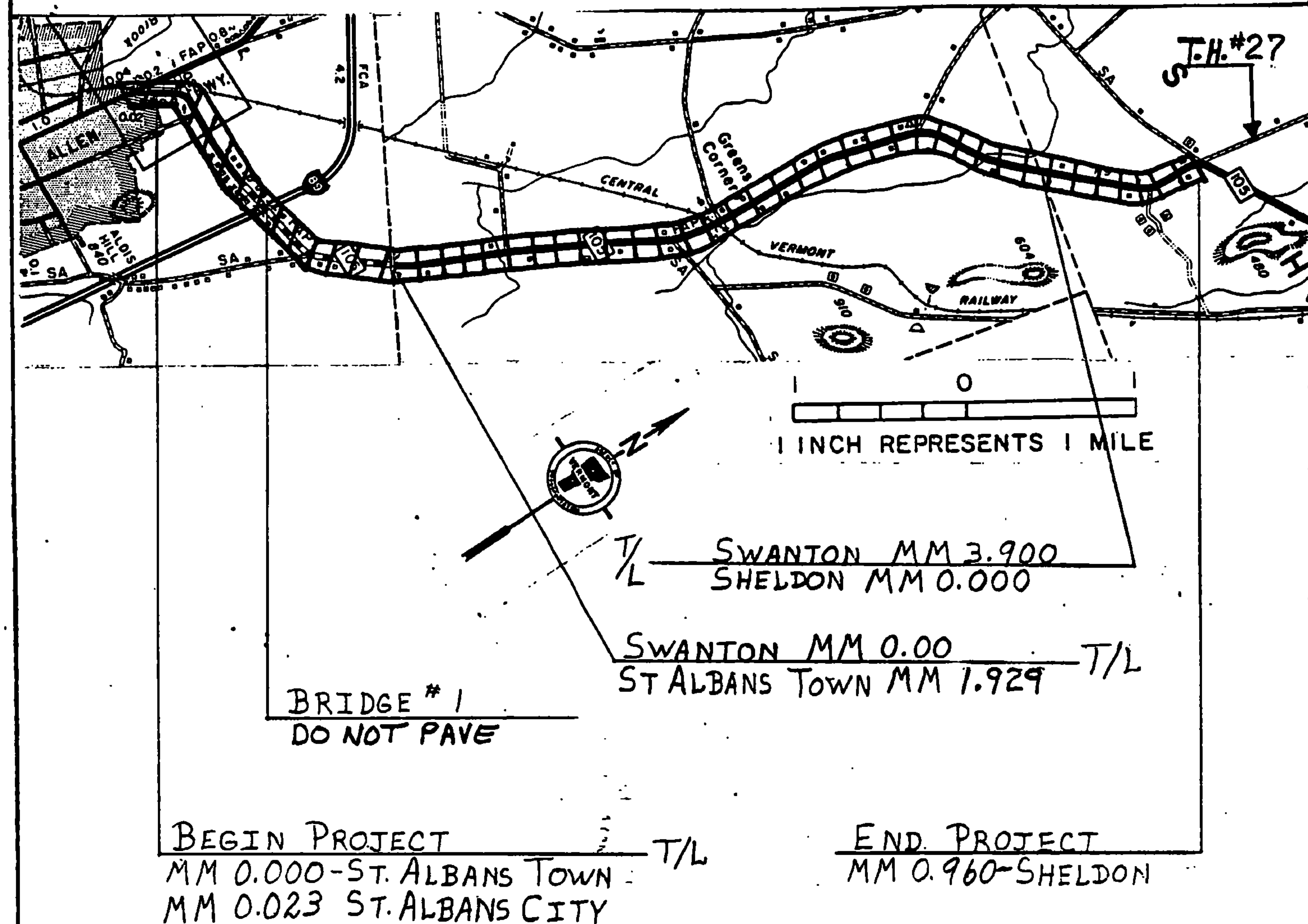
STOP

No. RS 0297(7)

PROJECT ST. ALBANS

SHEET 31 OF 52 SHEETS

PROJECT DESCRIPTION AND LOCATION



SEGMENT #1

BEGINNING AT A POINT ON VT. RTE. 105, MM 0.000 (ST ALBANS TOWN) ABOUT 1/10 MI. EASTERLY OF THE JCT. OF U.S. RTE. 7 AND VT. RTE. 105, AND PROCEEDING EASTERLY A DISTANCE OF 6.789 MILES TO SHELDON MM 0.960-INTERSECTION OF TOWN ROAD 27 AND VT. RTE. 105.

