

STATE OF VERMONT
AGENCY OF TRANSPORTATION



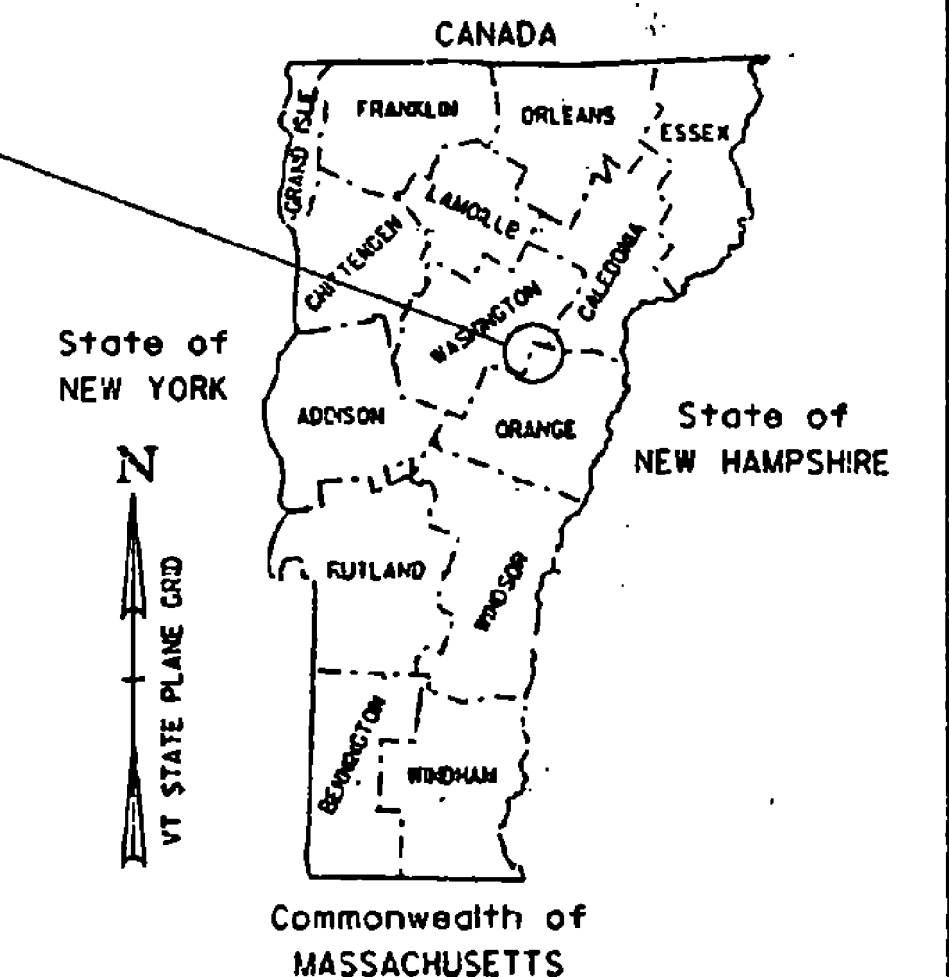
PROPOSED IMPROVEMENT
COUNTIES OF WASHINGTON, ORANGE
TOWNS OF NORTHFIELD, BERLIN & WILLIAMSTOWN

INDEX OF SHEETS
SEE SHEET 2

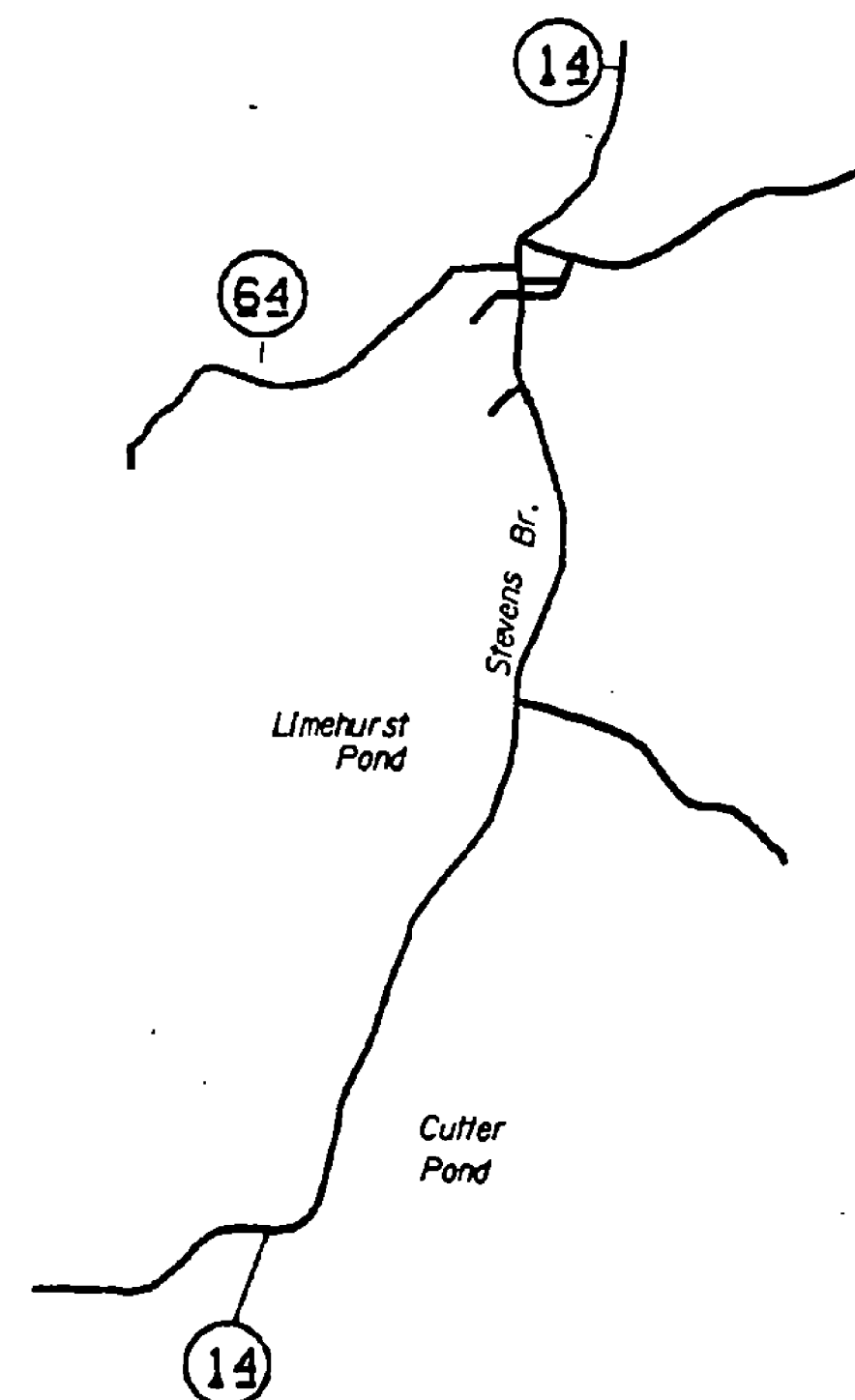
CONTRACT PLANS

THESE PLANS DO NOT REFLECT
CHANGES MADE ON THE PROJECT.

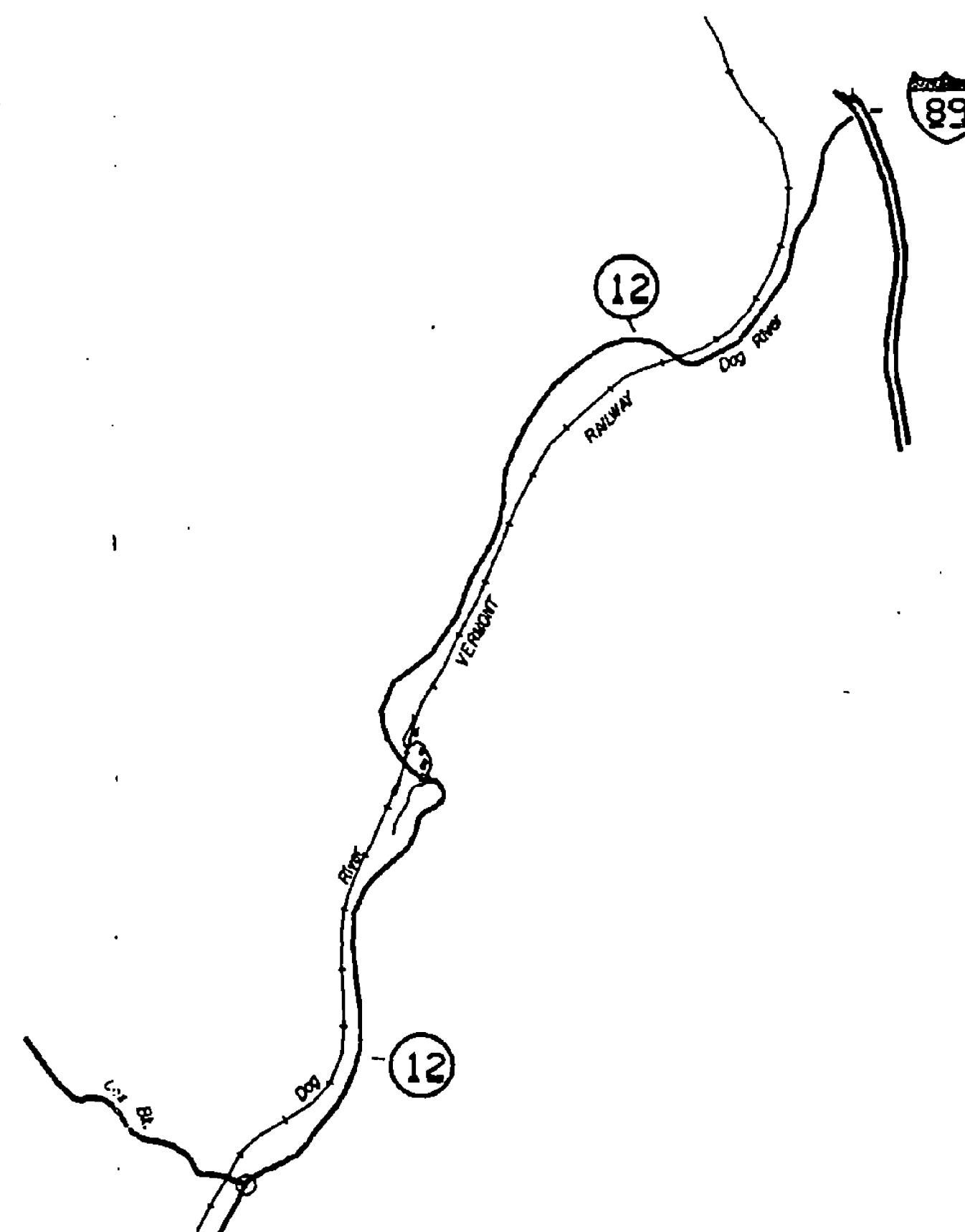
WILLIAMSTOWN STP 9454
NORTHFIELD-BERLIN STP 9467



WILLIAMSTOWN
STP SIGN 9454
VT. ROUTE 14
SEE SHEET 4



NORTHFIELD-BERLIN
STP SIGN 9467
VT. ROUTE 12
SEE SHEET 19



Date JAN 16 1997
Safe Marking Corp
President
Secretary of Transportation's Signature

Date _____
Signature _____
Title _____
Transp. _____
Secretary of Transportation's Signature _____

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---o---
POINT OF ACCESS	---X---
FENCE LINE	---x---
STONE WALL	---o---o---
TRAVELED WAY	---o---o---
GUARD RAIL	---o---o---
RAILROAD	---o---o---
SURVEY LINE	---o---o---
CULVERT	---o---o---
POWER POLE	---o---
TELEPHONE POLE	---o---
TREES	---o---
CONTROL OF ACCESS	---o---
PROPERTY LINE	---o---
R.O.W. TAKING LINE	---o---
SLOPE RIGHTS	---o---
TOP OF CUT	---o---
TOE OF SLOPE	---o---

DATUM
VERTICAL _____
HORIZONTAL _____

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING
CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY
ADMINISTRATION OR THE DIRECTOR OF CONSTRUCTION
AND MAINTENANCE.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE
WITH THESE PLANS AND THE STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED 1990, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.

/pave/94k012/pk012.dgn pk012ct.i

25-JUL-1996

APPROVED <u>John D. McArthur</u>	DATE <u>7/25/96</u>
DIRECTOR OF CONSTRUCTION AND MAINTENANCE	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED _____	DATE _____
DIVISION ADMINISTRATOR	
PROJECT DISTRICT 6 STPG SIGN 604	
SHEET 1 OF 57	SHEETS

INDEX OF SHEETS

1	COMPOSITE TITLE SHEET
2	COMPOSITE INDEX SHEET
3	COMPOSITE QUANTITY SHEET
3A	SQUARE STEEL SIGN POST DETAIL SHEET

WILLIAMSTOWN STP 9454

4	TITLE SHEET
5	QUANTITY SHEET
6-8	EXISTING SIGN SHEETS
9-10	NEW SIGN SHEETS
12-15	TRAFFIC SIGN SUMMARY SHEETS
16	BLANK
17	SIGN DETAIL SHEET
18	CONSTRUCTION APPROACH SIGNING SHEET

NORTHFIELD-BERLIN STP 9467

19	TITLE SHEET
20	QUANTITY SHEET
21-27	EXISTING SIGN SHEET
28-34	NEW SIGN SHEETS
35-51	TRAFFIC SIGN SUMMARY SHEETS
52	INTERSECTION DETAIL SHEET
53-56	SIGN DETAIL SHEETS
57	CONSTRUCTION APPROACH SIGNING

C-1	GRANITE SLOPE EDGING	06-01-94
D-1	REINFORCED CONCRETE PIPE D: 1. W/CAST IRON GRATE	06-01-94
E-10	APPROACH SIGNS, MINOR MAINTENANCE	08-08-95
E-10A	APPROACH SIGNS, TYPICAL MOVING	08-08-95
E-100	CONSTRUCTION APPROACH SIGNS	08-08-95
E-101	CONSTRUCTION SIGN DETAILS	08-08-95
E-102	CONSTRUCTION SIGN DETAILS	08-08-95
E-106	TRAFFIC CONTROL - MISCELLANEOUS DETAILS	08-08-95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08-08-95
E-120	STANDARD SIGN PLACEMENT - EXPRESSWAY & FREEWAY	08-08-95
E-121	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD	08-08-95
E-124	TOWN LINE SIGNS	08-08-95
E-128B	DETAILING VILLAGE SIGNS	08-08-95
E-134	BRIDGE NUMBER PLAQUE	08-08-95
E-136B	STATE ROUTE MARKERS	08-08-95
E-138	MILEMARKER DETAILS STATE & TOWN HIGHWAYS	08-08-95
E-140	REGULATORY SIGN DETAILS	09-20-95
E-141	REGULATORY SIGN DETAILS	09-20-95
E-142	REGULATORY SIGN DETAILS	09-20-95
E-143	REGULATORY SIGN DETAILS	09-20-95
E-150	WARNING SIGN DETAILS	08-08-95
E-151	WARNING SIGN DETAILS	08-08-95
E-152	WARNING SIGN DETAILS	08-08-95
E-160	FLANGED CHANNEL STEEL SIGN POST	08-18-95
E-190	RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS	08-18-95

DATUM
VERTICAL _____
HORIZONTAL _____

SURVEYED BY	_____	DATE	_____
DRAWN BY	_____	DATE	_____
SQUAD LEADER	_____		
DESIGN FILE NO.	/pave/94k012/pk012.dgn		
FILE	pk012m.l	DATE PLOTTED	25-JUL-1996
PROJ. NAME	DISTRICT 6		
PROJ. NO.	STPG SIGN 604		
SHEET	2	OF	57 SHEETS

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

APPROXIMATE SUMMARY OF QUANTITIES											
	R.O.W.				STP 9454	STP 9467	QUANTITIES GRAND TOTAL	UNIT	ITEMS	ITEM NO.	ROUNDING
					1	1	2	EA	THINNING & TRIMMING (MOD.)	201.31	EST
						1	1	CY	TRENCH EXCAVATION OF EARTH (N.A.B.I.)	204.20	-
						1	1	EA	PRC PIPE DROP INLET W/CAST IRON GRATE	604.30	-
						1	1	EA	CAPPING EXISTING DROP INLETS	604.60	-
						4	4	HR	POWER BROOM RENTAL	608.30	-
						4	4	HR	TRUCK RENTAL	608.37	-
						4	4	HR	LOADER RENTAL, TYPE 1	608.40	-
						40	40	LF	GRANITE SLOPE EDGING	616.20	-
						2	2	TON	BIT. CONC. GUTTERS & TRAFFIC ISLANDS	616.47	-
					16	16	32	HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST
					48	176	224	HR	FLAGGERS	630.15	EST
					0.50	0.50	1	LS	MOBILIZATION	635.10	-
						110	110	LF	PAINTED CURB	646.27	-
					185	885	1070	SF	TRAFFIC SIGNS, TYPE A	675.20	-
									BEGIN OPTION ITEMS		
					1486	7351	8837	LB	FLANGED CHANNEL SIGN POST	675.30	-
					1486	7351	8837	LB	SQUARE TUBE STEEL POST AND ANCHORS	675.34	-
									END OPTION ITEMS		
					79	243	322	EA	REMOVING SIGNS	675.50	-
					7	15	22	EA	ERECTING SALVAGED SIGNS	675.60	-
											</

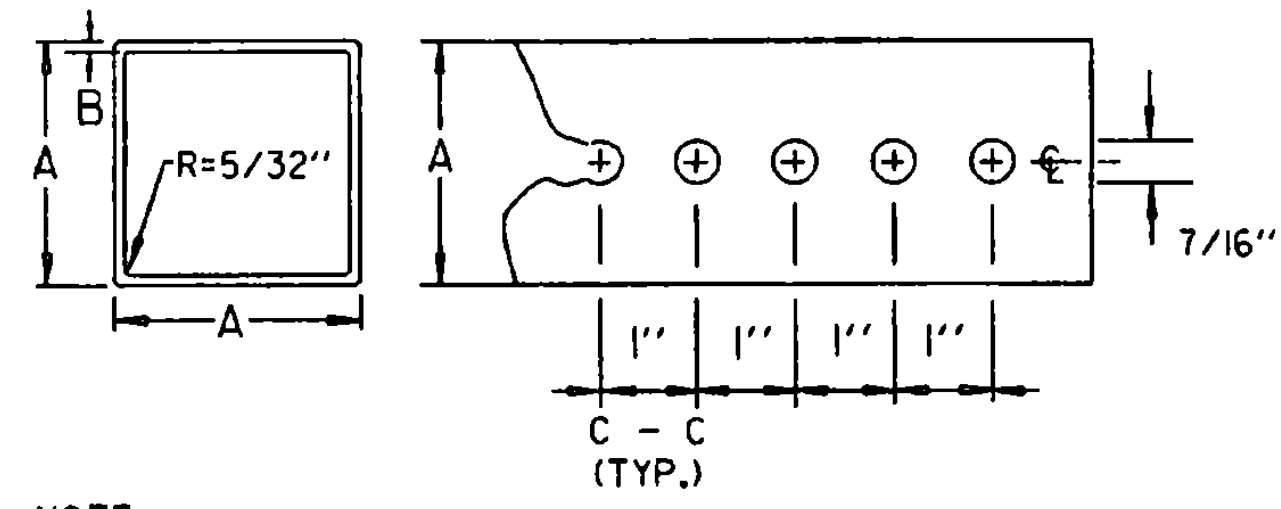
[illegible][illegible]

REVISED 10/31/96 PLD

[illegible]

GUARDRAIL DEFLECTION CHART (PER AASHTO - ROADSIDE DESIGN GUIDE - 1988)		
TYPE	GR POST SPACING	DEFLECTION
THREE CABLE W/STEEL POSTS	16' - 0"	12'
W/WOODEN POSTS	12' - 6"	12'
W-BEAM		
W/WEAK POST	12' - 6"	7'
W/STRONG POST	6' - 3"	3'
BOX BEAM	6' - 0"	5'
THRIE BEAM		
W/WEAK POST	12' - 6"	4'
W/STRONG POST	6' - 3"	2'
LONG-SPAN NESTED W-BEAM		
GUARDRAIL W/STEEL POSTS	12' - 6" 18' - 9"	3.1' 3.2'

THIS CHART LISTS THE THEORETICAL DEFLECTION DISTANCE UPON IMPACT OF VARIOUS GUARDRAIL WITH DIFFERENT TYPES AND SPACING OF POSTS.



NOTE :

THE POSTS SHALL BE CAREFULLY FORMED OF STEEL WITH A MINIMUM YIELD OF 55,000 PSI, INTO A SIZE AND SHAPE WITH CORNERS INDUCTION WELDED IN SUCH A MANNER THAT NEITHER FLASH NOR WELD SHALL INTERFERE WITH THE TELESCOPING PROPERTIES, NOR DAMAGE THE GALVANIZING.

• THE WALL THICKNESS TOLERANCES SHALL BE +.005 AND -.010 FOR THE 12 GAUGE.

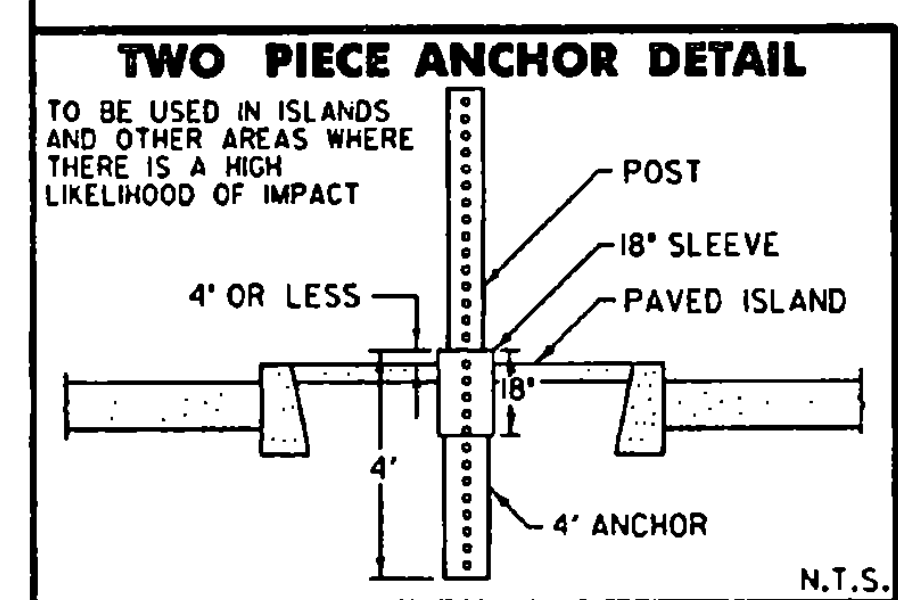
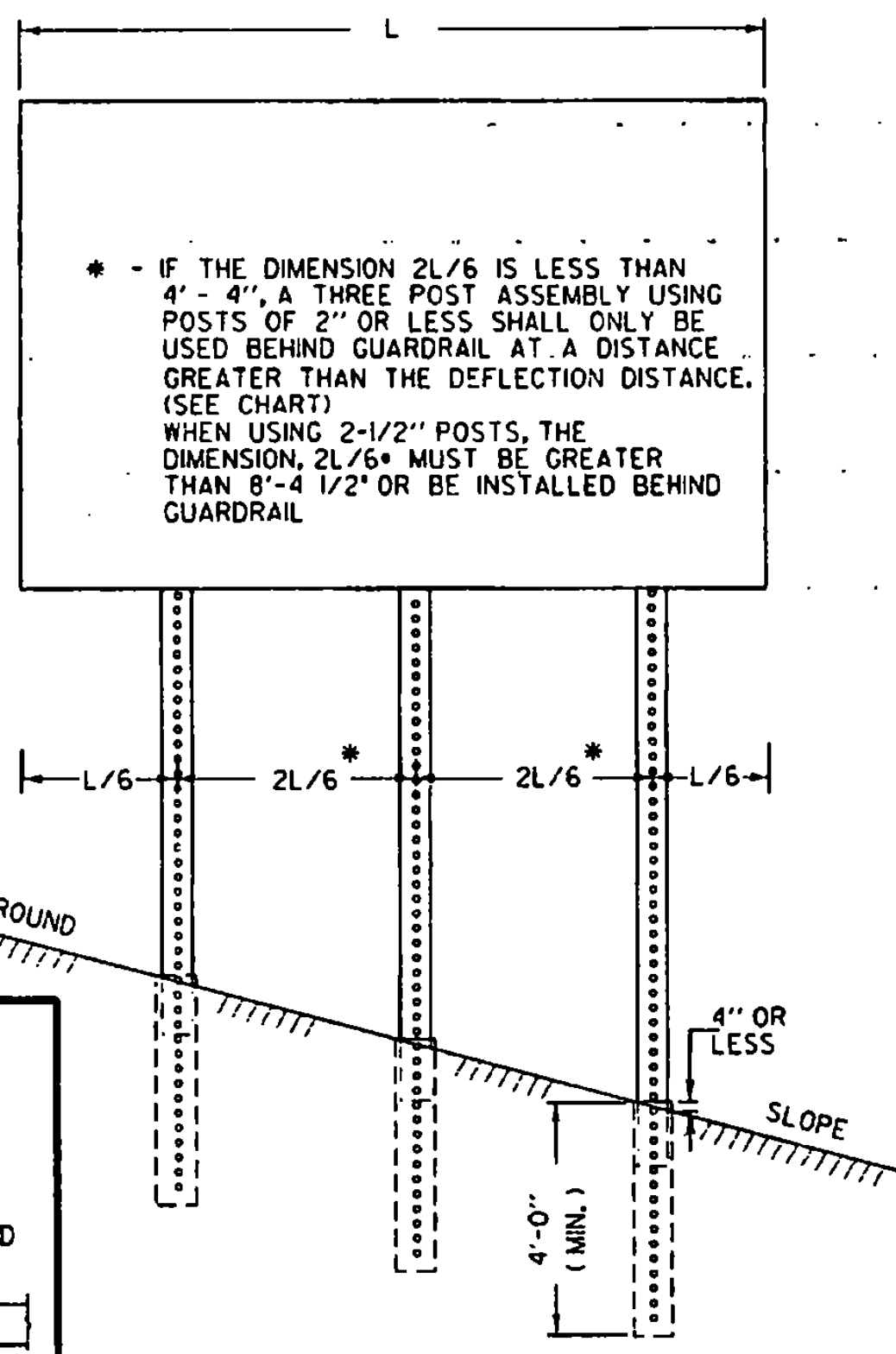
DIMENSION DETAILS AND POST SELECTION CHART

POST SELECTION CHART							
SIGN AREA (FT ²) X H (FT) ≤ SV (SELECTION VALUE)							
POST SIZE	DIMENSIONS			SECTION MODULUS IN ³	ONE POST Sv	TWO POST Sv	THREE POST Sv
LBS/FT.	A	B	GAUGE				NUMBER PERMITTED IN 8' PATH
2.30	1-3/4"	.105	12	0.265	73	146	219
2.65	2"	.105	12	0.372	102	204	306
3.35	2-1/2"	.105	12	0.642	177	354	531

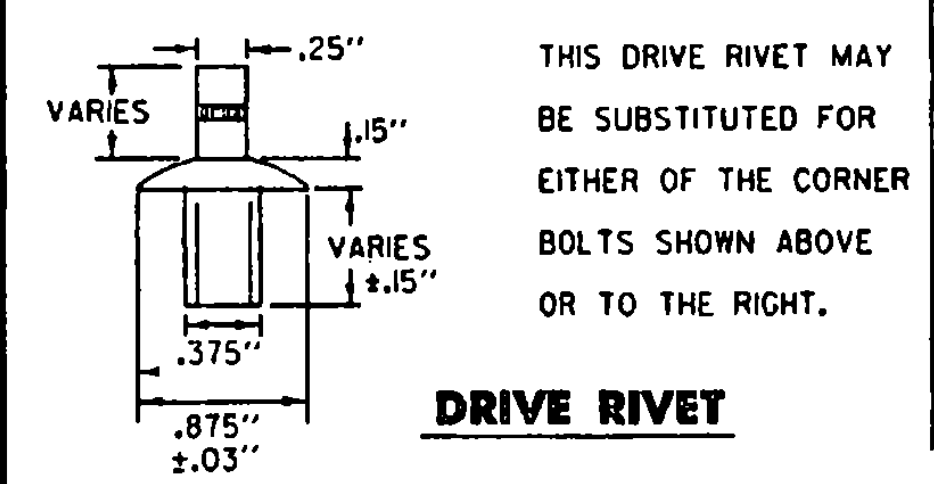
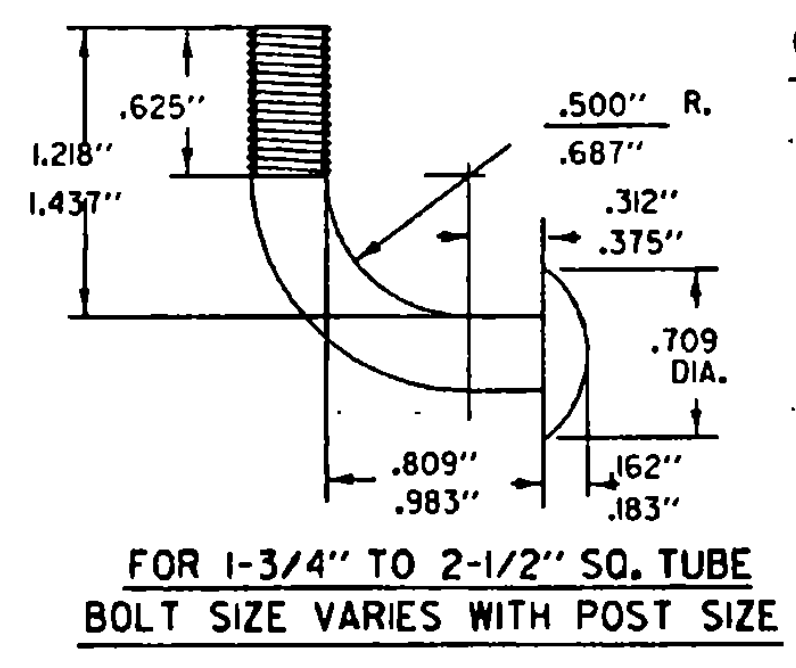
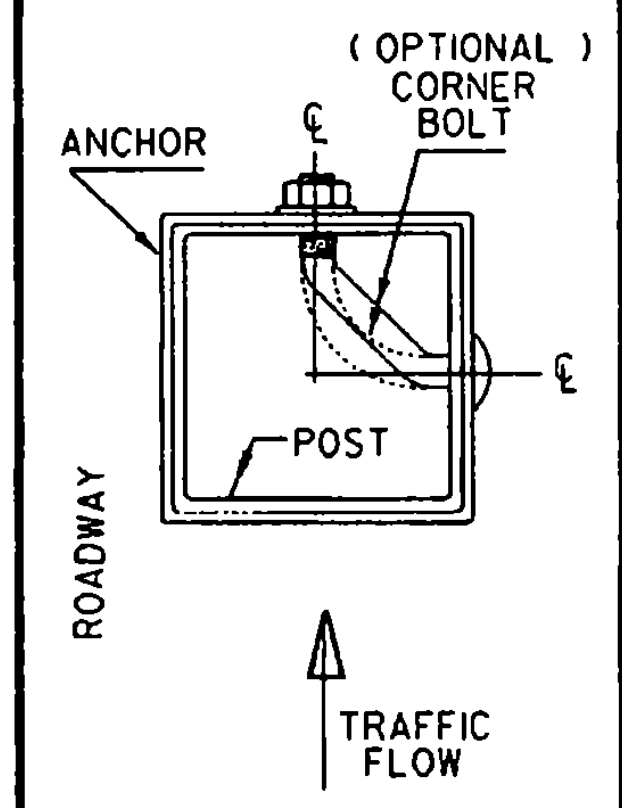
DESIGN CRITERIA:

WIND SPEED = 60 MPH (10 -YEAR MEAN RECURRENCE INTERVAL)
WIND PRESSURE = 14 PSF
STEEL MINIMUM YIELD = 55,000 PSI
ALLOWABLE STRESS = (1.4) 0.60 FY

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

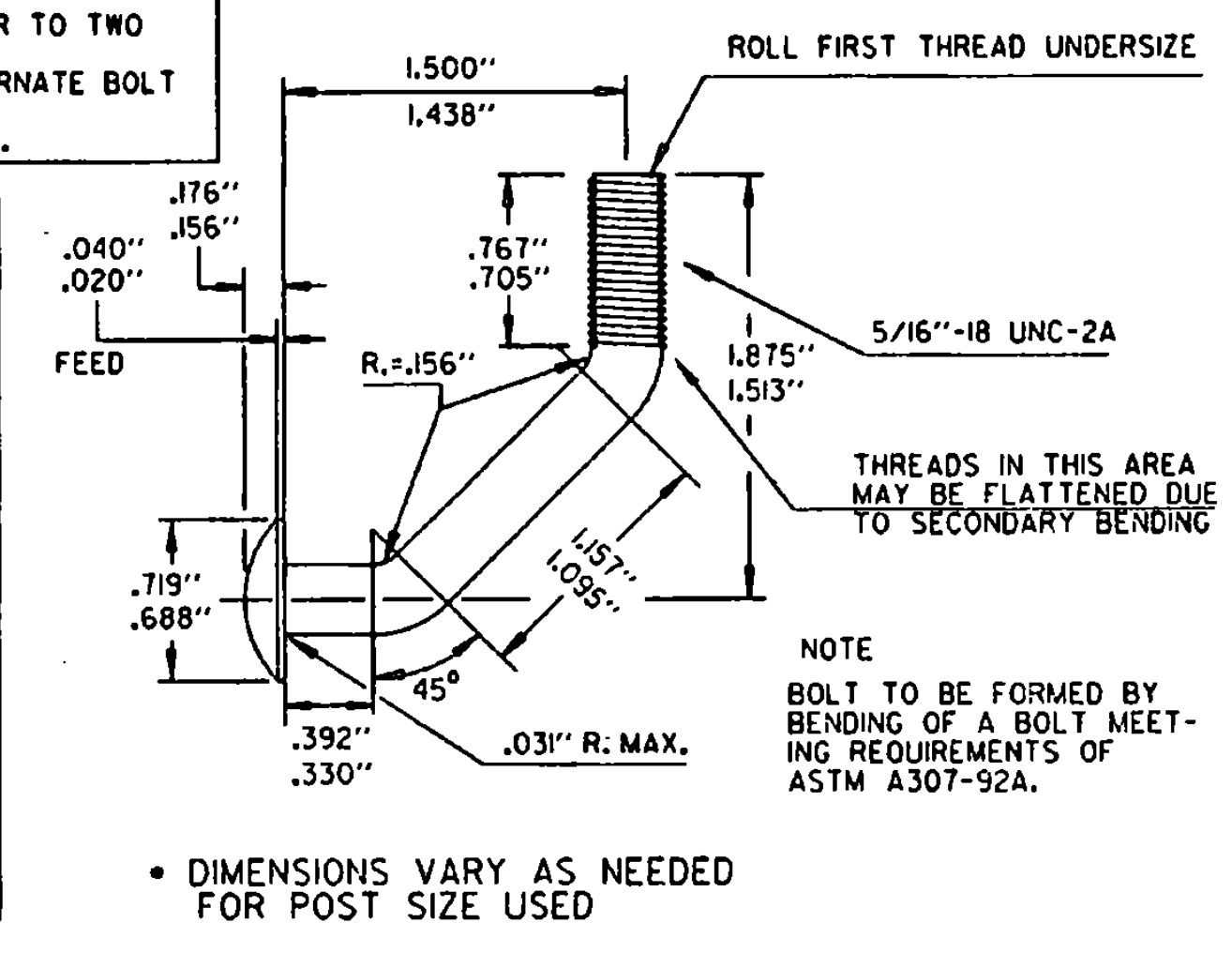


TOP VIEW OF ANCHOR, POST AND BOLT

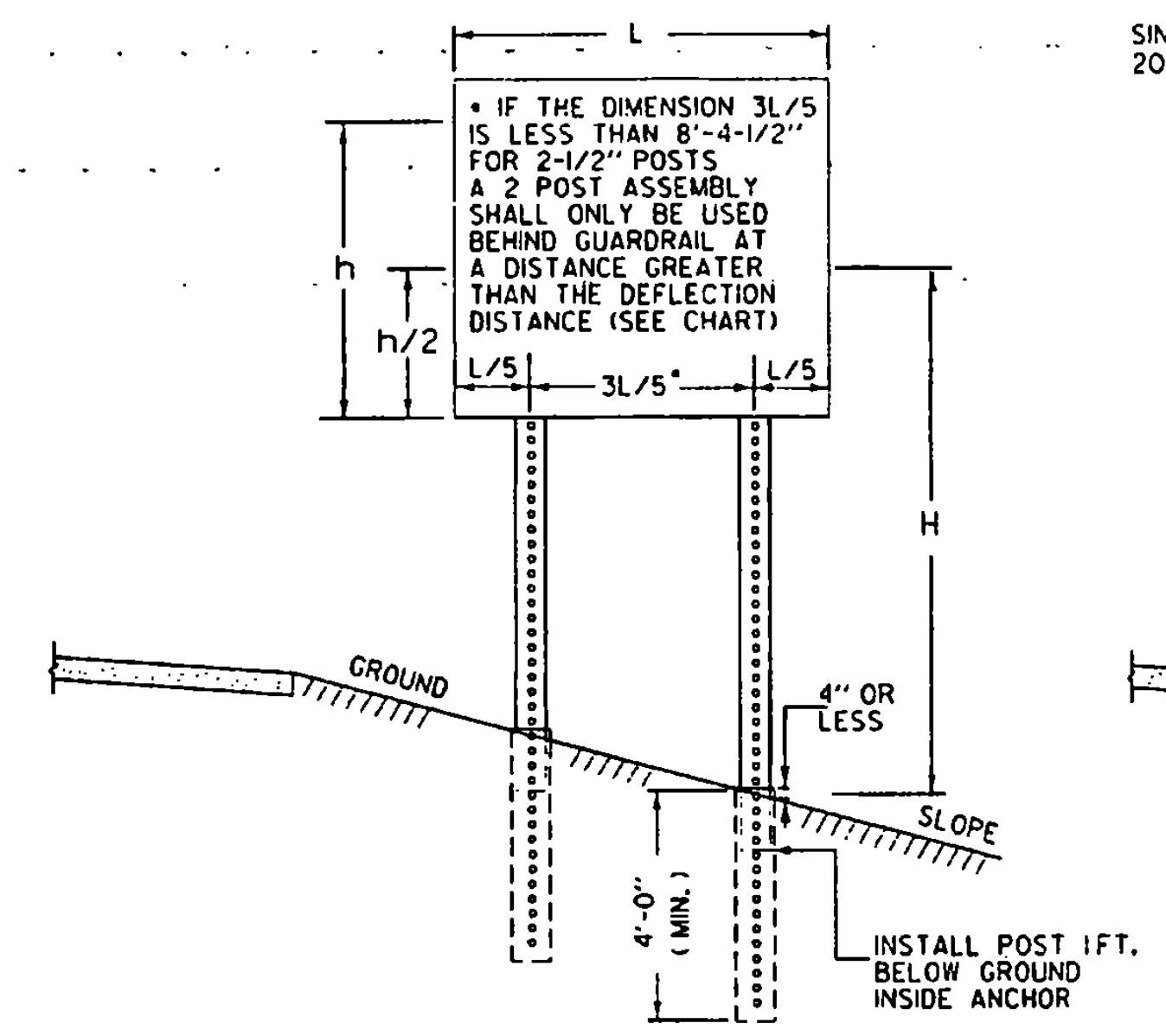


OPTIONAL CORNER BOLT DETAILS

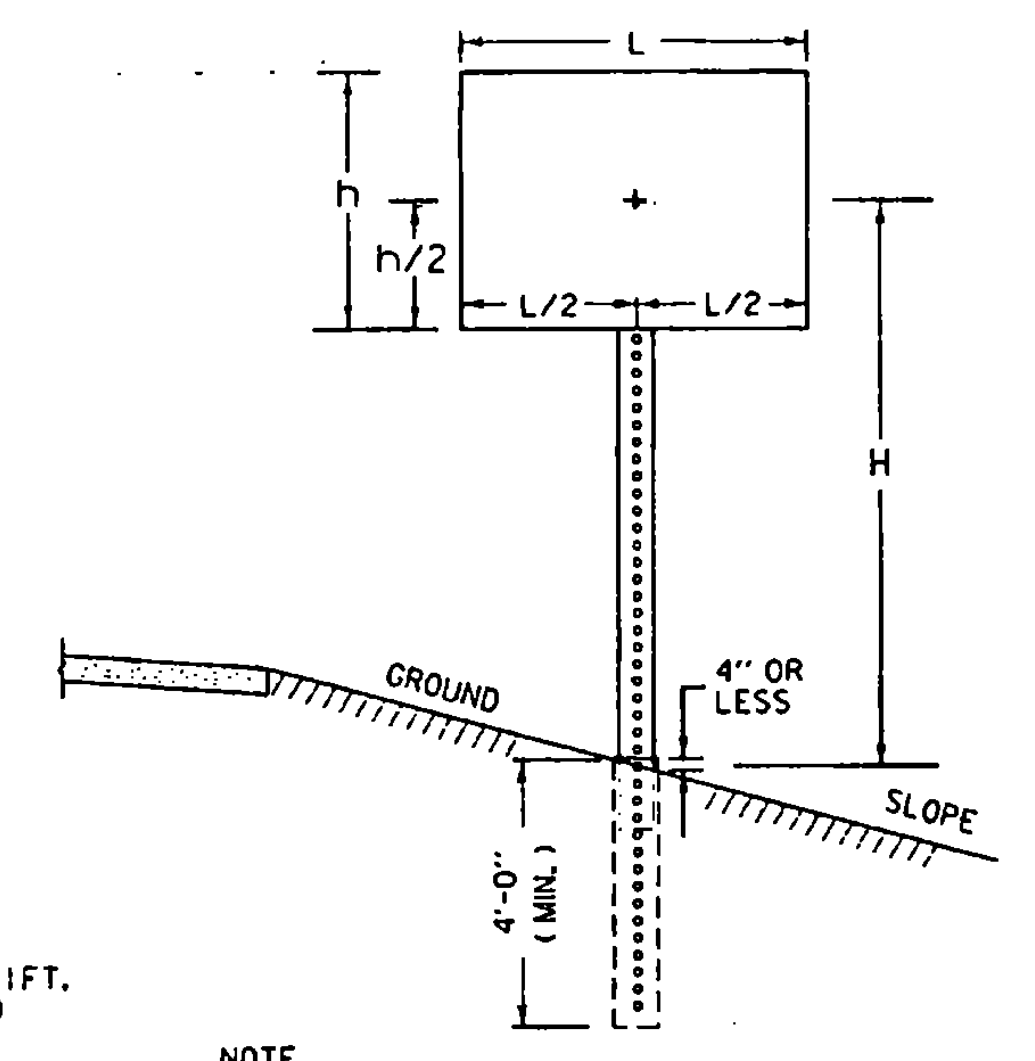
DOUBLE DIMENSIONS REFER TO TWO ALTERNATE BOLT SIZES.



MULTI-POST INSTALLATIONS



POST SPACING DETAILS



NOTE

WHEN USING SQUARE STEEL POSTS ON STEEP SLOPES (1:1 OR STEEPER) ADD ONE FOOT EMBEDMENT FOR GREATER STABILITY.

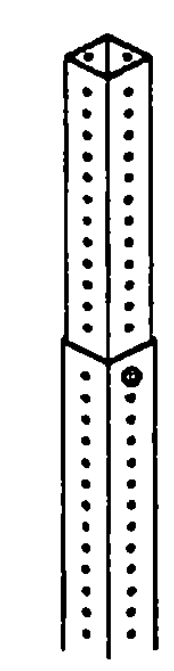
GENERAL NOTES

CONSTRUCTION METHODS - POSTS MAY BE DRIVEN OR SET IN A DUG HOLE AND BACKFILLED. IF DRIVEN, A DRIVING CAP SHALL BE USED. THE DUG HOLE INSTALLATION SHALL BE USED IN AREAS OF POOR SOIL CONDITIONS OR AS DIRECTED BY THE RESIDENT ENGINEER. BACKFILL SHALL BE COMPACTED AS DIRECTED BY THE RESIDENT ENGINEER.

SIGN CLEARANCES - HORIZONTAL AND VERTICAL SIGN CLEARANCES SHALL BE SHOWN ON THE PLANS OR THE APPROPRIATE STD. SHEETS.

SINGLE POST INSTALLATIONS SHALL BE LIMITED TO A SIGN AREA OF 20 SQ. FT. OR LESS

CONNECTION DETAIL



POST IS TO BE INSERTED INTO ANCHOR ONE FOOT BELOW GROUND LEVEL. ANCHOR IS TO BE 4'-0" MINIMUM LENGTH WITH NO MORE THAN 4" ABOVE GROUND. ANCHOR IS ONE SIZE (1/4") GREATER THAN THE POST AND ALL ANCHORS ARE TO BE 12 GAGE EXCEPT ANCHORS FOR 2-1/2" POSTS ARE TO BE 7 GAGE. CONNECTION IS TO BE MADE USING THE BOLT PROVIDED WITH THE SIGN SYSTEM (SEE DETAILS LEFT). AT THE TOP HOLE IN THE ANCHOR (APPROXIMATELY 3-1/2" ABOVE GROUND), THREE INCH ANCHORS WHICH DO NOT HAVE HOLES ON 1" CENTERS WILL REQUIRE DRILLING OF 7/16" HOLES FOR CONNECTIONS.

(SEE DETAIL LEFT FOR BOLT PLACEMENT)

SQUARE STEEL SIGN POST DETAIL SHEET

SURVEYED BY	DATE
DRAWN BY	DATE
SQUAD LEADER	
DESIGN FILE NO.	
IPARM FILE	DATE PLOTTED
PROJ. NAME	DISTRICT 6
PROJ. NO.	STPG-SIGN (604)
SHEET	3A OF 57 SHEETS

NUMBER	TITLE	DATE
E-10	TYPICAL MINOR MAINTENANCE APPROACH SIGNS	08/08/95
E-10A	TYPICAL MOVING MAINTENANCE OPERATION	08/08/95
E-100	CONSTRUCTION APPROACH SIGNS	08/08/95
E-101	CONSTRUCTION SIGN DETAILS	08/08/95
E-102	CONSTRUCTION SIGN DETAILS	08/08/95
E-108	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08/08/95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08/08/95
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08/08/95
E-128B	VILLAGE SIGNS N-W	08/08/95
E-134	BRIDGE NUMBER PLAQUE	08/08/95
E-138B	STATE ROUTE MARKER SIGN DETAILS	08/08/95
E-138	MILE MARKER DETAILS STATE AND TOWN HIGHWAYS	08/08/95
E-141	REGULATORY SIGN DETAILS	09/20/95
E-142	REGULATORY SIGN DETAILS	09/20/95
E-143	REGULATORY SIGN DETAILS	09/20/95
E-150	WARNING SIGN DETAILS	08/08/95
E-151	WARNING SIGN DETAILS	08/08/95
E-152	WARNING SIGN DETAILS	08/08/95
E-160	FLANGED CHANNEL STEEL SIGN POST	08/10/95
# C-1	GRANITE SLOPE EDGING	06/01/94
# D-1	REINFORCED CONCRETE PIPE D.I. W/CAST IRON GRATE	06/01/94
# E-120	STANDARD SIGN PLACEMENT EXPRESSWAY & FREEWAY	08/08/95
# E-124	TOWN LINE SIGNS	08/10/95
# E-140	REGULATORY SIGN DETAILS	09/20/95
# E-190	RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS	08/18/95

OUT OF ORDER

INDEX TO SHEETS	
SHEET TITLE	SHEET NO.
TITLE	1
QUANTITY	2
EXISTING SIGNS	3 - 5
NEW SIGNS	6 - 8
TRAFFIC SIGN SUMMARY	9 - 12
SIGN DETAILS	14
CONSTRUCTION APPROACH SIGNING	15

CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	---
LASTS OF ACCESS	---
POINT OF ACCESS	---
FENCE LINE	---
STONE WALL	---
TRAVELED WAY	---
GUARD RAIL	---
RAILROAD	---
SURVEY LINE	---
CULVERT	---
POWER POLE	---
TELEPHONE POLE	---
TREE	---
CONTROL OF ACCESS	---
PROPERTY LINE	---
P.O.M. TAPPING LINE	---
SLOPE SIGNS	---
TOP OF CUT	---
TOE OF SLOPE	---

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

UNLESS OTHERWISE INDICATED, THE DRAWINGS AND DETAILS OF THESE PLANS ARE NOT TO SCALE.

STATE OF VERMONT AGENCY OF TRANSPORTATION

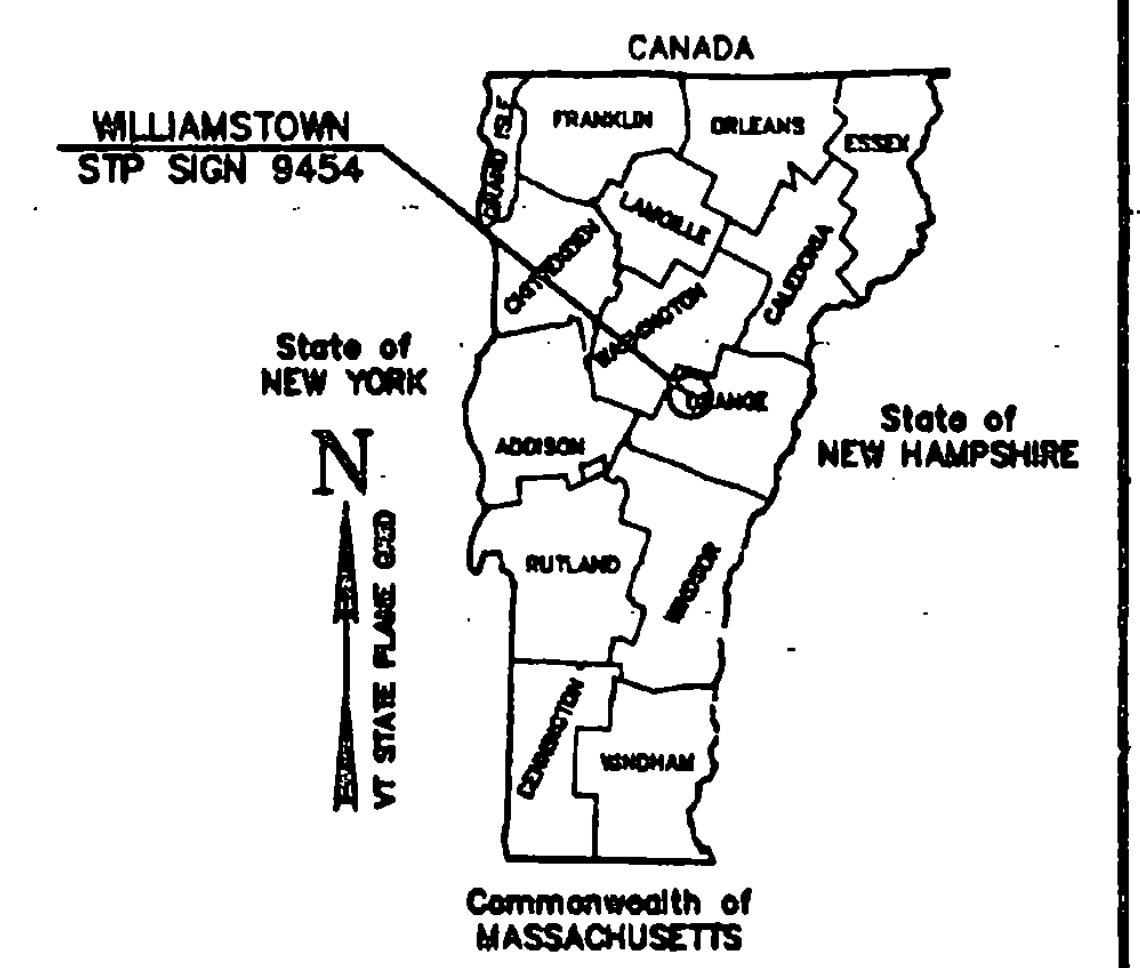
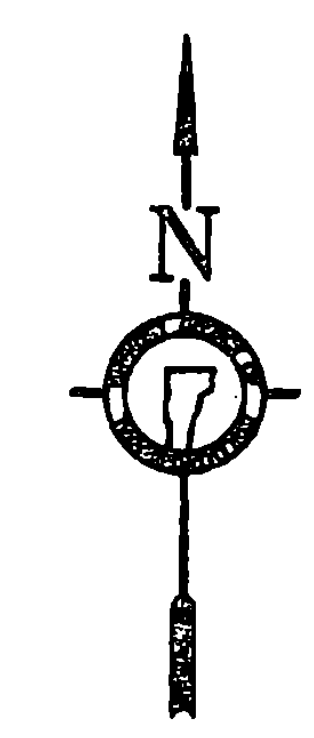
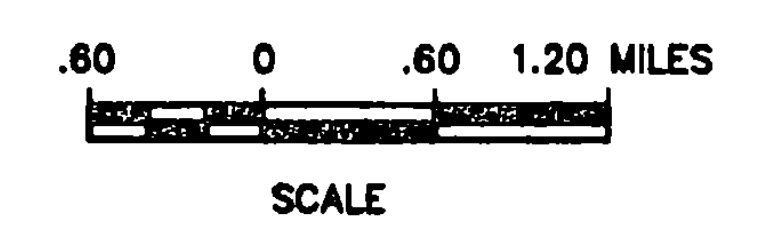
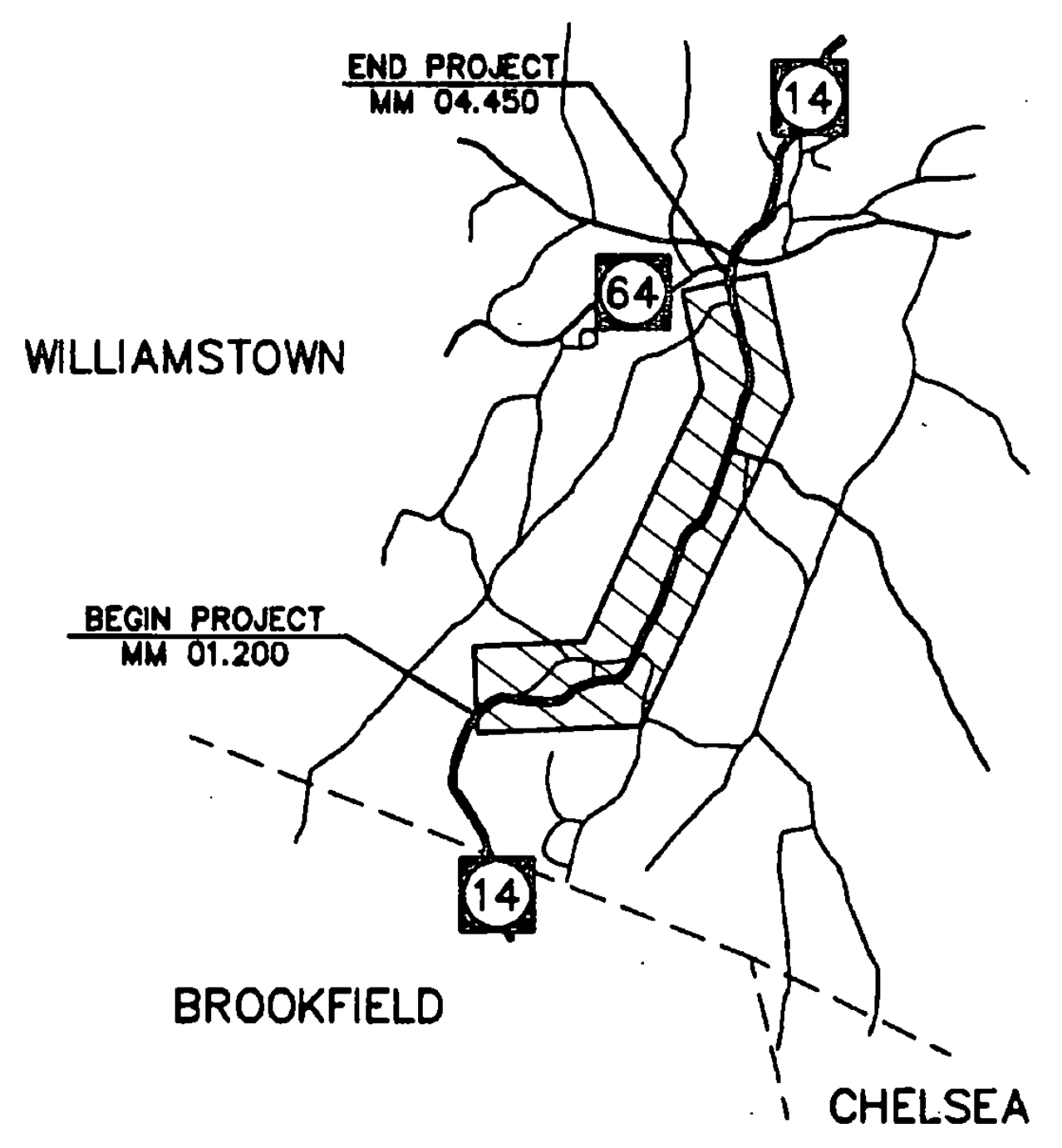


PROPOSED IMPROVEMENT TOWN OF WILLIAMSTOWN COUNTY OF ORANGE VT. RTE. 14

VT. RTE. 14 - BEGINNING AT A POINT APPROXIMATELY 1.200 MILES NORTH OF THE BROOKFIELD/WILLIAMSTOWN TOWN LINE AND EXTENDING NORTH 3.250 MILES.

LENGTH OF ROADWAY FEET = 17,160 MILES = 3.250

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES
UPGRADING SIGNS AND SIGN SUPPORTS.



TRAFFIC DATA	
1993 ADT	= 2200
1993 DHV	= 305
2003 ADT	= 2820
2003 DHV	= 365



Steven J. Bradstreet

TYLER INTERNATIONAL

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 1980, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON MARCH 18, 1980 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
DIRECTOR OF CONSTRUCTION & MAINTENANCE	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
DIVISION ADMINISTRATOR	
PROJECT WILLIAMSTOWN	
STP SIGN 9454	
SHEET 1 OF 15 SHEETS	

QUANTITY SHEET

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

APPROXIMATE SUMMARY OF QUANTITIES

[illegible]

DETAILED SUMMARY OF QUANTITIES

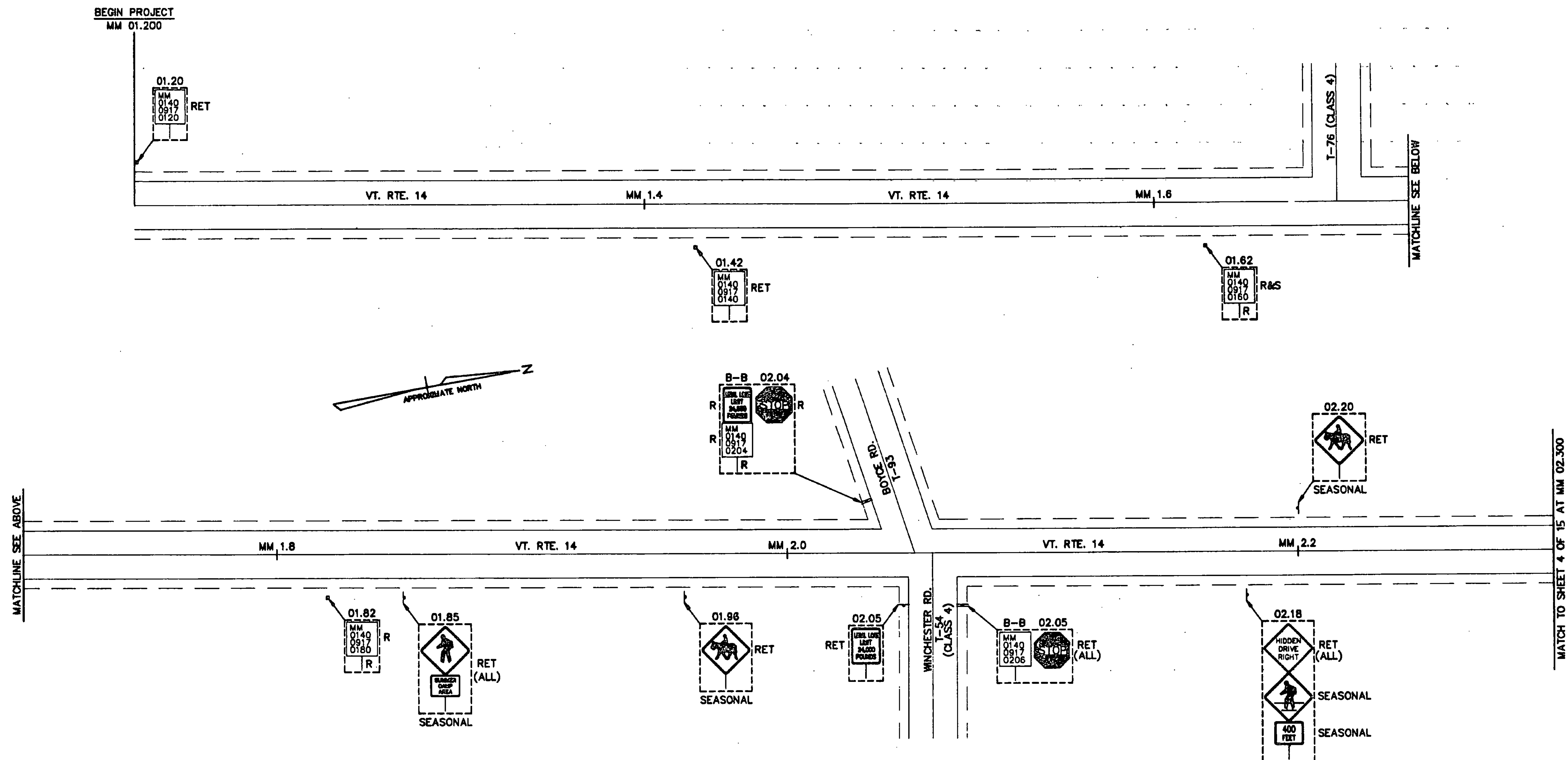
[illegible]

DETAILED SUMMARY OF QUANTITIES

[illegible]

REVISED 10/31/96 PLD

[illegible]



NOTE:
MILE MARKER LOCATIONS ARE BASED ON
BRIDGE 53 @ MM 01.154.

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

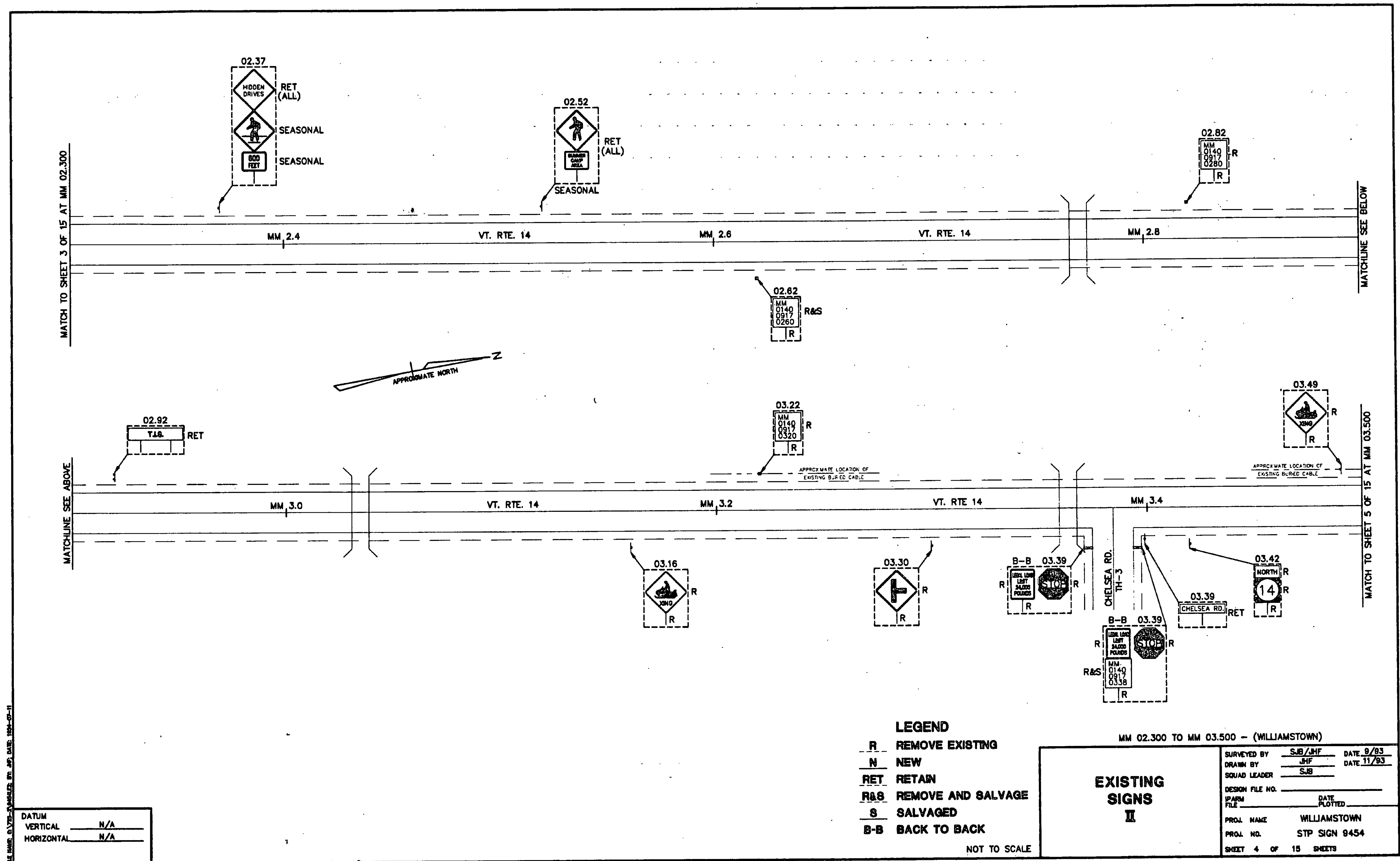
NOT TO SCALE

MM 01.200 TO MM 02.300 - (WILLIAMSTOWN)

**EXISTING
SIGNS
I**

SURVEYED BY	SJB/JHF	DATE	9/93
DRAWN BY	JHF	DATE	11/93
SQUAD LEADER	SJB		
DESIGN FILE NO.			
IPARMS FILE		DATE PLOTTED	
PROJ. NAME	WILLIAMSTOWN		
PROJ. NO.	STP SIGN 9454		
SHEET	3	OF	15 SHEETS

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A



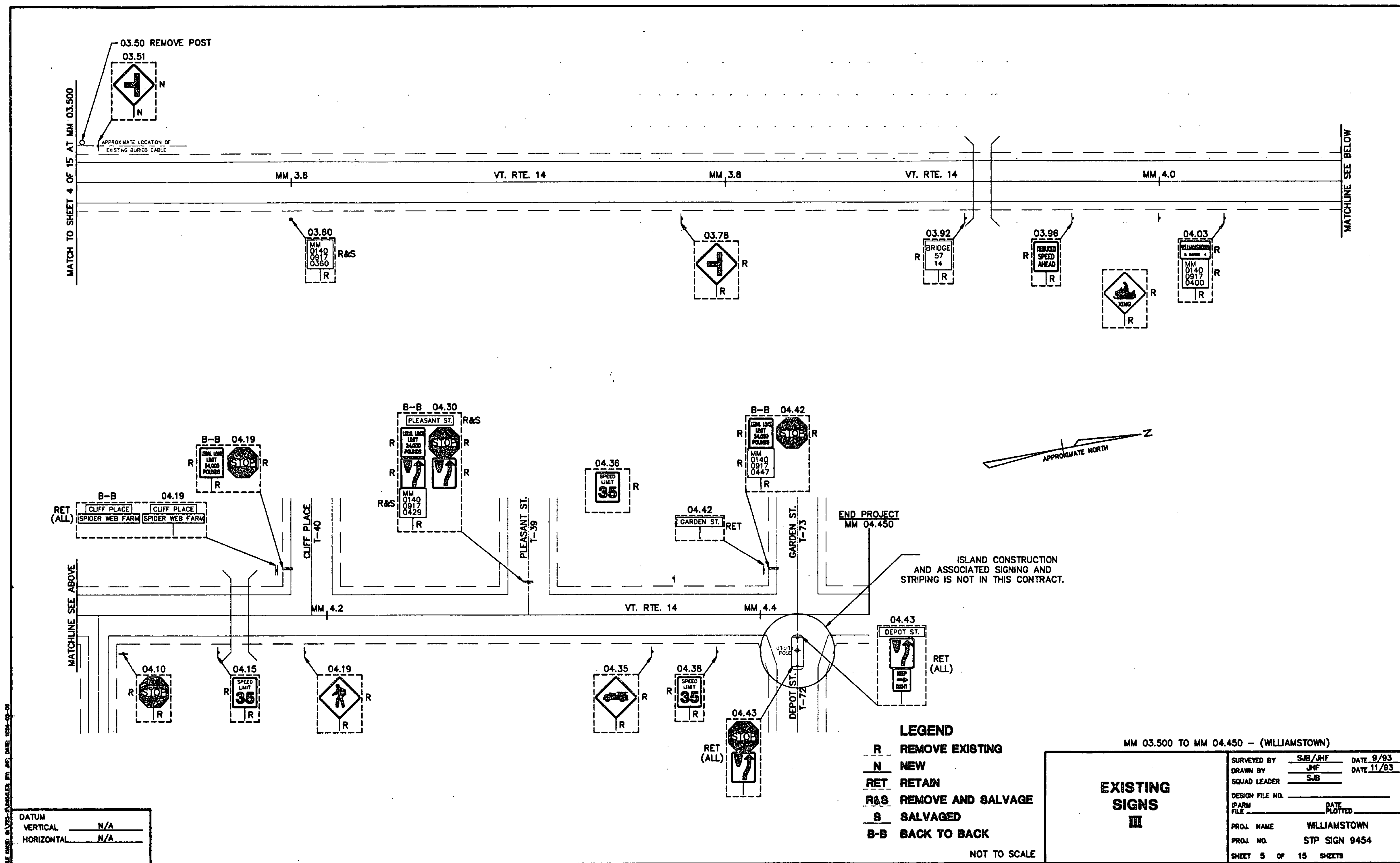
DATE: 6/25/83, DRAWN BY: JHF, DATE: 9/83

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NOT TO SCALE

EXISTING SIGNS II		MM 02.300 TO MM 03.500 - (WILLIAMSTOWN)	
		SURVEYED BY	SJB/JHF DATE 9/83
PROJ. NAME	WILLIAMSTOWN	DRAWN BY	JHF DATE 11/83
		SQUAD LEADER	SJB
DESIGN FILE NO.		DATE PLOTTED	
PROJ. NO.	STP SIGN 9454		
SHEET	4 OF 15 SHEETS		



SEE MAPS, SUTHERLAND, ET AL., MAPS, 1234-01-20

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NOT TO SCALE

MM 03.500 TO MM 04.450 - (WILLIAMSTOWN)	
EXISTING SIGNS III	SURVEYED BY <u>SJB/JMF</u> DATE <u>9/83</u>
	DRAWN BY <u>JMF</u> DATE <u>11/83</u>
	SQUAD LEADER <u>SJB</u>
	DESIGN FILE NO. _____ DATE PLOTTED _____
PROJ. NAME <u>WILLIAMSTOWN</u>	
PROJ. NO. <u>STP SIGN 9454</u>	
SHEET <u>5</u> OF <u>15</u> SHEETS	

FILE NAME: 0176-2-000001.DWG; BY: JHF; DATE: 10-07-91

DATUM
VERTICAL N/A
HORIZONTAL N/A

NOTE:
MILE MARKER LOCATIONS ARE BASED ON
BRIDGE 53 @ MM 01.154.

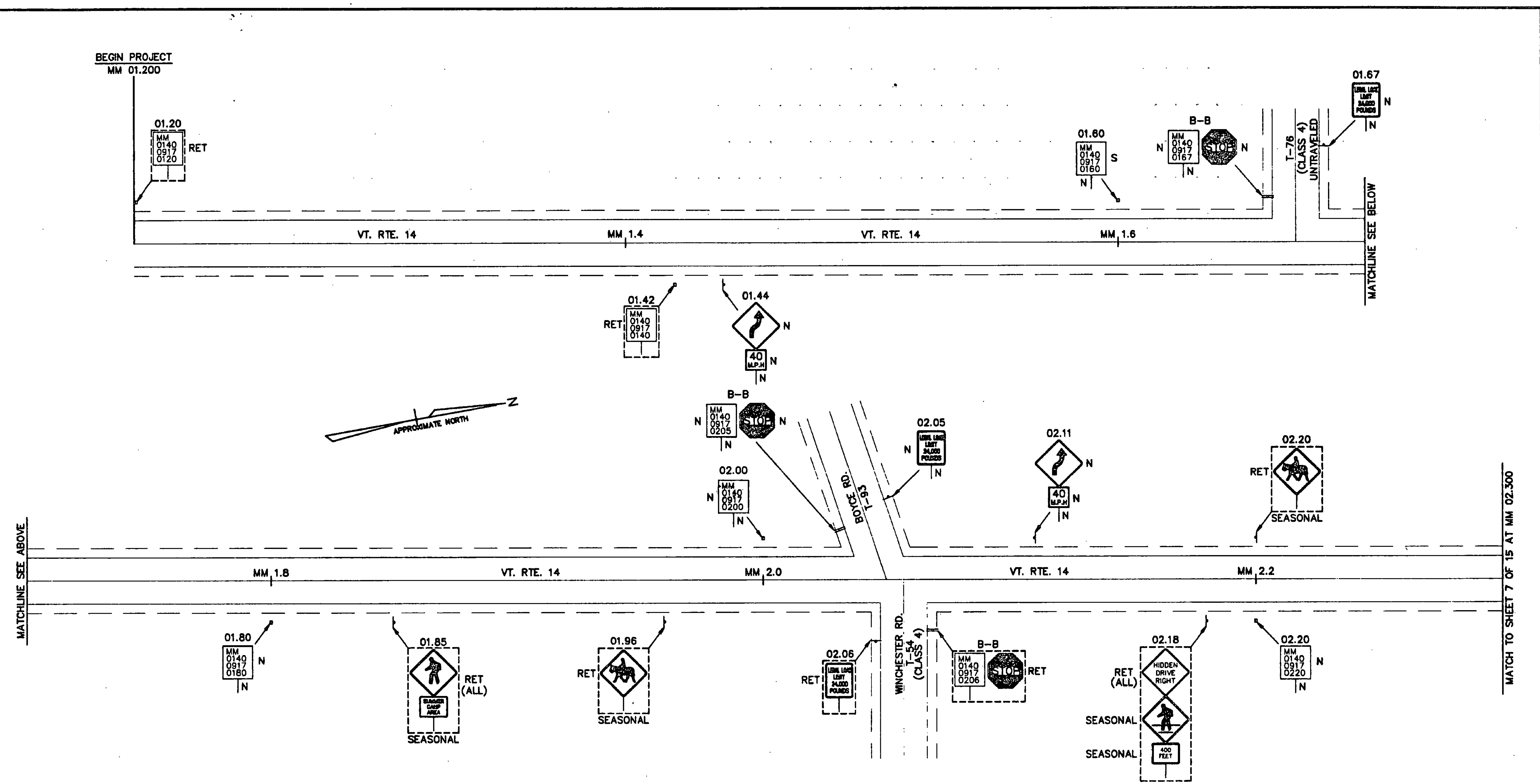
- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

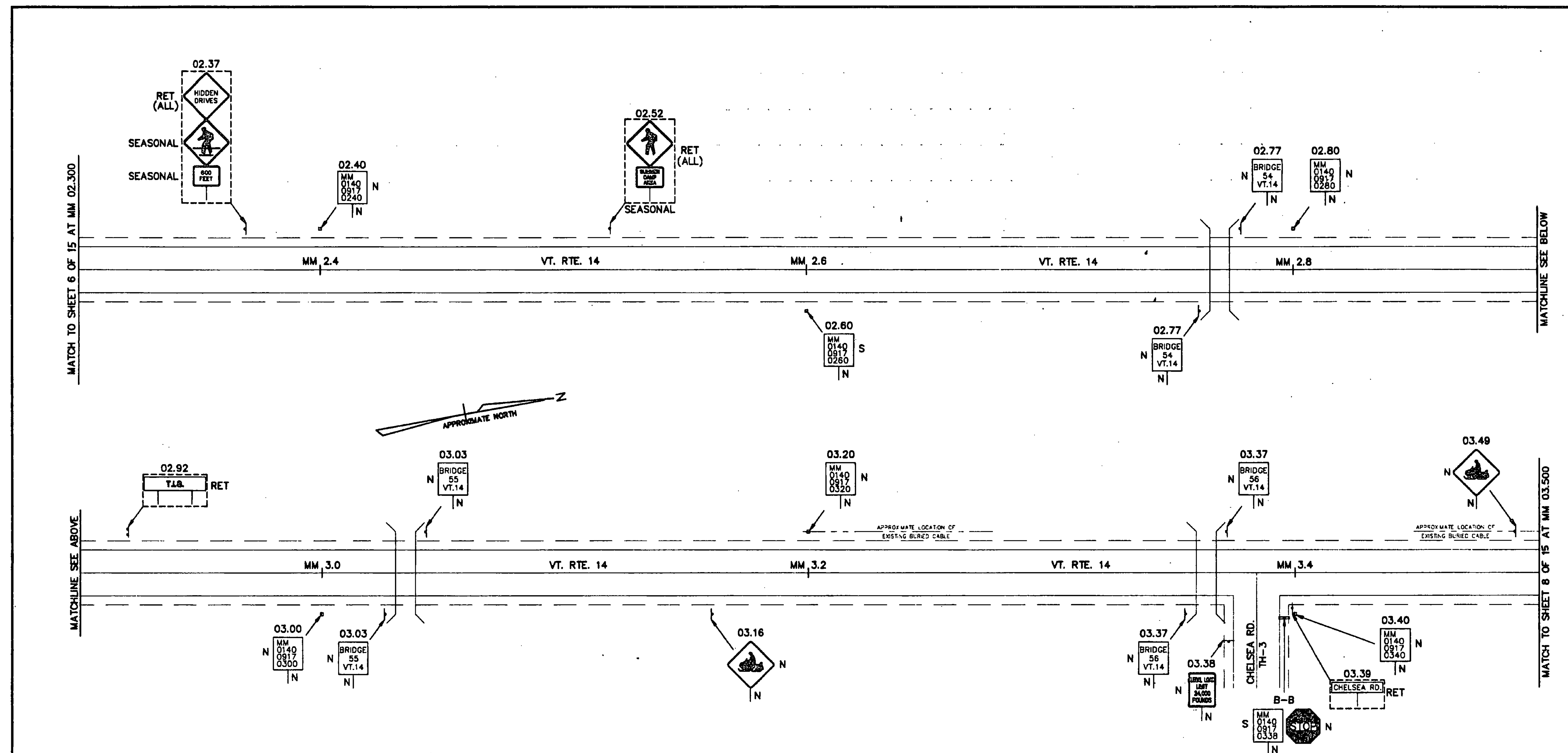
NOT TO SCALE

MM 01.200 TO MM 02.300 - (WILLIAMSTOWN)

**NEW
SIGNS
I**

SURVEYED BY	SJB/JHF	DATE	8/93
DRAWN BY	JHF	DATE	11/93
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE	
SPARM FILE		PLOTTED	
PROJ. NAME	WILLIAMSTOWN		
PROJ. NO.	STP SIGN 9454		
SHEET	8 OF 15 SHEETS		





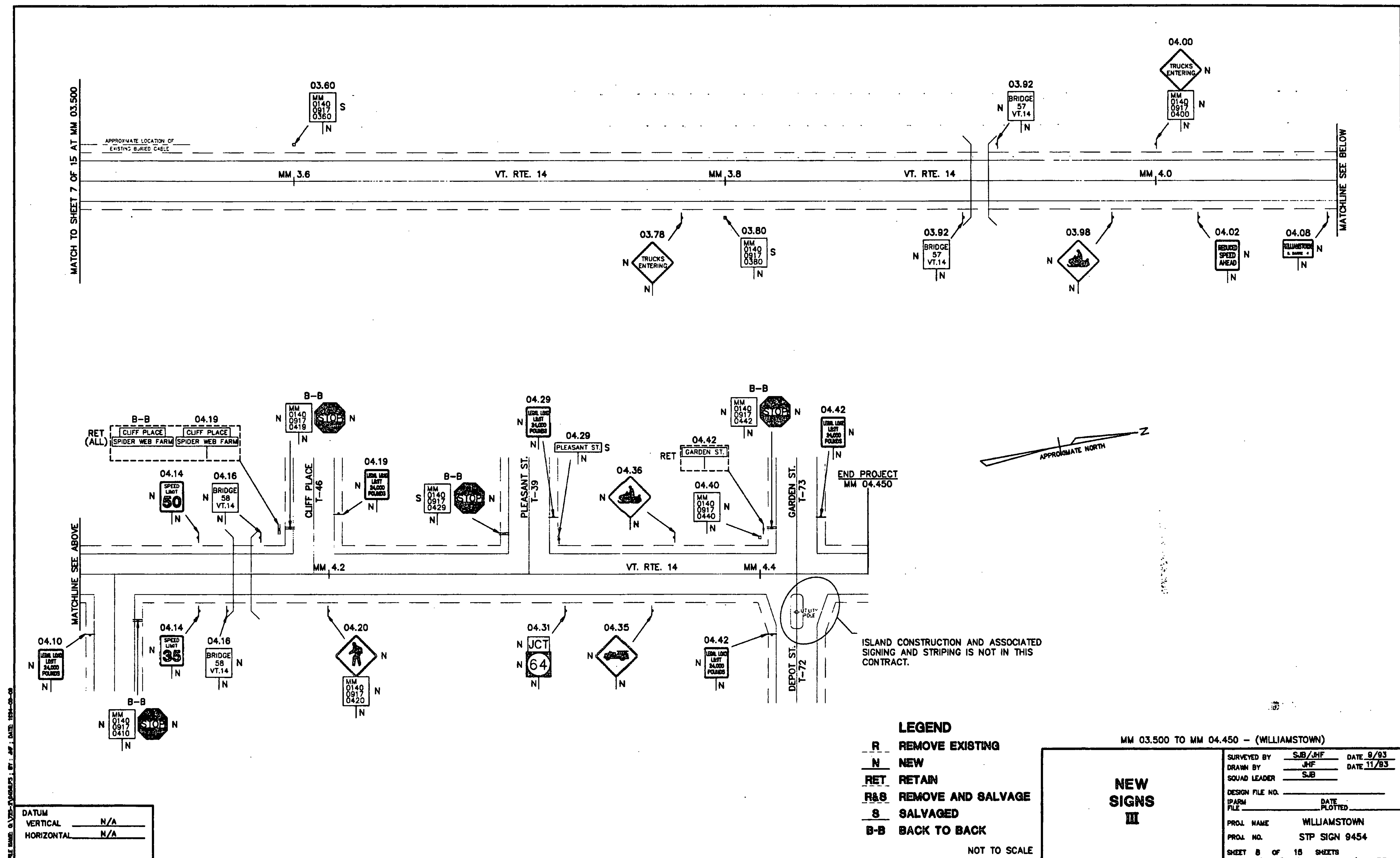
DATE: 01/28/93 BY: JHF DATE: 02/02/93

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

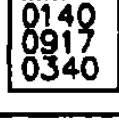
- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NOT TO SCALE

MM 02.300 TO MM 03.500 - (WILLIAMSTOWN)	
NEW SIGNS II	SURVEYED BY <u>SJB/JHF</u> DATE <u>9/93</u>
	DRAWN BY <u>JHF</u> DATE <u>11/93</u>
	SQUAD LEADER <u>SJB</u>
	DESIGN FILE NO. _____
	DATE PLOTTED _____
PROJ. NAME <u>WILLIAMSTOWN</u> PROJ. NO. <u>STP SIGN 9454</u> SHEET 7 OF 15 SHEETS	

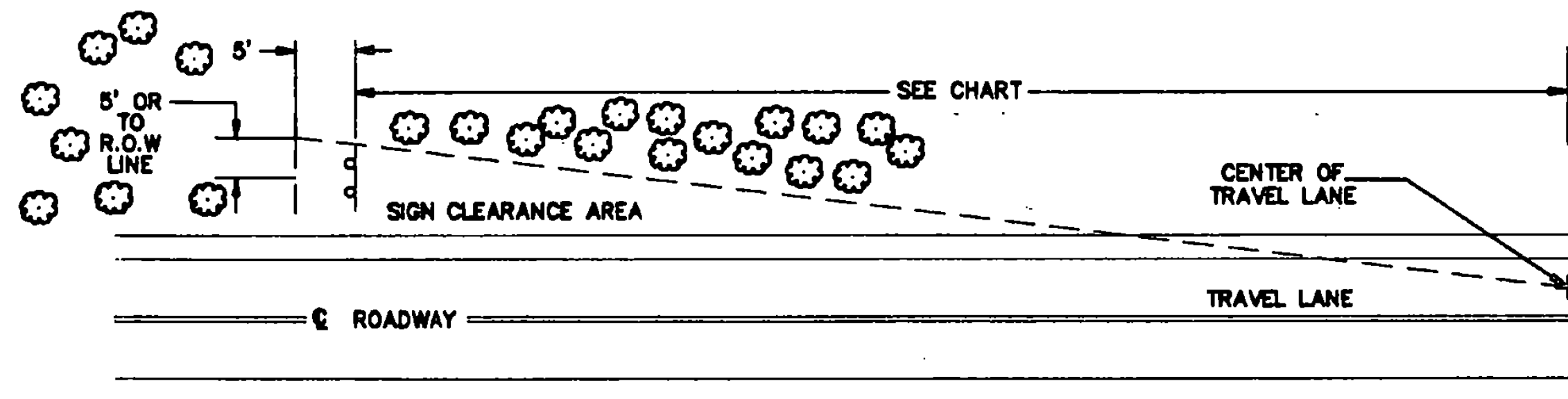


TRAFFIC SIGN SUMMARY SHEET																																
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS						EXIST. POSTS		NEW SIGN POSTS																		REMARKS	SIGN DETAIL		
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL			STD. SIZE		SIGN FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER					
										1.12	2.0	3.0	3.0" ϕ	4.0" ϕ	FOUND- X-HBB-	3" ϕ	3.5" ϕ	4.0" ϕ	5.0" ϕ	POST SIZE	WEIGHT	24"	30"									
	VT. RTE. 14 WILLIAMSTOWN																															
01.44 RT.		30" x 30"	6.3																													15
		18" x 18"	2.3							1		X																			E-152	
01.60 LT.					1					1	X															SALVAGED FROM 01.62 RT.						
01.67 LT.		6" x 8" 30" x 30"	.3 6.3							1		X															BACK TO BACK			E-138 E-143		
01.67 LT.		24" x 30"	5							1		X																			E-141	
01.80 RT.		6" x 8"	.3							1	X																				E-138	
02.00 LT.		6" x 8"	.3							1	X																				E-138	
02.05 LT.		6" x 8" 30" x 30"	.3 6.3							1		X															BACK TO BACK			E-138 E-143		
02.05 LT.		24" x 30"	5							1		X																			E-141	
02.11 LT.		30" x 30"	6.3																												15	
		18" X 18"	2.3							1		X																			E-152	
02.20 RT.		6" x 8"	.3							1	X																				E-138	
02.40 LT.		6" x 8"	.3							1	X																				E-138	
02.60 RT.					1					1	X																SALVAGED FROM 02.62 RT.					
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ". TOTALS			SF. 41.6	SF. 	EA. 2	SF. 				LBS. 300	LBS. 	LBS. 	LBS. 	LBS. 	EA. 	LBS. 	LBS. 	LBS. 	LBS. 		LBS. 	EA. 	EA. 		TRAFFIC SIGN SUMMARY SHEET I		DRAWN BY SQUAD LEADER DESIGN FILE NO. FILE	JHF SLB	DATE 12/83	PLOTTED	PROJ. NAME WILLIAMSTOWN PROJ. NO. STP SIGN 9454 SHEET 9 OF 15 SHEETS	

TRAFFIC SIGN SUMMARY SHEET																													
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NO. OF POSTS	NEW SIGN POSTS																REMARKS	SIGN DETAIL		
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.		FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		FTG. SIZE		SIGN FRAME	DETAIL ON SHEET NUMBER		STD. SHEET NUMBER		
									1.12	2.0	3.0	3.0"Ø	4.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	24"	30"							
	VT. RTE. 14 WILLIAMSTOWN																												
02.77 RT.		6" x 8"	.3						1	X																		E-134	
02.77 LT.		6" x 8"	.3						1	X																		E-134	
02.80 LT.		6" x 8"	.3						1	X																		E-138	
03.00 RT.		6" x 8"	.3						1	X																		E-138	
03.03 RT.		6" x 8"	.3						1	X																		E-134	
03.03 LT.		6" x 8"	.3						1	X																		E-134	
03.16 LT.		30" x 30"	6.3						1			X														15			
03.20 LT.		6" x 8"	.3						1	X																		E-138	
03.37 RT.		6" x 8"	.3						1	X																		E-134	
03.37 LT.		6" x 8"	.3						1	X																		E-134	
03.38 RT.		24" x 30"	5						1			X																E-141	
03.38 RT.	 	30" x 30"	6.3		1				1			X														SALVAGED FROM 03.38 RT. BACK TO BACK	E-143		
03.40 RT.		6" x 8"	.3						1	X																		E-138	
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.		LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET II		DRAWN BY: JHE DATE: 12/83 SQUAD LEADER: SEB DESIGN FILE NO.: IPARM FILE: DATE PLOTTED: PROJ. NAME: WILLIAMSTOWN PROJ. NO.: STP SIGN 9454 SHEET 10 OF 15 SHEETS			
TOTALS			20.6		1					206																			

[illegible]

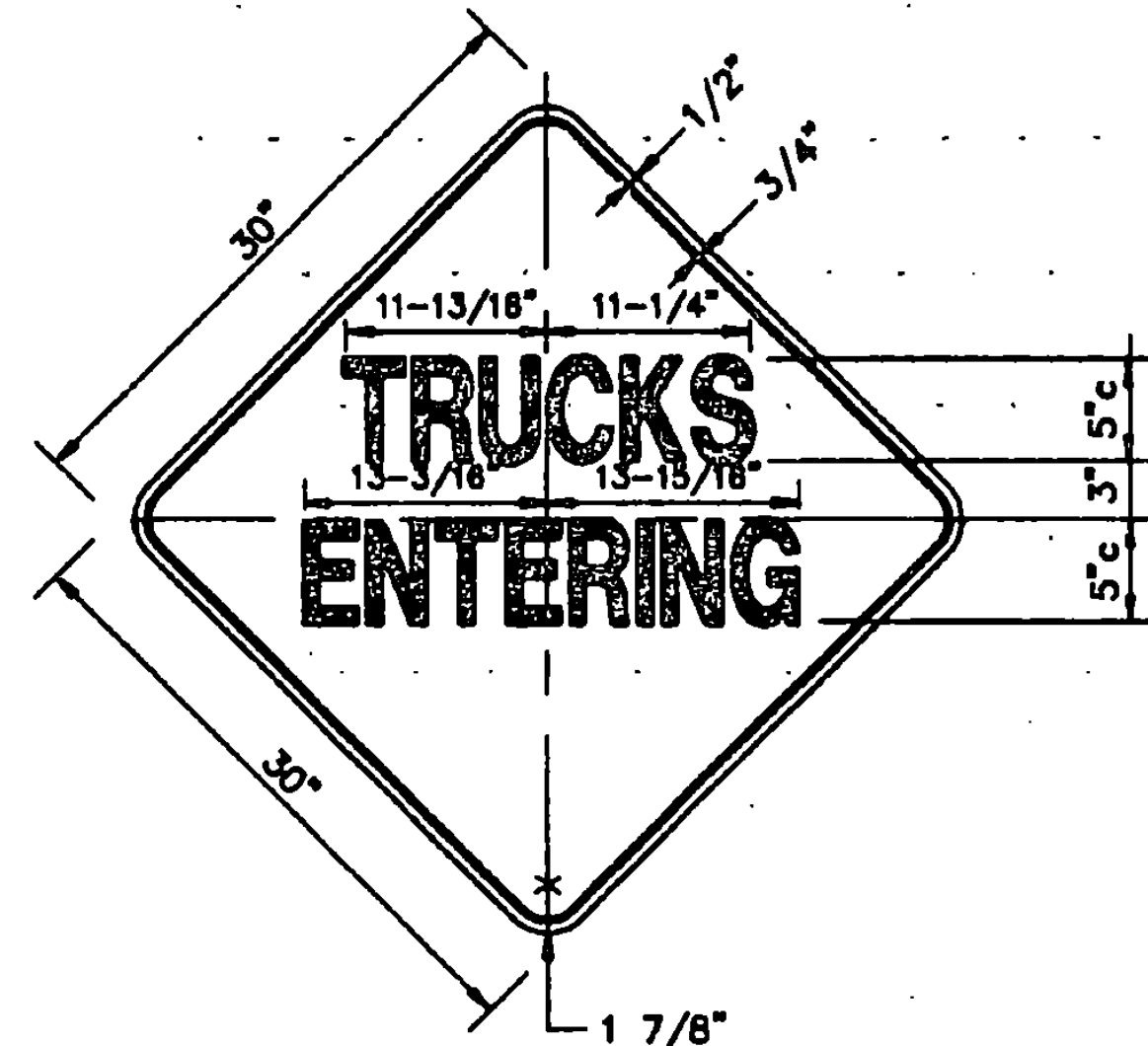
[illegible]



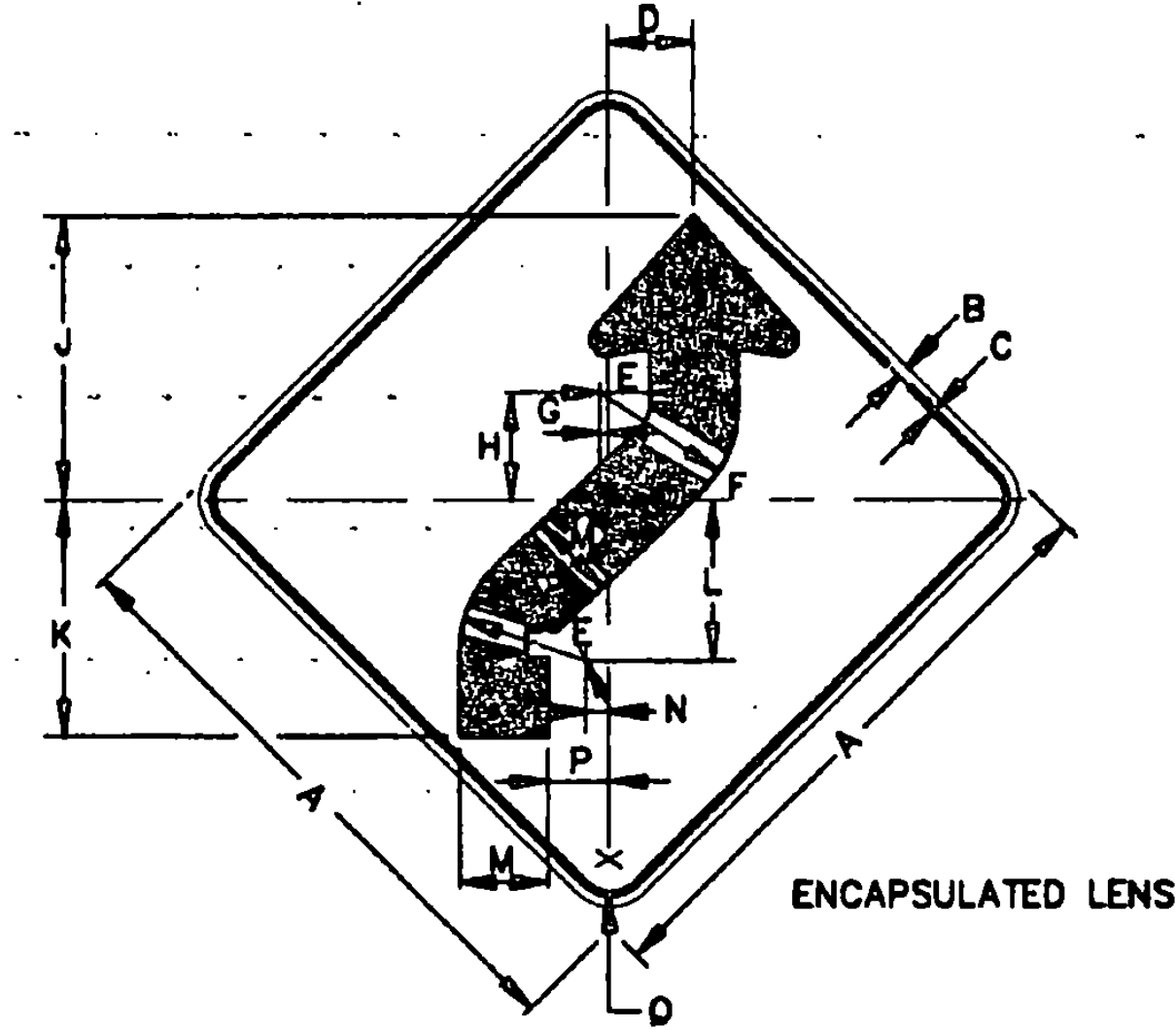
THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS, TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL. PAYMENT WILL BE FOR THINNING & TRIMMING (MOD.) ITEM 201.31. NO CHEMICALS (POISONS OR DEFOLIANTS) ALLOWED.

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500

CLEARING LIMITS FOR SIGNS ON CONVENTIONAL ROADS

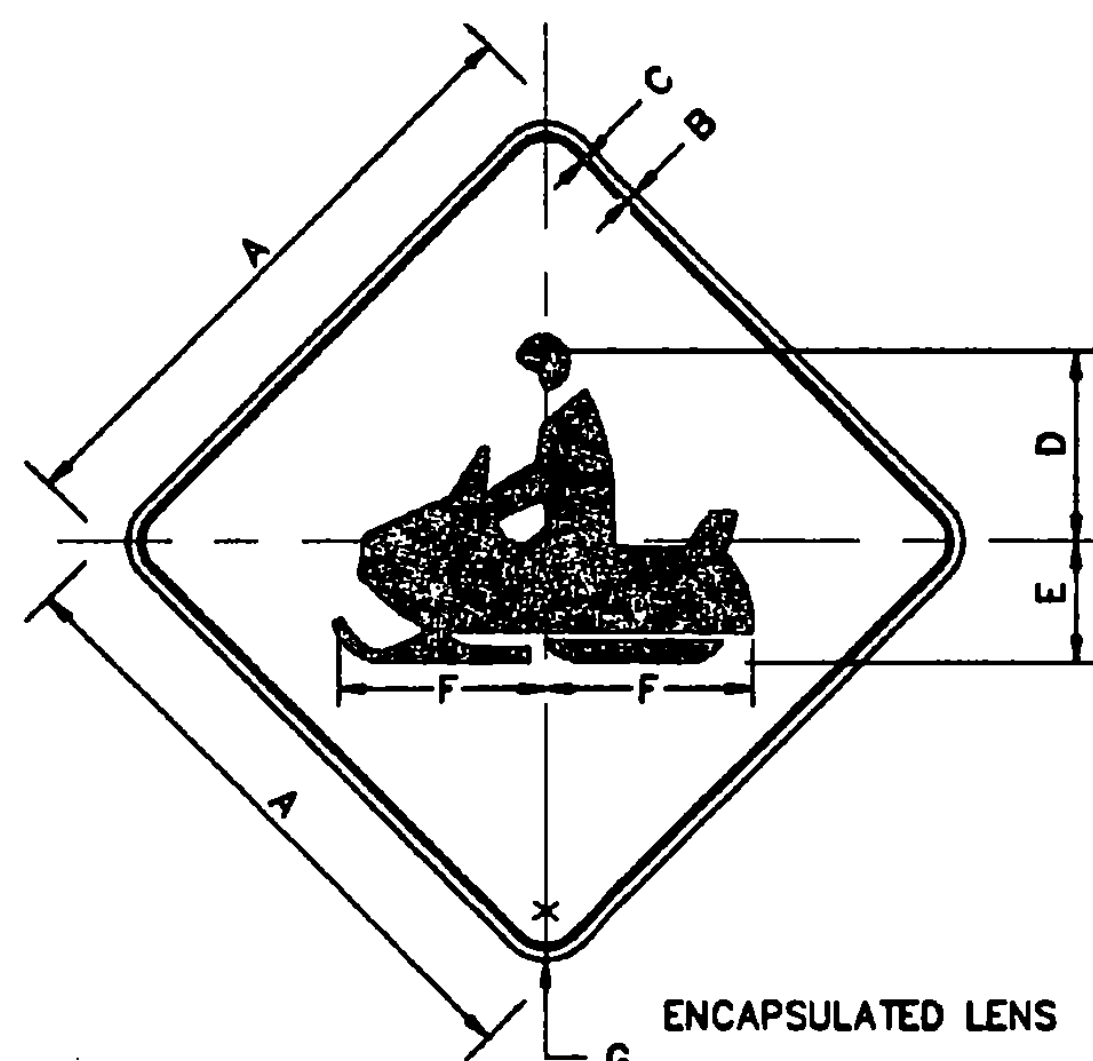


COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



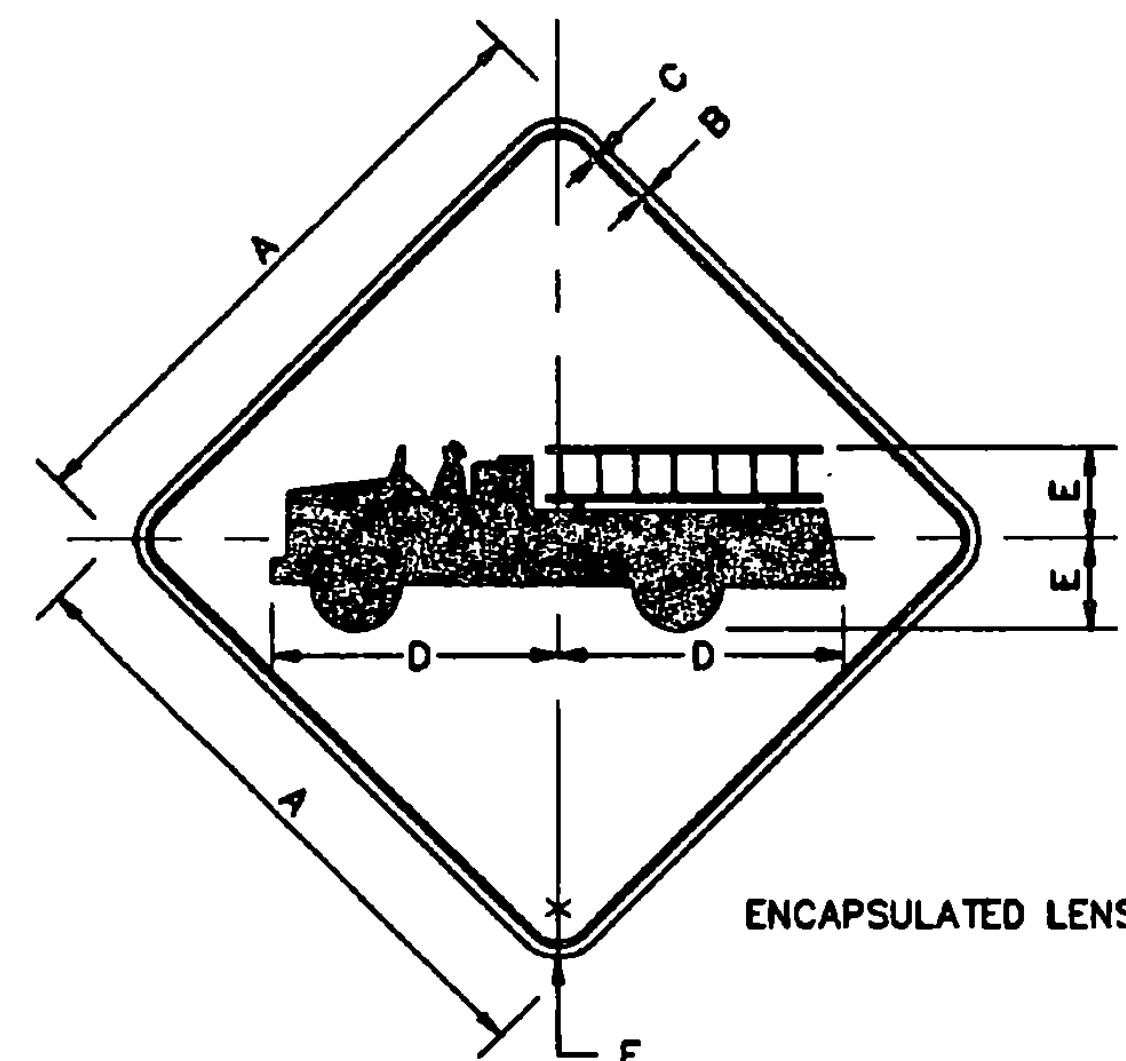
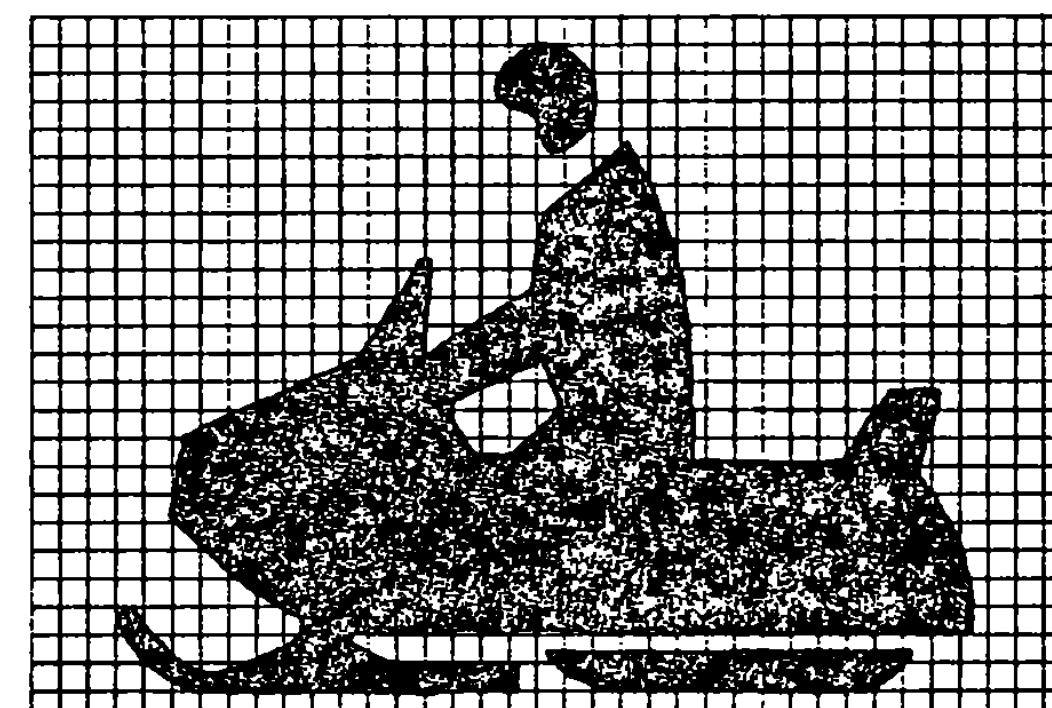
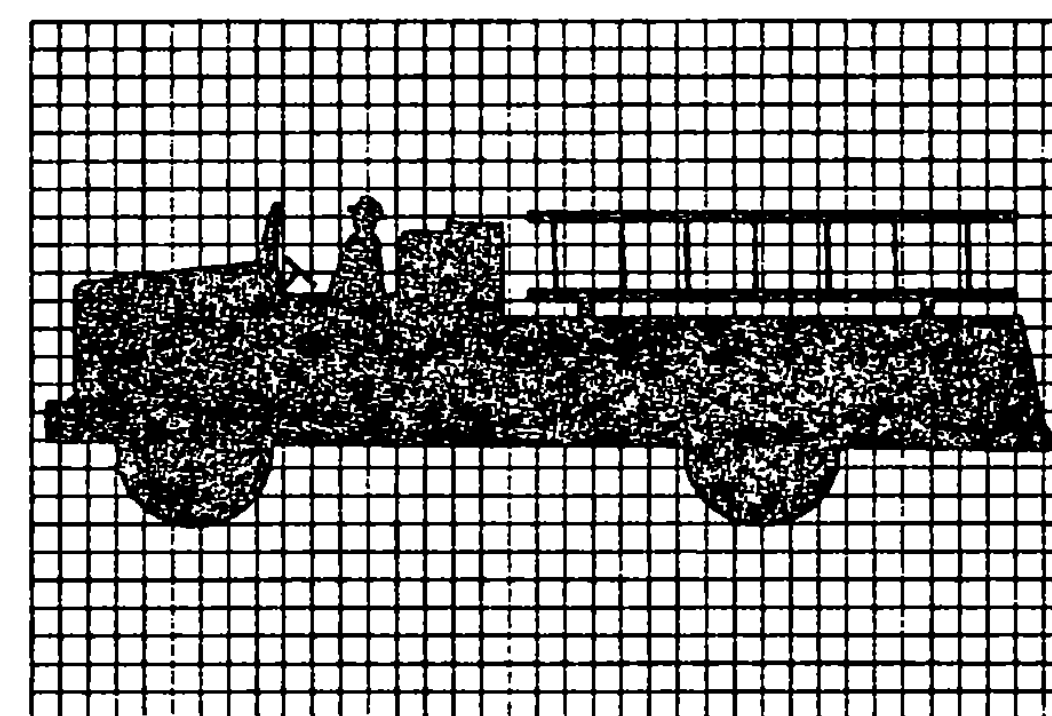
SIGN	DIMENSION (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
STD.	30	1/2	3/4	3-15/16	1-7/8	8-1/4	3/8	4-3/8	14-1/16	10-5/16	8-9/16	4-3/8	1-13/32	3-9/32	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	G
MIN.	30	1/2	3/4	9 3/16	5 7/8	10 1/16	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)					
	A	B	C	D	E	F
MIN.	30	1/2	3/4	13 3/4	4 3/8	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151

NOTE:

TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. MINOR VARIATIONS IN TEXT DIMENSIONS ARE ACCEPTABLE BASED ON INDIVIDUAL MANUFACTURER'S LETTER FABRICATION. SIGNIFICANT CHANGES WHICH AFFECT SIGN APPEARANCE SHALL BE BROUGHT TO THE ATTENTION OF THE VAOT'S TRAFFIC AND SAFETY DIVISION BEFORE FABRICATION.

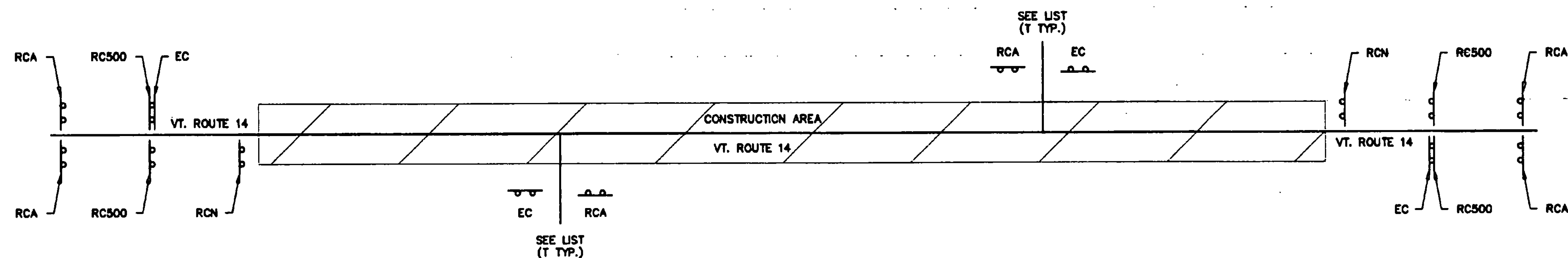
SIGN DETAILS

SURVEYED BY	N/A	DATE	N/A
DRAWN BY	JHF	DATE	12/83
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE PLOTTED	
PROJ. NAME	WILLIAMSTOWN		
PROJ. NO.	STP SIGN 9454		
SHEET 14 OF 15 SHEETS			

NOT TO SCALE

CONSTRUCTION APPROACH SIGNING

SEE STD. E-100 FOR SIGN PLACEMENT



LIST OF TOWN ROADS/HIGHWAYS
FOR CONSTRUCTION SIGNS

TOWN HIGHWAY NUMBER	ROAD CONST. AHEAD	END CONST.	OTHER
T-93	1	1	
T-54	1	1	
TH-3	1	1	
T-40	1	1	
T-39	1	1	
T-73	1	1	
T-72	1	1	
T-71	1	1	
VT. 64	1	1	
TH-1	1	1	
T-24	1	1	
TOTAL	11	11	

RCA = ROAD CONSTRUCTION AHEAD
RC500 = ROAD CONSTRUCTION 500'
EC = END CONSTRUCTION
RCN = ROAD CONSTRUCTION NEXT 3.25 MILES
SRCA = SIDE ROAD CONSTRUCTION AHEAD
SRC500 = SIDE ROAD CONSTRUCTION 500'
T = TOWN ROAD
TH = TOWN HIGHWAY

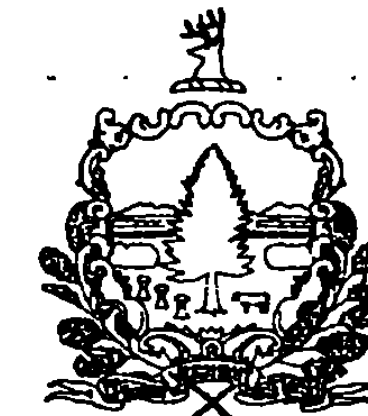
DATUM
VERTICAL N/A
HORIZONTAL N/A

CONSTRUCTION APPROACH SIGNING

SURVEYED BY SJB/JHF DATE N/A
DRAWN BY JHF DATE 12/93
SQUAD LEADER SJB
DESIGN FILE NO. _____
FILE _____ DATE PLOTTED _____
PROJ. NAME WILLIAMSTOWN
PROJ. NO. STP SIGN 9454
SHEET 15 OF 15 SHEETS

NOT TO SCALE

STATE OF VERMONT
AGENCY OF TRANSPORTATION

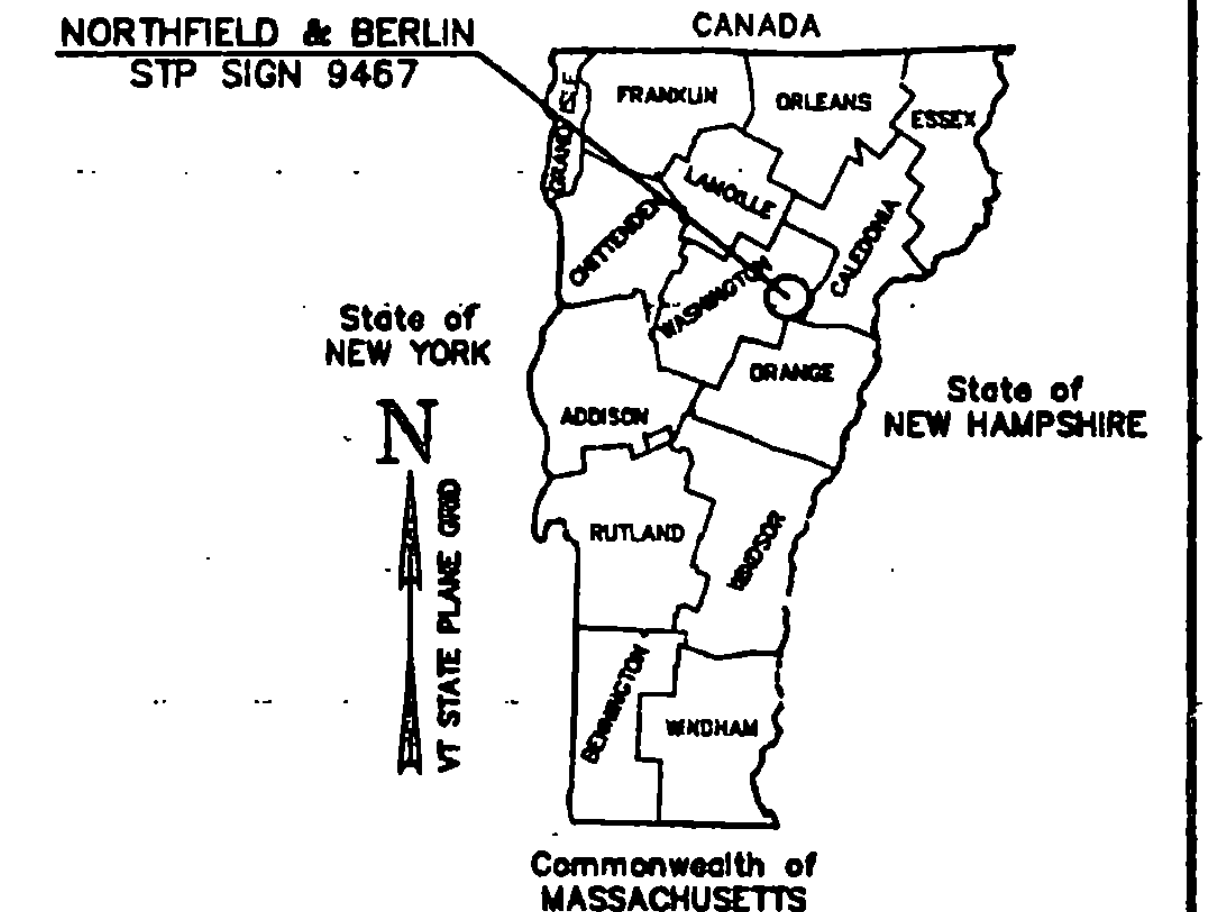


PROPOSED IMPROVEMENT
TOWNS OF NORTHFIELD & BERLIN
COUNTY OF WASHINGTON
VT. RTE. 12

VT. RTE. 12 - BEGINNING AT APPROXIMATELY 0.211 MILES NORTH OF BRIDGE 61
AND EXTENDING NORTH 7.686 MILES.

LENGTH OF ROADWAY FEET = 40,583 MILES = 7.686

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES
UPGRADING SIGNS AND SIGN SUPPORTS.



TRAFFIC DATA
1993 ADT = 5200
1993 DHV = 895
2003 ADT = 6210
2003 DHV = 805

STANDARD SHEETS

NUMBER	TITLE	DATE
C-1	GRANITE SLOPE EDGING	06/01/94
D-1	REINFORCED CONCRETE PIPE D.I. W/CAST IRON GRATE	06/01/94
E-10	TYPICAL MINOR MAINTENANCE APPROACH SIGNS	08/08/95
E-100	CONSTRUCTION APPROACH SIGNS	08/08/95
E-101	CONSTRUCTION SIGN DETAILS	08/08/95
E-102	CONSTRUCTION SIGN DETAILS	08/08/95
E-106	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08/08/95
E-110	MAJOR MAINTENANCE OPERATION LANE CLOSURE	08/08/95
E-120	STANDARD SIGN PLACEMENT EXPRESSWAY AND FREEWAY	08/08/95
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08/08/95
E-124	TOWN LINE SIGNS	08/08/95
E-128B	VILLAGE SIGNS N-W	08/08/95
E-134	BRIDGE NUMBER PLAQUE	08/08/95
E-138	MILE MARKER DETAILS STATE AND TOWN HIGHWAYS	08/08/95
E-140	REGULATORY SIGN DETAILS	09/20/95
E-141	REGULATORY SIGN DETAILS	09/20/95
E-142	REGULATORY SIGN DETAILS	09/20/95
E-143	REGULATORY SIGN DETAILS	09/20/95
E-150	WARNING SIGN DETAILS	08/08/95
E-152	WARNING SIGN DETAILS	08/08/95
E-160	FLANGED CHANNEL STEEL SIGN POST	08/18/95
E-190	RAILROAD CROSSING SIGN AND PAVEMENT MARKING	08/18/95

INDEX TO SHEETS

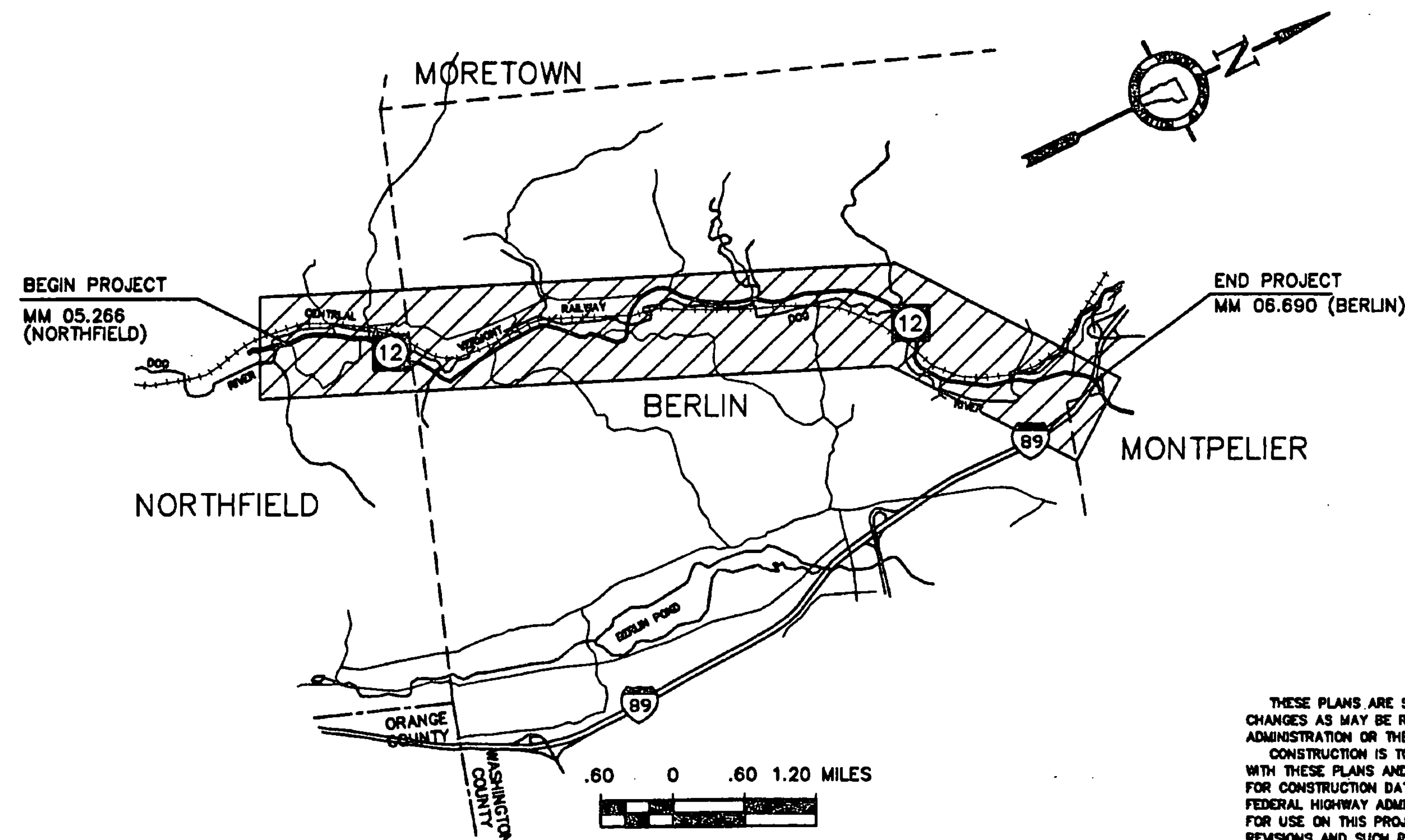
SHEET TITLE	SHEET NO.
TITLE	1
QUANTITY	2
EXISTING SIGNS	3-9
NEW SIGNS	10-16
TRAFFIC SIGN SUMMARY	17-33
INTERSECTION DETAILS	34
SIGN DETAILS	35-38
CONSTRUCTION APPROACH SIGNING	39

CONVENTIONAL SIGNS

COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---X---
POINT OF ACCESS	X
FENCE LINE	---X---
STONE WALL	-----
TRAVELED WAY	-----
GUARD RAIL	-----
RAILROAD	-----
SURVEY LINE	-----
CULVERT	-----
POWER POLE	-----
TELEPHONE POLE	-----
TREES	-----
CONTROL OF ACCESS	---
PROPERTY LINE	---
R.O.W. TAKING LINE	---
SLOPE RIGHTS	---
TOP OF CUT	---
TOE OF SLOPE	---

DATUM
VERTICAL N/A
HORIZONTAL N/A

UNLESS OTHERWISE INDICATED, THE DRAWINGS AND
DETAILS OF THESE PLANS ARE NOT TO SCALE.



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 1990, AS APPROVED BY THE
FEDERAL HIGHWAY ADMINISTRATION ON MARCH 15, 1990
FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT
REVISIONS AND SUCH REVISED SPECIFICATIONS AND
SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE
PLANS.



Stephen J. Brachetti

TYLIN INTERNATIONAL

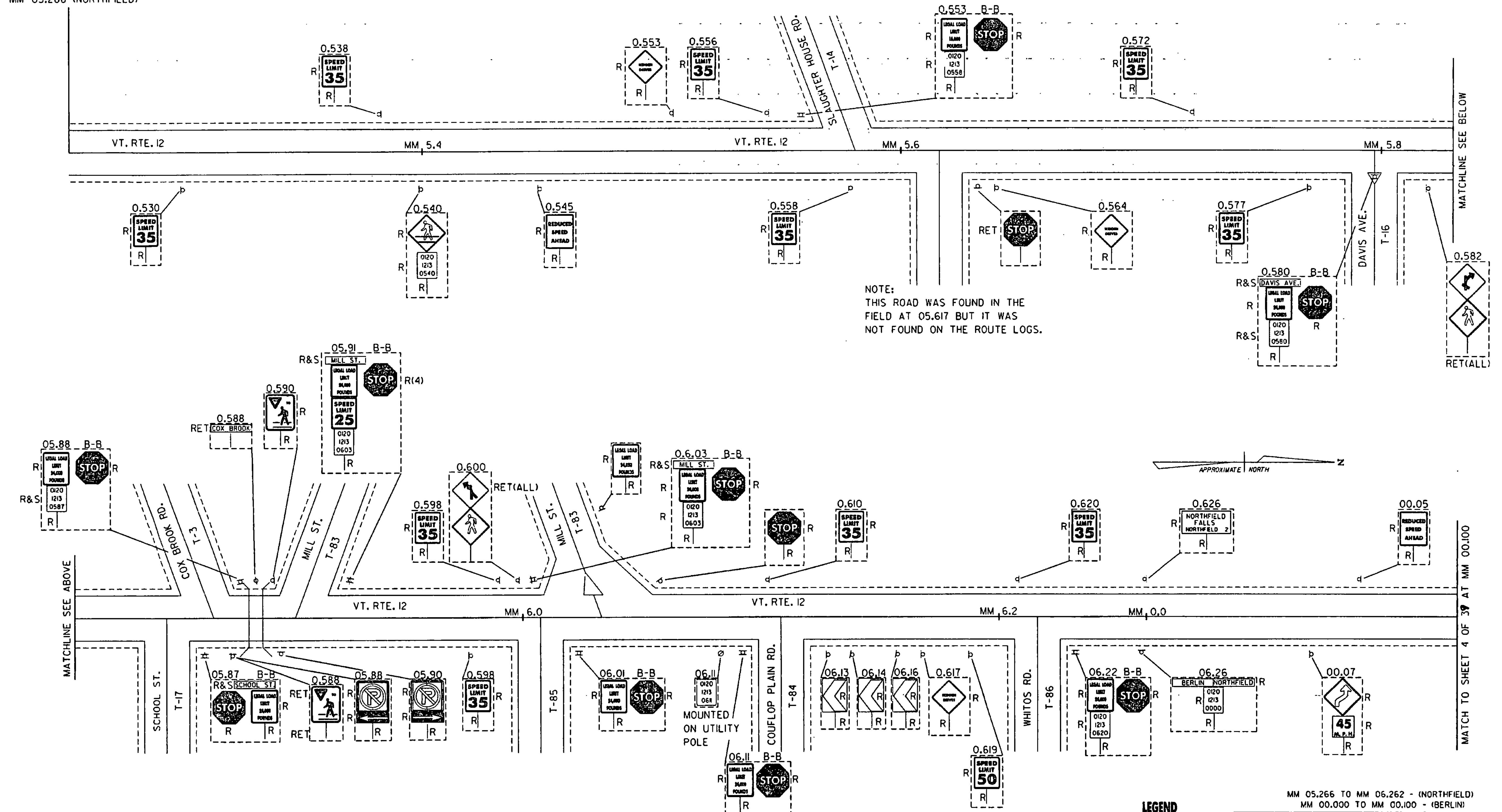
SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED	DATE
DIRECTOR OF CONSTRUCTION & MAINTENANCE	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
DIVISION ADMINISTRATOR	
PROJECT NORTHFIELD-BERLIN	
STP SIGN 9467	
SHEET 1 OF 39 SHEETS	

QUANTITY SHEET

STATE OF VERMONT
AGENCY OF TRANSPORTATION

[illegible][illegible][illegible][illegible]

BEGIN PROJECT
MM 05.266 (NORTHFIELD)



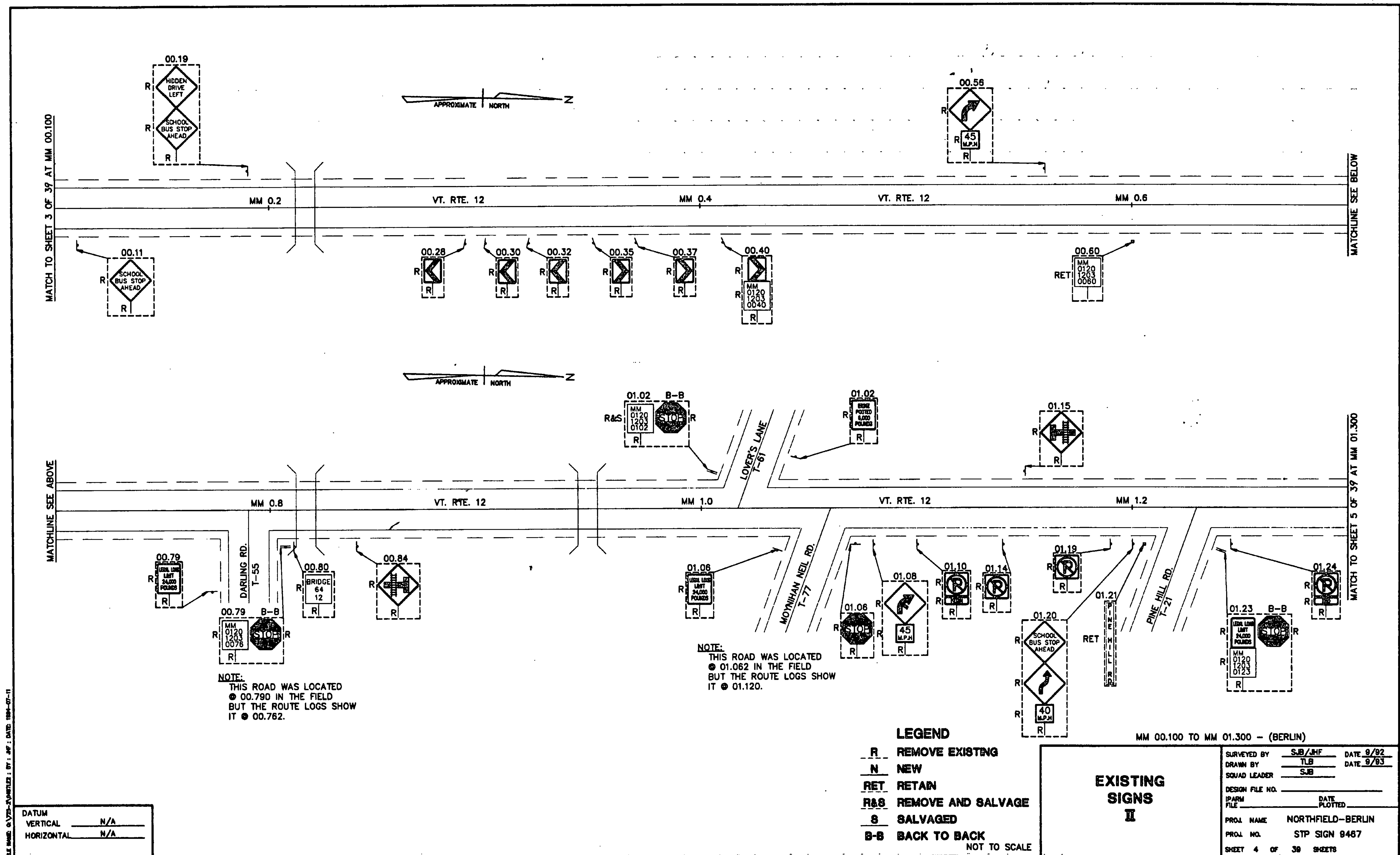
NOTE:
MILE MARKER LOCATIONS FOR NORTHFIELD
ARE BASED ON BRIDGE 61 @ MM 05.055
MILE MARKER LOCATIONS FOR BERLIN
ARE BASED ON BRIDGE 64 @ MM 0.799

LEGEND
R REMOVE EXISTING
N NEW
RET RETAIN
R&S REMOVE AND SALVAGE
S SALVAGED
B-B BACK TO BACK
NOT TO SCALE

**EXISTING
SIGNS**

MM 05.266 TO MM 06.262 - (NORTHFIELD)
MM 00.000 TO MM 00.100 - (BERLIN)

SURVEYED BY _____ DATE _____
DRAWN BY JHK DATE 10/95
SQUAD LEADER _____ DATE _____
DESIGN FILE NO. 188F/JHK/NORFELD.DGN
IPARM _____
FILE NORTH02.1
PROJ. NAME NORTHFIELD-BERLIN
PROJ. NO. STP SIGN 9467
SHEET 3 OF 39 SHEETS



MATCH TO SHEET 3 OF 39 AT MM 00.100

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

MATCH TO SHEET 5 OF 39 AT MM 01.300

NOTE:
THIS ROAD WAS LOCATED
● 00.790 IN THE FIELD
BUT THE ROUTE LOGS SHOW
IT ● 00.762.

NOTE:
THIS ROAD WAS LOCATED
● 01.062 IN THE FIELD
BUT THE ROUTE LOGS SHOW
IT ● 01.120.

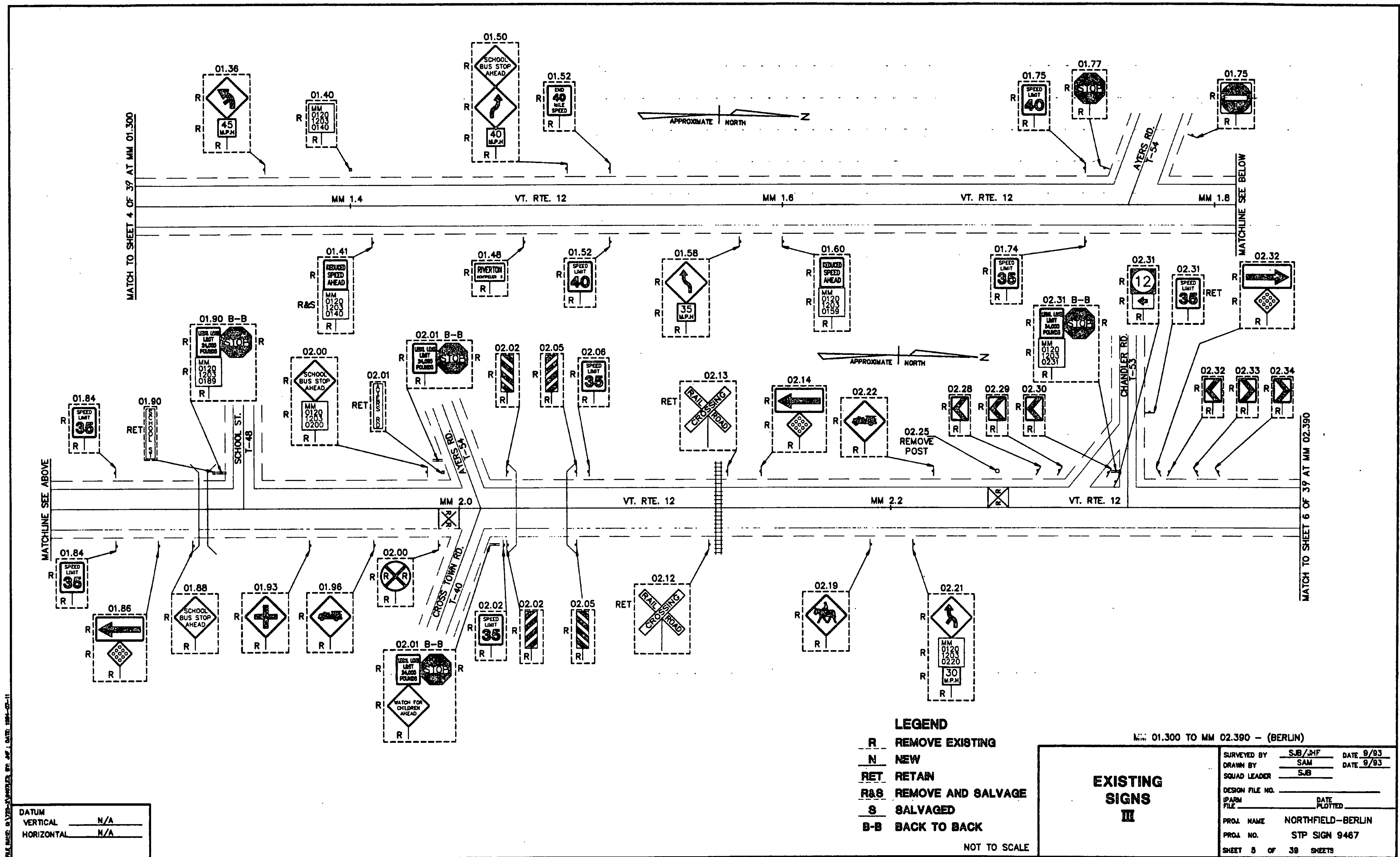
- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK
- NOT TO SCALE

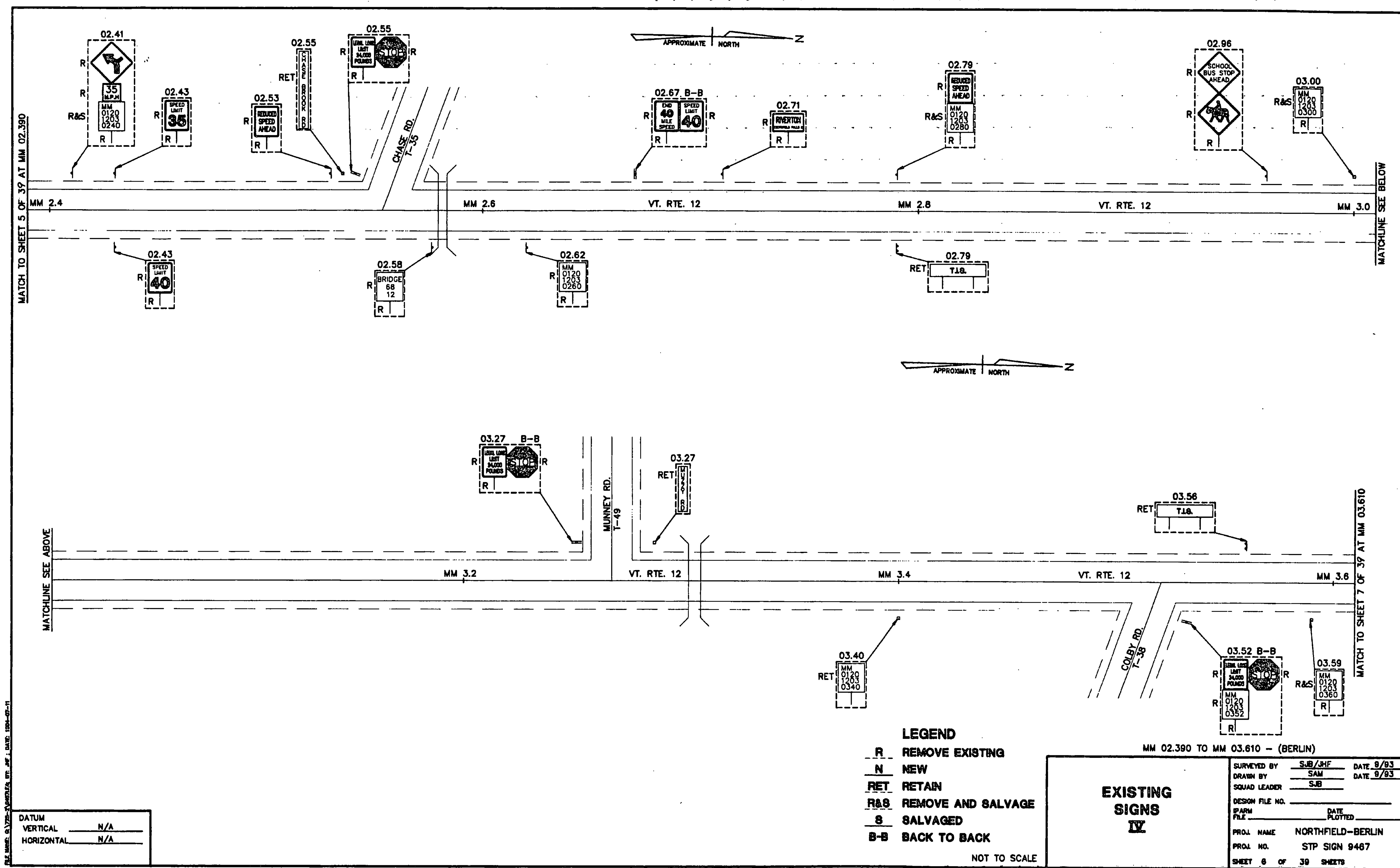
**EXISTING
SIGNS
II**

SURVEYED BY	SJB/SIF	DATE	8/92
DRAWN BY	TLB	DATE	9/93
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE	
IPARM FILE		FILED	
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9467		
SHEET	4	OF	39 SHEETS

FILE NAME: G:\VTS-PLANETEX\BY: JF: DATE: 1994-07-11

DATUM
VERTICAL N/A
HORIZONTAL N/A





MATCH TO SHEET 5 OF 39 AT MM 02.390

MATCHLINE SEE BELOW

MATCHLINE SEE ABOVE

MATCH TO SHEET 7 OF 39 AT MM 03.610

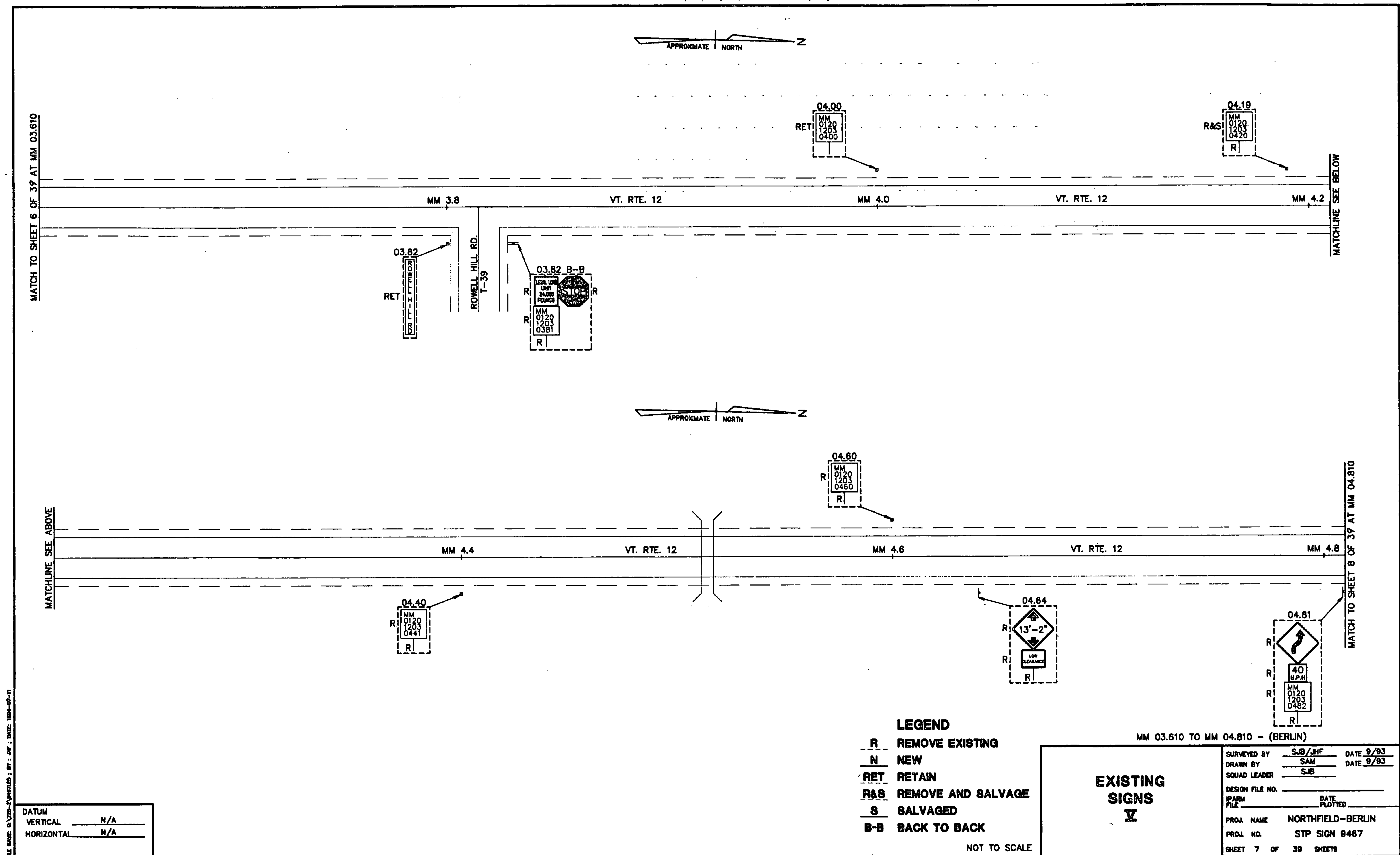
DATE: 9/29/93, DRAWN BY: JLF, DATE: 9/29/93

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NOT TO SCALE

EXISTING SIGNS IV	MM 02.390 TO MM 03.610 - (BERLIN)	
	SURVEYED BY	SJB/JHF DATE 9/93
	DRAWN BY	SAM DATE 9/93
	SQUAD LEADER	SJB
DESIGN FILE NO. _____		
DATE PLOTTED _____		
PROJ. NAME NORTHFIELD-BERLIN		
PROJ. NO. STP SIGN 9467		
SHEET 6 OF 39 SHEETS		



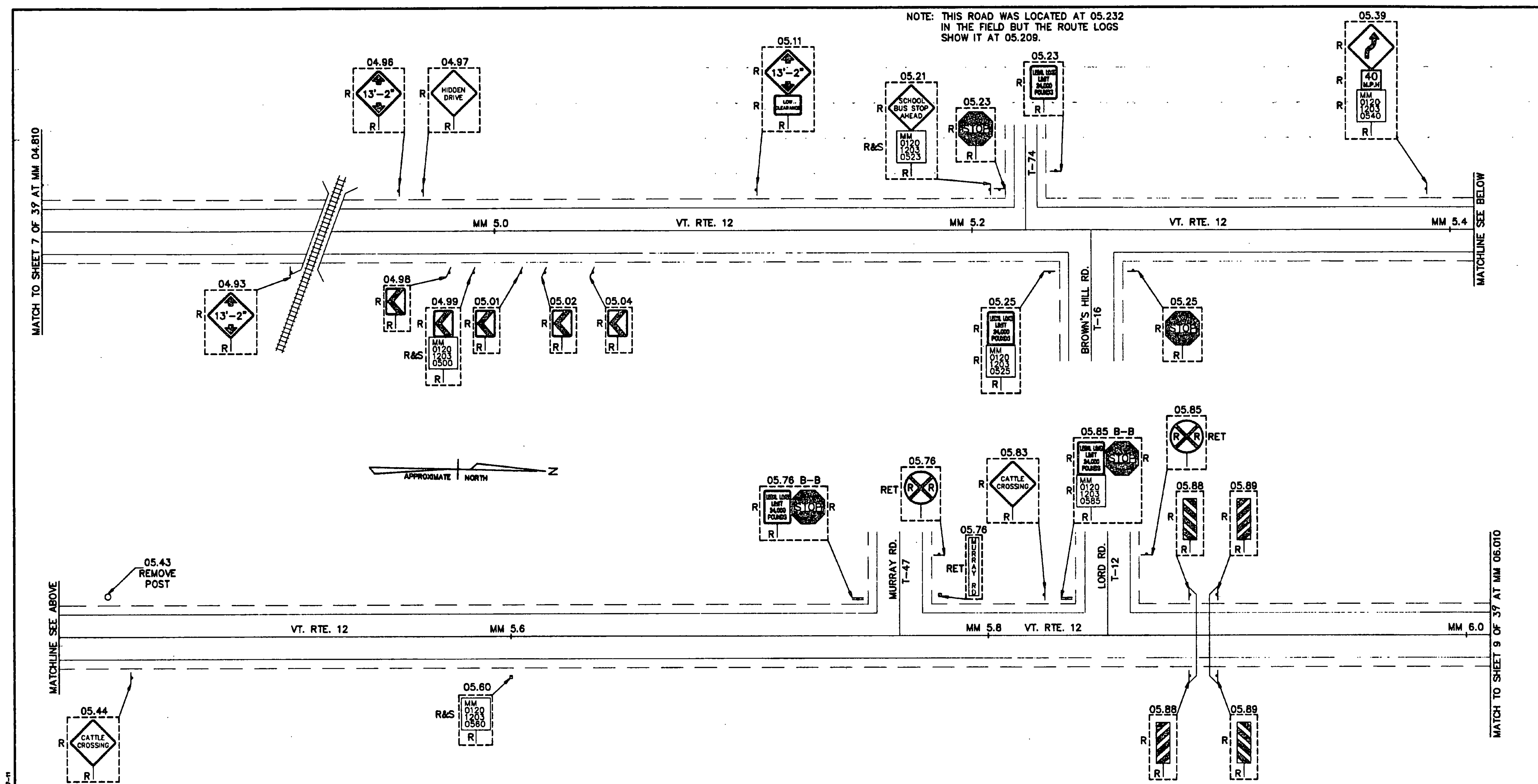
FILE NAME: 61758-1-467153 : BY : JF : DATE: 1994-07-11

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

NOT TO SCALE

EXISTING SIGNS 		MM 03.610 TO MM 04.810 - (BERLIN)			
		SURVEYED BY	SJB/JHF	DATE	9/93
		DRAWN BY	SAM	DATE	9/93
		SQUAD LEADER	SJB		
DESIGN FILE NO.					
SPARM FILE		DATE PLOTTED			
PROJ. NAME		NORTHFIELD-BERLIN			
PROJ. NO.		STP SIGN 9487			
SHEET 7 OF 39 SHEETS					



NOTE: THIS ROAD WAS LOCATED AT 05.232
IN THE FIELD BUT THE ROUTE LOGS
SHOW IT AT 05.208.

APPROXIMATE NORTH

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

MM 04.810 TO MM 06.010 - (BERLIN)

EXISTING SIGNS VI	SURVEYED BY	SJB/JHF	DATE	9/93
	DRAWN BY	SAM	DATE	9/93
	SQUAD LEADER	SJB		
	DESIGN FILE NO.		DATE PLOTTED	
PROJ. NAME		NORTHFIELD-BERLIN		
PROJ. NO.		STP SIGN 9487		
SHEET 8 OF 39 SHEETS				

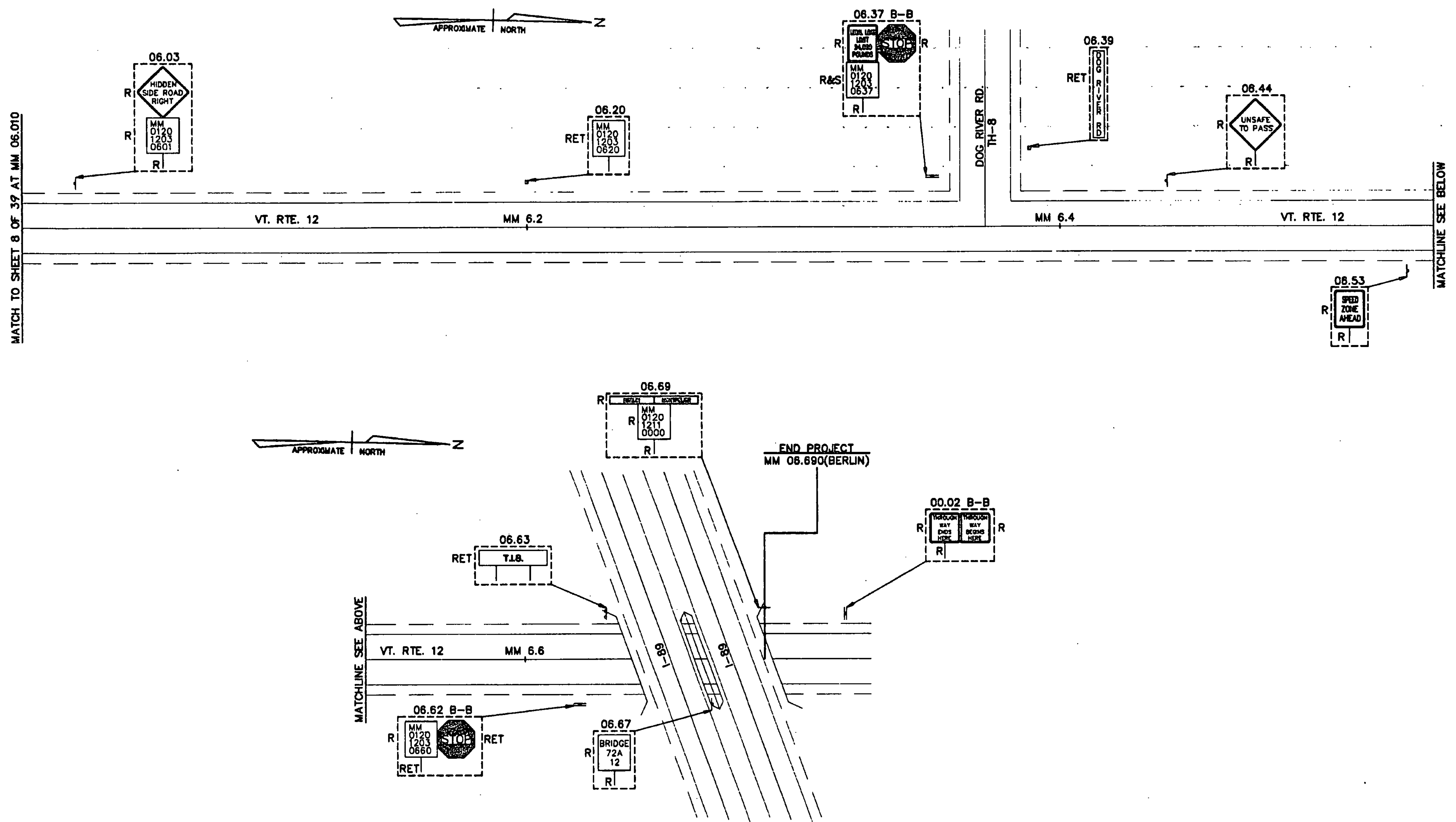
DATUM

VERTICAL N/A

HORIZONTAL N/A

FILE NAME: 0175-A-001.DWG; DATE: 10-01-93

NOT TO SCALE



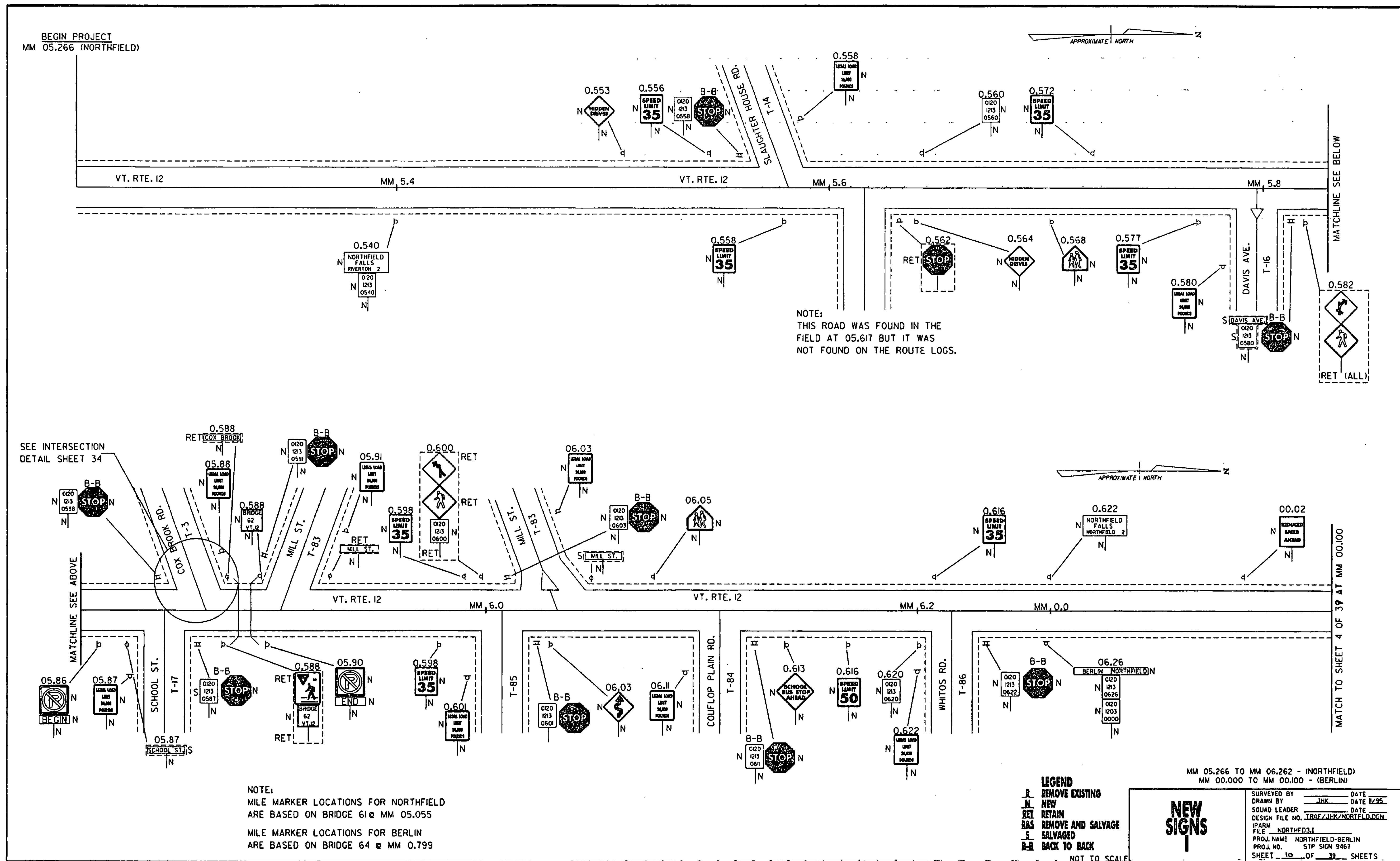
DATUM	
VERTICAL	N/A
HORIZONTAL	N/A

- LEGEND**
- R REMOVE EXISTING
 - N NEW
 - RET RETAIN
 - R&S REMOVE AND SALVAGE
 - S SALVAGED
 - B-B BACK TO BACK

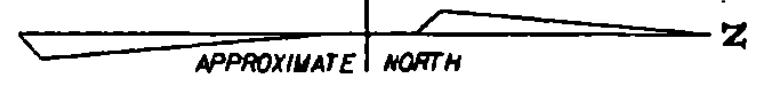
NOT TO SCALE

EXISTING SIGNS VII		MM 06.010 TO MM 06.690 - (BERLIN)	
		SURVEYED BY	SJB/JHF DATE 9/93
		DRAWN BY	SAM DATE 9/93
		SQUAD LEADER	SJB
		DESIGN FILE NO.	
		IPARM FILE	DATE PLOTTED
		PROJ. NAME	NORTHFIELD-BERLIN
		PROJ. NO.	STP SIGN 9467
		SHEET 8 OF 38 SHEETS	

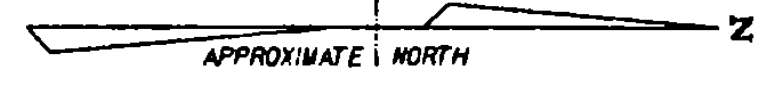
FILE NAME: Q:\VTS-2\WFILE7.DWG : DATE: 1994-07-11



BEGIN PROJECT
MM 05.266 (NORTHFIELD)



NOTE:
THIS ROAD WAS FOUND IN THE
FIELD AT 05.617 BUT IT WAS
NOT FOUND ON THE ROUTE LOGS.



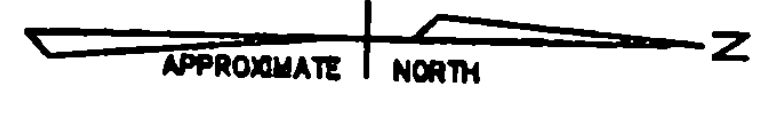
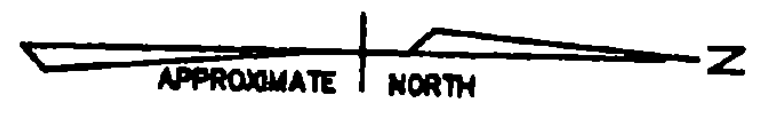
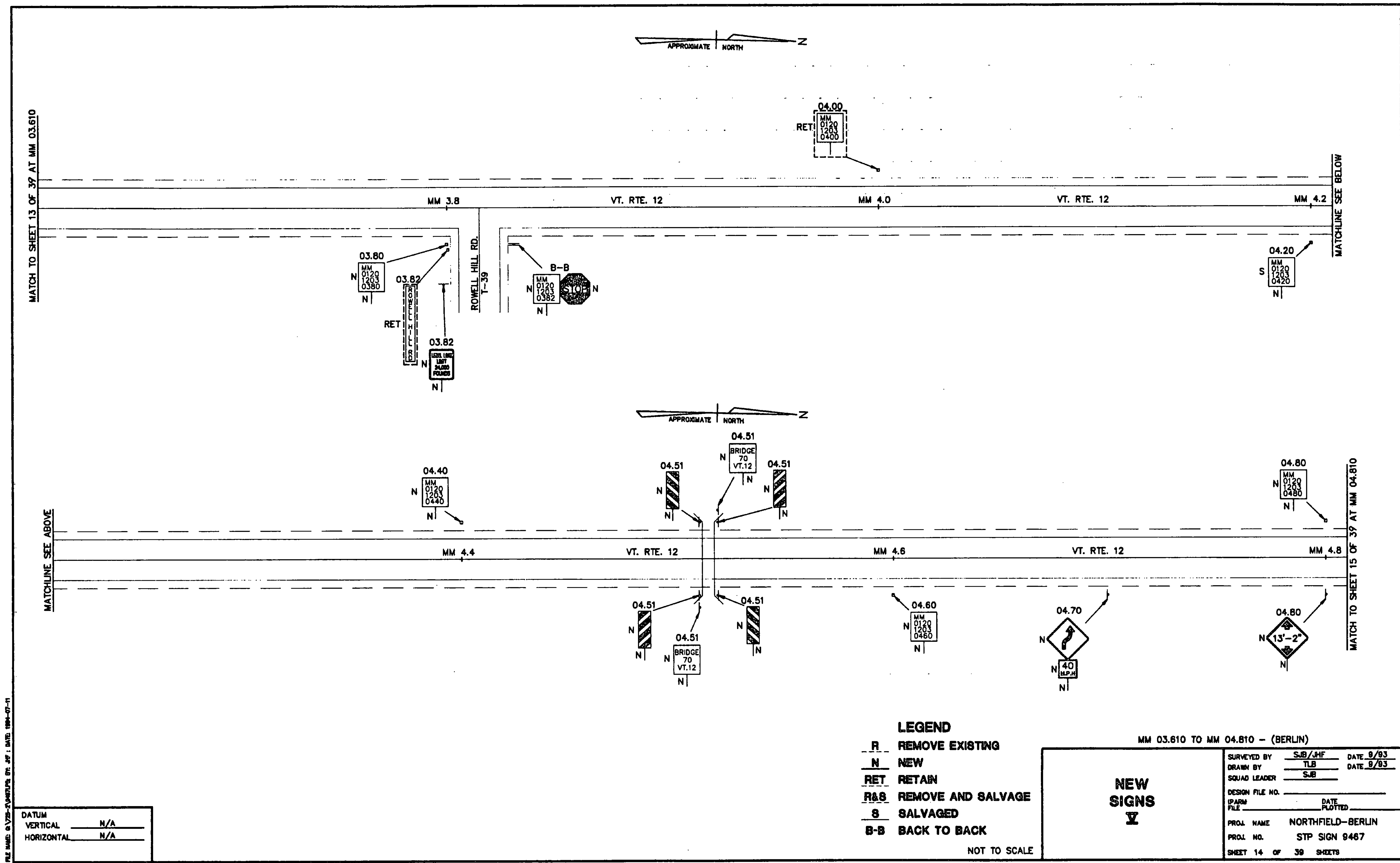
NOTE:
MILE MARKER LOCATIONS FOR NORTHFIELD
ARE BASED ON BRIDGE 61 @ MM 05.055

MILE MARKER LOCATIONS FOR BERLIN
ARE BASED ON BRIDGE 64 @ MM 0.799

LEGEND
 R REMOVE EXISTING
 N NEW
 RET RETAIN
 RAS REMOVE AND SALVAGE
 S SALVAGED
 B-B BACK TO BACK

NOT TO SCALE

MM 05.266 TO MM 06.262 - (NORTHFIELD)	
MM 00.000 TO MM 00.100 - (BERLIN)	
SURVEYED BY	DATE
DRAWN BY	DATE
SQUAD LEADER	DATE
DESIGN FILE NO.	FILE
FILE	FILE
PROJ. NAME	STP SIGN
SHEET 10 OF 39 SHEETS	



- LEGEND**
- R** REMOVE EXISTING
 - N** NEW
 - RET** RETAIN
 - R&S** REMOVE AND SALVAGE
 - S** SALVAGED
 - B-B** BACK TO BACK

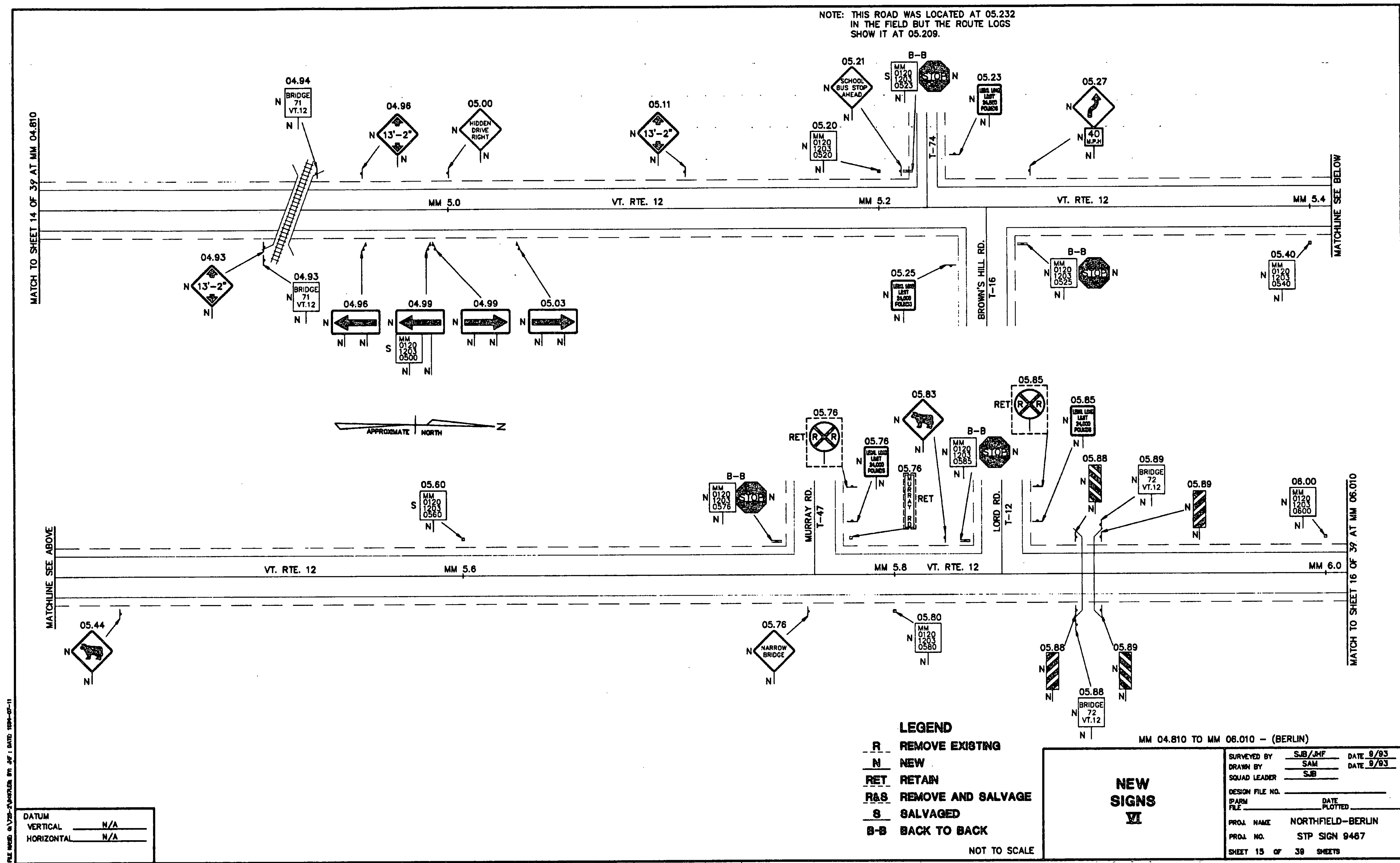
MM 03.810 TO MM 04.810 - (BERLIN)

NEW SIGNS V	SURVEYED BY	SJB/JHF	DATE	9/93
	DRAWN BY	TLB	DATE	9/93
	SQUAD LEADER	SJB		
	DESIGN FILE NO.			
	IPARM FILE		DATE PLOTTED	
PROJ. NAME		NORTHFIELD-BERLIN		
PROJ. NO.		STP SIGN 9467		
SHEET 14 OF 39		SHEETS		

NOT TO SCALE

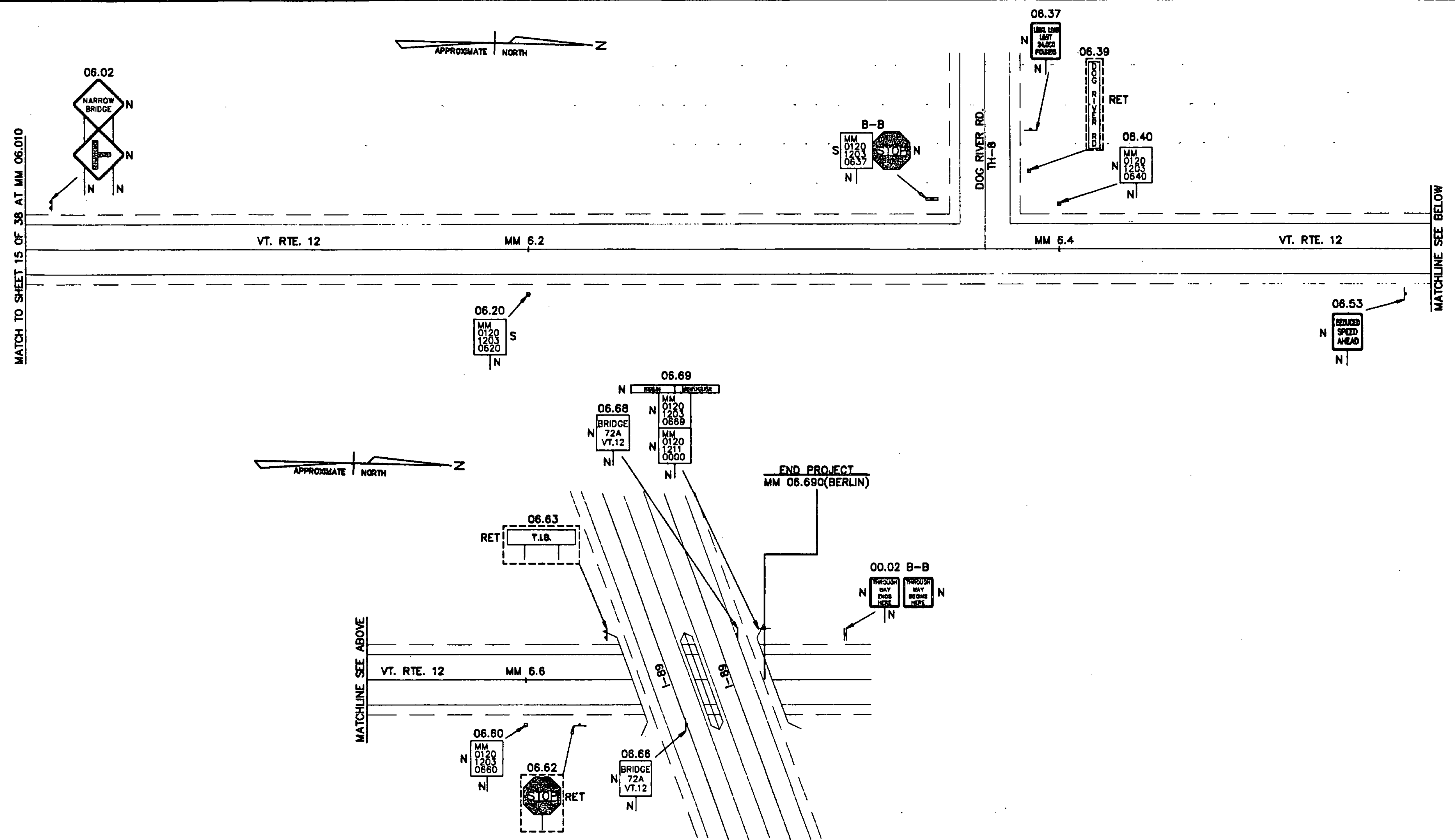
FILE NAME: 01725-20000725.DWG : DATE: 08-04-97-11

DATUM	
VERTICAL	N/A
HORIZONTAL	N/A



FILE NAME: 0120-1203-0600.DWG DATE: 08-07-93

DATUM
VERTICAL N/A
HORIZONTAL N/A



LEGEND

R REMOVE EXISTING
N NEW
RET RETAIN
R&S REMOVE AND SALVAGE
S SALVAGED
B-B BACK TO BACK

NOT TO SCALE

**NEW
SIGNS
VII**

MM 06.010 TO MM 06.690 - (BERLIN)

SURVEYED BY	SJB/JHF	DATE	9/93
DRAWN BY	TLB	DATE	9/93
SQUAD LEADER	SJB		
DESIGN FILE NO.		DATE	
FILE		PLOTTED	
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9487		
SHEET 16 OF 38	SHEETS		

[illegible]

TRAFFIC SIGN SUMMARY SHEET																											
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NEW SIGN POSTS															REMARKS	SIGN DETAIL		
			"A"	"B"	SALV. SIGN	SALV. T.J.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTG. SIZE		SIGN FRAME		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER	
										1.12	2.0	3.0	3.0"Ø	4.0"Ø	FOUND- ATION	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	24"					30"
	VT. RTE. 12 NORTFIELD																										
05.77 RT.		24" X 30"	5							1			X														E-142
05.80 RT.		24" X 30"	5							1			X														E-141
05.80 RT.	 	30" X 30"	6.3		1					1			X												SALVAGED FROM 05.80 RT. BACK TO BACK		E-143
05.86 RT.		24" X 24"	4							1			X												INSTALL SIGNS MINIMUM OF 10 FEET IN FRONT OF UTILITY POLE		E-143
		24" X 12"	2							1			X														E-143
05.87 RT.					1					1			X												SALVAGED FROM 05.87 RT.		
05.87 RT.		24" X 30"	5							1			X														E-141
05.87 RT.	 	30" X 30"	6.3		1					1			X														E-141
05.88 LT.	 	6" X 8" 30" X 30"	.3 6.3							1			X												SALVAGED FROM 05.88 LT. BACK TO BACK		E-143
05.88 LT.		24" X 30"	5							1			X														E-141
05.88 RT.		6" X 8"	.3																						MOUNTED ON RETAINED POST		E-134
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S "SIGN POST DESIGN GUIDELINE".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.				LBS.	EA.	EA.		
TOTALS			45.5		3					353																	
TRAFFIC SIGN SUMMARY SHEET DRAWN BY: JHK DATE: 11/29/95 SQUAD LEADER: _____ DESIGN FILE NO.: NORTHFIELD.DGN IPARM: _____ DATE: _____ FILE: NORTHFD5.1 PLOTTED: _____ PROJ. NAME: NORTHFIELD-BERLIN PROJ. NO.: STP SIGN 9467 SHEET 18 OF 39 SHEETS																											

TRAFFIC SIGN SUMMARY SHEET

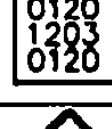
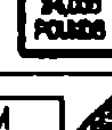
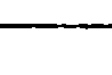
[illegible]

[illegible]

TRAFFIC SIGN SUMMARY SHEET																													
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		F.T.C. SIZE		SIGN FRAME	REMARKS	SIGN DETAIL			
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.		1.12	2.0	3.0	3.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	24"	30"	DETAIL ON SHEET NUMBER			STD. SHEET NUMBER			
	VT. RTE. 12 NORTHFIELD																												
06.20 RT.		6" x 8"	.3						1	X																		E-138	
06.22 RT.		24" x 30"	5						1			X															E-141		
06.22 LT.		30" x 18"	3.8						1			X															E-1288		
06.22 RT.		6" x 8" 30" x 30"	.3 6.3						1			X													BACK TO BACK		E-138 E-143		
06.26 RT.		60" x 7 1/2"	3.1																								E-124		
		6" x 8"	.3																								E-138		
		6" x 8"	.3						1			X													SALVAGED FROM 06.26 RT.				
	VT. RTE. 12 BERLIN																												
00.02 LT.		24" x 30"	5						1			X															E-142		
00.11 RT.		30" x 30"	6.3						1			X														35			
00.19 LT.		30" x 30"	6.3																							35			
		30" x 30"	6.3						2			X													THINNING & TRIMMING	35			
00.20 RT.		6" x 8"	.3						1	X																	E-138		
00.22 RT.		6" x 8"	.3						1	X																	E-134		
00.22 LT.		6" x 8"	.3						1	X																	E-134		
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.			LBS.	EA.	EA.			TRAFFIC SIGN SUMMARY SHEET V		DRAWN BY <u>SAM</u> DATE <u>11/83</u> SQUAD LEADER <u>SB</u> DESIGN FILE NO. _____ IPARM FILE _____ PROJ. NAME <u>NORTHFIELD-BERLIN</u> PROJ. NO. <u>STP SIGN 9487</u> SHEET <u>21</u> OF <u>39</u> SHEETS.
TOTALS			44.2							388																			

PLS. MAKE A 1/2" X 1/2" HOLE IN THE TOP OF THE SIGN POST AT THE LOCATION OF THE SIGN. DATE: 11-83-83

TRAFFIC SIGN SUMMARY SHEET																												
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NEW SIGN POSTS															REMARKS	SIGN DETAIL			
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTG. SIZE		SIGN FRAME		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER		
										1.12	2.0	3.0	3.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	24"	30"						
	VT. RTE. 12 BERLIN																											
00.35 LT.		30" x 30"	6.3						1			X													36			
00.40 LT.		6" x 8"	.3						1	X															E-138			
00.79 RT.		24" x 30"	5						1			X													E-141			
00.79 RT.		6" x 8" 30" x 30"	.3 6.3						1			X													E-138 E-143			
00.80 RT.		6" x 8"	.3						1	X															E-134			
00.80 LT.		6" x 8"	.3						1	X															E-138			
00.80 LT.		6" x 8"	.3						1	X															E-134			
00.84 RT.		30" x 30"	6.3						1			X													36			
00.95 RT.		6" x 8"	.3						1	X															E-134			
00.95 LT.		6" x 8"	.3						1	X															E-134			
00.96 RT.		30" x 30"	6.3						1			X													36			
01.00 RT.		6" x 8"	.3						1	X															E-138			
01.02 LT.		30" x 30"	6.3		1				1			X													SALVAGED FROM 01.02 LT. BACK TO BACK			
01.02 LT.		24" x 30"	5						1			X													35			
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.				LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET VI		
TOTALS			43.9		1					350																	DRAWN BY SQUAD LEADER DESIGN FILE NO. FILE DATE PROJ. NAME NORTHFIELD-BERLIN PROJ. NO. STP SIGN 9487 SHEET 22 OF 39 SHEETS	

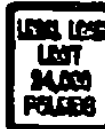
TRAFFIC SIGN SUMMARY SHEET																														
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		FTG. SIZE		SIGN FRAME	REMARKS	SIGN DETAIL				
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.		1.12	2.0	3.0	3.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	24"	30"	DETAIL ON SHEET NUMBER			STD. SHEET NUMBER				
	VT. RTE. 12 BERLIN																													
01.06 RT.		24" X 30"	5						1			X																	E-141	
01.06 RT.		6" x 8" 30" x 30"	.3 6.3						1			X													BACK TO BACK			E-138 E-143		
01.09 RT.		24" X 24"	4																									E-143		
		24" X 12"	2						1			X																E-140		
01.14 RT.		24" X 24"	4						1			X																E-143		
01.15 LT.		30" X 30"	6.3						1			X														36				
01.18 RT.		24" X 24"	4						1			X																E-143		
01.20 LT.		6" x 8"	.3						1	X																		E-138		
01.21 RT.		30" X 30"	6.3						1			X														35				
01.23 RT.		24" X 30"	5						1			X																E-141		
01.23 RT.		6" x 8" 30" X 30"	.3 6.3						1			X													BACK TO BACK			E-138 E-143		
01.23 RT.		24" X 24"	4																									E-143		
		24" X 12"	2						1			X																E-140		
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ".			SF.	SF.	EA.	SF.			LBS.		LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.			LBS.	EA.	EA.			TRAFFIC SIGN SUMMARY SHEET VII		DRAWN BY <u>SAM</u> DATE <u>11/83</u> SQUAD LEADER <u>SA</u> DESIGN FILE NO. _____ FILE _____ DATE PLOTTED _____ PROJ. NAME <u>NORTHFIELD-BERLIN</u> PROJ. NO. <u>STP SIGN 9467</u> SHEET <u>23</u> OF <u>39</u> SHEETS	
TOTALS			56.1						428																					

FILE MADE @ VTS-SPRINTSP; BY: JAF; DATE: 11-07-12

TRAFFIC SIGN SUMMARY SHEET																														
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		FTG. SIZE		SIGN FRAME	REMARKS	SIGN DETAIL				
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.		1.12	2.0	3.0	3.0" x 4.0"	4.0" x 4.0"	3" x 3"	3.5" x 3"	4.0" x 3"	5.0" x 3"	POST SIZE	WEIGHT	24"	30"	DETAIL ON SHEET NUMBER			STD. SHEET NUMBER				
	VT. RTE. 12 BERLIN																													
01.40 RT.		24" X 30"	5																									E-142		
					1			1			X															SALVAGED FROM 01.41 RT.				
01.46 RT.		30" X 18"	3.8					1			X																	E-128B		
01.51 RT.		24" X 30"	5					1			X																	E-142		
01.51 LT.		24" X 30"	5					1			X																	E-142		
01.57 LT.		30" X 30"	6.3																								35			
		30" X 30"	6.3					2			X																36			
01.60 LT.		6" X 8"	.3					1	X																			E-138		
01.71 RT.		24" X 30"	5					1			X																	E-142		
01.71 LT.		24" X 30"	5					1			X																	E-142		
01.76 LT.		6" x 8" 30" x 30"	.3 6.3					1			X															BACK TO BACK		E-138 E-143		
01.76 LT.		30" X 30"	6.3					1			X																	E-143		
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.			LBS.	EA.	EA.			TRAFFIC SIGN SUMMARY SHEET VIII		DRAWN BY <u>SAM</u> DATE <u>11/83</u> SQUAD LEADER <u>SCB</u> DESIGN FILE NO. _____ FILE _____ PROJ. NAME <u>NORTHFIELD-BERLIN</u> PROJ. NO. <u>STP SIGN 9467</u> SHEET <u>24</u> OF <u>30</u> SHEETS	
TOTALS			54.8		1					428																				

FILED 01/20/83 BY: JF : DATE: 01/20/83

[illegible]

TRAFFIC SIGN SUMMARY SHEET																											
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NO. OF POSTS	NEW SIGN POSTS															REMARKS	SIGN DETAIL	
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.		FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL				W-SHAPE STEEL		FTG. SIZE		SIGN FRAME	DETAIL ON SHEET NUMBER		STD. SHEET NUMBER	
									1.12	2.0	3.0	3.0"ø	4.0"ø	4.0"ø	3"ø	3.5"ø	4.0"ø	5.0"ø	POST SIZE	WEIGHT	24"	30"					
	VT. RTE. 12 BERLIN																										
02.01 RT.		24" x 30"	5						1			X														E-141	
02.01 LT.		6" x 8" 30" x 30"	.3 6.3						1			X													BACK TO BACK	E-138 E-143	
02.01 LT.		24" x 30"	5						1			X														E-141	
02.01 RT.		6" x 8" 30" x 30"	.3 6.3						1			X													BACK TO BACK	E-138 E-143	
02.02 RT.		12" x 36"	3						1			X														E-120	
02.02 LT.		12" x 36"	3						1			X														E-120	
02.05 RT.		12" x 36"	3						1			X														E-120	
02.05 LT.		12" x 36"	3						1			X														E-120	
02.06 RT.		30" x 30"	6.3						1			X														36	
02.17 LT.		30" x 30"	6.3						1			X														35	
02.19 RT.		30" x 30"	6.3						1			X														38	
02.20 RT.		6" x 8"	.3						1	X																E-138	
02.22 LT.		30" x 30"	6.3						1			X														38	
02.25 LT.		36" DIA.	7.1						1			X														E-190	
02.30 LT.		30" x 30"	6.3						1			X														E-143	
02.30 LT.		18" x 24"	3						1			X														E-150	
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.		LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET X		DRAWN BY SQUAD LEADER DESIGN FILE NO. IPARM FILE PROJ. NAME PROJ. NO. SHEET 26 OF 39 SHEETS	DATE DATE DATE NORTHFIELD-BERLIN STP SIGN 9467
TOTALS			77.1							638																	

FILE NAME: 01720-SUMMARY.BIT : APP 1 DATED: 10-24-07-13

TRAFFIC SIGN SUMMARY SHEET																												
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NO. OF POSTS	NEW SIGN POSTS										REMARKS	SIGN DETAIL							
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.		FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL						W-SHAPE STEEL		FTG. SIZE		SIGN FRAME	DETAIL ON-SHEET NUMBER	STD. SHEET NUMBER	
									1.12	2.0	3.0	3.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	24"	30"							
	VT. RTE. 12 BERLIN																											
02.30 LT.		18" x 24"	3						1			X															E-150	
02.31 LT.		6" x 8" 30" x 30"	.3 6.3						1			X													BACK TO BACK		E-138 E-143	
02.31 LT.		24" x 30"	5						1			X															E-141	
02.32 LT.		18" x 24"	3						1			X															E-150	
02.32 LT.		18" x 24"	3						1			X															E-150	
02.34 LT.		18" x 24"	3						1			X															E-150	
02.34 LT.		18" x 24"	3						1			X															E-150	
02.40 LT.					1				1	X															SALVAGED FROM 02.41 LT.			
02.45 RT.		24" x 30"	5						1			X															E-142	
02.45 LT.		24" x 30"	5						1			X															E-142	
02.48 LT.		30" x 30"	6.3						1			X														36		
02.55 LT.		6" x 8" 30" x 30"	.3 6.3						1			X													BACK TO BACK		E-138 E-143	
02.55 LT.		24" x 30"	5						1			X															E-141	
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ". TOTALS			SF. 54.5	SF.	EA. 1	SF.				LBS. 512	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.		LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET XI			DRAWN BY SQUAD LEADER DESIGN FILE NO. FILE DATE PROJ. NAME NORTHFIELD-BERLIN PROJ. NO. STP SIGN 9487 SHEET 27 OF 39 SHEETS	

FILE NAME: C:\VTS-24\787811.DWG : DATE: 10-04-07-12

TRAFFIC SIGN SUMMARY SHEET																												
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NEW SIGN POSTS																REMARKS	SIGN DETAIL		
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		FTG. SIZE		SIGN FRAME		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER	
										1.12	2.0	3.0	3.0"Ø	4.0"Ø	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT	24"	30"						
	VT. RTE. 12 BERLIN																											
02.58 RT.		12" x 36"	3							1			X														E-120	
02.58 RT.		6" X 8"	.3							1	X																E-134	
02.58 LT.		12" x 36"	3							1			X														E-120	
02.58 RT.		12" x 36"	3							1			X														E-120	
02.58 LT.		12" x 36"	3							1			X														E-120	
02.58 LT.		6" X 8"	.3							1	X																E-134	
02.60 RT.		6" X 8"	.3							1	X																E-138	
02.65 RT.		24" X 30"	5							1			X														E-142	
02.65 LT.		24" X 30"	5							1			X														E-142	
02.71 LT.		30" X 18"	3.8							1			X														E-128B	
02.77 LT.		24" X 30"	5							1			X														E-142	
02.80 LT.					1					1	X														SALVAGED FROM 02.79 LT.			
02.96 LT.		30" X 30"	6.3																							35		
		30" X 30"	6.3							2			X													38		
03.00 RT.					1					1	X														SALVAGED FROM 03.00 LT.			
03.20 LT.		6" X 8"	.3							1	X																E-138	
03.27 LT.		6" x 8" 30" x 30"	.3 6.3							1			X												BACK TO BACK		E-138 E-143	
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ". TOTALS			SF. 51.2	SF.	EA. 2	SF.				LBS. 510	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.				LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET XII		DRAWN BY SQUAD LEADER DESIGN FILE NO. IPARM FILE DATE PLOTTED PROJ. NAME NORTHFIELD-BERLIN PROJ. NO. STP SIGN 9487 SHEET 28 OF 39 SHEETS

TRAFFIC SIGN SUMMARY SHEET																													
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NEW SIGN POSTS																REMARKS	SIGN DETAIL			
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		FTG. SIZE		SIGN FRAME		DETAIL ON SHEET NUMBER	STD. SHEET NUMBER		
										1.12	2.0	3.0	3.0"x	4.0"x	3"x	3.5"x	4.0"x	5.0"x	POST SIZE	WEIGHT	24"	30"							
	VT. RTE. 12 BERLIN																												
03.27 LT.	[Sign Legend]	24" x 30"	5						1		X																E-141		
03.31 RT.	[Sign Legend]	6" x 8"	.3						1	X																E-134			
03.31 LT.	[Sign Legend]	6" x 8"	.3						1	X																E-134			
03.52 RT.	[Sign Legend]	24" x 30"	5						1		X															E-141			
03.52 RT.	[Sign Legend] [STOP]	6" x 8" 30" x 30"	.3 6.3						1		X														BACK TO BACK	E-138 E-143			
03.60 LT.	[Sign Legend]				1				1	X															SALVAGED FROM 03.59 RT.				
03.80 RT.	[Sign Legend]	6" x 8"	.3						1	X																E-138			
03.82 RT.	[Sign Legend]	24" x 30"	5						1		X															E-141			
03.82 RT.	[Sign Legend] [STOP]	6" x 8" 30" x 30"	.3 6.3						1		X														BACK TO BACK	E-138 E-143			
04.20 RT.	[Sign Legend]				1				1	X															SALVAGED FROM 04.19 LT.				
04.40 LT.	[Sign Legend]	6" x 8"	.3						1	X																E-138			
04.51 RT.	[Sign Legend]	12" x 36"	3						1		X															E-120			
04.51 RT.	[Sign Legend]	6" x 8"	.3						1	X																E-134			
04.51 LT.	[Sign Legend]	12" x 36"	3						1		X															E-120			
04.51 RT.	[Sign Legend]	12" x 36"	3						1		X															E-120			
04.51 LT.	[Sign Legend]	12" x 36"	3						1		X															E-120			
04.51 LT.	[Sign Legend]	6" x 8"	.3						1	X																E-134			
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ". TOTALS			SF. 42	SF. 	EA. 2	SF. 			LBS. 	LBS. 	LBS. 	LBS. 	LBS. 	EA. 	LBS. 	LBS. 	LBS. 	LBS. 		LBS. 	EA. 	EA. 	TRAFFIC SIGN SUMMARY SHEET XIII		DRAWN BY SQUAD LEADER DESIGN FILE NO. IPARM FILE _____ DATE PLOTTED _____	DATE 11/83	PROJ. NAME NORTHFIELD-BERLIN PROJ. NO. STP SIGN 9467 SHEET 29 OF 39 SHEETS		

TRAFFIC SIGN SUMMARY SHEET																											
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NO. OF POSTS	NEW SIGN POSTS					TUBULAR STEEL				W-SHAPE STEEL		FTR. SIZE		SIGN FRAME	REMARKS	SIGN DETAIL		
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.		FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		3"	3.5"	4.0"	5.0"	POST SIZE	WEIGHT	24"	30"			DETAIL ON SHEET NUMBER	STD. SHEET NUMBER	
										1.12	2.0	3.0	3.0"	4.0"													
	VT. RTE. 12 BERLIN																										
04.60 RT.		6" x 8"	.3						1	X																	E-138
04.70 RT.		30" x 30"	6.3																						36		
		18" x 18"	2.3						1			X														E-152	
04.80 RT.		30" x 30"	6.3						1			X													37		
04.80 LT.		6" x 8"	.3						1	X																E-138	
04.93 RT.		30" x 30"	6.3						1			X													37		
04.93 RT.		6" x 8"	.3						1	X																E-134	
04.94 RT.		6" x 8"	.3						1	X																E-134	
04.96 RT.		48" x 24"	8						2			X														E-152	
04.96 LT.		30" x 30"	6.3						1			X													37		
04.99 RT.		48" x 24"	8																							E-152	
					1				2			X													SALVAGED FROM 04.99 RT.		
04.99 RT.		48" x 24"	8						2			X														E-152	
05.00 LT.		30" x 30"	6.3						1			X													35		
05.03 RT.		48" x 24"	8						2			X														E-152	
05.11 LT.		30" x 30"	6.3						1			X													37		
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ".			SF.	SF.	EA.	SF.				LBS.	LBS.	LBS.	LBS.	LBS.	EA.	LBS.	LBS.	LBS.	LBS.		LBS.	EA.	EA.	TRAFFIC SIGN SUMMARY SHEET XIV		DRAWN BY <u>SAM</u> DATE <u>11/83</u> SQUAD LEADER <u>SJB</u> DESIGN FILE NO. _____ IPARM FILE _____ DATE PLOTTED _____ PROJ. NAME <u>NORTHFIELD-BERLIN</u> PROJ. NO. <u>STP SIGN 9467</u> SHEET <u>30</u> OF <u>39</u> SHEETS	
TOTALS			73.3		1					620																	

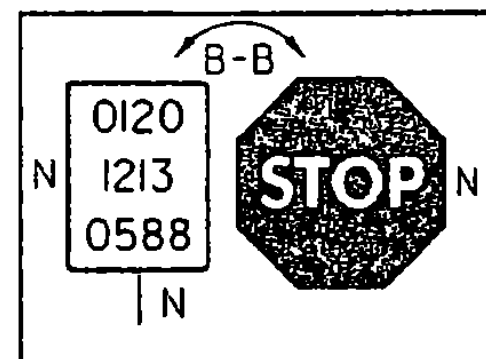
RED INKED 01/28/84 BY J. DATE 10/01/83

TRAFFIC SIGN SUMMARY SHEET																																	
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS						EXIST. POSTS		NEW SIGN POSTS																	REMARKS	SIGN DETAIL				
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		F.T.G. SIZE		SIGN FRAME	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER							
										1.12	2.0	3.0	3.0"x	4.0"x	FOUND - X INE	3"x	3.5"x	4.0"x	5.0"x	POST SIZE	WEIGHT	24"	30"										
	VT. RTE. 12 BERLIN																																
05.20 LT.		6" x 8"	.3							1	X																				E-138		
05.21 LT.		30" x 30"	6.3							1			X																	35			
05.23 LT.		30" x 30"	6.3		1					1			X												SALVAGED FROM 05.21 LT. BACK TO BACK				E-143				
05.23 LT.		24" x 30"	5							1			X																		E-141		
05.25 RT.		24" x 30"	5							1			X																		E-141		
05.25 RT.		6" x 8" 30" x 30"	.3 6.3							1			X												BACK TO BACK				E-138 E-143				
05.27 LT.		30" x 30"	6.3																										36				
		18" x 18"	2.3							1			X																		E-152		
05.40 RT.		6" x 8"	.3							1	X																				E-138		
05.44 RT.		30" x 30"	6.3							1			X																38				
05.60 LT.					1					1	X														SALVAGED FROM 05.60 RT.								
05.76 RT.		30" x 30"	6.3							1			X																35				
05.76 LT.		6" x 8" 30" x 30"	.3 6.3							1			X												BACK TO BACK				E-138 E-143				
05.76 LT.		24" x 30"	5							1			X																		E-141		
05.80 RT.		6" x 8"	.3							1	X																				E-138		
05.83 LT.		30" x 30"	6.3							1			X																38				
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ". TOTALS			SF. 89.2	SF.	EA. 2	SF.					LBS. 	LBS. 	LBS. 	LBS. 	LBS. 	EA. 	LBS. 	LBS. 	LBS. 	LBS. 	LBS. 					LBS. 	EA. 	EA. 	TRAFFIC SIGN SUMMARY SHEET XX			DRAWN BY _____ DATE 11/83 SQUAD LEADER _____ DESIGN FILE NO. _____ FILE _____ DATE PLOTTED _____ PROJ. NAME NORTHFIELD-BERLIN PROJ. NO. STP SIGN 9467 SHEET 31 OF 38 SHEETS	