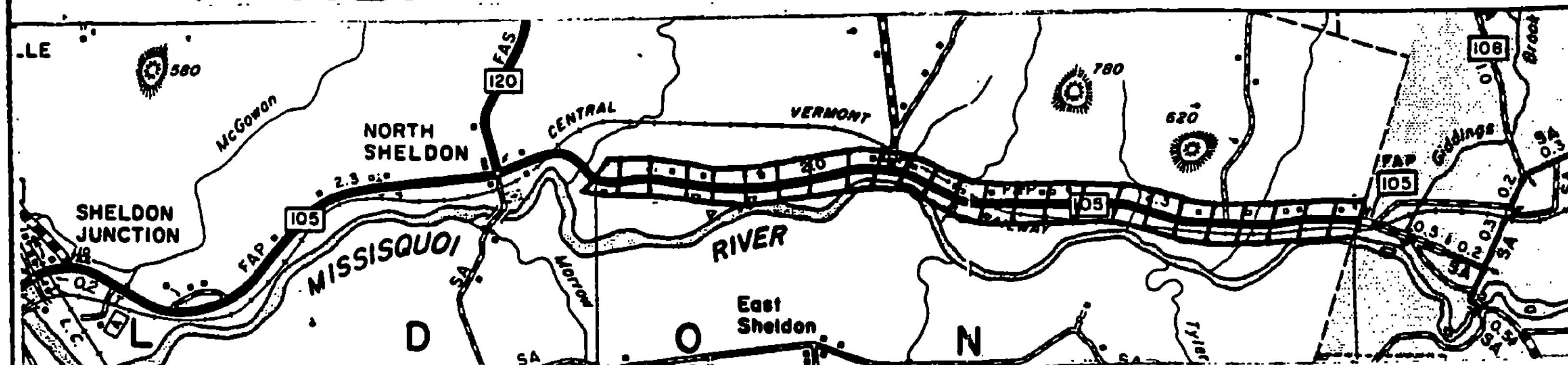
LENGTH OF SEGMENT 1
6.789 MI.
35846 FT.

PROJECT ST. ALBANS-SHELDON

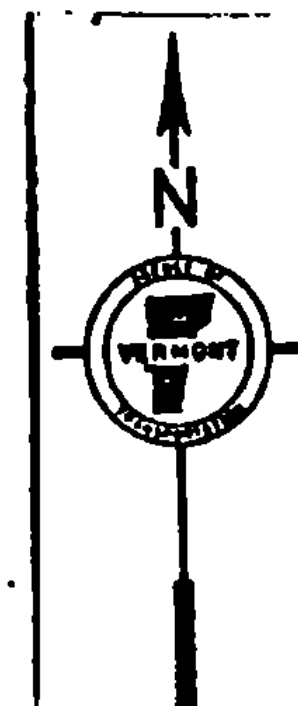
NO. HMA 2625

SHEET 32 OF 52 SHEETS

PROJECT DESCRIPTION AND LOCATION



1 INCH REPRESENTS 1 MILE



BEGIN PROJECT
MM 7.400

END PROJECT
MM 11.030

T/L END PROJECT SHELDON MM 11.030
ENOSBURG MM 0.000

SEGMENT #2

BEGINNING AT A POINT ON VT. RTE. 105, APPROX. .56 MI. EAST OF THE JCT. OF VT. RTE. 120+105 AT MM 7.400, THENCE EASTERLY A DISTANCE OF 3.630 MI. TO THE SHELDON-ENOSBURG TOWN LINE AT MM 11.030.