FILE NAME: G:\725-2\90675116 ST : 58 ; DATE: 1994-07-12

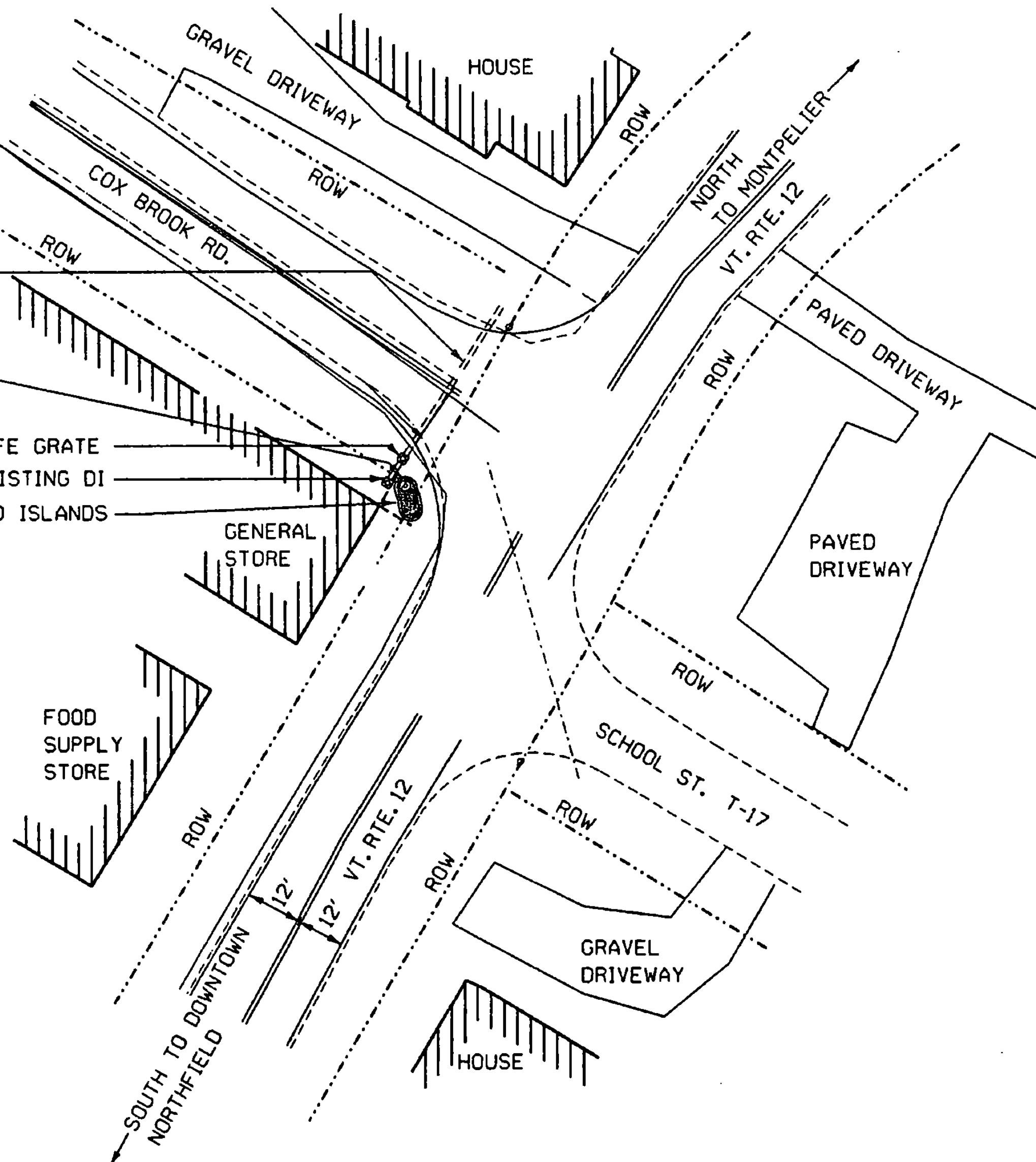
TRAFFIC SIGN SUMMARY SHEET																												
MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	NEW AND SALVAGED SIGNS				EXIST. POSTS		NEW SIGN POSTS																REMARKS	SIGN DETAIL		
			"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	SALV.	NO. OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM		TUBULAR STEEL					W-SHAPE STEEL		FTG. SIZE		DETAIL ON SHEET NUMBER		STD. SHEET NUMBER		
									1.12	2.0	3.0	3.0"x	4.0"x	ROUND X-PIPE	3"x	3.5"x	4.0"x	5.0"x	POST SIZE	WEIGHT	24"	30"	SIGN FRAME					
	VT. RTE. 12 BERLIN																											
05.85 LT.		6" x 8" 30" x 30"	.3 6.3						1		X														BACK TO BACK	E-138 E-143		
05.85 LT.		24" x 30"	5						1		X														E-141			
05.88 RT.		12" x 36"	3						1		X														E-120			
05.88 RT.		6" x 8"	.3						1	X															E-134			
05.88 LT.		12" x 36"	3						1		X														E-120			
05.89 RT.		12" x 36"	3						1		X														E-120			
05.89 LT.		12" x 36"	3						1		X														E-120			
05.89 LT.		6" x 8"	.3						1	X															E-134			
06.00 LT.		6" x 8"	.3						1	X															E-138			
06.02 LT.		30" x 30"	6.3																					35				
		30" x 30"	6.3						2		X													37				
06.20 RT.					1				1	X															SALVAGED FROM 06.20 LT.			
06.37 LT.		30" x 30"	6.3		1				1		X														SALVAGED FROM 06.37 LT. BACK TO BACK	E-143		
06.37 LT.		24" x 30"	5						1		X														E-141			
06.40 LT.		6" x 8"	.3						1	X															E-138			
06.53 RT.		24" x 30"	5						1		X														E-142			
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE TRAFFIC & SAFETY DIVISION'S " SIGN POST DESIGN GUIDELINE ". TOTALS			SF. 53.7	SF. 	EA. 2	SF. 				LBS. 	LBS. 	LBS. 	LBS. 	LBS. 	EA. 	LBS. 	LBS. 	LBS. 	LBS. 				LBS. 	EA. 	EA. 	TRAFFIC SIGN SUMMARY SHEET XXI		DRAWN BY SAM DATE 11/83 SQUAD LEADER SH DESIGN FILE NO. _____ DATE PLOTTED _____ PROJ. NAME NORTHFIELD-BERLIN PROJ. NO. STP SIGN 9467 SHEET 32 OF 38 SHEETS

[illegible]

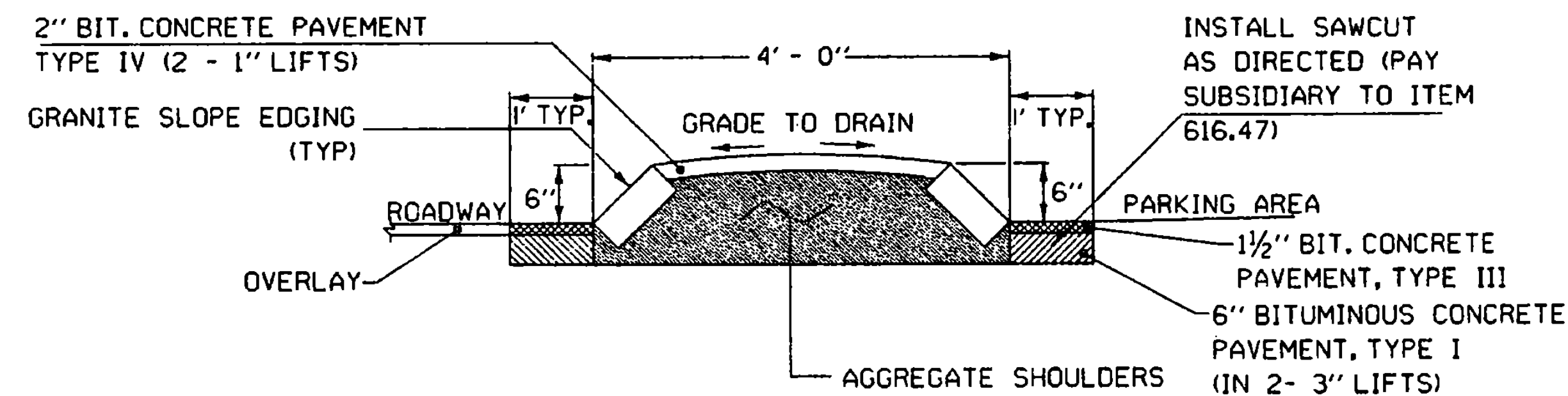
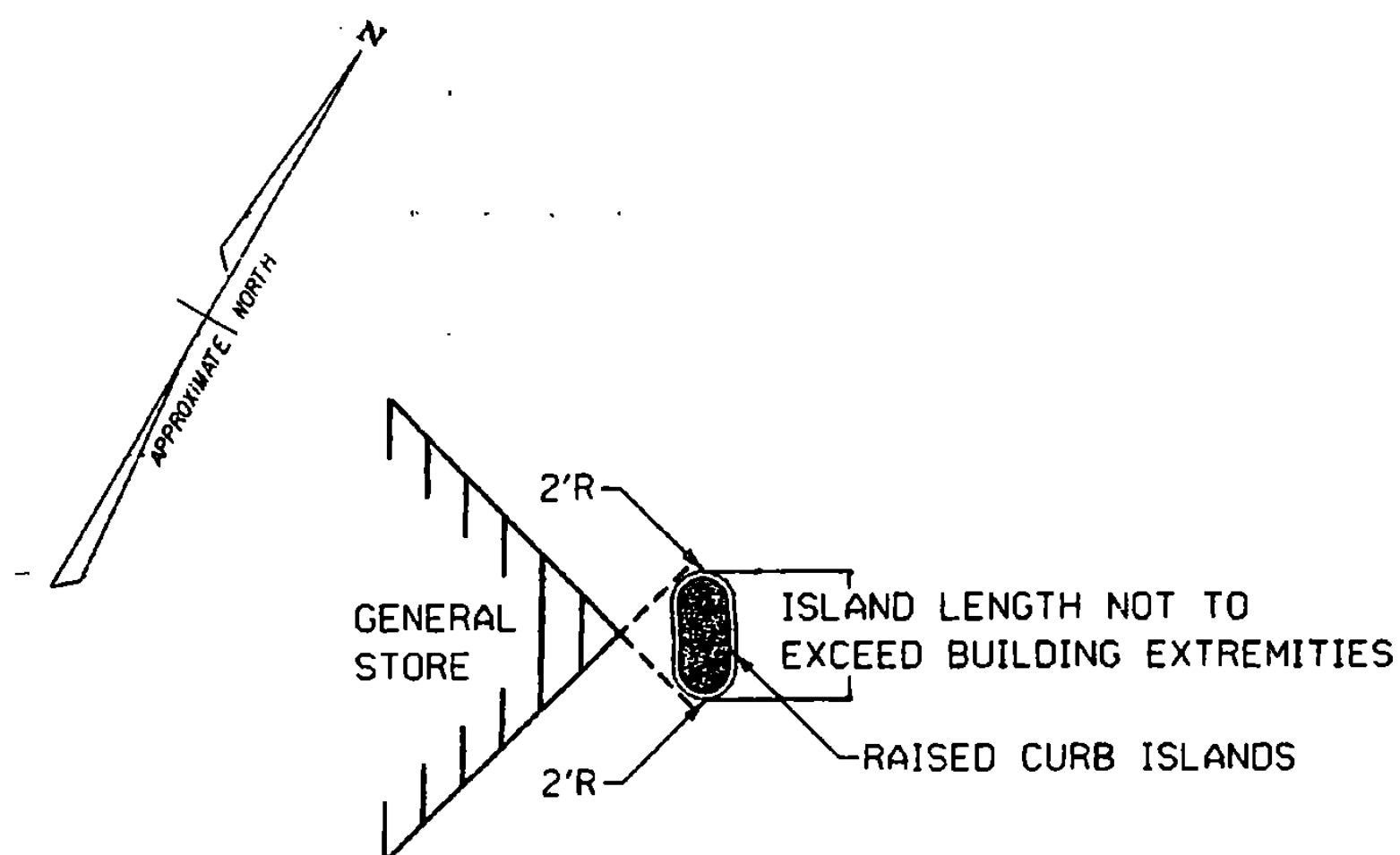


CONSTRUCT NEW DI.
PROVIDE BICYCLE SAFE GRATE
REMOVE EXISTING DI
PROPOSED RAISED CURBED ISLANDS

EXISTING 12" DRAIN



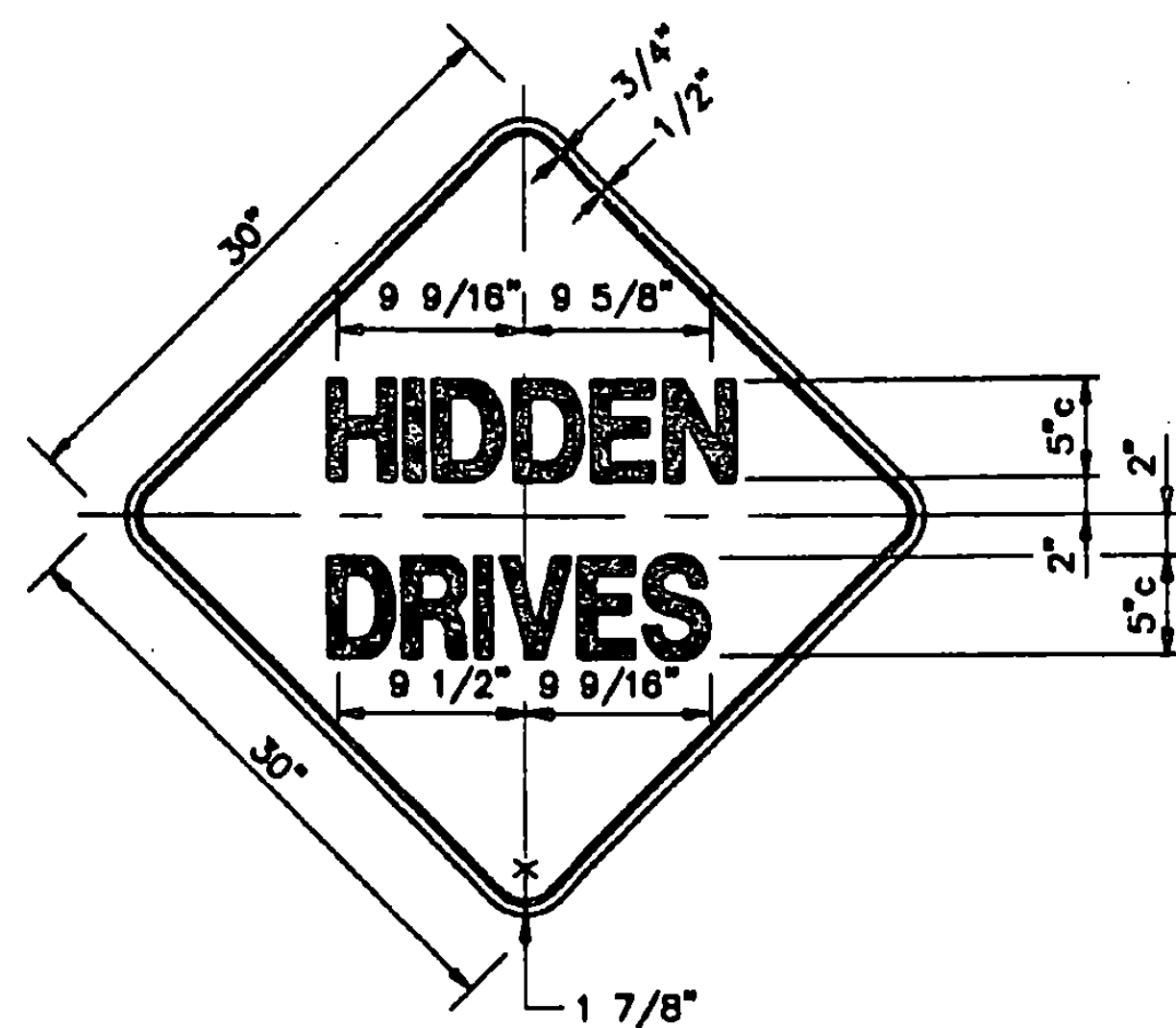
INTERSECTION PLAN
SCALE: 1"=20'



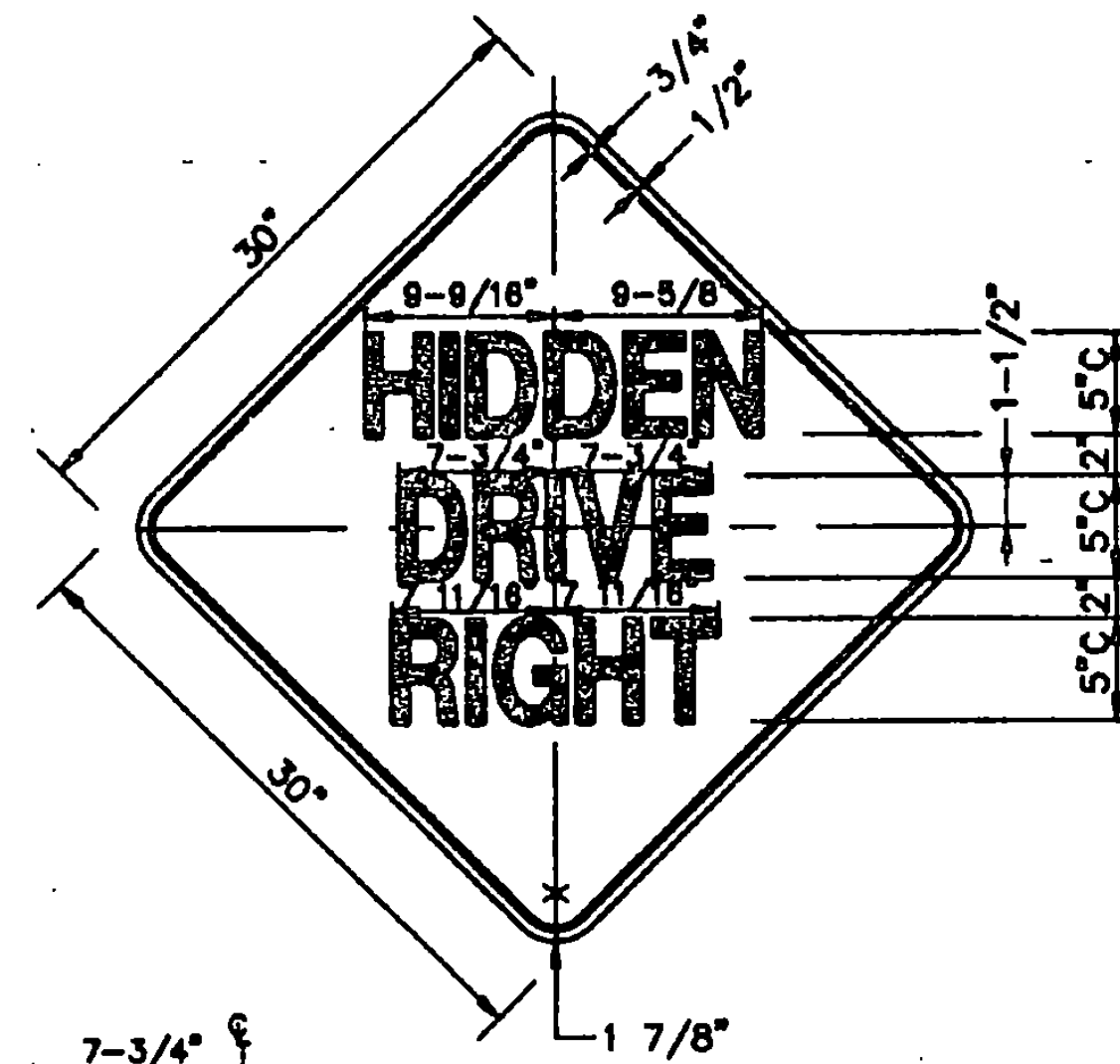
NOTE: ALL EXCAVATION WILL BE
AS DIRECTED BY THE RESIDENT
ENGINEER.

SECTION A -A
CURBED ISLAND DETAIL
N.T.S.

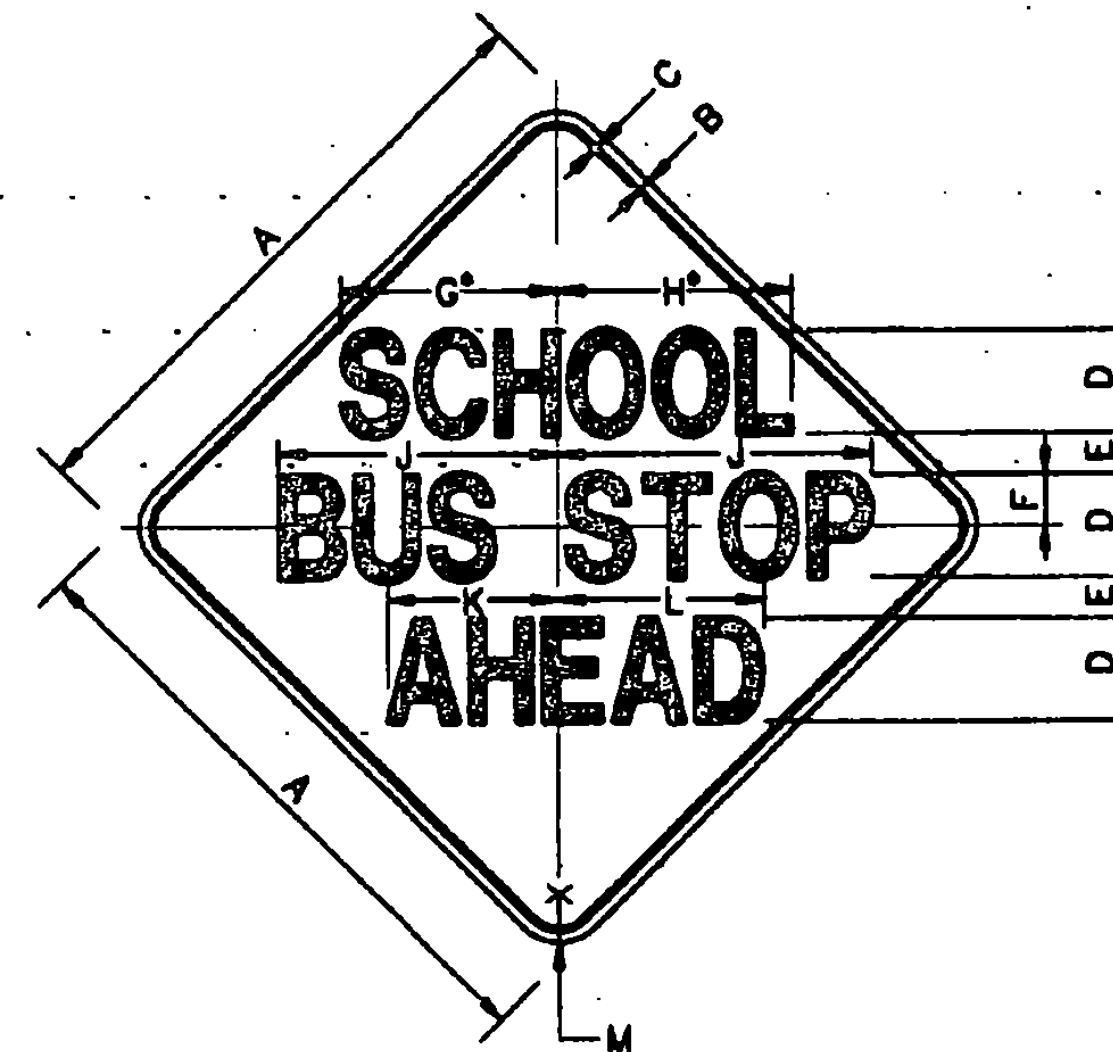
INTERSECTION DETAILS	SURVEYED BY	DATE
	DRAWN BY	DATE
	SQUAD LEADER	DATE
	DESIGN FILE NO.	DATE
	FILE	
	PROJ. NAME	
	STP SIGN 9467	
	SHEET	OF SHEETS



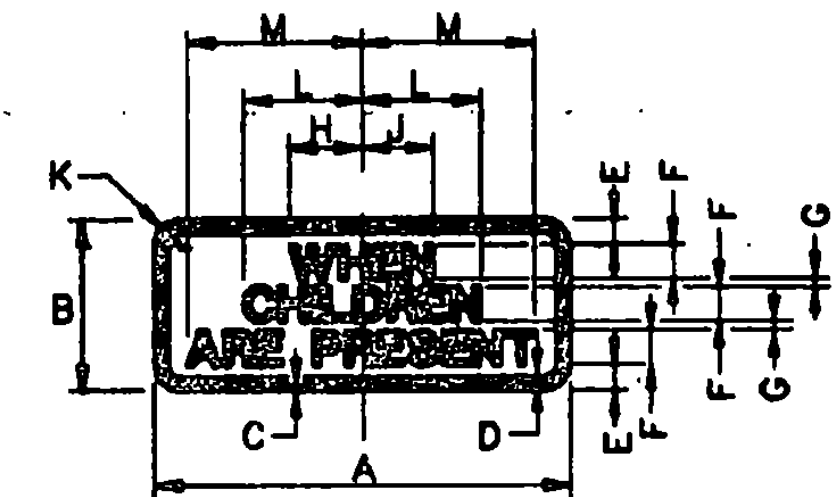
COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151



COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151



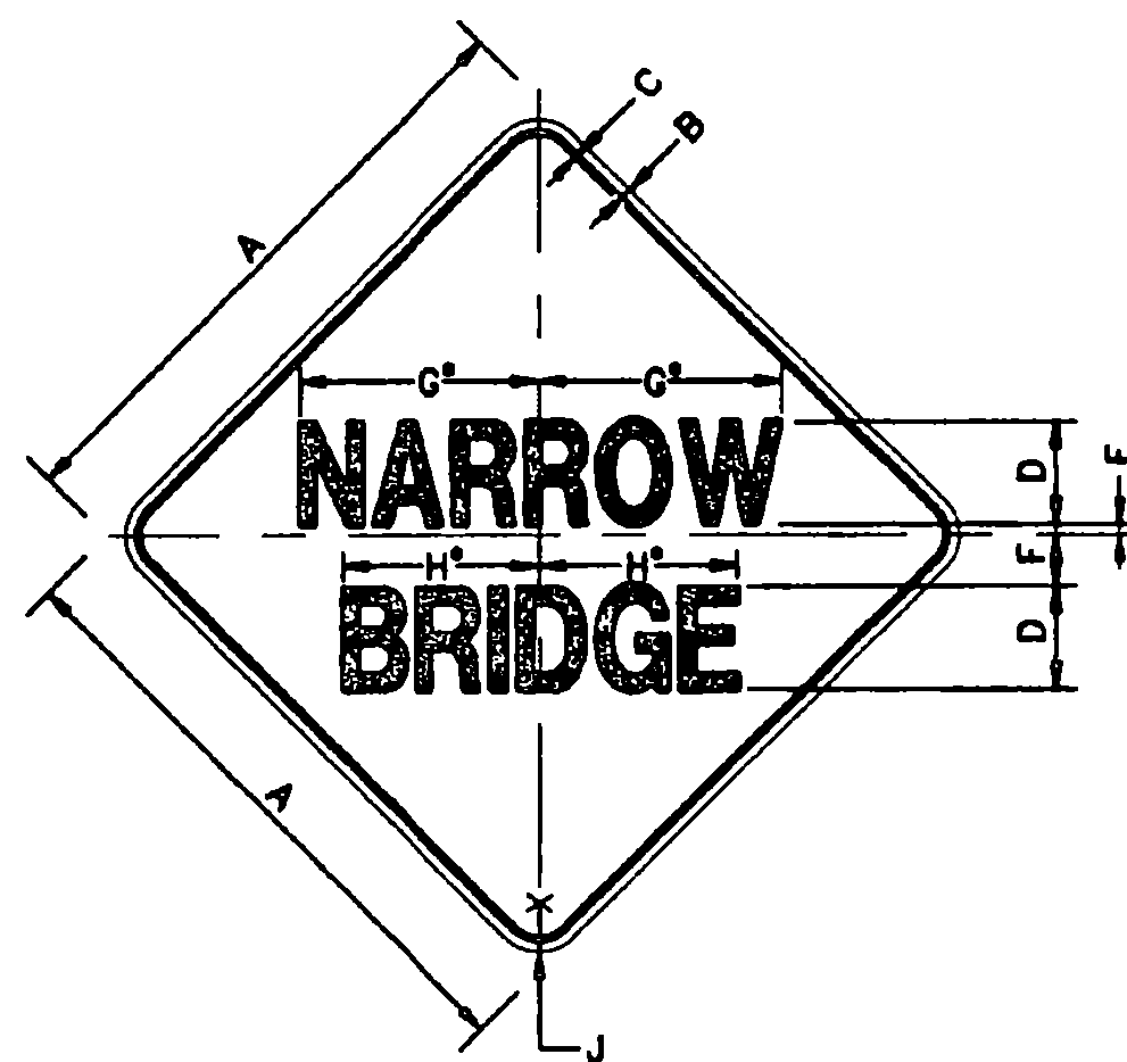
COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD.	24	10	3/8	5/8	1 1/2	20	1 1/2	3 1/2

J	K	L	M
3 5/16	1-1/2	8 1/4	9 5/16

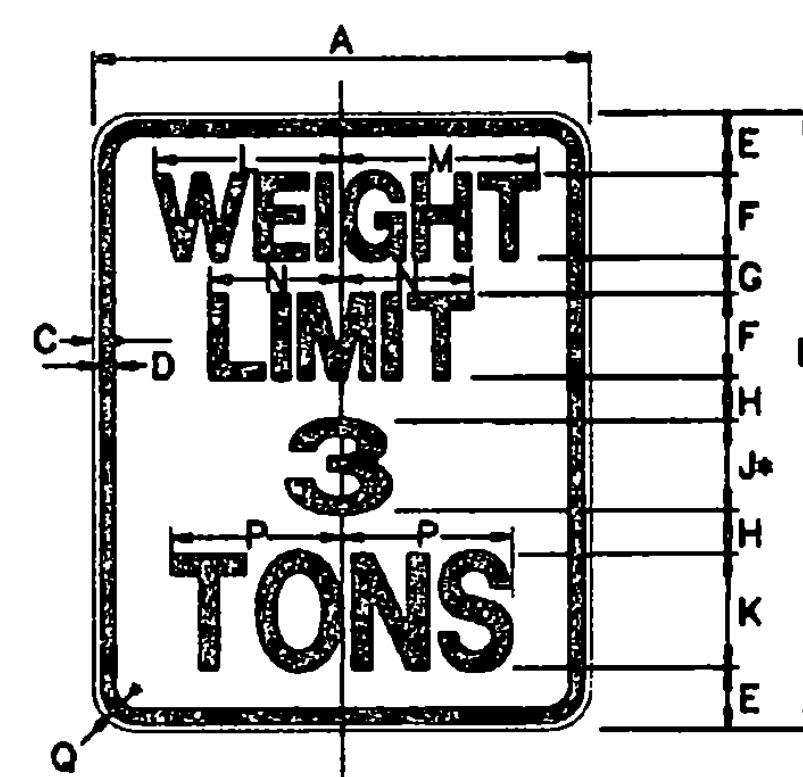
COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151



* REDUCE SPACING 20%

SIGN	DIMENSION (INCHES)									
	A	B	C	D	E	F	G	H	J	
STD.	30	1/2	3/4	50	1/2	2 1/2	13 1/16	10 7/8	1 7/8	

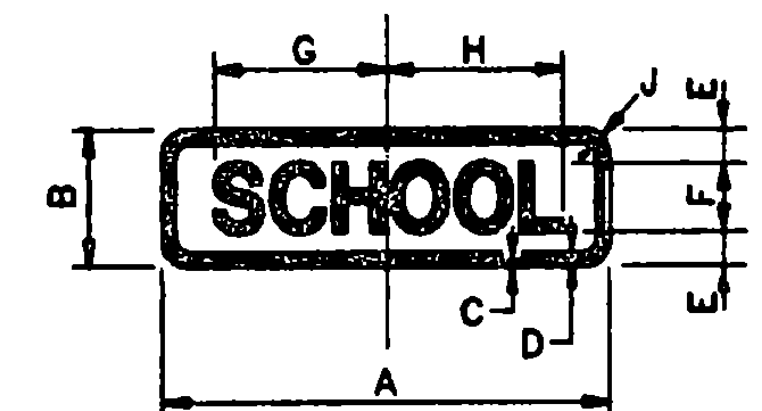
COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151



* OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE.

SIGN	DIMENSION (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
MIN. & STD.	24	30	3/8	5/8	3	40	1-3/4	2-1/8	5E	5D	9	9-1/2	8-5/16	8-1/4	1-1/2

COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-144



SIGN	DIMENSIONS (INCHES)								
	A	B	C	D	E	F	G	H	J
STD.	24	8	3/8	5/8	2	40	10	10-1/4	1-1/2

COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151

DATUM
VERTICAL _____
HORIZONTAL _____ N/A

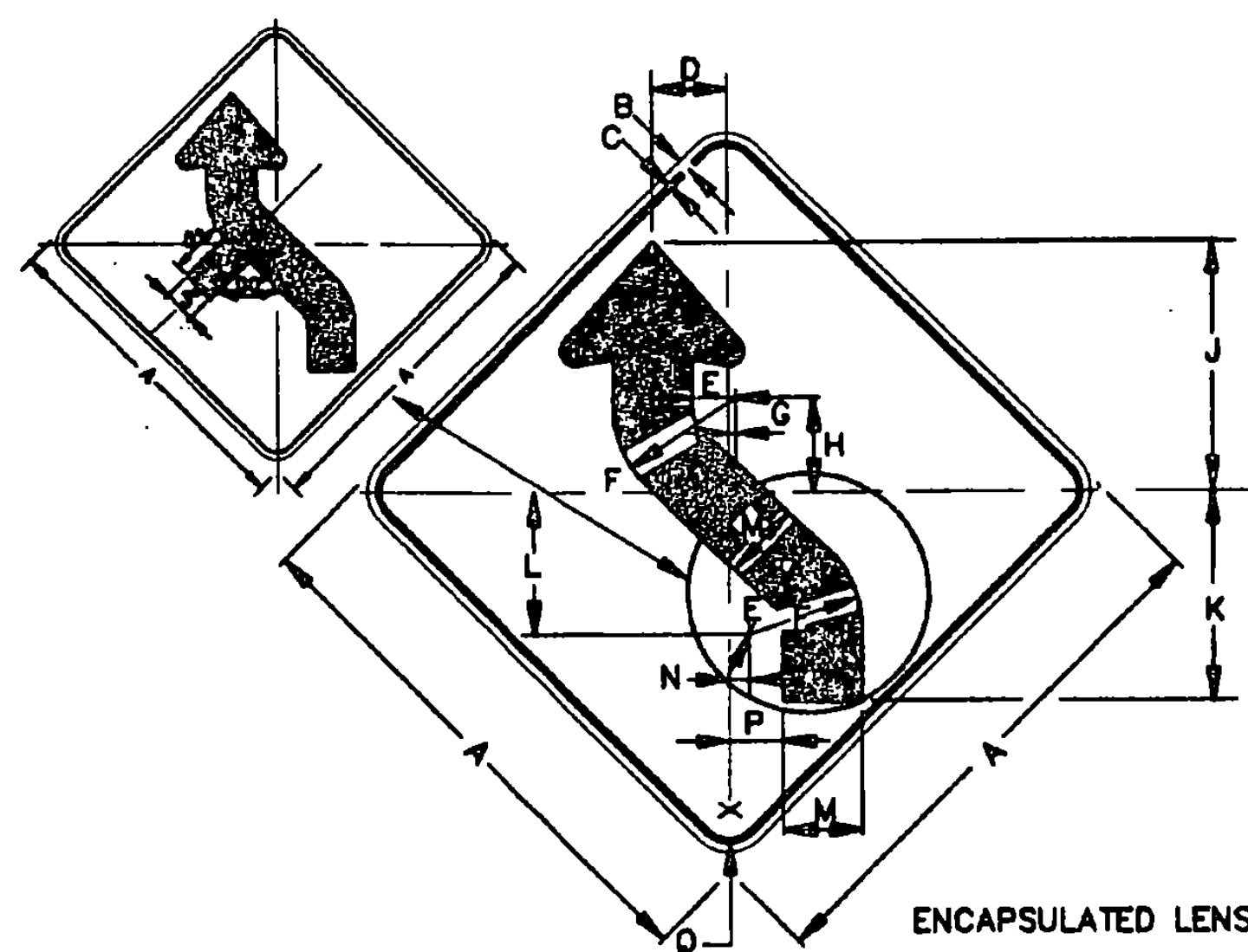
NOTE:

TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. MINOR VARIATIONS IN TEXT DIMENSIONS ARE ACCEPTABLE BASED ON INDIVIDUAL MANUFACTURER'S LETTER FABRICATION. SIGNIFICANT CHANGES WHICH AFFECT SIGN APPEARANCE SHALL BE BROUGHT TO THE ATTENTION OF THE VAOT'S TRAFFIC AND SAFETY DIVISION BEFORE FABRICATION.

NOT TO SCALE

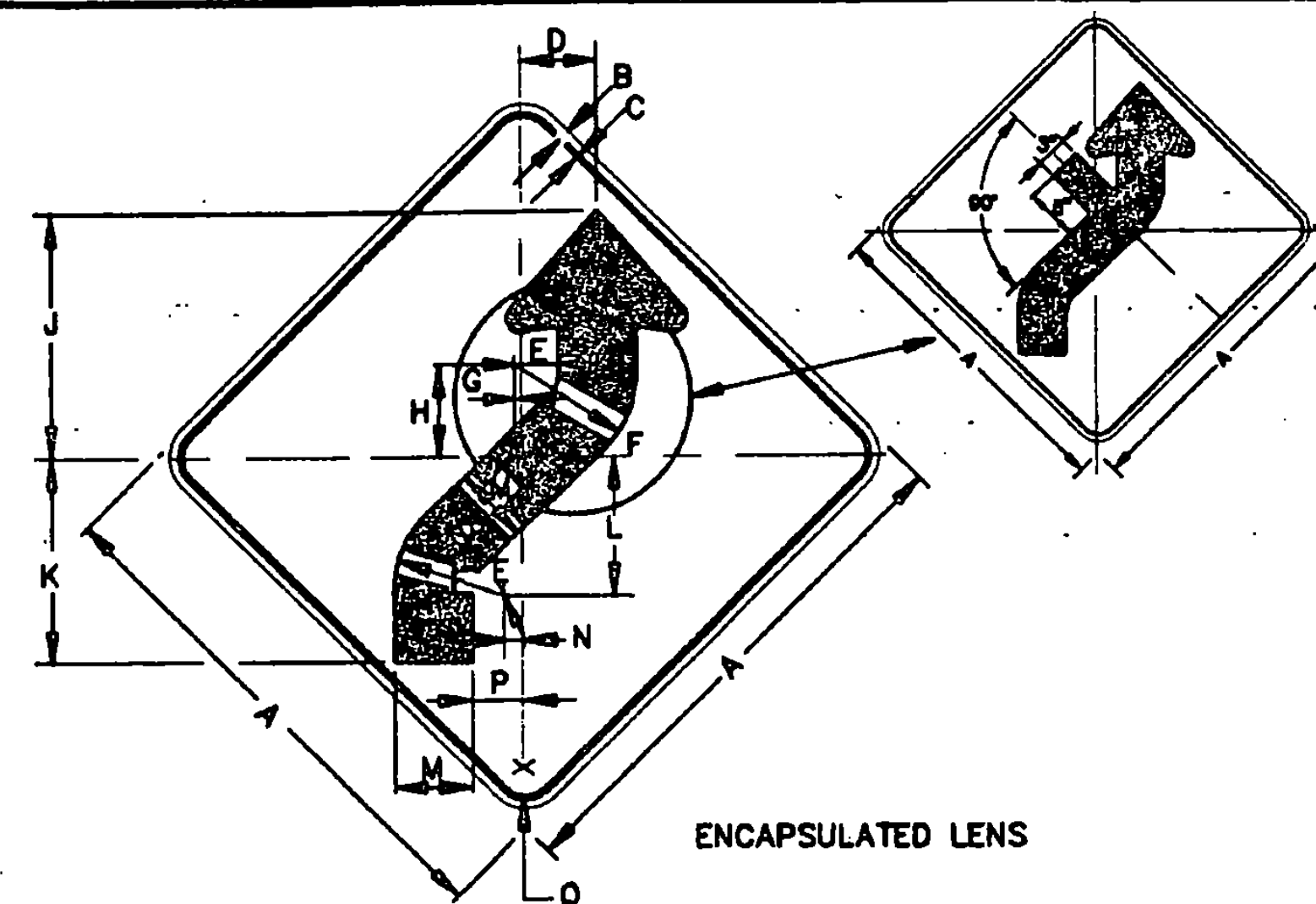
**SIGN
DETAILS
I**

SURVEYED BY N/A DATE N/A
DRAWN BY TLB DATE 12/93
SQUAD LEADER SJB
DESIGN FILE NO. _____
DATE PLOTTED _____
PROJ. NAME NORTHFIELD-BERLIN
PROJ. NO. STP SIGN 9467
SHEET 35 OF 39 SHEETS

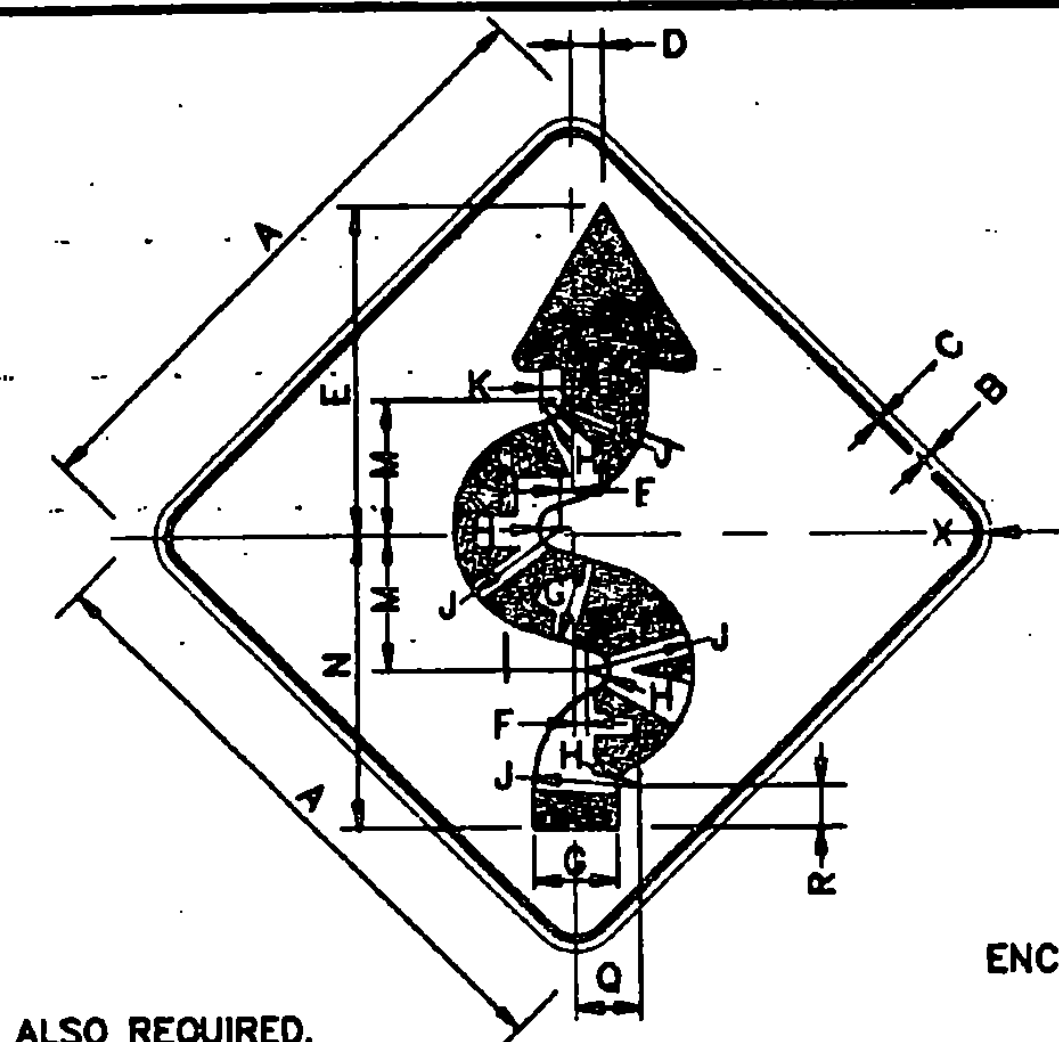


SIGN	DIMENSION (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
STD.	30	1/2	3/4	3-15/16	1-7/8	6-1/4	3/8	4-3/8	14-1/16	10-5/16	6-9/16	4-3/8	1-13/32	3-9/32	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



ENCAPSULATED LENS

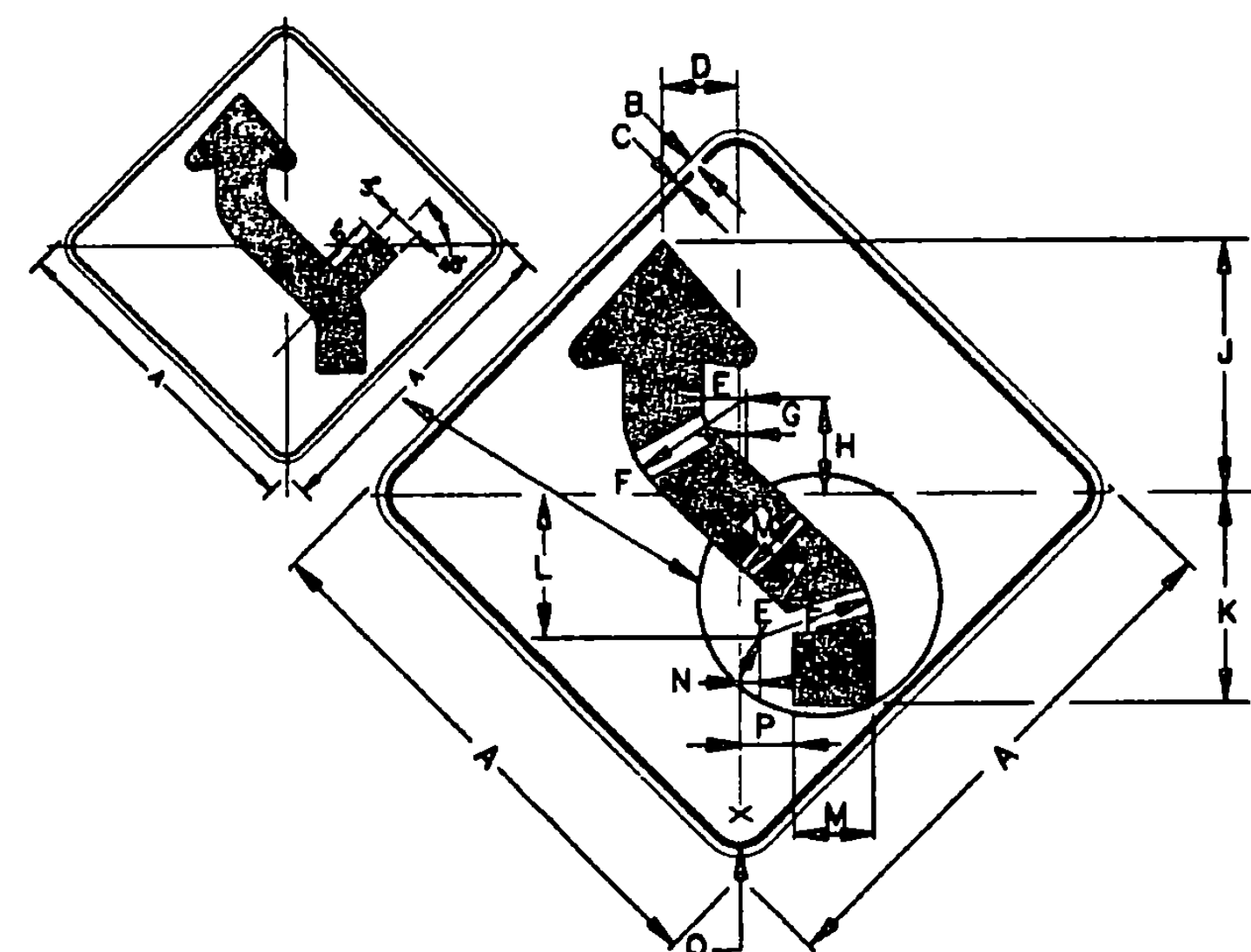


ENCAPSULATED LENS

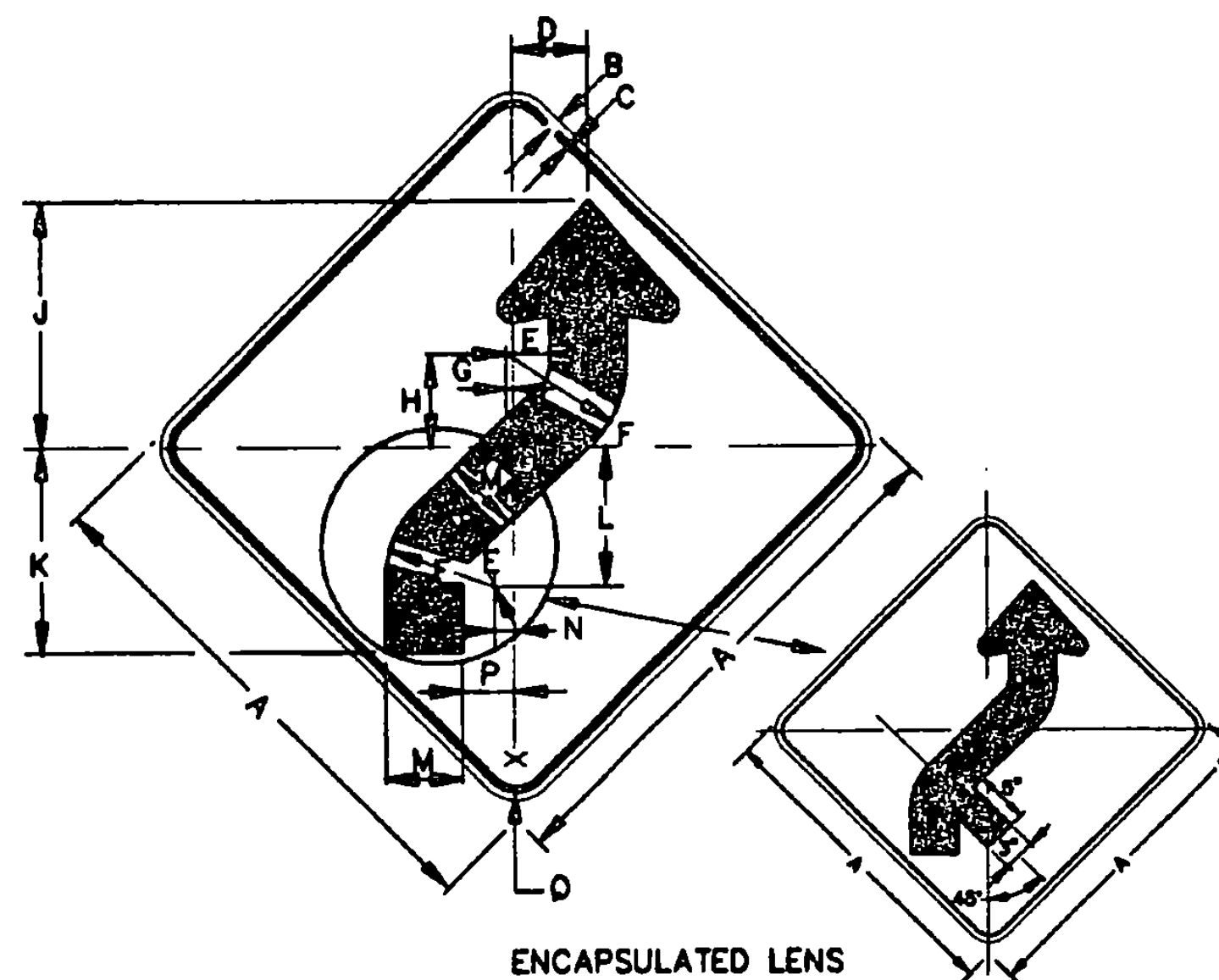
NOTE: MIRROR IMAGE ALSO REQUIRED.

SIGN	DIMENSION (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
STD.	30	1/2	3/4	9/16	15 15/16	5/8	4 1/16	1 3/32	5 5/32	1 9/16	6 31/64	6 9/16	14 7/32	5/16	3 1/8	2	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



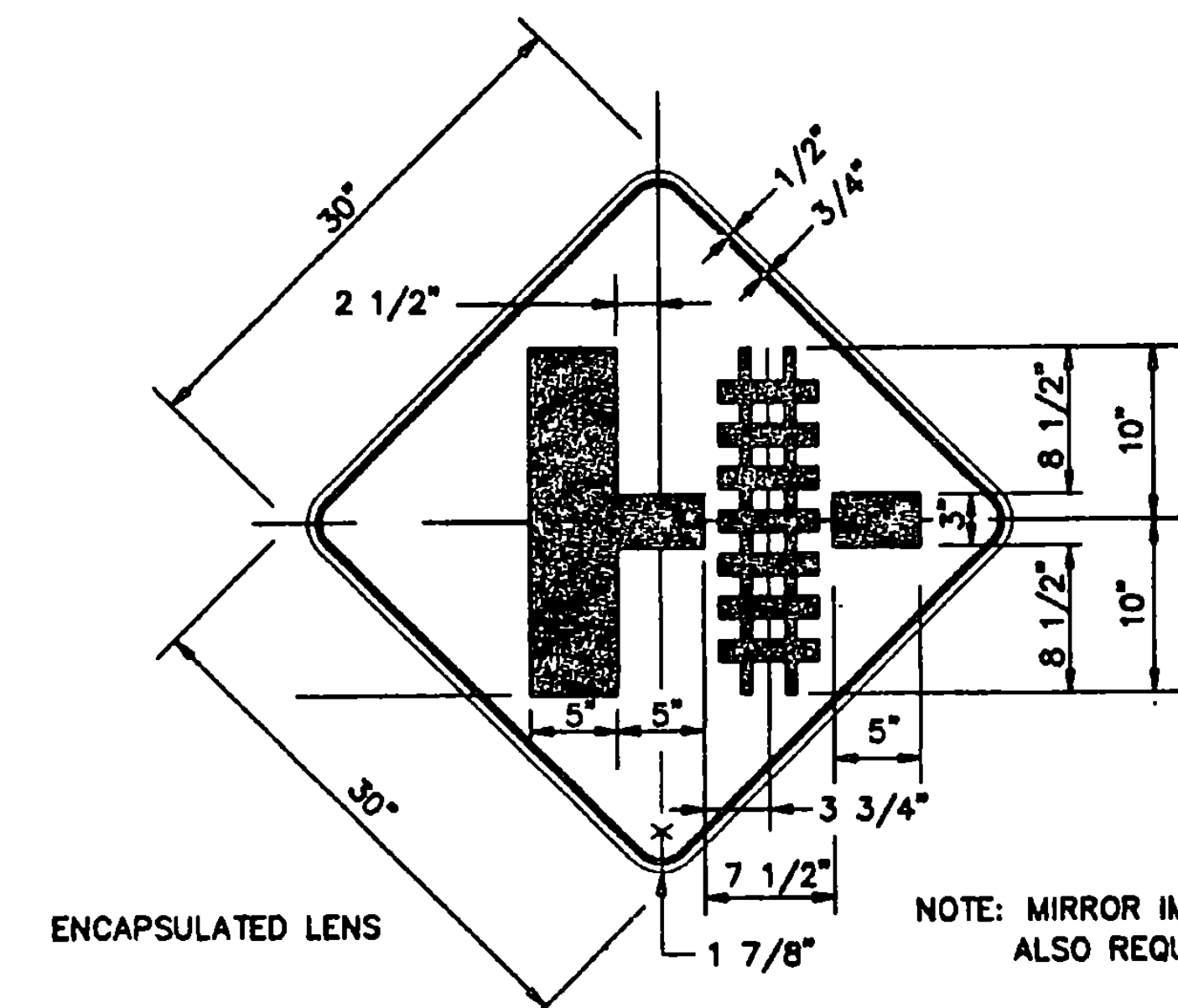
ENCAPSULATED LENS



ENCAPSULATED LENS

SIGN	DIMENSION (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
STD.	30	1/2	3/4	3-15/16	1-7/8	6-1/4	3/8	4-3/8	14-1/16	10-5/16	6-9/16	4-3/8	1-13/32	3-9/32	1 7/8

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



NOTE: MIRROR IMAGE ALSO REQUIRED.

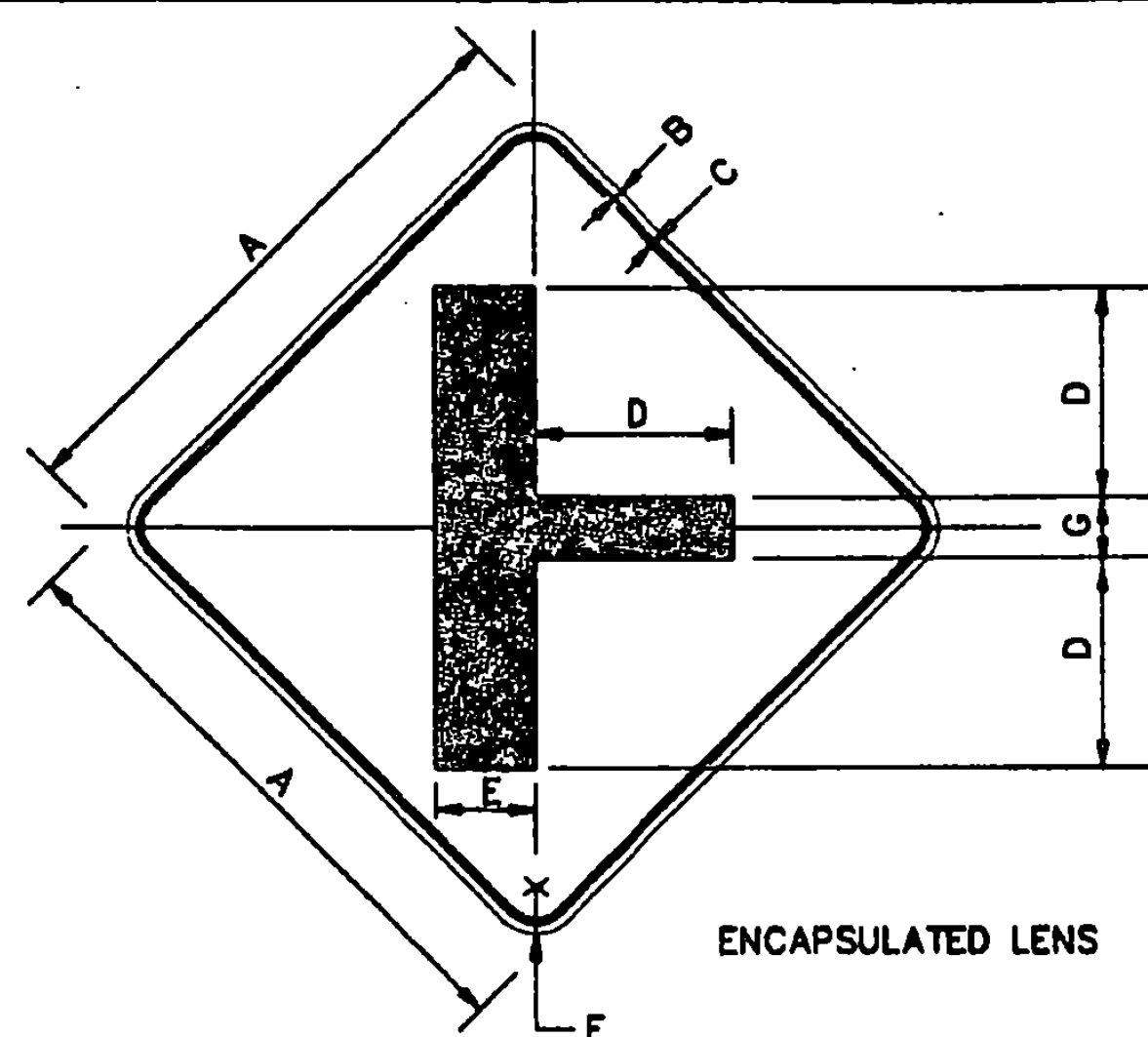
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151

DATUM
VERTICAL _____
HORIZONTAL _____ N/A

**SIGN
DETAILS
II**

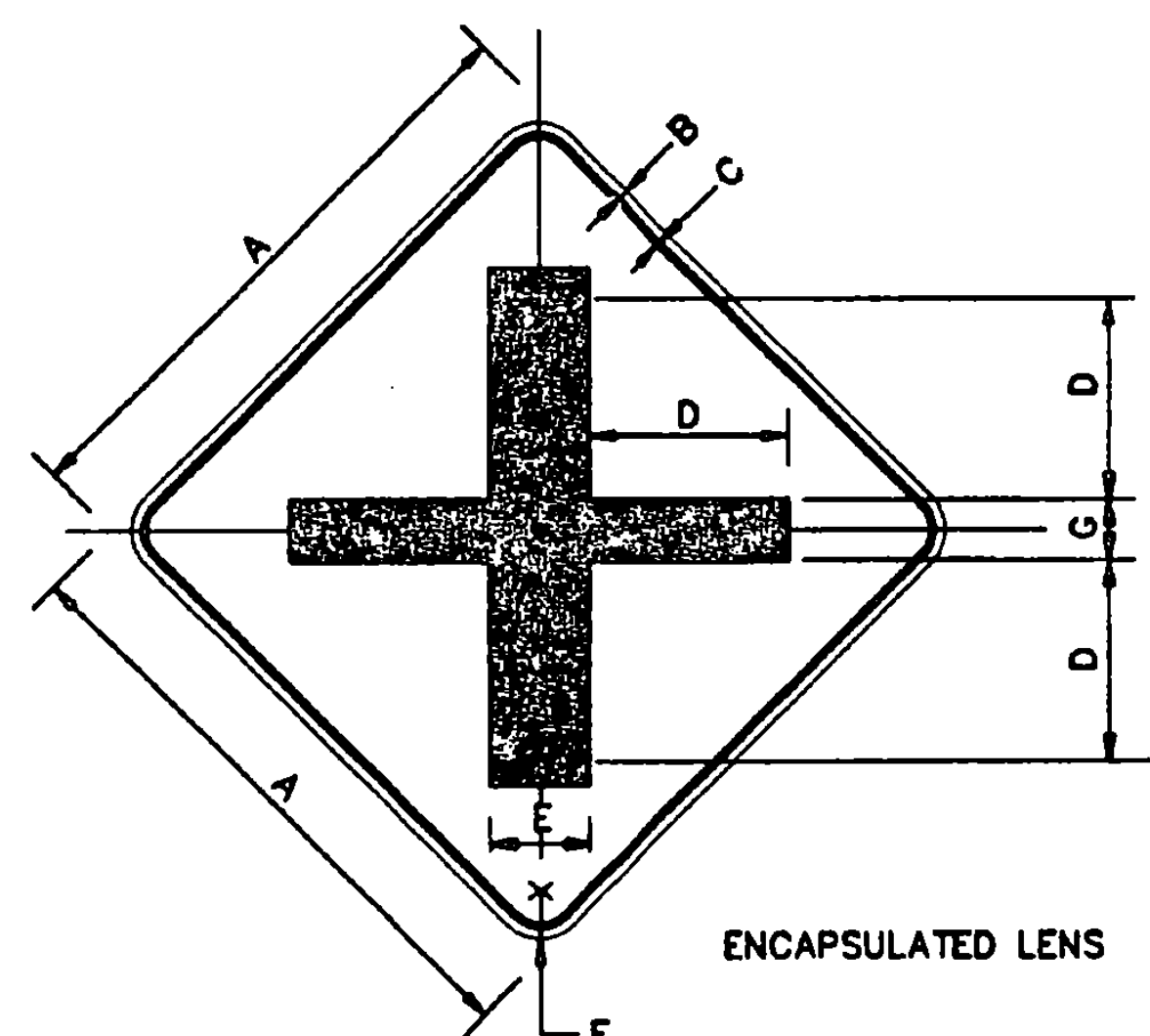
NOT TO SCALE

SURVEYED BY N/A DATE N/A
DRAWN BY TLB DATE 11/83
SQUAD LEADER SJB
DESIGN FILE NO. _____
IPARM FILE _____ DATE PLOTTED _____
PROJ. NAME NORTHFIELD-BERLIN
PROJ. NO. STP SIGN 9487
SHEET 36 OF 39 SHEETS



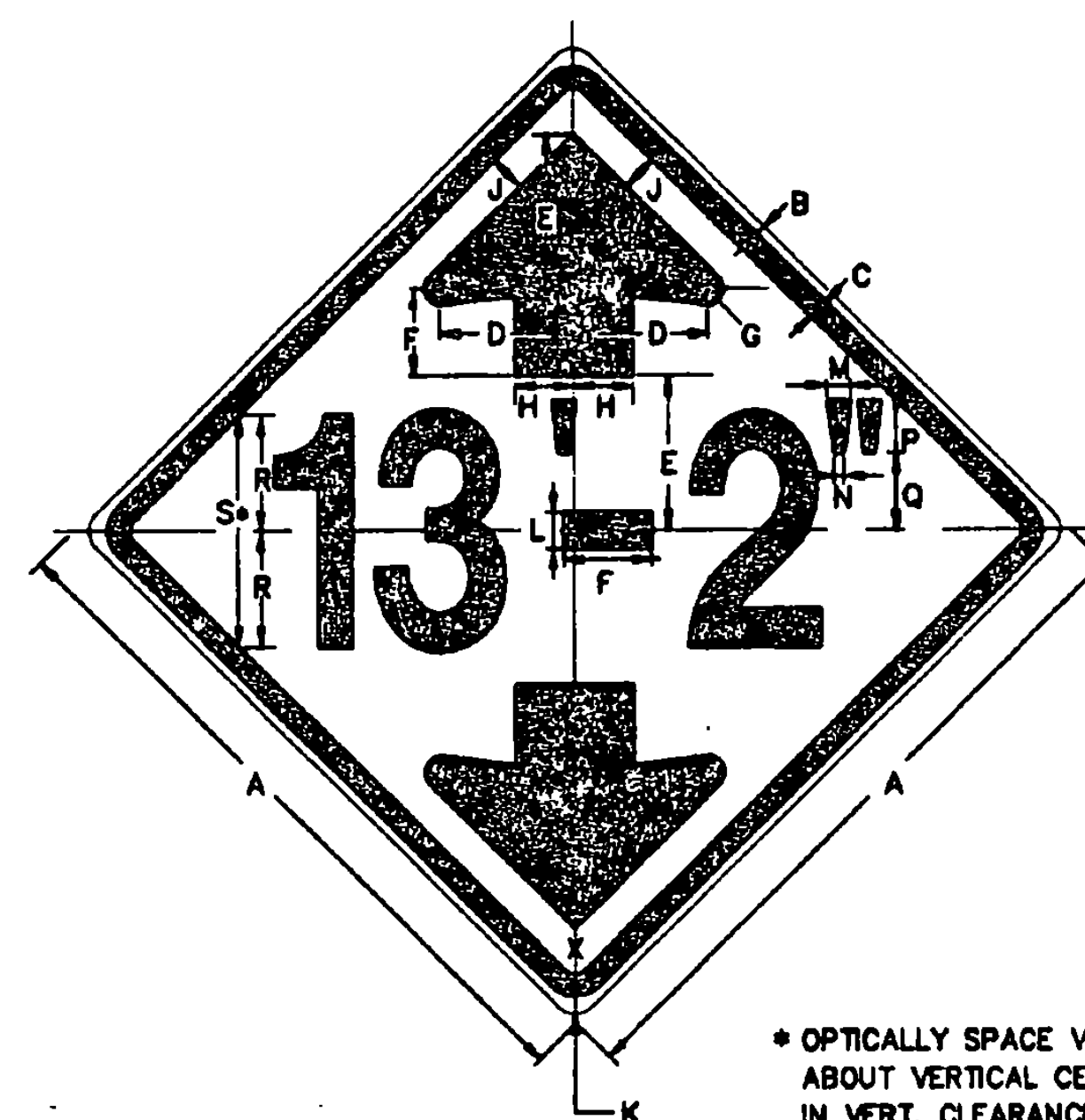
SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	G
STD.	30	1/2	3/4	10	5	1 7/8	3

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	G
STD.	30	1/2	3/4	10	5	1 7/8	3"

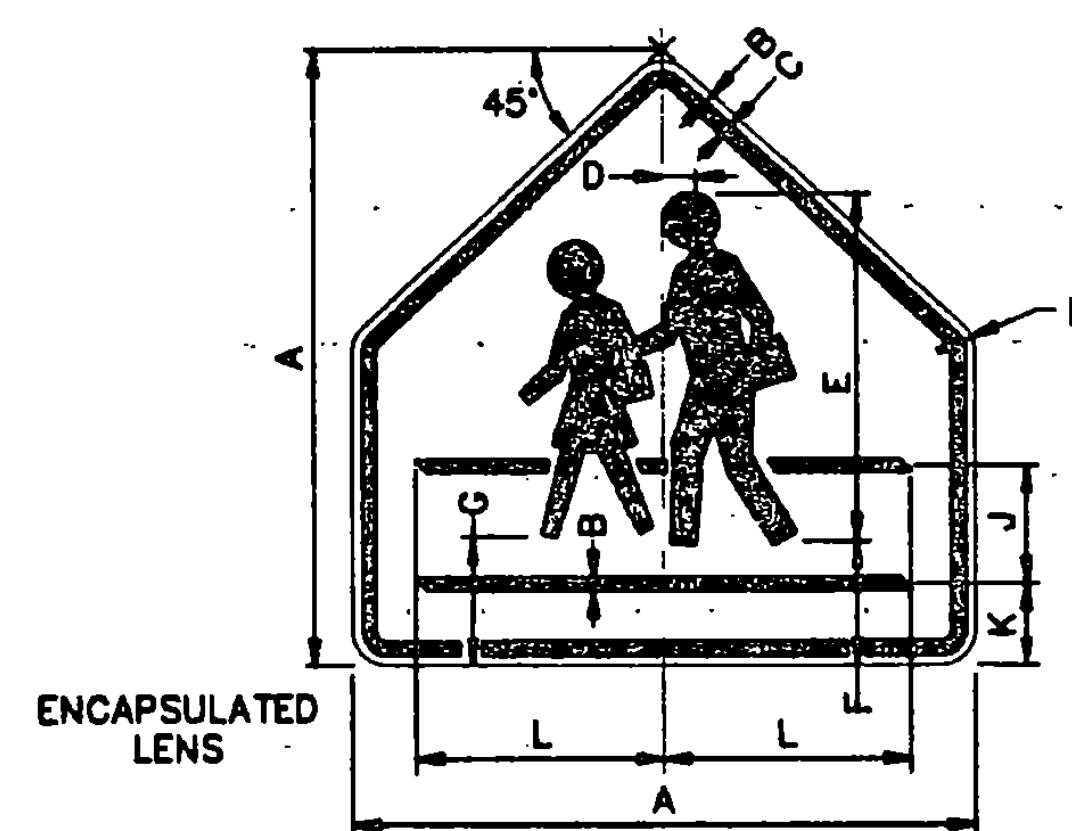
COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



* OPTICALLY SPACE VERTICAL CLEARANCE NUMERALS ABOUT VERTICAL CENTERLINE (WHERE 10" IS USED IN VERT. CLEARANCE, USE SERIES C NUMERALS)

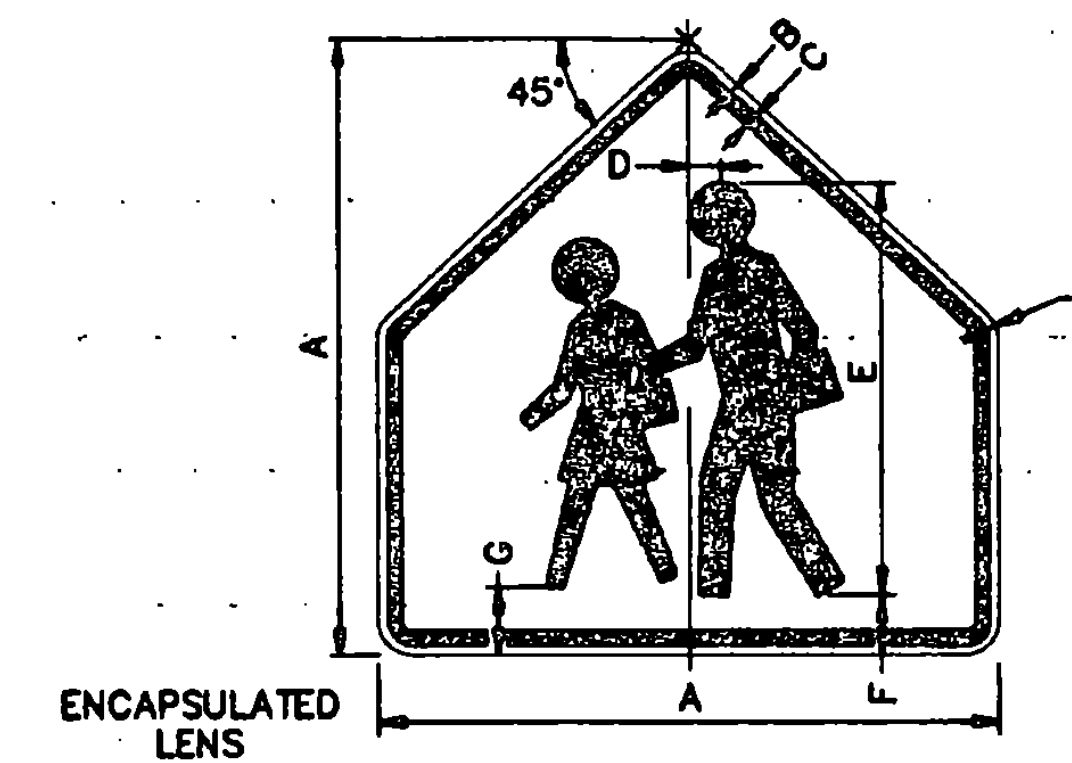
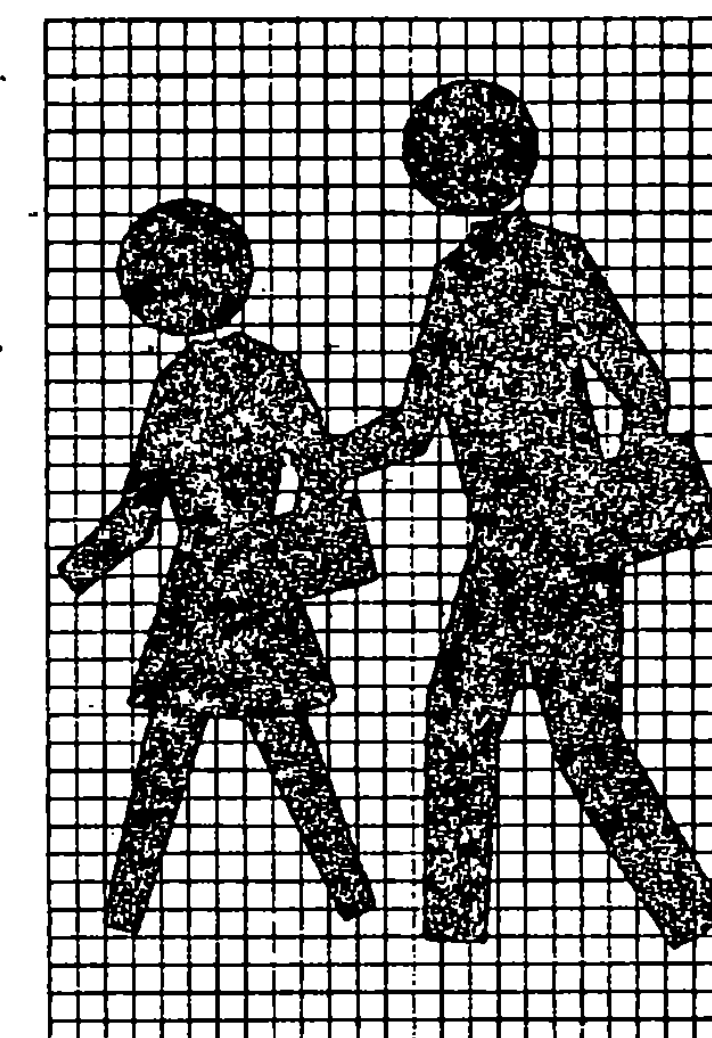
SIGN	DIMENSION (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
MIN.	30	1/2	3/4	5-3/4	8-5/8	3-3/4	3/4	2-1/2	1-11/16	1-7/8	1-9/16	1	7/16	2-1/4	3-5/16	5	10D

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



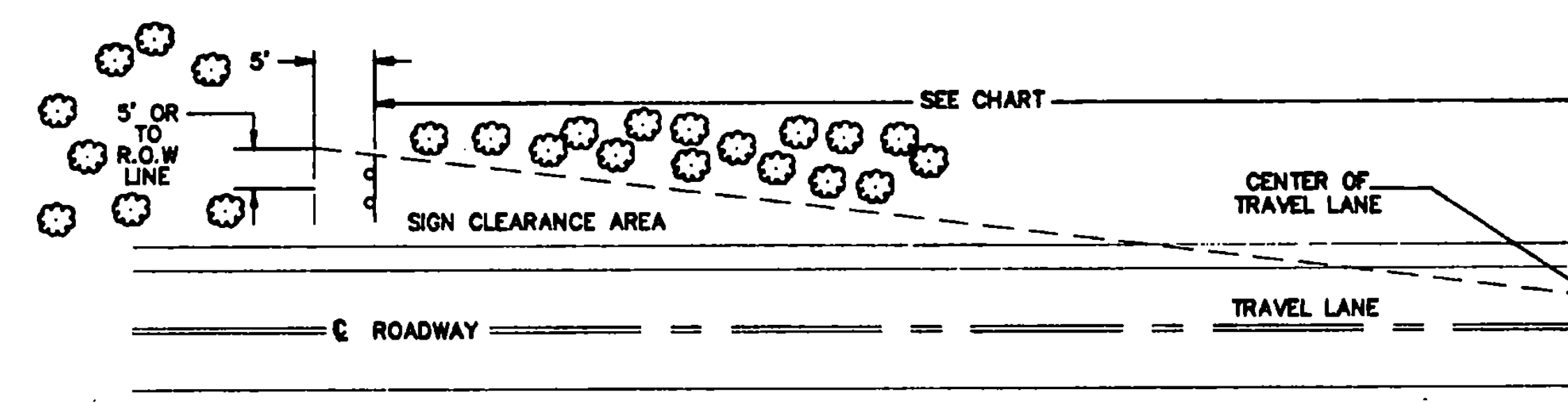
SIGN	DIMENSION (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
STD. MUTCD 7B-9	36	5/8	7/8	1 1/2	19 3/4	7 1/4	13/16	2 1/4	8 7/8	3/4	14 3/8	

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)							
	A	B	C	D	E	F	G	H
STD. MUTCD 7B-9	36	5/8	7/8	2 1/2	24	3 1/2	4 1/2	1 1/4

COLORS AND MATERIALS SHALL BE IN ACCORDANCE WITH E-151



THE CONTRACTOR SHALL REMOVE ALL WOODY STEMMED GROWTH INCLUDING BRUSH, SAPLINGS, TREE LIMBS GROWING WITHIN OR PROJECTING INTO THE CLEARANCE AREA AND DOWN TO GROUND LEVEL. PAYMENT WILL BE FOR THINNING & TRIMMING (MOD.) ITEM 201.31. NO CHEMICALS (POISONS OR DEFOLIANTS) ALLOWED.

MINIMUM SIGN SIGHT DISTANCE CHART

APPROACH SPEED (mph)	SIGHT DISTANCE (feet)
30 OR LESS	300
35	350
40	400
45	450
50	500

CLEARING LIMITS FOR SIGNS ON CONVENTIONAL ROADS

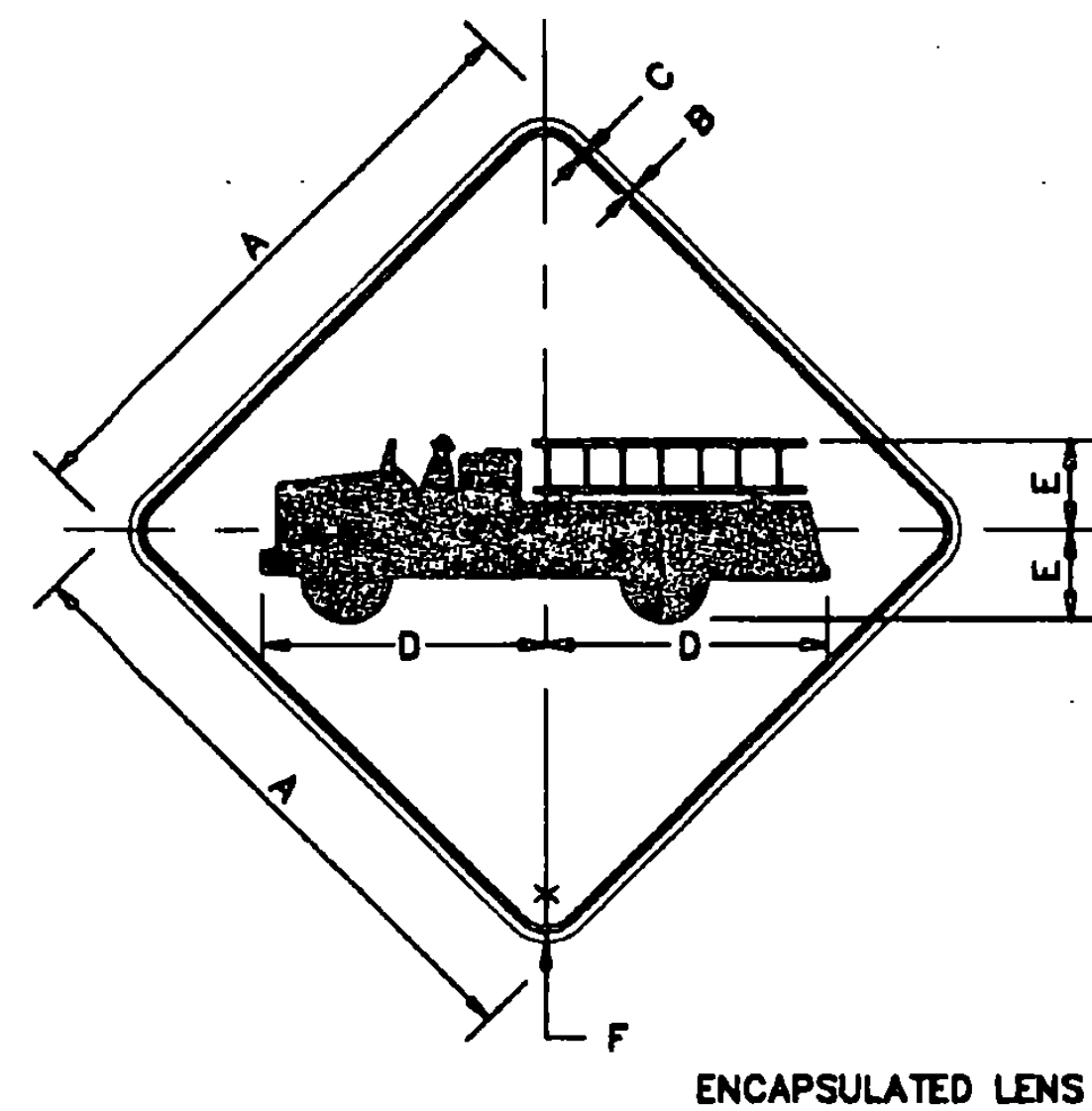
SIGN DETAILS III

SURVEYED BY	N/A	DATE	N/A
DRAWN BY	TLB	DATE	11/03
SQUAD LEADER	S.B.		
DESIGN FILE NO.		DATE PLOTTED	
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9467		
SHEET 37 OF 38 SHEETS			

NOT TO SCALE

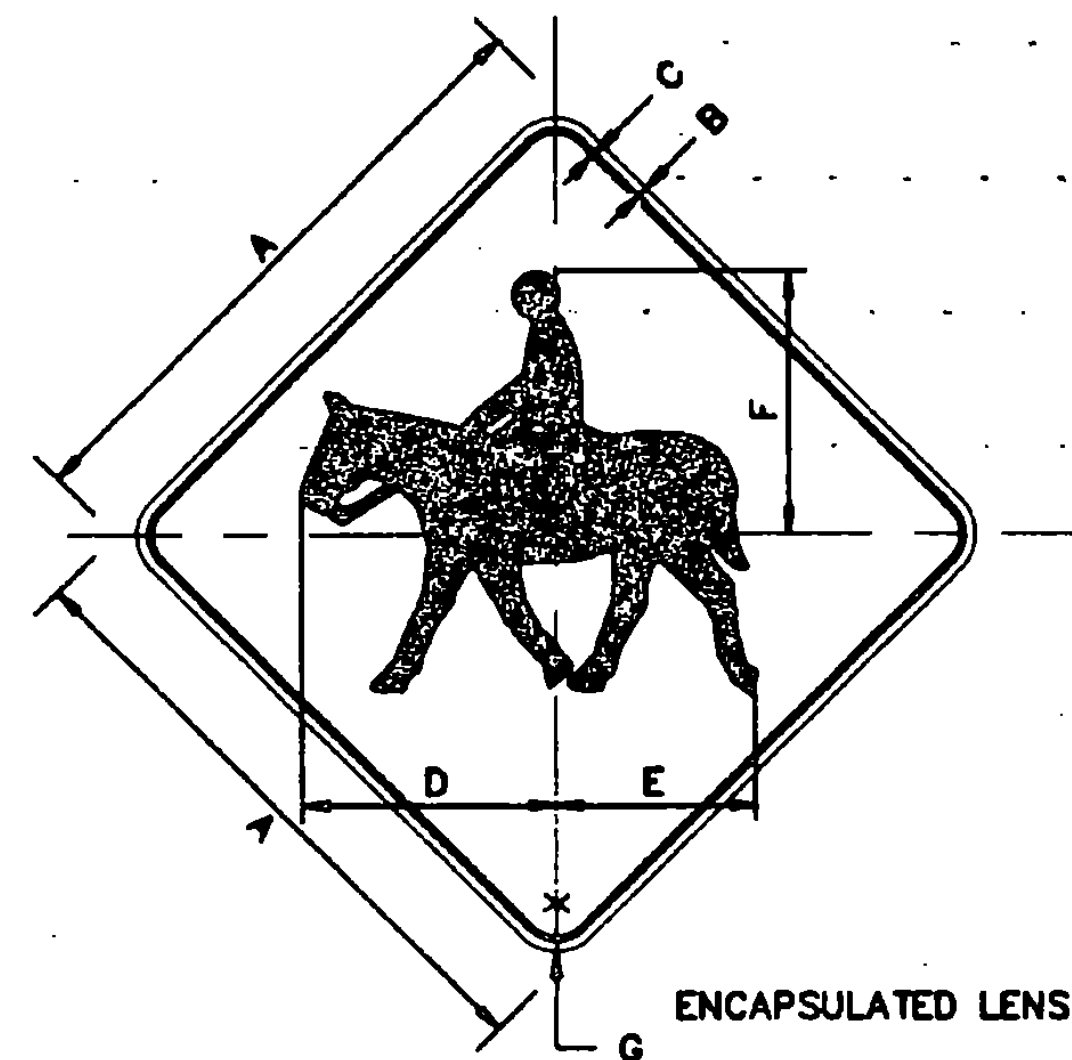
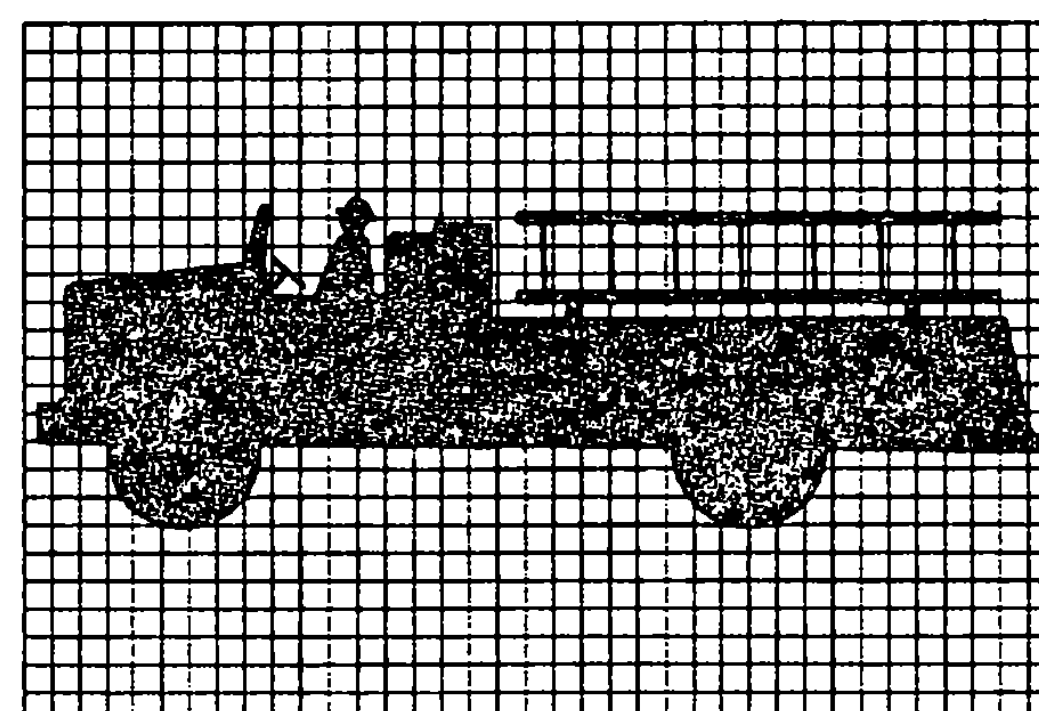
DATUM
VERTICAL _____
HORIZONTAL N/A

NOTE:
TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. MINOR VARIATIONS IN TEXT DIMENSIONS ARE ACCEPTABLE BASED ON INDIVIDUAL MANUFACTURER'S LETTER FABRICATION. SIGNIFICANT CHANGES WHICH AFFECT SIGN APPEARANCE SHALL BE BROUGHT TO THE ATTENTION OF THE VAOT'S TRAFFIC AND SAFETY DIVISION BEFORE FABRICATION.