LENGTH OF SEGMENT 2
3.630 MILES
19166 FEET

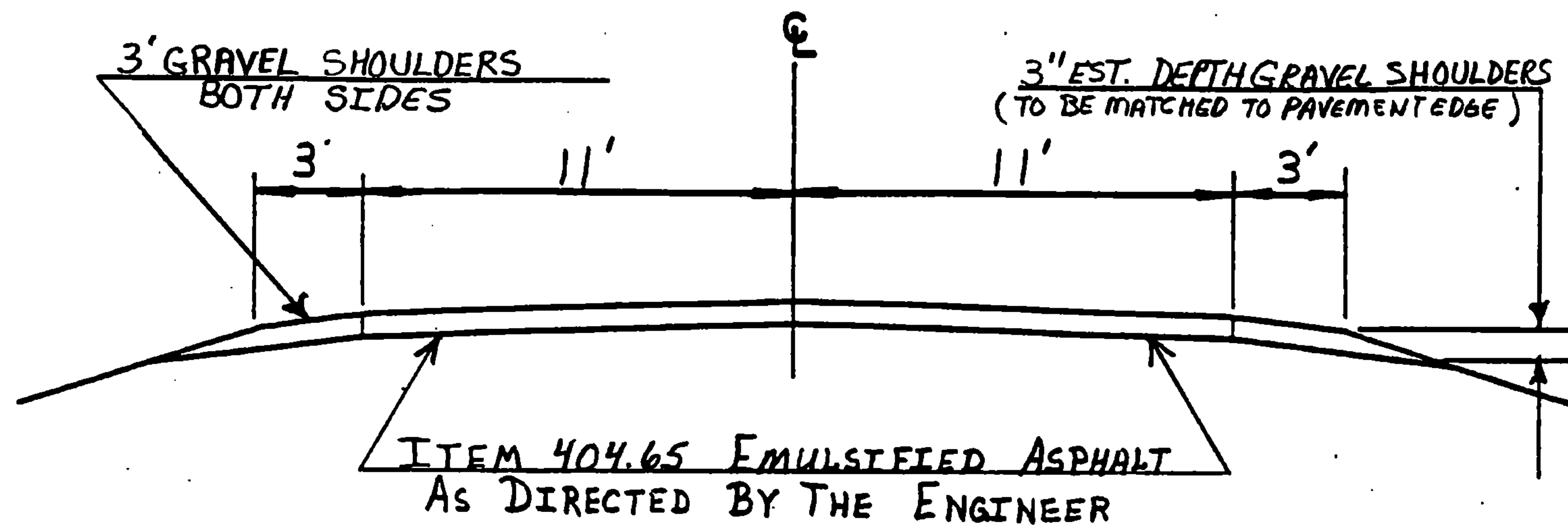
PROJECT ST. ALBANS - SHELDON

NO. HMA 2625

SHEET 33 OF 52 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
AS DIRECTED BY THE ENGINEER



LOCATION	WIDTH	LEVEL T/M	WEARING DEPTH	COURSE TYPE
0.000~1.663 (ST. ALBANS)	22'	250	1.25"	III
1.663 (ST. ALBANS)~1.943 (SWANTON)	22'	300	1.25"	III
1.943 (SWANTON)~0.960 (SHELDON)	22'	250	1.00	IV
7.400~11.030 (SHELDON)	22'	250	1.00	IV

TRAFFIC DATA
1982 ADT 3253
V=50 MPH

PROJECT LENGTHS AND ITEM QUANTITIES															
ITEM DESCRIPTION	OPTION														
	LENGTH	WIDTH	OVERLAY DEPTH	LEVELING COURSE	GRAVEL SHOULDERS	GRAVEL SHOULDERS	EMULSIFIED ASPHALT	BITUMINOUS CONCRETE PAVEMENT	POWER BROOM RENTAL	CHANGE ELEV. OF CB, DI OR MH	UNIFORMED TRAFFIC OFFICERS	FLAGPERSONS	MOBILIZATION	TEMP. PAVT. MKG	WHITE 4"
ITEM NO					402.10	402.11	404.65	406.25	608.30	604.40	630.10	630.15	639.10	646.35	
UNIT	FT.	FT.	IN.	TONS/MI	CY.	TON	CWT	TON	HR	EA.	HR.	HR.	LS	L.F.	
LOCATION															
ST. ALBANS															
MM 0.000~1.663	8781	22	1.25	250	488	854	27	1491						17,562	3' GRAVEL SHOULDERS
								416							Level @ 250 TONS/MI
ST. ALBANS-SWANTON															
MM 1.663~1.943	11663	22	1.25	300	648	1134	36	1981						23,338	3' GRAVEL SHOULDERS
								663							Level @ 300 TONS/MI
SWANTON-SHELDON															
MM 1.943~0.960	15402	22	1.00	250	856	1498	47	2091						30,804	3' GRAVEL SHOULDERS
								729							Level @ 250 TONS/MI
SHELDON															
MM 7.400~11.030	19166	22	1.00	250	1065	1864	58	2602						38,332	3' GRAVEL SHOULDERS
								908							Level @ 250 TONS/MI
PROJECT EST.					30	20	15	110	83	4	545	545	0.85		
ROUNDING					13	5	2	9	2		5	5		14	
TOTAL	55012				3100	5375	175	11000	85	4	550	550	0.85	110050	

PROJECT ST. ALBANS-SHELDON

NO. HMA 2625

SHEET 35 OF 52

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION

LENGTH

WIDTH

TEMP. PAVT. MKG. 4" YELLOW

DURABLE 24" STOP BAR

DURABLE LETTER IN WORD MARKINGS
DURABLE RAILROAD CROSSING
PAVEMENT MARKING SIGNAL

TOPSOIL

TRAFFIC SIGNS- ALUMINUM, TYPE A

TRAFFIC SIGN POSTS, TYPE A

ALL PURPOSE EXCAVATOR RENTAL

ITEM NO			646.36	646.64	646.66	646.67	653.10	675.21	675.35	608.25					
UNIT	FT.	FT.	L.F.	L.F.	EA.	EA.	CY	S.F.	Lbs.						
LOCATION															
ST. ALBANS															
MM 0.000~1.663			26,055	12	13	1									
ST. ALBANS-SWANTON															
MM 1.663~1.943			30,181			1		7.1	24						
SWANTON-SHELDON															
MM 1.943~2.960			36,384			1		7.1	24						
SHELDON															
MM 7.400~11.030			56,626			3		14.2	48						
PROJECT EST.							208			20					
ROUNDING			54	8			2								
TOTAL			149,300	20'	13'	6'	210'	28.4'	96'	20'					

PROJECT ST. ALBANS - SHELDON NO. HMA 2625

SHEET 35A OF 52

TEMPORARY 4" REFLECTORIZED YELLOW LINE

	MILE	MILE	LT	RT	QUANTITY LT	QUANTITY CL	QUANTITY RT	TOTAL
ST. ALBANS	0.00	0.40	Solid	Solid	2112.		2112.	4224.
	0.40	0.52	Solid	Dash	634.		158.	792.
	0.52	0.91	Solid	Solid	2059.		2059.	4118.
	0.91	1.14	Solid	Dash	1214.		304.	1518.
	1.14	1.22	Dash	Dash		106.		106.
	1.22	1.42	Dash	Solid	264.		1056.	1320.
	1.42	1.61	Solid	Solid	1003.		1003.	2006.
	1.61	1.74	Solid	Dash	686.		172.	858.
	1.74	1.79	Solid	Solid	264.		264.	528.
	1.79	1.88	Dash	Solid	119.		475.	594.
1.88	1.93	Dash	Dash		66.		66.	
TOWN - LINE								
SWANTON	0.00	0.12	Solid	Dash	634.		158.	792.
	0.12	0.26	Dash	Solid	185.		739.	924.
	0.26	0.40	Solid	Dash	739.		185.	924.
	0.40	0.51	Dash	Dash		145.		145.
	0.51	0.63	Dash	Solid	158.		634.	792.
	0.63	0.92	Solid	Solid	1531		1531.	3062.
	0.92	0.94	Dash	Solid	26.		106.	132.
	0.94	1.18	Dash	Dash		317.		317.
	1.18	1.34	Dash	Solid	211.		845.	1056.
	1.34	1.92	Solid	Solid	3062.		3062.	6124.
	1.92	2.07	Solid	Dash	792.		198.	990.
	2.07	2.58	Dash	Dash		673.		673.
	2.58	2.71	Dash	Solid	172.		686.	858.
	2.71	2.80	Solid	Solid	475.		475.	950.
	2.80	2.95	Solid	Dash	792.		198.	990.
	2.95	2.96	Dash	Dash		13.		13.
	2.96	3.07	Dash	Solid	145.		581.	726.
	3.07	3.62	Solid	Solid	2904.		2904.	5808.
	3.62	3.87	Solid	Dash	1320.		330.	1650.
	3.87	3.88	Solid	Solid	53.		53.	106.
3.88	3.90	Dash	Solid	26.		106.	132.	
TOWN - Line								
SHELDON	0.00	0.06	Dash	Solid	70.		317.	396.
	0.06	0.09	Solid	Solid	158.		158.	316.
	0.09	0.20	Solid	Dash	581.		145.	726.
	0.20	0.44	Dash	Dash		317.		317.
	0.44	0.56	Solid	Dash	634.		158.	792.
	0.56	0.960	Solid	Solid	2112.		2112.	4224.
								46,065
ASSUME 85% IS LOST DURING SHIMMING								50,065
1858 X 46,065 = 85,220								
50,065 = 92620								
TEMPORARY 4" REFLECTORIZED WHITE LINE								
0.00	1.93	SOLID	SOLID	10,190		10,190	20,380	
0.00	3.90	SOLID	SOLID	20,592		20,592	41,184	
0.00	0.96	SOLID	SOLID	5,069		5,069	10,138	
								Total = 71,702.
ST. ALBANS - SHELDON HMA 2625 SHEET 36 OF 52								

BY JFM DATE 1-6-75
CHKD. BY DATE

SUBJECT DURABLE PAVEMENT
MARKINGS & SIGNS

SHEET NO. OF
JOB NO.

Proj: ST ALBANS - SWANTON - SHELDON VT 105

Item 646.64 - DURABLE 24" STOP BAR - LF

St. Albans M/M 0.00 LT - 12 Ls

Item 646.66 - DURABLE LETTER IN WORD MARKINGS - EA

St. Albans M/M 0.005 LT - STOP - 4 ea

St Albans M/M 0.15 LT - STOP AHEAD 9 ea
TOTAL 13 ea

Item 646.67 - DURABLE RAILROAD CROSSING PAVEMENT MARKING SYMBOL - EA

St Albans M/M 0.36 LT 1 ea

Swanton M/M 1.73 RT 1 ea

Swanton M/M 2.01 LT (Between d-rives) 1 ea

Total 3 ea

Item 675.21 Traffic Signs Type A - SF

Swanton M/M 1.73 RT - RR Advance Sign 7.1 SF

Swanton M/M 2.01 LT - RR Advance Sign 7.1 SF
Total = 14.2 SF

Item 675.35 Traffic Sign Posts, Type A - Lbs SEE STANDARDS
Note! Use 2 Lbs/ft posts for new signs E-2AA, E-45, E-50

Swanton M/M 1.73 RT 12' Post @ 2 Lbs/ft - 24 Lbs

Swanton M/M 2.01 LT 12' Post @ 2 Lbs/ft - 24 Lbs
Total 48 Lbs

Note: Removal of old signs and posts.