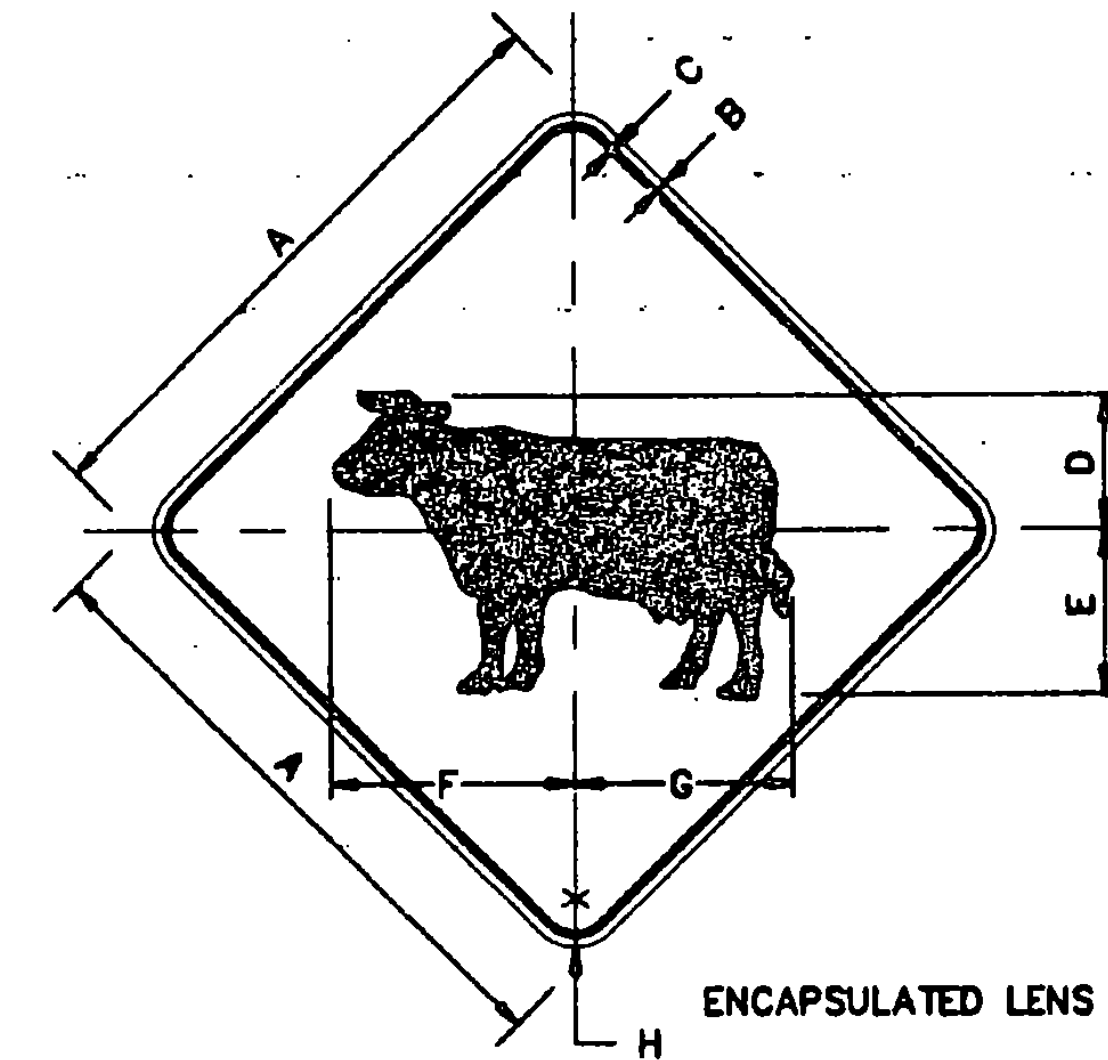
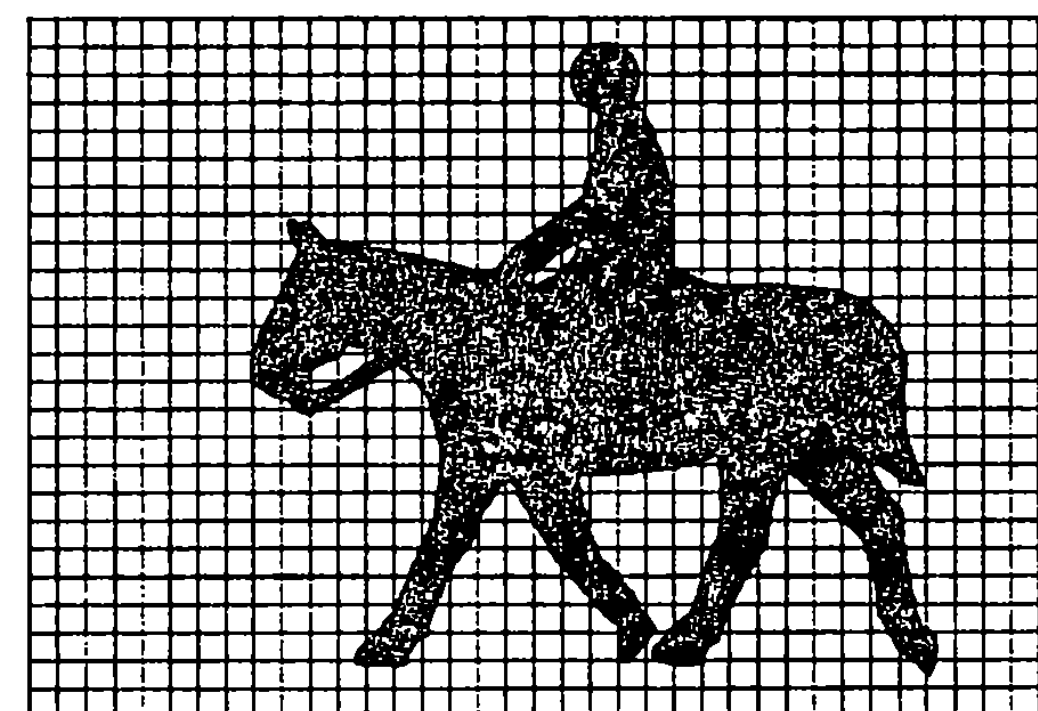
SIGN	DIMENSION (INCHES)					
	A	B	C	D	E	F
MIN.	30	1/2	3/4	13	3/4	3/8 1 7/8

COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151



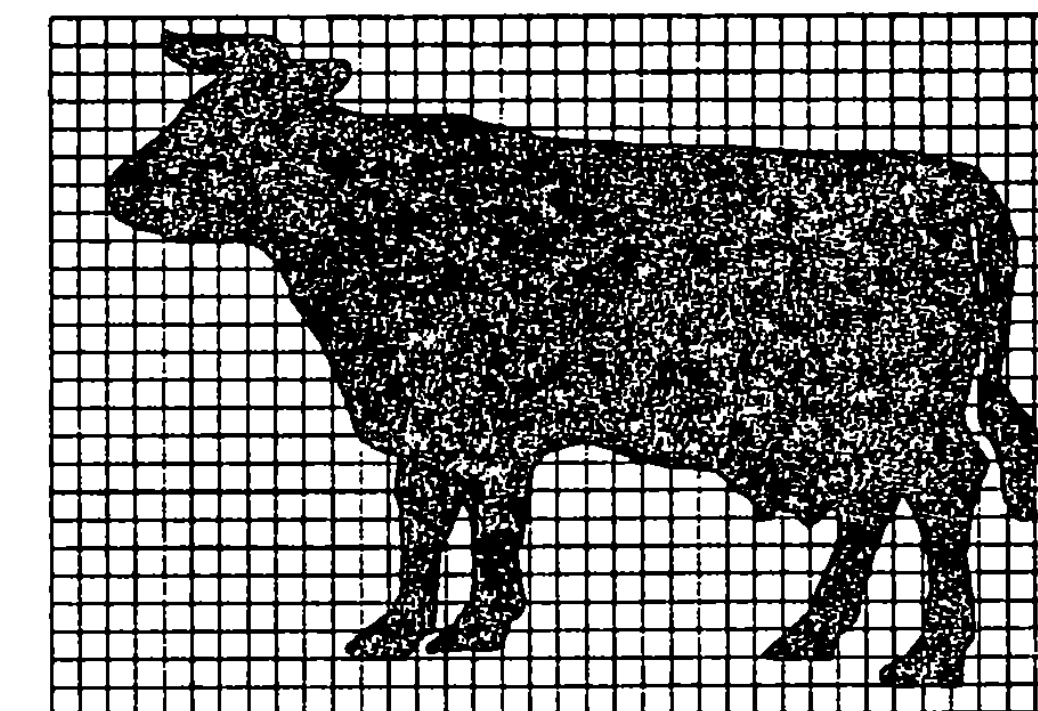
SIGN	DIMENSION (INCHES)						
	A	B	C	D	E	F	G
STD.	30	1/2	3/4	13	10	13	1 7/8

COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151



SIGN	DIMENSION (INCHES)							
	A	B	C	D	E	F	G	H
MIN.	30	1/2	3/4	6	6	11 3/4	10 1/2	1 7/8

COLORS AND MATERIALS
SHALL BE IN ACCORDANCE WITH E-151



FILE NAME: 6 V25-2405714 : BY : JCF : DATE: 1984-07-12

DATUM
VERTICAL _____
HORIZONTAL N/A

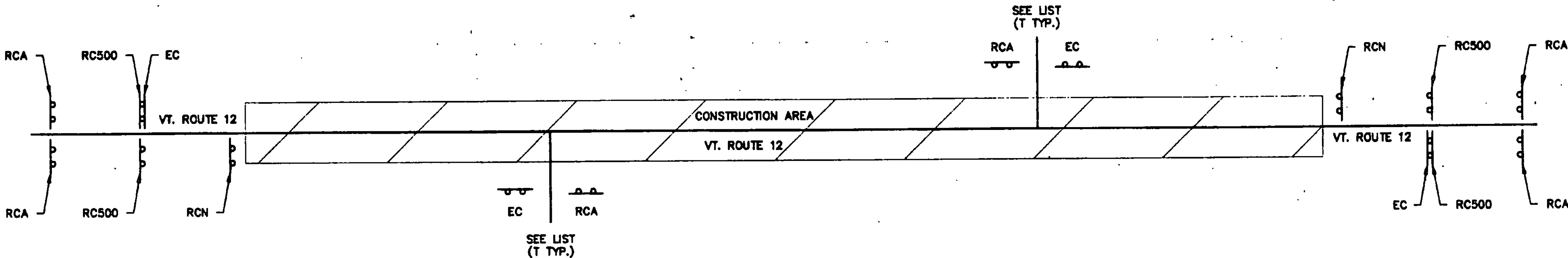
NOT TO SCALE

**SIGN
DETAILS
IV**

SURVEYED BY	N/A	DATE	N/A
DRAWN BY	TLB	DATE	12/83
SQUAD LEADER	SJB		
DESIGN FILE NO.			
DATE PLOTTED			
PROJ. NAME	NORTHFIELD-BERLIN		
PROJ. NO.	STP SIGN 9467		
SHEET 38 OF 38 SHEETS			

CONSTRUCTION APPROACH SIGNING

SEE STD. E-100 FOR SIGN PLACEMENT



LIST OF TOWN ROADS/HIGHWAYS
FOR CONSTRUCTION SIGNS

TOWN HIGHWAY NUMBER	ROAD CONST. AHEAD	END CONST.	OTHER
NORTHFIELD			
T-14	1	1	
T-16	1	1	
T-17	1	1	
TH-3	1	1	
T-83	1	1	
T-85	1	1	
T-83	1	1	
T-84	1	1	
T-86	1	1	
BERLIN			
T-55	1	1	
T-61	1	1	
T-77	1	1	
T-71	1	1	
T-54	1	1	
SUBTOTAL	14	14	

LIST OF TOWN ROADS/HIGHWAYS
FOR CONSTRUCTION SIGNS

TOWN HIGHWAY NUMBER	ROAD CONST. AHEAD	END CONST.	OTHER
T-48	1	1	
T-40	1	1	
T-54	1	1	
T-53	1	1	
T-35	1	1	
T-49	1	1	
T-38	1	1	
T-39	1	1	
T-74	1	1	
T-16	1	1	
T-47	1	1	
T-12	1	1	
TH-8	1	1	
SUBTOTAL	13	13	
TOTAL	27	27	

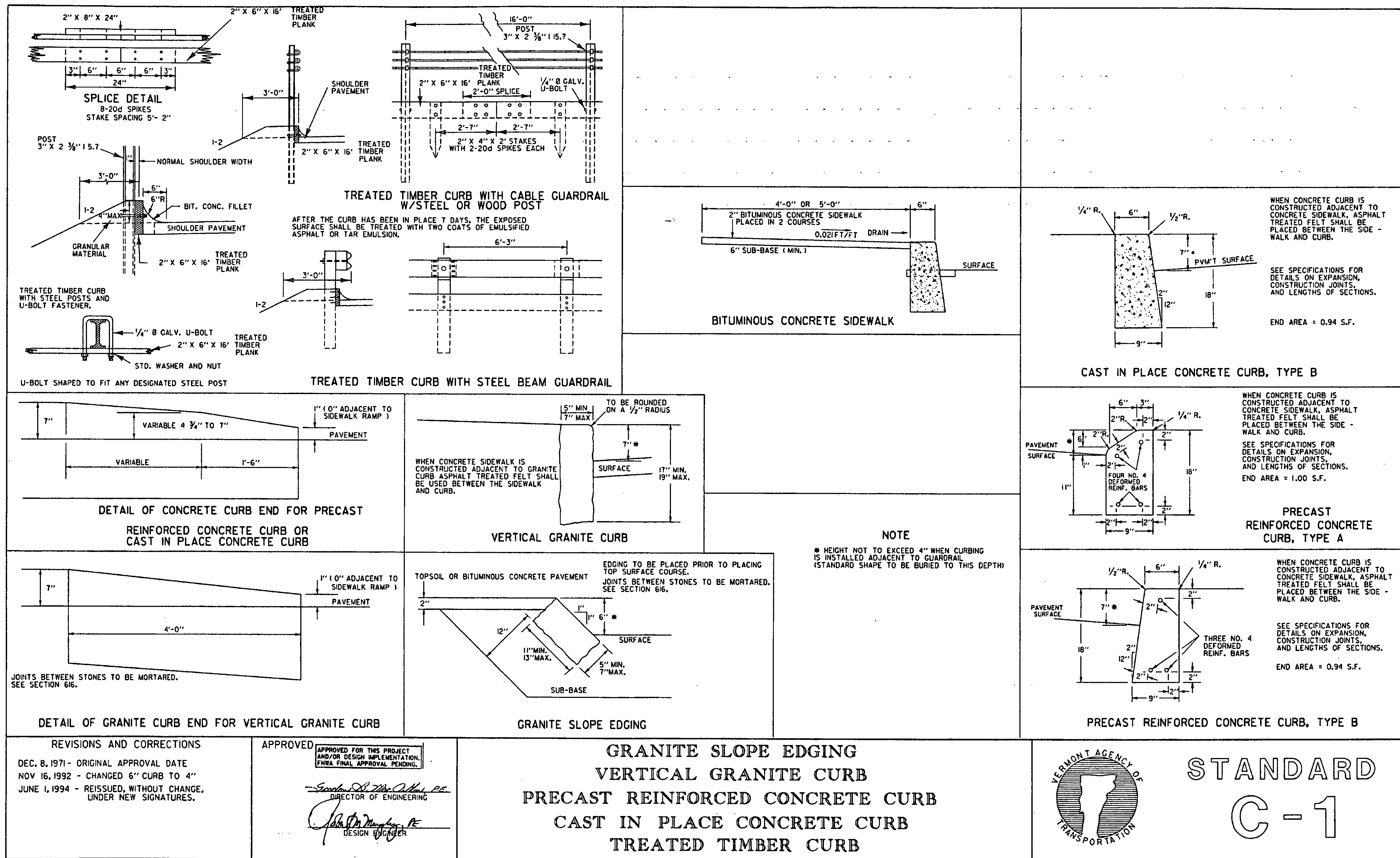
RCA = ROAD CONSTRUCTION AHEAD
RC500 = ROAD CONSTRUCTION 500'
EC = END CONSTRUCTION
RCN = ROAD CONSTRUCTION NEXT 7.25 MILES
SRCA = SIDE ROAD CONSTRUCTION AHEAD
SRC500 = SIDE ROAD CONSTRUCTION 500'
T = TOWN ROAD
TH = TOWN HIGHWAY

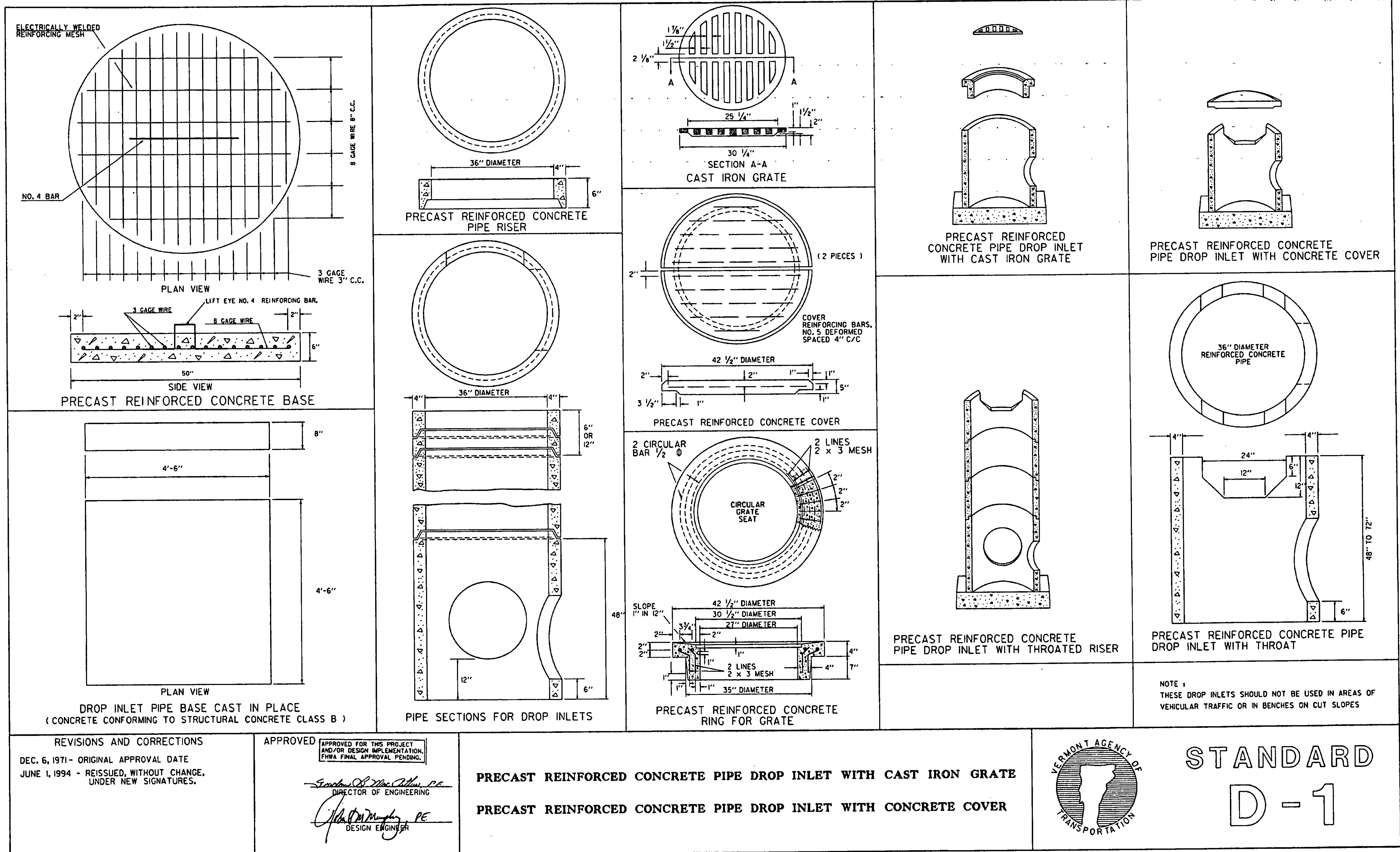
DATUM
VERTICAL N/A
HORIZONTAL N/A

CONSTRUCTION
APPROACH
SIGNING

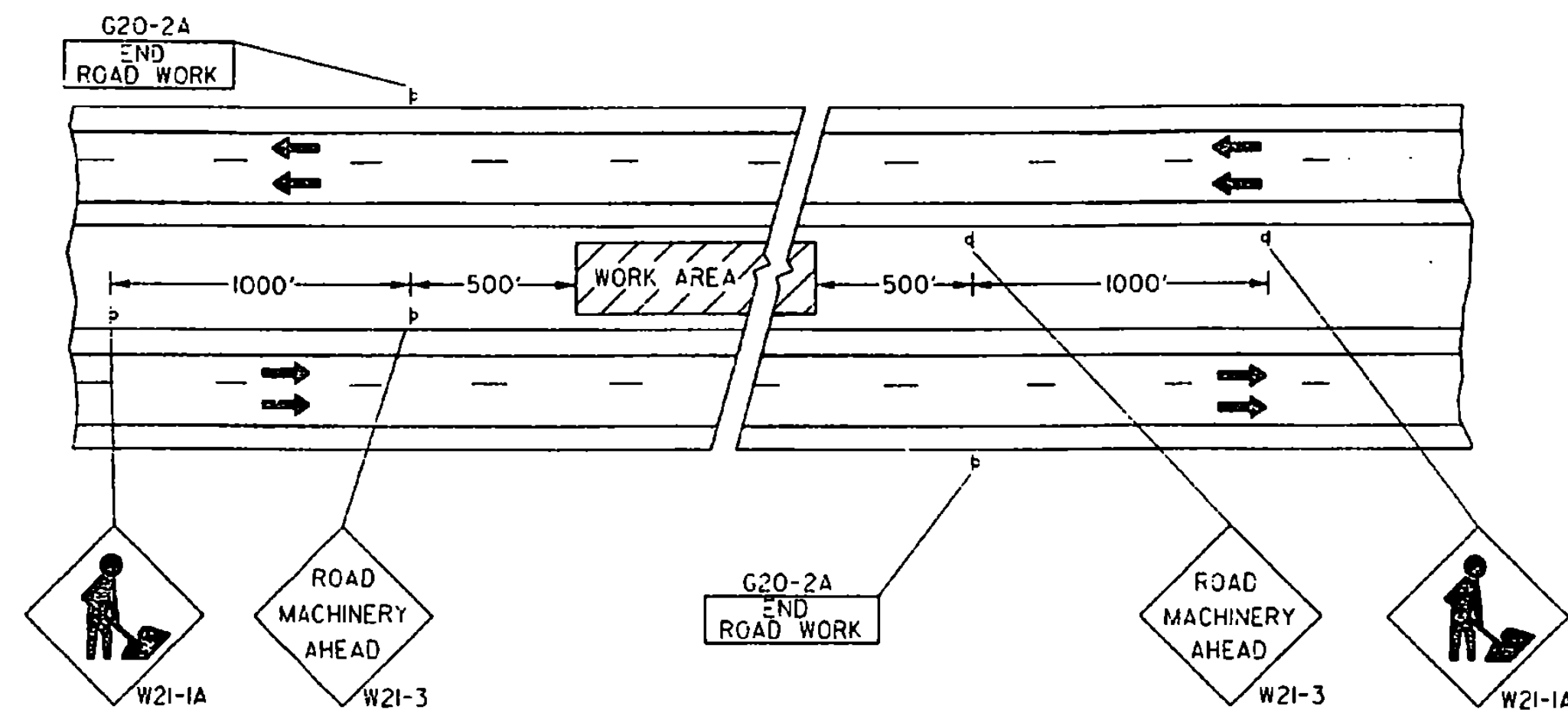
SURVEYED BY SJB/JHF DATE N/A
DRAWN BY TLB DATE 12/83
SQUAD LEADER SJB
DESIGN FILE NO. _____
FILE _____ DATE PLOTTED _____
PROJ. NAME NORTHFIELD-BERLIN
PROJ. NO. STP SIGN 9467
SHEET 39 OF 39 SHEETS

NOT TO SCALE

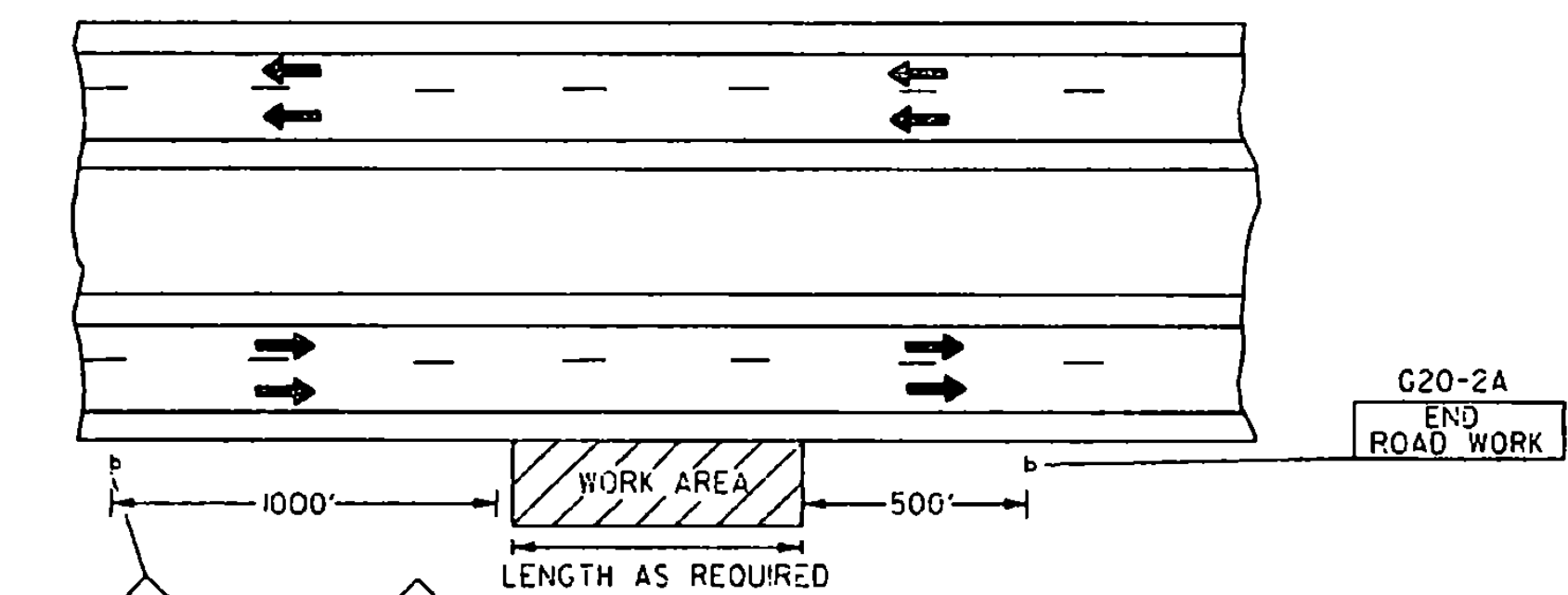




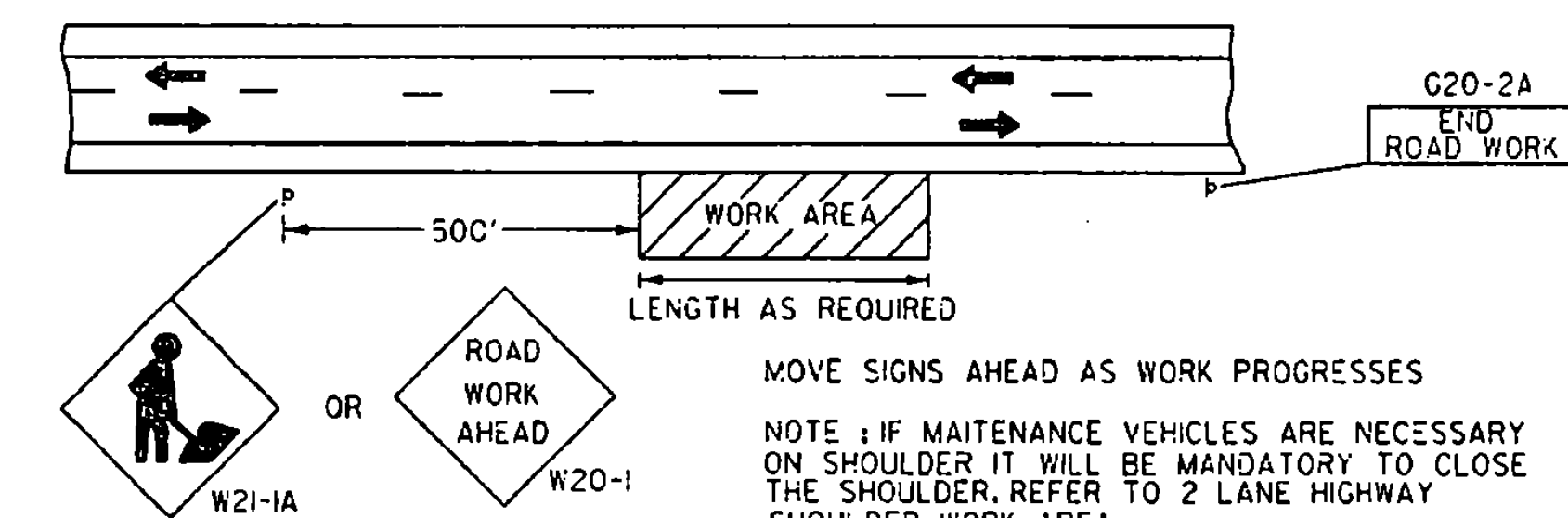
NOTE:
THESE DROP INLETS SHOULD NOT BE USED IN AREAS OF
VEHICULAR TRAFFIC OR IN BENCHES ON CUT SLOPES



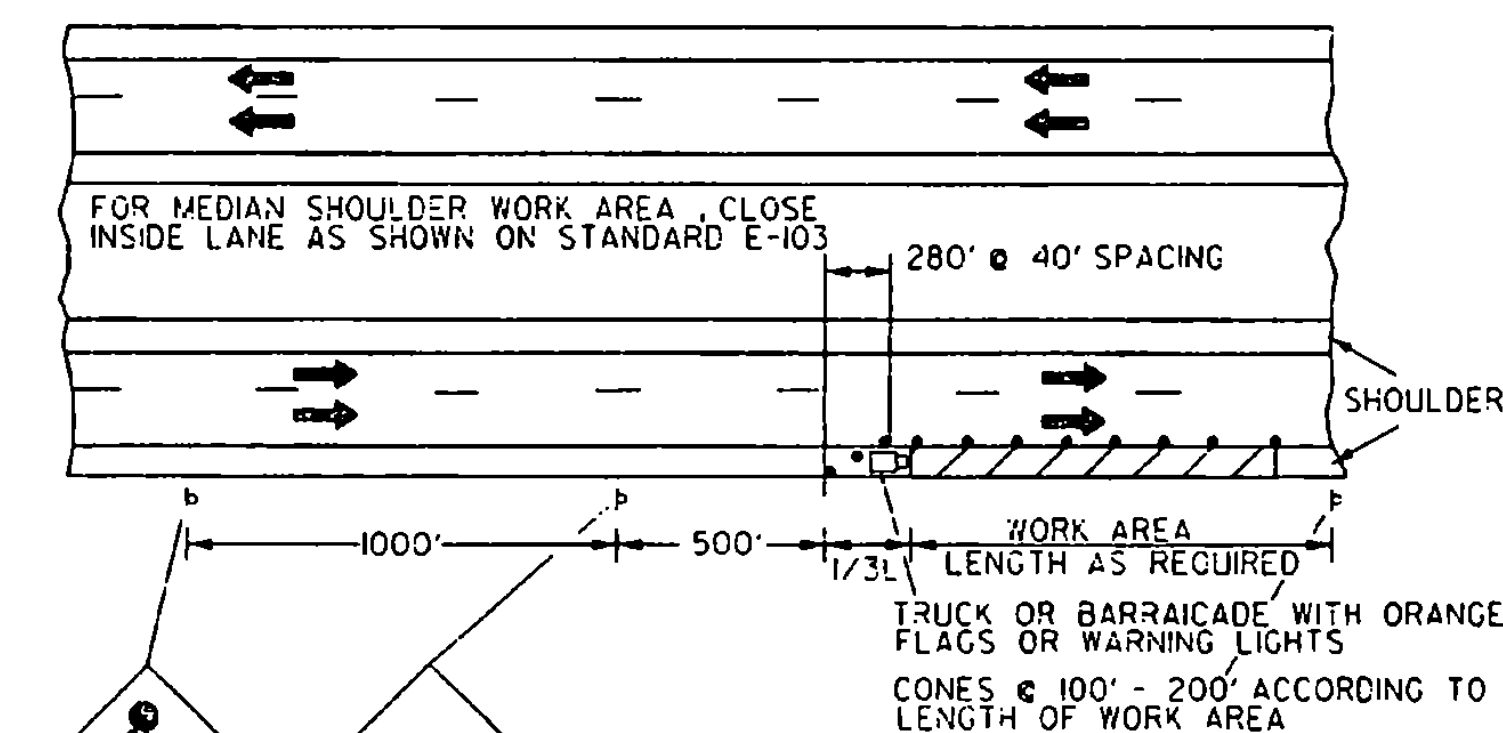
**4 - LANE HIGHWAY
MEDIAN MAINTENANCE**



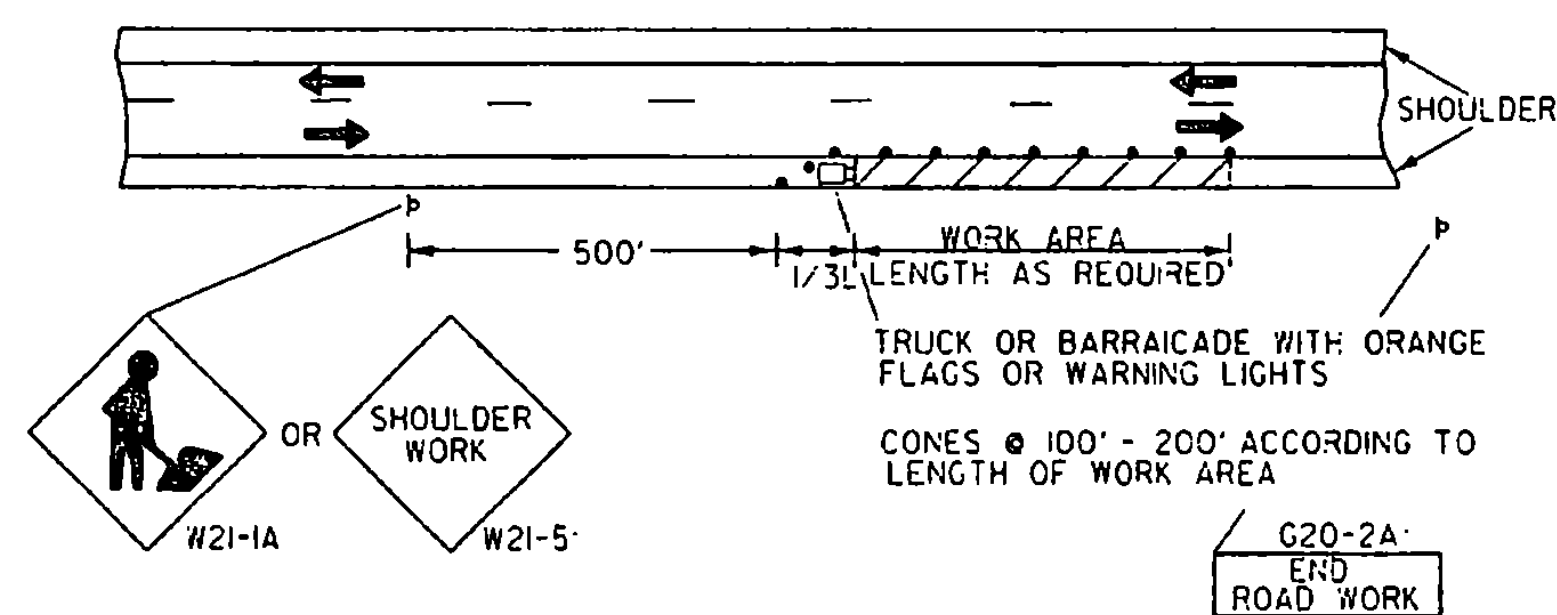
**4 - LANE HIGHWAY
MAINTENANCE OUTSIDE SHOULDER**



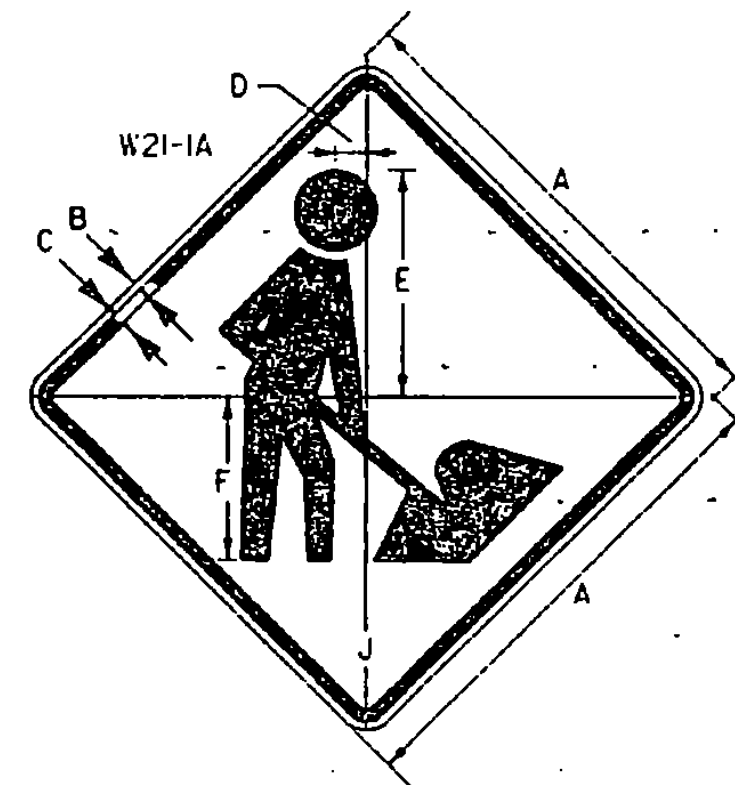
**2 - LANE HIGHWAY
MAINTENANCE OUTSIDE SHOULDER**



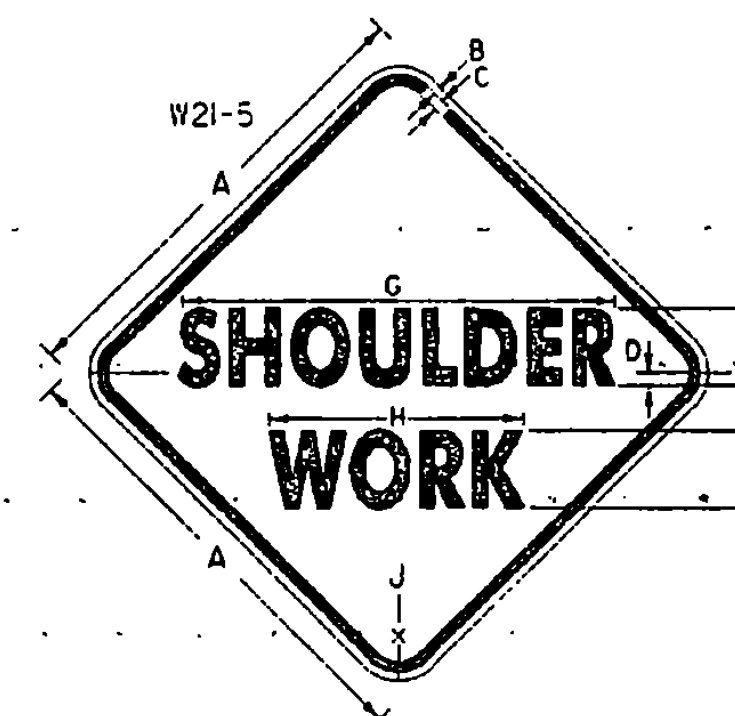
**4 - LANE DIVIDED HIGHWAY
SHOULDER WORK AREA**



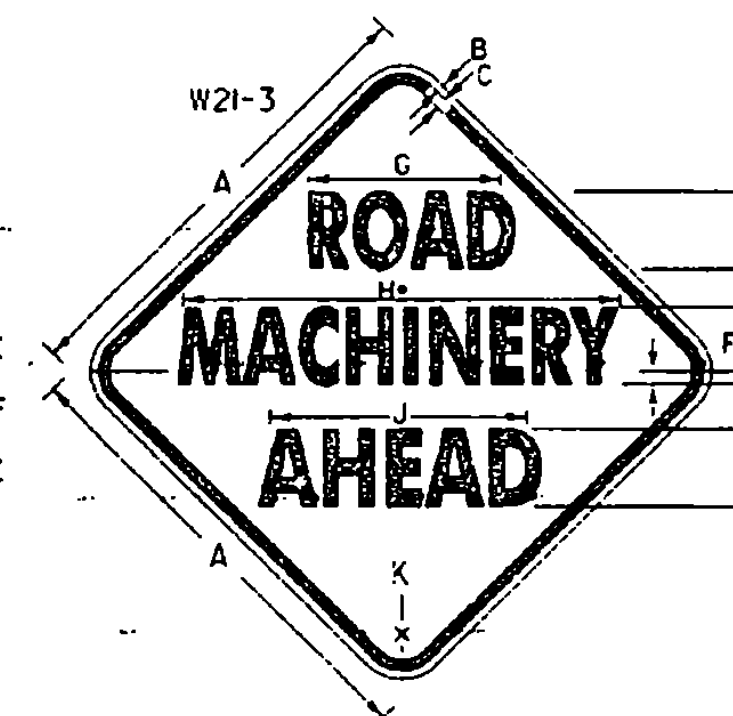
**2 - LANE HIGHWAY
SHOULDER WORK AREA**



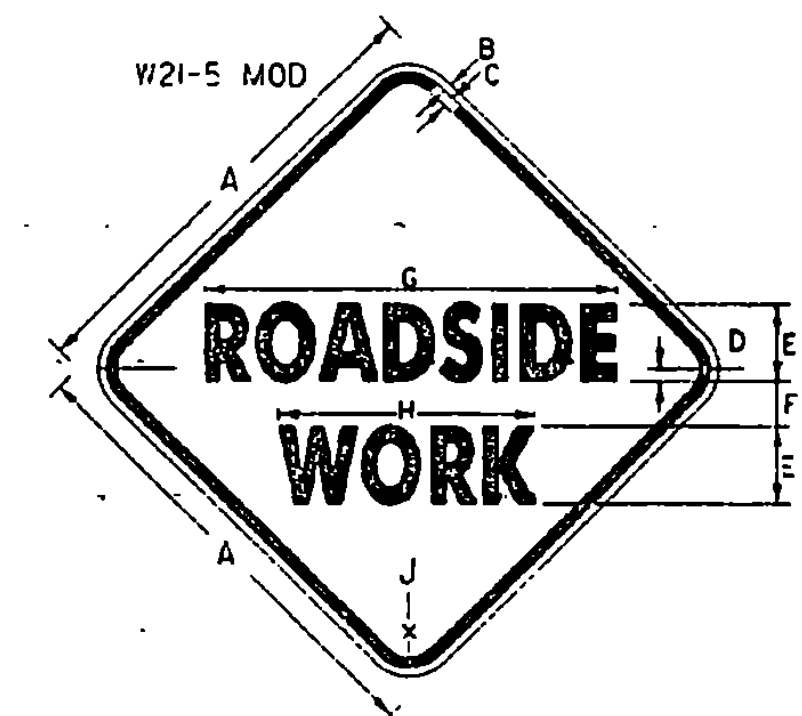
SIGN	A	B	C	D	E	F	G	H	J
2 LANE	36	3/8	7/8	5 3/4	5 3/4	4 1/4			2 1/4
4 LANE	48	3/4	1 1/4	7 1/2	7 1/2	5			3



SIGN	A	B	C	D	E	F	G	H	J
2 LANE	36	3/8	7/8	1	5-D	3 1/2	3 1/4	1 1/4	2 1/4
4 LANE	48	3/4	1 1/4	1	7-C	4	3 3/4	2 1/4	3

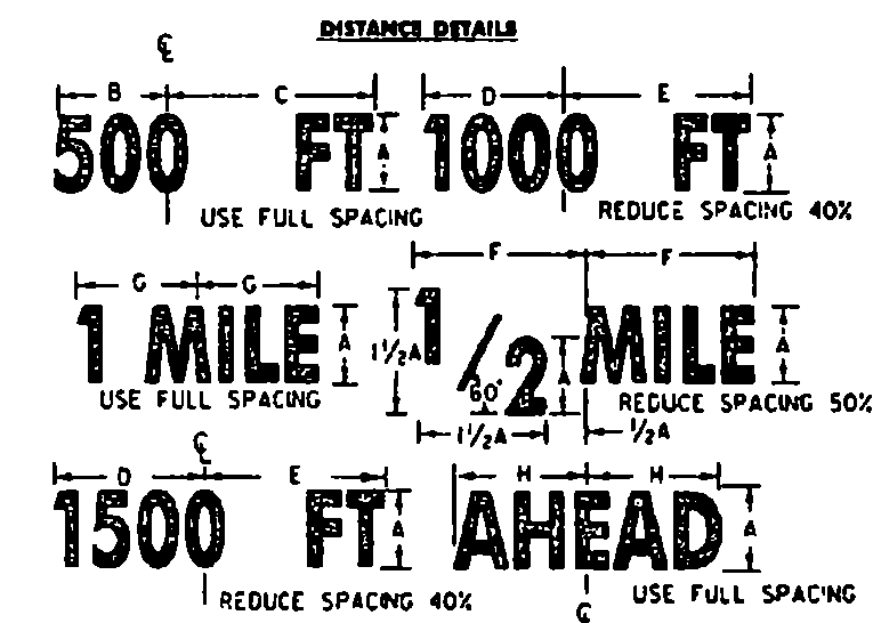
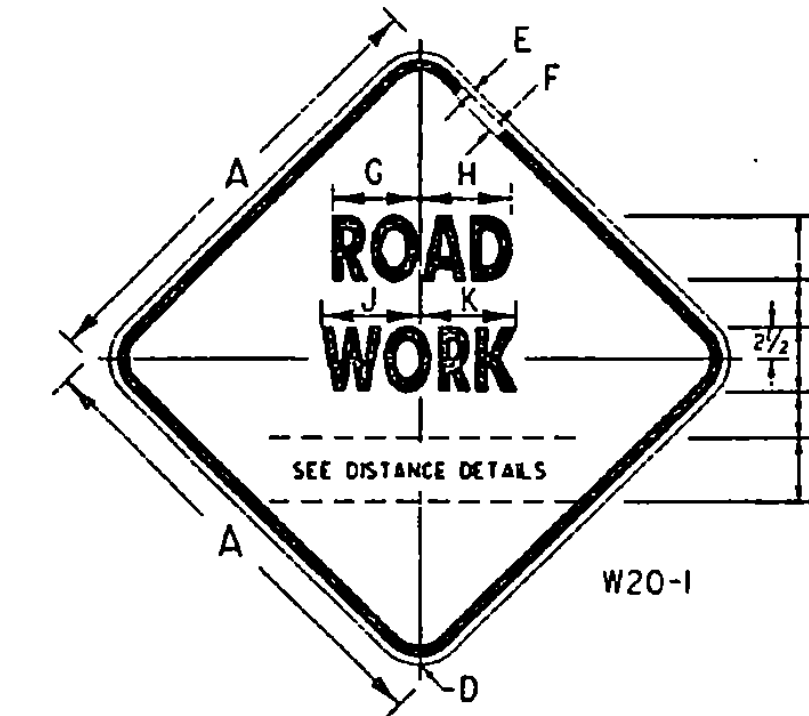


SIGN	A	B	C	D	E	F	G	H	J	K
2 LANE	36	3/8	7/8	5-D	4	2 1/2	1 1/4	3 1/4	2 1/4	2 1/4
4 LANE	48	3/4	1 1/4	7-D	5	3 1/2	2 1/4	4 1/4	3 1/4	3



SIGN	A	B	C	D	E	F	G	H	J
2 LANE	36	3/8	7/8	1/2	5-D	3 1/2	3 1/4	1 1/4	2 1/4
4 LANE	48	3/4	1 1/4	1	7-C	4	3 3/4	2 1/4	3

• REDUCE SPACING BY 40 %



NOTES:

REFLECTORIZATION:
ALL REFLECTIVE MATERIAL SHALL CONSIST OF ENCAPSULATED LENS REFLECTIVE SHEETING, THE TEXT AND BORDERS MAY BE SCREENED, LETTERING FILM, OR HAND PAINTED.

COLORS:
THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE A BLACK TEXT AND BORDER ON A REFLECTORIZED ORANGE BACKGROUND. THE ORANGE SHALL CONFORM WITH THE STANDARD COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE U.S. DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

TEXT DESIGN:
LETTERS, SPACING, AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGN PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS:
WARNING SIGNS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR SIGNS.

SIGN BASE MATERIAL:
THE SIGN BASE MATERIAL USED FOR THE WARNING SIGNS SHOWN ON THIS SHEET MAY BE OF ANY OF THE FOLLOWING, WITH MINIMUM THICKNESS AS NOTED:

	36X36	48X48	INCHES
(1) FLAT SHEET ALUMINUM	0.100	0.125	INCHES
(2) HIGH DENSITY OVERLAYED PLYWOOD	3/8	3/4	INCHES
(3) GALVANIZED SHEET STEEL	14	12	GAGE

REVISIONS AND CORRECTIONS
JAN. 26, 1972 - DATE OF ORIGINAL ISSUE
FEB. 29, 1972 - REVISED PER DIRECTION OF THE FEDERAL HIGHWAY ADMINISTRATION
MAY 14, 1974 - REFLECTIVE MATERIAL CHANGE
JUN. 8, 1977 - REFLECTIVE MATERIAL NOTE CHANGE
AUG. 10, 1977 - PERSON WORKING SIGN CHANGED TO SYMBOL
DEC. 9, 1981 - VINOR SIGN DIMENTION CHANGES
FEB. 3, 1986 - UPDATED TO 1986 SPECIFICATIONS
AUG. 08, 1995 - UPDATED TO 1993 CHAPTER 6 - M.U.T.C.D.

APPROVED

Stephen D. McArthur
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

TRAFFIC SIGNS TYPICAL MINOR MAINTENANCE OPERATION APPROACH SIGNS

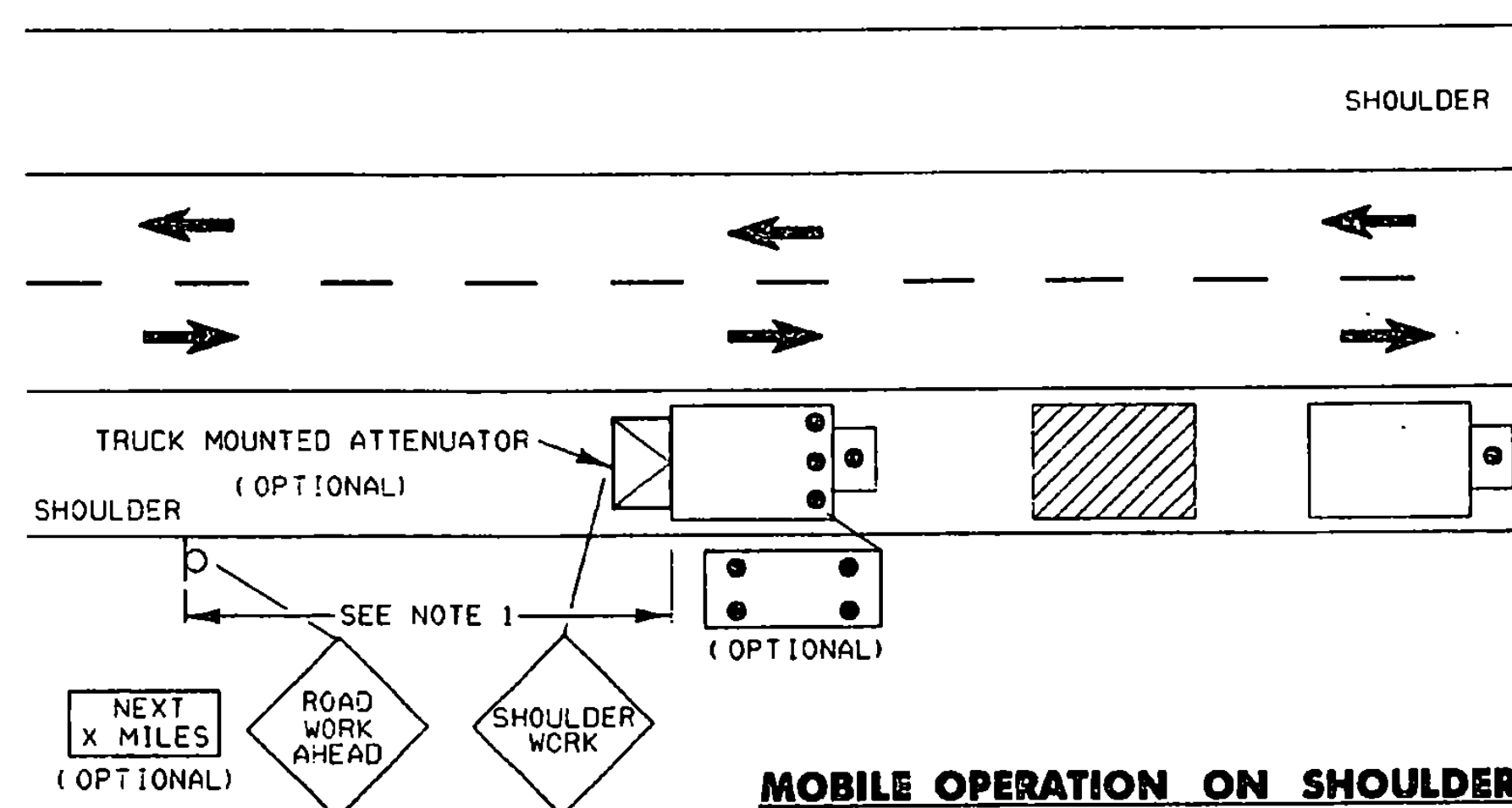
/traf/std/stdel0.dgn : steel0.i

**OTHER STDS. E-103
REQUIRED:**

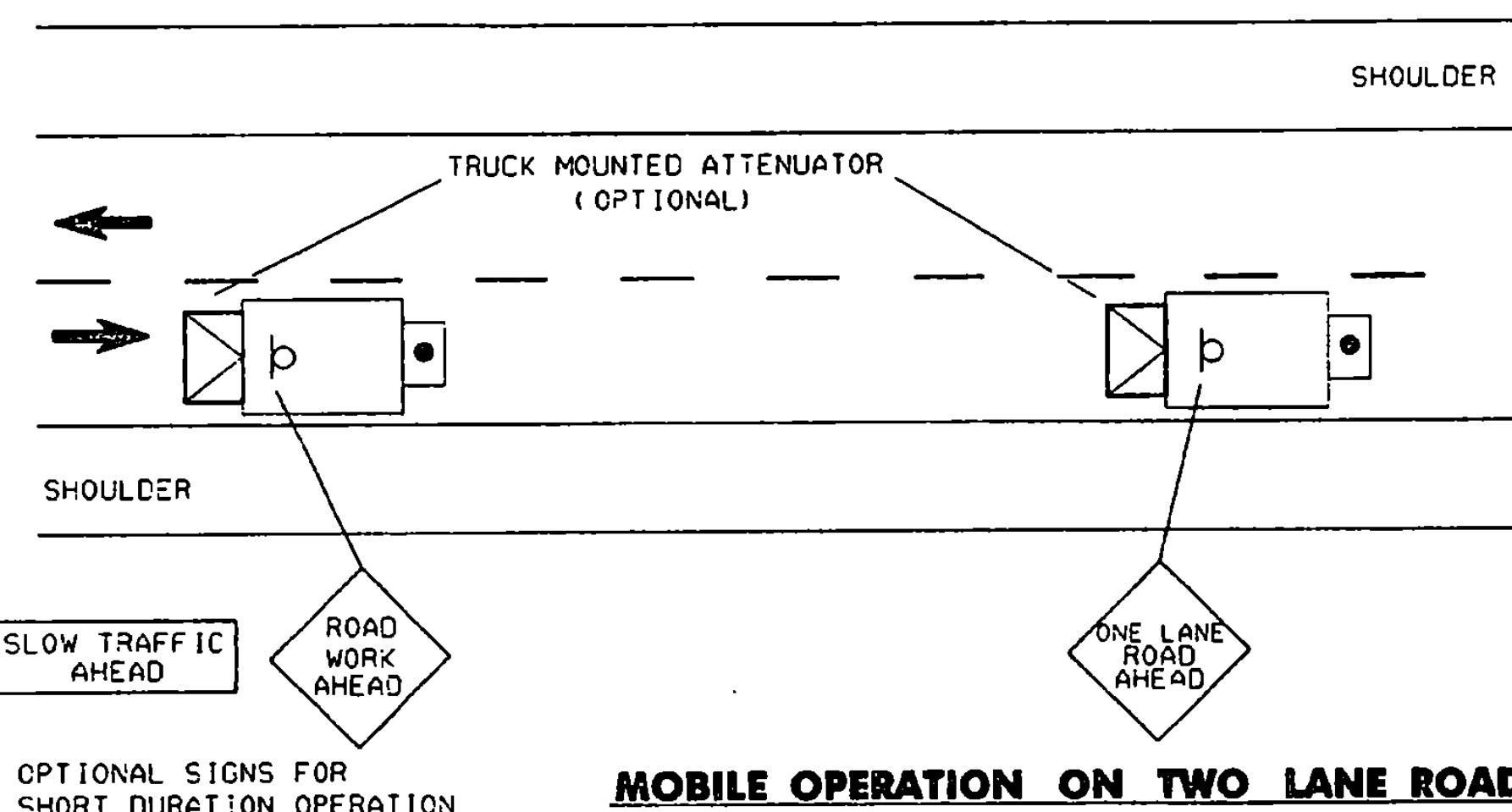


**STANDARD
E-10**

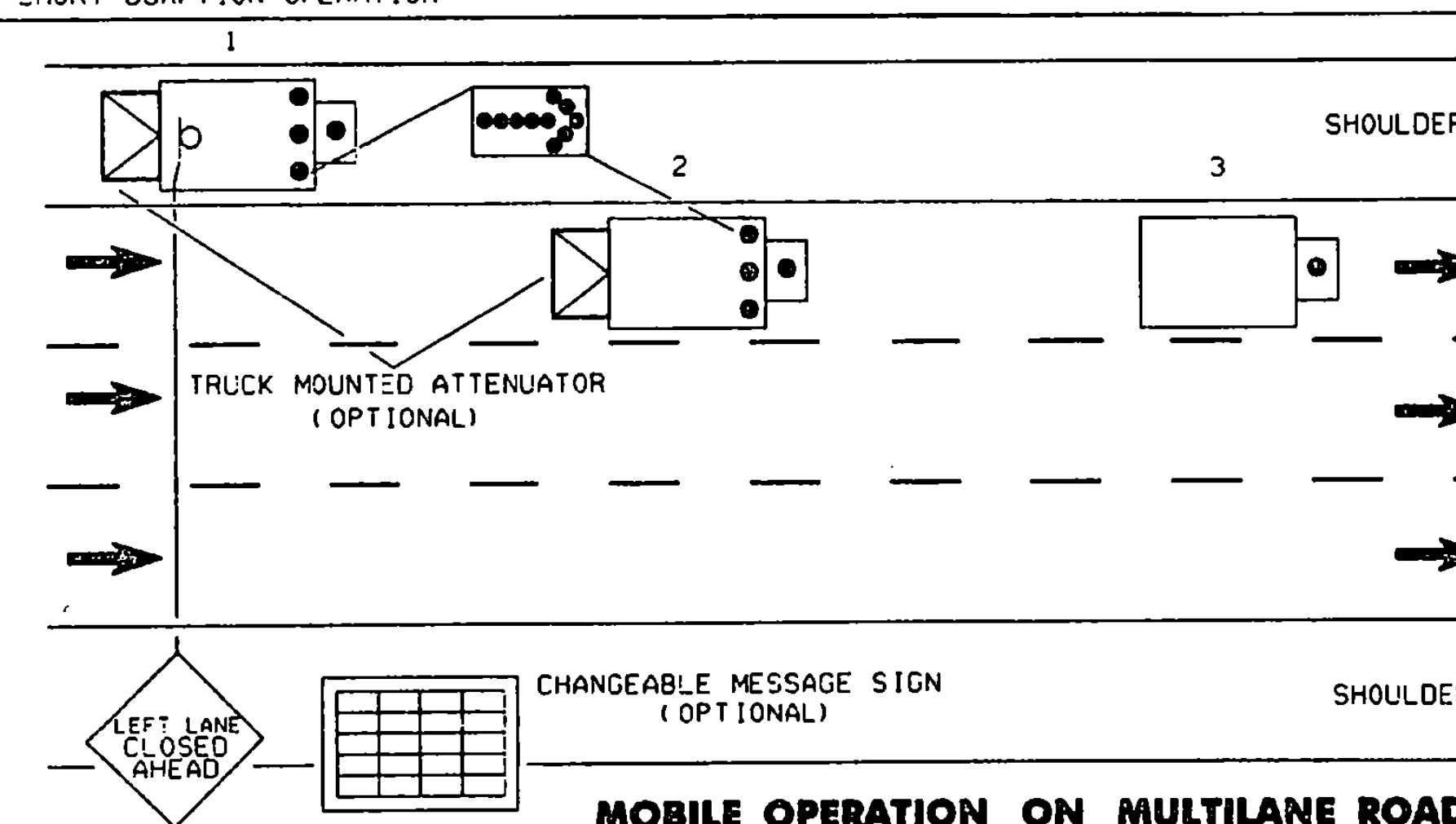
APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.



MOBILE OPERATION ON SHOULDER



MOBILE OPERATION ON TWO LANE ROAD



MOBILE OPERATION ON MULTILANE ROAD

NOTES:

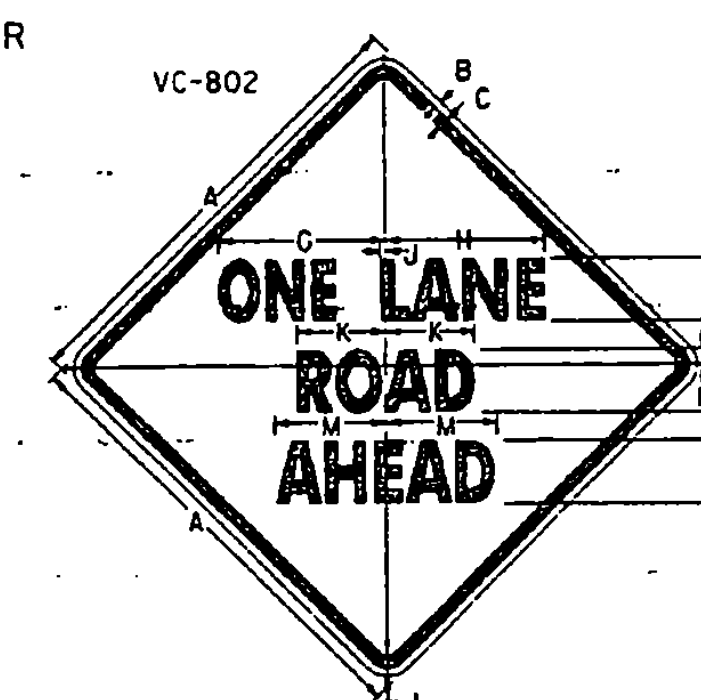
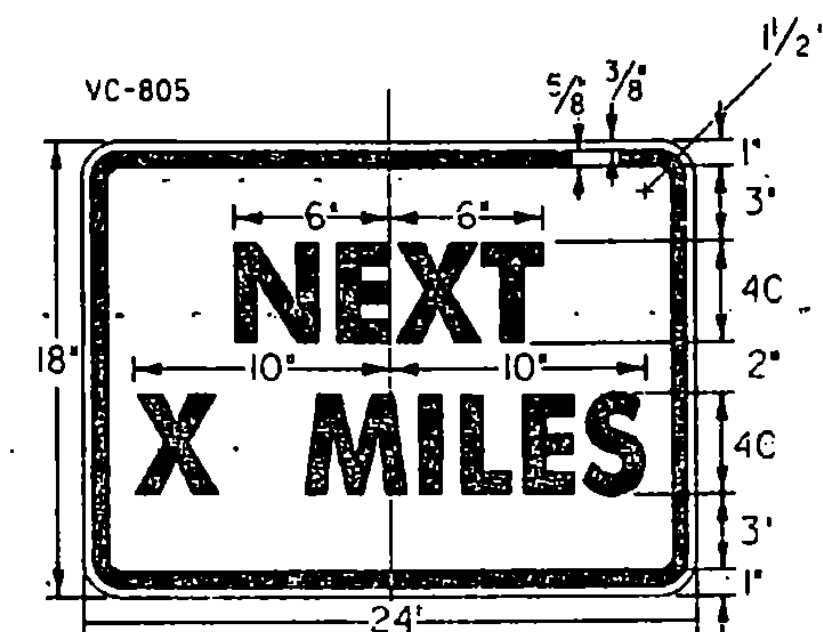
1. IN SITUATIONS WHERE MULTIPLE WORK LOCATIONS IN A LIMITED DISTANCE MAKE IT PRACTICABLE TO PLACE STATIONARY SIGNS, THE MAXIMUM SPACING FOR THE ADVANCE OF THE WORK.
2. THE LENGTH OF ACTIVITY AREA SIGN MAY BE USED AS THE STATIONARY ADVANCE WARNING SIGN IF THE WORK LOCATIONS OCCUR OVER A DISTANCE OF MORE THAN 2 MILES.
3. WARNING SIGNS ARE NOT REQUIRED IF THE WORK VEHICLE DISPLAYS A FLASHING OR REVOLVING YELLOW LIGHT, IF THE DISTANCE BETWEEN WORK LOCATIONS IS 1 MILE OR MORE, AND IF THE WORK VEHICLE TRAVELS AT TRAFFIC SPEEDS BETWEEN LOCATIONS.

NOTES:

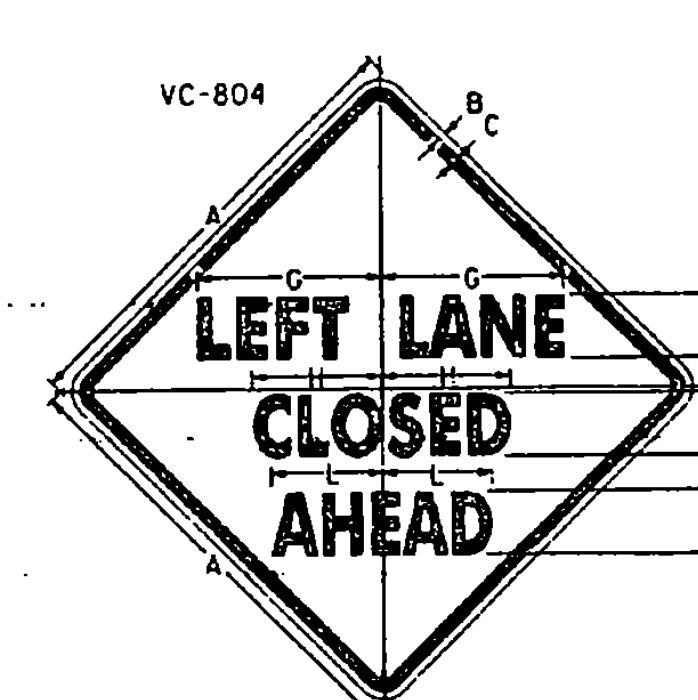
1. WHERE PRACTICABLE AND WHEN NEEDED, THE WORK AND PROTECTION VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS. IF THIS CAN NOT BE DONE FREQUENTLY, AS AN ALTERNATIVE, A DO NOT PASS SIGN MAY BE PLACED ON THE REAR OF THE VEHICLE BLOCKING THE LANE.
2. THE DISTANCE BETWEEN THE WORK AND PROTECTION VEHICLES MAY VARY ACCORDING TO TERRAIN, PAINT DRYING TIME, AND OTHER FACTORS. PROTECTION VEHICLES ARE USED TO WARN TRAFFIC OF THE OPERATION AHEAD. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, THE PROTECTION VEHICLE SHOULD MAINTAIN THE MINIMUM DISTANCE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. THE PROTECTION VEHICLE SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
3. ADDITIONAL PROTECTION VEHICLES TO WARN AND REDUCE THE SPEED OF ONCOMING OR OPPOSING TRAFFIC MAY BE USED. POLICE PATROL CARS MAY BE USED FOR THIS PURPOSE.
4. A TRUCK - MOUNTED ATTENUATOR (TMA) SHALL BE USED ON THE PROTECTION VEHICLE AND SHOULD BE CONSIDERED ON THE WORK VEHICLE.
5. THE WORK VEHICLE SHALL BE EQUIPPED WITH BEACONS, AND THE PROTECTION VEHICLES SHALL BE EQUIPPED WITH A TMA AND TWO HIGH - INTENSITY FLASHING LIGHTS MOUNTED ON THE REAR, ADJACENT TO THE SIGN. PROTECTION AND WORK VEHICLES SHOULD DISPLAY FLASHING OR ROTATING BEACONS BOTH FORWARD AND TO THE REAR.
6. VEHICLE - MOUNTED SIGNS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGN, AT A MINIMUM HEIGHT OF 4 FEET ABOVE THE PAVEMENT. SIGN LEGENDS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.
7. ARROW DISPLAYS ARE OPTIONAL AND SHOULD BE TYPE B, 60 INCHES BY 30 INCHES.

NOTES:

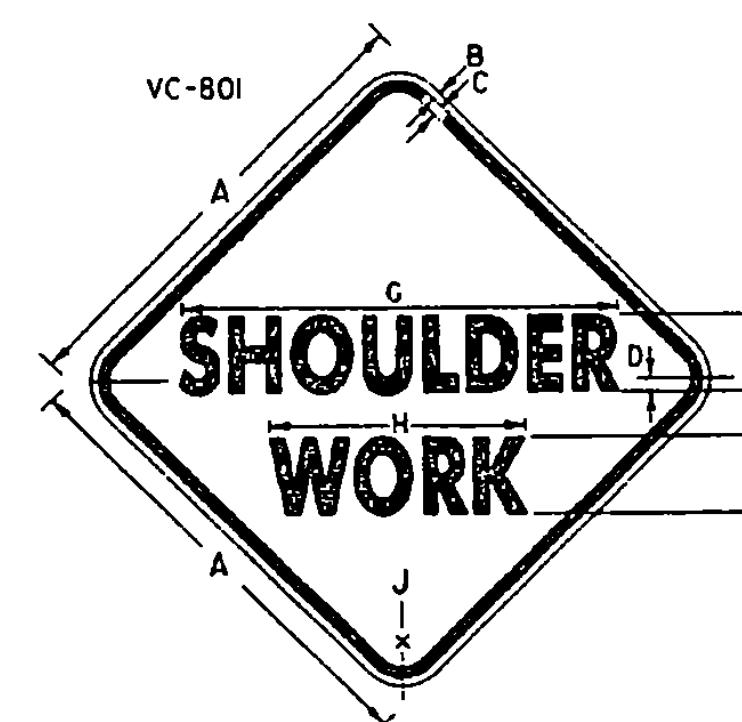
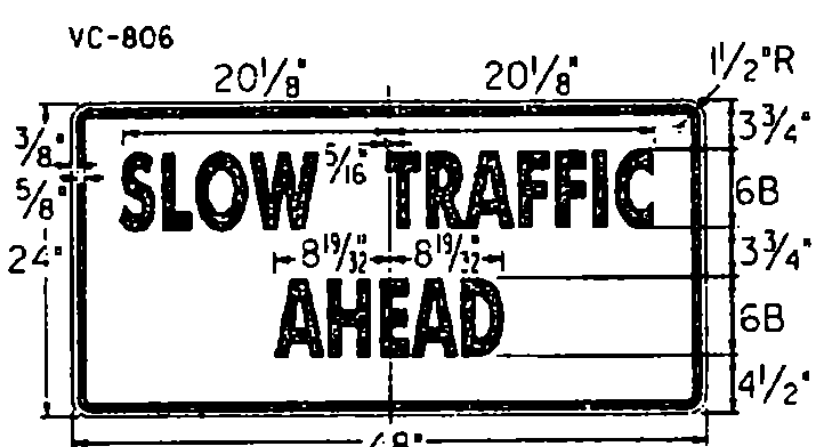
1. VEHICLES USED FOR THESE OPERATIONS SHOULD BE MADE HIGHLY VISIBLE WITH APPROPRIATE EQUIPMENT, SUCH AS FLASHING LIGHTS, ROTATING BEACONS, FLAGS, SIGN, OR ARROW DISPLAYS.
2. PROTECTION VEHICLE #1 SHOULD BE EQUIPPED WITH AN ARROW DISPLAY. AN APPROPRIATE LANE CLOSURE SIGN SHOULD BE PLACED ON PROTECTION VEHICLE #1 SO AS NOT TO OBSCURE THE ARROW DISPLAY.
3. PROTECTION VEHICLE #2 SHOULD BE EQUIPPED WITH AN ARROW DISPLAY AND TRUCK - MOUNTED ATTENUATOR.
4. PROTECTION VEHICLE #1 SHOULD TRAVEL AT A VARYING DISTANCE FROM THE WORK OPERATION SO AS TO PROVIDE ADEQUATE SIGHT DISTANCE FOR TRAFFIC APPROACHING FROM THE REAR.
5. WHEN ADEQUATE SHOULDER WIDTH IS NOT AVAILABLE, PROTECTION VEHICLE #1 SHOULD BE ELIMINATED.
6. ON HIGH - SPEED ROADWAYS, A THIRD PROTECTION VEHICLE SHOULD BE USED - VEHICLE #1 ON THE SHOULDER (IF POSSIBLE), VEHICLE #2 IN THE CLOSED LANE, AND VEHICLE #3 IN THE CLOSED LANE.
7. ARROW DISPLAYS SHALL BE AS A MINIMUM TYPE B, 60 INCHES BY 30 INCHES (FIGURE V1 - 9, SECTION 6F - 3).
8. WORK SHOULD NORMALLY BE DONE DURING OFF - PEAK HOURS.



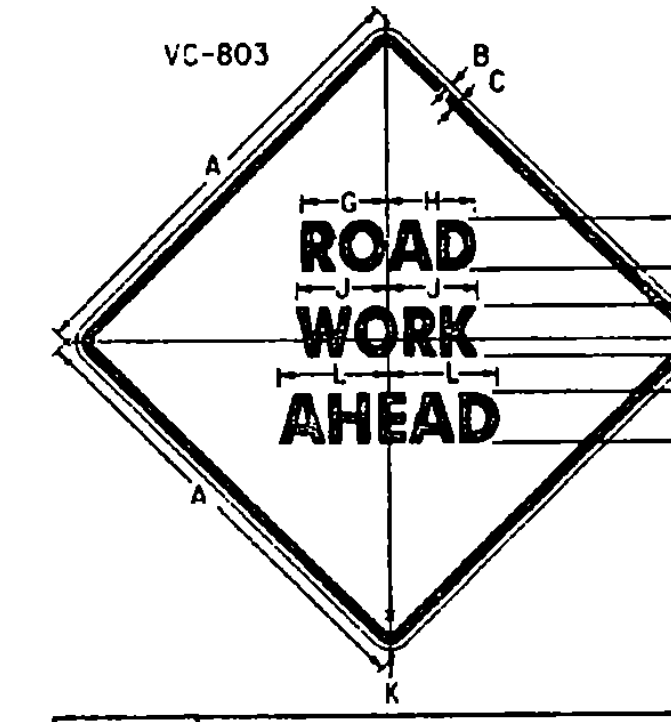
SIGN	A	B	C	D	E	F	G	H	J	K	L	M
MIN.	36	3/8	1/4	5C	2 1/4	1 1/4	3 3/8	12 3/8	3/8	7	2 1/4	8 3/4
STD.	48	3/4	1/4	7C	3 3/8	1 3/4	18 3/8	17 3/8	1/2	9 3/8	3	13 3/8



SIGN	A	B	C	D	E	F	G	H	J	K	L
MIN.	36	3/8	1/4	5C	2 3/4	3/8	15 3/8	10 1/4	2 1/4	14 1/2	8 3/8
STD.	48	3/4	1/4	6C	3 3/8	1/2	19	12 3/8	3	17 3/8	10 3/8



SIGN	A	B	C	D	E	F	G	H	J
2 LANE	36	3/8	1/4	1	5-D	3 1/2	34 1/8	17 1/8	2 1/4
4 LANE	48	3/4	1/4	1	7-C	4	38 1/8	20 1/4	3



SIGN	A	B	C	D	E	F	G	H	J	K	L
MIN.	30	1/2	3/4	4D	2 1/2	2 3/8	6 3/4	7	7 3/8	1 3/8	8 3/8
STD.	36	3/8	3/4	5D	3 1/2	3 3/8	8 3/8	8 3/8	9	2 1/4	10 3/8
SPECIAL	48	3/4	1/4	7D	4 3/4	4 1/2	11 3/8	12 3/8	12 3/8	3	15 3/8

NOTES:

1. OPTICALLY CENTER SYMBOLS WITHIN SECTIONS UNLESS OTHERWISE NOTED.
2. "VC-9XX" IS THE SIGN CODE NUMBER.
3. MIRROR IMAGES ARE NOT SHOWN BUT CARRY THE SAME CODE NUMBER.
4. THESE SIGN ARE INTENDED FOR GROUND MOUNTING ONLY.
5. OTHER VARIATIONS OF THESE STANDARD DESIGNS ARE DEPICTED IN THE VT SIGN IDENTIFICATION MANUAL. WHEN THEY ARE USED THEY SHOULD BE DESIGNED USING THE DIMENSIONS AND DETAILS SHOWN HERE.

OTHER STDS. REQUIRED:

REVISIONS AND CORRECTIONS

- JAN. 26, 1972 - DATE OF ORIGINAL ISSUE
- FEB. 29, 1972 - REVISED PER DIRECTION OF THE FEDERAL HIGHWAY ADMINISTRATION
- MAY 14, 1974 - REFLECTIVE MATERIAL CHANGE
- JUN. 8, 1977 - REFLECTIVE MATERIAL NOTE CHANGE SIGNS REFERENCED TO NUMBERS IN M.U.T.C.D.
- AUG. 10, 1977 - PERSON WORKING SIGN CHANGED TO SYMBOL
- DEC. 9, 1981 - MINOR SIGN DIMENTION CHANGES.
- FEB. 3, 1986 - UPDATED TO 1986 SPECIFICATIONS
- AUG. 8, 1995 - UPDATED TO 1993 MUTCD - CHAPTER 6

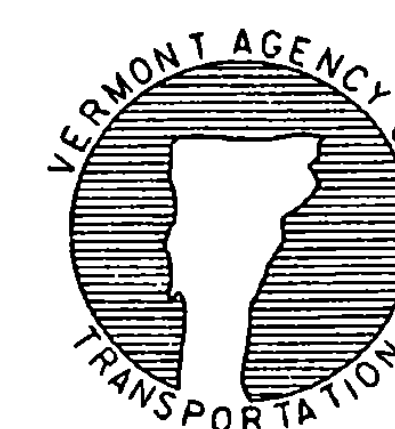
APPROVED

Stephen R. The Allen
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

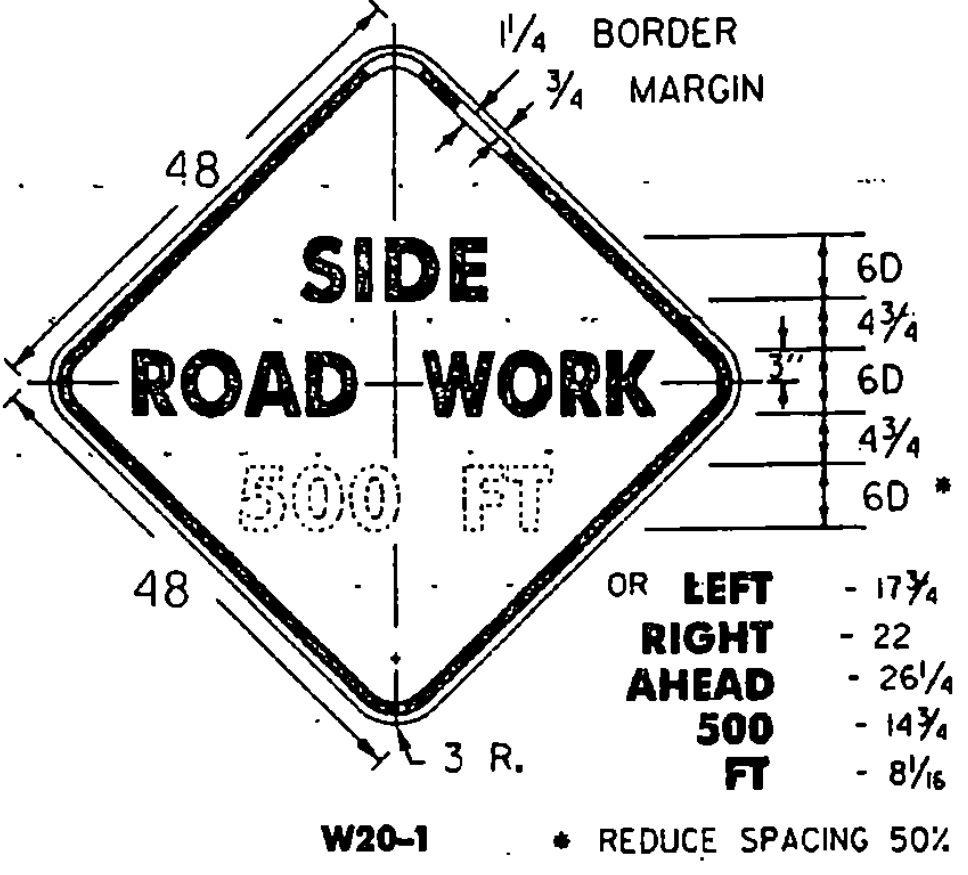
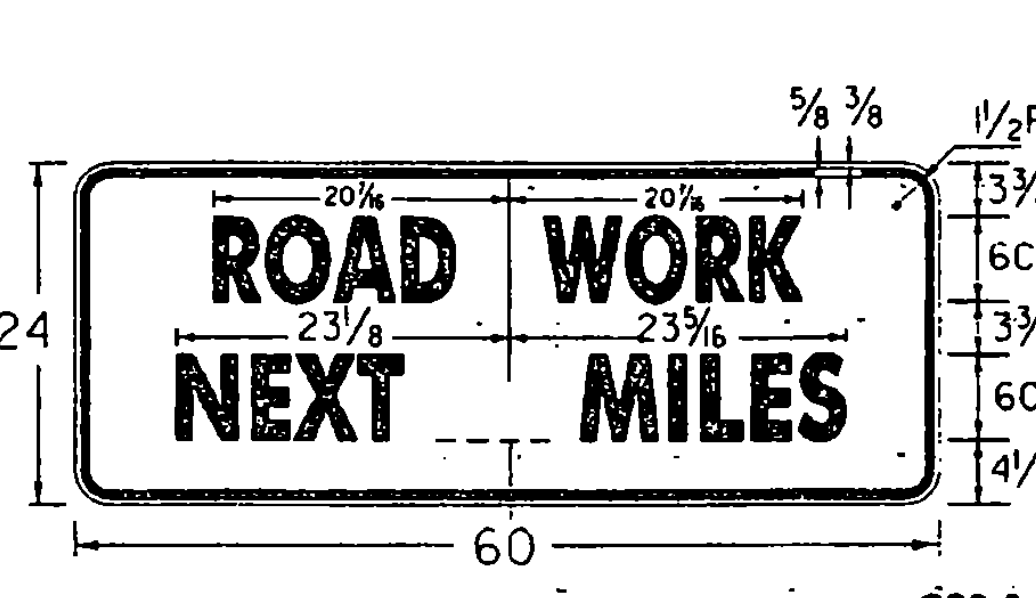
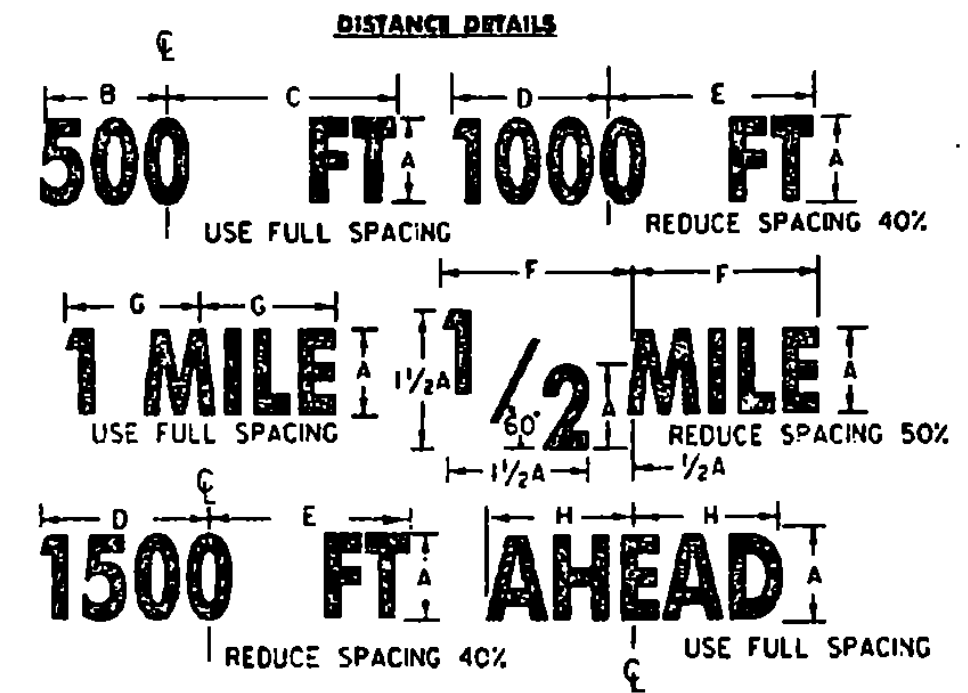
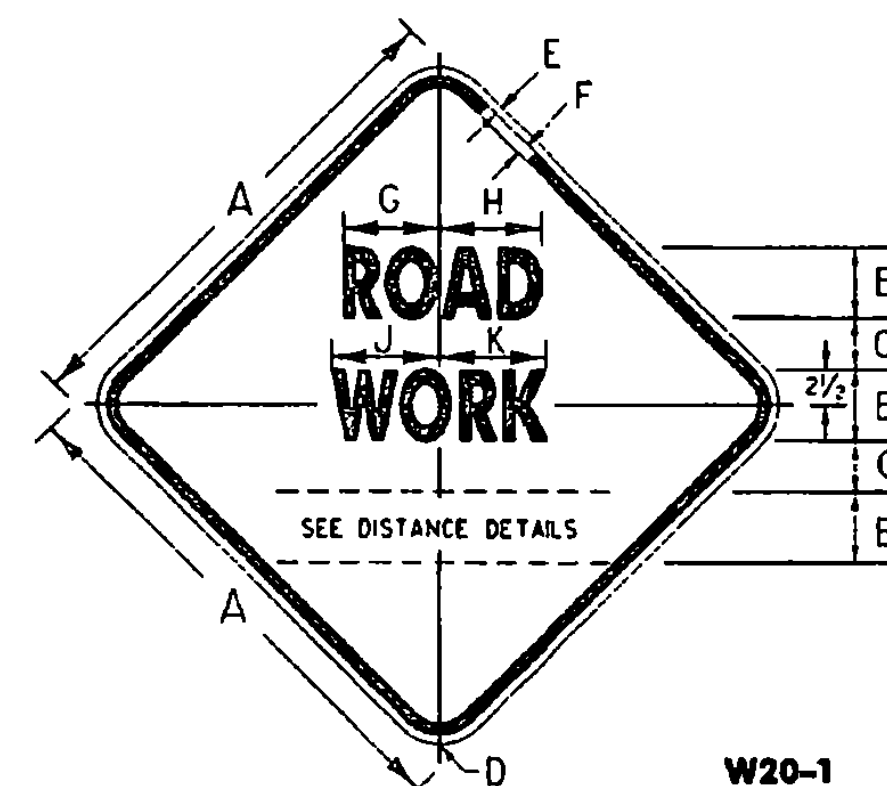
TRAFFIC CONTROL FOR TYPICAL MOVING MAINTENANCE OPERATIONS

/traf/std/stdel0a.dgn : stdel0a.l



**STANDARD
E-10A**

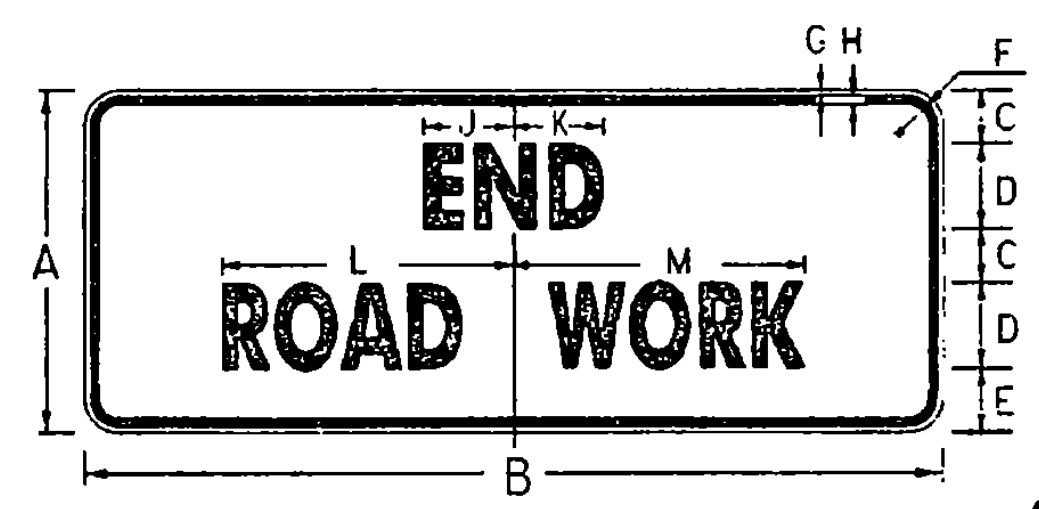
APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.



THIS SIGN TO BE USED WHEN PROJECT LENGTH EXCEEDS 2 MILES OR AS REQUESTED BY THE RESIDENT ENGINEER. SHOW MILEAGE TO NEAREST 1/4 MILE USING FRACTIONS, NOT DECIMALS. HAND LETTERING OF MILEAGE WILL NOT BE ALLOWED. (ALL DIMENSIONS SHOWN IN INCHES)

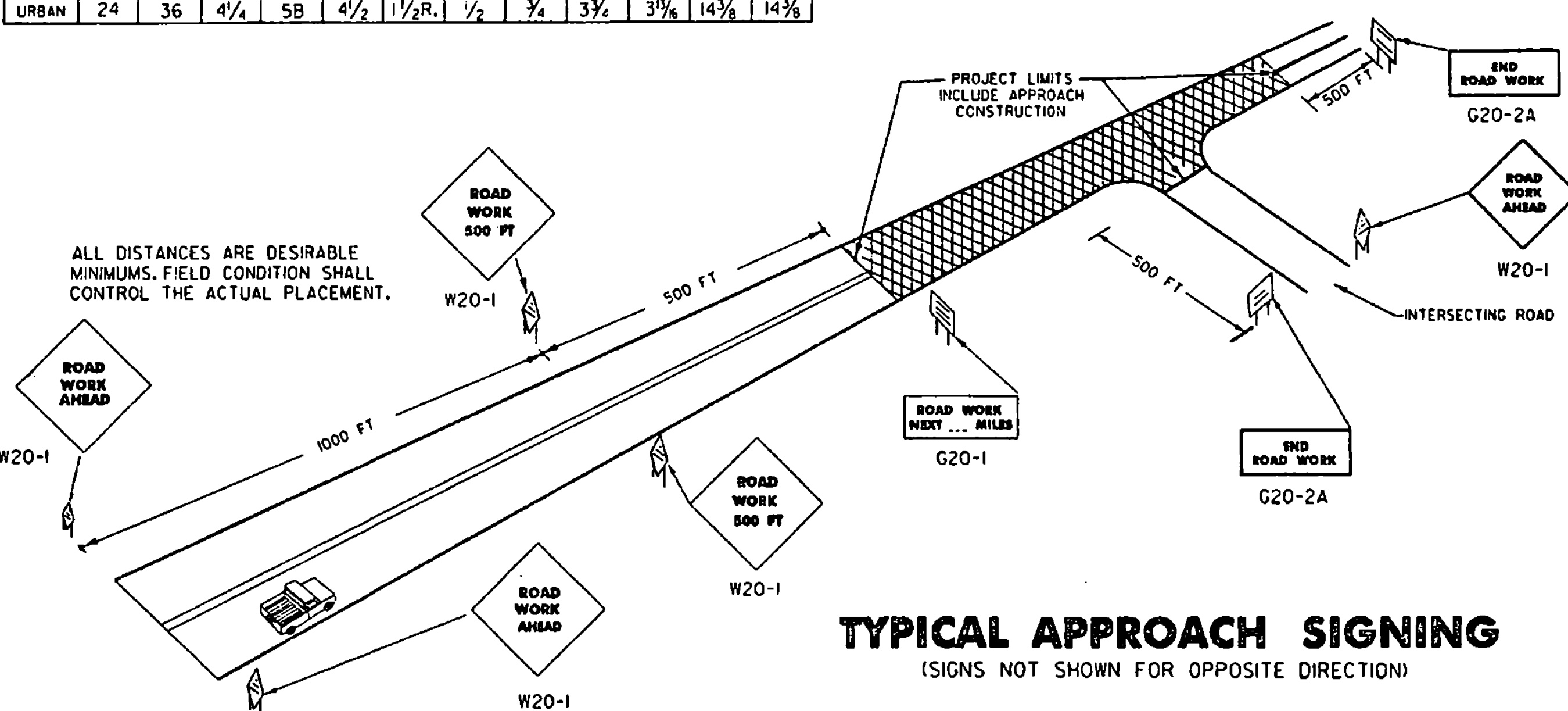
DIMENSIONS (INCHES)										
STD.	A	B	C	D	E	F	G	H	J	K
STD.	48	7C	4 3/4	3" R.	3/4	1 1/4	9 1/2	9 1/2	10 1/2	10 1/2
URBAN	36	5C	3 3/8	2 1/4 R.	3/8	7/8	6 1/8	7 1/8	7 1/2	7 3/8

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	H
5D	10 3/4	10 3/4	8 3/4	11 1/4	11 1/4	9 1/2	10 1/2
6C	10 3/4	10 3/4	11 1/4	12	12 1/2	9 1/8	10 1/2
7C	12	12 3/4	13 3/4	14	14 3/4	10 3/8	12 1/4
8D	16 1/4	17 1/4	17	18	18	14 3/8	17 3/4



DIMENSIONS (INCHES)												
STD.	A	B	C	D	E	F	G	H	J	K	L	M
STD.	24	60	3 3/4	6C	4 1/2	1 1/2 R.	3/8	5/8	6 1/4	6 3/8	20 1/8	20 1/8
URBAN	24	36	4 1/4	5B	4 1/2	1 1/2 R.	1/2	3/4	3 3/4	3 3/8	14 3/8	14 3/8

(ALL DIMENSIONS SHOWN IN INCHES UNLESS OTHERWISE NOTED)



TYPICAL APPROACH SIGNING
(SIGNS NOT SHOWN FOR OPPOSITE DIRECTION)

NOTES

THE SIGNS SHOWN ON THIS SHEET ARE INTENDED FOR USE IN PROVIDING ADVANCE WARNING AND INFORMATION ON CONSTRUCTION PROJECTS OVER WHICH TRAFFIC WILL BE MAINTAINED. WHEN ADDITIONAL APPROACH SIGNS OR OTHER TYPES OF ADVANCE SIGNING OR CONTROL ARE NECESSARY, THE PLANS AND/OR THE SPECIFICATIONS FOR THAT PROJECT WILL GIVE THE DETAILS OF THE SIGNS AND DEVICES REQUIRED. FOR ON-PROJECT CONSTRUCTION SIGNS, REFER TO APPROPRIATE STANDARD SHEETS.

APPLICATION OF STANDARDS

SINCE IT IS NOT POSSIBLE TO PRESCRIBE DETAILED STANDARDS OF APPLICATION FOR ALL OF THE SITUATIONS THAT MAY CONCEIVABLY ARISE ON A CONSTRUCTION PROJECT, REFERENCE SHALL BE MADE TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" FOR THE PRINCIPLES, PROCEDURES, AND STANDARDS THAT WILL BE REQUIRED IN CONNECTION WITH ADVANCED WARNING AND ON-PROJECT CONSTRUCTION SIGNS AND BARRICADES. THE SIGNS SHOWN IN E-101 AND E-102 REPRESENT A SAMPLE OF THOSE MORE COMMONLY USED.

LOCATION

THE SIGNS SHALL BE LOCATED AS DETAILED ON THIS SHEET OR AS OTHERWISE SHOWN ON THE PLANS. THEY SHALL APPEAR AT EACH END OF THE HIGHWAY UNDER CONSTRUCTION AND ON ALL INTERSECTING PUBLIC HIGHWAYS. THE EXACT PLACEMENT OF ANY SIGN WILL DEPEND UPON THE ALIGNMENT INTENDED TO INDICATE THE SEQUENCE TO BE FOLLOWED, AND THE APPROXIMATE SPACING TO BE OBSERVED. THE ENGINEER SHALL DETERMINE THE EXACT LOCATIONS.

DESIGN

THE DESIGN OF THE SIGNS SHALL CONFORM WITH THE DETAILS SHOWN ON THIS SHEET AND WITH THE STANDARDS PRESCRIBED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

MATERIALS

THE SIGN BASE MATERIAL USED FOR THE SIGNS ON THIS SHEET MAY BE ANY OF THE FOLLOWING, WITH MINIMUM THICKNESS AS NOTED.

FLAT SHEET ALUMINUM	0.125 INCHES
HIGH DENSITY OVERLAYERED PLYWOOD	1/2, 5/8, OR 3/4 INCHES
GALVANIZED SHEET STEEL	12 GAUGE

REFLECTORIZATION

ALL REFLECTORIZED MATERIAL SHALL CONSIST OF TYPE 11B OR TYPE 111 SHEETING.

COLORS

THE COLORS SHALL CONFORM WITH THE STANDARD COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION. FEDERAL HIGHWAY ADMINISTRATIVE COLORS SHOWN ON THIS SHEET CONSIST OF BLACK TEXT AND BORDER ON A REFLECTORIZED ORANGE BACKGROUND.

INSTALLATION

THE SIGNS SHALL BE ERECTED BEFORE THE START OF ANY WORK AND SHALL BE COVERED UNTIL WORK COMMENCES. DURING PERIODS OF INACTIVITY, OR UPON COMPLETION OF THE WORK, SIGNS MAY BE REMOVED UPON COMPLETION OF THE WORK AT THE DISCRETION OF THE ENGINEER. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER ON POSTS SET SECURELY IN THE GROUND. THE BOTTOM OF A SIGN SHALL BE AT LEAST 7 FEET ABOVE THE EDGE OF PAVEMENT, AND THE NEAREST EDGE OF A SIGN SHALL BE AT LEAST 6 FEET OUTSIDE THE SHOULDER POINT, 4 FEET OUTSIDE GUARD RAIL, OR 2 FEET OUTSIDE CURBING, OR SIDEWALK. THE INSTALLATION OF SIGNS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. IN URBAN AREAS, THE BOTTOM OF THE SIGN SHALL BE AT LEAST 7 FEET ABOVE THE SIDEWALK.

MAINTENANCE

SIGNS SHALL BE MAINTAINED IN A CLEAN AND LEGIBLE CONDITION SATISFACTORY TO THE ENGINEER. THEY SHALL BE COMPLETELY VISIBLE TO APPROACHING TRAFFIC AT ALL TIMES. THEY SHALL BE KEPT PLUMB AND LEVEL, AND ALWAYS PRESENT A NEAT APPEARANCE. DAMAGED, DEFACED, OR DIRTY SIGNS SHALL BE REPAIRED, CLEANED OR REPLACED AS ORDERED BY THE ENGINEER.

NOTES CONT.

GENERAL

THE COST OF FURNISHING, INSTALLING, MAINTAINING AND REMOVING ALL CONSTRUCTION APPROACH SIGNS WILL BE CONSIDERED SUBSIDIARY WORK PERTAINING TO THE PROJECT AS A WHOLE AND SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE BID FOR VARIOUS ITEMS INVOLVED IN THE CONTRACT. DURING ALL PHASES OF CONSTRUCTION THE REQUIREMENTS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE MET. WHEN THE PROJECT IS CLOSED DOWN FOR TEMPORARY PERIODS THE SIGNS SHALL BE COVERED IN A WORKMANLIKE MANNER.

SIGN COVERS

SIGN COVERS SHALL CONSIST OF A PANEL PAINTED FLAT BLACK. THE SAME SIZE AS THE SIGN IT COVERS. THE PANEL SHALL BE OF WOOD, PLYWOOD, MASONRY OR ANY MATERIAL SATISFACTORY TO THE ENGINEER. NO MATERIAL WILL BE APPROVED THAT WILL DETERIORATE BY EXPOSURE TO THE WEATHER DURING THE PROJECT. MOUNTING OF THE PANEL SHALL BE DONE IN SUCH A WAY AS NOT TO DAMAGE THE SIGN FACE MATERIAL.

CONTRACTORS SHALL COORDINATE THEIR SIGNING ACTIVITIES WITH OTHER CONTRACTORS WITHIN THE PROJECT LIMITS, AS DIRECTED BY THE REGIONAL CONSTRUCTION ENGINEER.

SIGN POSTS

WHERE CONSTRUCTION SIGN INSTALLATIONS ARE NOT PROTECTED BY GUARD RAIL OR OTHER APPROVED TRAFFIC BARRIERS, THE POSTS ON WHICH THE SIGNS ARE MOUNTED SHALL BE YIELDING METAL POSTS AS DESIGNATED IN THE E-SERIES OF STANDARD DRAWINGS OR YIELDING WOODEN POSTS IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:

WOODEN POSTS ARE ACCEPTABLE FOR USE WITH CONSTRUCTION SIGNS. THESE POSTS SHALL HAVE A UNIFORM CROSS-SECTION AND SHALL BE MADE FROM GRADE 2, AIR-DRIED SOUTHERN YELLOW PINE OR ANOTHER EQUIVALENT SOFTWOOD. AN ACCEPTABLE EQUIVALENT SOFTWOOD SHALL HAVE AN EXTREME FIBER IN BENDING "FB" DESIGN VALUE NOT TO EXCEED 1000 psi AND HORIZONTAL SHEAR "FV" DESIGN VALUE NOT TO EXCEED 90 psi SPECIFICATION "DESIGN VALUES FOR WOOD CONSTRUCTION" AND RELATED SUPPLEMENT, DATED 1986.

AS ESTABLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION IN THEIR NATIONAL DESIGN THE FOLLOWING ARE CONSIDERED TO BE ACCEPTABLE WOODEN POSTS:

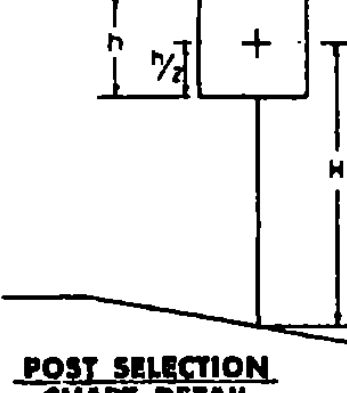
- 4" x 4" (ACTUAL DIMENSIONS ARE 3.5" x 3.5")
 - ACCEPTABLE FOR SINGLE OR DUAL POSTS INSTALLATION WITH NO MODIFICATIONS.
 - ACCEPTABLE FOR THREE POSTS (OR MORE) INSTALLATION ONLY WHEN THERE ARE NO MORE THAN TWO POSTS IN A 7 FOOT PATH.
- 4" x 6" (ACTUAL DIMENSIONS ARE 3.5" x 5.5")
 - ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 1 1/2" DIAMETER HOLES, ONE AT 4" AND THE OTHER 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTERLINE.
 - ACCEPTABLE FOR MULTIPLE POSTS (TWO OR MORE) INSTALLATIONS ONLY WHEN MODIFIED AS ABOVE AND THE MINIMUM SPACING BETWEEN POSTS IS 7 FEET.
- 6" x 6" (ACTUAL DIMENSIONS ARE 5.5" x 5.5")
 - ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 2" DIAMETER HOLES, ONE AT 4" AND THE OTHER AT 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO ROADWAY CENTERLINE.
 - ACCEPTABLE FOR MULTIPLE POST INSTALLATION ONLY WHEN MODIFIED AS ABOVE AND THE MINIMUM SPACING BETWEEN POSTS IS 7 FEET.
- 6" x 8" (ACTUAL DIMENSIONS ARE 5.5" x 7.5")
 - ACCEPTABLE FOR SINGLE POST INSTALLATIONS ONLY WHEN MODIFIED BY DRILLING TWO 3" DIAMETER HOLES, ONE AT 4" AND THE OTHER AT 18" ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTERLINE.
 - ACCEPTABLE FOR MULTIPLE POST INSTALLATIONS ONLY WHEN MODIFIED AS ABOVE AND THE MINIMUM SPACING BETWEEN POSTS IS 7 FEET.