Will be Subsidiary TO other items on contract.

Old signs and posts will become property of
STATE to be picked up by district.

ST. ALBANS - SHELDON

HMA 2625

Sheet 37 of 5

TEMPORARY 4" REFLECTORIZED YELLOW LINE

MILE	MILE	LT	RT	QUANTITY LT	QUANTITY R	QUANTITY RT	TOTAL
7.400	8.33	Solid	Solid	4910.		4910.	9820.
8.33	8.49	Solid	Dash	845.		211.	1056.
8.49	8.96	Solid	Solid	2482.		2482.	4963.
8.96	9.08	Dash	Solid	158.		634.	792.
9.08	9.34	Solid	Solid	1373.		1373.	2746.
9.34	9.54	Dash	Solid	264.		1056.	1320.
9.54	9.55	Dash	Dash		13.		13.
9.55	9.66	Solid	Dash	581.		145.	726.
9.66	9.84	Dash	Dash		238.		238.
9.84	9.94	Dash	Solid	132.		528.	660.
9.94	10.20	Solid	Solid	1373.		1373.	2746.
10.20	10.32	Solid	Dash	634.		159.	793.
10.32	10.79	Solid	Solid	2482.		2482.	4964.
10.79	10.86	Solid	Dash	370.		92.	462.
10.86	10.95	Dash	Dash		119.		119.
10.95	11.03	Dash	Solid	106.		422.	528.
ASSUME 75% Q. LOST DURING SHIMMING							31,946
31,786 X 1.75 =				55,626	(2-T.H. 40X2)		-160
							31,786

NEW RR ADVANCE SIGNS & POSTS

Location by M/M	POST TYPE	POST WEIGHT	POST LENGTH	POST WT	SIGN LEGEND	SIGN AREA
9.08 RIGHT	A	246/5T	12'	246lbs	RR ADVANCE SYMBOL	7.1 SF
9.38 LEFT	A	246/5T	12'	246lbs	RR ADVANCE SYMBOL	7.1 SF
TOTALS				486lbs		14.2 SF
SEE STD E-45, E-29A						

NOTE: Removal of old signs to be subsidiary to other items on contract

TEMPORARY 4" REFLECTORIZED WHITE LINE

7.400	11.03	Solid	Solid	19,166.		19,166.	38,332L
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DURABLE SPECIAL PAVEMENT MARKINGS

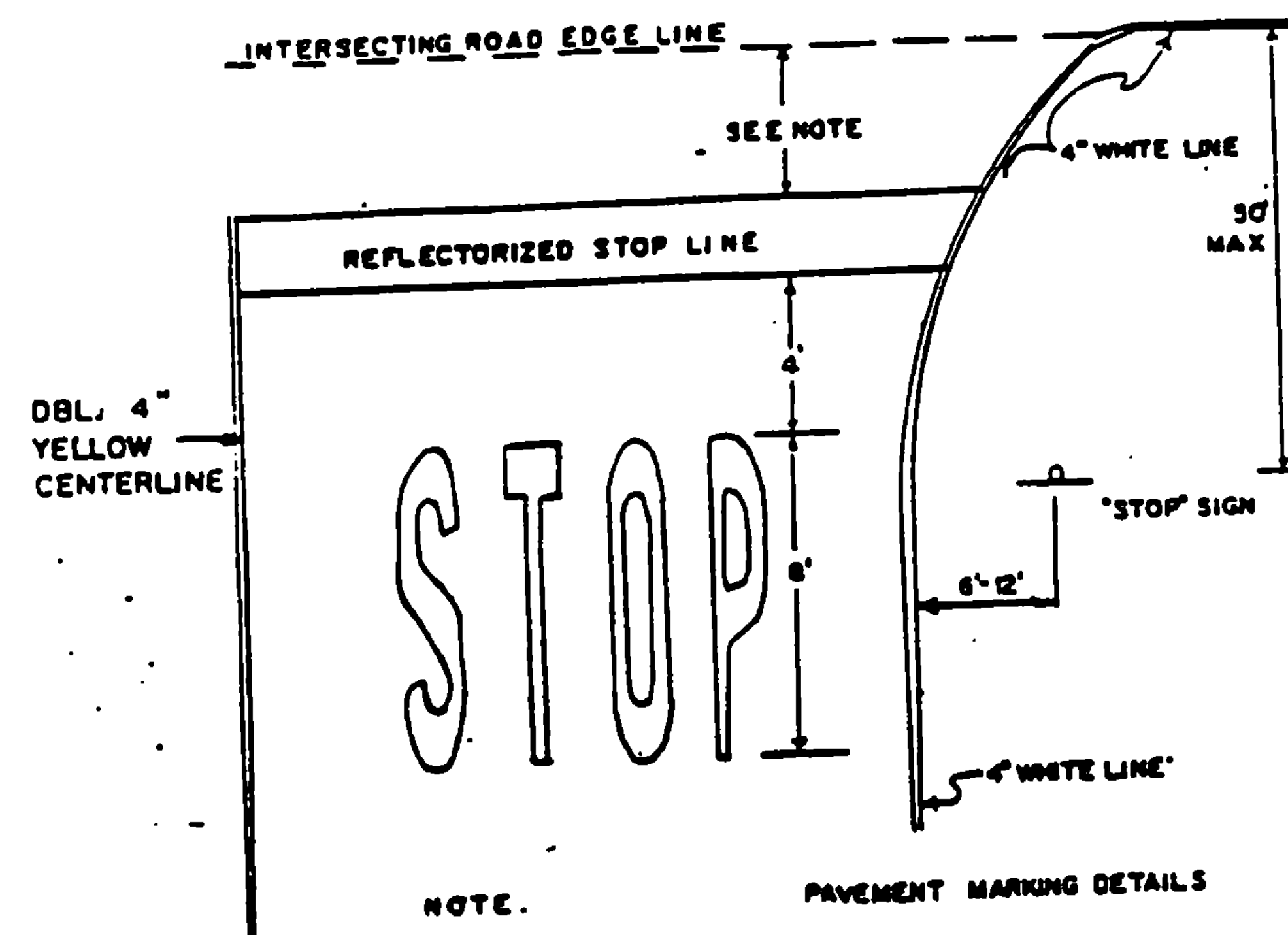
9.08	RT	—	RRSYMBOL	—	—	1ea	1ea
9.38	LT	RRSYMBOL	—	1ea	—	—	1ea
11.025	RT	—	RRSYMBOL	—	—	1ea	1ea
TOTAL - RRSYMBOLS - 3ea							