ADDITIONAL DESIGN CRITERIA

THE LONGER DIMENSION OF THE POST(S), SUCH AS THE 6" DIMENSION OF THE 4" x 6" POST, SHALL BE PLACED PARALLEL TO THE ROADWAY CENTERLINE. ALL WOODEN POSTS SHALL HAVE AN EMBEDMENT DEPTH OF 4 FEET. NO CROSS-BRACING OR BACK-BRACING TO KEEP THE POSTS PLUMB WILL BE ALLOWED. CONCRETE FOUNDATIONS COLLARS OR SOIL BEARING PLATES ARE NOT PERMITTED. CONSTRUCTION SIGNS SHALL BE PLACED ON TWO OR MORE POSTS WHEN ANY OF THE FOLLOWING CONDITIONS GOVERN:

- THE SIGN WIDTH (HORIZONTAL DIMENSIONS FOR DIAMOND SHAPED SIGNS) EXCEEDS 3 1/2 FEET.
- THE EXPOSED SIGN AREA OF ANY SINGLE SIGN OR ASSEMBLY EXCEEDS 12 1/2 SQ. FEET.
- THE SV OF A SINGLE POST IS EXCEEDED. (SEE THE POST SELECTION CHART BELOW).

WOOD POST SELECTION CHART		
SIGN AREA (FT ²) X HEIGHT (FT) ≤ SV (SELECTION VALUE)		
POST SIZE	SV	DESIGN CRITERIA
4" x 4"	64	WIND SPEED = 60 MPH (10-YEAR MEAN OCCURRENCE INTERVAL)
4" x 6"	147	WIND PRESSURE = 13 psf
6" x 6"	216	ALLOWABLE BENDING STRESS
6" x 8"	389	



OTHER STDS. REQUIRED:

REVISIONS AND CORRECTIONS

MAY 26, 1989 - DATE OF ORIGINAL ISSUE

OCT 21, 1992 - REVISED WOOD POST REQUIREMENTS, ADDED SIGN DETAILS, & REVISED TITLE BLOCK

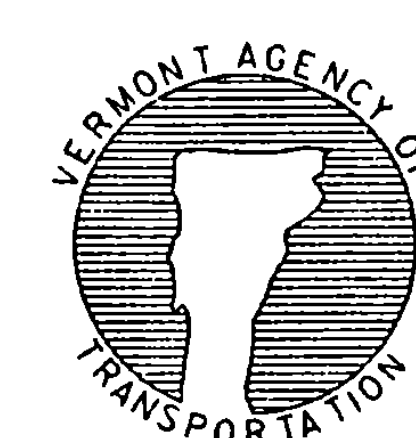
AUG 08, 1995 - MINOR NOTE REVISIONS

APPROVED

Sandra M. McArthur
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

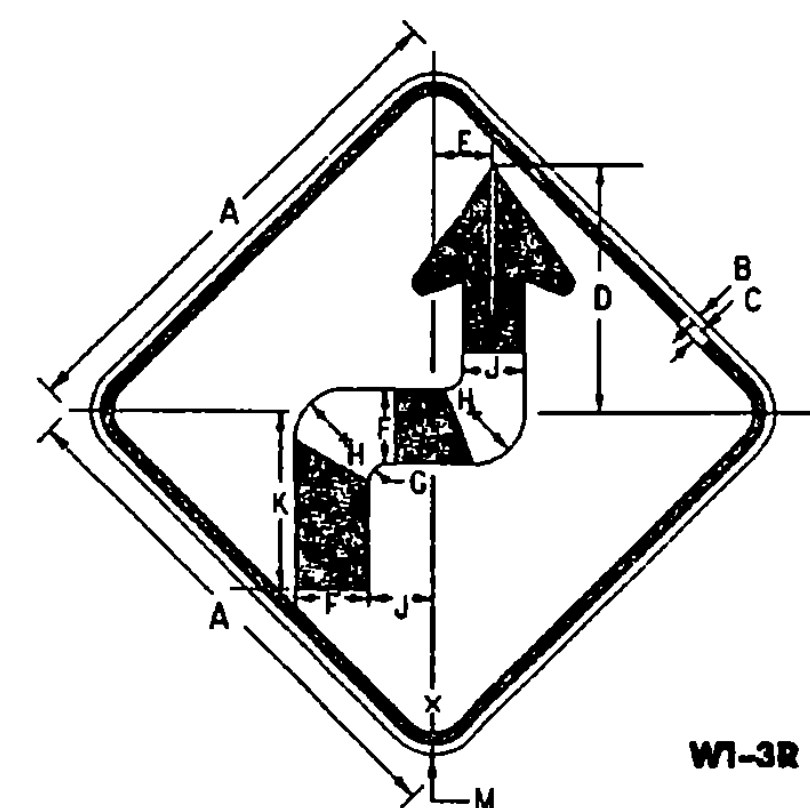
CONSTRUCTION APPROACH SIGNS



STANDARD
E-100

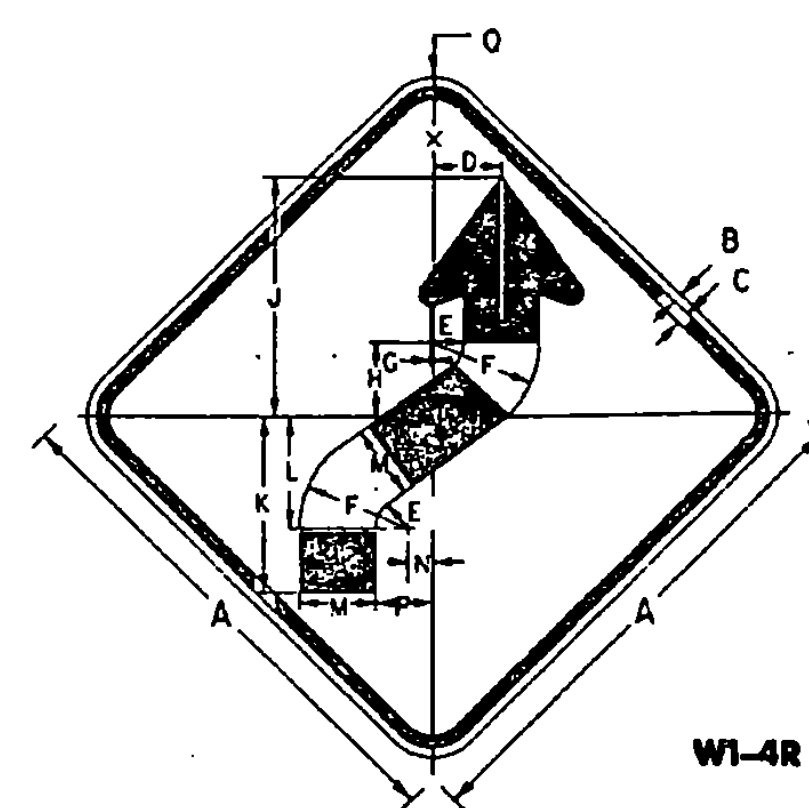
APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FHWA FINAL APPROVAL PENDING.

/traf/std/stdel00.dgn : stdel00.i



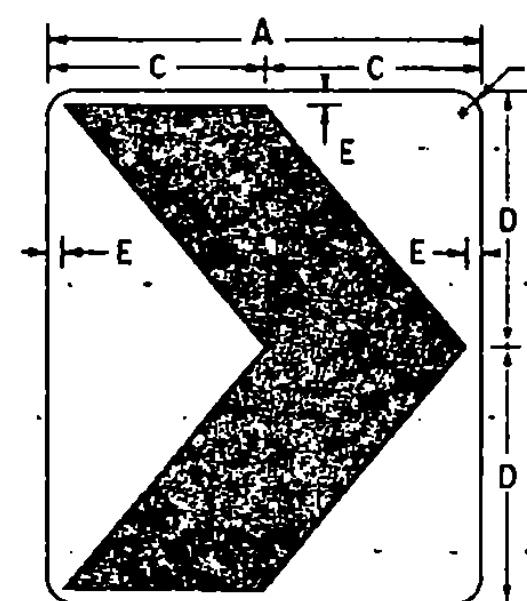
W1-3R

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	
STD. & MIN.	36	5/8	7/8	17 1/8	47 1/2	5 1/4	1 1/4	3 3/8	4 1/2	12 5/8	1 3/8	2 1/4	
SPECIAL	48	3/4	1 1/4	23 3/8	55	7	1 5/8	4 7/8	6	16 5/8	2 3/8	3	



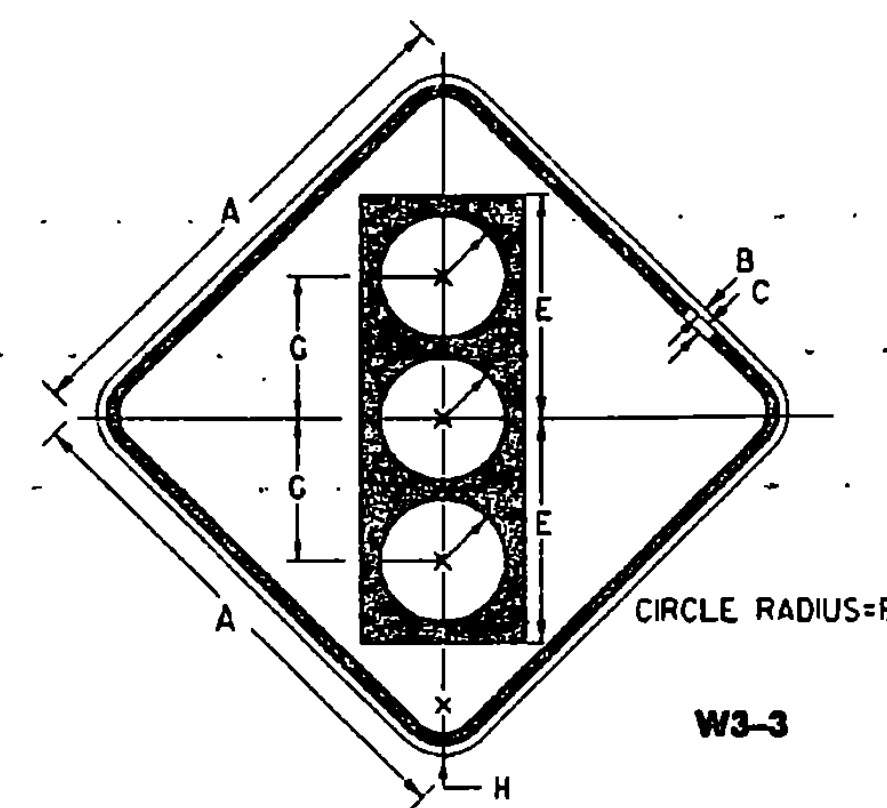
W1-4R

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q
STD. & MIN.	36	5/8	7/8	4 7/8	2 1/4	7 1/2	5/8	5 1/4	16 7/8	12 3/8	7 7/8	5 1/4	1 1/8	3 3/8	2 1/4
SPECIAL	48	3/4	1 1/4	6 3/8	3	10	3/8	7	22 1/2	16 1/2	10 1/2	7	2 1/4	5 1/4	3



W1-8

SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
STD.	18	24	9	12	3/4	1 1/2
SPECIAL	24	30	12	15	1 1/2	2 1/2
EXPWY.	30	36	15	18	1	1 3/4
FRWY.	36	48	18	24	1 1/8	2 3/4

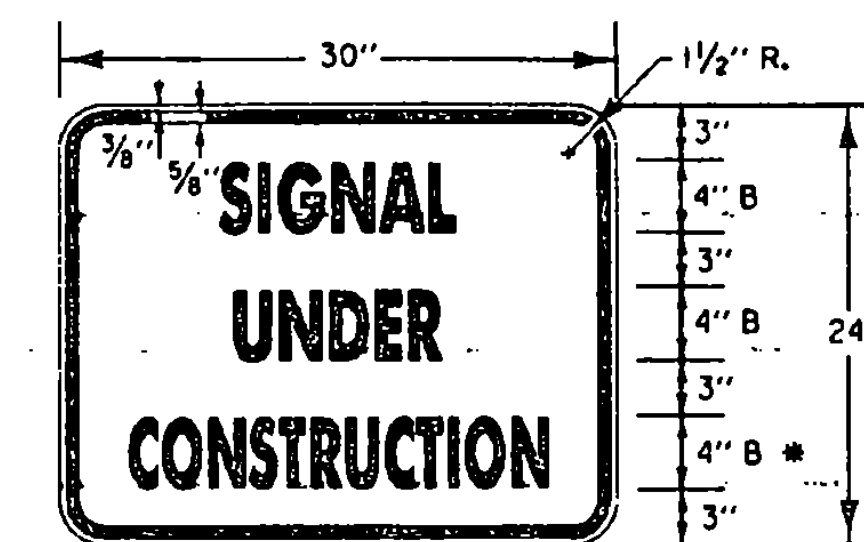


W3-3

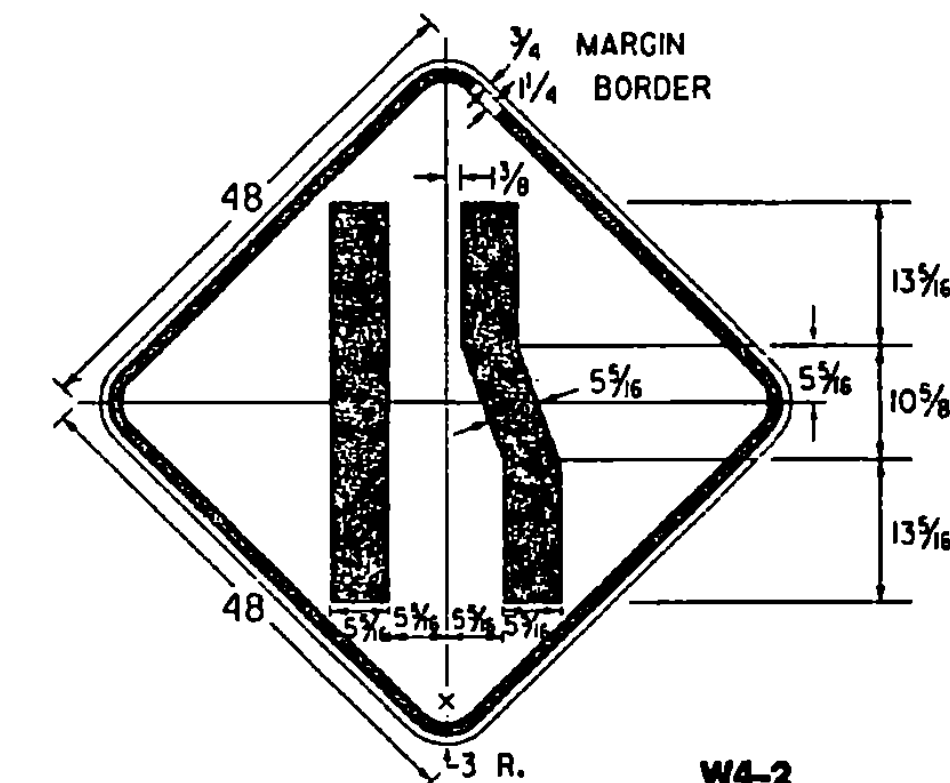
SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
STD. & MIN.	36	5/8	7/8	5 3/4	15 3/4	4 1/4	10	2 1/4
SPECIAL	48	3/4	1 1/4	7 1/2	20	5	12 1/2	3

COLORS

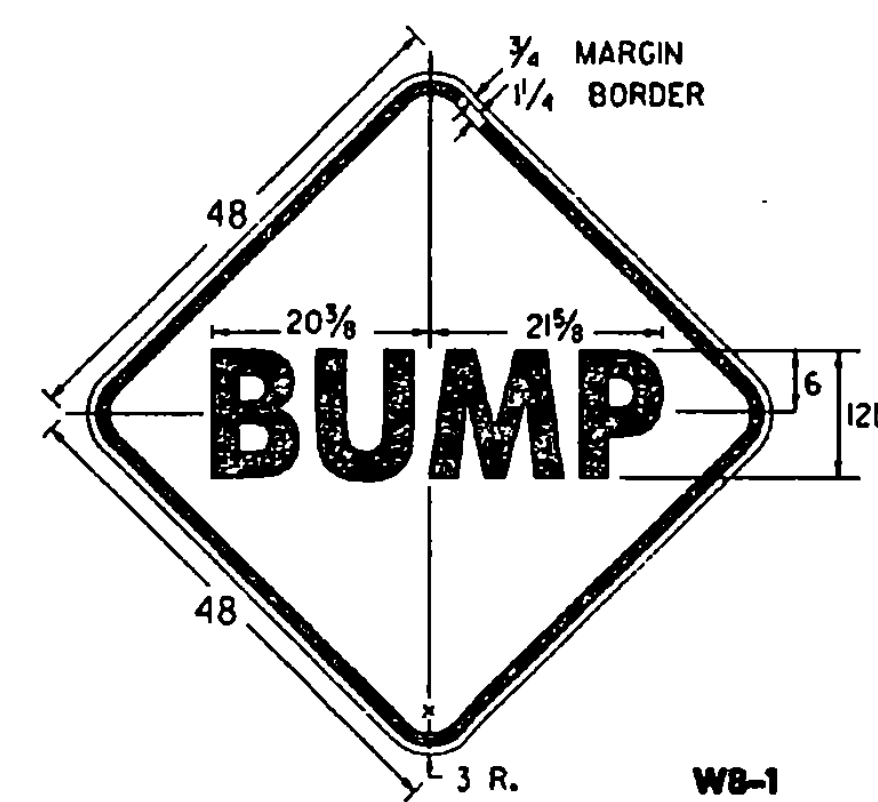
SYMBOL & LEGEND - BLACK (NON-REFL)
BACKGROUND - ORANGE (REFL)
TOP CIRCLE - RED (REFL)
MIDDLE CIRCLE - YELLOW (REFL)
BOTTOM CIRCLE - GREEN (REFL)



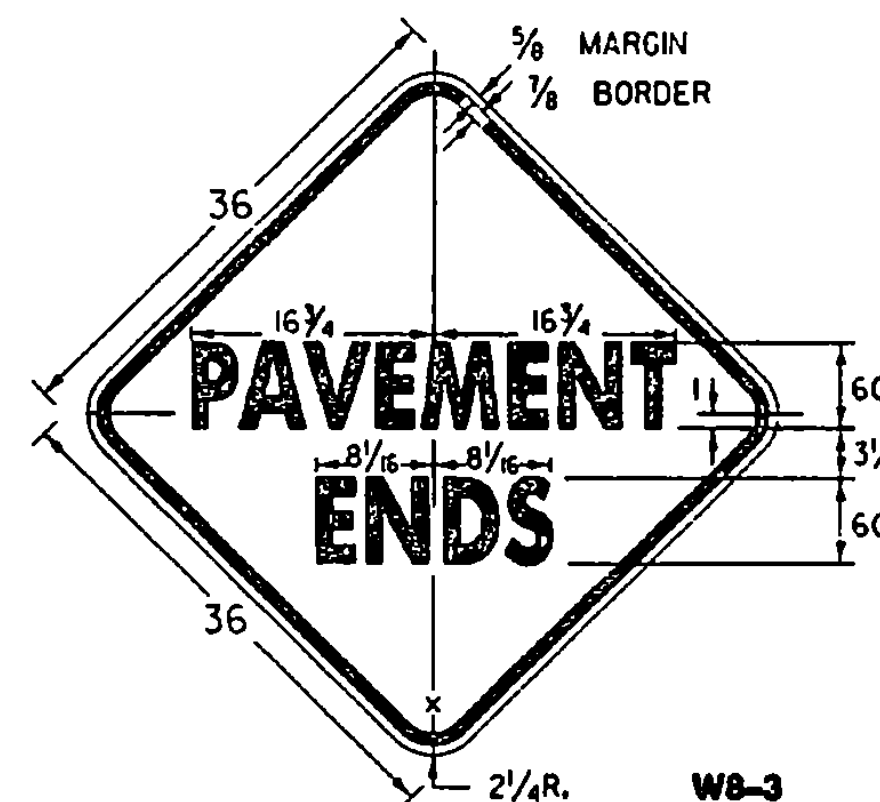
* REDUCE SPACING 50%



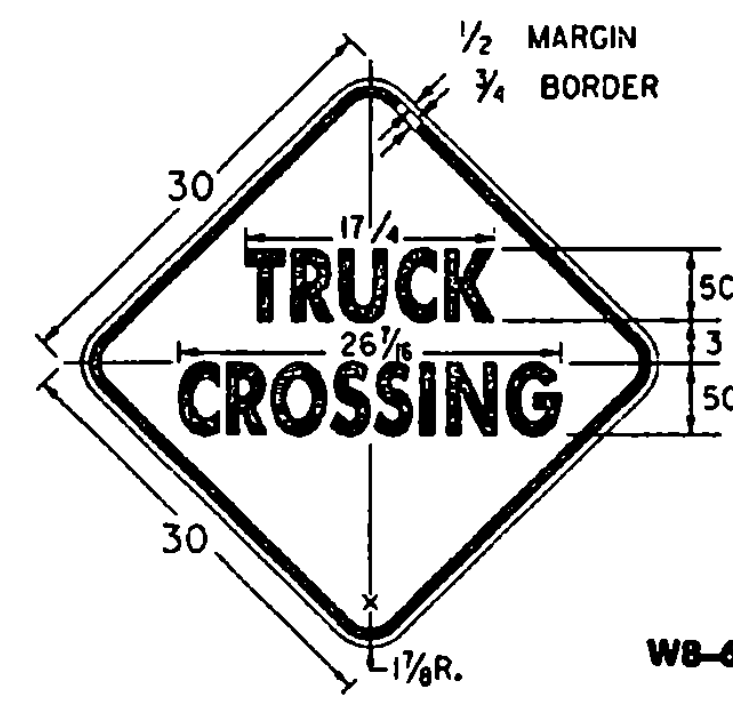
W4-2



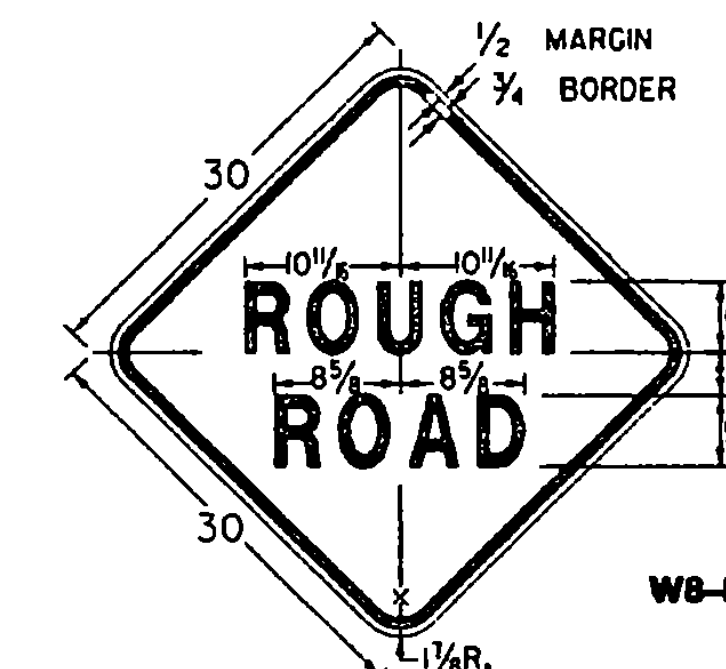
W8-1



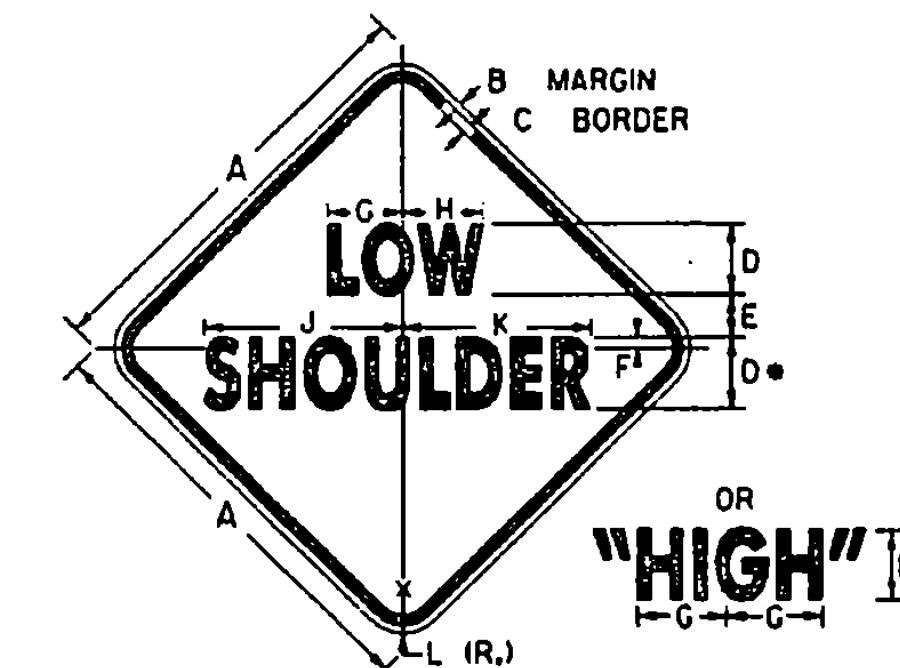
W8-3



W8-6



W8-8



W8-9

* REDUCE SPACING 25%

DIMENSIONS(INCHES)												
SIGN	A	B	C	D	E	F	G	H	J	K	L	
STD.	30	1/2	3/4	5C	3	3/4	5 3/8	5 3/8	13 3/8	13 3/8	1 3/8	
FWY.	48	3/4	1 1/4	8C	5	1 1/2	8 3/4	9	21 1/2	20 1/2	3	

NOTES

SEE STANDARD SHEET E-100 FOR NOTES AND TEXT DETAILS
COLORS FOR SIGNS SHOWN ON THIS SHEET SHALL BE BLACK TEXT, BORDER AND SYMBOLS ON A REFLECTORIZED TYPE II B OR TYPE III ORANGE BACKGROUND, UNLESS OTHERWISE NOTED.

SIGNS USED ONLY FOR DAYTIME MAINTENANCE OPERATIONS DO NOT NEED TO BE REFLECTORIZED, HOWEVER, THESE SIGNS SHALL BE LABELED "DAYTIME USE ONLY" ON THE BACK OF THE SIGN PANEL WITH 3" SERIES C LETTERS.

OTHER STDS. E-100 REQUIRED:

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
OCT. 21, 1992 - ADDED ADDITIONAL SIGN DIMENSIONS, REVISED CHEVRON BACKGROUND TO ORANGE, & REVISED TITLE BLOCK
AUG. 08, 1995 - ADDED AND DELETED VARIOUS SIGN DETAILS

APPROVED

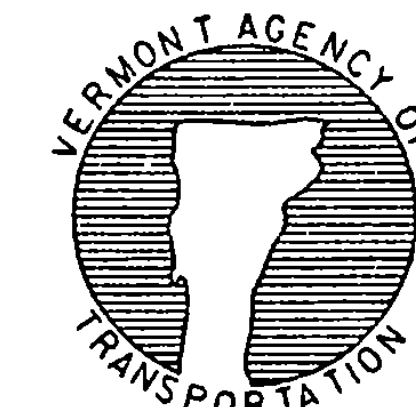
Stephen J. McArthur
DIRECTOR OF ENGINEERING

Don O. Ross
TRAFFIC AND SAFETY ENGINEER

CONSTRUCTION SIGN DETAILS

(ALL DIMENSIONS SHOWN IN INCHES)

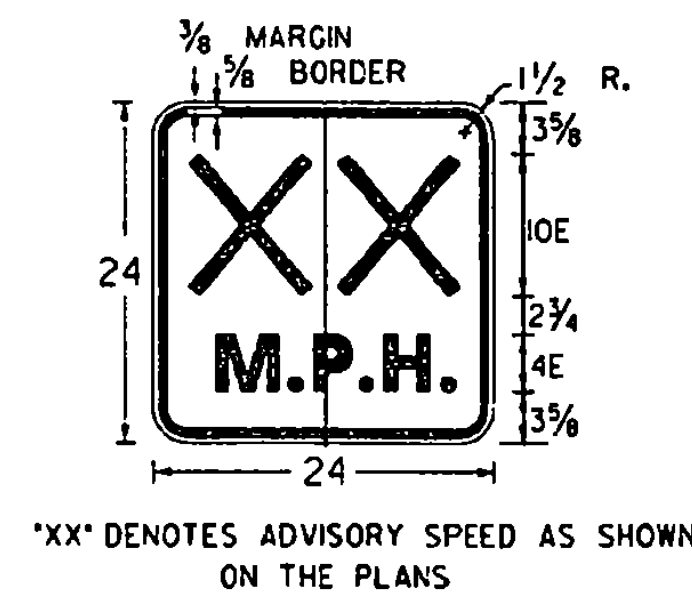
LEFT LANE



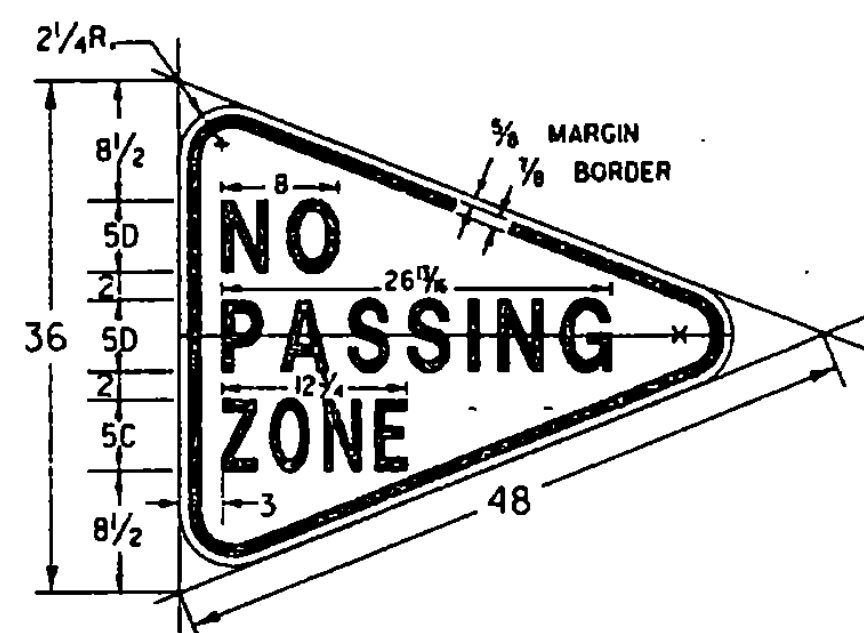
**STANDARD
E-101**

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FHWA FINAL APPROVAL PENDING.

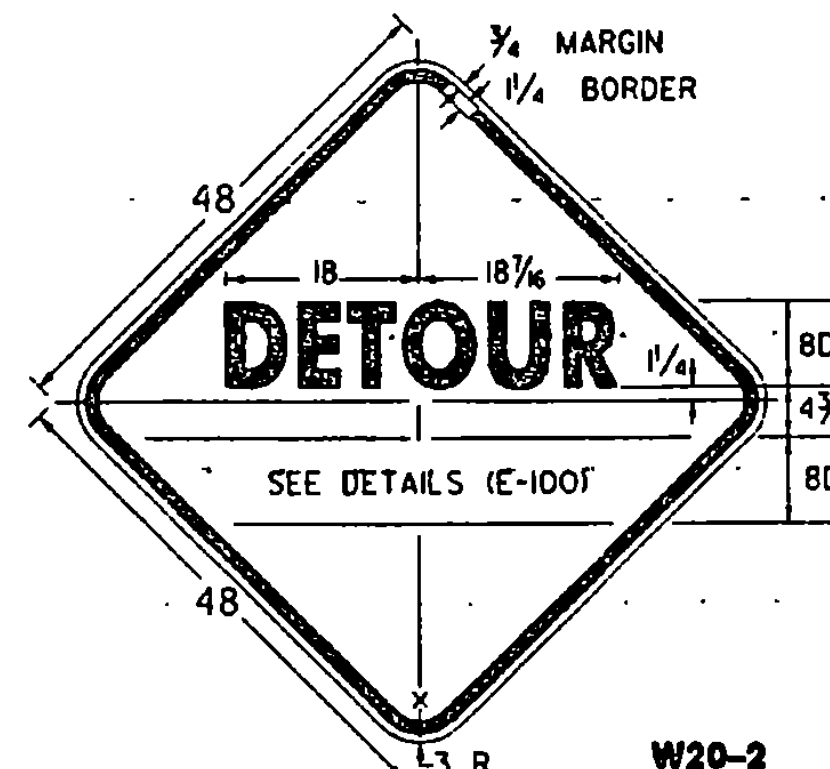
/traf/std/stcel01.dgn : stcel01.i



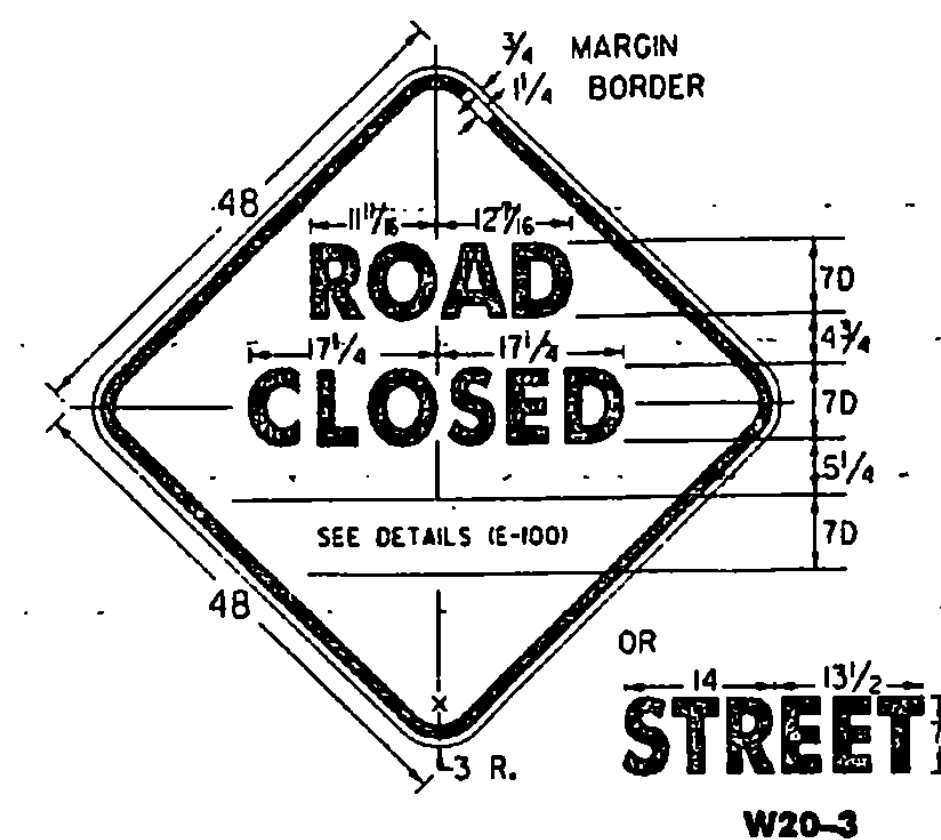
W13-1



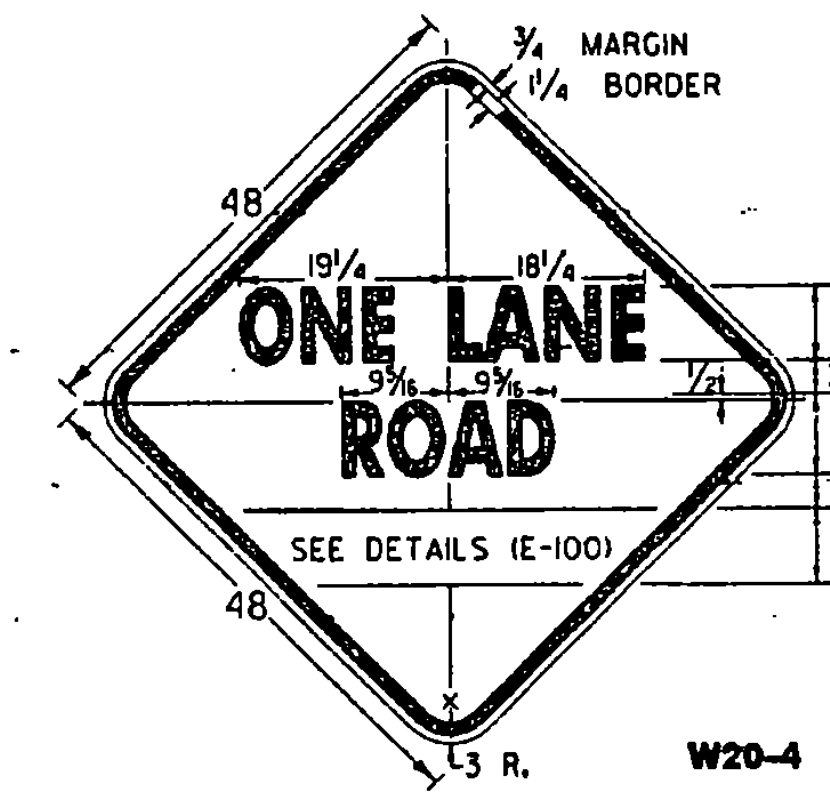
W14-3



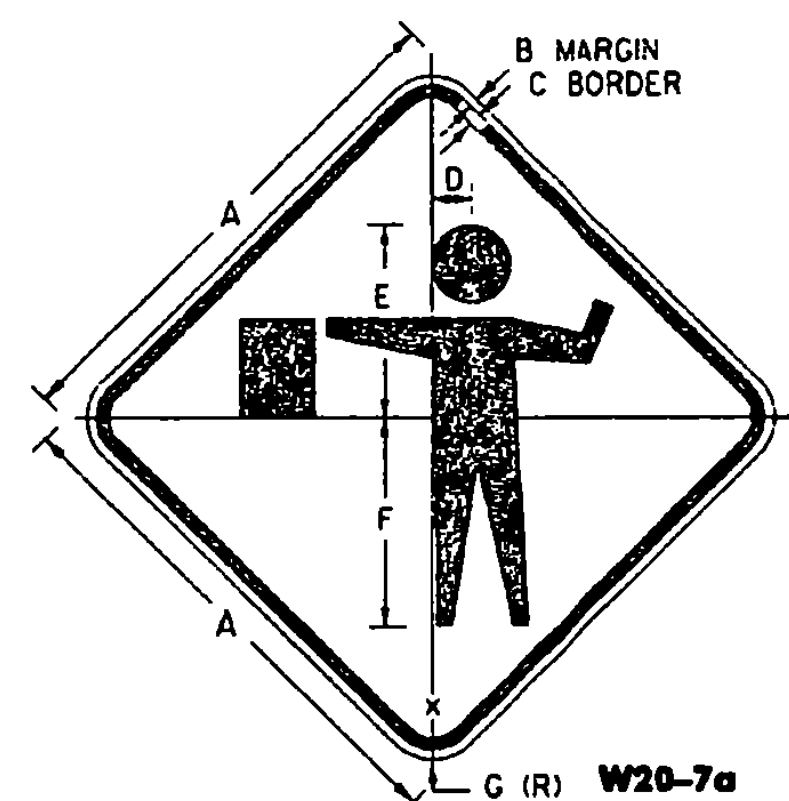
W20-2



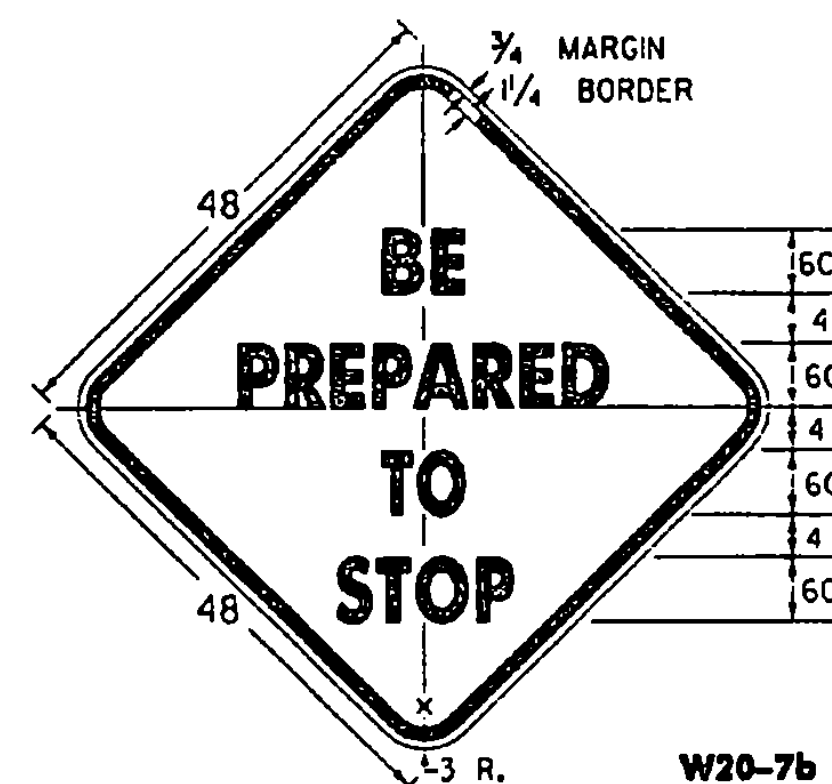
W20-3



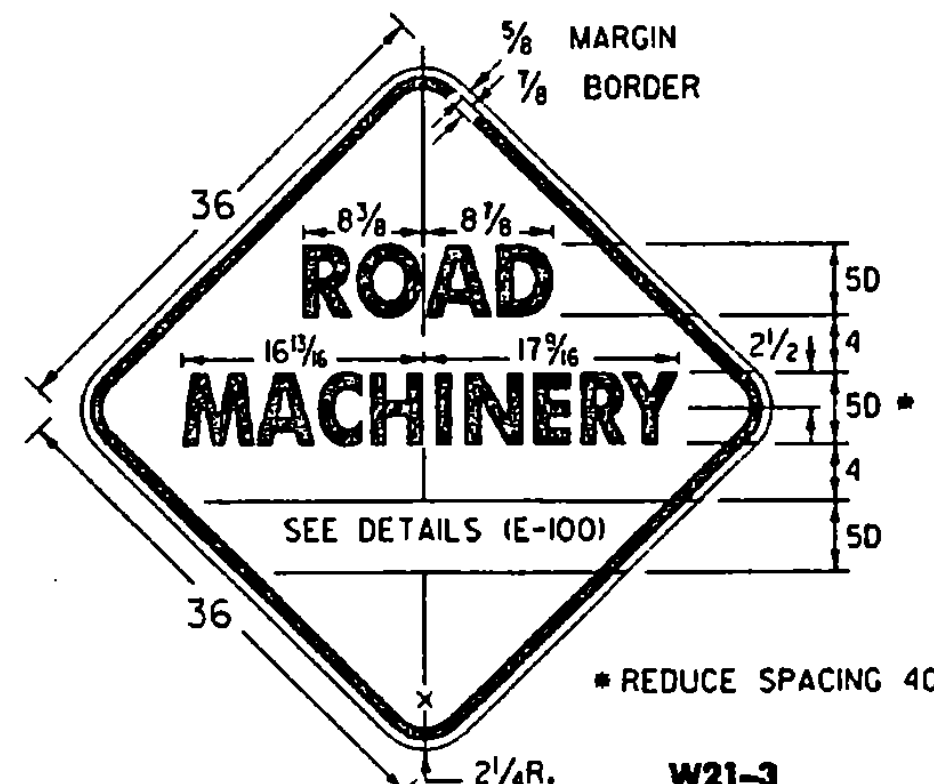
W20-4



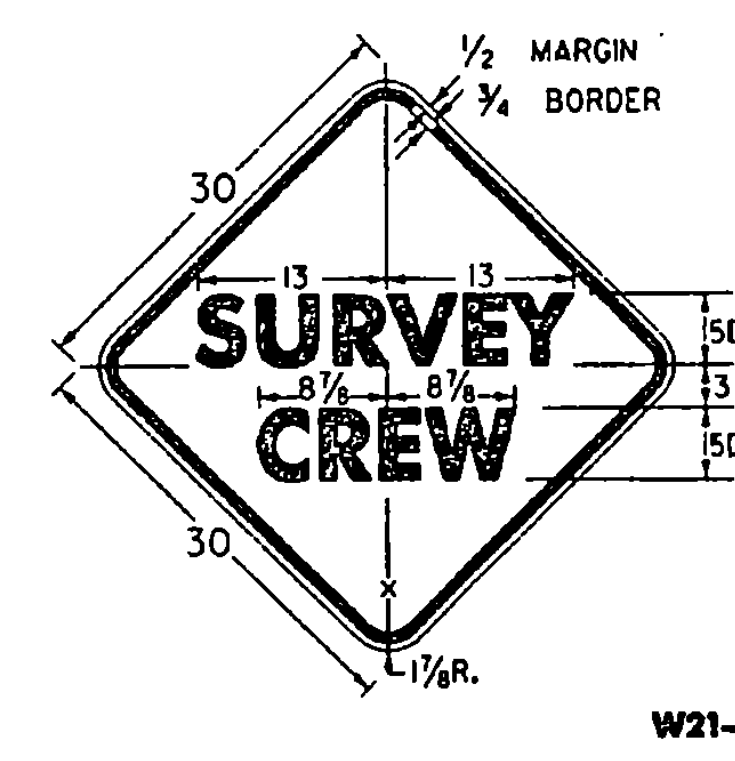
W20-7a



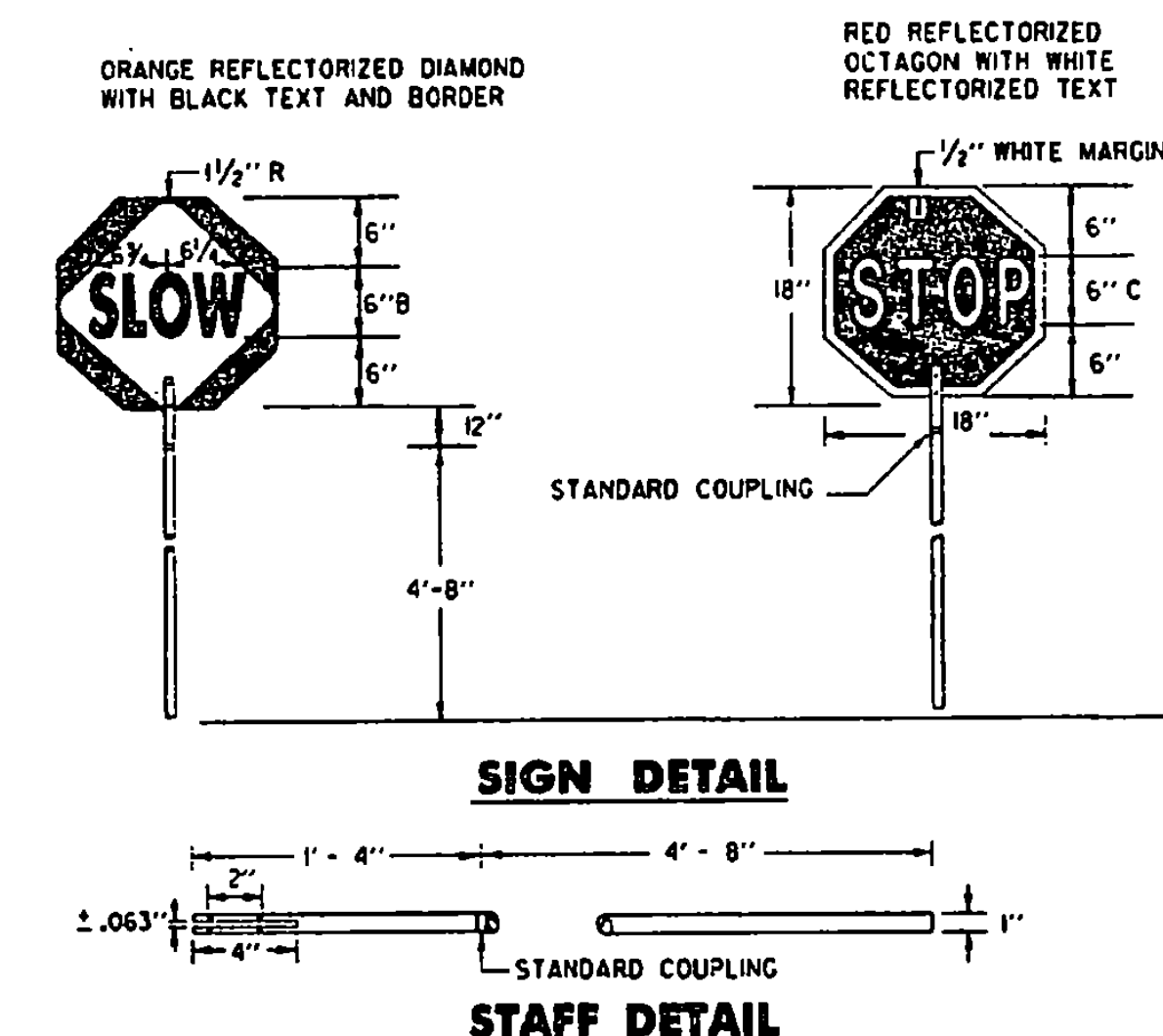
W20-7b



W21-3



W21-6



SIGN DETAIL

STAFF DETAIL

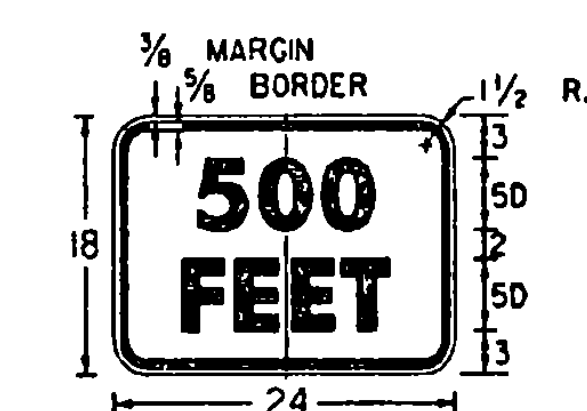
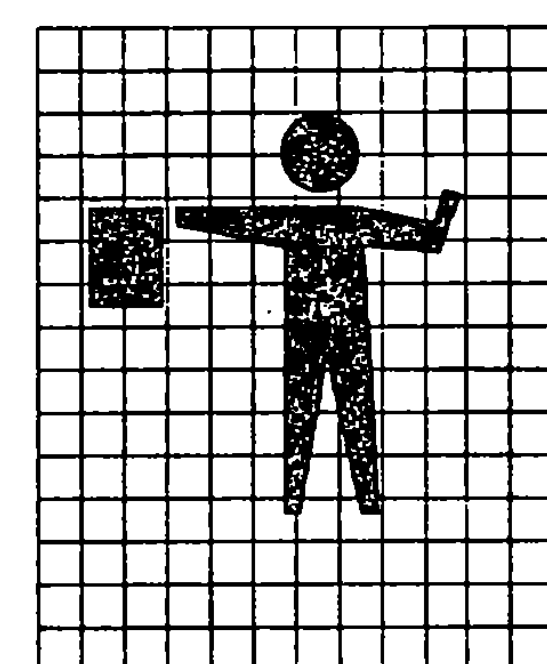
MATERIALS
THE SIGN MATERIALS SHALL BE 0.063" ALUMINUM WITH COLORS AS INDICATED ON DETAILS.
THE STAFF SHALL BE 1/2" TO 1/4" DIAMETER RIGID ALUMINUM CONDUIT/TUBING WITH A WALL THICKNESS OF 0.125" OR 1/2" DIAMETER RIGID PVC CONDUIT/TUBING WITH 0.125" WALL THICKNESS.

MOUNTING
THE STAFF SHALL BE MOUNTED WITH EITHER TWO 1/2" DIAMETER ALUMINUM BOLTS OR TWO 1/4" DIAMETER ALUMINUM RIVETS.

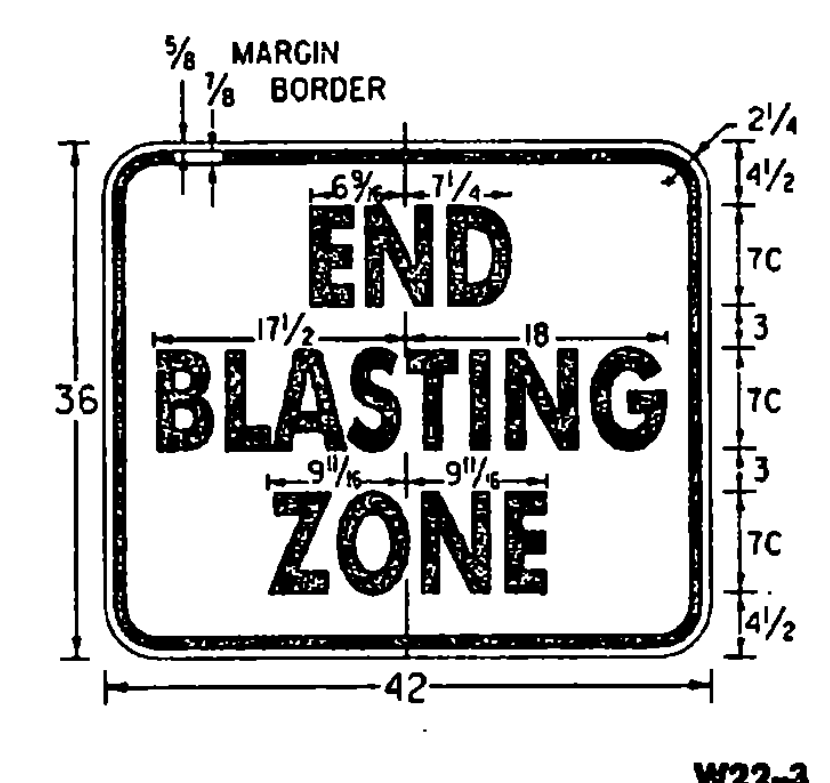
SIGN PADDLE FOR FLAGPERSON

NOTES

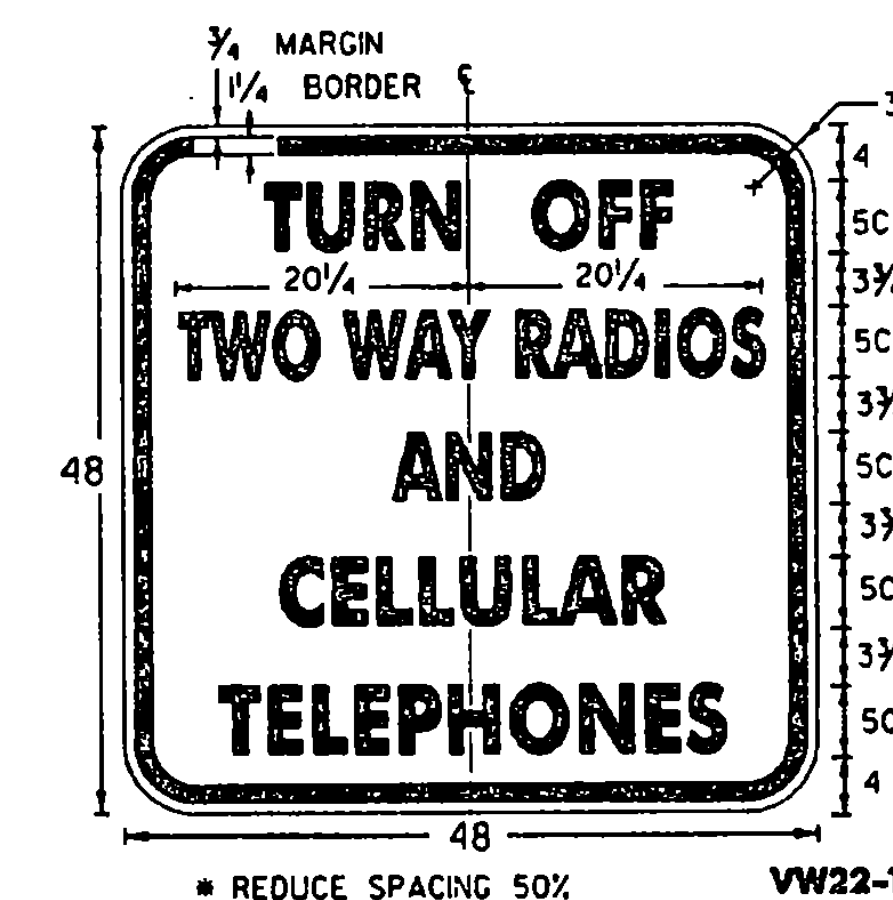
SEE STANDARD SHEET E-100 FOR NOTES AND TEXT DETAILS.
COLORS FOR SIGNS SHOWN ON THIS SHEET SHALL BE BLACK TEXT, BORDER AND SYMBOLS SHALL BE ON A REFLECTORIZED ORANGE BACKGROUND OF TYPE III OR TYPE III REFLECTIVE SHEETING, UNLESS OTHERWISE NOTED. THE EXCEPTION IS THE PADDLE SIGN.
SIGN DETAILS INDICATE THE APPROPRIATE COLOR.
SIGNS USED ONLY FOR DAYTIME MAINTENANCE OPERATIONS DO NOT NEED TO BE REFLECTORIZED, HOWEVER, THESE SIGNS SHALL BE LABELED "DAYTIME USE ONLY" ON THE BACK OF THE SIGN PANEL WITH 3" SERIES C LETTERS.



W22-1



W22-3



VW22-1

DIMENSIONS (INCHES)							
SIGN	A	B	C	D	E	F	G
STD.	36	1/4	1/4	2 1/4	13 1/2	14 1/2	2 1/4
FWY.	48	1/4	1/4	3 1/4	18	19 1/2	3

(ALL DIMENSIONS SHOWN IN INCHES)

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
JAN. 23, 1989 - DELETE MOTORCYCLE SYMBOL SIGN AND SPEED SIGN, ADDED TWO SIGNS
OCT. 21, 1992 - ADDED A SIGN, REVISED A SIGN DIMENSION & TYPE ERROR & REVISED TITLE BLOCK
AUG. 08, 1995 - ADDED FLAGGER GRID

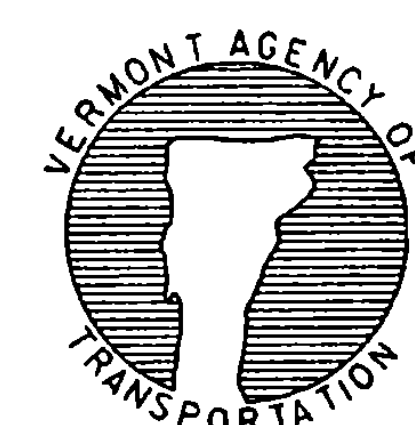
APPROVED

Stephen J. McArthur
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

CONSTRUCTION SIGN DETAILS

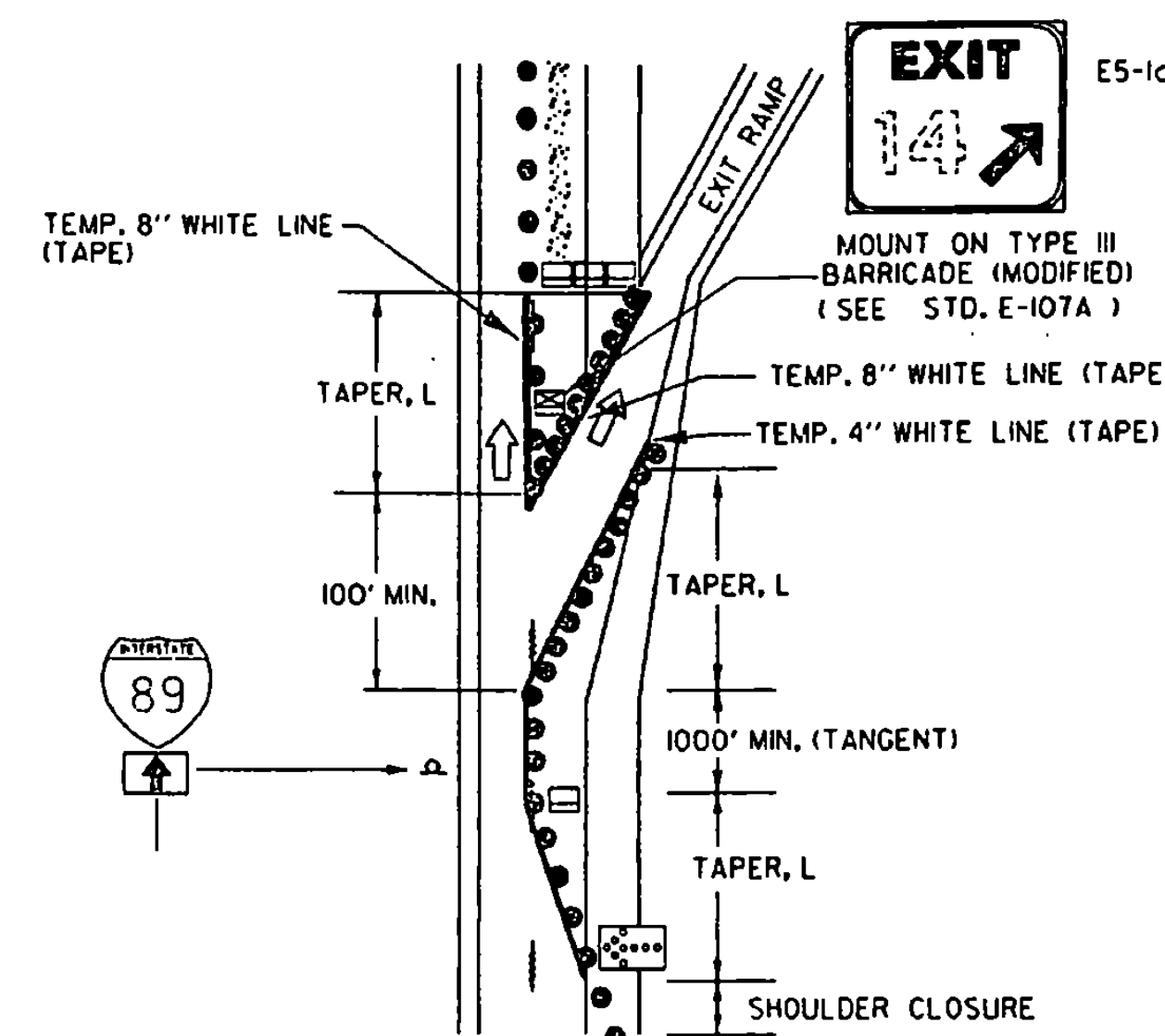
OTHER STDS. E-100 REQUIRED:



STANDARD
E-102

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION, FHWA FINAL APPROVAL PENDING.

/traf/std/stdel02.dgn : stdel02.l



NOT TO SCALE

MAINLINE LANE CLOSURE
AT AN EXIT RAMP

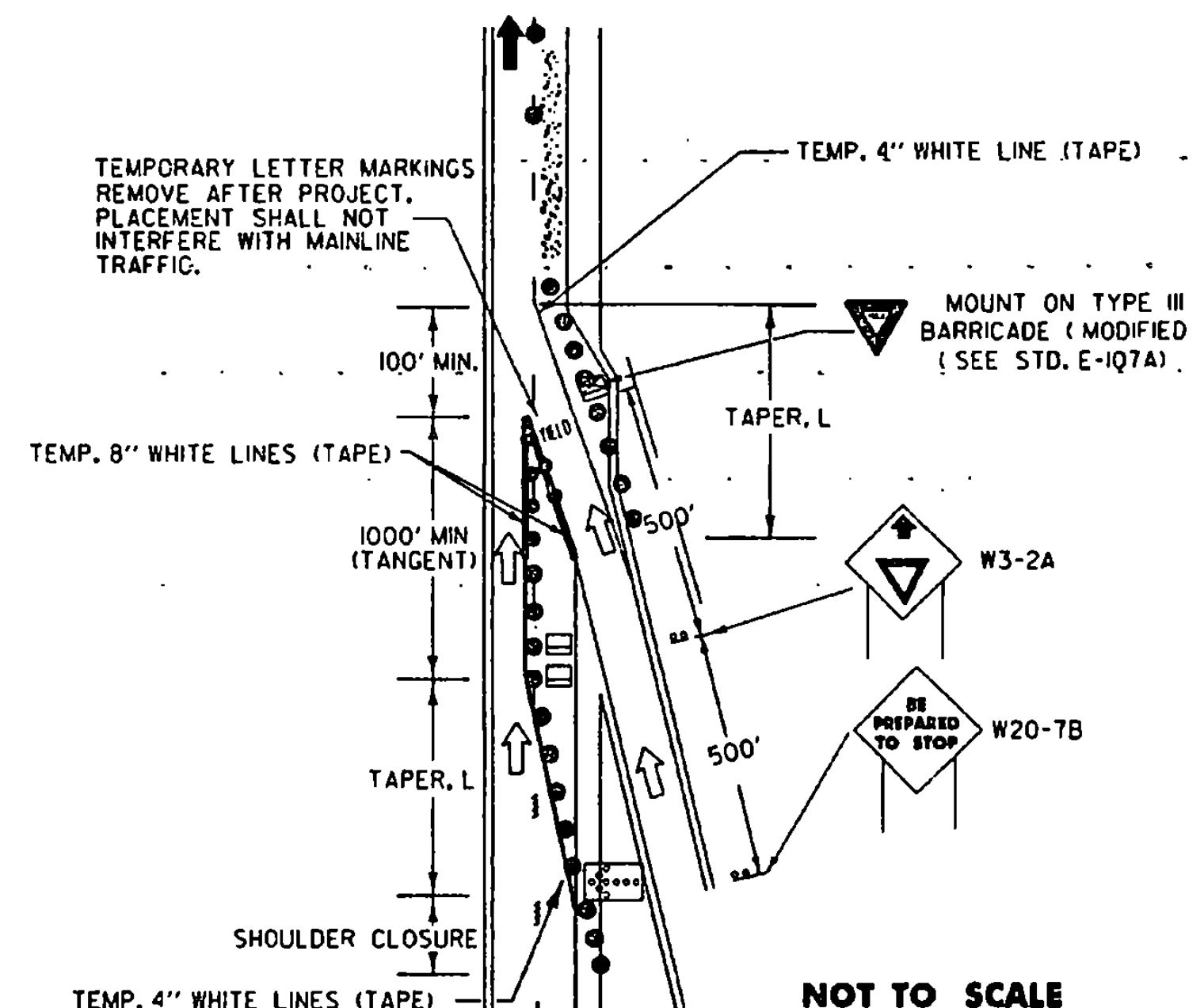
THIS DETAIL SHALL BE USED WHEN THE WORK ZONE BEGINS AT THE GORE OR THE MAINLINE LANE CLOSURE DRUM PLACEMENT INTERFERES WITH THE EXIT RAMP.

NOTES:

- 1) ALL SIGNS SHALL BE MOUNTED ON FIXED POSTS (YIELDING TYPE) UNLESS OTHERWISE NOTED.
- 2) CHANNELIZING DEVICES SHALL BE PLACED AS FOLLOWS:
TAPERS - DEVICES SHALL BE SPACED A MAXIMUM OF "S" (THE SPEED LIMIT IN FEET) APART.
TANGENT - DEVICES SHALL BE SPACED 2 X "S" (THE SPEED LIMIT IN FEET) APART.
- 3) ALL DISTANCES ARE DESIRABLE MINIMUMS. FIELD CONDITIONS SHALL CONTROL THE ACTUAL PLACEMENT.
- 4) TAPER RATES ARE BASED ON THE POSTED MAINLINE AND EXIT SPEEDS.
- 5) TEMPORARY PAVEMENT MARKINGS ARE REQUIRED WHEN THE LAYOUT IS TO BE IN EFFECT FOR THREE DAYS OR MORE.
- 6) LANE CLOSURES AND TAPER LENGTHS, L, AS DETAILED ON STANDARD E-103.
- 7) EXIT SIGN SHALL BE MOUNTED A MINIMUM OF 3' ABOVE THE GROUND AND HIGH ENOUGH TO BE SEEN ABOVE CHANNELIZING DEVICES.

LEGEND

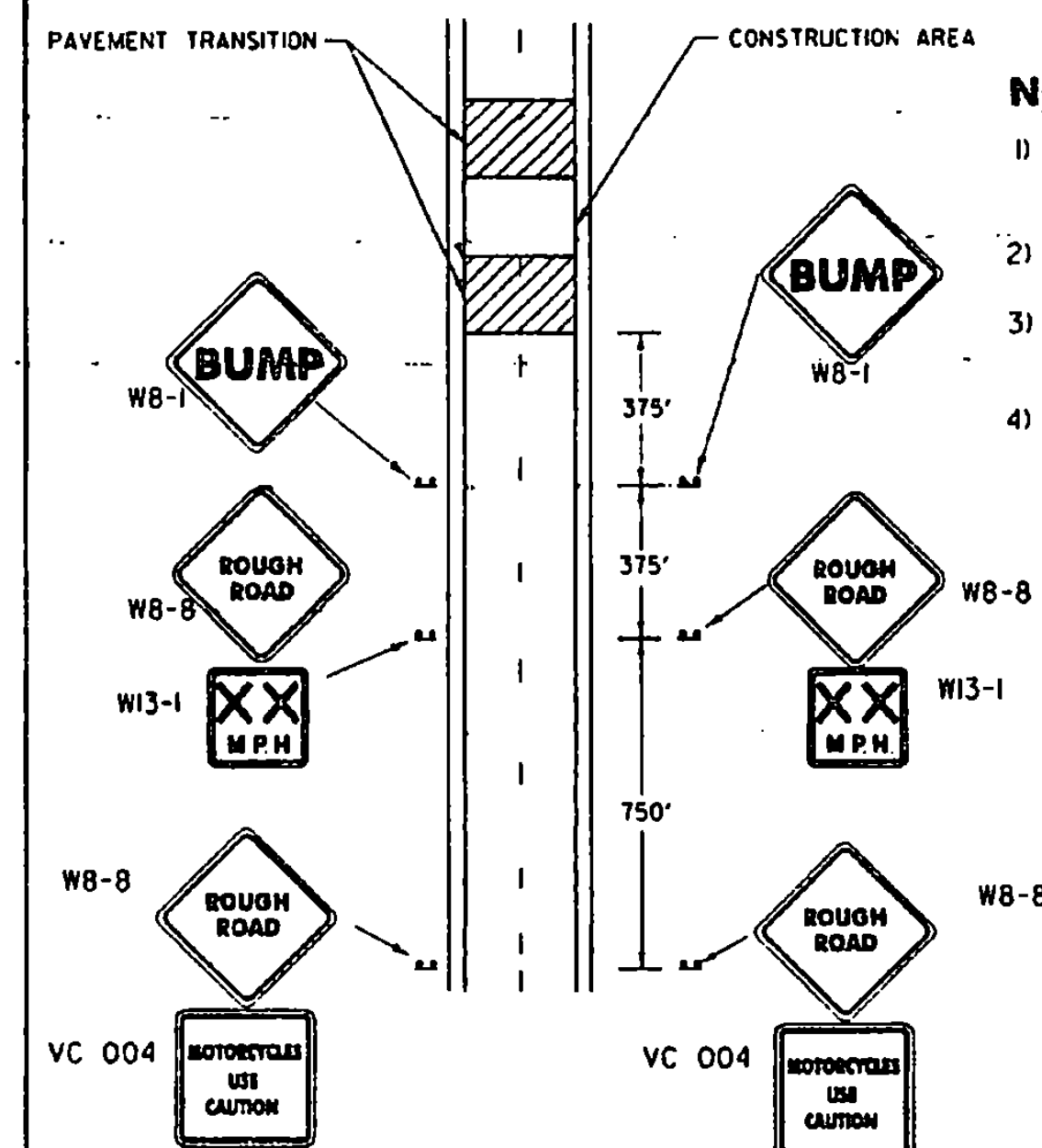
- REFL. 28" CONES
- REFL. PLASTIC DRUMS
- PAVEMENT MARKING REMOVAL
- ↑ INDICATES TRAFFIC FLOW
- WORK AREA
- FLASHING ARROW PANEL
- TYPE III BARRICADES
- TYPE III BARRICADES (MOD.)



NOT TO SCALE

MAINLINE LANE CLOSURE
AT AN ENTRANCE RAMP

THIS DETAIL SHALL BE USED WHEN THE WORK ZONE BEGINS AT THE END OF THE ACCELERATION LANE OR THE MAINLINE LANE CLOSURE DRUM PLACEMENT INTERFERES WITH THE ON-RAMP TRAFFIC.
IF THE LENGTH OF THE ACCELERATION LANE IS NOT ADEQUATE, THE YIELD SIGN SHALL BE REPLACED WITH A STOP SIGN. IF A STOP SIGN IS USED, IT SHOULD BE ACCOMPANIED BY A STOP BAR.

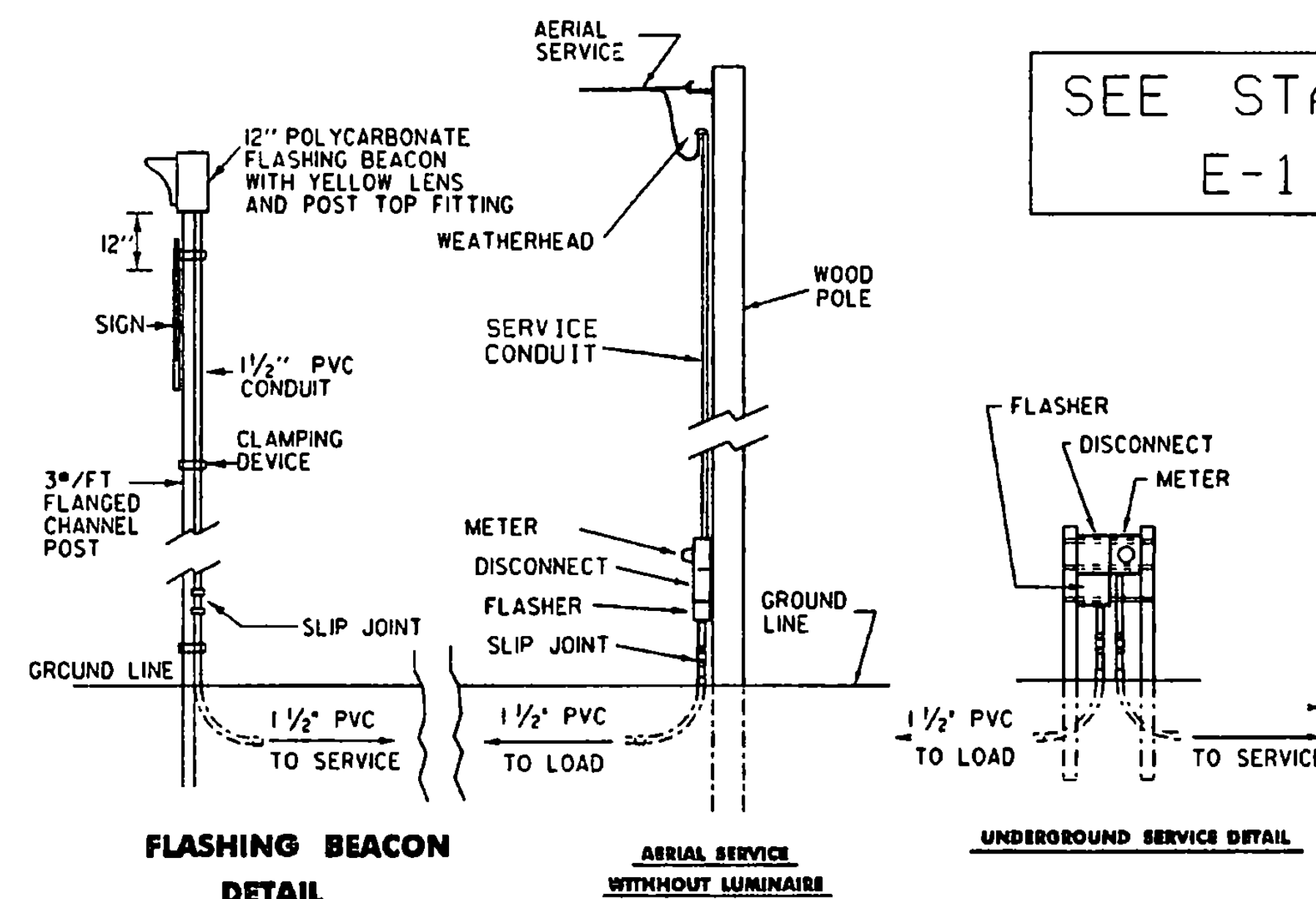


NOTES:

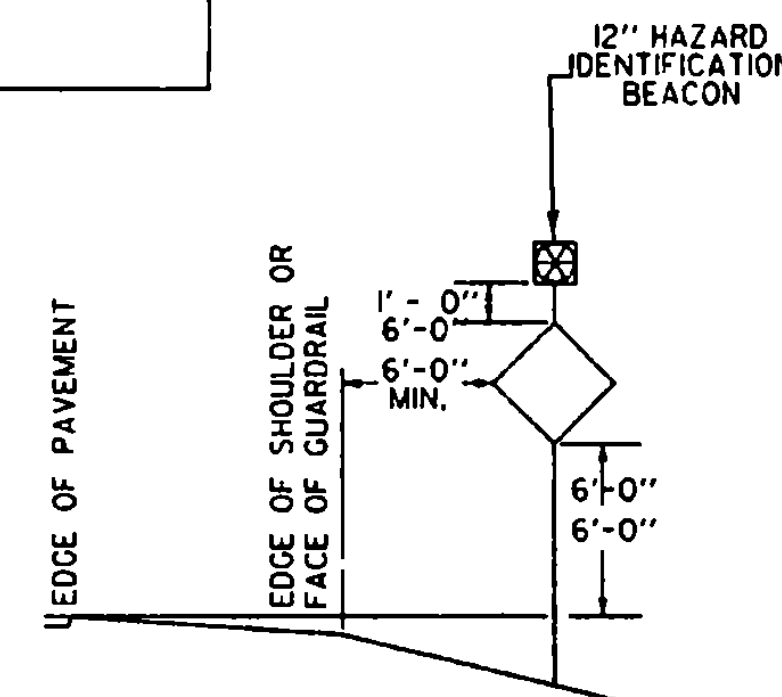
- 1) ADVISORY SPEED AS DETERMINED BY THE RESIDENT ENGINEER (40 M.P.H. MINIMUM RECOMMENDED)
- 2) SIGNS MOUNTED ON FIXED POSTS. (YIELDING TYPE)
- 3) ALL DISTANCES ARE DESIRABLE MINIMUMS. FIELD CONDITION SHALL CONTROL THE ACTUAL PLACEMENT.
- 4) THE BUMP SIGN MAY BE ELIMINATED WHEN THERE IS NO BUMP. WHEN THE CONTRACTOR IS WORKING IN THE CONSTRUCTION AREA THE APPROPRIATE ADVANCED WARNING SIGN PACKAGE SHALL BE USED, SEE STD. E-103.

NOT TO SCALE

ADVANCED WARNING SIGN PACKAGE FOR
COLD PLANED (SCARIFIED) SURFACES.



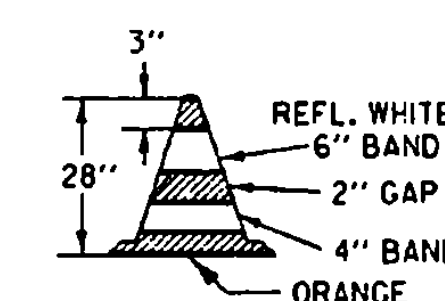
SEE STANDARD
E-175



SIGN PLACEMENT DETAIL

NOTES:

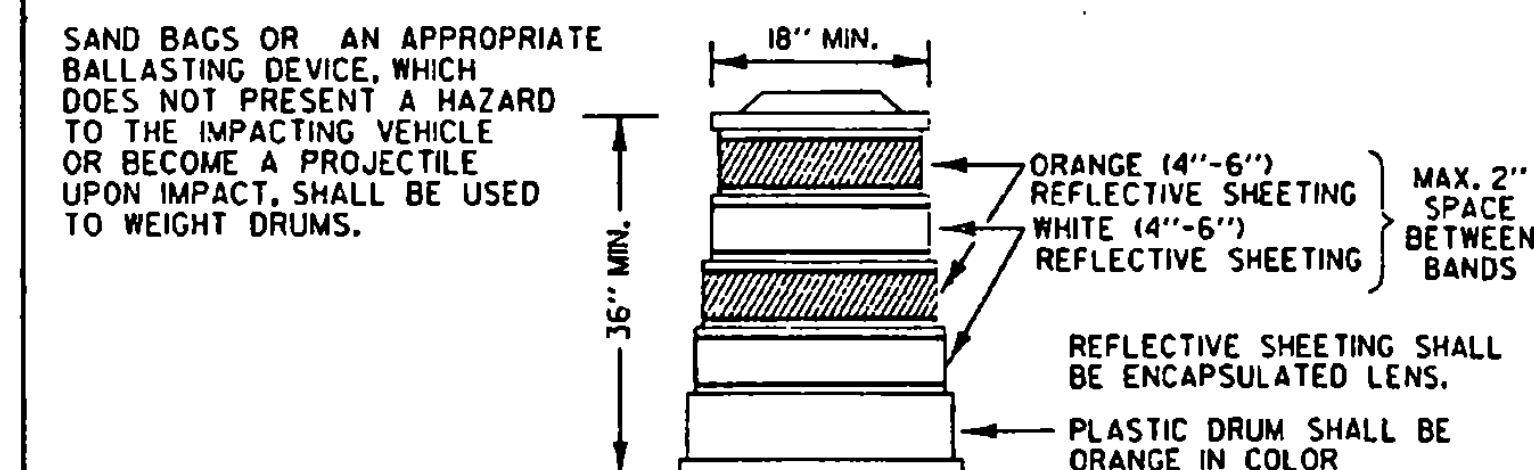
- 1) AT THE CONTRACTOR'S OPTION:
A. THE POWER SUPPLY MAY BE AERIAL OR UNDERGROUND (SEE DETAIL).
B. POWER FOR A FLASHING BEACON MAY BE COMBINED WITH POWER FOR A TRAFFIC SIGNAL OR THEY MAY HAVE SEPARATE POWER SOURCES.
C. THE FLASHER MAY BE INSTALLED ON A STANCHION NEAR THE SIGN, ON A UTILITY POLE (WITH UTILITY COMPANY APPROVAL) OR AT THE SAME LOCATION AS A TRAFFIC SIGNAL CONTROLLER.
- 2) THE FLASHER UNIT SHALL BE ONE CIRCUIT AND INCLUDE A RADIO INTERFERENCE FILTER.
- 3) BATTERY OPERATED FLASHERS WILL NOT BE ALLOWED.
- 4) BOTTOM OF THE BEACON SHALL BE A MIN. OF 8'-0" AND A MAX. OF 12'-0" ABOVE THE EDGE OF THE PAVEMENT.
- 5) FOR URBAN AREA PLACEMENT SEE STD. E-121.



NOTES:

- 1) 28" CONES SHALL BE USED ON ROADWAYS WITH SPEED LIMITS OF 35 MPH OR MORE AND ON ALL ROADWAYS DURING HOURS OF DARKNESS.
- 2) CONES MAY BE WEIGHTED TO PREVENT OVERTURNING, HOWEVER THE WEIGHTS SHALL NOT PRESENT A HAZARD IF THE CONE IS STRUCK.
- 3) REFLECTIVE SHEETING SHALL BE ENCAPSULATED LENS.

28" REFLECTORIZED CONE



REFLECTORIZED PLASTIC
DRUM

OTHER STDS. E-101 E-102A E-107A E-150
REQUIRED: E-102 E-103 E-136 E-175

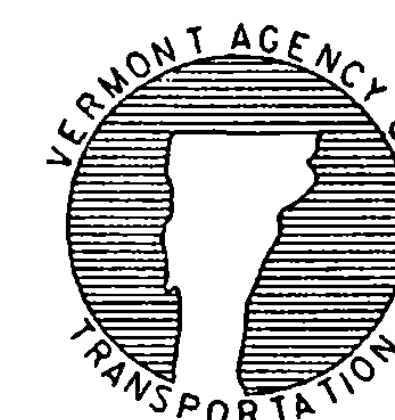
REVISIONS AND CORRECTIONS

APR 12, 1989 - DATE OF ORIGINAL ISSUE
JAN 23, 1989 - REVISED EXIT SIGN - CLARIFIED EXIT TAPER
SEPT 20, 1993 - REVISED RAMP CLOSURES, FLASHING BEACON DETAILS AND MOVED TYPE III BARRICADE (MOD) TO STD. E-107A
AUG 08, 1995 - REVISED BEACON SIZE

APPROVED

Stephen D. McArthur
DIRECTOR OF ENGINEERING
David A. Ross
TRAFFIC AND SAFETY ENGINEER

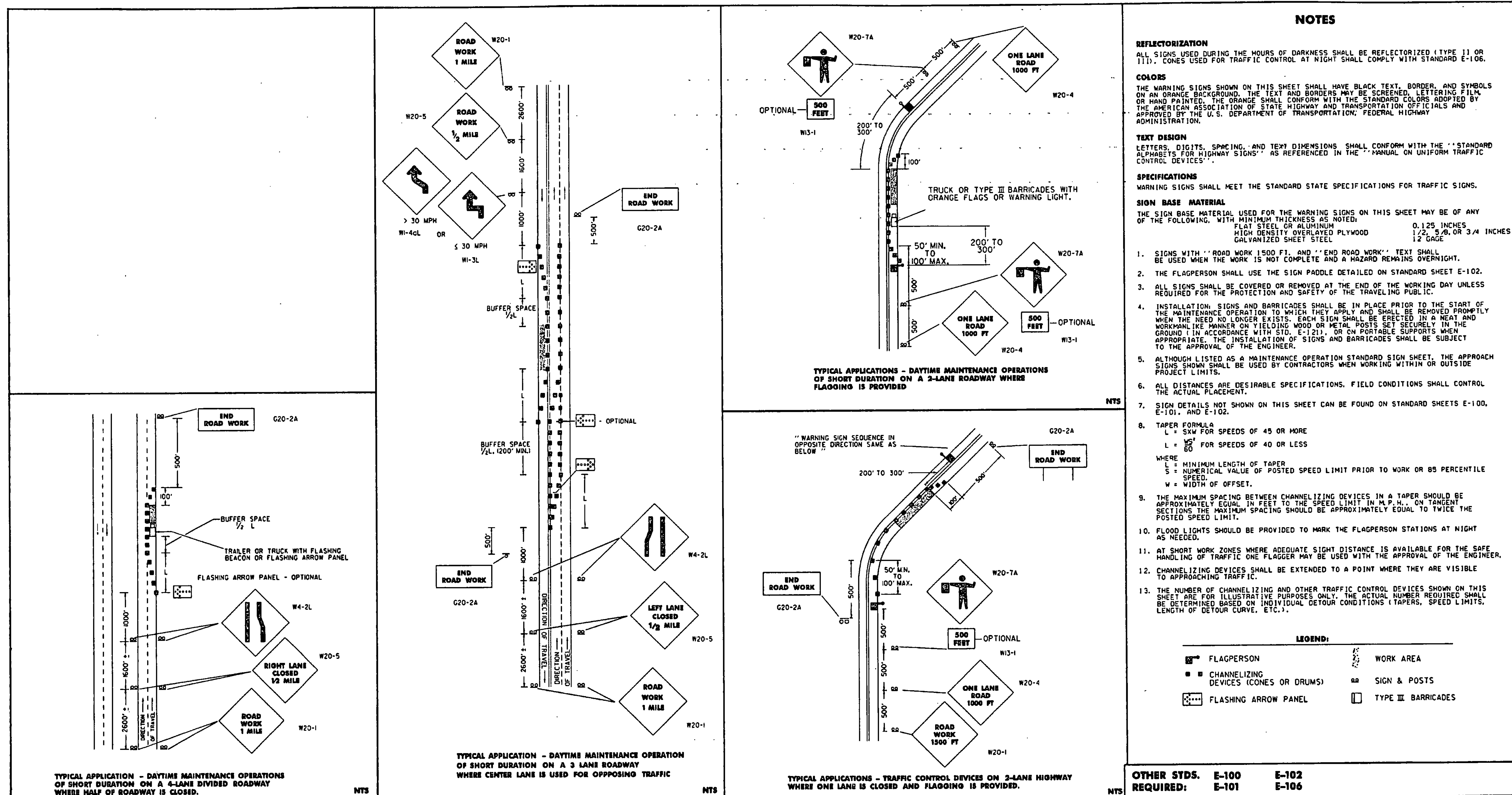
TRAFFIC CONTROL MISCELLANEOUS DETAILS



STANDARD
E-106

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

/traf/std/stdel06.dgn : stdel06.l



REVISIONS AND CORRECTIONS

SEPT 10, 1987 - DATE OF ORIGINAL ISSUE
MAR 01, 1988 - FHWA REVIEW COMMENTS

SEP 20, 1993 - REVISED NOTES & MISC. DETAILS

AUG 08, 1995 - DELETED SIGN DETAILS

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION,
FHWA FINAL APPROVAL PENDING.

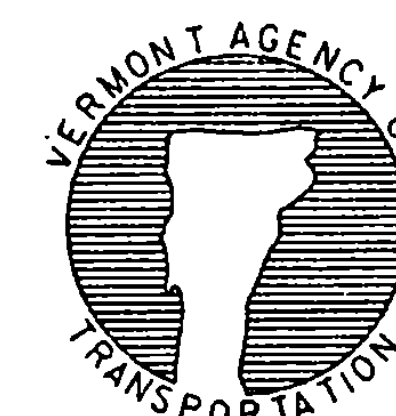
APPROVED

Stephen D. McArthur
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

MAJOR MAINTENANCE OPERATION LANE CLOSURE

/traf/std/stdell0.dgn : stdell0.1



STANDARD
E-110

Diagram showing guardrail deflection and sign placement details. Includes a table for Guardrail Deflection Chart and a diagram for Sign Placement at End of Ramp.

TYPE	SPACING	DEFLEC.
Three Cable w/Steel Posts	16'-0"	12 ft.
w/Wooden Posts	12'-6"	12 ft.
W-Beam w/Weak Posts	12'-6"	7 ft.
w/Strong Posts	6'-3"	3 ft.
Box Beam	6'-0"	5 ft.
Triple Beam w/Weak Posts	12'-6"	4 ft.
w/Strong Posts	6'-3"	2 ft.

WHEN PLACED BEHIND GUARDRAIL AND BEYOND THE DEFLECTION DISTANCE FOR THAT PARTICULAR RAIL, SIGN POSTS DO NOT HAVE TO BE PLACED ON YIELDING SUPPORTS. SIGN POSTS SHALL BE PLACED ON YIELDING SUPPORTS WHEN THEY CAN BE STRUCK BY AN ERRANT VEHICLE LEAVING THE ROADWAY AT AN ENCROACHMENT ANGLE OF APPROXIMATELY 15 DEGREES OR LESS.

INSTALLATION DETAILS
NORMALLY SIGNS SHOULD BE MOUNTED AT 93° TO THE DIRECTION OF TRAFFIC. ON CURVED ALIGNMENT THE ANGLE OF PLACEMENT SHOULD BE DETERMINED BY THE PATH OF APPROACHING TRAFFIC RATHER THAN BY THE ROADSIDE EDGE AT THE POINT WHERE THE SIGN IS LOCATED. WHEN INSTALLING OVERHEAD SIGNS, CANT THE SIGN FROM THE TOP TOWARD APPROACHING TRAFFIC AT A THREE DEGREE TILT ANGLE.

GUIDE SIGNS

SIGN PLACEMENT AT END OF RAMP

Diagram showing word marking layout detail, storm sign, hazard marker, and pavement marking & stop sign location details for off ramp.

WORD MARKING LAYOUT DETAIL

STORM SIGN

HAZARD MARKER

PAVEMENT MARKING & STOP SIGN LOCATION DETAILS FOR OFF RAMP

REGULATORY SIGN ASSEMBLY DETAIL FOR OFF RAMP

Diagram showing object marker, standard sign placement for ramp, regulatory sign, warning sign, route marker, guide sign, and standard sign placement for mainline.

OBJECT MARKER

STANDARD SIGN PLACEMENT RAMP

REGULATORY SIGN

WARNING SIGN

ROUTE MARKER

GUIDE SIGN

STANDARD SIGN PLACEMENT MAINLINE

Revisions and corrections, approved section, standard sign placement expressway and freeway, and Vermont Agency of Transportation logo.