ST. ALBANS - SHELDON

HMA 2.625

STOP BAR DETAILS

13.



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

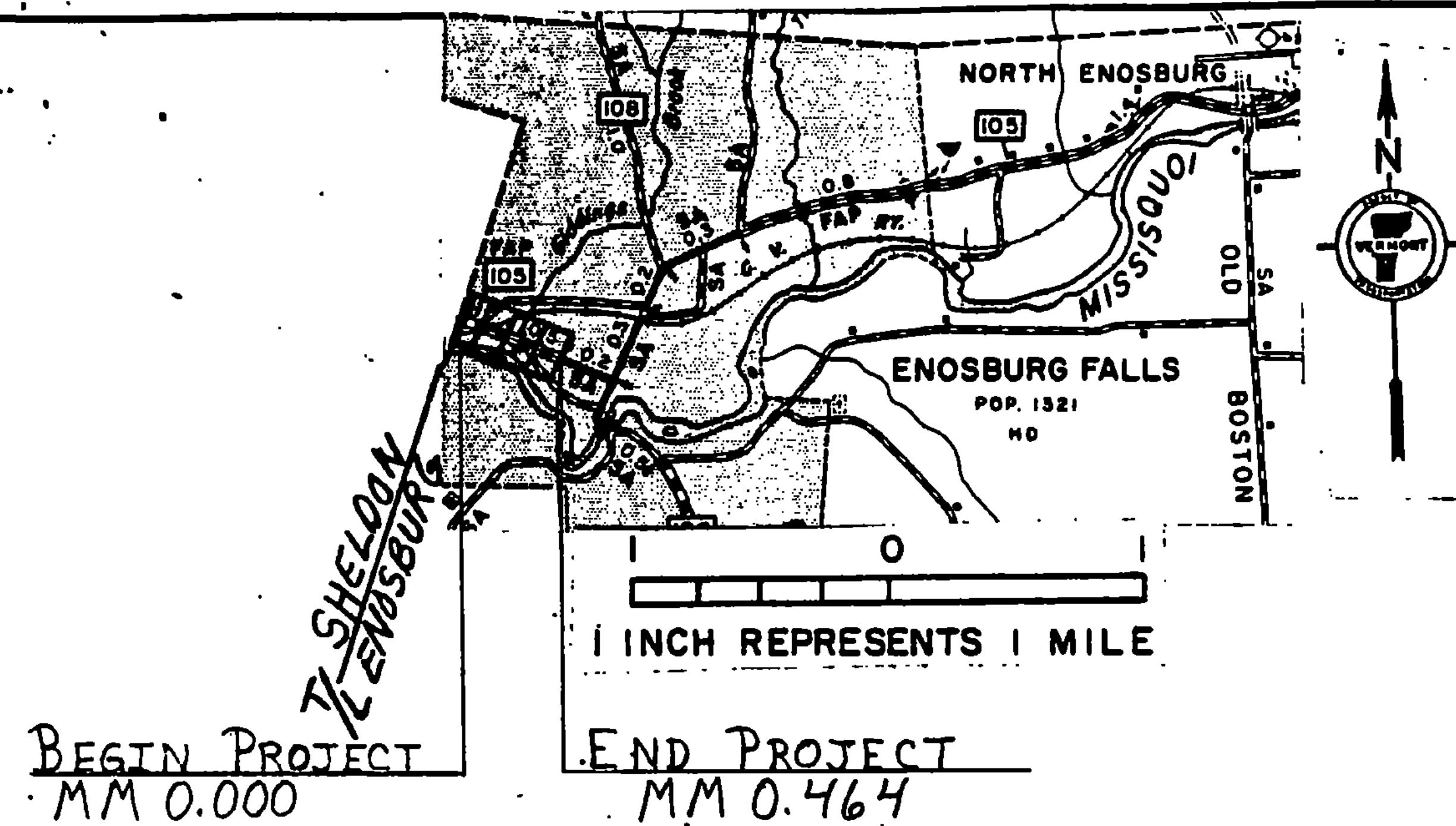
NOTE:
SEE STANDARD E-50
FOR LETTERING DETAIL.