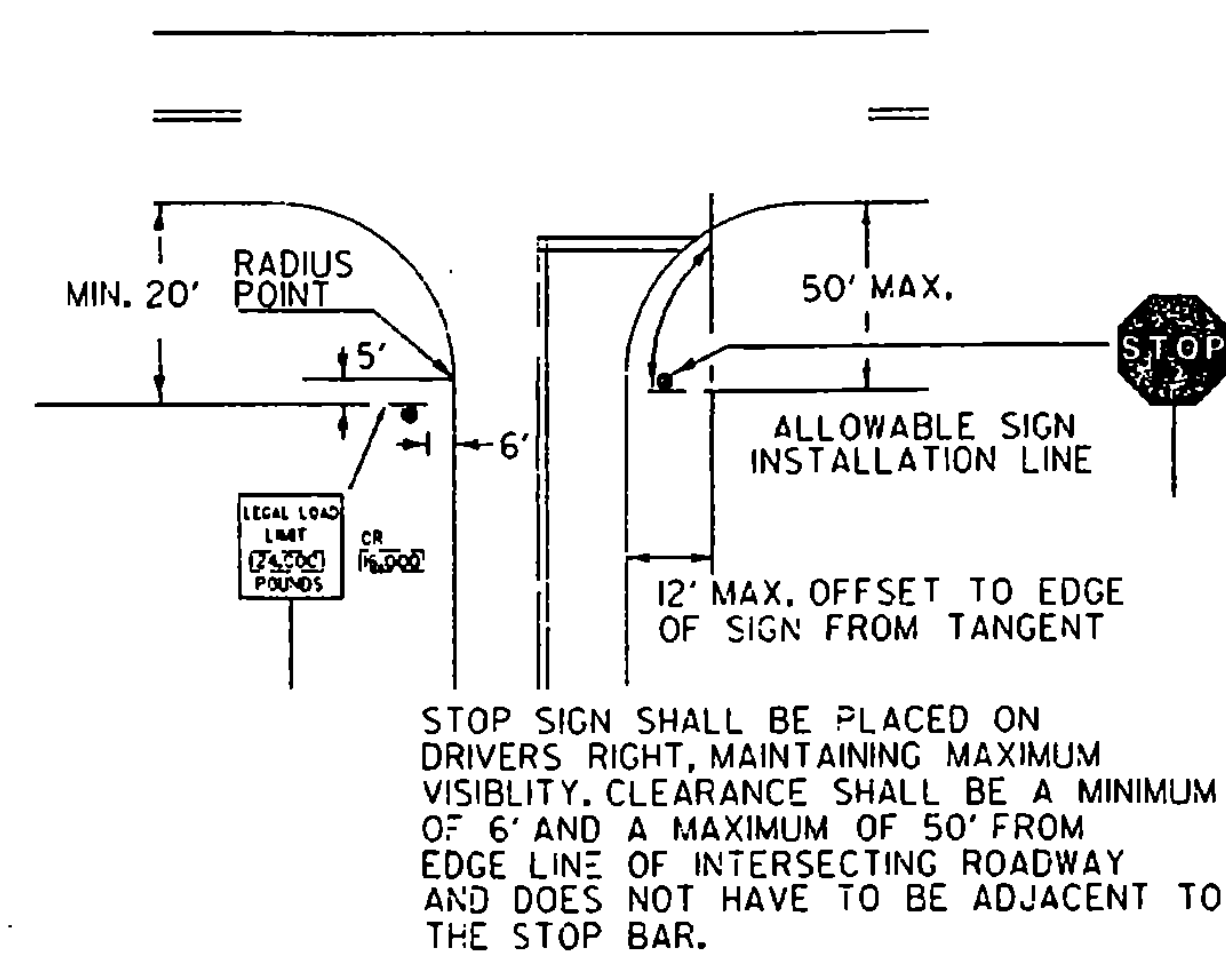
REVISIONS AND CORRECTIONS

APPROVED

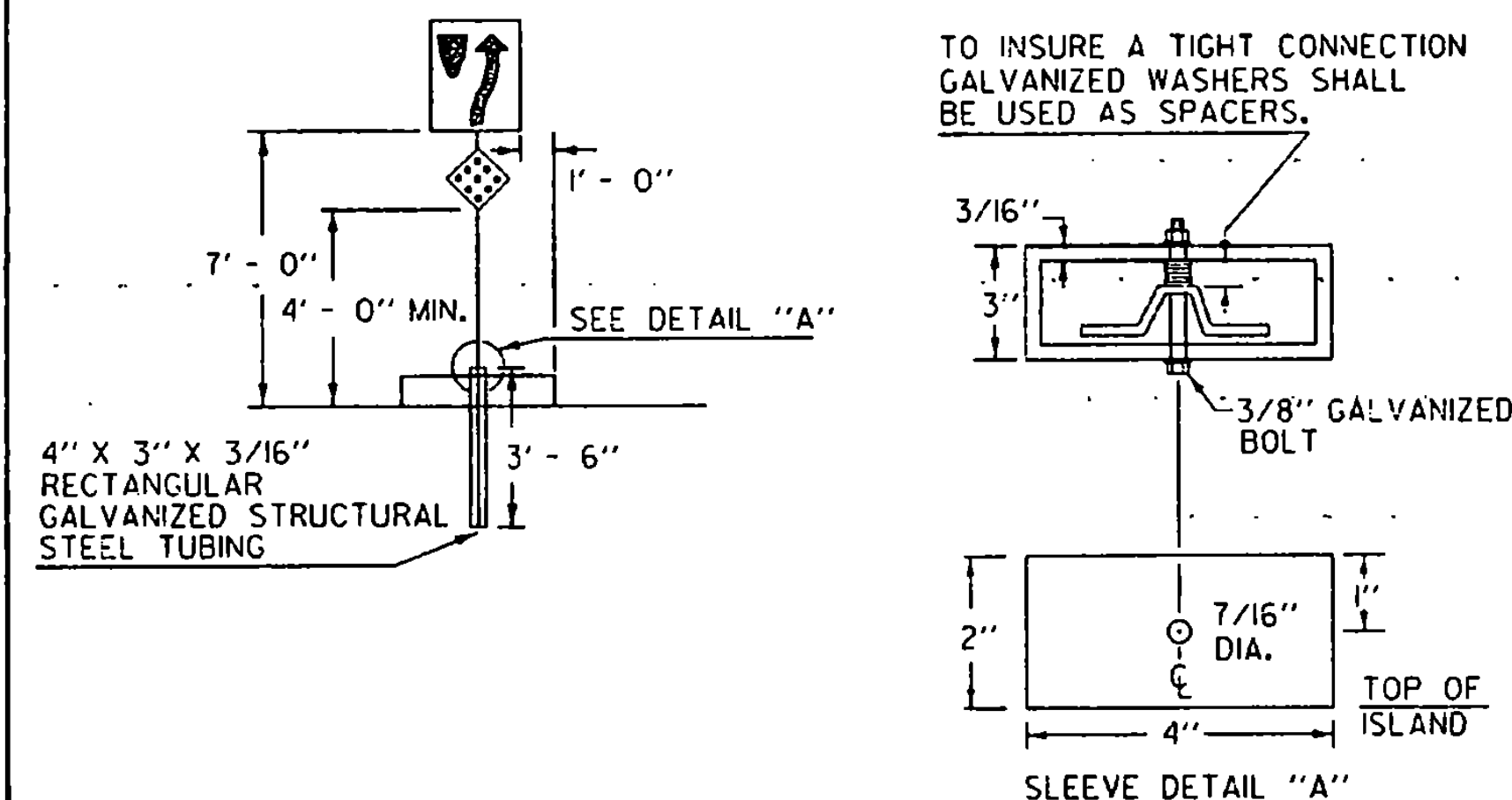
STANDARD SIGN PLACEMENT EXPRESSWAY AND FREEWAY

VERMONT AGENCY OF TRANSPORTATION

STANDARD E-120

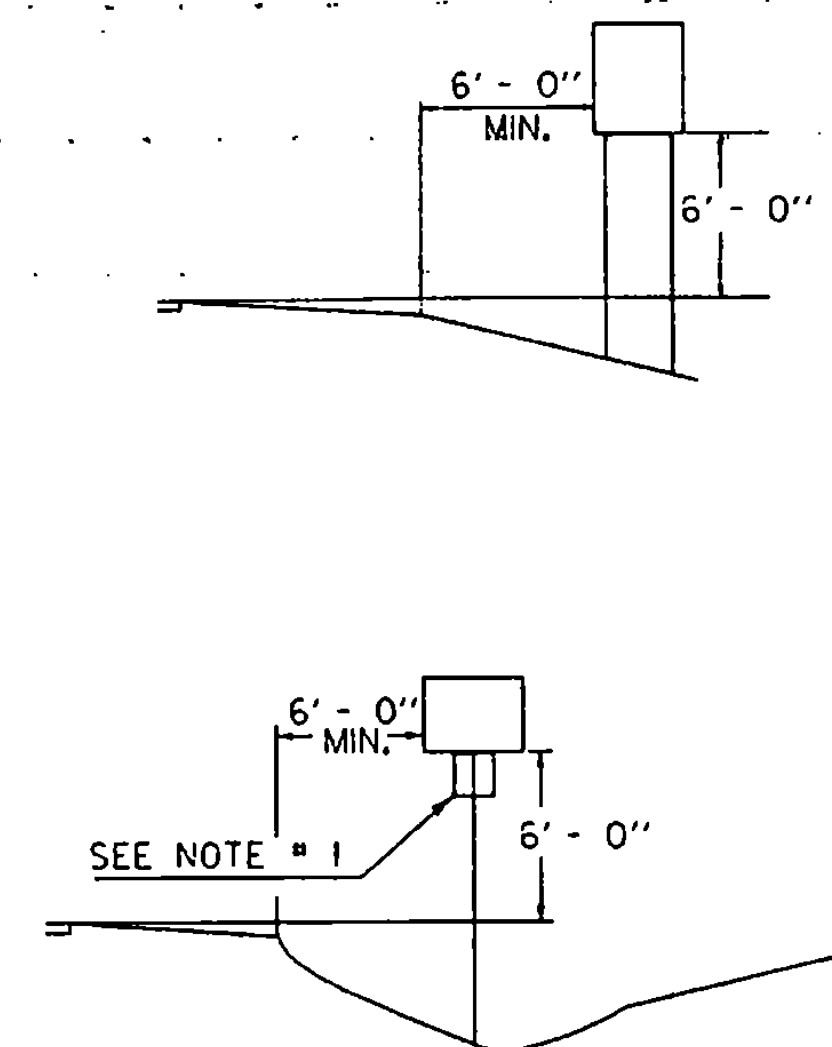


LEGAL LOAD LIMIT AND STOP SIGNS AT INTERSECTIONS WITH TOWN HIGHWAYS

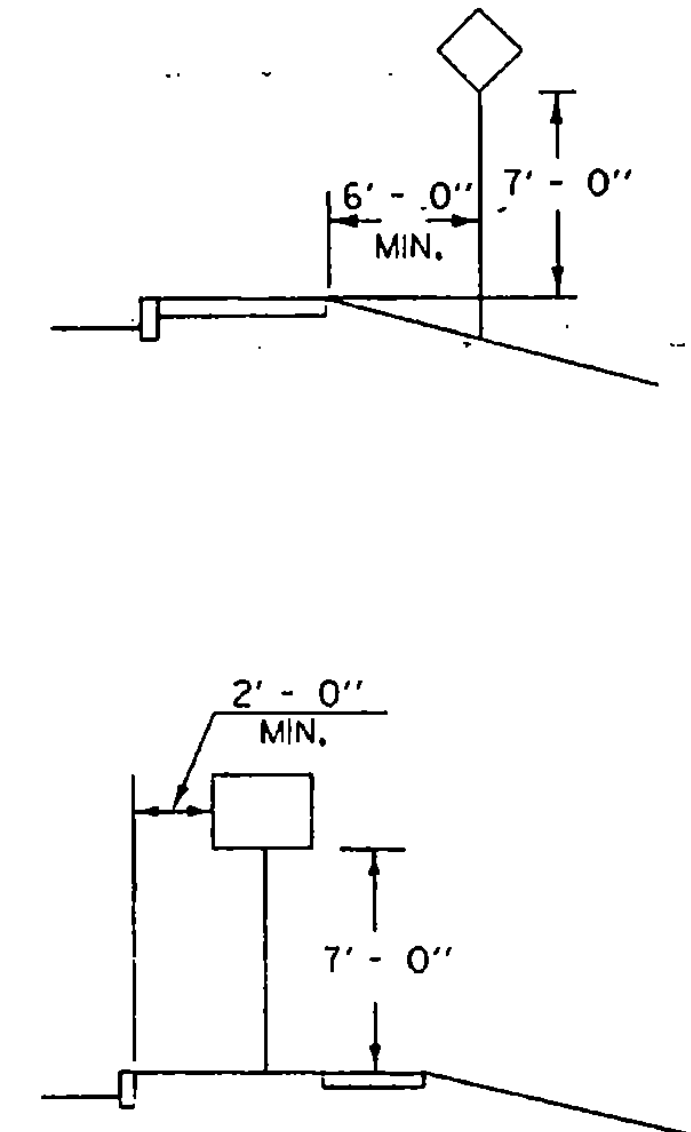


SIGNS ON MEDIAN ISLANDS IN THE LINE OF TRAFFIC

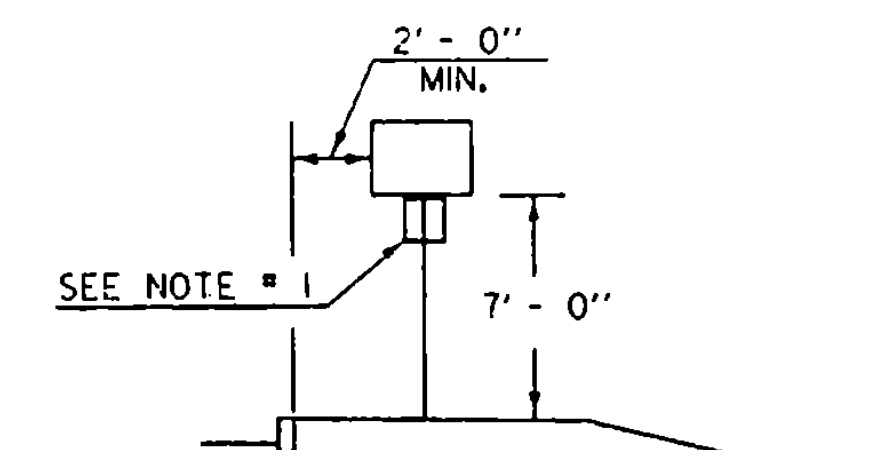
INCREASE VERTICAL CLEARANCE TO 7' IN AREAS OF FREQUENT ROADSIDE PARKING OR PEDESTRIAN ACTIVITY



RURAL



IF SUFFICIENT CLEARANCE IS NOT AVAILABLE BETWEEN CURB AND SIDEWALK MOUNT SIGN BEHIND SIDEWALK AS SHOWN AT TOP. CHECK FOR ADEQUATE R.O.W..



URBAN

NOTES:

1. IN BOTH RURAL AND URBAN LOCATIONS, IF A SECONDARY SIGN IS MOUNTED BELOW ANOTHER SIGN, THE MINIMUM CLEARANCE MAY BE REDUCED BY ONE FOOT.
2. IN RURAL AREAS WITH NO OR MINIMAL SHOULDER, THE LATERAL CLEARANCE TO THE EDGE OF A SIGN SHOULD BE A MINIMUM OF 12' FROM THE EDGE OF THE TRAVELED WAY.
3. ALSO SEE OTHER STANDARD SHEETS FOR MOUNTING CLEARANCE AND SPACING OF DESTINATION AND ROUTE MARKER ASSEMBLIES AND TOWN LINE SIGNS.

POST REFERENCE:

REFER TO THE DETAILS ON THE APPROPRIATE STANDARD DRAWING FOR INFORMATION CONCERNING THE PROPER MOUNTING OF SIGNS ON APPROPRIATE POSTS.

OTHER STDS. E-160 E-161 E-162 E-163 E-164 REQUIRED:

REVISIONS AND CORRECTIONS

JAN. 23, 1995 - DATE OF ORIGINAL ISSUE
AUG. 06, 1995 - VARIOUS MINOR NOTE REVISIONS

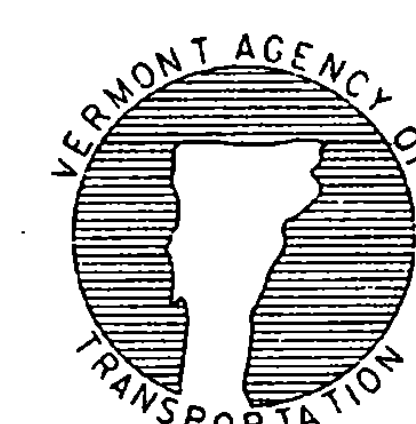
APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

APPROVED

Signature of the Director of Engineering
DIRECTOR OF ENGINEERING

Signature of the Traffic and Safety Engineer
TRAFFIC AND SAFETY ENGINEER

**STANDARD SIGN PLACEMENT
CONVENTIONAL ROAD**



**STANDARD
E-121**

/traf/std/stcel2l.dgn : s:del2l.l

TEXT SERIES DIMENSIONS (*)

ADDISON	C	23.51
ALBANY	C	21.52
ALBURY	C	21.16
ANDOVER	C	25.00
ARLINGTON	B	24.51
ATHENS	C	20.37
AVERILL	C	22.00
BAKERSFIELD	B	28.00 (16)
BARNARD	C	25.35
BARNET	C	20.65
BARRE CITY	B	28.00 (2)
BARRE TOWN	B	28.00 (50)
BARTON	C	21.11
BELVIDERE	C	28.00 (14)
BENNINGTON	B	27.20
BENSON	C	21.14
BERKSHIRE	C	24.26
BERLIN	C	18.72
BETHEL	C	19.80
BLOOMFIELD	B	26.83
BOLTON	C	20.33
BRADFORD	C	28.00 (13)
BRAINTREE	C	28.00 (21)
BRANDON	C	25.33
BRATTLEBORO	B	28.00 (30)
BRIDGEWATER	B	28.00 (23)
BRIDPORT	C	28.00
BRIGHTON	C	26.67
BRISTOL	C	22.66
BROOKFIELD	B	26.64
BROWNINGTON	B	28.00 (38)
BRUNSWICK	C	25.54
BURKE	B	17.41
BUELS GORE	B	28.00 (8)
BURLINGTON	B	27.20
CABOT	C	17.05
CALAIS	C	18.47
CAMBRIDGE	C	24.83
CANAAN	C	20.91
CASTLETON	B	24.47
CAVENDISH	B	24.02
CHARLESTON	C	28.00 (4)
CHARLOTTE	C	24.47
CHELSEA	C	23.99
CHESTER	C	23.57
CHITTENDEN	B	25.51
CLARENDON	C	25.31
COLCHESTER	C	27.47
CONCORD	C	25.31
CORINTH	C	22.68
CORNWALL	C	28.00 (12)
COVENTRY	C	28.00 (2)
CRAFTSBURY	C	28.00 (11)
DANBY	C	18.00
DANVILLE	C	25.92
DERBY	C	17.59
DORSET	C	20.42
DOVER	C	17.26
DUMMERSTON	C	28.00 (14)
DUXBURY	C	25.57
EDEN	C	13.19
ENOSBURG	C	28.00 (7)
EAST HAVEN	C	28.00 (2)
E. MONTPELIER	C	28.00 (50)
ELMORE	C	21.18
ESSEX	C	16.95
FAIRFAX	C	22.49
FAIRFIELD	C	27.05
FAIR HAVEN	C	28.00
FAIRLEE	C	21.73
FAYSTON	C	24.00
FERDINAND	C	24.35
FERRISBURG	C	27.04
FLETCHER	C	26.50
FRANKLIN	C	26.04

TEXT SERIES DIMENSIONS (*)

GEORGIA	C	23.07
GLOVER	C	20.81
GOSHEN	C	20.93
GLASTENBURY	B	28.00 (44)
GRAFTON	C	24.38
GRAND ISLE	B	28.00 (5)
GRANVILLE	C	28.00 (24)
GREENSBORO	B	28.00 (9)
GROTON	C	21.09
GUILDHALL	C	28.00 (23)
GUILFORD	C	26.44
HALIFAX	C	22.56
HANCOCK	C	24.91
HARDWICK	C	27.52
HARTFORD	C	28.00 (14)
HARTLAND	C	27.69
HIGHGATE	C	25.90
HINESBURG	B	24.41
HOLLAND	C	24.31
HUBBARDTON	B	28.00 (17)
HYDE PARK	B	27.71
IRA	C	6.44
IRASBURG	C	26.92
ISLE LA MOTTE	B	28.00 (34)
JAMAICA	C	23.49
JAY	C	9.86
JERICHO	C	22.66
JOHNSON	C	25.29
KIRBY	C	15.79
LANDGROVE	B	25.31
LEICESTER	C	28.00 (15)
LEMINOTON	B	24.04
LONDONDERRY	B	25.78
LOWELL	C	20.84
LUDLOW	C	21.72
LUNENBERG	B	25.06
LYNDON	C	20.76
MAIDSTONE	B	24.63
MANCHESTER	B	28.00 (6)
MARLBORO	C	28.00 (18)
MARSHFIELD	B	27.10
MENJON	C	21.64
MIDDLEBURY	B	27.9
MIDDLESEX	B	24.26
MIDDLETOWN SPR	B	28.00 (50)
MILTON	C	18.82
MONTGOMERY	B	28.00 (21)
MONTPELIER	C	25.67
MORETOWN	C	28.00 (23)
MORGAN	C	22.05
MORRISTOWN	B	28.00 (9)
MOUNT HOLLY	B	28.00 (50)
MOUNT TABOR	B	28.00 (50)
NEWARK	C	21.34
NEWBURY	C	25.68
NEWFANE	C	24.73
NEW HAVEN	B	27.11
NEWPORT CITY	B	28.00
NEWPORT TOWN	B	28.00 (25)
NORTH HERO	B	28.00 (12)
NORTHFIELD	B	26.36
NORTON	C	21.30
NORWICH	C	23.93
ORANGE	C	21.53
ORWELL	C	21.28
PANTON	C	21.11
PAWLET	C	20.46
PEACHAM	C	25.13
PERU	C	13.63
PITTSFIELD	C	28.00 (23)
PITTSFORD	C	28.00 (14)
PLAINFIELD	B	24.74
PLYMOUTH	C	28.00 (7)
POMFRET	C	24.47
POULTNEY	C	27.37

TEXT SERIES DIMENSIONS (*)

POWNA	C	21.92
PROCTOR	C	24.38
PUTNEY	C	20.65
RANDOLPH	C	28.00 (10)
READING	C	22.64
READSBORO	B	25.95
RICHFORD	C	26.67
RICHMOND	C	27.61
RIPTON	C	19.11
ROCHESTER	B	24.65
ROCKINGHAM	B	28.03
ROXBURY	C	25.31
ROYALTON	C	27.45
RUPERT	C	20.75
RUTLAND CITY	B	26.59
RUTLAND TOWN	B	28.00 (13)
RYEGATE	C	23.68
ST. ALBANS CITY	B	28.00 (50)
ST. ALBANS TOWN	B	28.00 (50)
ST. GEORGE	B	27.01
ST. JOHNSBURY	B	28.00 (30)
SALISBURY	B	25.13
SEASBURG	B	25.82
SHAFTSBURY	B	28.00 (14)
SHARON	C	21.55
SHEFFIELD	C	28.00 (10)
SHELBURNE	C	25.44
SHELDON	C	24.48
SHERBURNE	B	25.86
SHOREHAM	C	28.00 (20)
SHREWSBURY	B	28.00 (28)
SO. BURLINGTON	B	28.00 (27)
SOUTH HERO	B	28.00 (2)
SPRINGFIELD	B	28.00 (4)
STAMFORD	C	28.00 (6)
STARKSBORO	B	28.64 (8)
STOCKBRIDGE	B	28.00 (21)
STOWE	C	17.73
STRAFFORD	B	25.39
STRATTON	C	26.67
SUDBURY	C	25.59
SUNDERLAND	B	28.00 (8)
SUTTON	C	20.14
SWANTON	C	25.14
THETFORD	C	27.31
TINMOUTH	C	26.73
TOPSHAM	C	25.39
TOWNSHEND	B	26.46
TROY	C	13.76
TUNBRIDGE	B	24.18
UNDERHILL	B	28.00 (23)
VERGENNES	B	25.06
VERNON	C	21.46
VERSHIRE	C	26.39
WAITSFIELD	B	25.39
WALDEN	C	21.18
WALLINGFORD	B	28.00 (34)
WALTHAM	C	24.67
WARDSBORO	B	26.94
WARREN	C	21.62
WARRENS GORE	B	28.00 (23)
WASHINGTON	B	28.00 (4)
WATERBURY	B	26.21
WATERFORD	B	25.59
WATERVILLE	B	26.15
WEATHERSFIELD	B	27.93
WELLS	C	17.34
WEST FAIRLEE	B	27.00
WESTFIELD	C	28.00 (19)
WEST HAVEN	B	28.00 (18)
WESTFORD	C	28.00 (10)
WESTMINSTER	B	28.00 (27)
WESTMORE	C	28.00 (21)
WESTON	C	21.51

TEXT SERIES DIMENSIONS (*)

WEST RUTLAND	B	28.00 (7)
WEST WINDSOR	B	28.00 (15)
WEYBRIDGE	B	25.11
WHEELLOCK	C	28.00 (7)
WHITING	C	21.51
WHITINGHAM	B	27.27
WILLIAMSTOWN	B	26.65
WILLISTON	C	28.00 (5)
WILMINGTON	C	26.84
WINDHAM	C	24.66
WINDSOR	C	23.93
WINHALL	C	23.49
WINOOSKI	C	25.63
WOLCOTT	C	24.45
WOODBURY	B	24.77
WOODFORD	B	24.15
WOODSTOCK	B	26.52
WORCESTER	B	25.66
AVERYS GORE	B	26.35
BALTIMORE	B	24.09
BROOKLINE	B	24.20
GRANBY	C	21.78
HUNTINGTON	C	25.42 (20)
LEWIS	C	15.47
LINCOLN	C	22.45
MONKTON	C	25.30
SANDGATE	C	26.59 (20)
SOMERSET	C	26.79 (20)
STANNARD	C	26.70 (25)
VICTORY	C	22.90
WARNERS GRANT	B	28.60 (50)

THESE TOWNS ARE NOT INCLUDED IN THE ABOVE LIST BECAUSE THEY HAVE NO STATE HIGHWAYS, HOWEVER THE DETAILS ARE PROVIDED FOR INFORMATION PURPOSES:

ST. JOHNSBURY	B	28.00 (30)
SALISBURY	B	25.13
SEASBURG	B	25.82
SHAFTSBURY	B	28.00 (14)
SHARON	C	21.55
SHEFFIELD	C	28.00 (10)
SHELBURNE	C	25.44
SHELDON	C	24.48
SHERBURNE	B	25.86
SHOREHAM	C	28.00 (20)
SHREWSBURY	B	28.00 (28)
SO. BURLINGTON	B	28.00 (27)
SOUTH HERO	B	28.00 (2)
SPRINGFIELD	B	28.00 (4)
STAMFORD	C	28.00 (6)
STARKSBORO	B	28.64 (8)
STOCKBRIDGE	B	28.00 (21)
STOWE	C	17.73
STRAFFORD	B	25.39
STRATTON	C	26.67
SUDBURY	C	25.59
SUNDERLAND	B	28.00 (8)
SUTTON	C	20.14
SWANTON	C	25.14
THETFORD	C	27.31
TINMOUTH	C	26.73
TOPSHAM	C	25.39
TOWNSHEND	B	26.46
TROY	C	13.76
TUNBRIDGE	B	24.18
UNDERHILL	B	28.00 (23)
VERGENNES	B	25.06
VERNON	C	21.46
VERSHIRE	C	26.39
WAITSFIELD	B	25.39
WALDEN	C	21.18
WALLINGFORD	B	28.00 (34)
WALTHAM	C	24.67
WARDSBORO	B	26.94
WARREN	C	21.62
WARRENS GORE	B	28.00 (23)
WASHINGTON	B	28.00 (4)
WATERBURY	B	26.21
WATERFORD	B	25.59
WATERVILLE	B	26.15
WEATHERSFIELD	B	27.93
WELLS	C	17.34
WEST FAIRLEE	B	27.00
WESTFIELD	C	28.00 (19)
WEST HAVEN	B	28.00 (18)
WESTFORD	C	28.00 (10)
WESTMINSTER	B	28.00 (27)
WESTMORE	C	28.00 (21)
WESTON	C	21.51

NOTES:

- (*) REPRESENTS PERCENT OF REDUCTION IN LETTER TO LETTER SPACING.
- WORD TO WORD SPACING FOR MULTIPLE TEXT TOWN NAMES IS ADJUSTABLE TO ACCOMMODATE DIMENSION REQUIREMENTS.
- DIMENSIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED SLIGHTLY TO ACCOMMODATE VARIOUS MANUFACTURER'S LETTER WIDTHS.

MATERIALS

THE SIGN BASE MATERIAL SHALL BE HIGH DENSITY OVERLAIN PLYWOOD 3/4 INCH THICK THE REFLECTIVE MATERIAL SHALL BE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT SHALL BE CUT-OUT REFLECTORIZED LETTERS. ALL REFLECTIVE MATERIAL SHALL MEET THE MINIMUM REQUIREMENTS OF AASHTO TYPE II.

COLORS

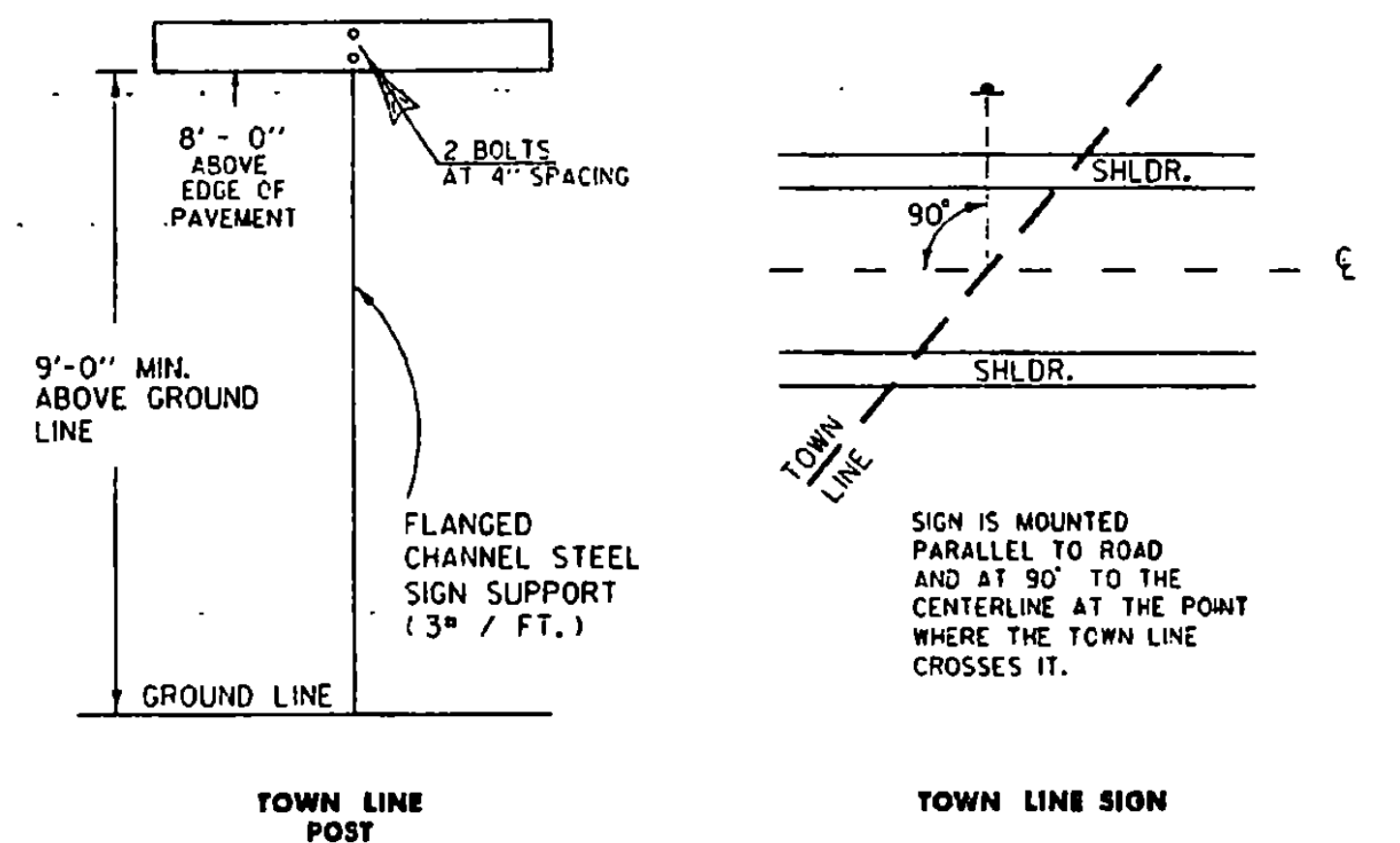
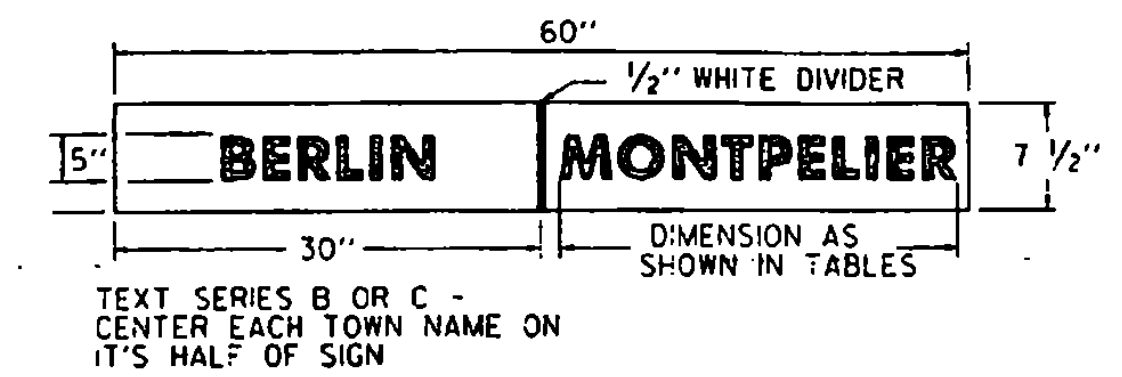
SIGNS SHALL HAVE A REFLECTORIZED WHITE OR SILVER TEXT ON A REFLECTORIZED GREEN BACKGROUND.

LETTERING

LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS APPROVED BY THE NATIONAL JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS

SIGNS SHALL MEET THE STATE SPECIFICATIONS FOR "TRAFFIC SIGNS". SEE THE APPROPRIATE STANDARD SHEETS FOR SIGN OFFSET PLACEMENT AND SIGN POST INFORMATION.



WHEN CROSSING COUNTY BOUNDRIES AN ADDITIONAL COUNTY LINE SIGN SHALL BE MOUNTED BELOW THE TOWN LINE SIGN.

COUNTY NAMES

TEXT	SERIES	DIMENSIONS
ADDISON CO.	C (4'')	28.00
BENNINGTON CO.	B (4'')	28.00 (30)
CALEDONIA CO.	B (4'')	27.62
CHITTENDEN CO.	B (4'')	28.00
ESSEX CO.	C	28.00
FRANKLIN CO.	B (4'')	25.04
GRAND ISLE CO.	B (4'')	28.00 (50)
LAMOILLE CO.	B (4'')	24.72
ORANGE CO.	B	27.59
ORLEANS CO.	B	28.00 (40)
RUTLAND CO.	B	28.00 (35)
WASHINGTON CO.	B (4'')	28.00 (50)
WINDHAM CO.	B	28.00 (40)
WINDSOR CO.	B	28.00 (40)

REVISIONS AND CORRECTIONS

JAN. 23, 1989 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - REARRANGED SHEET

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

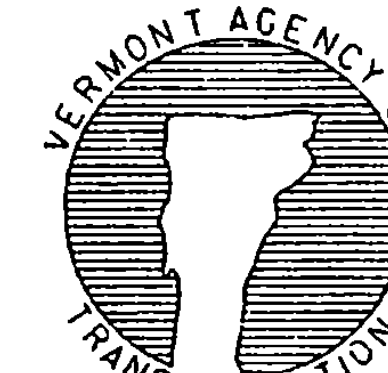
APPROVED

Stephen D. MacArthur
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

TOWN LINE SIGNS

**OTHER STDS.
REQUIRED:**



**STANDARD
E-124**

\\traf\std\stdel24.cgn : stdel24.l

TOWN	SERIES/TEXT DIMENSIONS		
	3"	4"	6"
NEW HAVEN	C 18.00	B 21.68	
N. HAVEN JCT.	C 18.00		
NEWBURY	C 19.43	C 20.57	B 22.00
NEWFAIR	C 14.86	C 19.80	
NEWPORT	C 15.02	C 20.02	
NEWPORT CTR.	C 18.00		
NORTH (W/SERIES (VILLAGE NAME))	C 11.08		
NORTH (W/SERIES (VILLAGE NAME))	C 13.90		
N. BENNINGTON	C 18.00		
N. CLARENDON	C 18.00		
N. CONCORD	C 18.00		
N. DORSET	C 17.75		
N. ENOSBURG	C 18.00		
N. FAIRFAX	C 18.00		
NORTHFIELD	C 18.00	B 21.07	
NORTHFIELD CTR.	C 22.00*		
NORTHFIELD FALLS	SEE NOTE A		
N. HARTLAND	C 18.00		
NORTH HERO	C 17.79		
N. HYDE PARK	C 18.00		
N. MONTPELIER	C 18.00		
N. PAWLET	C 17.77		
N. POWNAL	C 18.00		
N. RANDOLPH	C 18.00		
NORTH RUPERT	C 18.00		
N. SHELTON	C 18.00		
N. TROTTER	C 18.00		
N. TUNBRIDGE	C 18.00		
N. WESTMINSTER	C 22.00*		
N. WINDHAM	C 17.16		
NORTON	C 12.79		
NORWICH	C 14.37		
OLD			
OLD BENNINGTON	B 22.00*		
ORANGE	C 12.93		
ORLEANS	C 14.77		
ORWELL	C 17.02		
PASSUMPSIC	C 22.00		
PAWLET	C 12.29		
PERKINSVILLE	C 22.00		
PIERCE	C 18.00		
PIERCE COR.	C 17.85		
PITTSFIELD	C 22.00		
PITTSFORD	C 17.42		
PITTSFORD MILLS	C 22.00*		
PLAIN	C 18.00		
PLAINFIELD	C 17.05		
PLYMOUTH	C 22.00		
PLYMOUTH UNION	C 22.00*		
POINT	C 12.27		
POMFANOOSUC	B 18.00		
POND	C 11.70		
POST			
POST MILLS	C 18.00		
POULTNEY	C 16.44		
POWAL	C 13.17		
PROCTOR	C 14.65		
PROCTORSVILLE	C 18.00		
PUTNAMVILLE	C 17.84		
PUTNEY	C 12.41		
RANDOLPH	C 17.22		
RANDOLPH CTR.	C 18.00		
RAWSONVILLE	C 18.00		
READSBORO	C 18.00		
READSBORO FALLS	SEE NOTE A		
RICHFORD	C 16.02		
RICHMOND	C 16.59		
RICKER			
RICKER MILLS	C 18.00		
RIPTON	C 11.48		
RIVER	C 16.25		
ROBINSON	C 18.00		
ROCHESTER	C 22.00		
ROCKINGHAM	C 16.82		
ROCKY			
ROCKY DALE	C 17.91		
ROXBURY	C 15.21		
ROXBURY FLAT	C 18.00		
ROYALTON	C 16.49		
RUPERT	C 15.62		
RUTLAND	C 14.38		
RYEGATE	C 18.95		

TOWN	SERIES/TEXT DIMENSIONS		
	3"	4"	6"
ST. ALBANS	C 18.00	B 22.00	
ST. ALBANS BAY	C 18.00*		
ST. GEORGE	C 18.00		
ST. JOHNSBURY	C 22.00*	B 26.00*	
ST. JOHNSBURY CTR.	SEE NOTE A		
SAXTONS	C 22.00*	C 19.86	
SEARSBURG	C 15.49		
SEARSBURG	C 15.49	B 20.65	
SHAFTSBURY	C 18.00	B 22.00	
SHAFTSBURY CTR.	C 22.00*		
SHARON	C 12.95		
SHAWVILLE	C 17.78		
SHEFFIELD	C 17.78		
SHELBURNE	C 18.00	B 20.34	
SHELDON	C 18.00	C 19.60	
SHELDON JCT.	C 18.00		
SHELBURNE	C 18.00	B 20.68	
SHERBURN CTR.	C 18.00		
SHOREHAM	C 17.69		
SIMONSVILLE	C 17.31		
SIMPSONVILLE	C 18.00		
SOUTH (W/SERIES (VILLAGE NAME))	C 13.73		
SOUTH (W/SERIES (VILLAGE NAME))			
SOUTH ALBANY	C 18.00		
SOUTH BARRE	C 18.00		
S. BURLINGTON	C 18.00		
S. DORSET	C 17.75		
S. DUXBURY	C 17.69		
SOUTH HERO	C 17.68		
S. HINESBURG	C 18.00		
LONDONDERRY	C 18.00		
NEWBURY	C 17.57		
NORTHFIELD	C 18.00		
RANDOLPH	C 18.00		
ROYALTON	C 18.00		
SHAFTSBURY	C 22.00*		
STARKSBORO	C 22.00*		
STRAFFORD	C 18.00		
SOUTH VERNON	C 18.00		
SOUTH WALDEN	C 18.00		
S. WALLINGFORD	C 22.00*		
S. WOODSTOCK	C 18.00		
SPRINGFIELD	C 17.02	B 22.00	
SPRINGS	C 18.57		
STAMFORD	C 17.05		
STARKSBORO	C 17.17		
STATION	C 17.21		
STEVENS	C 18.98		
STEVENS MILLS	B 18.00		
STOCKBRIDGE	C 10.65		
STONE	C 14.18		
STRAFFORD	C 20.29		
SUDBURY	C 15.37		
SWANTON	C 15.1		
TAFTS	C 12.70		
TAFTS CORNER	C 18.00		
TAFTSVILLE	C 18.00		
TALCOTT	C 16.93		
TARBELLVILLE	C 18.00		
THEFTORD	C 18.00		
THEFTORD CTR.	C 18.00		
THEFTORD HILL	C 16.06		
TINMOUTH	C 21.40		
TOPSHAM	C 20.33		
TOWNSHEND	C 18.00		
TROY	C 8.270		
TUNBRIDGE	C 18.00		
TYSON	C 10.20		
UNDERHILL	C 17.91		
UNDERHILL FLATS	C 22.00*		
UNION	C 18.00		
VERGENNES	C 12.80		
VERNON	C 12.89		
VERSHIRE	C 15.85		
VILLAGE	C 17.60		
WALLINGFORD	C 18.00		
WATTS	C 12.48		
WATTS RIVER	C 18.00		
WALDEN	C 12.72		
WALDEN STA.	C 18.00		

TOWN	SERIES/TEXT DIMENSIONS		
	3"	4"	6"
WALLACE		C 19.31	
WALLACE-POND	C 22.00*		
WALLINGFORD	C 18.00		
WALTHAM	C 14.99		
WARDSBORO	C 18.00	B 21.54	
WARDSBORO CTR.	C 22.00*		
WASHINGTON	C 16.98		
WATERBURY	C 18.00	B 22.00	
WATERVILLE	C 18.00	B 20.95	
WEATHERSFIELD	C 18.00	B 26.00*	
WEATHERSFIELD BOW	SEE NOTE A		
WELLS	C 10.41		
WELLS RIVER	C 18.00	C 13.87	C 18.35
WELLS (W/SERIES (VILLAGE NAME))	C 8.990		
WEST (W/SERIES (VILLAGE NAME))	C 11.20		
W. ADDISON	C 18.00		
W. ARLINGTON	C 18.00		
W. BERKSHIRE	C 18.00		
WEST BERLIN	C 18.00		
W. BRAINTREE	C 18.00		
W. BRATTLEBORO	C 22.00*		
W. BRIDGEWATER	C 22.00*		
WEST BURKE	C 18.00		
W. CHARLESTON	C 22.00*		
W. CORNWALL	C 18.00		
W. DANVILLE	C 17.78		
WEST DOVER	C 17.94		
W. ENOSBURG	C 18.00		
WEST FAIRLEE	C 17.62		
WESTFIELD	C 17.19	C 22.00	
WEST GROTON	C 18.00		
W. HARTFORD	C 18.00		
WESTMINSTER	C 18.00	B 22.00	
WESTMORE	C 17.62	C 22.00	
WESTON	C 12.92	C 17.21	
WEST PAWLET	C 18.00		
W. RUPERT	C 18.00		
W. RUTLAND	C 17.25		
W. SWANTON	C 17.98		
W. TOPSHAM	C 17.51		
W. TOWNSHEND	C 18.00		
W. WARDEN	C 22.00*		
W. WOODSTOCK	C 18.00		
WEYBRIDGE	C 22.00*	C 22.00	
WEYBRIDGE HILL	C 17.07		
WHEELOCK	C 17.07	C 22.00	
WHITE RIVER	C 18.00		
WH. RIVER JCT.	C 18.00		
WHITING	C 12.92		
WHITINGHAM	C 18.00	C 17.22	B 21.18
WILDER	C 11.73	C 15.63	
WILLIAMSTOWN	C 18.00	C 26.00*	C 22.00
WILLISTON	C 17.02		
WILMINGTON	C 18.00	C 21.47	
WINDHAM	C 18.00	C 19.75	
WINDSOR	C 14.37	C 19.16	
WINDSOR	C 15.39	C 20.51	B 22.00
WOLCOTT	C 14.68	C 19.55	B 22.00
WOODBURY	C 18.00	C 22.00	
WOODFORD	C 17.91	C 22.00	
WOODSTOCK	C 18.00	C 21.20	
WORCESTER	C 18.00	C 20.52	

* ADJUST BORDER TO CENTER TEXT AND MILEAGE

NOTE A

THESE TEXTS MUST BE REDUCED TO 2" SERIES B:

NORTHFIELD FALLS 17.79
READSBORO FALLS 18.00
ST. JOHNSBURY CTR. 18.00
WEATHERSFIELD BOW 18.00

TEXT LAYOUT DIMENSIONS ARE BASED ON THE "LETTER & NUMERAL WIDTHS AND SPACE" TABLES FOUND IN THE "STANDARD HIGHWAY SIGNS" BOOKLET. MINOR VARIATIONS IN TEXT DIMENSIONS ARE ACCEPTABLE BASED ON INDIVIDUAL MANUFACTURER'S LETTER FABRICATION. SIGNIFICANT CHANGES WHICH AFFECT SIGN APPEARANCE SHALL BE BROUGHT TO THE ATTENTION OF THE VDOT'S TRAFFIC AND SAFETY DIVISION, BEFORE FABRICATION.

MATERIALS

THE SIGN BASE MATERIALS USED FOR THE SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

FLAT SHEET ALUMINUM 0.080"
HIGH DENSITY OVERLAP PLYWOOD 1/2"
GALVANIZED FLAT SHEET STEEL 16 GAGE

THE REFLECTIVE MATERIAL SHALL BE A SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT AND BORDER SHALL BE CUT-OUT REFLECTORIZED LETTERS. ALL REFLECTIVE SHEETING SHALL MEET THE MINIMUM REQUIREMENTS OF AASHTO TYPE II.

COLORS

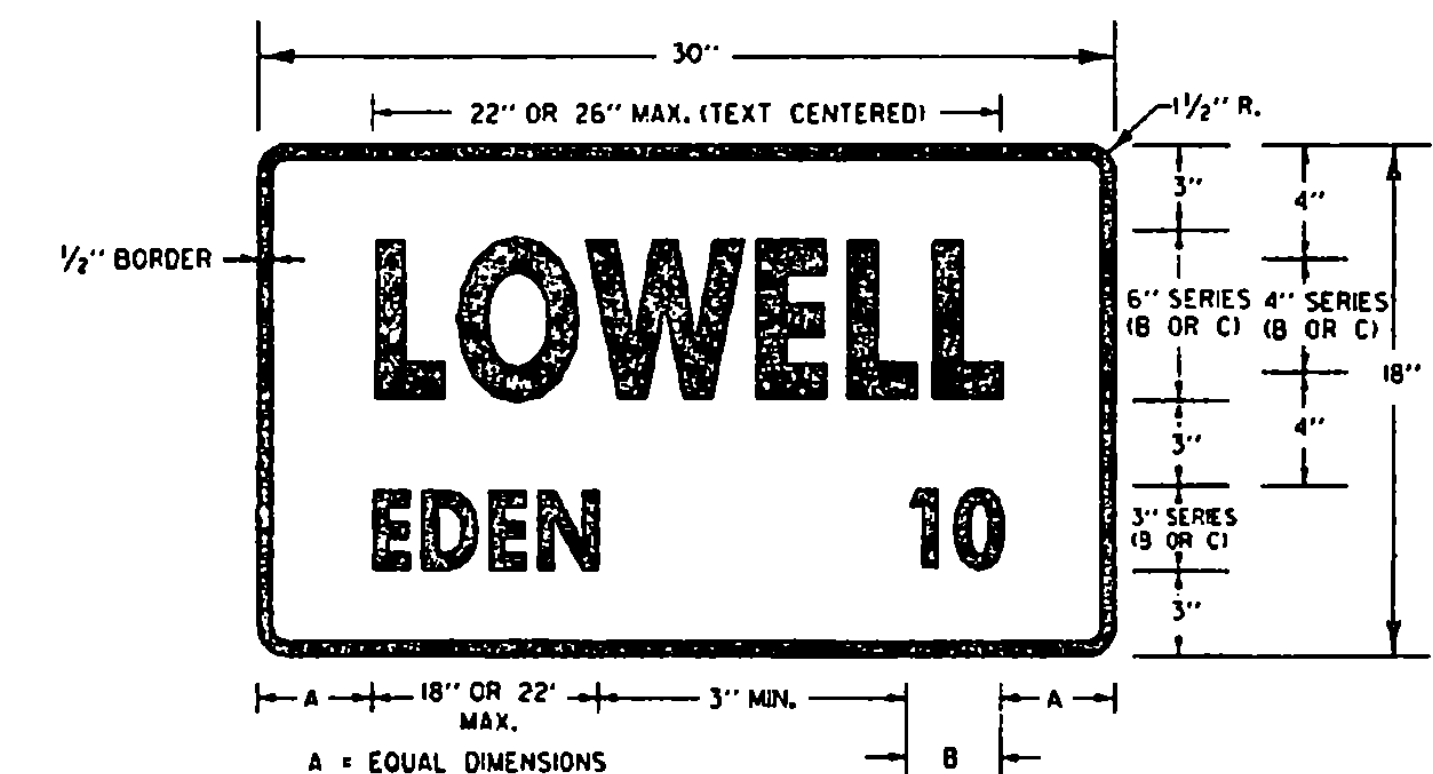
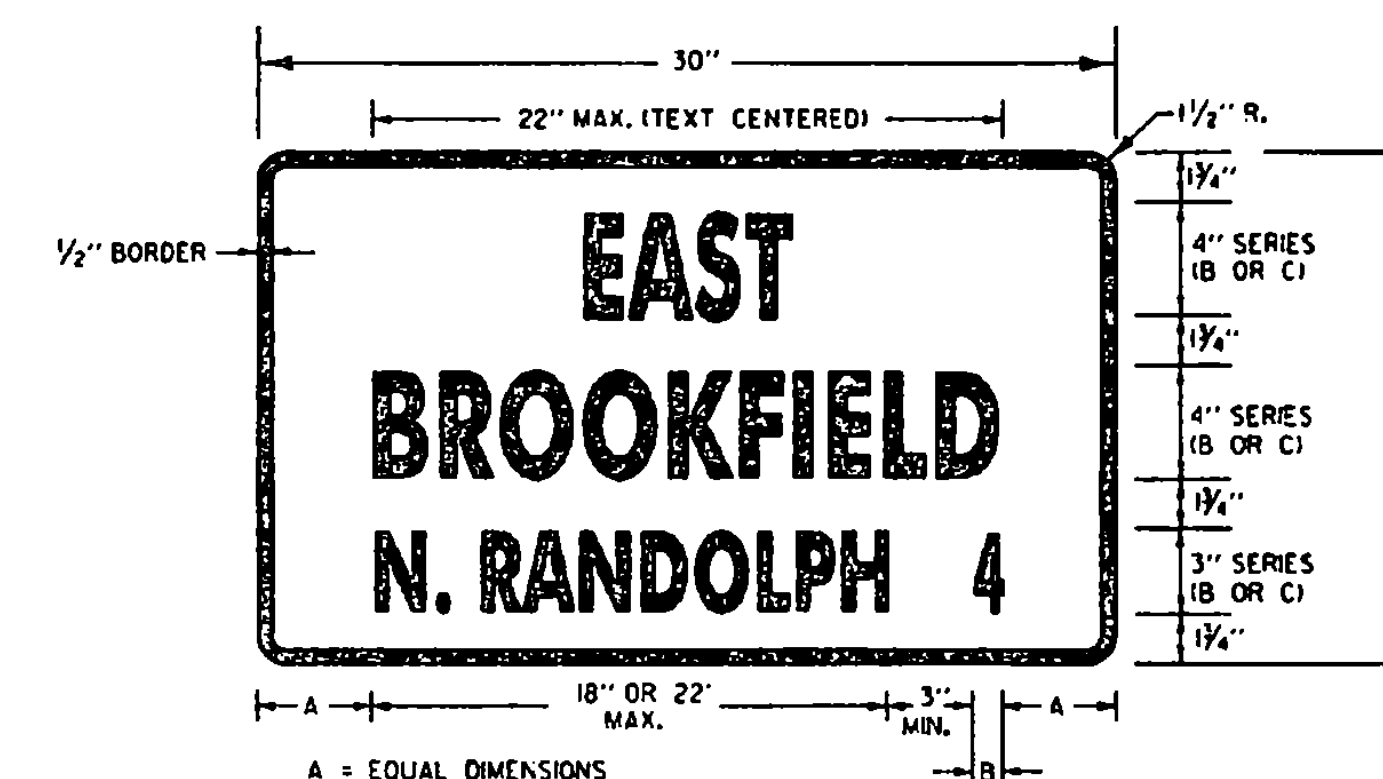
SIGNS SHALL HAVE A REFLECTORIZED WHITE OR SILVER TEXT AND BORDER ON A REFLECTORIZED GREEN BACKGROUND.

LETTERING

LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS APPROVED BY THE NATIONAL JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS

SIGNS SHALL MEET THE STATE SPECIFICATIONS FOR "TRAFFIC SIGNS". SEE THE APPROPRIATE STANDARD SHEETS FOR SIGN OFFSET PLACEMENT AND POST INFORMATION.



REVISIONS AND CORRECTIONS

OCT. 24, 1992 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - MINOR NOTE REVISIONS

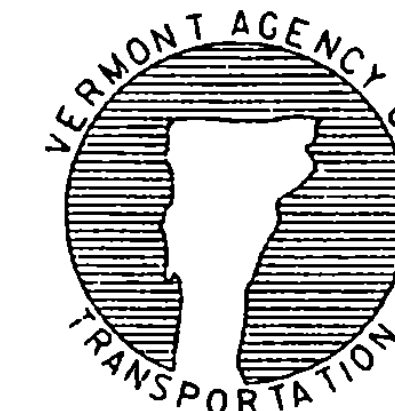
APPROVED

Samuel M. Allen
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

VILLAGE SIGNS N - W

OTHER STDS. REQUIRED:

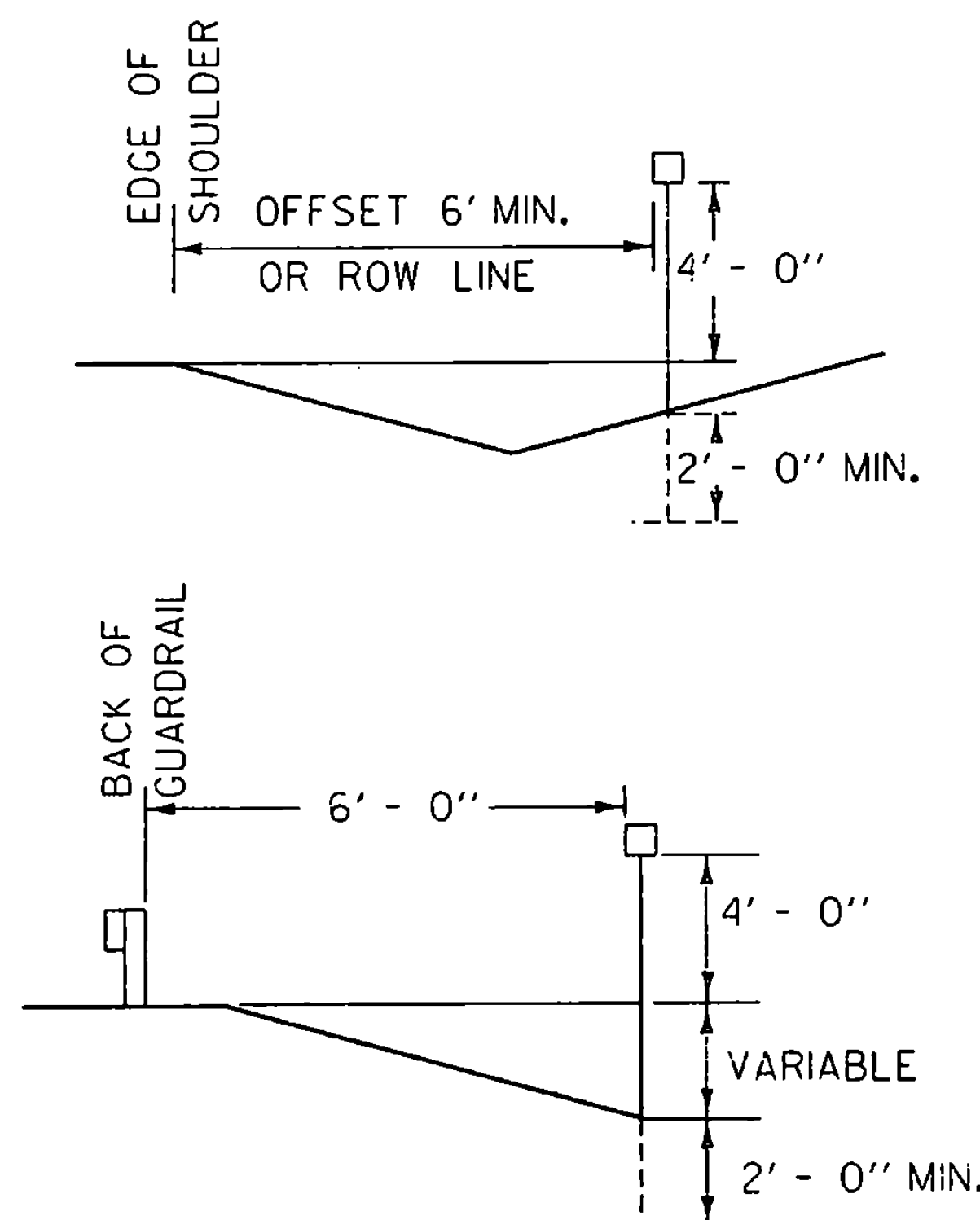


STANDARD E-128 B

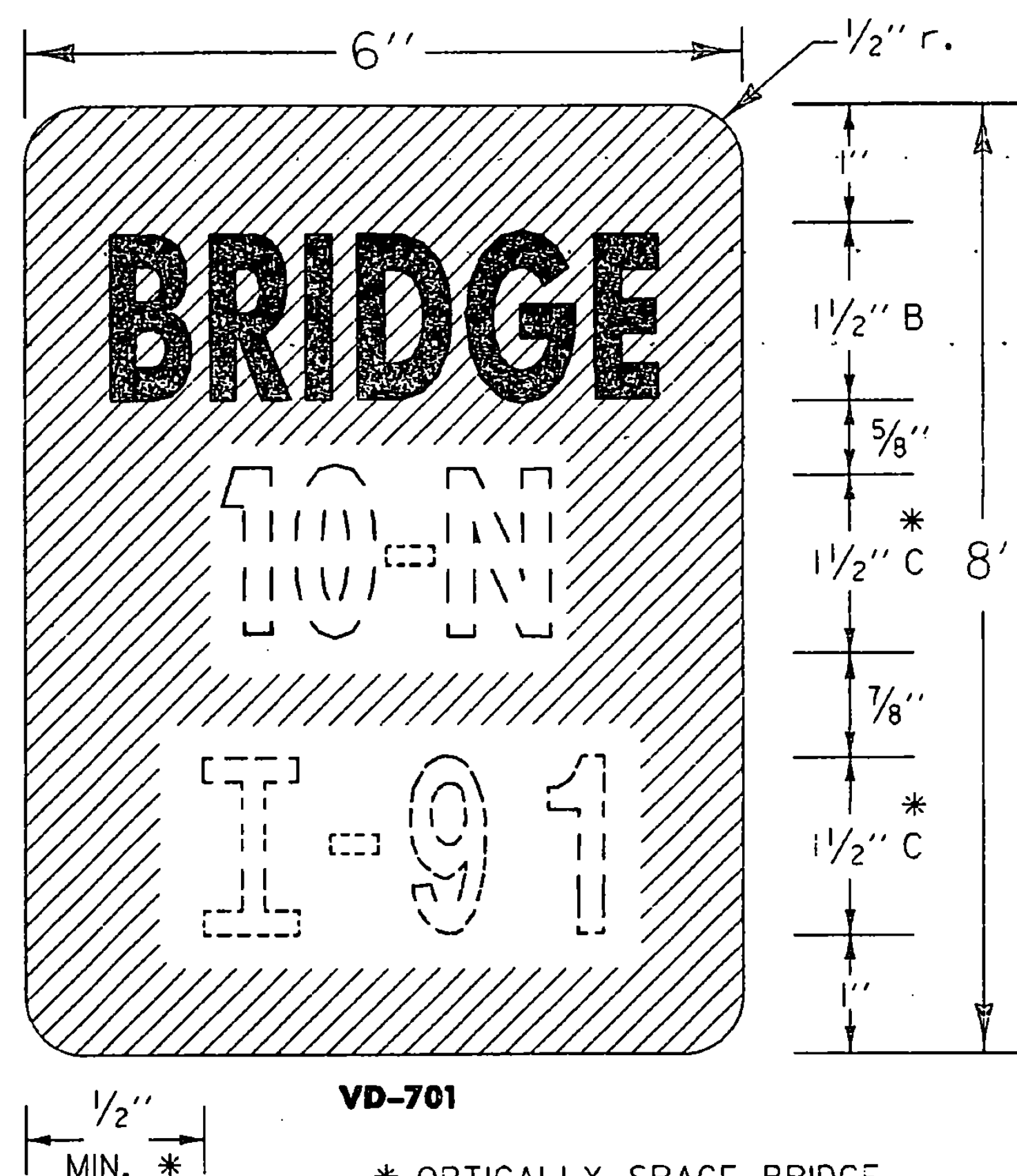
/trac/std/stdel28b.dgn : stdel28b.i

I-91
2"

HYPHENATED WORD DETAIL



FOR EXAMPLE, ROUTE NUMBERS
SHALL APPEAR AS: I-91, US5, VT22



VD-701

* OPTICALLY SPACE BRIDGE
AND ROUTE NUMBERS.
SERIES B LETTERS MAY
BE USED TO MAINTAIN
VISUAL INTEGRITY.

NOTES:

GENERAL:
DOTTED LINES AND NUMERALS INDICATE TEXT THAT VARIES.

PAYMENT:
BRIDGE PLAQUES SHALL BE PAID AS TRAFFIC SIGNS, TYPE 'A',
AND POSTS PAID AS FLANGED CHANNEL STEEL SIGN POSTS.

MATERIAL:
THE SIGN BASE MATERIAL SHALL BE 0.04" FLAT SHEET ALUMINUM.

COLORS:
THE SIGN SHALL HAVE A REFLECTORIZED WHITE TEXT ON REFLECTORIZED
GREEN BACKGROUND. THE COLORS SHALL CONFORM WITH THOSE FOUND
IN STANDARD COLOR TOLERANCE CHARTS AS APPROVED BY THE U.S.
DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

LETTERING:
LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS
FOR HIGHWAY SIGNS AS PRINTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

POSTS:
FLANGED CHANNEL STEEL 2"/FT POSTS SHALL BE USED WHEN THE POST LENGTH
EXCEEDS 7 FEET. FOR LENGTH OF 7 FEET OR LESS, A 1.12"/FT STEEL SIGN POST
SHALL BE USED.

OTHER SYDS.
REQUIRED:

REVISIONS AND CORRECTIONS

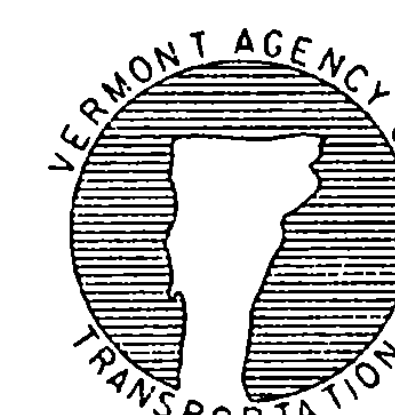
DEC. 17, 1989 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - MISC NOTE REVISIONS

APPROVED

Stephen D. MacArthur
DIRECTOR OF ENGINEERING

David A. Rorr
TRAFFIC AND SAFETY ENGINEER

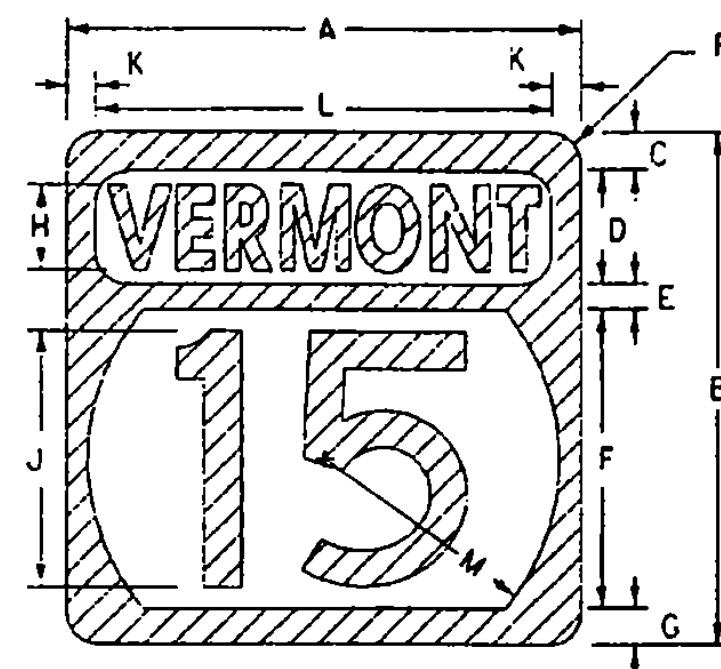
BRIDGE NUMBER PLAQUE



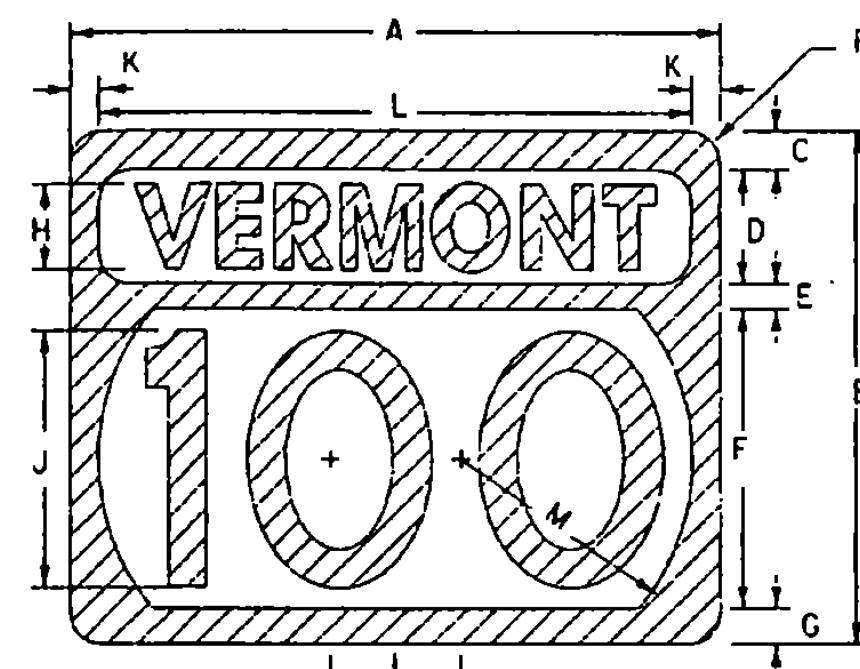
STANDARD
E-134

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION,
FHWA FINAL APPROVAL PENDING.

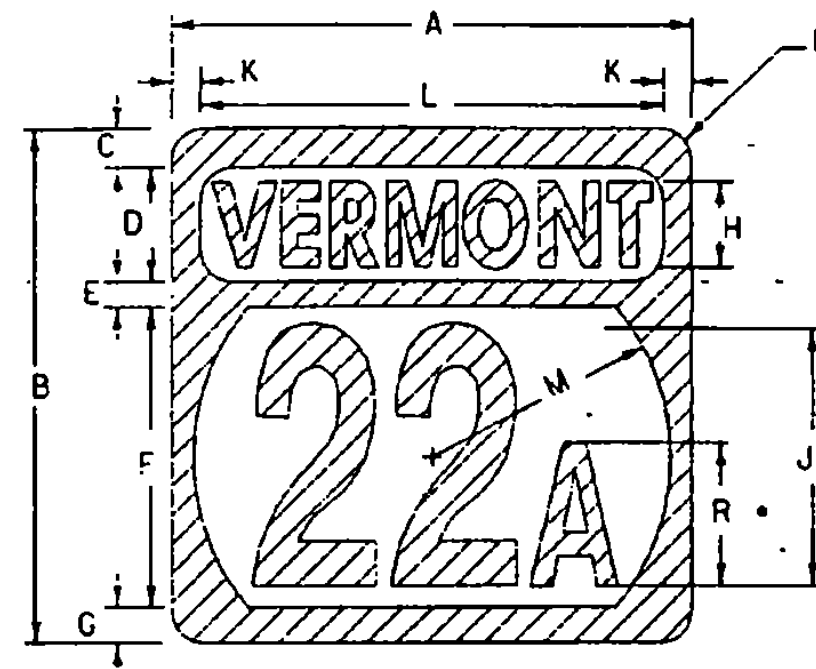
/traf/std/stdel34.dgn : stdel34.i



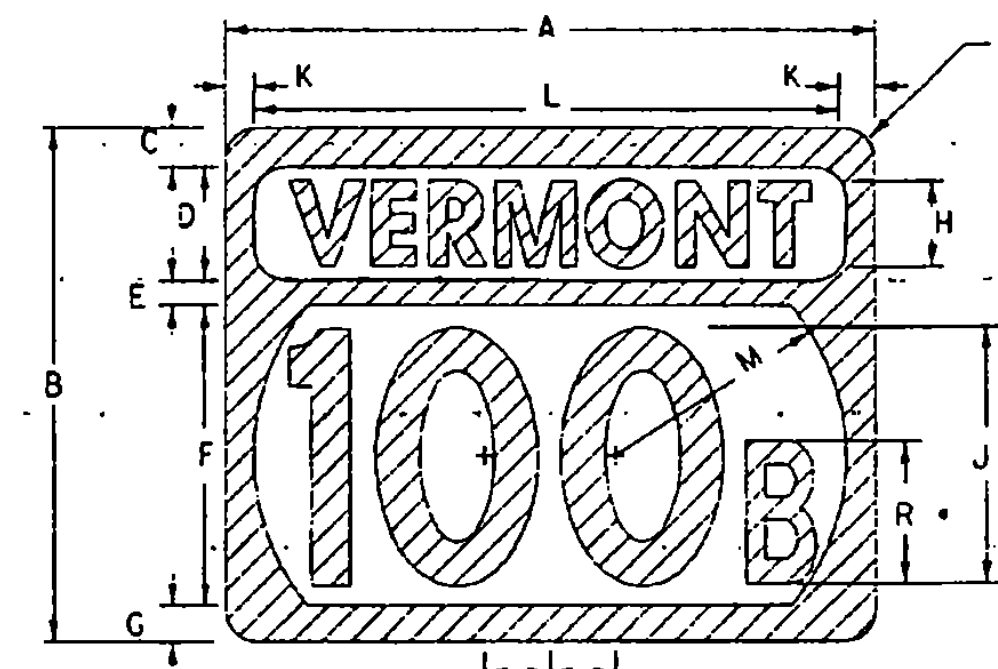
1 OR 2 DIGIT
STATE ROUTE MARKER



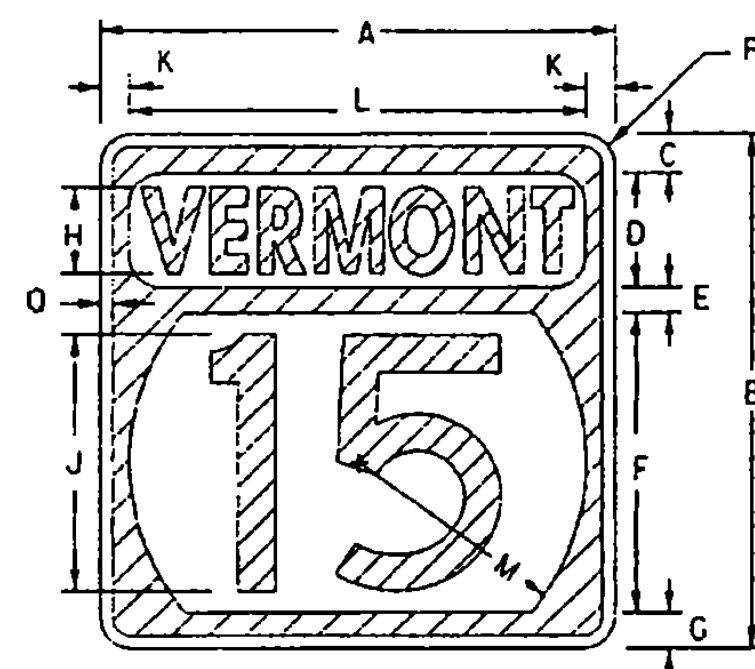
3 DIGIT
STATE ROUTE MARKER



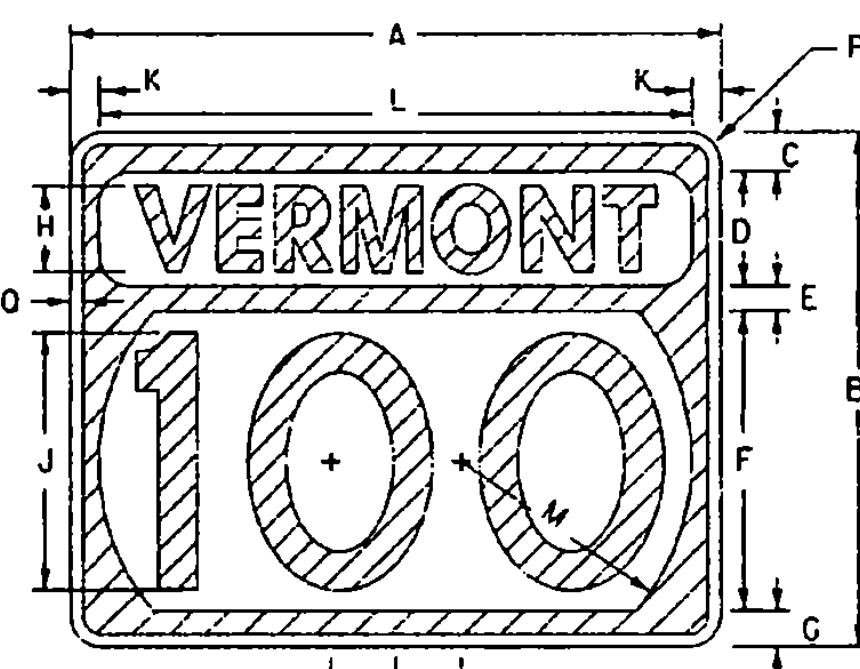
1 OR 2 DIGIT
ALTERNATE STATE
ROUTE MARKER



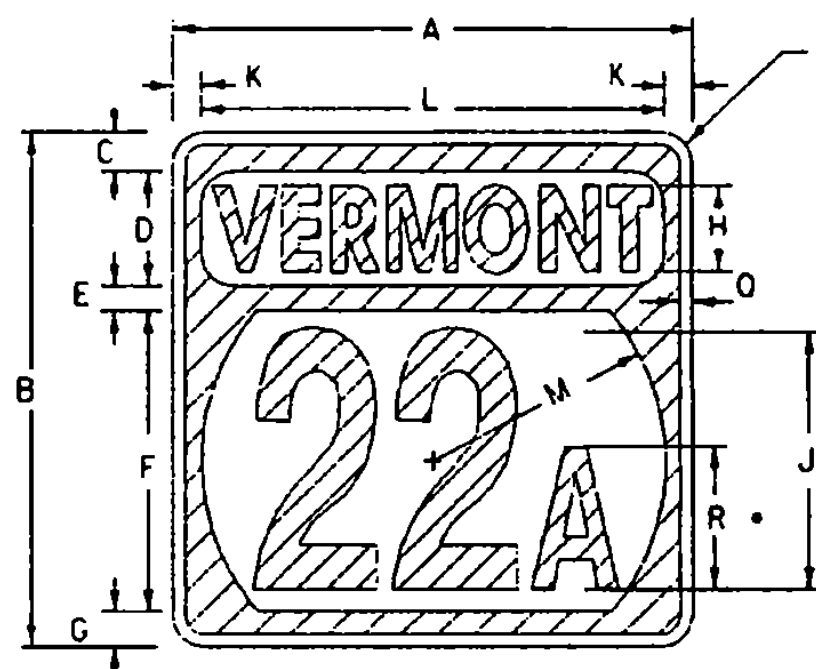
3 DIGIT
ALTERNATE STATE
ROUTE MARKER



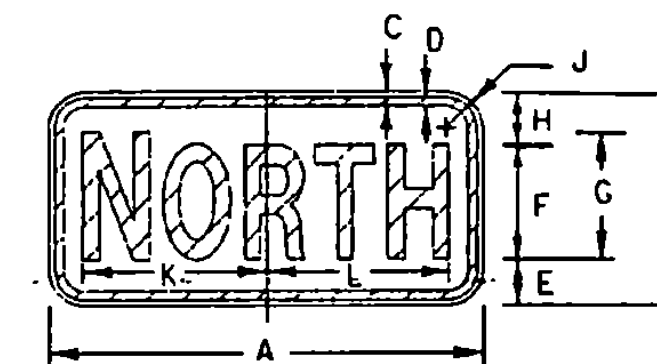
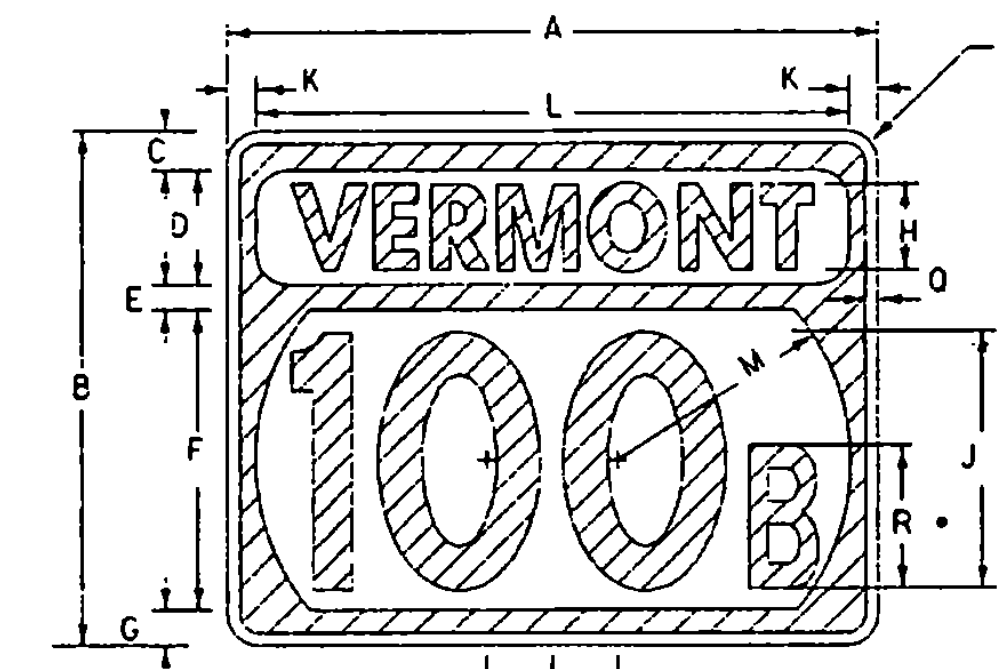
STATE ROUTE MARKER
FOR GUIDE SIGN USE.
(INTERSTATE TYPICAL)



• ALTERNATE ROUTE SIGNS:
OPTICALLY SPACE NUMERALS
ABOUT VERTICAL CENTER-
LINE AND REDUCE SPACING AS
NECESSARY FOR EACH ROUTE



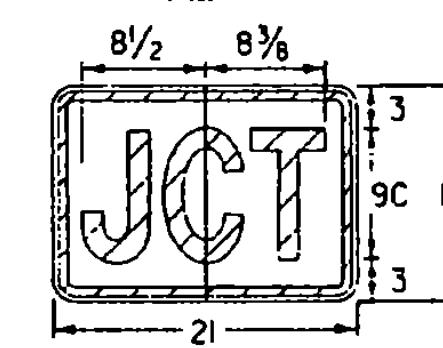
ALTERNATE STATE ROUTE MARKER
FOR GUIDE SIGN USE.
(INTERSTATE TYPICAL)



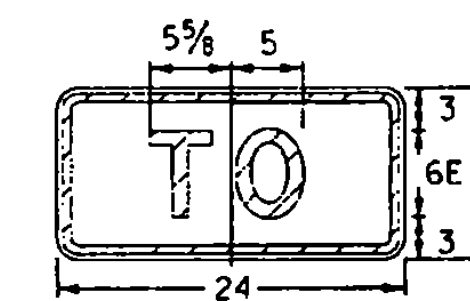
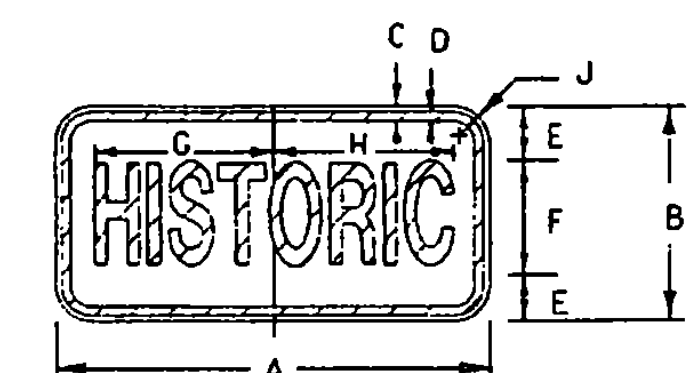
M3-1 M3-3 M3-2 M3-4

SIGN	DIMENSIONS (INCHES)												NORTH	SOUTH	EAST	WEST
	A	B	C	D	E	F	G	H	J	K	L	M	K	L	K	L
MIN. & STD.	24	12	3/8	3/8	2 3/4	6C	7C	3 3/4	1 1/2	10 1/4	10 1/4	10 1/4	10 1/4	9 3/4	7 3/4	8 3/4
SPECIAL	30	15	3/8	3/8	3 3/4	8C	9C	3 3/4	1 1/2	12 3/4	12 3/4	12 3/4	10 3/4	11 3/4	11 3/4	11 3/4

M2-1



CARDINAL DIRECTION MARKER



M4-5
TRAILBLAZER

SIGN	DIMENSIONS (INCHES)								
	A	B	C	D	E	F	G	H	J
MIN. & STD.	24	12	3/8	3/8	3 1/2	5B	10 1/8	9 3/8	1 1/2
SPECIAL	30	15	3/8	5/8	4	7B*	12 3/8	12 3/8	1 1/2

* REDUCE SPACING 35%

MATERIALS

THE SIGN BASE MATERIAL MAY BE ANY OF THE FOLLOWING, WITH THE MINIMUM THICKNESSES AS NOTED:

FLAT SHEET ALUMINUM
LESS THAN 24" X 24" 0.060"
WHEN USED ON GUIDE SIGNS 0.080"
24" X 24" 30" X 24" 0.080"
36" X 36" 45" X 36" 0.100"

GALVANIZED FLAT SHEET STEEL

LESS THAN 24" X 24" 18 GAGE
WHEN USED ON GUIDE SIGNS 16 GAGE
24" X 24" 30" X 24" 16 GAGE
36" X 36" 45" X 36" 14 GAGE

THE REFLECTIVE MATERIAL SHALL BE WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND. THE TEXTS MAY BE LETTERING FILM, SILK SCREENED, OR HAND PAINTED.

COLORS

COLORS FOR GUIDE USE: TEXT AND SHIELD - GREEN (REFL.) BACKGROUND AND BORDER - WHITE (REFL.)
STATE ROUTE MARKERS SHALL HAVE REFLECTIVE GREEN TEXT AND BORDERS ON REFLECTORIZED WHITE BACKGROUNDS.
GREEN AREAS ARE INDICATED BY SINGLE LINE CROSSHATCHING

LETTERING

LETTERS AND DIGITS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND FHWA.

SPECIFICATIONS

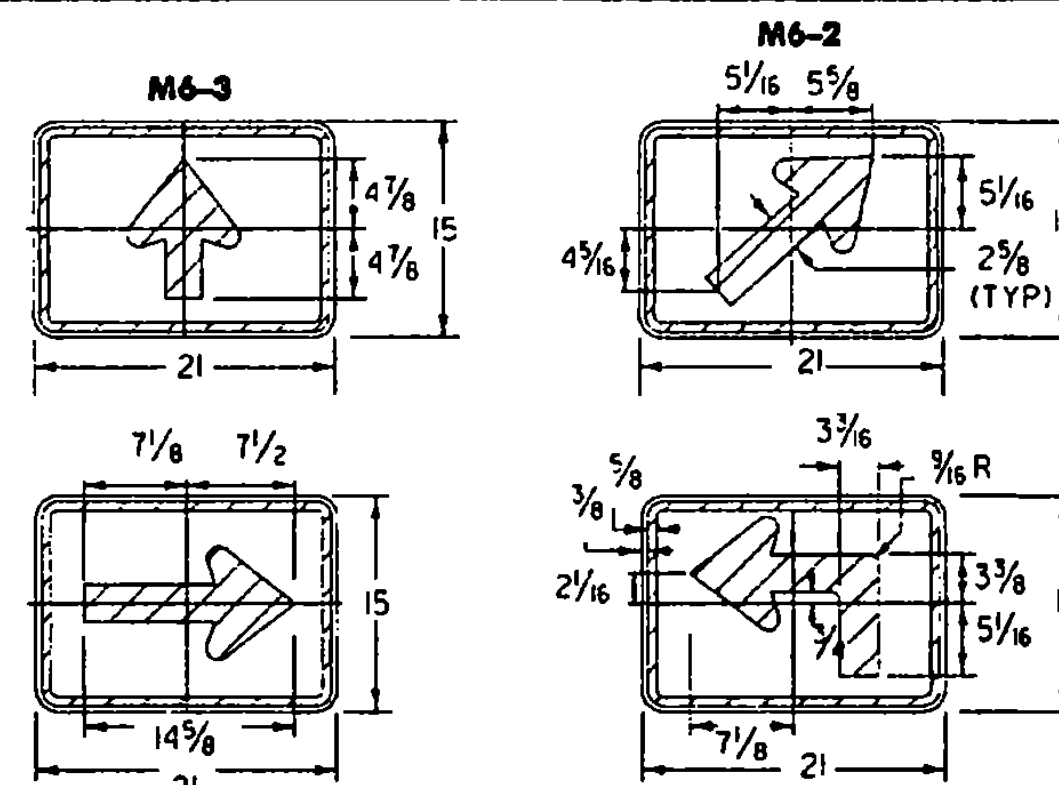
STATE ROUTE MARKERS AND AUXILIARY ROUTE MARKERS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR TRAFFIC SIGNS.

DESIGNS

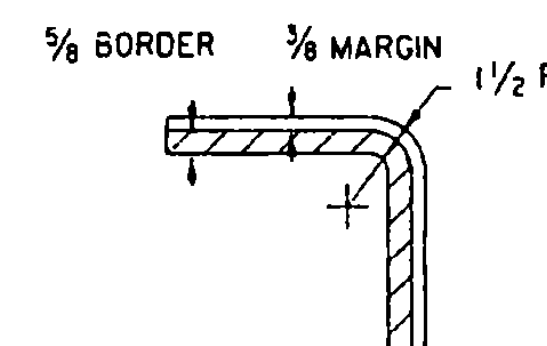
THE DESIGNS OF STATE ROUTE MARKERS AND AUXILIARY MARKERS SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND FHWA.

OTHER STDS.
REQUIRED:

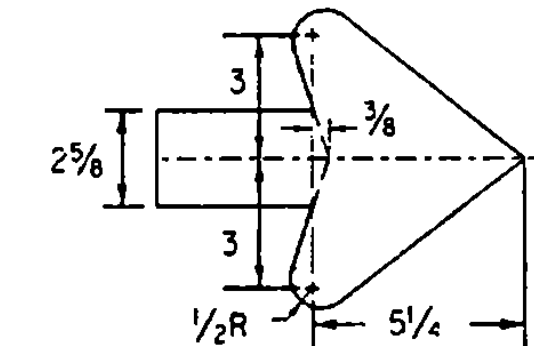
SIGN	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	
1,2-digits	24	24	1½	6	1	14	1½	4C	12D	1	22	11	-	1½	½	7B	
1,2-digits	36	36	2⅝	8	1¼	21	2⅝	6C	18D	2	32	16½	-	2¼	⅝	10B	
3-digits	30	24	1½	6	1	14	1½	4D	12D	1	28	11	3	1½	½	7B	
3-digits	45	36	2⅝	8	1¼	21	2⅝	6D	18D	2	41	16½	4½	2¼	⅝	10B	



M6-1 M5-1
DIRECTION ARROW OR ADVANCE TURN ARROWS



TYPICAL RADIUS DETAIL



TYPICAL ARROW DETAIL

(ALL DIMENSIONS IN INCHES)

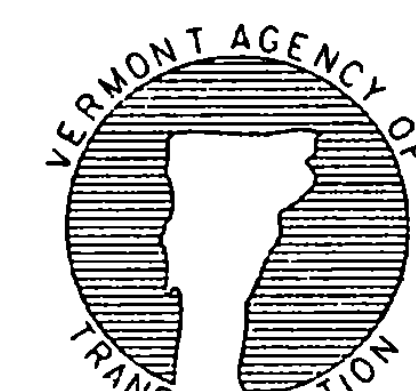
REVISIONS AND CORRECTIONS
AUG. 08, 1995 - DATE OF ORIGINAL ISSUE

APPROVED

Stephen A. MacArthur
DIRECTOR OF ENGINEERING

David A. Rorr
TRAFFIC AND SAFETY ENGINEER

STATE ROUTE MARKER SIGN DETAILS



STANDARD
E-136 B

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

/traf/std/stdel36b.dgn : stdel36b.l

MILEMARKER INFORMATION

IN ORDER TO PROVIDE FOR AN ACCURATE SYSTEM OF LOCATION, MILEMARKERS ARE INSTALLED ALONG U.S. AND STATE HIGHWAYS, CLASS I TOWN HIGHWAYS, FEDERAL AID PRIMARY AND FEDERAL AID SECONDARY HIGHWAYS.

THE FOLLOWING INFORMATION IS PROVIDED FOR INSTALLATION GUIDANCE.

MILEMARKERS WILL NORMALLY BE INSTALLED AT EACH 0.20 MI. INTERVAL, ALTERNATING FROM ONE SIDE OF THE ROAD TO THE OTHER, THUS HAVING A SIGN FACING TRAFFIC EACH 0.40 MILE. A MILEMARKER WILL ALSO BE INSTALLED AT EACH INTERSECTION, ON THE POST WITH THE STOP SIGN. (MILEMARKER TO BE PLACED PARALLEL TO MAINLINE VISIBLE TO TRAFFIC.) ANY MILEMARKER LOCATION FALLING WITHIN 0.05 MI. OF AN INTERSECTION WILL BE OMITTED. IF A NORMAL MILEMARKER LOCATION FALLS WITHIN 50' OF AN EXISTING HIGHWAY SIGN, THE MILEMARKER WILL BE INSTALLED ON THE EXISTING POST. WHEN NORMAL LOCATION OF A MILEMARKER IS UNDESIRABLE, I.E. ON A LAWN, DRIVEWAY, LEDGE, ETC., AN ATTEMPT WILL BE MADE TO LOCATE IT ACROSS THE ROAD. IF NO SUITABLE LOCATION CAN BE FOUND WITHIN 50' OF THE NORMAL LOCATION ON EITHER SIDE OF THE ROAD, IT MAY BE OMITTED. IF A NORMAL MILEMARKER LOCATION FALLS WITHIN 50 FT. OF A POWER POLE, MAIL BOX OR OTHER OBJECT WHICH WILL GIVE IT PARTIAL PROTECTION, LOCATE IT NEAR OR AT SUCH PROTECTIVE FEATURE.

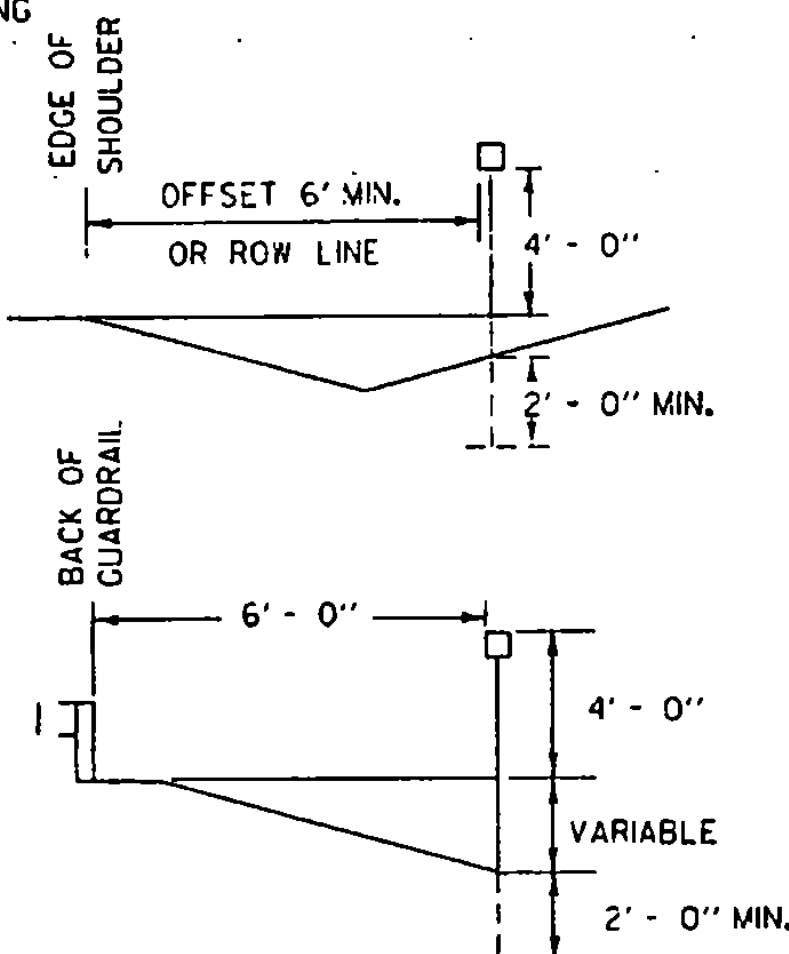
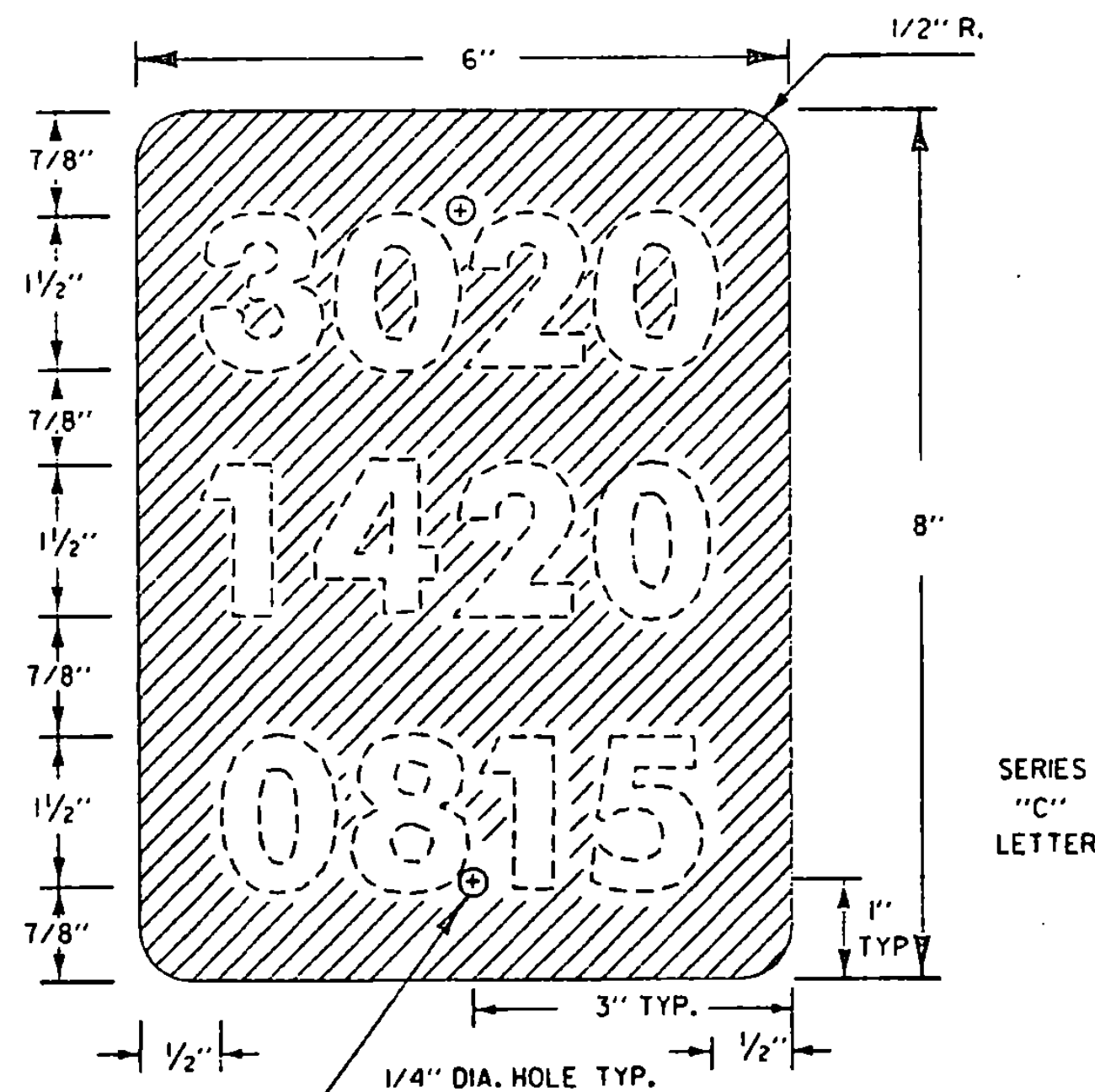
ON CLASS I TOWN HIGHWAYS (CITIES, VILLAGES) OR OTHER CONGESTED AREAS, MILEMARKERS WILL ONLY BE INSTALLED ON EXISTING SIGN POSTS AND WILL CARRY THE ACTUAL MILEAGE TO THAT LOCATION. A MILEMARKER EACH 0.10 +/- MILE IS DESIRABLE THROUGH SUCH AREAS.

THE TOP ROW OF NUMERALS INDICATE THE ROUTE NUMBER. THESE INCLUDE:

- 1) THE STATE ROUTE NUMBER, THE FOURTH NUMERAL OF WHICH BEING THE LETTER DESIGNATION. THUS, U.S. 2 WOULD BE 0020, ROUTE 100B WOULD BE 1002, ETC.
- 2) A 9000 SERIES NUMBER FOR NAMED STATE HIGHWAYS, CLASS I AND II TOWN HIGHWAYS AS LISTED ON THIS SHEET.
- 3) FEDERAL AID SECONDARY ROUTES ON TOWN HIGHWAYS USE F.A.S. ROUTE DESIGNATION NUMBERS, AS SHOWN ON THE PLANNING DIVISIONS MAP TITLED "FEDERAL AID SYSTEMS ON VERMONT HIGHWAYS".

THE SECOND ROW OF NUMERALS INDICATE THE COUNTY AND TOWN. THE COUNTY IS INDICATED IN THE FIRST TWO NUMBERS, CODED ALPHABETICALLY. THE TOWN IS INDICATED IN THE LAST TWO NUMBERS, CODED ALPHABETICALLY WITHIN THE COUNTY. THUS WATERSBURY, THE EIGHTEENTH TOWN ALPHABETICALLY, IN WASHINGTON COUNTY, THE TWELFTH COUNTY ALPHABETICALLY, WOULD BE INDICATED AS 1218 ON THE MARKER.

THE BOTTOM ROW OF NUMERALS INDICATES THE MILEAGE IN HUNDRETHS FROM THE TOWN LINE OR BEGINNING OF A ROUTE (TRAVELING SOUTH TO NORTH OR WEST TO EAST). THE ROUTE DIRECTION IS ESTABLISHED USING THE AGENCY'S ROUTE LOG AND PROGRESS CHARTS AS A GUIDE.