STOP

STOP AHEAD SIGN

ST. ALBANS-SHELDON
HMA 2625
SHEET 39 OF 52

PROJECT DESCRIPTION AND LOCATION



BEGINNING AT A POINT ON VT. RTE. 105 ON THE SHELDON-ENOSBURG TOWN LINE, MM 0.000, AND PROCEEDING EASTERLY A DISTANCE OF 0.4 MILES TO MM 0.464 (THE JCT. OF PEARL ST. AND VT. RTE. 105).

TRAFFIC DATA
1982 AADT 2970
V=35 MPH

LENGTH OF PROJECT
0.464 MILES
2450 FEET

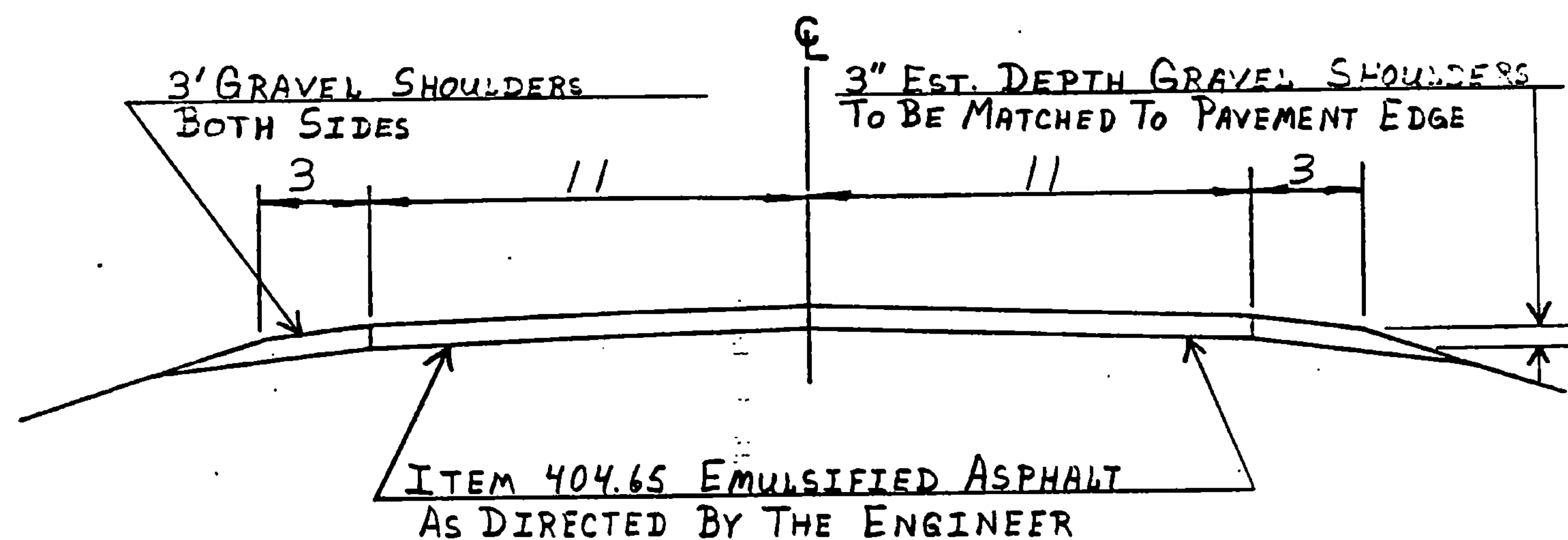
PROJECT ENOSBURG

NO. F 034-1(18)S

SHEET 40 OF 52 SHEETS

TYPICAL SECTIONS & DESIGN DATA

ITEM 406.25 BITUMINOUS CONCRETE PAVEMENT
 LEVELING COURSE, TYPE III OR IV (22' WIDE @ 250 TONS/MI.)
 AS DIRECTED BY THE ENGINEER
 1" WEARING COURSE, TYPE III