CLASS I AND II TOWN HIGHWAYS

ROUTE CODE NUMBER	NAMED STATE HIGHWAY
9020	BARNET STATE HIGHWAY
9025	BENNINGTON NORTH STATE HIGHWAY
9030	BERLIN STATE HIGHWAY
9090	BARTLEBORO STATE HIGHWAY
9150	CASTLETON STATE HIGHWAY
9180	COVENTRY STATE HIGHWAY
9210	FAIR HAVEN STATE HIGHWAY
9240	FAIRLEE STATE HIGHWAY
9270	FERRISBURG STATE HIGHWAY
9330	MAIDSTONE STATE HIGHWAY
9360	MIDDLESEX STATE HIGHWAY
9390	MONTPELIER STATE HIGHWAY
9420	MONTPELIER JUNCTION STATE HIGHWAY
9430	NEWBURY STATE HIGHWAY
9480	NORTON STATE HIGHWAY
9540	NORWICH STATE HIGHWAY
9600	PUTNEY STATE HIGHWAY
9630	QUECHEE STATE HIGHWAY
9720	ST. ALBANS ST. HWY. SOUTH
9730	ST. JOHNSBURY ST. HWY.
9750	SOUTH ALBURG STATE HIGHWAY
9840	WESTMINSTER STATE HIGHWAY
9870	WILDER STATE HIGHWAY
9900	WINHALL STATE HIGHWAY
9990	WEST RUTLAND-RUTLAND (BUS. US-4)
9991	BELLOWS FALLS 501 171 (ROCK-WEST ST.)
9992	BELLOWS FALLS 511 171 (BRIDGE ST.)
9993	BURLINGTON (ALTERNATE US-7)
9995	MONTPELIER (BUS. US-2)
9996	NEWPORT (ALTERNATE US-5)
9997	ST. JOHNSBURY (ALTERNATE US-5)
9998	SO. BURLINGTON-KENNEDY DRIVE

COUNTY/TOWN DESIGNATIONS

1 - ADDISON	2 - BENNINGTON	3 - CALEDONIA	4 - CHITTENDEN	5 - ESSEX	6 - FRANKLIN	7 - GRAND ISLE
0101 ADDISON 0102 BRIDPORT 0103 BRISTOL 0104 CORNWALL 0105 FERRISBURG 0106 GOSHEN 0107 GRANVILLE 0108 HANCOCK 0109 LEICESTER 0110 LINCOLN 0111 MIDDLEBURY 0112 MONKTON 0113 NEW HAVEN 0114 ORWELL 0115 PANTON 0116 RIPTON 0117 SALISBURY 0118 SHOREHAM 0119 STARKSBORO 0120 VERGENNES 0121 WALTHAM 0122 WEYBRIIDGE 0123 WHITING	0201 ARLINGTON 0202 BENNINGTON 0203 DORSET 0204 GLASTENBURY 0205 LANDGROVE 0206 MANCHESTER 0207 PERU 0208 POWNAL 0209 READSBORO 0210 RUPERT 0211 SANDGATE 0212 SEARSBURG 0213 SHAFTSBURY 0214 STAMFORD 0215 SUNDERLAND 0216 WINHALL 0217 WOODFORD	0301 BARNET 0302 BURKE 0303 DANVILLE 0304 GROTON 0305 HARDWICK 0306 KIRBY 0307 LYNDON 0308 NEWARK 0309 PEACHAM 0310 RYEGATE 0311 ST. JOHNSBURY 0312 SHEFFIELD 0313 STANNARD 0314 SUTTON 0315 WALDEN 0316 WATERFORD 0317 WHELOCK	0401 BOLTON 0402 BUEL'S GORE 0403 BURLINGTON 0404 CHARLOTTE 0405 COLCHESTER 0406 ESSEX 0407 HINESBURG 0408 HUNTINGTON 0409 JERICHO 0410 MILTON 0411 RICHMOND 0412 ST. GEORGE 0413 SHELburne 0414 SO. BURLINGTON 0415 UNDERHILL 0416 WESTFORD 0417 WILLISTON 0418 WINDOSKI	0501 AVERILL 0502 AVERY'S GORE 0503 BLOOMFIELD 0504 BRIGHTON 0505 (ISLAND POND) 0506 BRUNSWICK 0507 CONCORD 0508 EAST HAVEN 0509 FERDINAND 0510 GRANBY 0511 GUILDHALL 0512 LEMINGTON 0513 LEWIS 0514 LUNENBURG 0515 MAIDSTONE 0516 NORTON 0517 VICTORY 0518 WARNER'S GRANT 0519 WARREN'S GORE	0601 BAKERSFIELD 0602 BERKSHIRE 0603 ENOSBURG 0604 FAIRFAX 0605 FAIRFIELD 0606 FLETCHER 0607 FRANKLIN 0608 GEORGIA 0609 HIGHGATE 0610 MONTGOMERY 0611 RICHFORD 0612 ST. ALBANS CITY 0613 ST. ALBANS TOWN 0614 SHELTON 0615 SWANTON	0701 ALBURG 0702 GRAND ISLE 0703 ISLE LA MOTTE 0704 NORTH HERO 0705 SOUTH HERO
8 - LAMOILLE	9 - ORANGE	10 - ORLEANS	11 - RUTLAND	12 - WASHINGTON	13 - WINDHAM	14 - WINDSOR
0801 BELVIDERE 0802 CAMBRIDGE 0803 EDEN 0804 ELMORE 0805 HYDE PARK 0806 JOHNSON 0807 MORRISTOWN (MORRISVILLE) 0808 STOWE 0809 WATERVILLE 0810 WOLCOTT	0901 BRADFORD 0902 BRAintree 0903 BROOKFIELD 0904 CHELSEA 0905 CORINTH 0906 FAIRLEE 0907 NEWBURY 0908 ORANGE 0909 RANDOLPH 0910 STRAFFORD 0911 THETFORD 0912 TOPSHAM 0913 TUNBRIDGE 0914 VERSHIRE 0915 WASHINGTON 0916 WEST FAIRLEE 0917 WILLIAMSTOWN	1001 ALBANY 1002 BARTON (ORLEANS VILLAGE) 1003 BROWNINGTON 1004 CHARLESTON 1005 COVENTRY 1006 CRAFTSBURY 1007 DERBY 1008 CLOYER 1009 GREENSBORO 1010 HOLLAND 1011 IRASBURG 1012 JAY 1013 LOWELL 1014 MORGAN 1015 NEWPORT CITY 1016 NEWPORT TOWN 1017 TROY 1018 WESTFIELD 1019 WESTMORE	1101 BENSON 1102 BRANDON 1103 CASTLETON 1104 CHITTENDEN 1105 CLARENDON 1106 GANBY 1107 FAIR HAVEN 1108 HUBBARDTON 1109 IRA 1110 MEDFORD 1111 MIDDLETON 1112 MT. HOLLY 1113 MT. TABOR 1114 PAWLET 1115 PITTSFIELD 1116 PITTSFORD 1117 POULTNEY 1118 PROCTOR 1119 RUTLAND CITY 1120 RUTLAND TOWN 1121 SHERBURN 1122 SHREWSBURY 1123 SUDBURY 1124 TOWNSHIRE 1125 WALLINGFORD 1126 WELLS 1127 WEST HAVEN 1128 WEST RUTLAND	1201 BARRE CITY 1202 BARRE TOWN 1203 BURLINGTON 1204 CABOT 1205 CALAIS 1206 DUXBURY 1207 E. MONTPELIER 1208 FAYSTON 1209 MARSHFIELD 1210 MIDDLESEX 1211 MONTPELIER 1212 MORETOWN 1213 NORTHFIELD 1214 PLAINFIELD 1215 ROXBURY 1216 WAITSFIELD 1217 WARREN 1218 WATERBURY 1219 WOODBURY 1220 WORCESTER	1301 ATHENS 1302 BRATTLEBORO 1303 BROOKLINE 1304 DOVER 1305 DUMMERSTON 1306 GRAFTON 1307 GUILFORD 1308 HALIFAX 1309 JAMAICA 1310 LONDONDERRY 1311 MARLBORO 1312 NEWFANE 1313 PUTNEY 1314 ROCKINGHAM (SAXTONS RIVER) (BELLOWS FALLS) 1315 SOMERSET 1316 STRATTON 1317 TOWNSEND 1318 VERNON 1319 WARDSBORO 1320 WESTMINSTER 1321 WHITINGHAM 1322 WILMINGTON 1323 WINDHAM	1401 ANDOVER 1402 BALTIMORE 1403 BARNARD 1404 BETHEL 1405 BRIDGEWATER 1406 CAVENTISH 1407 CHESTER 1408 HARTFORD (WHITE RIVER JUNCTION) 1409 HARTLAND 1410 LUDLOW 1411 NORWICH 1412 PLYMOUTH 1413 FOWRETT 1414 READING 1415 ROCHESTER 1416 ROYALTON 1417 SHARON 1418 SPRINGFIELD 1419 STOCKBRIDGE 1420 WEATHERSFIELD 1421 WESTON 1422 WEST WINDSOR 1423 WINDSOR 1424 WOODSTOCK

PAYMENT:

MILEMARKERS SHALL BE PAID AS TRAFFIC SIGNS, TYPE "A", AND POSTS PAID AS FLANGED CHANNEL STEEL SIGN POSTS.

MATERIAL:

THE SIGN BASE MATERIAL SHALL BE 0.04" FLAT SHEET ALUMINUM.

COLORS:

THE SIGN SHALL HAVE A REFLECTORIZED WHITE TEXT ON A REFLECTORIZED GREEN BACKGROUND. THE COLORS SHALL CONFORM WITH THOSE FOUND IN STANDARD COLOR TOLERANCE CHARTS AS APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

LETTERING:

LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AS PRINTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

POSTS:

FLANGED CHANNEL STEEL 2" x 1/2". POSTS SHALL BE USED WHEN THE POST LENGTH EXCEEDS 7 FEET. FOR LENGTHS OF 7 FEET OR LESS, A 1.12" x 1/2" STEEL SIGN POST SHALL BE USED.

OTHER STDS. E-160
REQUIRED:

REVISIONS AND CORRECTIONS

OCT. 20, 1988 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - MINOR NOTE REVISIONS

APPROVED

Simon D. McArthur
DIRECTOR OF ENGINEERING

Paul A. Ross
TRAFFIC AND SAFETY ENGINEER

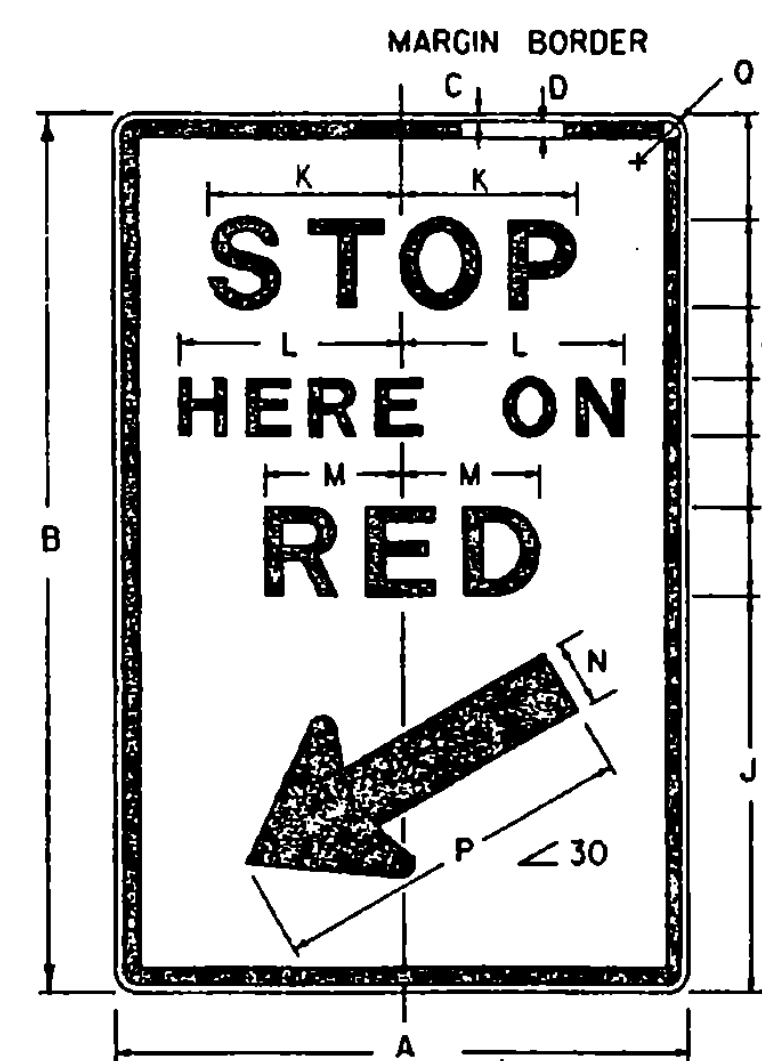
MILEMARKER DETAILS STATE AND TOWN HIGHWAYS

/traf/stc/std138.dgn : stc138.1



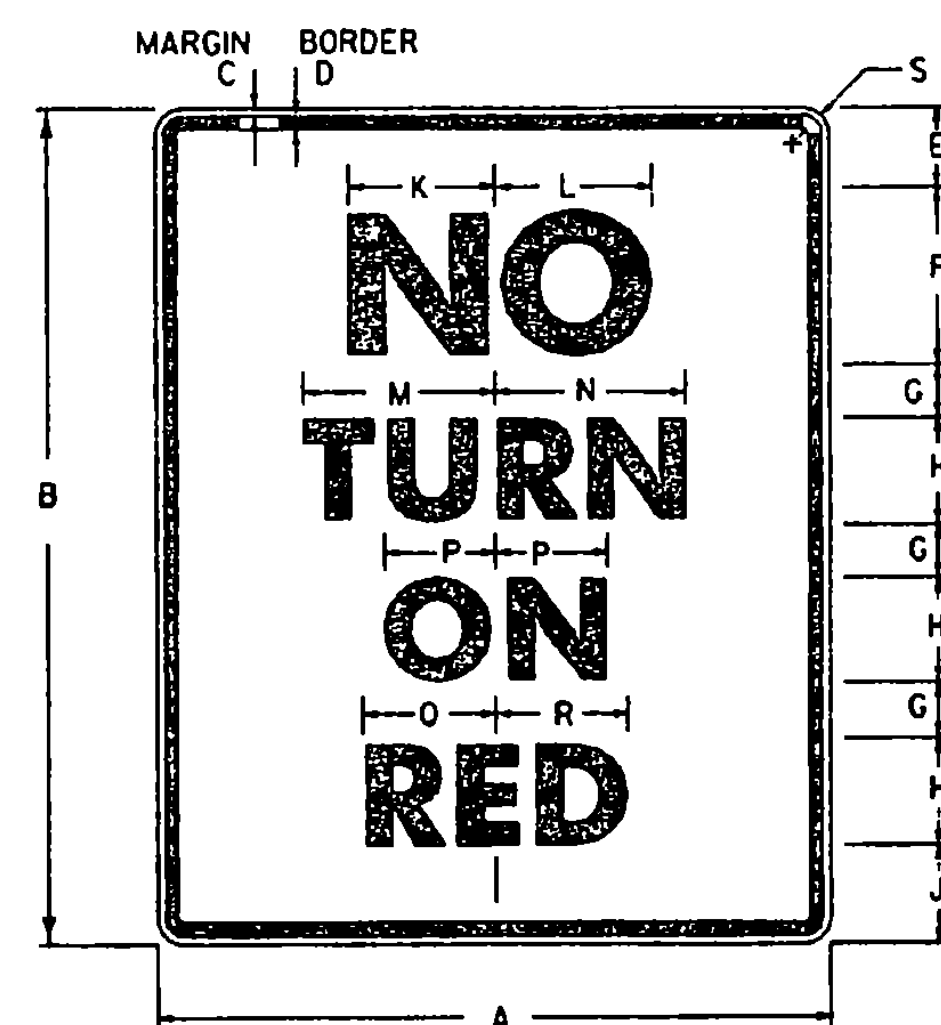
STANDARD E-138

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.



R10-6

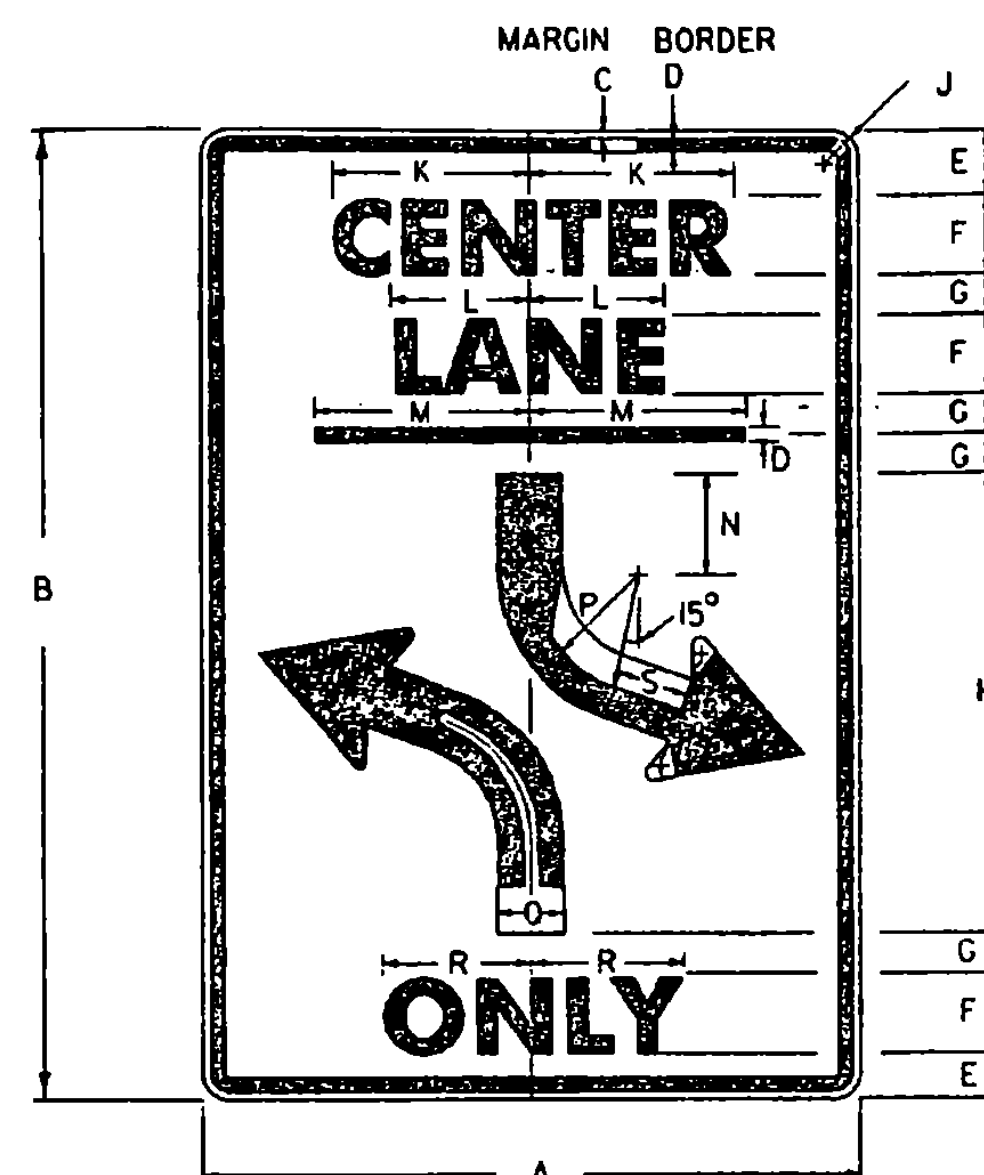
SIGN	A	B	C	D	E	F	G	H
STD.	24	36	3/8	3/8	4	5D	2 1/2	3D
SPECIAL	36	48	3/8	3/8	6	6D	4	4D
	J	K	L	M	N	P	O	
STD.	14	8 1/2	9 1/2	5 1/8	2 3/8	14 3/8	1 1/2	
SPECIAL	18	9 1/2	12 1/2	7 1/8	2 3/4	16	2 1/4	



POST MOUNTING

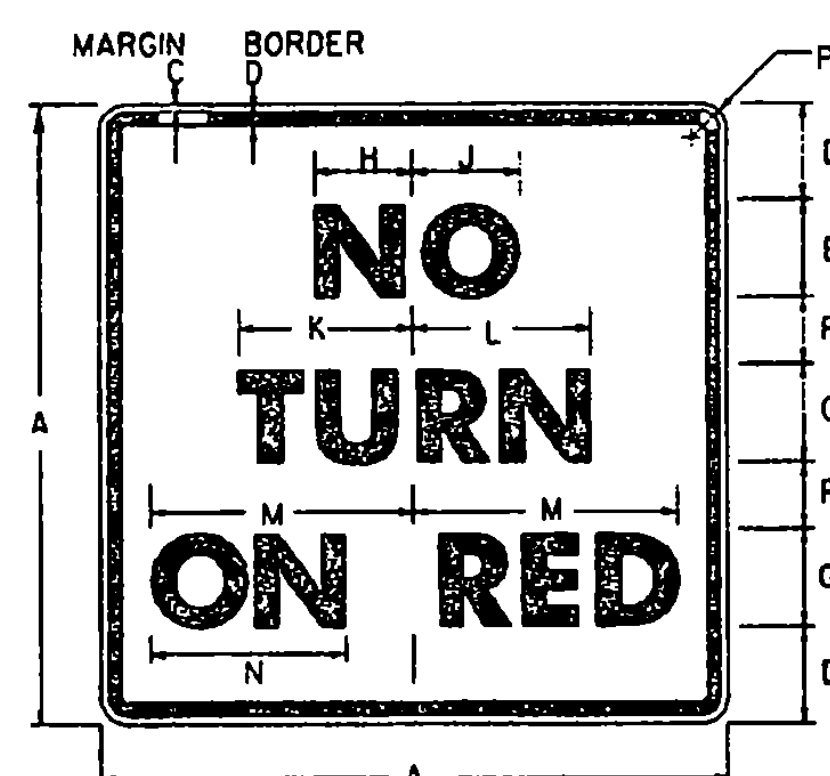
R10-11A

SIGN	A	B	C	D	E	F	G	H	J	K
STD.	24	30	3/8	3/8	3 1/4	5E	2 1/4	4D	3	4 1/8
SPECIAL	36	48	3/8	3/8	6	8E	3 1/2	6D	5 1/2	7 3/4
	L	M	N	P	O	R	S			
STD.	5 3/8	6 3/8	6 1/2	3 1/2	4 3/8	4 3/8	1 1/2			
SPECIAL	8 1/4	10	9 3/4	5 1/4	6 3/8	7 3/8	2 1/4			



R3-9B

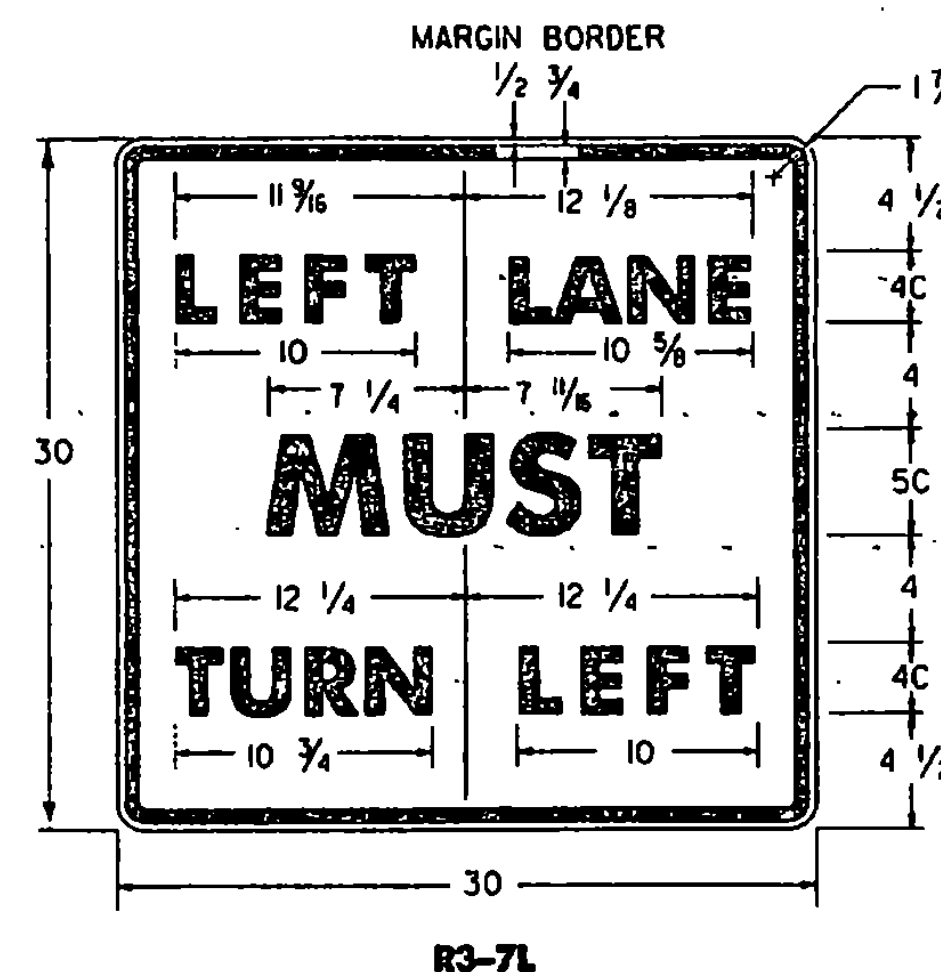
SIGN	A	B	C	D	E	F	G	H	J	K
STD.	24	36	3/8	3/8	2 1/2	3E	1 1/2	16	1 1/2	8 1/8
SPECIAL	36	48	3/8	3/8	3 1/2	5E	1 1/2	20	2 1/4	14 1/8
	L	M	N	P	Q	R	S			
STD.	5 3/4	8	2 1/2	6	2	5 3/8	1 1/2			
SPECIAL	9 1/2	12	3	8	3	9 3/8	2			



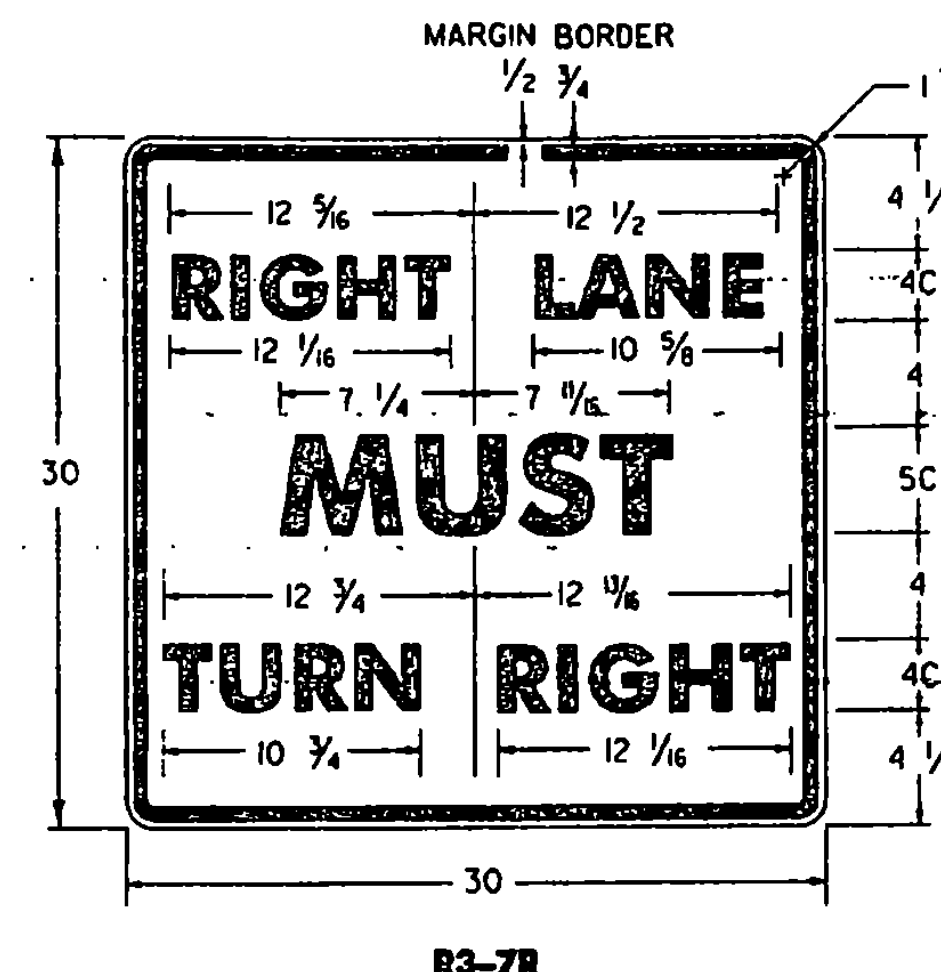
OVERHEAD MOUNTING

R10-11B

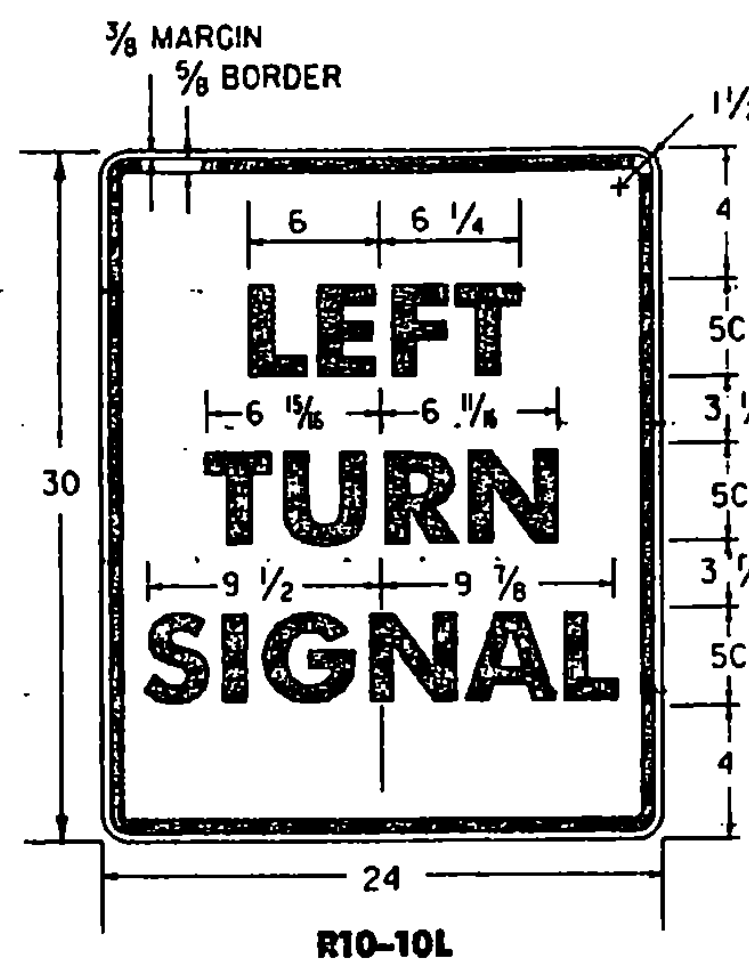
SIGN	A	B	C	D	E	F	G	H	J	K	L	M	N	P
MIN.	18	3/8	3/8	2 3/4	3E	1 3/4	3D	2 3/8	3 1/8	5	4 3/8	7 3/8	5 1/4	1 1/2
STD.	24	3/8	3/8	3 1/2	4E	2 1/2	4D	3 3/8	4 1/8	6 3/8	6 1/2	9 1/2	6 1/2	1 1/2
SPECIAL	30	1/2	3/4	4 1/2	5E	3	5D	4 3/8	5 3/8	8 1/4	8 1/8	11 3/8	7 3/4	1 3/8



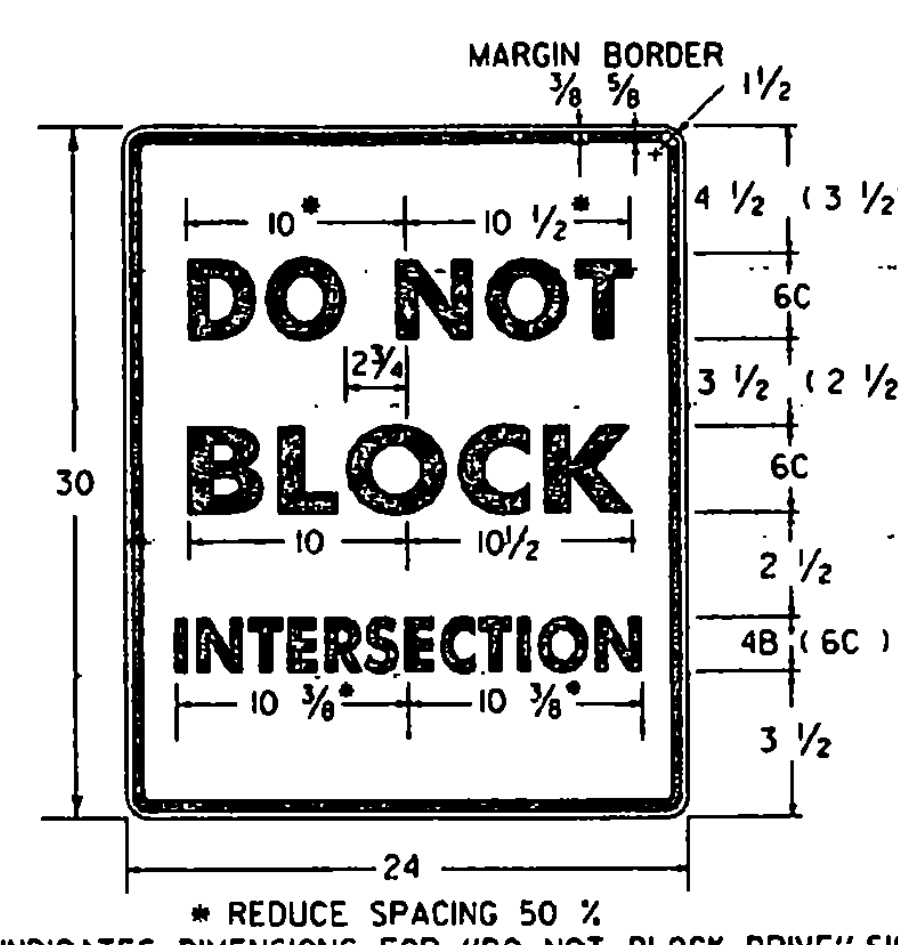
R3-7L



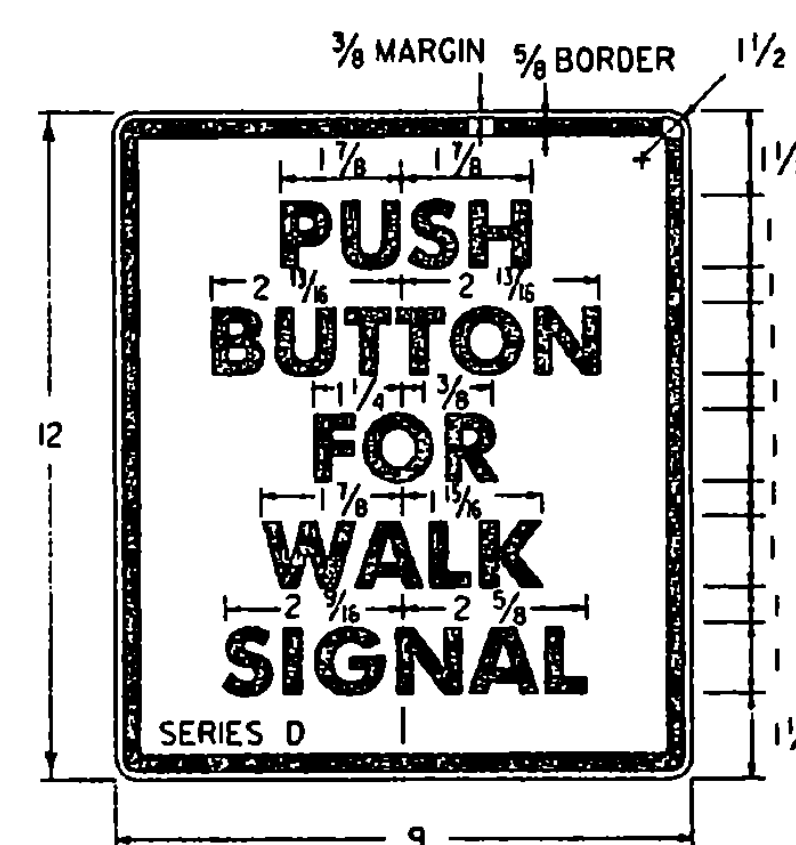
R3-7R



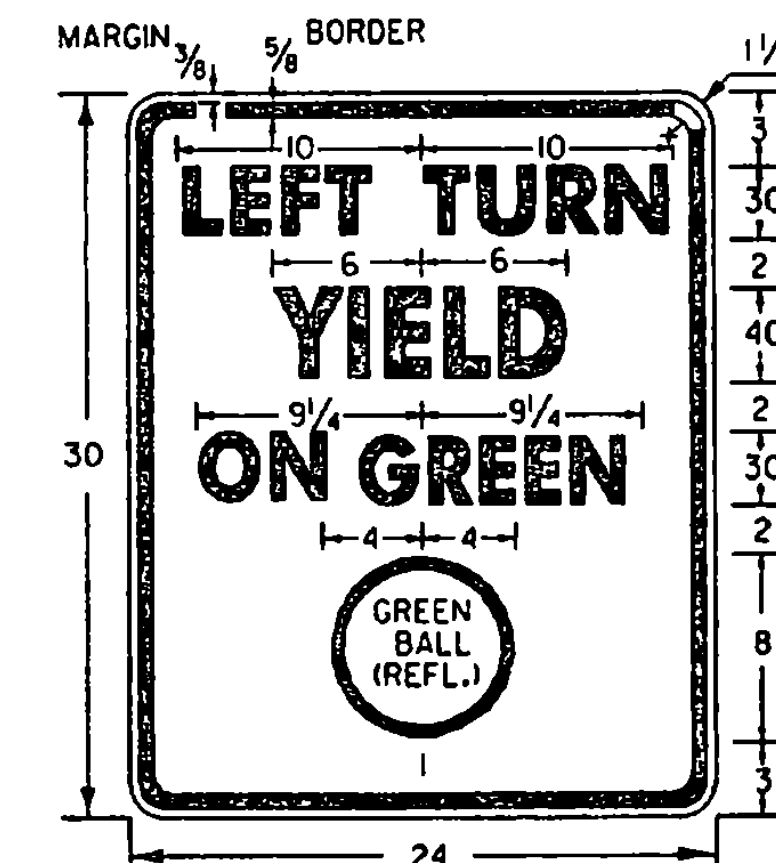
R10-10L



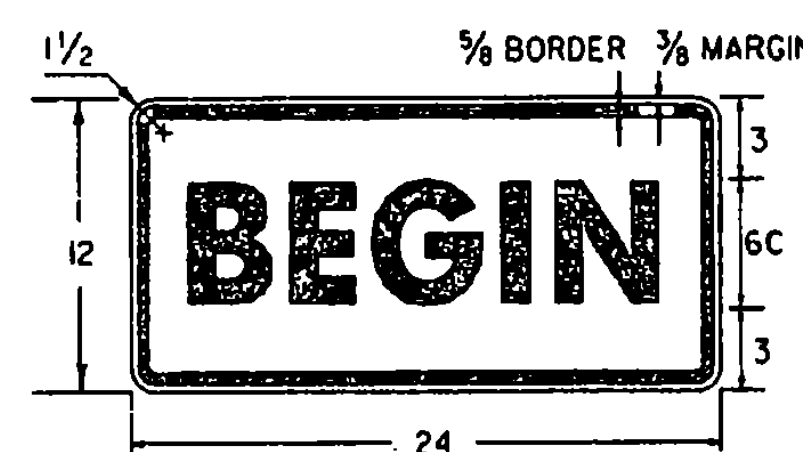
R10-7



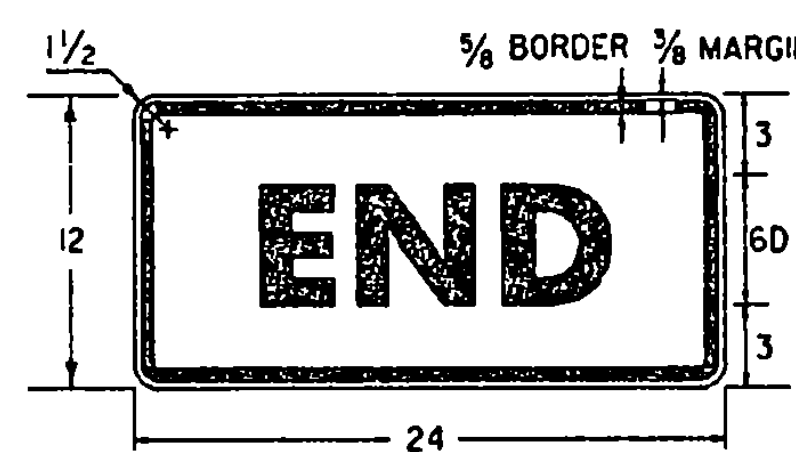
R10-4



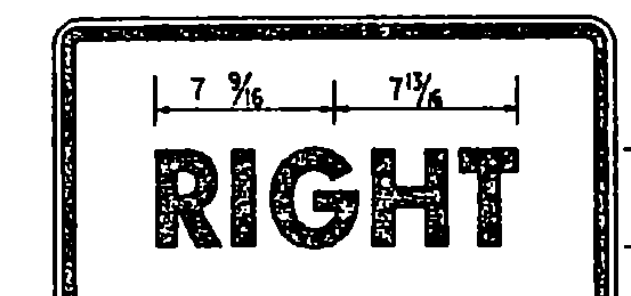
R10-12



M4-11



M4-6



R10-10R



VR-656

GENERAL:

1. ALL DIMENSIONS IN INCHES.
2. SEE STANDARD E-144 FOR ARROWHEAD DETAILS.

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND, UNLESS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

	24" x 12"	24" x 24"	24" x 30"	24" x 36"	36" x 48"
FLAT SHEET ALUMINUM	0.060"	0.080"	0.100"	0.100"	0.100"
HIGH DENSITY OVERLAID PLYWOOD	1/2"	1/2"	1/2"	1/2"	1/2"
GALVANIZED FLAT SHEET STEEL	18 GAGE	16 GAGE	16 GAGE	16 GAGE	14 GAGE

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE AASHTO TYPE II OR III WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. WHEN MOUNTED OVERHEAD, ALL SIGNS SHALL HAVE ENCAPSULATED LENS REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. HAND PAINTING MUST BE COMPARABLE IN QUALITY TO THE RESULTS OBTAINED BY SILK SCREENING.

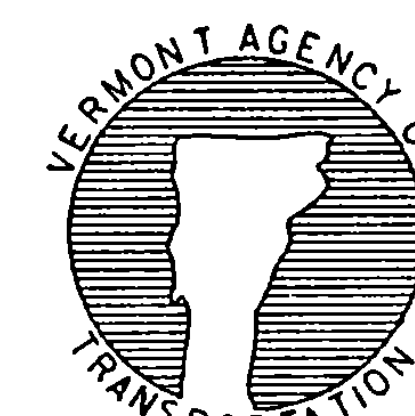
SPECIFICATIONS

REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

TEXT DESIGN:

LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND DESIGNS PRESCRIBED IN THE STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

OTHER STDS.: E-144
REQUIRED



STANDARD
E-140

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
SEPT. 20, 1995 - ADDED SIGN ID NUMBERS, MINOR NOTE
REVISIONS, SHEET REALIGNMENT
AUG. 30, 1996 - MADE ERROR CORRECTIONS TO
SIGN DETAILS R10-6 & R10-11B

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION,
FHWA FINAL APPROVAL PENDING.

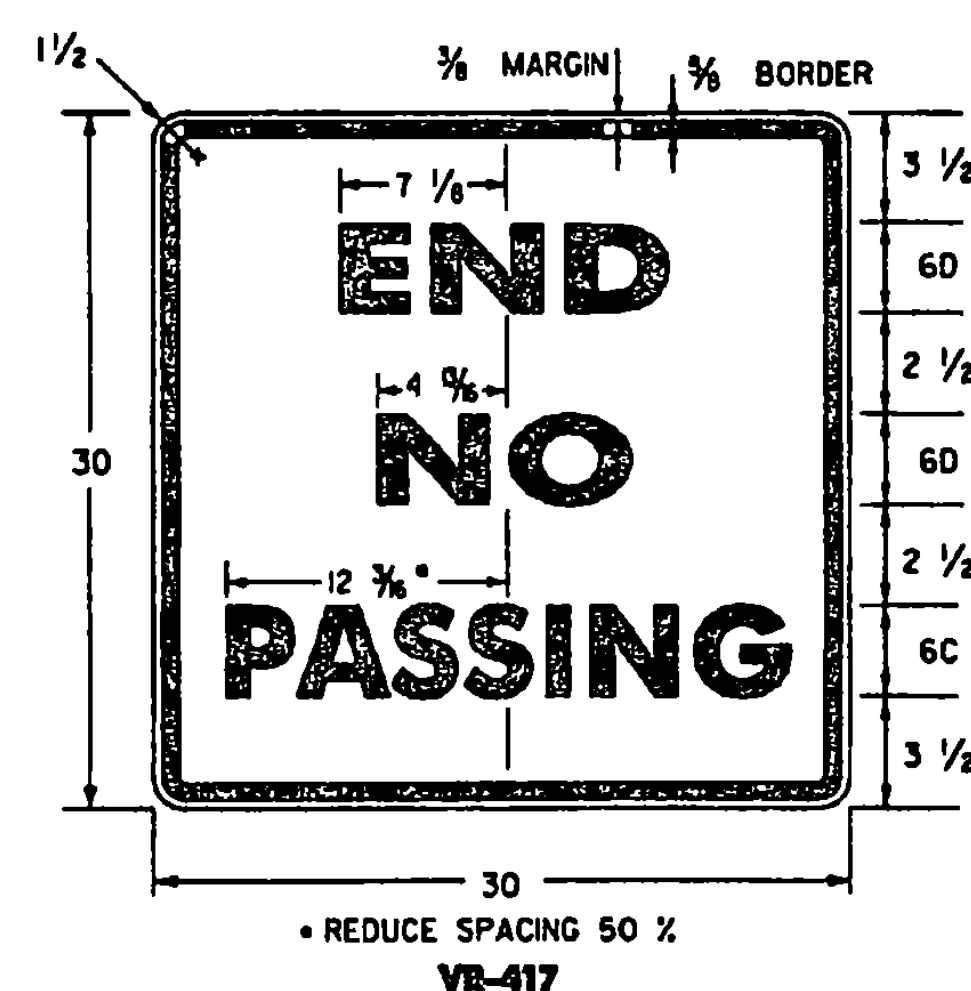
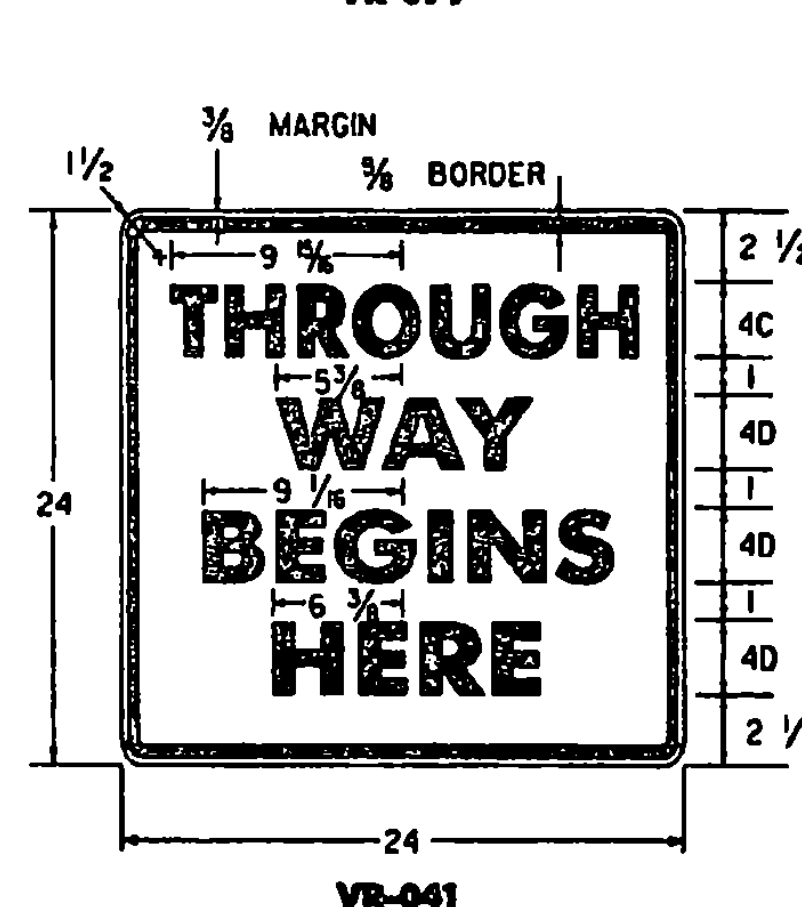
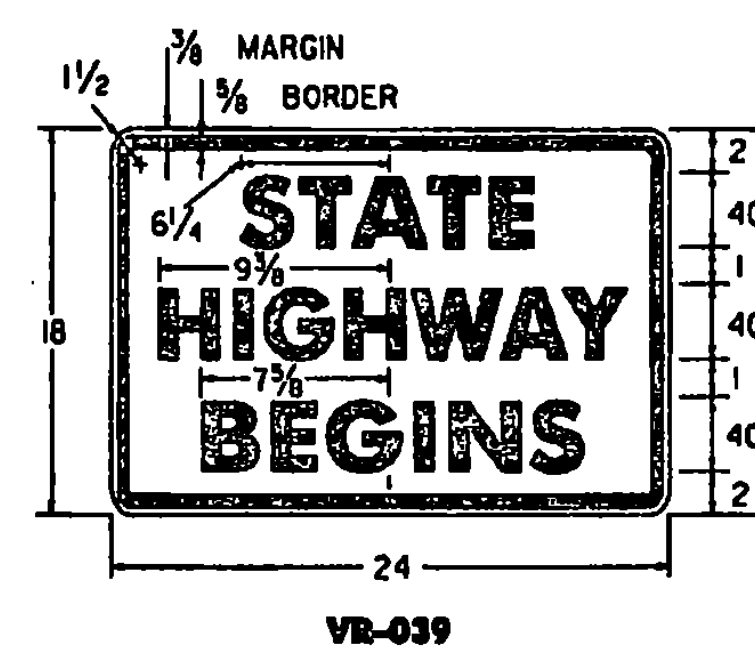
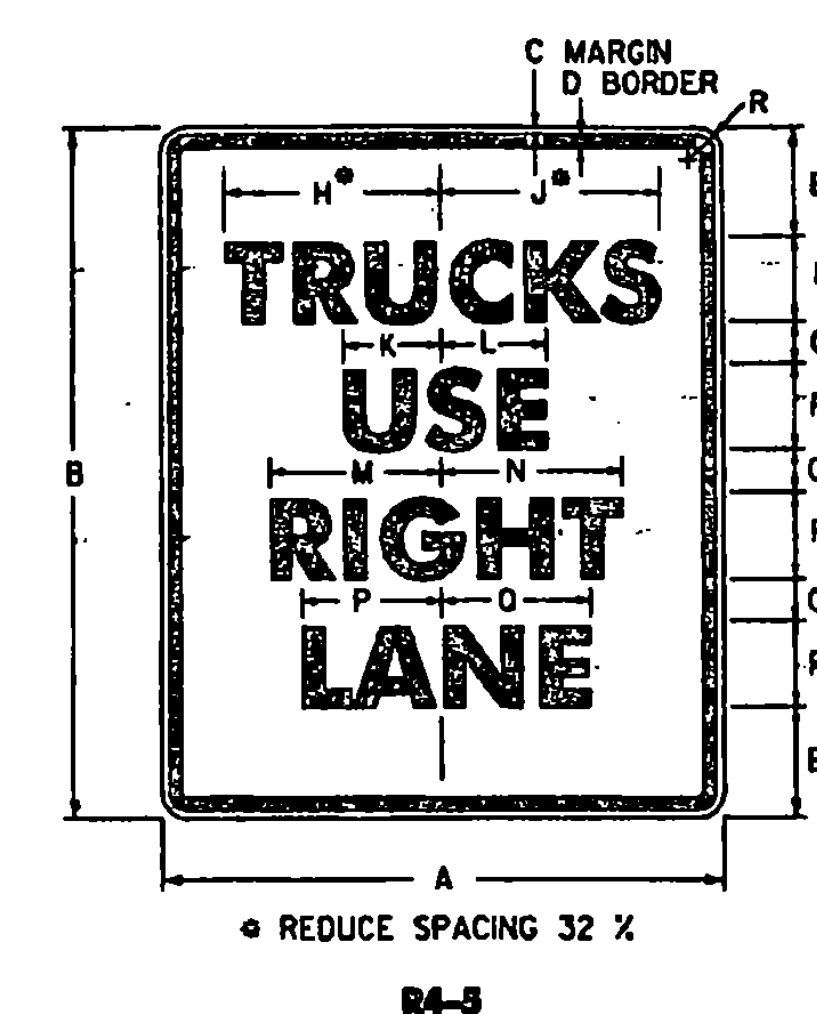
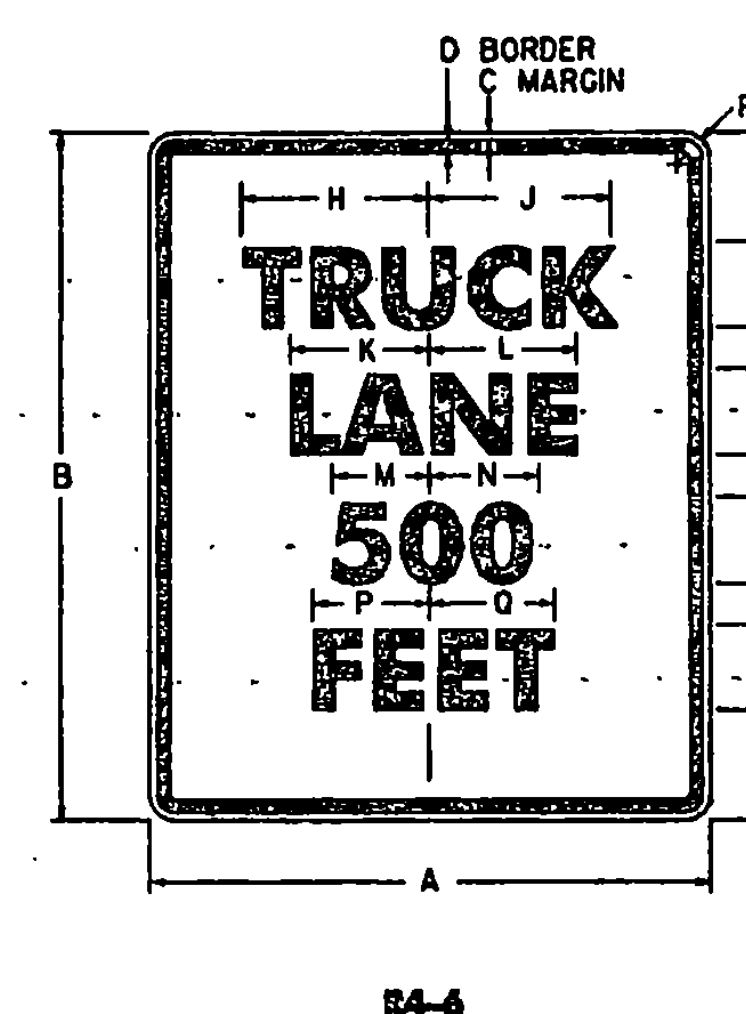
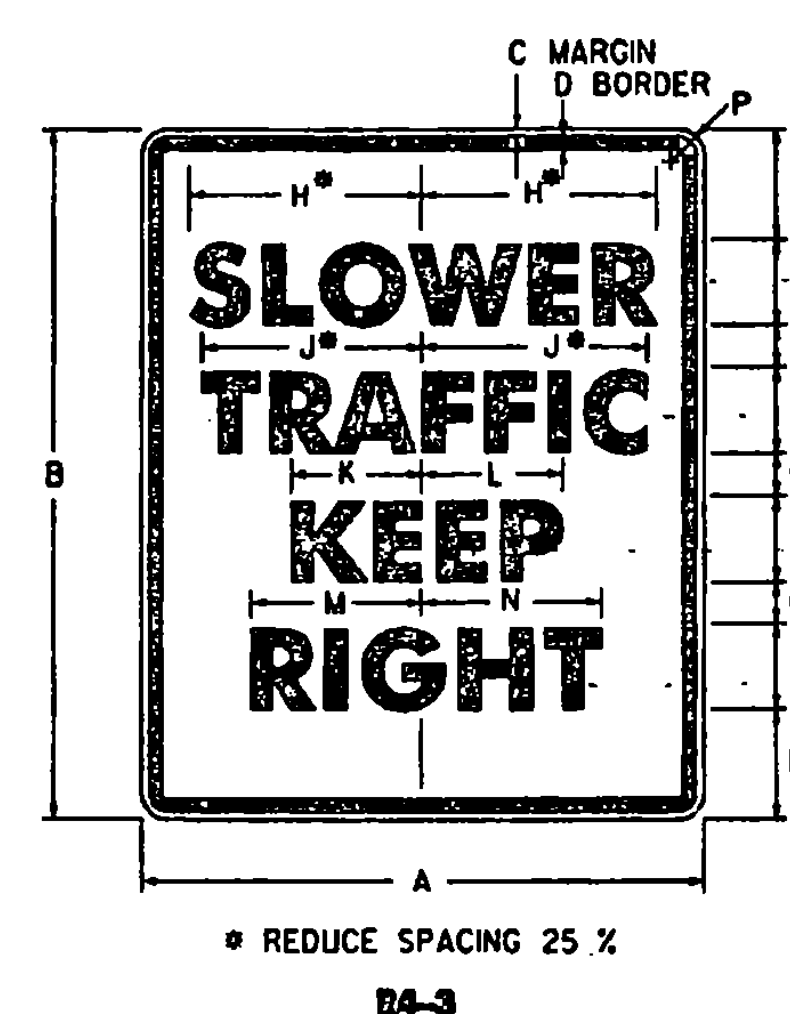
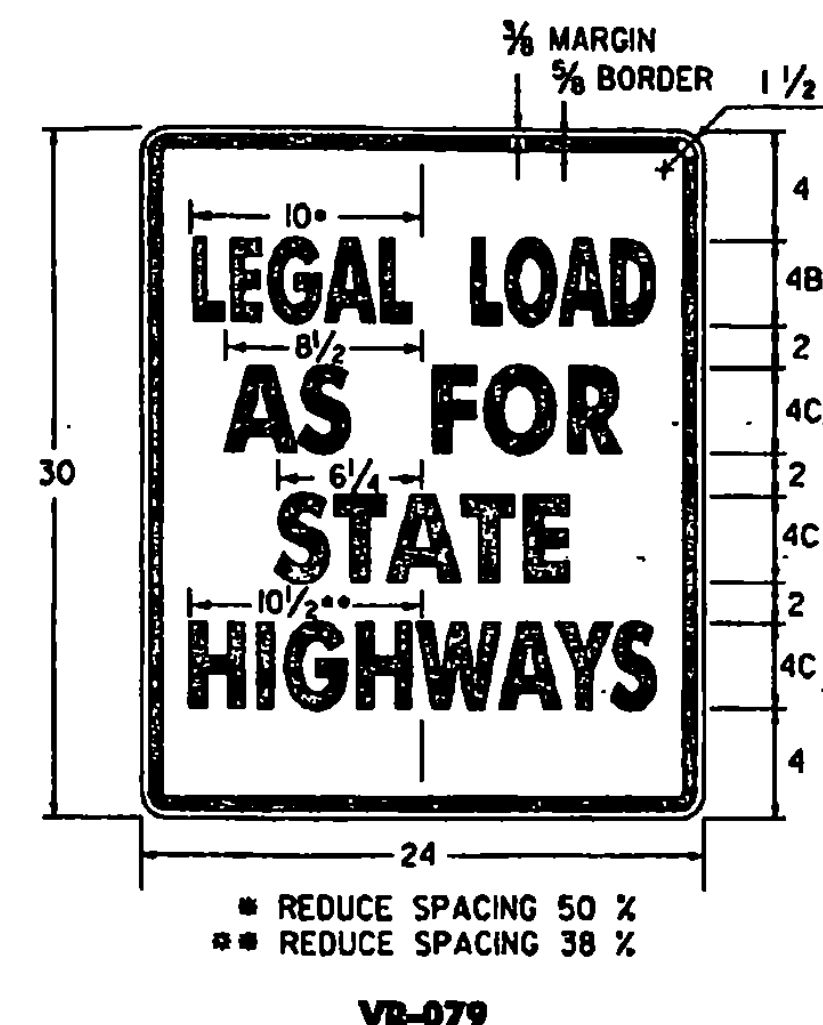
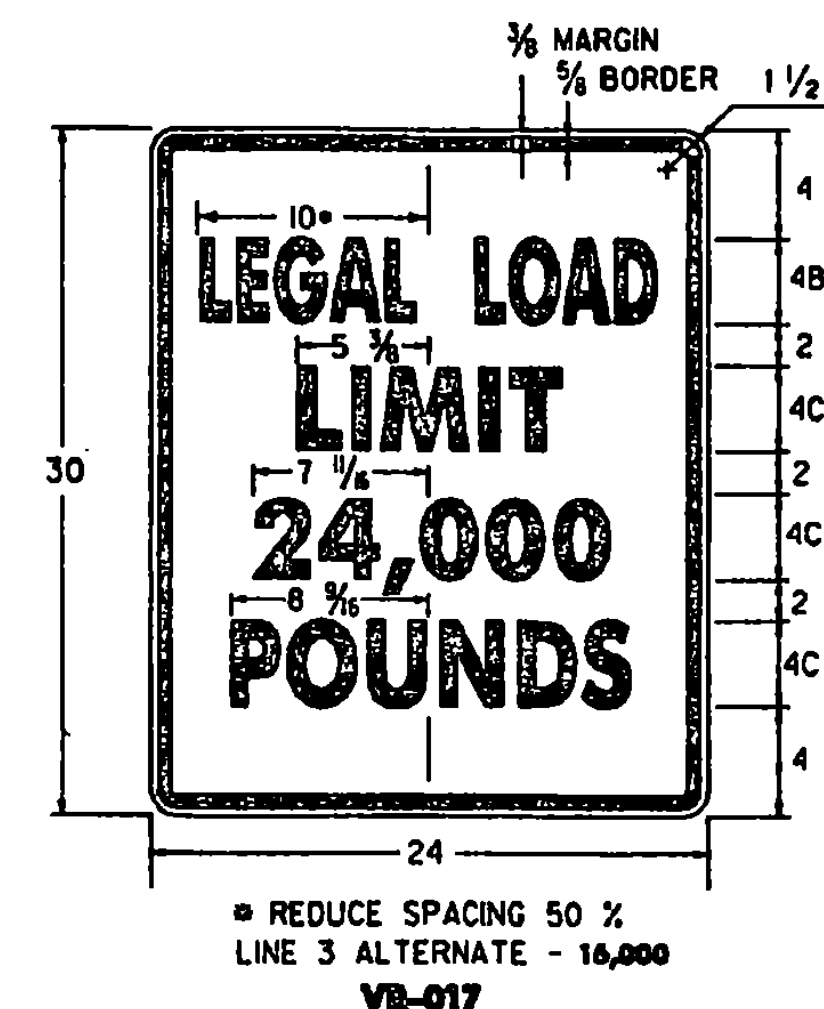
APPROVED

John A. Ross
DIRECTOR OF ENGINEERING

Donna A. Ross
TRAFFIC AND SAFETY ENGINEER

REGULATORY SIGN DETAILS

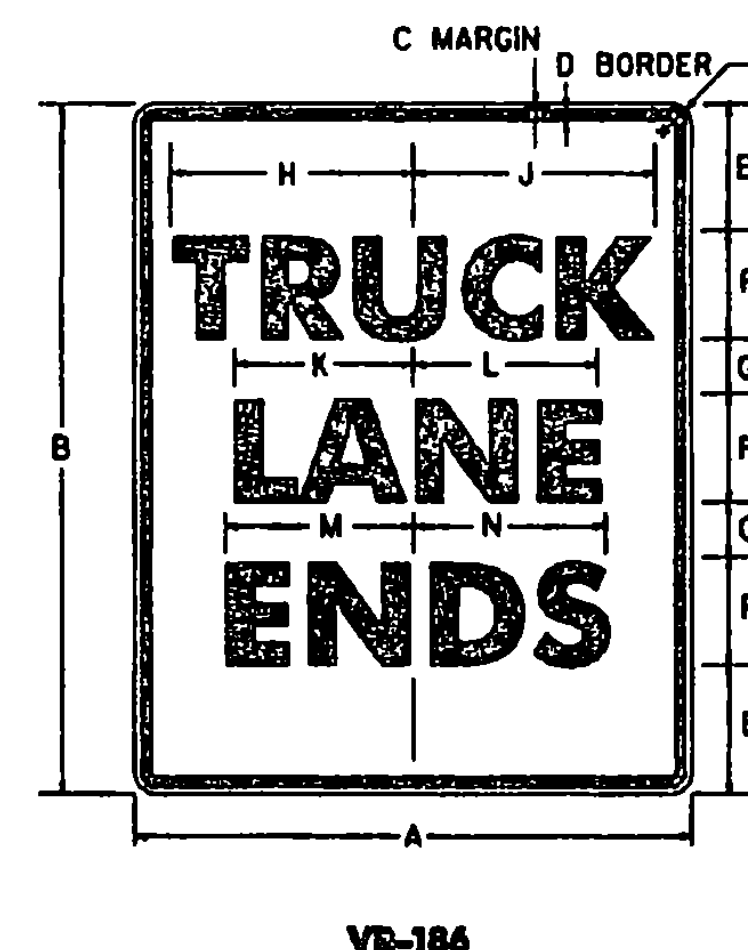
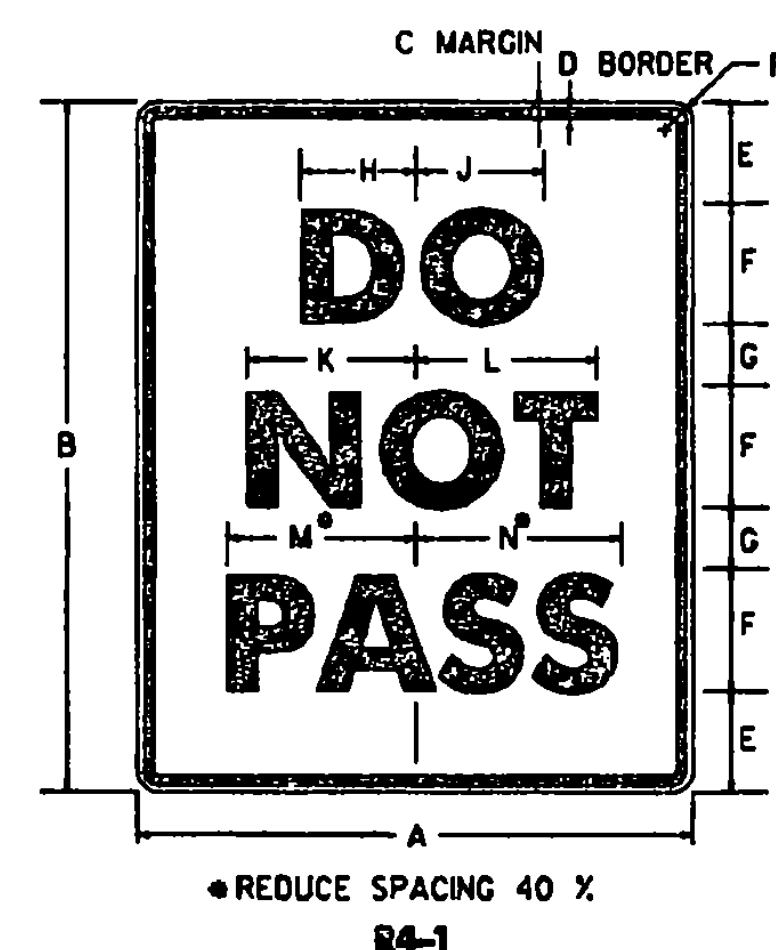
/traf/std/stdel40.dgn : stdel40.1



SIGN	A	B	C	D	E	F	G	H	J	K	L	M	N	P
STD.	24	30	3/8	5/8	3 3/4	4D	2 1/4	9 3/4	10	6	6 3/8	7 1/8	7 5/8	1 1/2
EXPWY.	36	48	3/8	7/8	6	6D	4	14 3/8	15	9	9 3/8	10 1/8	11 3/8	2 1/4
FWY.	48	60	3/4	1 1/4	7 1/4	8D	4 1/2	19 1/2	20	12	13 3/8	14 1/4	15 1/4	3

SIGN	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
STD.	24	30	3/8	5/8	3 3/4	4E	2 1/4	9 3/8	9 1/8	7 3/8	7 1/8	5 1/8	5 3/8	6 7/8	7 1/8	1 1/2
EXPWY.	36	48	3/8	7/8	6	6E	4	14 3/4	14 1/2	11 3/8	11 1/2	8 1/2	8 3/4	10 3/8	10 3/8	2 1/4
FWY.	48	60	3/4	1 1/4	7 1/4	8E	4 1/2	19 3/8	19 3/8	15 3/8	15 3/8	11 3/8	11 3/8	13 3/4	14 1/8	3

SIGN	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O	R
STD.	24	30	3/8	5/8	3 3/4	4D	2 1/4	9 3/8	9 3/8	4 3/4	5	7 1/8	7 5/8	6 1/4	6 5/8	1 1/2
EXPWY.	36	48	3/8	7/8	6	6D	4	14 3/8	13 3/8	7 1/8	7 1/2	10 1/8	11 3/8	9 3/8	9 3/8	2 1/4
FWY.	48	60	3/4	1 1/4	7 1/4	8D	4 1/2	19 3/8	18 3/8	9 1/2	10	14 1/4	15 1/4	12 1/2	13 1/4	3



SIGN	A	B	C	D	E	F	G	H	J	K	L	M	N	P
STD.	24	30	3/8	5/8	3 3/4	6D	2 1/2	4 1/8	5	7 1/8	7 1/8	9 3/8	9 3/8	1 1/2
EXPWY.	36	48	3/8	7/8	7	8D	5	6 1/4	6 3/4	9 1/2	9 3/4	12 1/2	13	2 1/4
FWY.	48	60	3/4	1 1/4	8	10D	7	13 3/4	8 3/8	11 3/8	12 1/4	15 3/8	16 1/4	3

SIGN	A	B	C	D	E	F	G	H	J	K	L	M	N	P
STD.	24	30	3/8	5/8	3 3/4	6C	2 1/2	10 1/4	10 3/8	7 3/8	7 3/8	7 3/8	8	1 1/2
EXPWY.	36	48	3/8	7/8	7	8C	5	13 3/8	13 3/8	10 3/8	10 3/8	10 3/8	10 3/8	2 1/4
FWY.	48	60	3/4	1 1/4	8	10D	7	20 3/8	20 3/8	15 3/8	15 3/8	16 1/8	16 1/8	3

GENERAL:

1. ALL DIMENSIONS IN INCHES.

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND, UNLESS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

24" X 18"	36" X 48"
24" X 24"	48" X 60"
24" X 30"	
30" X 30"	
0.080"	0.100"
1/2"	5/8"
16 GAGE	14 GAGE

FLAT SHEET ALUMINUM
HIGH DENSITY OVERLAID PLYWOOD
GALVANIZED FLAT SHEET STEEL

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE AASHTO TYPE II OR III WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. HAND PAINTING MUST BE COMPARABLE IN QUALITY TO THE RESULTS OBTAINED BY SILK SCREENING.

SPECIFICATIONS:

REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

TEXT DESIGN:

LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS AND DESIGNS PRESCRIBED IN THE STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
SEPT. 20, 1995 - ADDED AND DELETED SIGN DETAIL.
ADDED SIGN ID NUMBERS, MINOR NOTE REVISIONS.

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

APPROVED

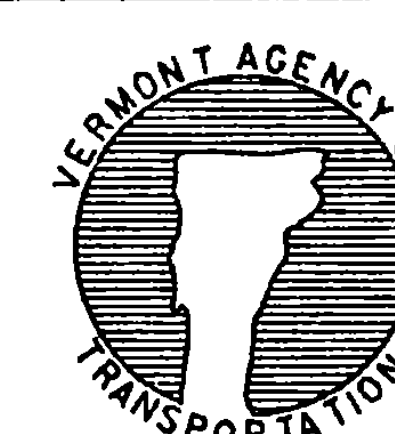
Stephen D. McAllen
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

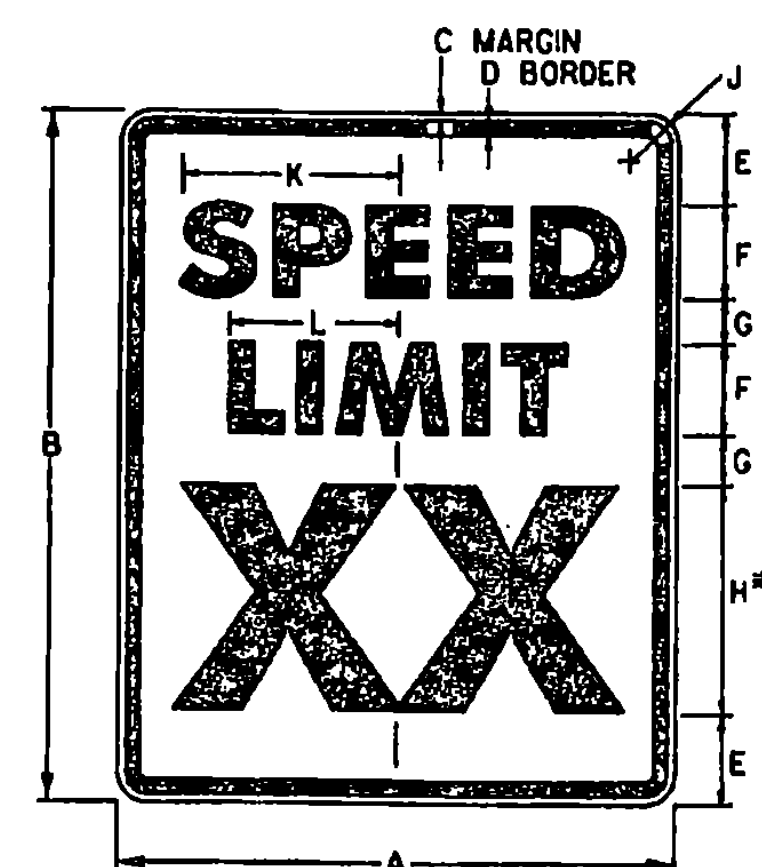
REGULATORY SIGN DETAILS

/trcf/std/stdel4l.dgn : stdel4l.l

OTHER STDS.: NONE
REQUIRED

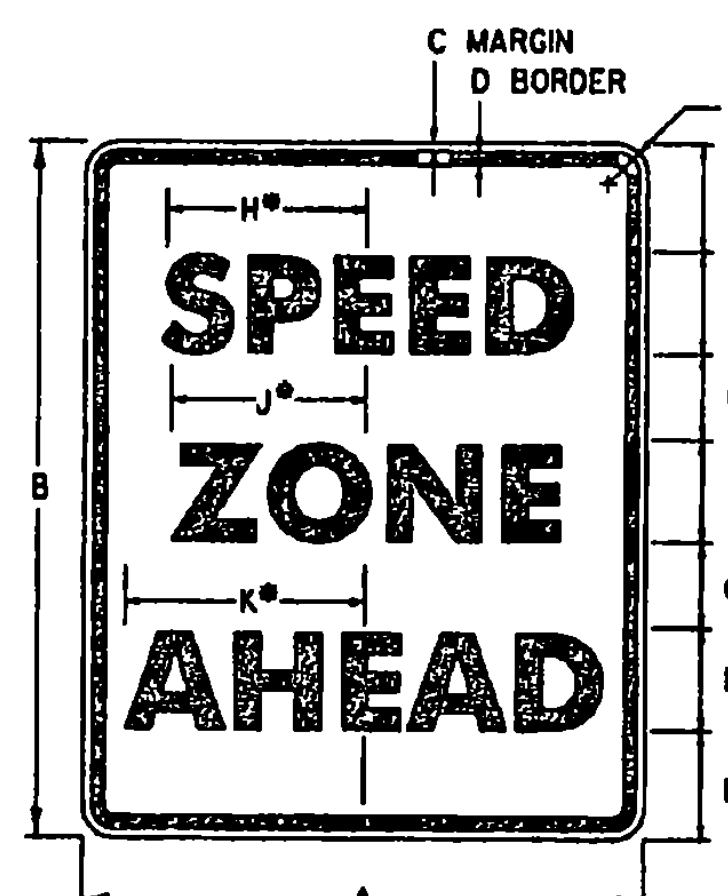


STANDARD E-141



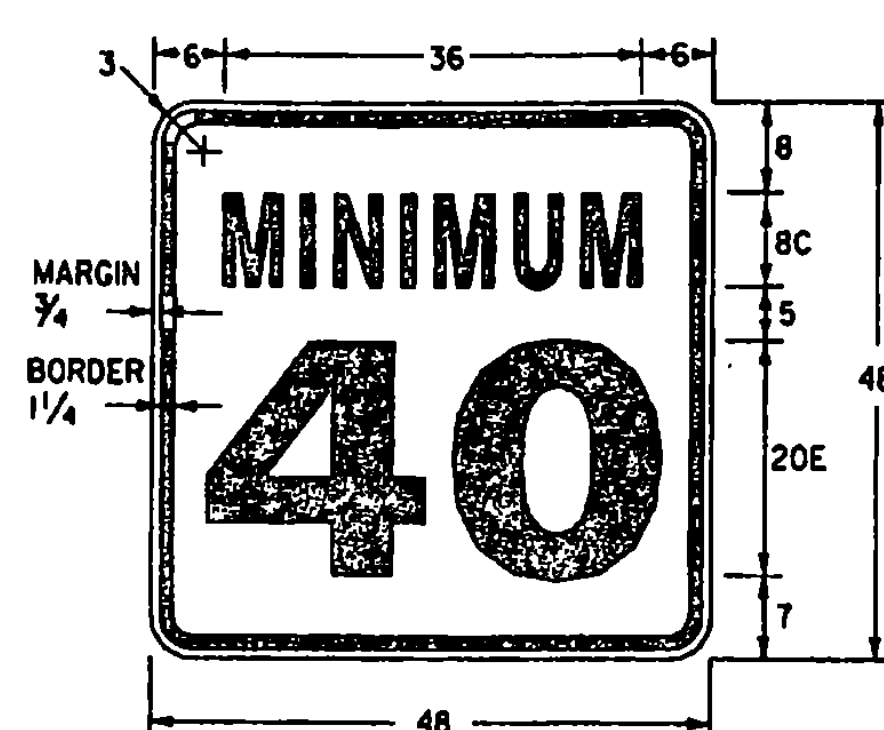
* OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE.
R2-1

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
MIN.	18	24	3/8	3/8	3	3E	2	8E	1/2	7 1/2	5 1/2	
STD.	24	30	3/8	3/8	4	4E	2	10E	1/2	9 3/8	7 1/8	
EXPWY.	36	48	3/8	3/8	6	6E	5	14E	2 1/4	14 1/2	11	
FWY.	48	60	3/4	1/4	8	8E	4	20E	3	19 1/8	14 3/8	

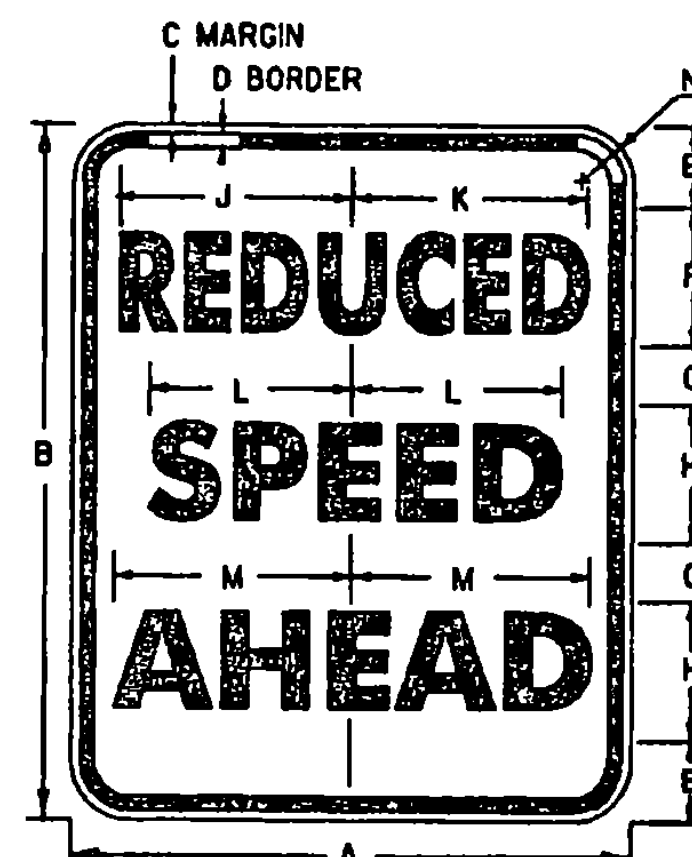
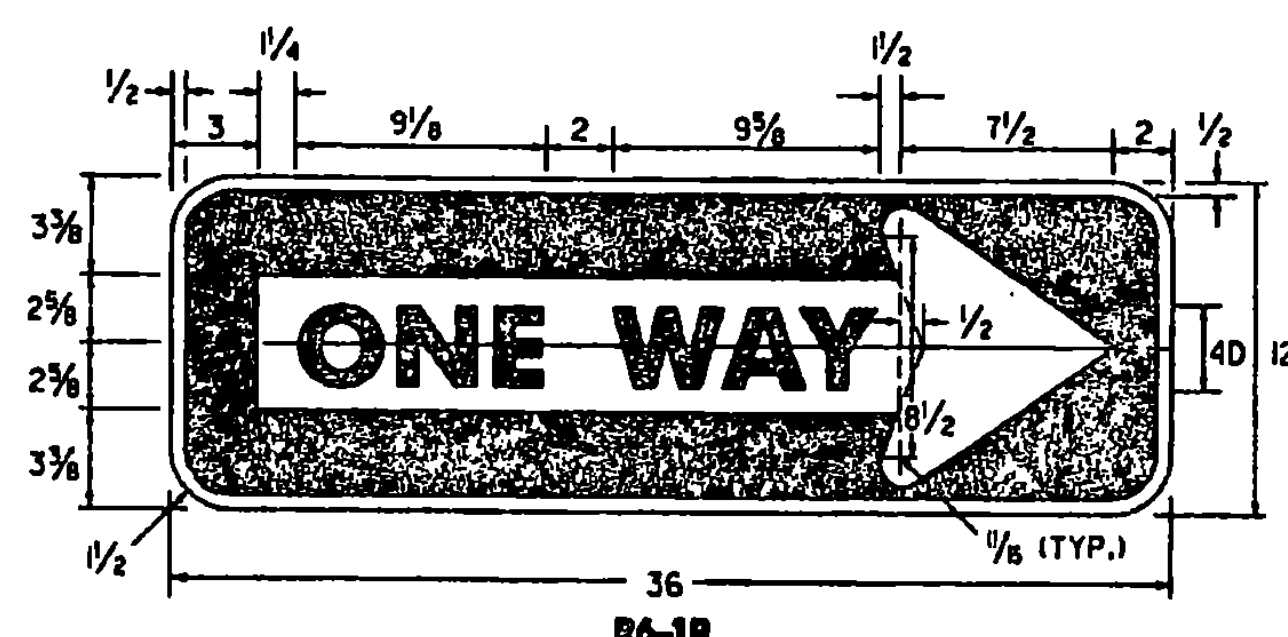


* FOR STD SIZE, REDUCE SPACING 40 %
R2-3C

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
MIN.	18	24	3/8	3/8	3 1/2	4C	2 1/2	6 3/8	5 1/2	7	1 1/2	
STD.	24	30	3/8	3/8	3 1/2	6C	2 1/2	9 3/8	7 1/8	9 1/4	1 1/2	
EXPWY.	36	48	3/8	3/8	7	8C	5	13 3/8	11 1/8	14	2 1/4	
FWY.	48	60	3/4	1/4	9	10C	6	17	13 3/8	17 1/2	3	

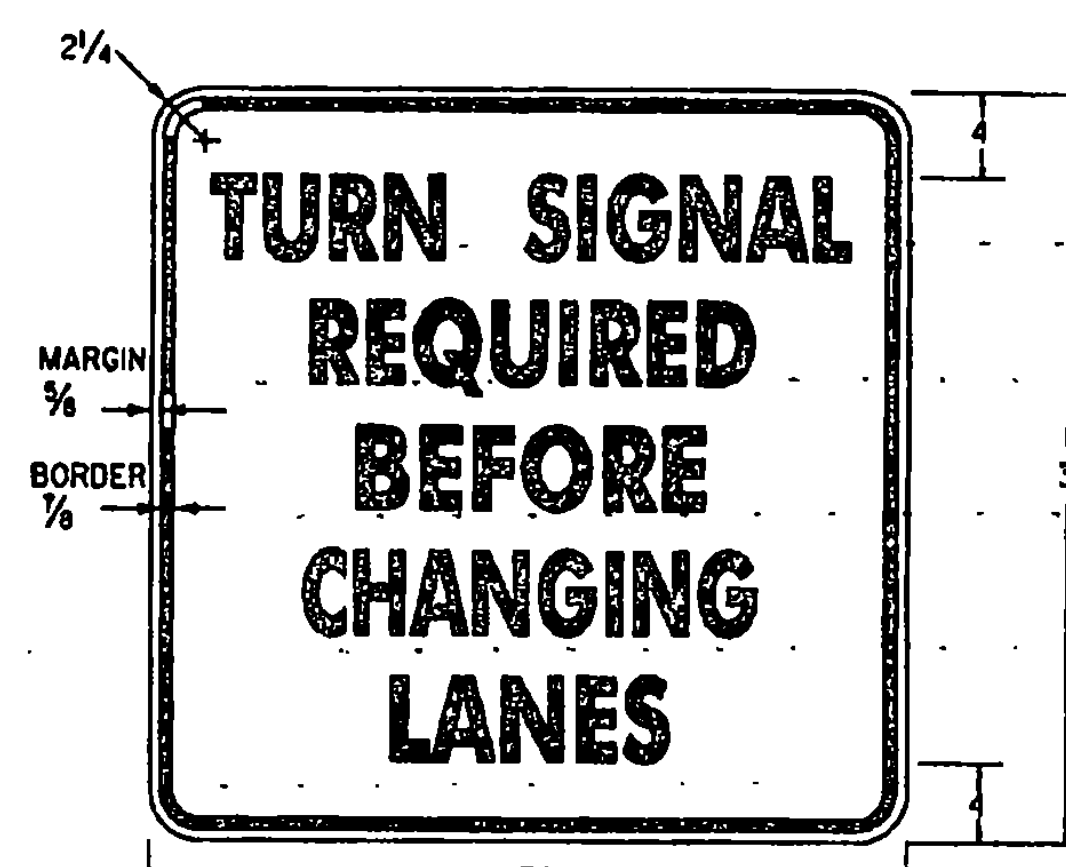


TO BE USED WITH "SPEED LIMIT 55" OR "65" FWY SIGN ONLY
VR-141

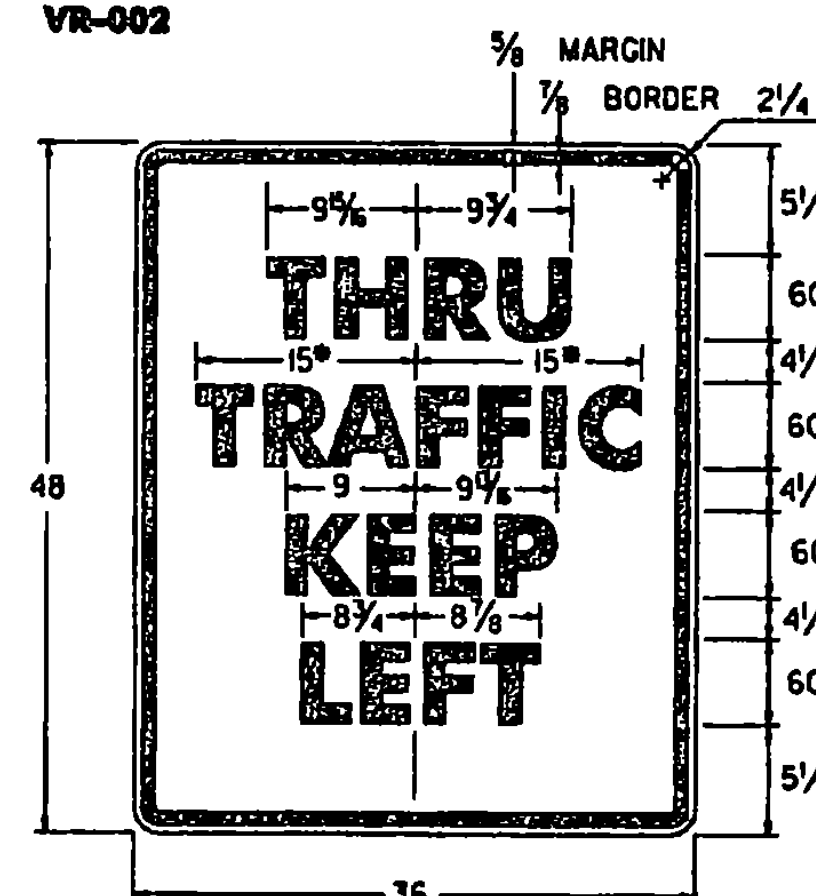


R2-3A

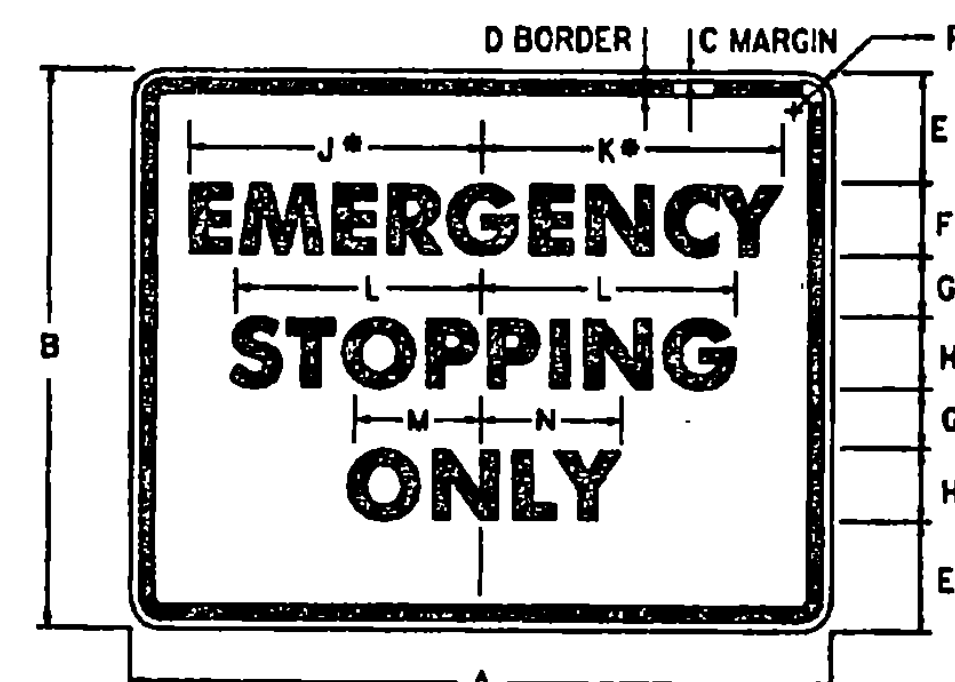
SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
MIN.	18	24	3/8	3/8	3 1/2	4B	2 1/2	4C	6 3/8	7	6 3/8	7 1/2
STD.	24	30	3/8	3/8	3 1/2	6B	2 1/2	6C	10	10 3/4	9 3/8	1 1/2
EXPWY.	36	48	3/8	3/8	7	8B	5	8C	14 1/4	14 3/4	13 3/8	14 2 1/4
FWY.	48	60	3/4	1/4	9	10B	6	10C	17 3/4	18 3/8	17	17 1/2 3



TEXT 4" C, SPACING 2"
VR-002

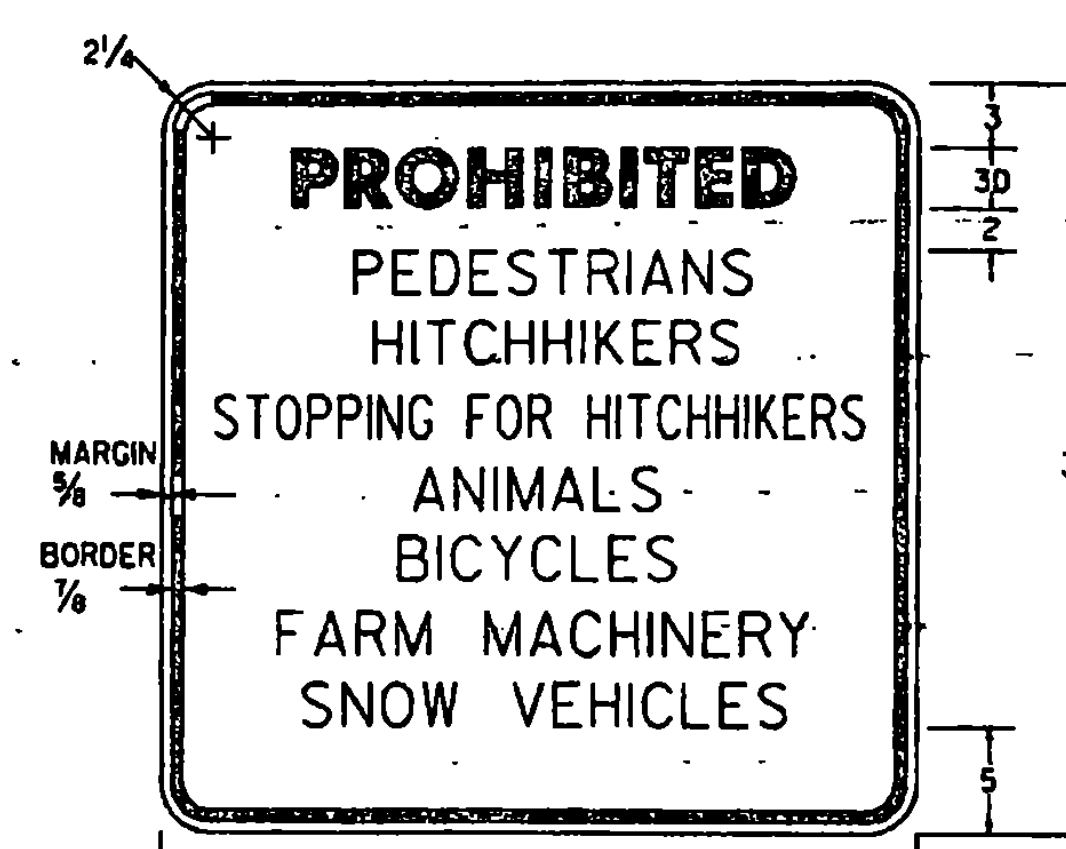


* REDUCE SPACING 25 %
VR-118L

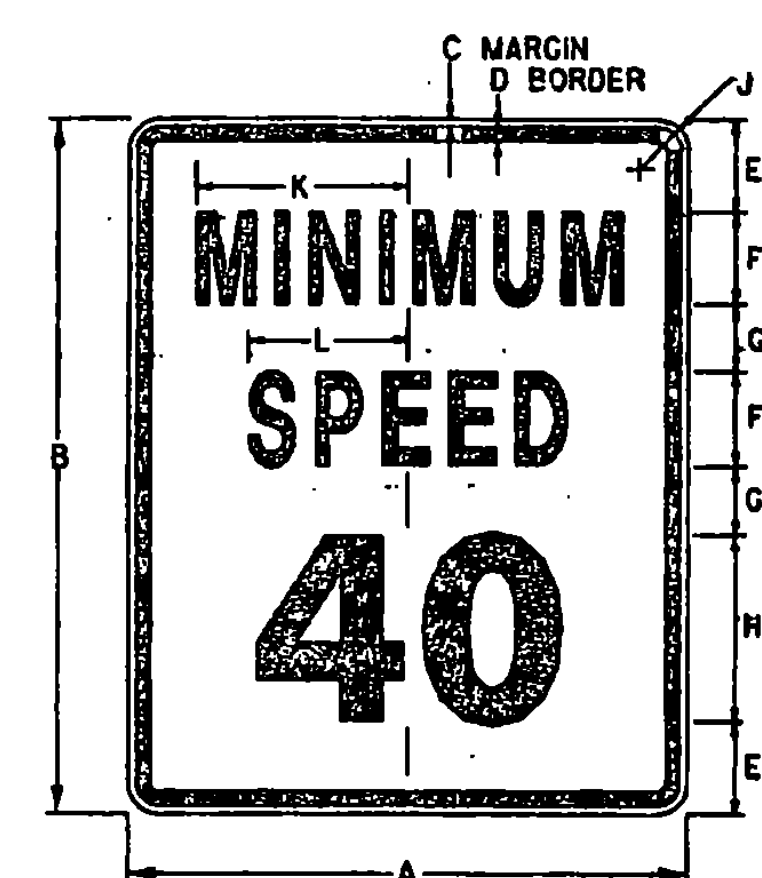


* FOR FWY SIZE, REDUCE SPACING 50 %
R2-7

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
EXPWY.	30	24	3/8	3/8	3 1/2	4C	2 1/2	4D	12 1/2	13	12 3/4	6 3/8 7 1 1/2
FWY.	48	36	3/8	3/8	5	6D	4	6D	20 1/2	21 1/8	19 1/8	10 1/8 10 3/8 2 1/4



TEXT 2" C, SPACING 1 1/2", EXCEPT WHERE NOTED.
VR-046



* OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE.
R2-4

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	
STD.	24	30	3/8	3/8	4	4E	2	10E	1 1/2	9 3/8	6 3/8	
EXPWY.	36	48	3/8	3/8	6	6E	5	14E	2 1/4	13 3/4	10 3/8	
FWY.	48	60	3/4	1/4	8	8E	4	20E	3	18 3/8	13 3/8	

GENERAL:

1. ALL DIMENSIONS IN INCHES.

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND, UNLESS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

	18' X 24'	24' X 30'	30' X 24'	36' X 12'	36' X 36'	36' X 48'	48' X 36'	48' X 48'	48' X 60'
FLAT SHEET ALUMINUM	0.060"	0.080"	0.100"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
HIGH DENSITY OVERLAIN PLYWOOD	1/2"	1/2"	1/2"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
GALVANIZED FLAT SHEET STEEL	18 GAGE	16 GAGE	16 GAGE	14 GAGE	14 GAGE	14 GAGE	14 GAGE	14 GAGE	14 GAGE

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE AASHTO TYPE II OR III WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. HAND PAINTING MUST BE COMPARABLE IN QUALITY TO THE RESULTS OBTAINED BY SILK SCREENING.

SPECIFICATIONS:

REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

TEXT DESIGN:

LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AND DESIGNS PRESCRIBED IN THE STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

OTHER STDS.: NONE REQUIRED



STANDARD
E-142

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
SEPT. 20, 1995 - ADDED AND DELETED SIGN DETAILS, ADDED SIGN ID NUMBERS, MINOR NOTE REVISIONS.