ENOSBURG MM 0.000 ~ 0.464

PROJECT LENGTHS AND ITEM QUANTITIES

[illegible]

PROJECT ENOSBURG

NUMBER F034-1(18)S SHEET 42 OF 52

PROJECT LENGTHS AND ITEM QUANTITIES

ITEM DESCRIPTION	LENGTH		WIDTH	DURABLE RAILROAD CROSSING PAVEMENT MARKING SYMBOL		TOPSOIL							
	ITEM NO			646.67	653.10								
UNIT	FT.	FT.		EA	C.Y.								
LOCATION													
MM 0.09													
MM 0.105													
MM 0.25				1									
PROJECT					9								
ROUNDING					1								
TOTAL				1	10								

PROJECT ENOSBURG

NO. F 034-1(18)S

SHEET 42A OF 52

PROJECT: ENOSBURG

ROUTE VT 105

PROJECT NUMBER

TEMPORARY 4" REFLECTORIZED YELLOW LINE

[illegible]

TEMPORARY 4" REFLECTORIZED WHITE LINE

[illegible]

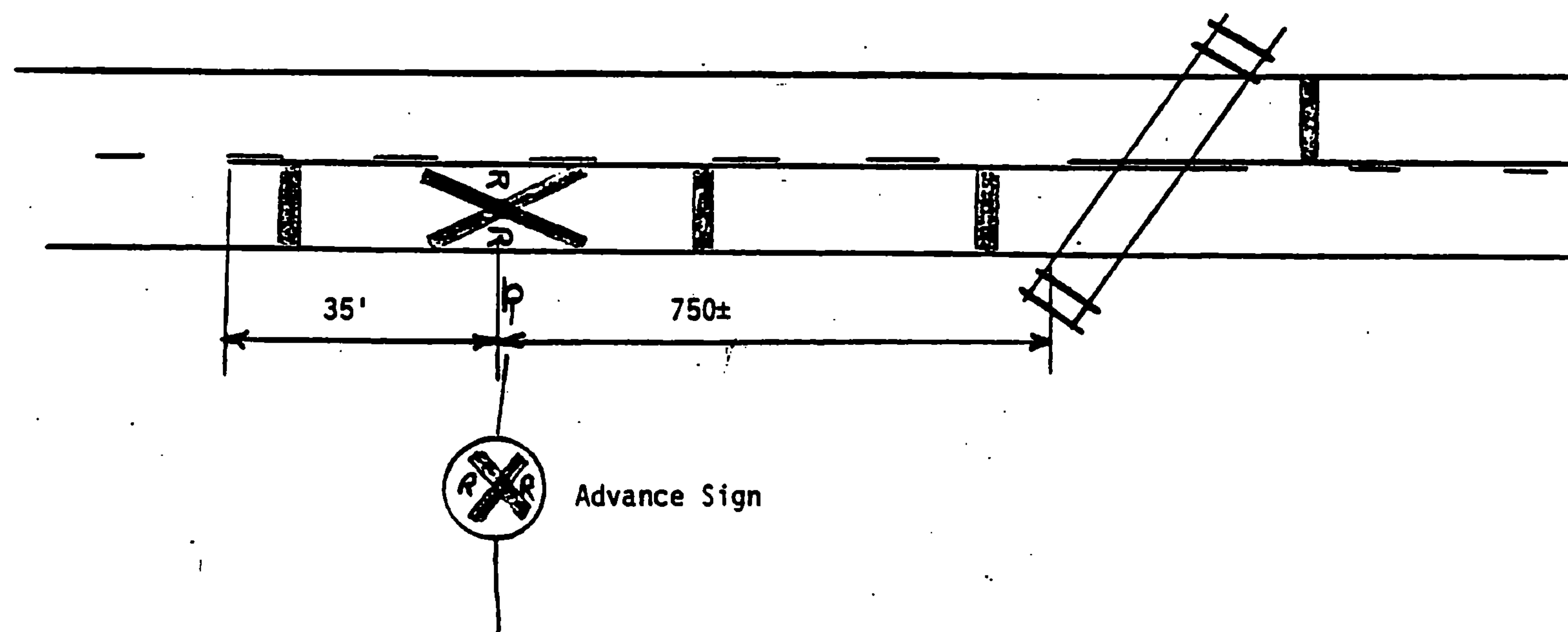
F034-1(18)S

ENOSBURG

SHEET 43 OF 52

APPROACH TO A RAILROAD GRADE CROSSING

A solid line in the direction of travel is begun at a location 35 feet in advance of the advance warning sign. This sign is normally 750 feet or more in advance of the crossing. Consult the MUTCD for actual sign placement. (Centerline marking other than that shown by dimension lines are for example only).



ENOSBURG
F 034-1(18)S
SHEET 44 OF 52