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

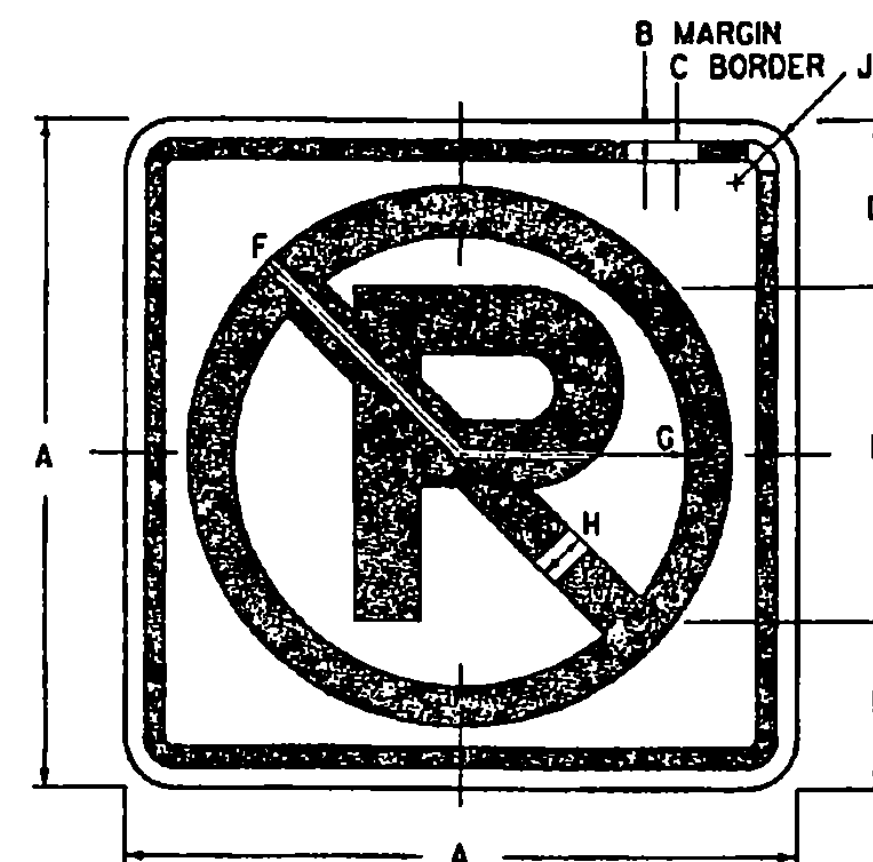
APPROVED

Stephen R. MacArthur
DIRECTOR OF ENGINEERING

David A. Smith
TRAFFIC AND SAFETY ENGINEER

REGULATORY SIGN DETAILS

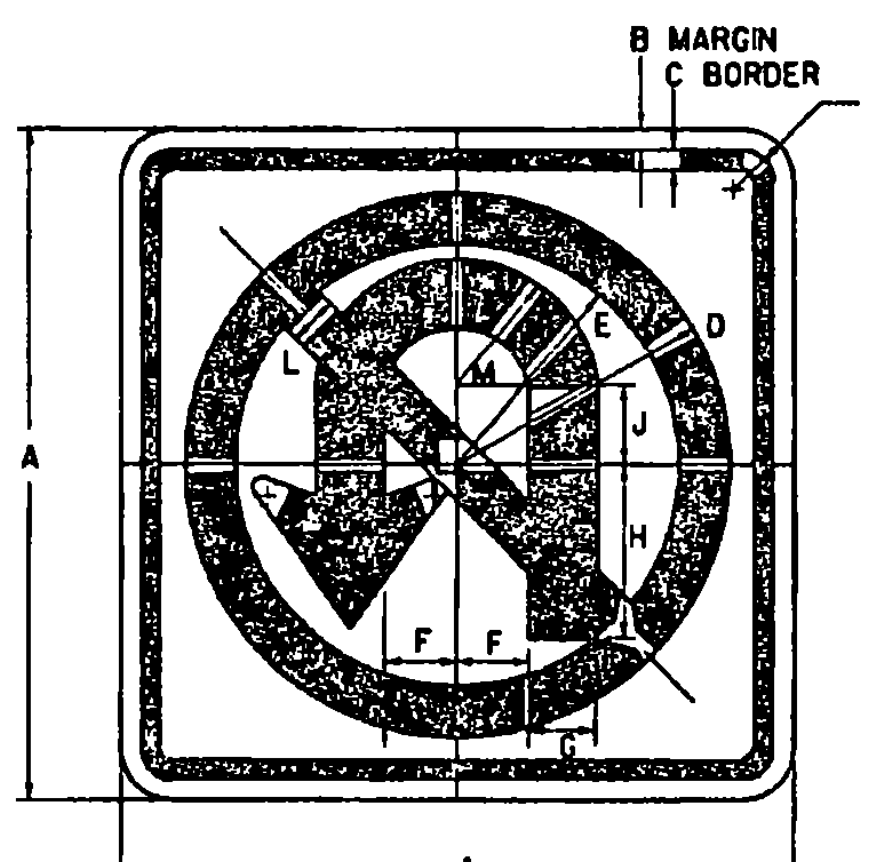
\\traf\std\stdel42.dgn : stdel42.1



COLORS
CIRCLE AND DIAGONAL - RED (REFL - RURAL)
SYMBOL AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL - RURAL)

R3-3A

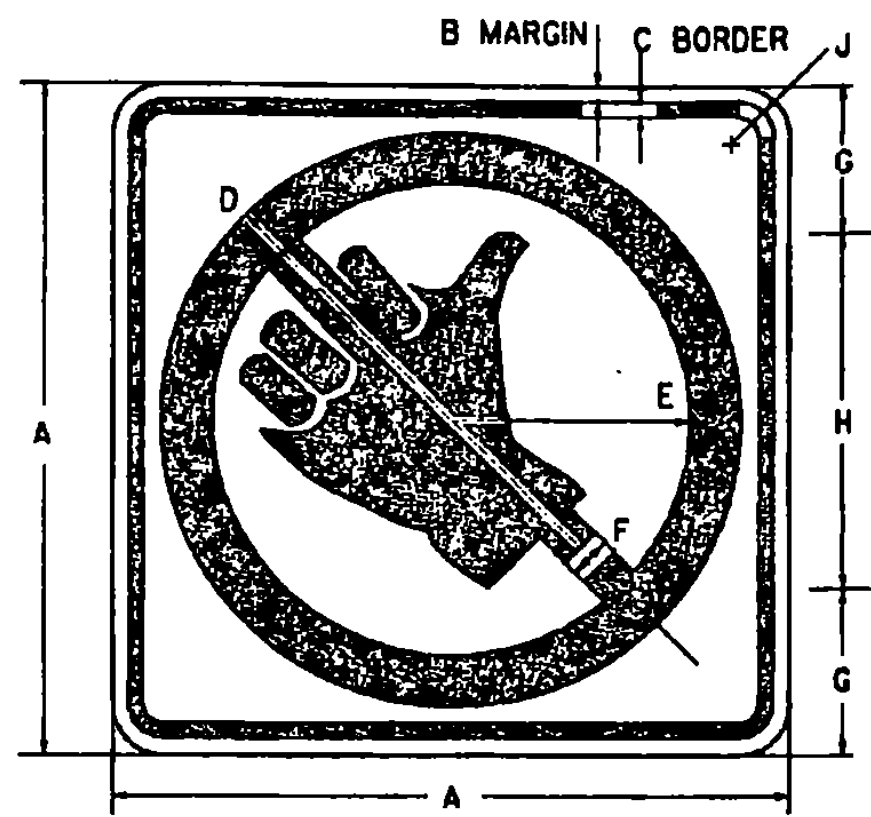
SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J		
URBAN MIN. AND STD.	12	3/8	3/8	3	6E(M)	4 1/8	3 3/8	1	1 1/2		
RURAL MIN. AND STD.	24	3/8	3/8	6	12E(M)	10 1/2	8 1/2	2	1 1/2		
EXPWY.	36	3/8	3/8	9	18E(M)	15 3/4	12 3/4	3	2 1/4		
FWY.	48	3/4	1 1/4	12	24E(M)	21	17	4	3		



COLORS
CIRCLE AND DIAGONAL - RED (REFL)
ARROW AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

R3-4

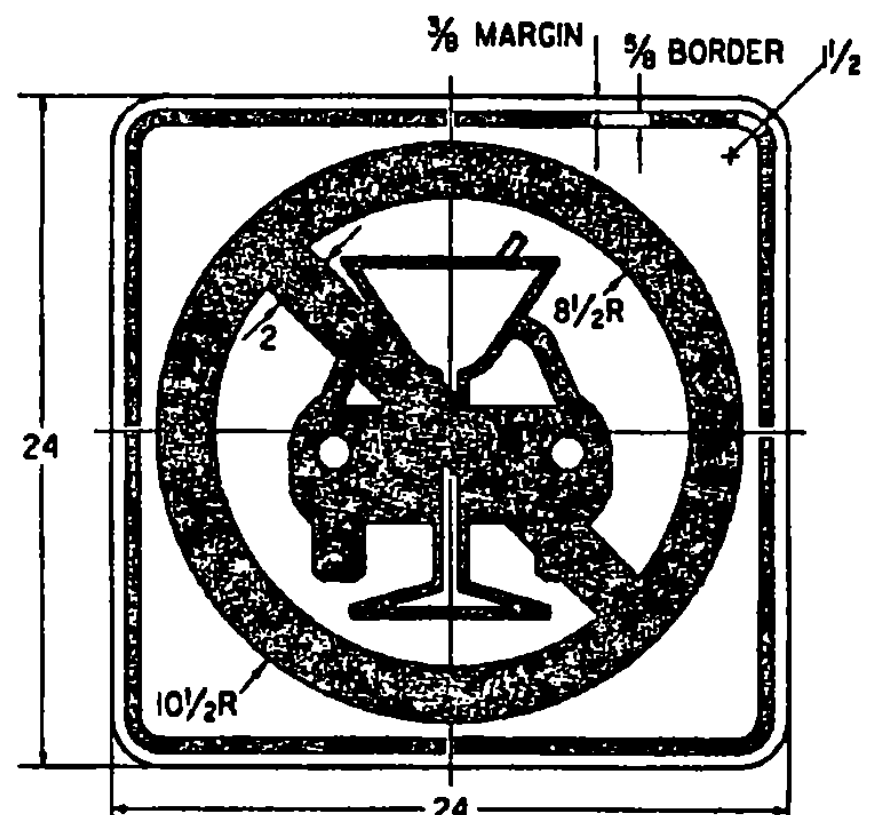
SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	
MIN. AND STD.	24	3/8	3/8	10 1/2	8 1/2	2 1/2	2 1/2	6	2 1/4	1 1/2	2	5	
SPECIAL	30	1/2	3/4	13 1/8	10 3/8	3 3/8	3 3/8	7 1/2	2 3/4	1 3/4	2 1/2	6 1/4	
EXPWY.	36	3/8	3/8	15 3/4	12 3/4	3 3/4	3 3/4	9	3 3/8	2 1/4	3	7 1/2	
SPECIAL	48	3/4	1 1/4	21	17	5	5	12	4 1/2	3	4	10	



COLORS
CIRCLE AND DIAGONAL - RED (REFL)
SYMBOL AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

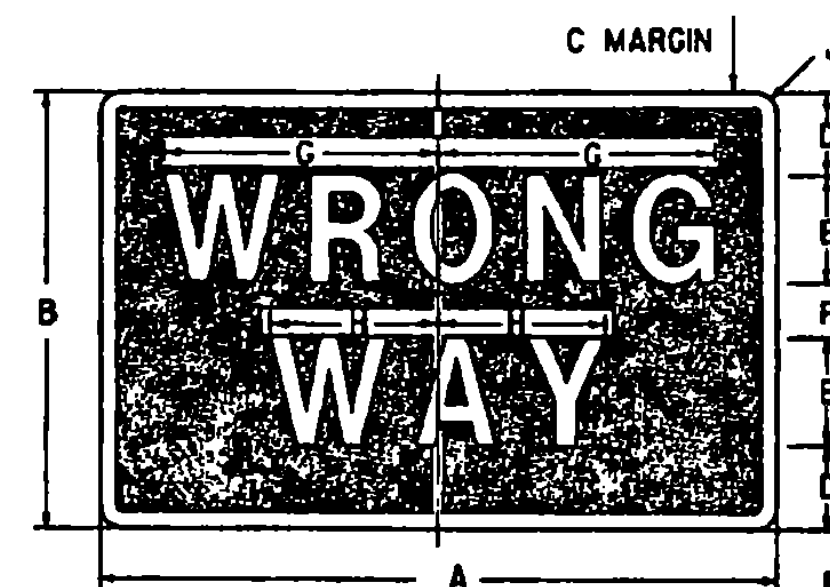
R3-4A

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J		
MIN.	18	3/8	3/8	7 1/8	6 1/8	1 1/2	3 3/4	10 1/2	1 1/2		
STD.	24	3/8	3/8	10 1/2	8 1/2	2	5	14	1 1/2		



COLORS
CIRCLE AND DIAGONAL - RED (REFL)
SYMBOL AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

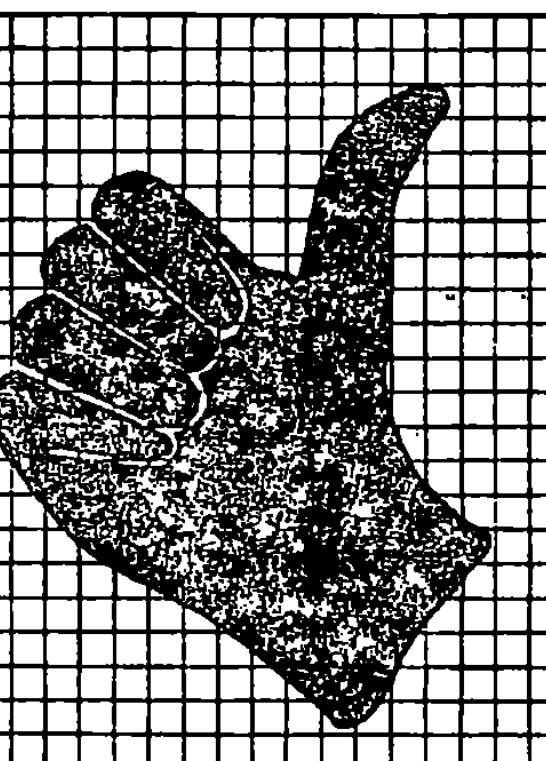
VR-454



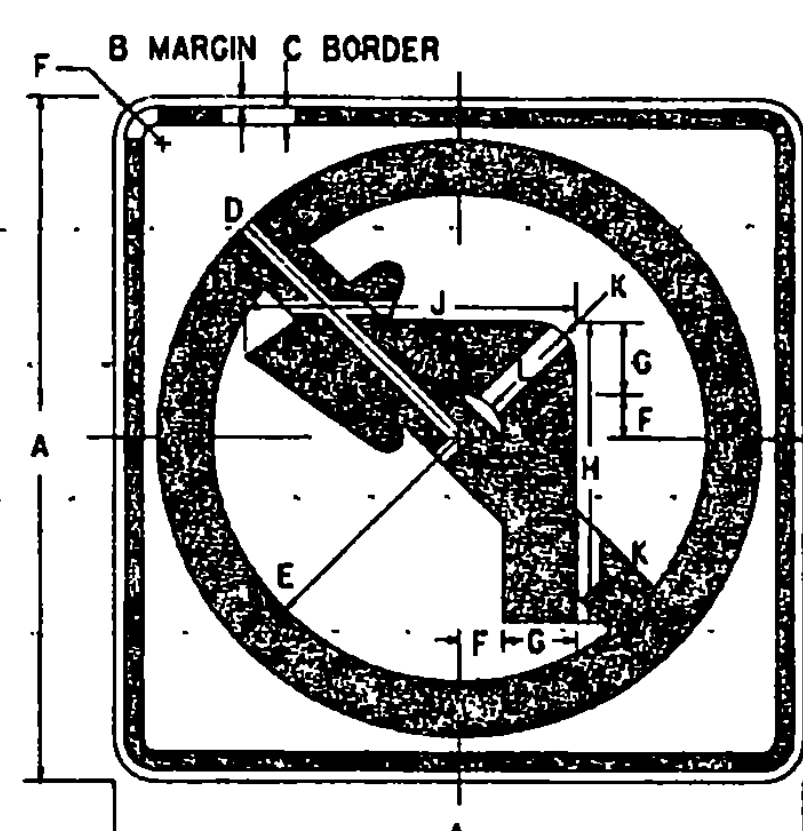
"WRONG WAY"

COLORS
LEGEND - WHITE (REFL)
BACKGROUND - RED (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J		
MIN.	30	18	3/8	3	5D	2	1 1/8	6 1/8	1 1/2		
STD.	36	24	3/4	4 1/2	6D	3	1 3/8	8 1/8	1 1/2		
SPECIAL	42	30	3/8	5	8D	4	1 7/8	10 1/4	1 1/2		



R3-2



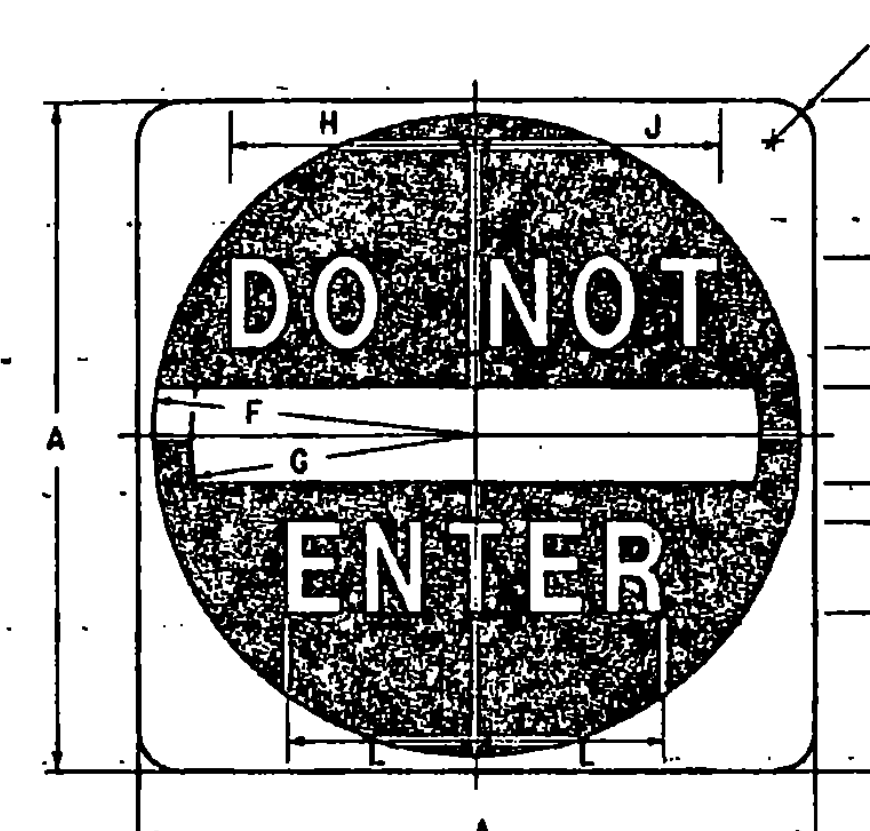
R3-1

NOTE:
USE SAME ARROW DETAIL FOR R3-1 AND R3-2

COLORS

CIRCLE AND DIAGONAL - RED (REFL)
ARROW AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

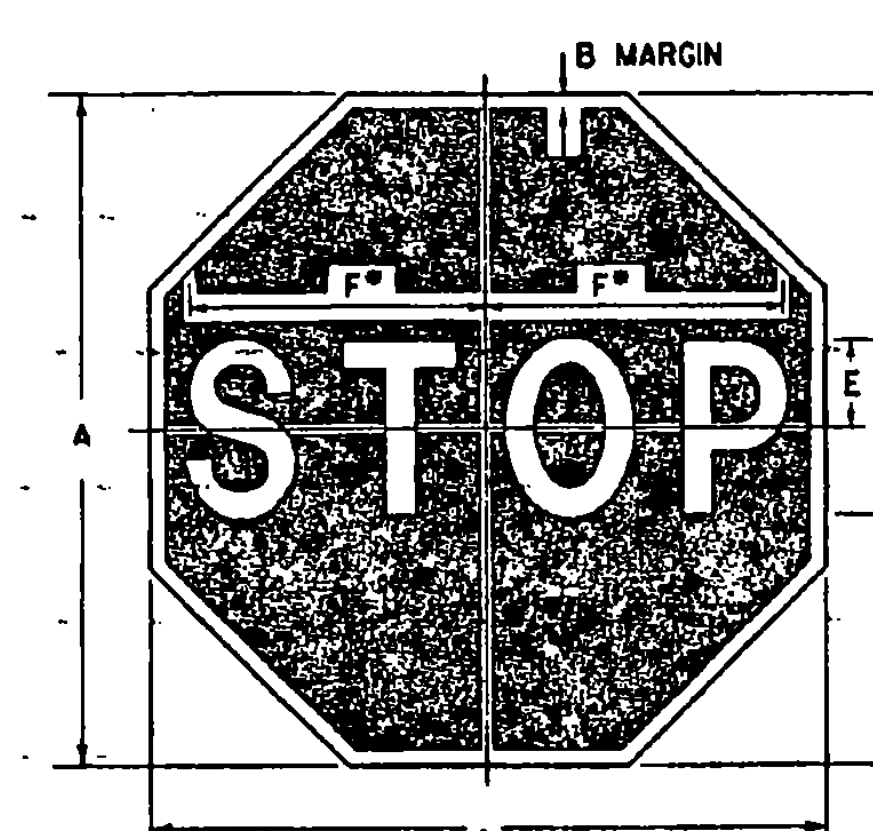
SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L		
MIN. AND STD.	24	3/8	3/8	10 1/2	8 1/2	1 1/2	2 1/2	10 1/2	1 1/2	2	1 1/2		
SPECIAL	30	1/2	3/4	13 1/8	10 3/8	1 3/8	3 3/8	13 1/8	1 3/8	2 1/2	3/4		
EXPWY.	36	3/8	3/8	15 3/4	12 3/4	2 1/4	3 3/4	15 3/4	2 1/4	3	3/4		
SPECIAL	48	3/4	1 1/4	21	17	3	5	21	3	4	1		



R3-1

COLORS
SYMBOL - RED (REFL)
LEGEND AND BACKGROUND - WHITE (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L		
MIN. AND STD.	30	6 1/2	4D	2	5	14 1/2	12 1/2	9 3/4	10	1 1/8	7 7/8		
EXPWY.	36	7 1/2	5D	2 1/2	6	17 1/2	15	12	12 3/8	2 1/4	8 1/4		
SPECIAL	48	11	6D	3	8	23 1/2	20	14 1/2	15	3	11 1/4		



R1-1

• REDUCE SPACING 40 %
COLORS
LEGEND - WHITE (REFL)
BACKGROUND - RED (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
BIKE	18	3/8	6	6C	3	7 3/4
MIN.	24	3/8	8	8C	4	10
STD.	30	3/4	10	10C	5	12 1/2
EXPWY.	36	3/8	12	12C	6	15
SPECIAL	48	1 1/4	16	16C	8	20

GENERAL:

- ALL DIMENSIONS IN INCHES.
- SEE STANDARD E-144 FOR ARROWHEAD DETAILS.

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS:

THE SIGN BASE MATERIALS USED FOR REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

	12' x 12'	24' x 24'	36' x 24'
FLAT SHEET ALUMINUM	0.060"	0.080"	0.100"
HIGH DENSITY OVERLAP PLYWOOD	1 1/2"	1 1/2"	5/8"
GALVANIZED FLAT SHEET STEEL	18 GAGE	16 GAGE	14 GAGE

THE REFLECTIVE MATERIAL SHALL BE AASHTO TYPE II OR III WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE BLACK PORTIONS OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. HAND PAINTING MUST BE COMPARABLE IN QUALITY TO THE RESULTS OBTAINED BY SILK SCREENING. ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

SPECIFICATIONS:

REGULATORY SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR TRAFFIC SIGNS.

TEXT DESIGN:

LETTERS, DIGITS, ARROWS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS AND DESIGNS PRESCRIBED IN THE STANDARD HIGHWAY SIGNS AS SPECIFIED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
SEPT. 20, 1995 - ADDED AND DELETED SIGN DETAILS,
ADDED SIGN ID NUMBERS, MINOR NOTE
REVISIONS.

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION,
FHWA FINAL APPROVAL PENDING.

APPROVED

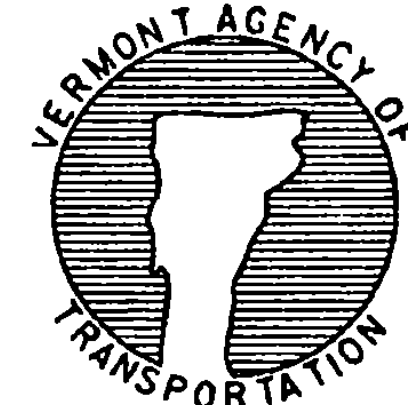
Samuel D. McArthur
DIRECTOR OF ENGINEERING

David O. San
TRAFFIC AND SAFETY ENGINEER

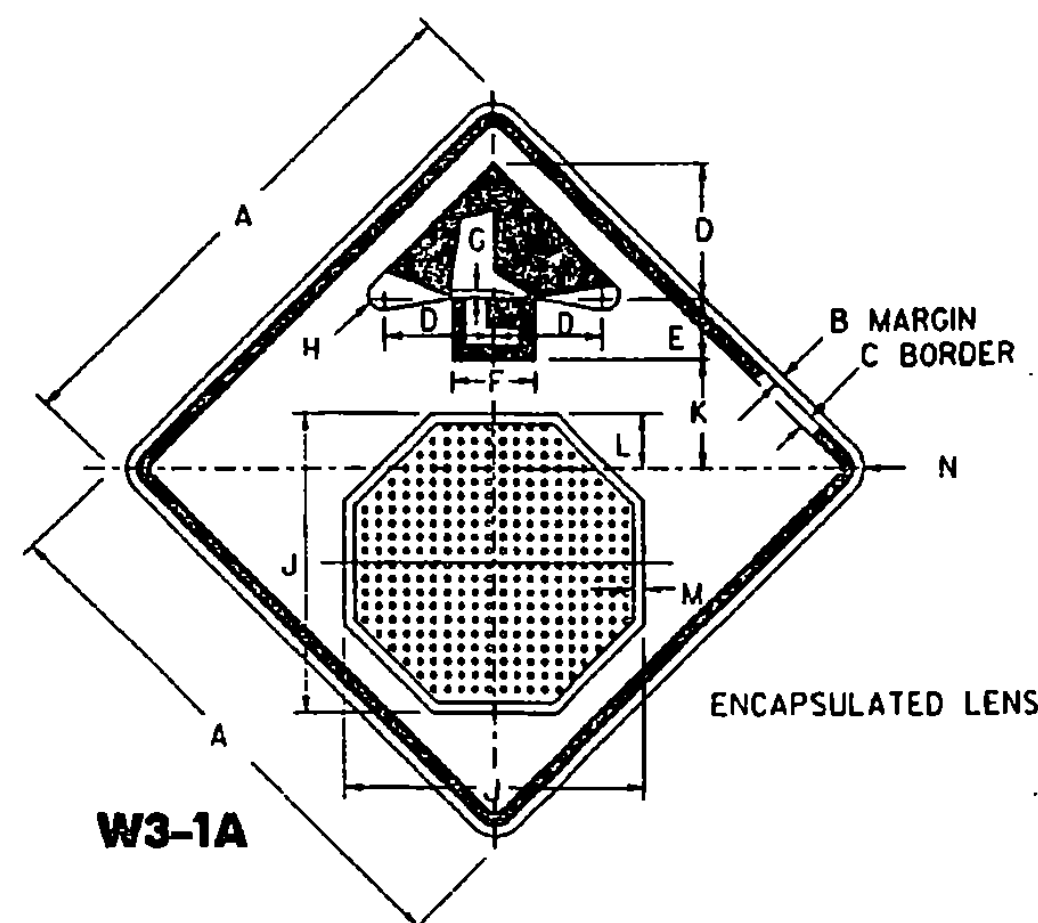
REGULATORY SIGN DETAILS

/traf/std/stdel43.dgn :stdel43.i

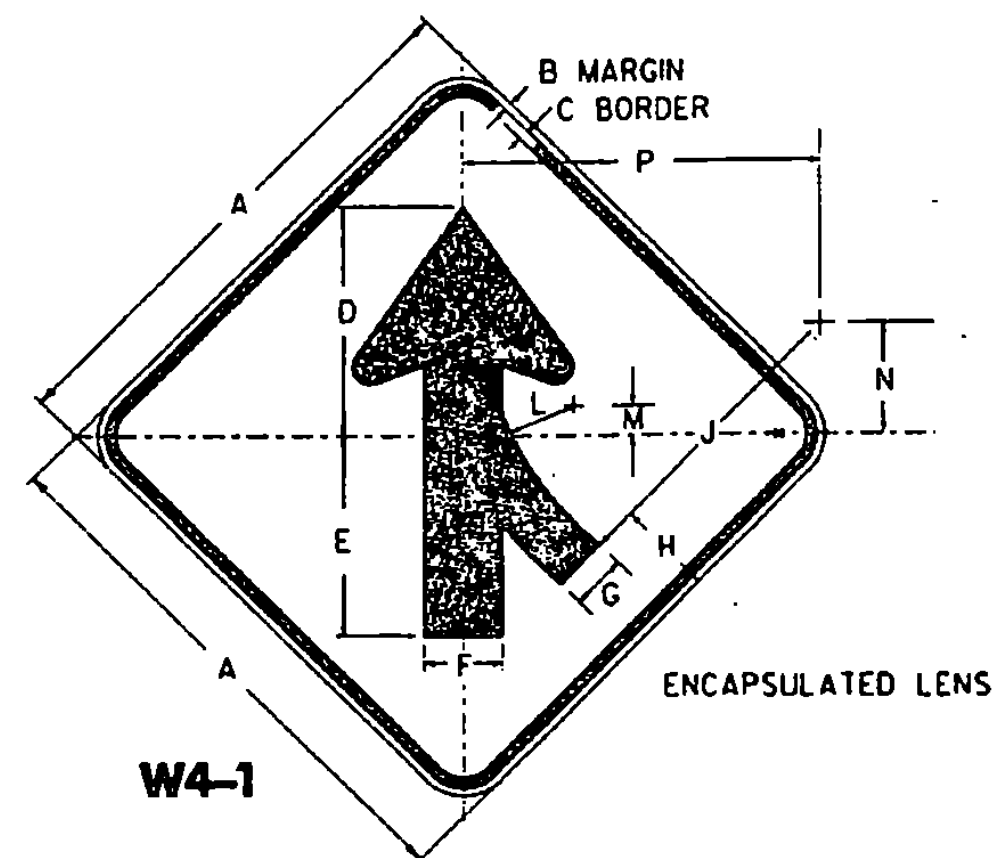
OTHER STDs: E-144
REQUIRED



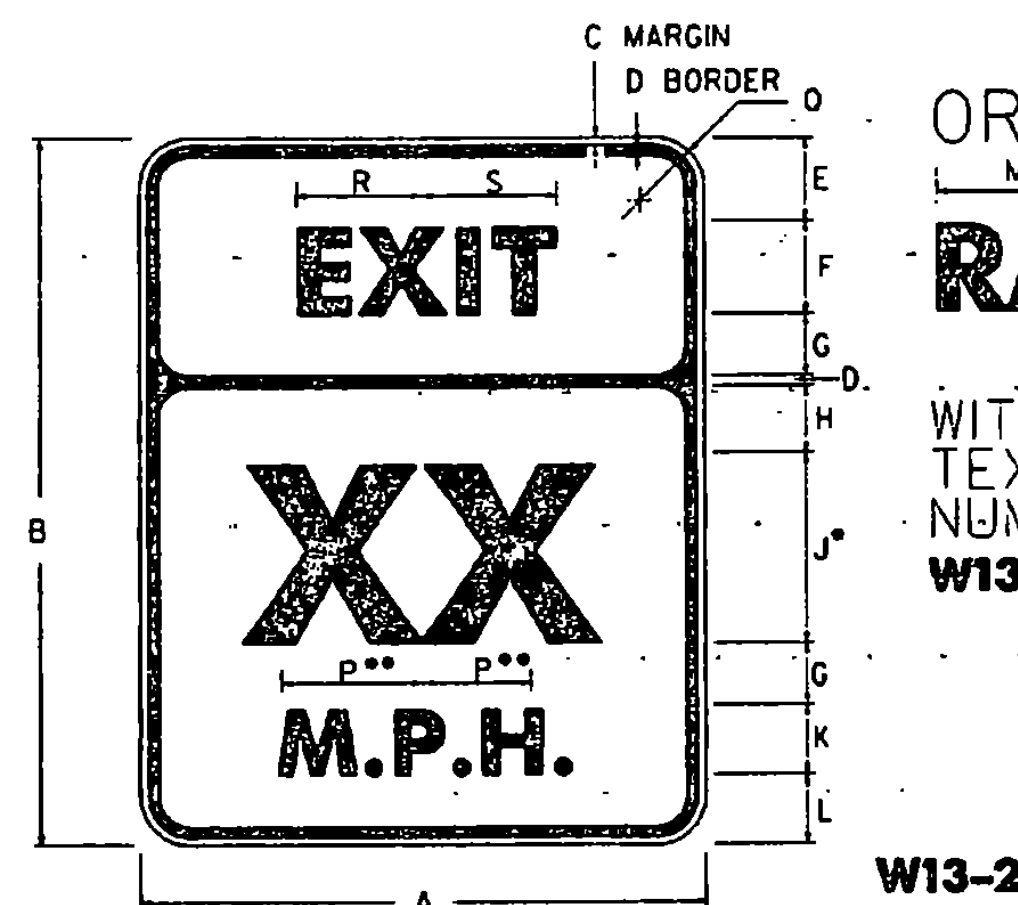
STANDARD E-143



W3-1A

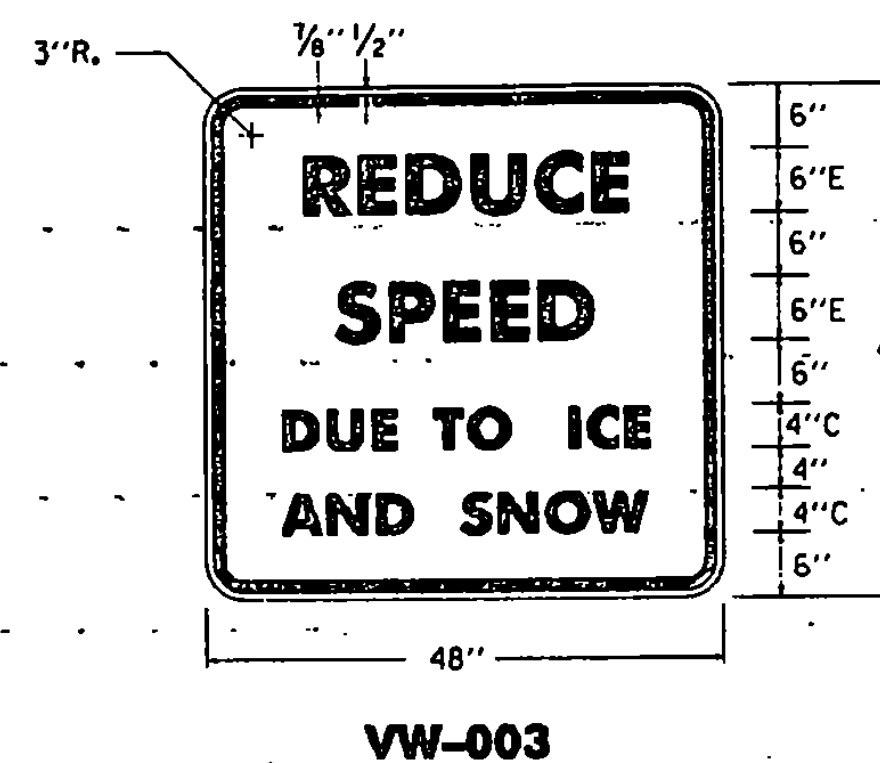


W4-1

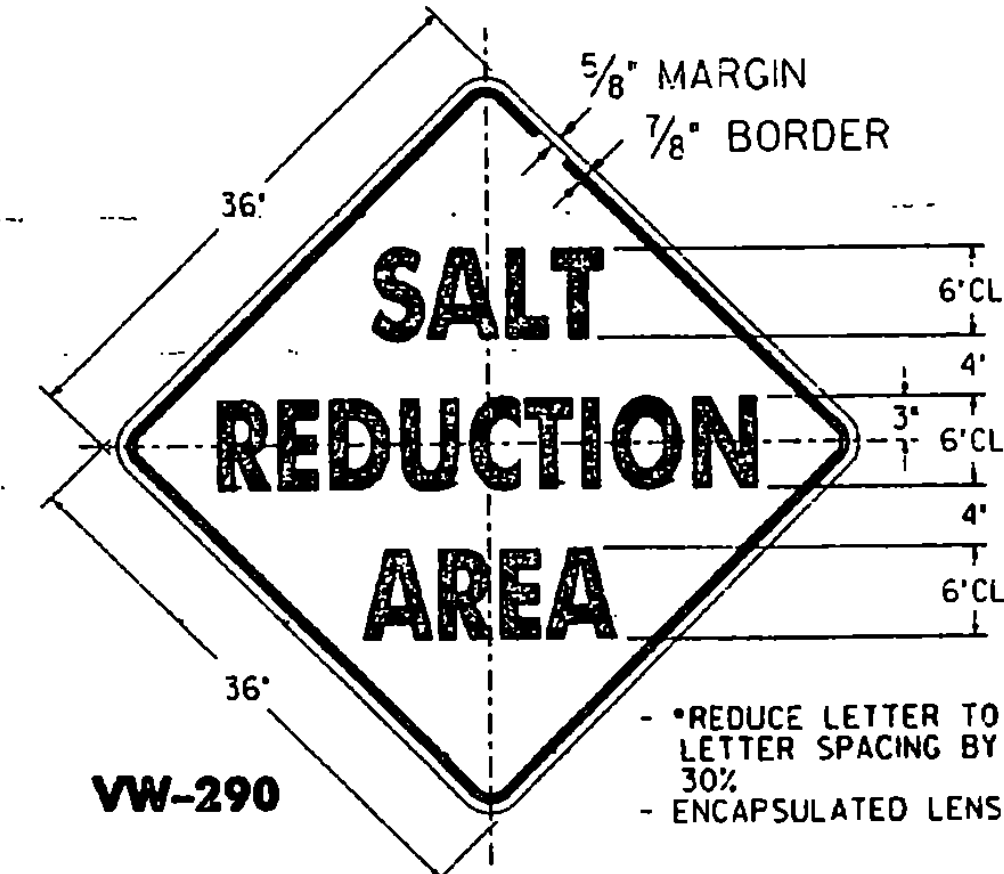


W13-2

OR
RAMP
WITH "RAMP"
TEXT SIGN
NUMBER IS
W13-3



VW-003



VW-290

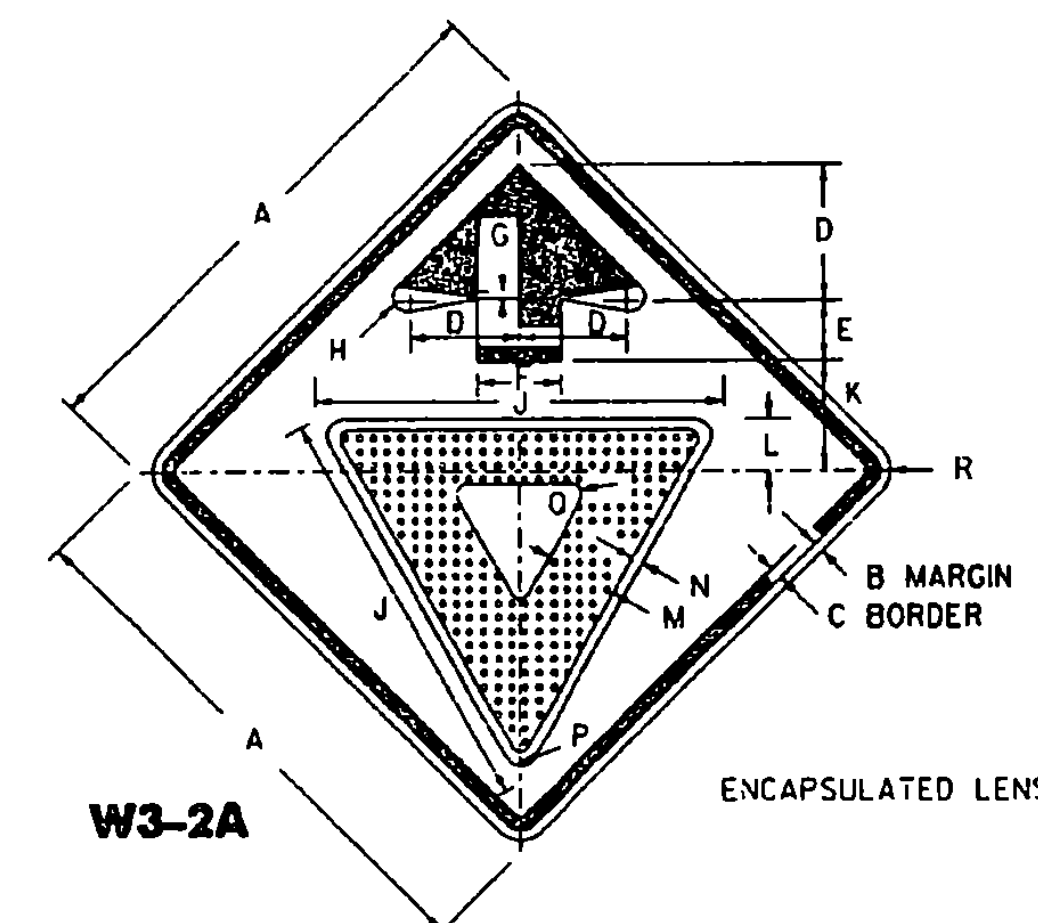
COLORS
BORDER AND ARROW - BLACK (NON-REFL)
SYMBOL - WHITE BORDER ON RED BACKGROUND (REFL)

SIGN	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O	R
MIN.	30	1/2	3/4	7/16	3/4	5	3/8	3/8	15/16	6/4	2 1/2	1/2	1 1/4	1 1/2	1 1/2	1 1/2
STD.	36	3/8	3/8	9	4 1/2	6	3/4	3/4	19	1 1/2	3 1/2	3/8	2 1/4	2 1/4	2 1/4	2 1/4
SPECIAL	48	3/4	1 1/4	12	6	8	1	1 1/2	25/8	10	4 1/2	3/4	3	3	3	3

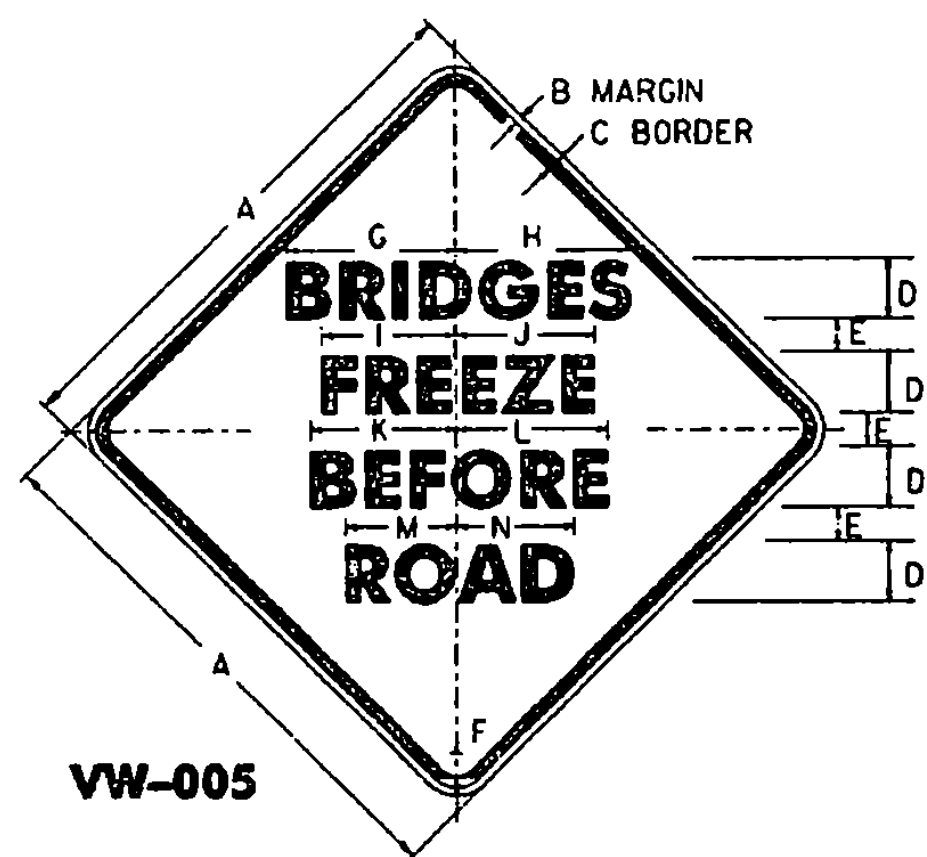
SIGN	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O	R
MIN.	24	3/8	3/8	10 1/4	8 3/4	3 1/2	4 1/4	2 1/4	1 1/2	6 1/4	2 1/4	10 3/4	22 3/4	22 3/4	22 3/4	22 3/4
STD.	30	1/2	3/4	13	11	4 3/4	3	5 1/4	2 1/4	8	3	13	27 3/4	27 3/4	27 3/4	27 3/4
EXPWY.	36	3/8	3/8	15 1/4	13 1/4	5 1/4	3 3/4	6 3/4	2 1/4	9 3/4	4	15 3/4	33 3/4	33 3/4	33 3/4	33 3/4
FWY.	48	3/4	1 1/4	20 1/4	17 1/4	7	4 3/4	8 3/4	4 3/4	12 3/4	5 1/4	20 3/4	44 3/4	44 3/4	44 3/4	44 3/4

* OPTICALLY SPACE NUMBERS ABOUT VERTICAL CENTERLINE
* INCREASE SPACING 100%
* THE "RAMP" SPEED SIGN IS USED ON RAMPS LEADING FROM ONE FREEWAY TO ANOTHER AND THE "EXIT" SPEED SIGN IS USED ON NORMAL EXITS.

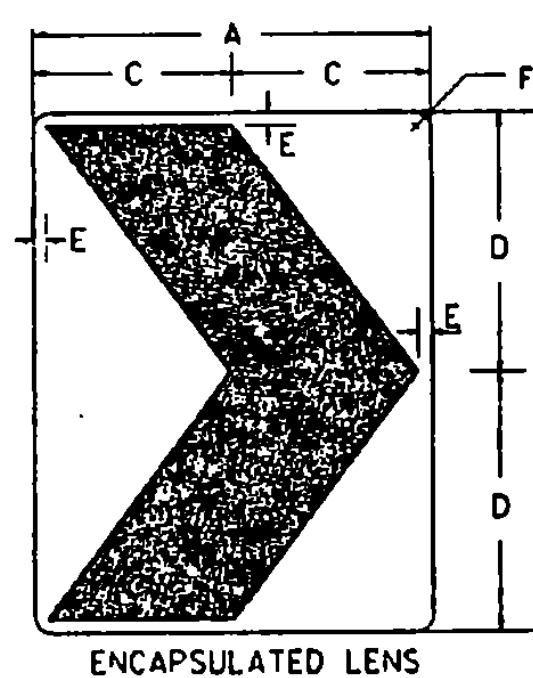
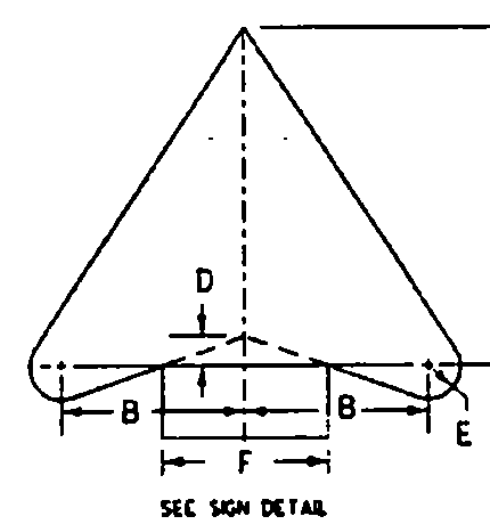
SIGN	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O	R
MIN. & STD.	24	30	3/8	3/8	3 1/2	4E	2 1/2	2 1/2	8E	3E	3	8 1/4	8 1/2	5 1/4	1/2	6 1/4
EXPWY.	36	48	3/8	3/8	6	6E	4	5 1/2	12E	4E	6	12 3/4	12 3/4	7 1/4	2 1/4	9 1/4
FWY.	48	60	3/4	1 1/4	7	8E	5	5 1/4	16E	6E	6	16 1/2	17	10 3/4	3	12 1/4



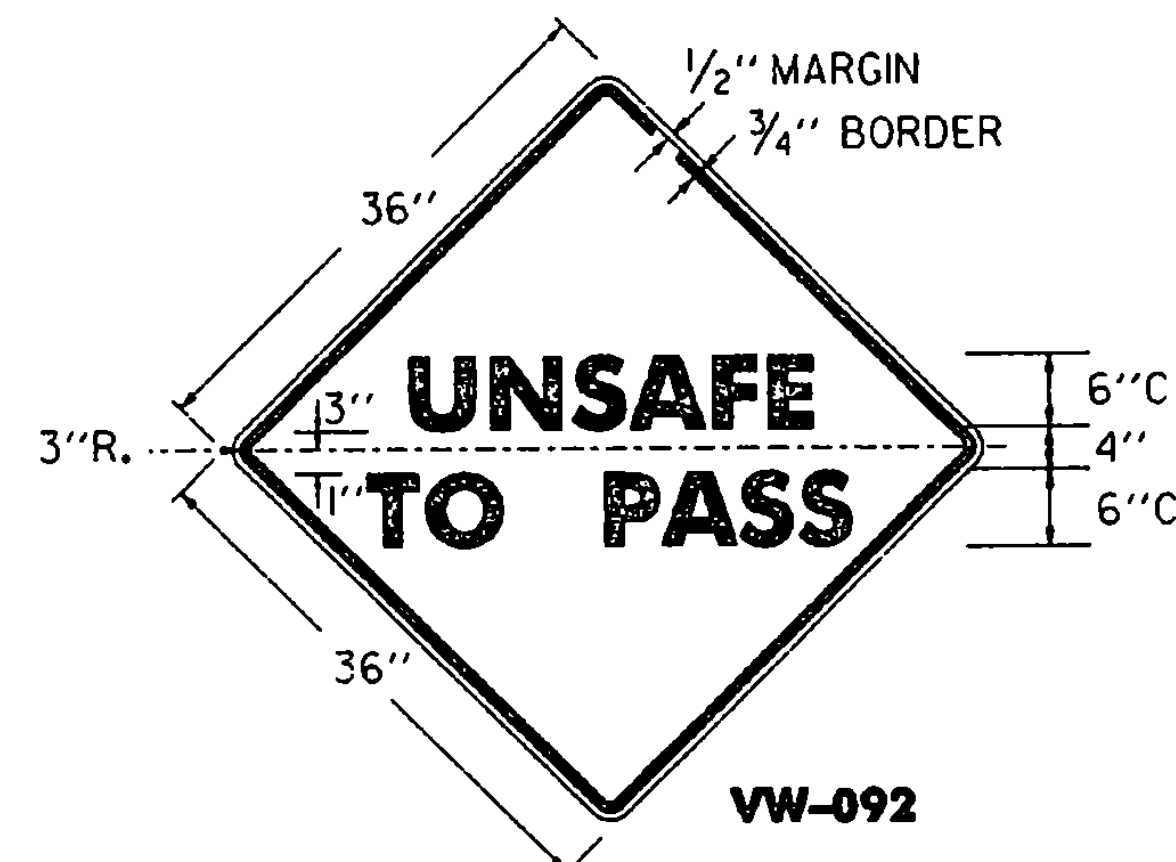
W3-2A



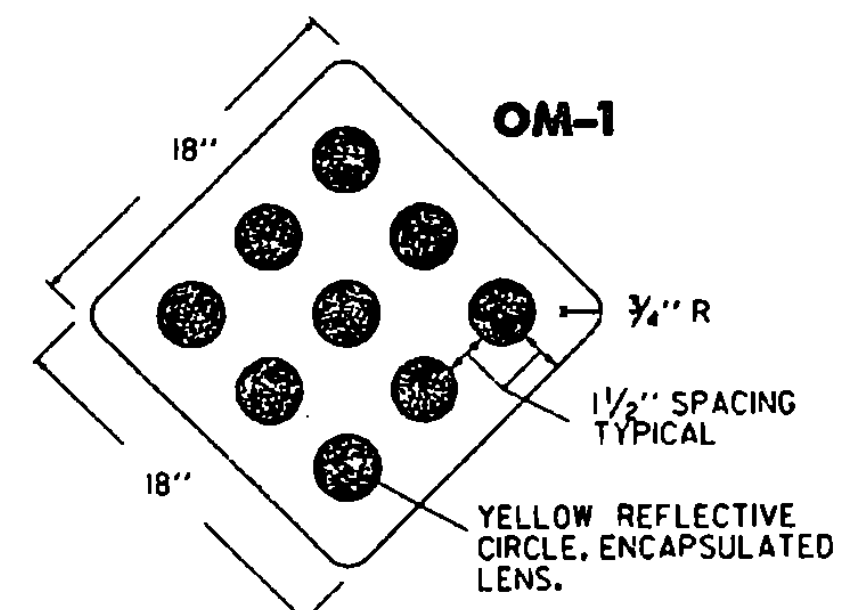
VW-005



W1-8



VW-092



OM-1

HAZARD MARKERS SHALL BE OF 0.060 FLAT SHEET ALUMINUM OR 18 GAGE GALVANIZED FLAT SHEET STEEL, WITH A NON-REFLECTIVE YELLOW BACKGROUND AND NINE 4" DIA. CIRCLES EVENLY SPACED WITH MATERIALS AS NOTED ABOVE.

COLORS
ALL THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT AND SYMBOLS ON REFLECTORIZED YELLOW BACKGROUND EXCEPT AS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS
THE SIGN BASE MATERIALS USED FOR THE WARNING SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING, OF THE MINIMUM THICKNESS NOTED.

	24" x 24"	24" x 30"	36" x 36"	48" x 48"
FLAT SHEET ALUMINUM	0.060"	0.060"	0.060"	0.060"
HIGH DENSITY OVERLAP PLYWOOD	1/2"	1/2"	1/2"	1/2"
GALVANIZED FLAT SHEET STEEL	18 GAGE	16 GAGE	14 GAGE	12 GAGE

THE TEXT, BORDER, AND SYMBOL SHALL BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION. ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

TEXT DESIGN
LETTERS, DIGITS, SYMBOLS, SPACINGS, AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGNS PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS
WARNING SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR "TRAFFIC SIGNS".

OTHER STDS.
REQUIRED:

REVISIONS AND CORRECTIONS
OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - ADDED SIGN DETAIL AND I.D. NUMBER FOR EACH DETAIL

APPROVED

James A. McArthur
DIRECTOR OF ENGINEERING

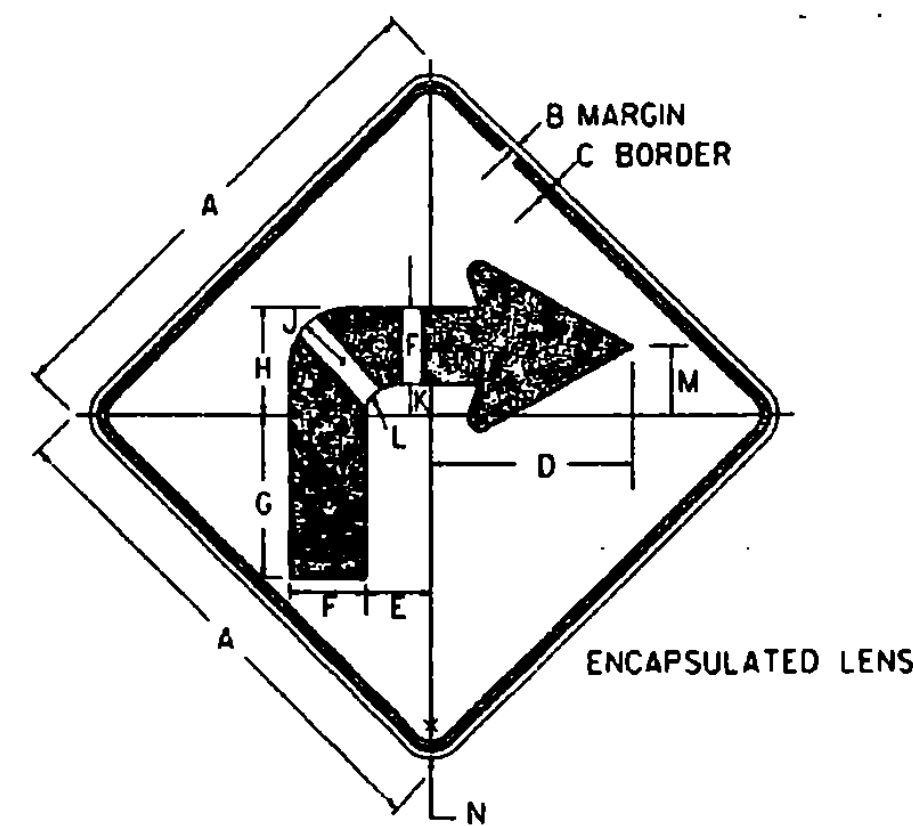
David A. Ross
TRAFFIC AND SAFETY ENGINEER

WARNING SIGN DETAILS



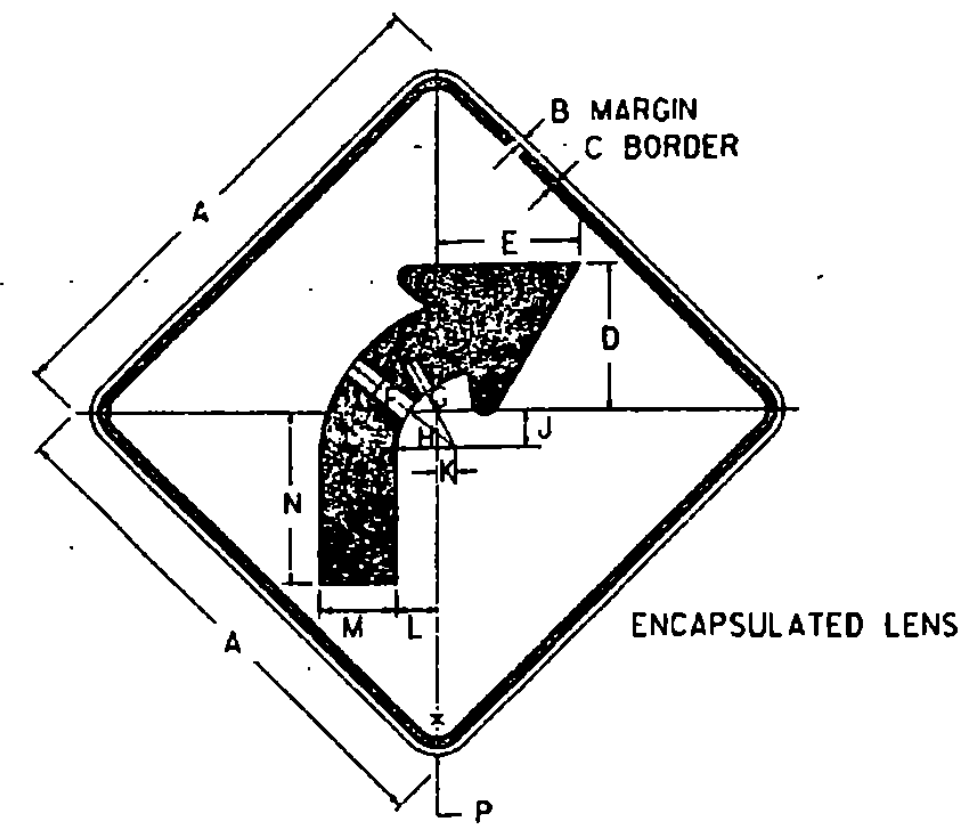
STANDARD
E-150

\\trcf\std\stdel50dgn : stdel50.i



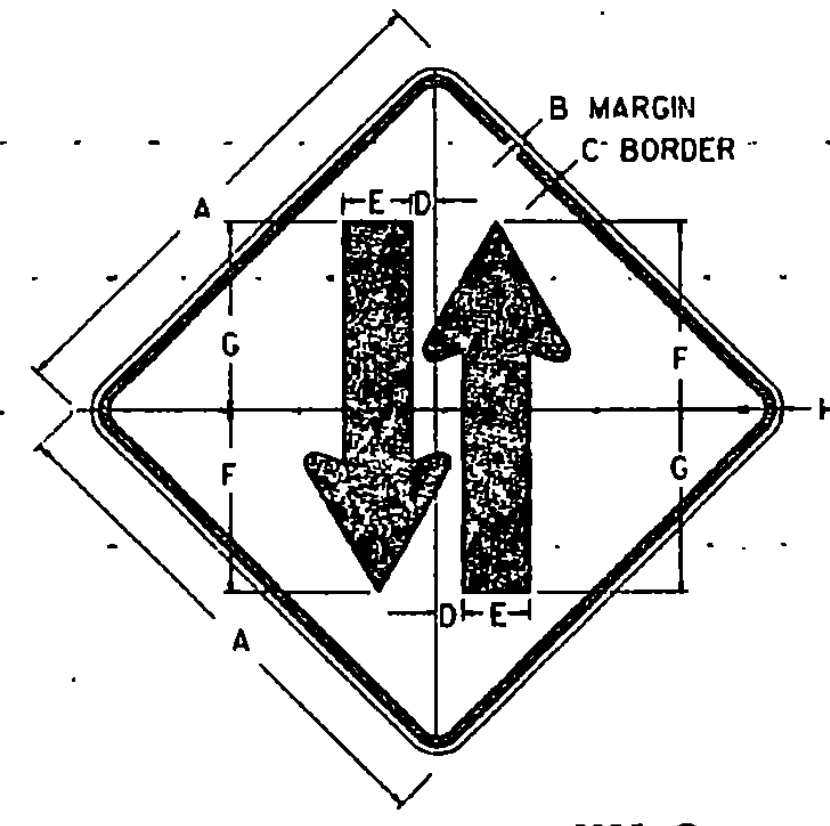
W1-1R

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
BIKE	18	3/8	3/8	7/4	2 1/4	2 3/8	5 1/8	3 3/4	1 1/8	1	5/8	2 1/2	1 1/2
MIN.	24	3/8	3/8	9 3/8	3	3 1/2	7 3/4	5	2 1/2	1 1/2	1 1/4	3 1/4	1 1/2
STD.	30	1/2	3/4	12	3 3/4	4 3/8	9 1/8	6 1/4	3	1 7/8	1	4 1/8	1 7/8
EXPWY.	36	3/8	7/8	14 3/8	4 1/2	5 1/4	11 3/8	7 1/2	3 3/8	2 1/4	1 1/4	4 3/8	2 1/4
SPECIAL	48	3/4	1 1/4	19 3/8	6	7	15 1/2	10	4 3/8	3	1 5/8	6 1/2	3



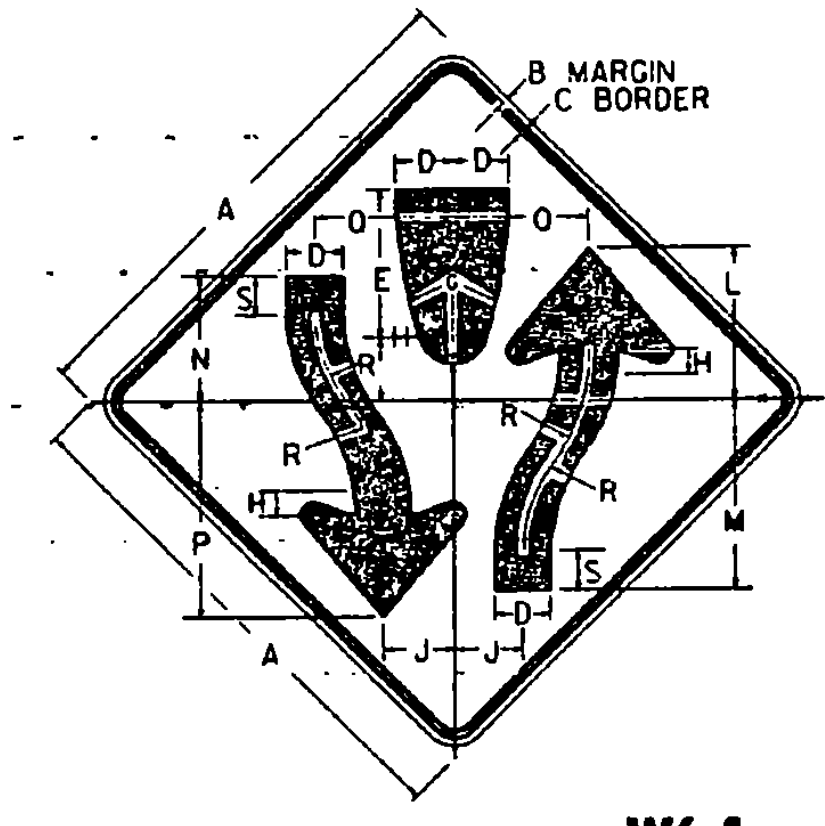
W1-2R

SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
BIKE	18	3/8	5/8	5 3/8	5 1/2	6	4 3/4	3 3/8	1 3/4	1 1/4	2	2 3/8	6 1/4	1 1/2
MIN.	24	3/8	3/8	7 1/8	7 1/4	8	6 1/4	4 1/2	2 3/8	1 3/4	2 3/4	3 1/2	8 1/4	1 1/2
STD.	30	1/2	3/4	8 3/8	9 1/8	10	7 1/8	5 3/8	2 3/8	2 3/8	3 3/8	4 3/8	10 3/8	1 7/8
EXPWY.	36	3/8	7/8	10 3/8	10 1/8	12	9 3/8	6 3/4	3 1/2	2 3/8	4 1/8	5 1/4	12 3/8	2 1/4
FWY.	48	3/4	1 1/4	14 3/8	14 1/2	16	12 1/2	9	4 1/8	3 1/2	5 1/2	7	16 1/2	3



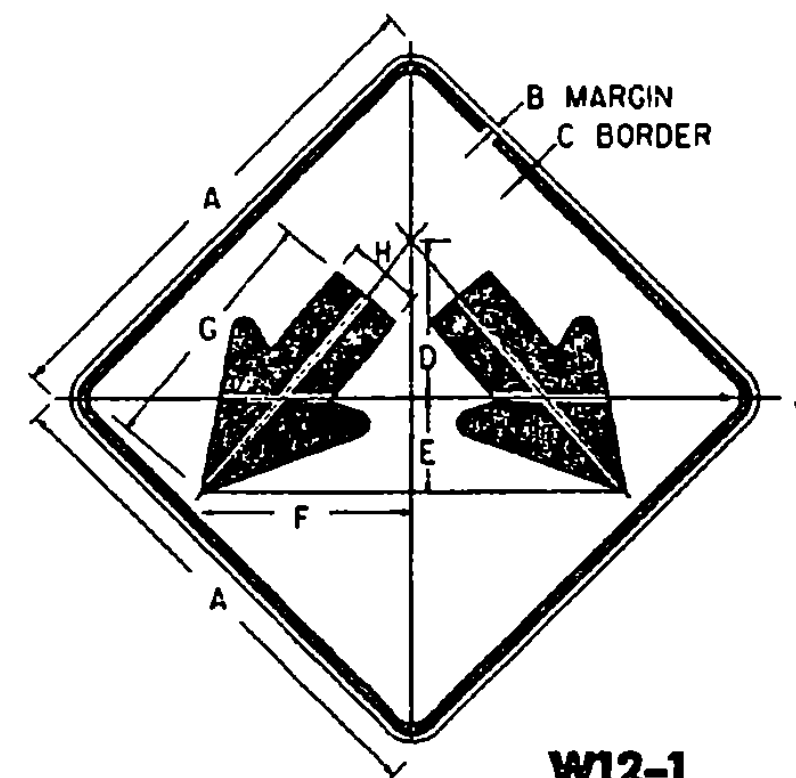
W6-3

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
MIN.	24	3/8	3/8	2	3	9	8 1/2	1 1/2
STD.	30	1/2	3/4	2 1/8	3 3/4	11 1/4	10 3/8	1 7/8
EXPWY.	36	3/8	7/8	2 3/8	4 1/2	13 1/2	12 3/4	2 1/4
SPECIAL	48	3/4	1 1/4	3 3/8	6	18	17	3



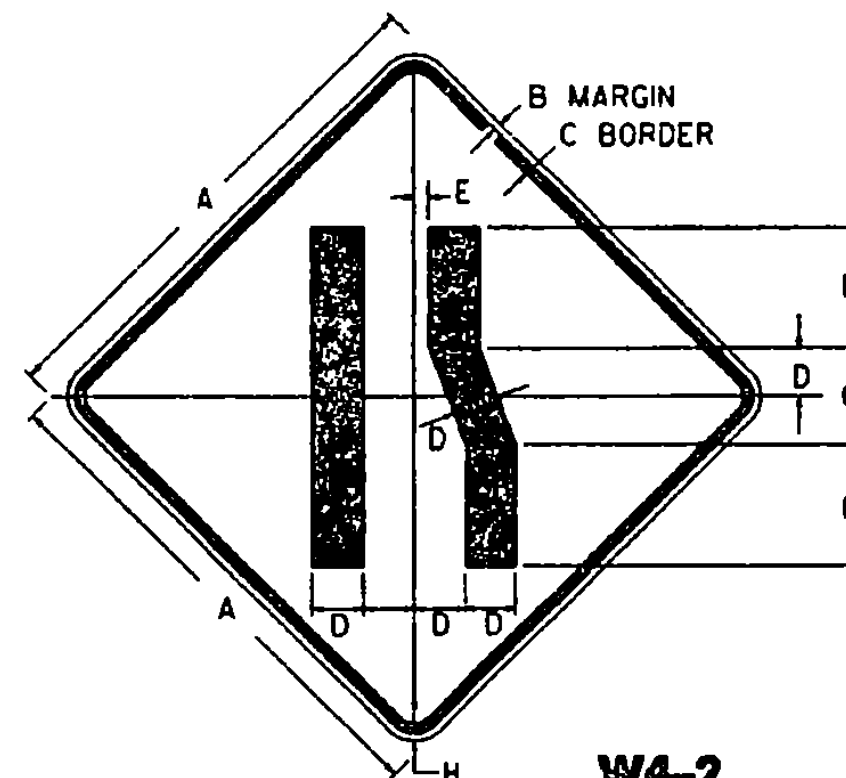
W6-1

SIGN	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S
MIN.	30	1/2	3/4	3 3/8	8 3/8	4 1/8	25	1 1/8	4 1/8	1 7/8	10	11 3/8	7 1/8	13 1/8	7 3/8	8 3/8	2 1/8
STD. & EXPWY.	36	3/8	7/8	4	10	5	30	2	5	2 1/4	12	14	9 1/2	16 1/2	9 1/2	10	2 1/2
SPECIAL	48	3/4	1 1/4	5 1/4	13 3/8	6 3/8	39 3/8	2 3/8	6 3/8	3	16	18 1/4	12 3/8	22	12 3/8	13 3/8	3 3/8



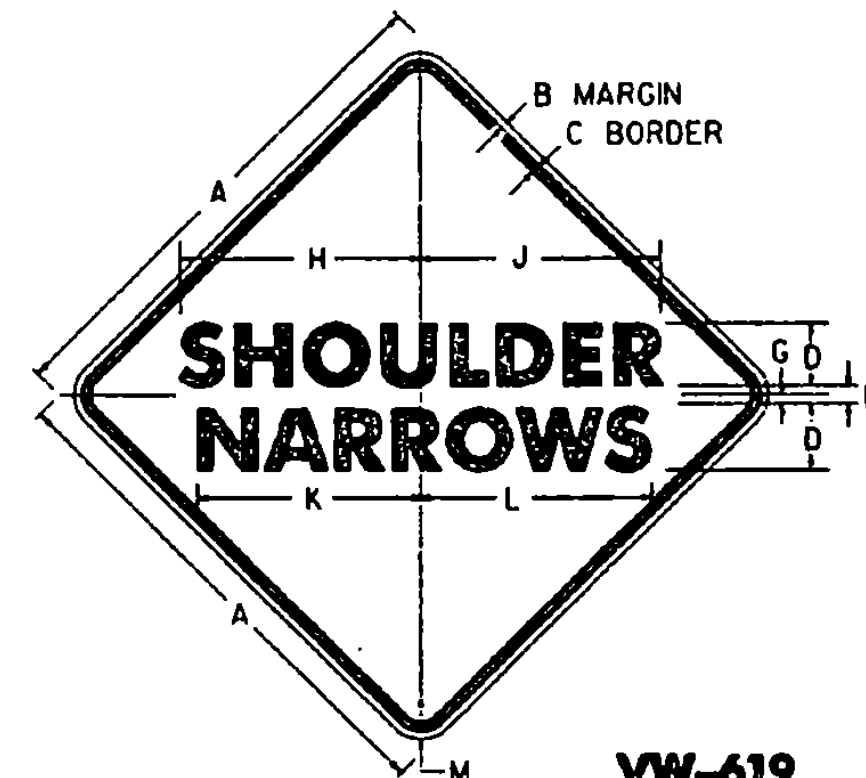
W12-1

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	J
STD. & MIN.	24	3/8	3/8	8	4 1/8	9 3/4	11 3/8	3 3/8
SPECIAL	30	1/2	3/4	10	5 1/4	12 3/8	14 3/8	4
SPECIAL	36	3/8	7/8	12	6 1/8	14 3/8	17 1/2	4 3/4



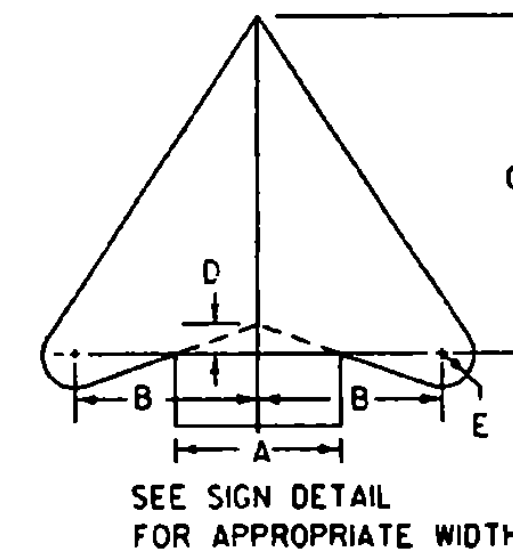
W4-2

SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
MIN.	30	1/2	3/4	3 3/8	1 3/8	8 3/8	6 3/4	1 7/8
STD. & EXPWY.	36	3/8	7/8	4	1	10	8	2 1/4
FWY.	48	3/4	1 1/4	5 3/8	1 3/8	13 3/8	10 3/8	3



VW-619

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	
MIN & STD.	36	5/8	7/8	5C	3	6D	1	13 1/8	13 1/8	17 3/8	18 1/4	2 1/4	
EXPWY.	48	3/4	1 1/4	7D	3 1/2	7D	1	23 1/8	23 3/8	21 1/2	21 3/8	3	



SEE SIGN DETAIL
FOR APPROPRIATE WIDTH

DIMENSIONS (INCHES)				
A	B	C	D	E
2 3/8	3	5 1/4	3/8	1/2
3	3 1/2	6 1/8	1/8	3/8
3 1/4	1 3/8	6 3/8	1/2	3/8
3 1/4	3 3/4	6 3/8	1/2	3/8
3 3/8	13 3/8	6 3/8	1/2	3/8
3 1/2	4	7 1/8	3/8	3/4
3 3/4	4 3/8	7 3/8	3/8	3/4
4	4 3/8	8 3/8	3/8	3/4
4 3/8	5	8 3/8	3/8	3/4
4 1/2	5 3/8	9 3/8	3/8	3/4
4 3/4	5 3/8	9 3/8	3/4	1
5	5 3/4	10 3/8	3/4	1
5 1/4	6	10 3/8	3/4	1 1/8
6	6 3/8	12 3/8	3/4	1 3/8
6 1/2	7 1/2	13 3/8	1	1 3/8
7	8	14 3/8	1 1/8	1 3/8
8	9 3/8	16 1/4	1 1/4	1 3/8

COLORS

ALL THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT AND SYMBOLS ON REFLECTORIZED YELLOW BACKGROUND EXCEPT AS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS

THE SIGN BASE MATERIALS USED FOR THE WARNING SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING, OF THE MINIMUM THICKNESS NOTED.

	24" x 12"	30" x 12"	36" x 12"	48" x 24"
FLAT SHEET ALUMINUM	0.060"	0.060"	0.060"	0.060"
HIGH DENSITY OVERLAP PLYWOOD	1/2"	1/2"	1/2"	1/2"
GALVANIZED FLAT SHEET STEEL	18 GAGE	16 GAGE	14 GAGE	12 GAGE

THE TEXT, BORDER AND SYMBOLS SHALL BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION. THE REFLECTIVE MATERIAL SHALL BE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

TEXT DESIGN

LETTERS, DIGITS, SYMBOLS, SPACING, AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGN PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS

WARNING SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR 'TRAFFIC SIGNS'.

OTHER STDS. REQUIRED:

REVISIONS AND CORRECTIONS

OCT. 31, 1987 - DATE OF ORIGINAL ISSUE
AUG. 08, 1995 - MISC. NOTE CHANGES AND ADDED I.D. NUMBERS TO EACH DETAIL.

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

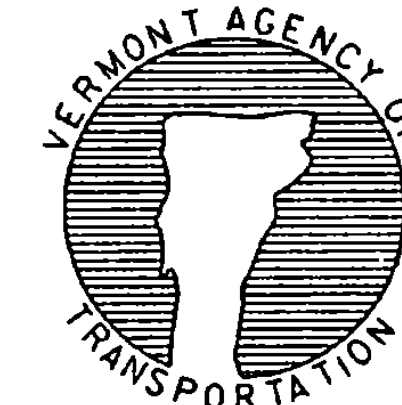
APPROVED

Stephen D. McArthur
DIRECTOR OF ENGINEERING

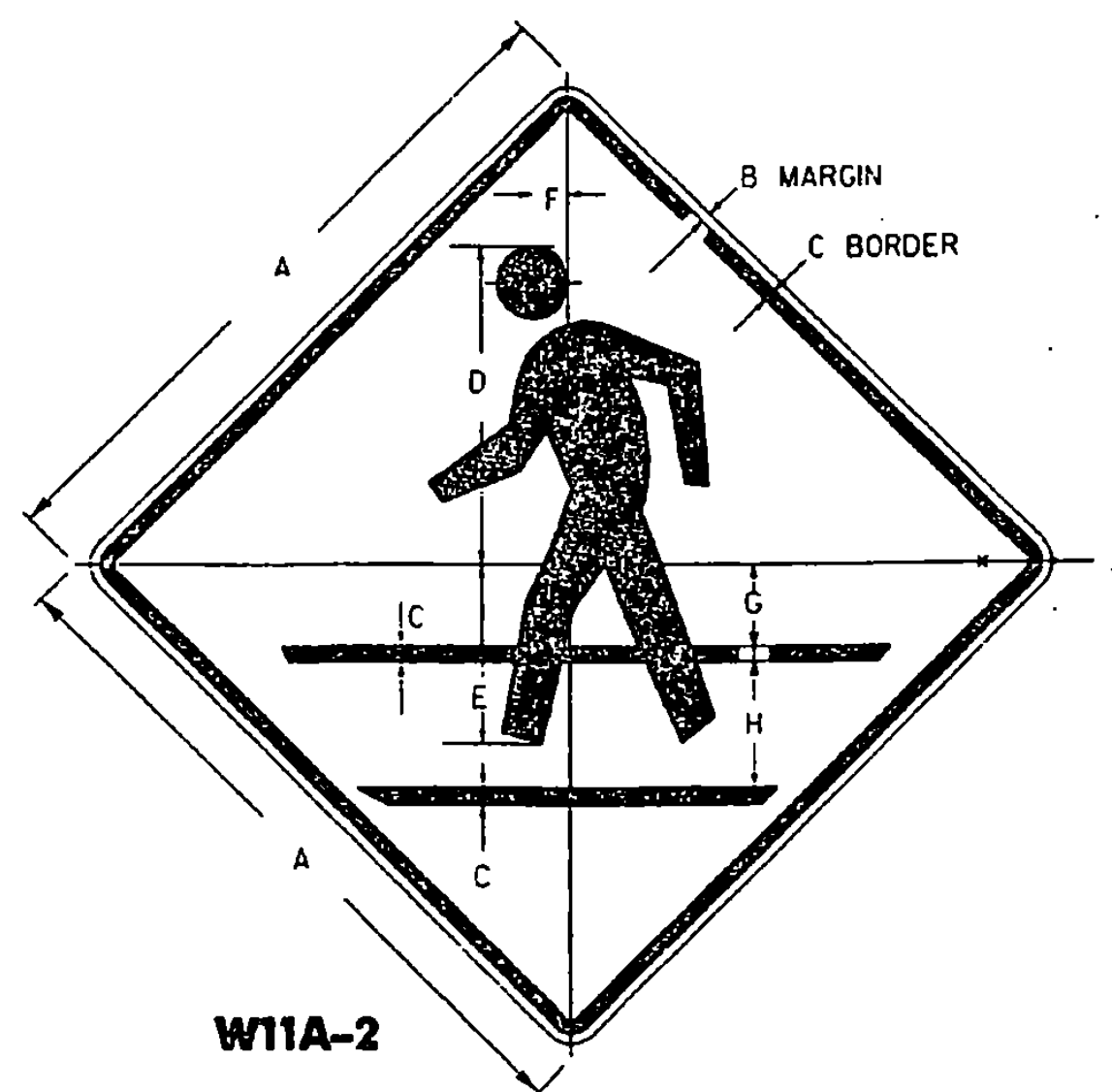
David A. Ross
TRAFFIC AND SAFETY ENGINEER

WARNING SIGNS DETAIL

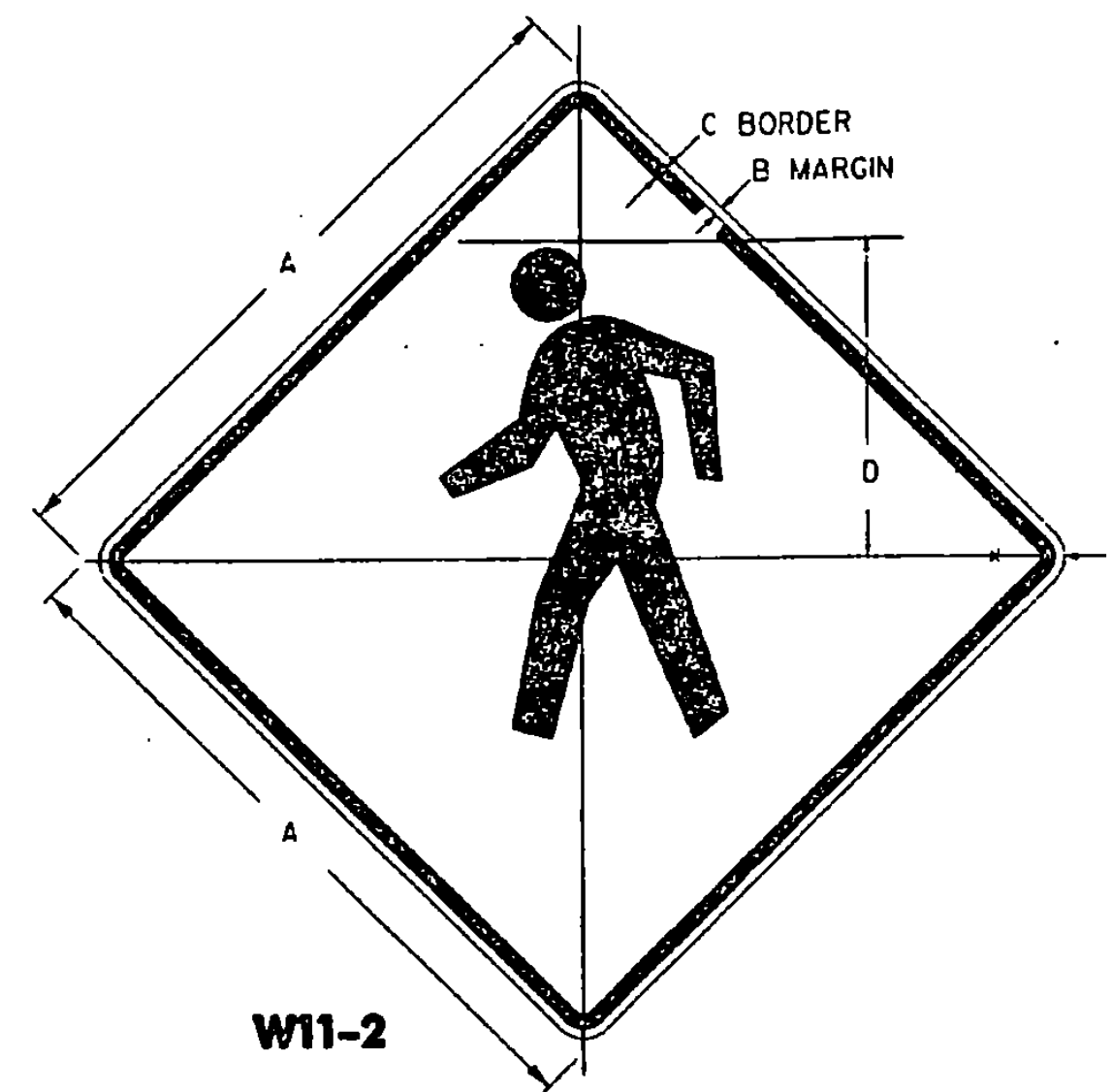
/traf/stc/side5l.dgn : stdel5l.1



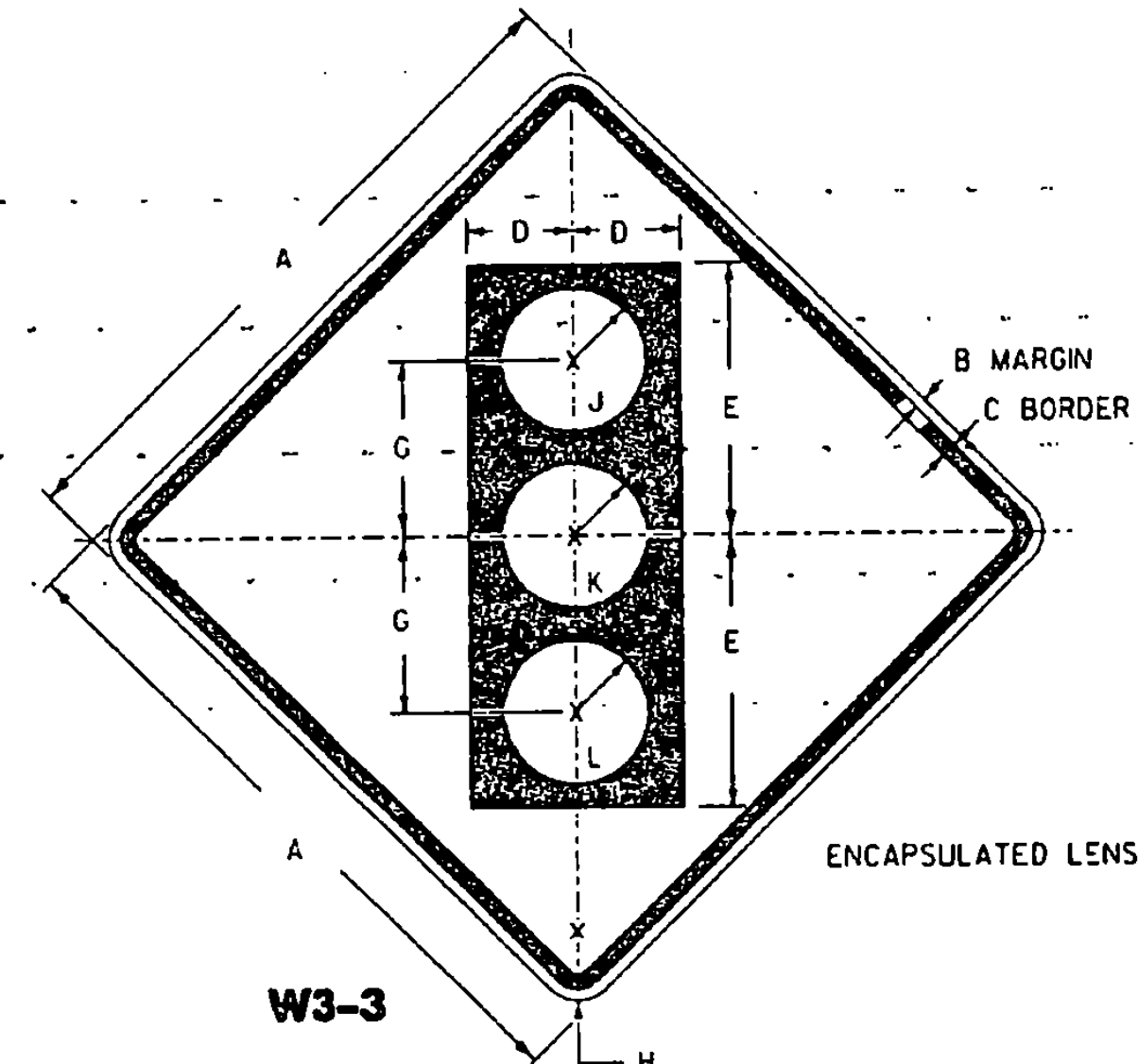
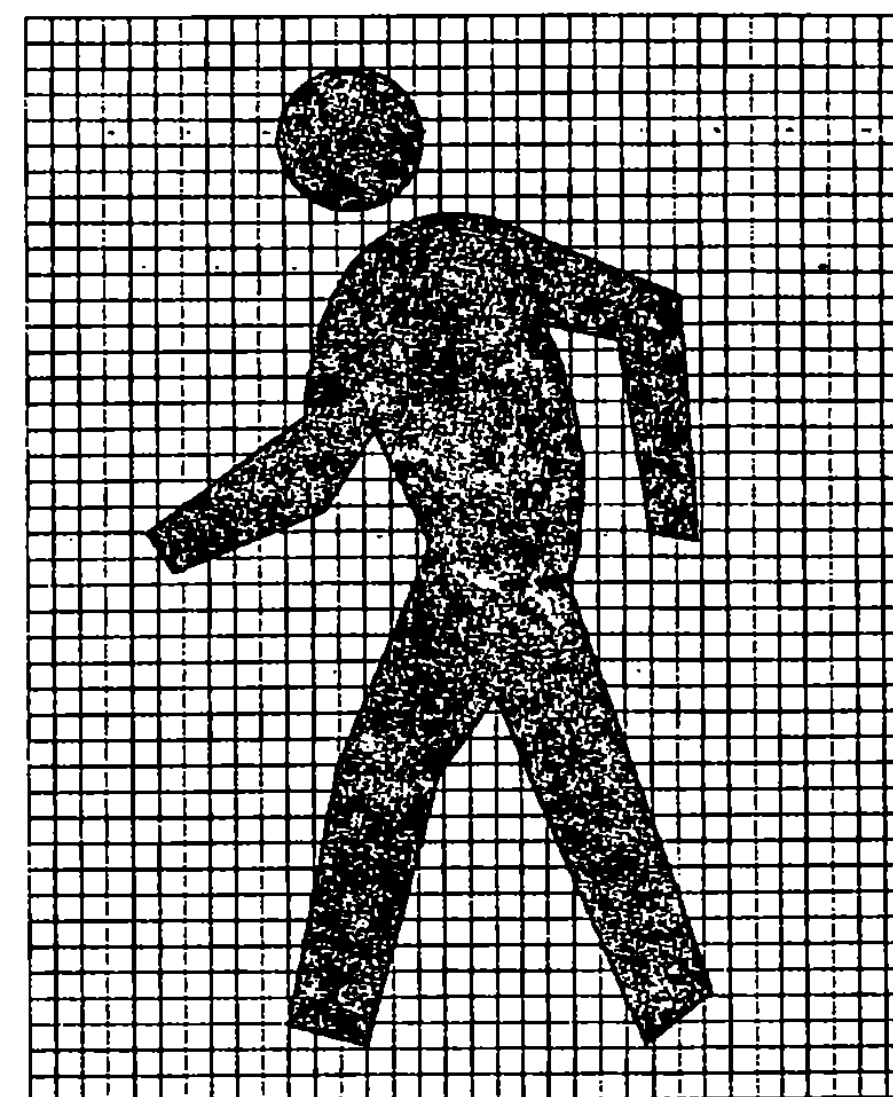
STANDARD
E-151



SIGN	DIMENSIONS (INCHES)								
	A	B	C	D	E	F	G	H	J
BIKE	18	3/8	5/8	8 3/8	4 1/4	3/4	2 3/8	3 3/8	1 1/2
M/N.	24	7/8	3/8	11	6 3/8	1 1/8	3 3/8	4 1/2	1 1/2
STD.	30	1/2	3/4	14	8	1 1/2	<	6	1 1/2
EXPWY.	36	5/8	1 1/8	16 3/4	9 5/8	1 1/8	4 3/4	7 1/4	2 1/8
SPECIAL	48	3/4	1 1/2	22	12 1/2	3 3/8	6 1/4	9 1/2	3

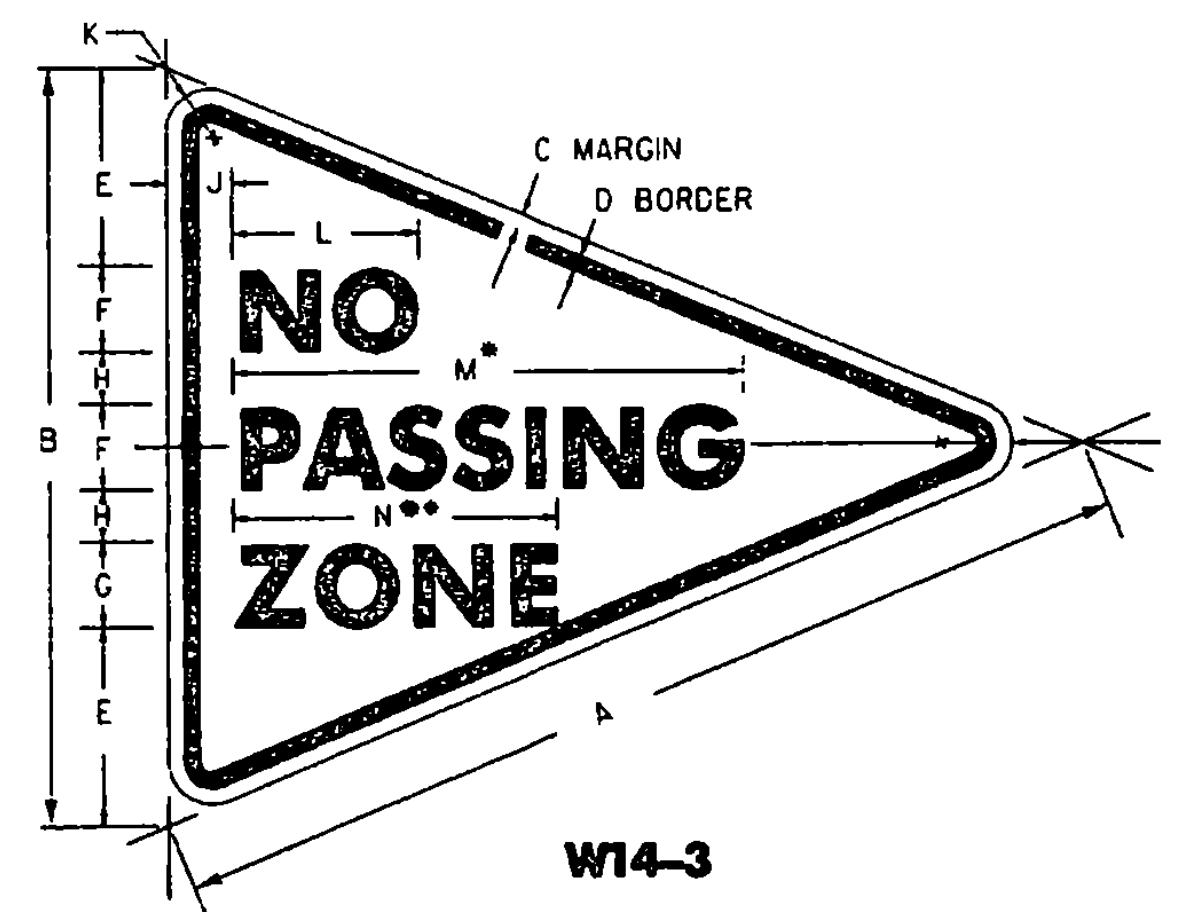
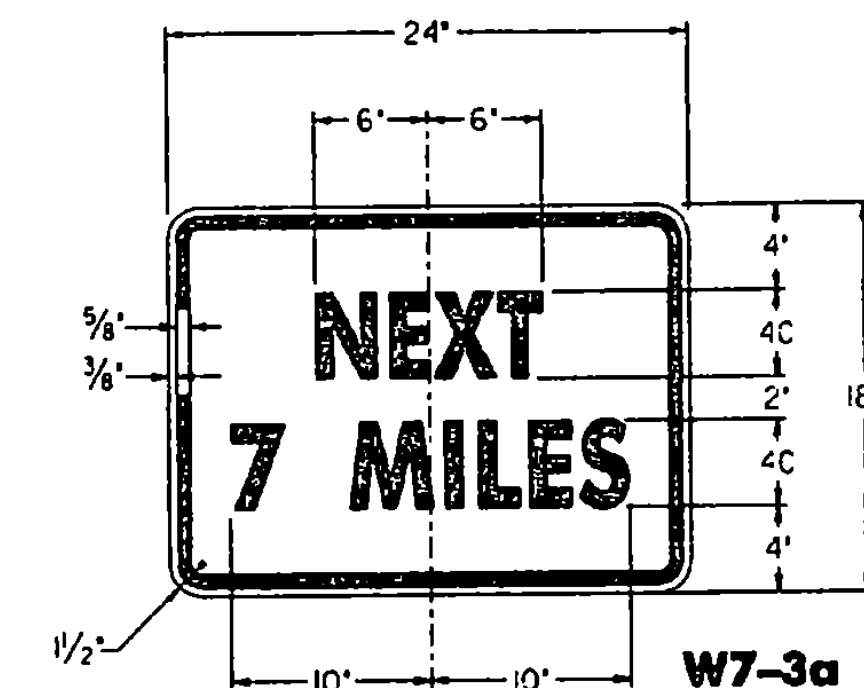
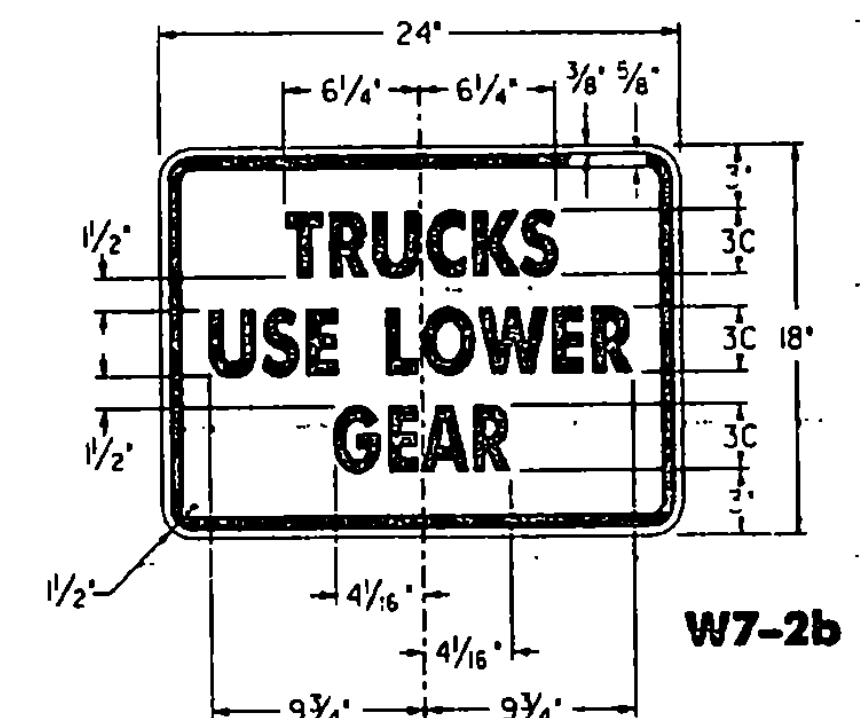


SIGN	DIMENSIONS (INCHES)				
	A	B	C	D	E
MIN.	24	$\frac{3}{8}$	$\frac{5}{8}$	11	$1\frac{1}{2}$
STD.	30	$\frac{1}{2}$	$\frac{3}{4}$	$13\frac{1}{2}$	$1\frac{7}{8}$
EXPWY.	36	$\frac{5}{8}$	$\frac{7}{8}$	16	$2\frac{1}{4}$
SPECIAL	48	$\frac{3}{4}$	$1\frac{1}{4}$	22	3



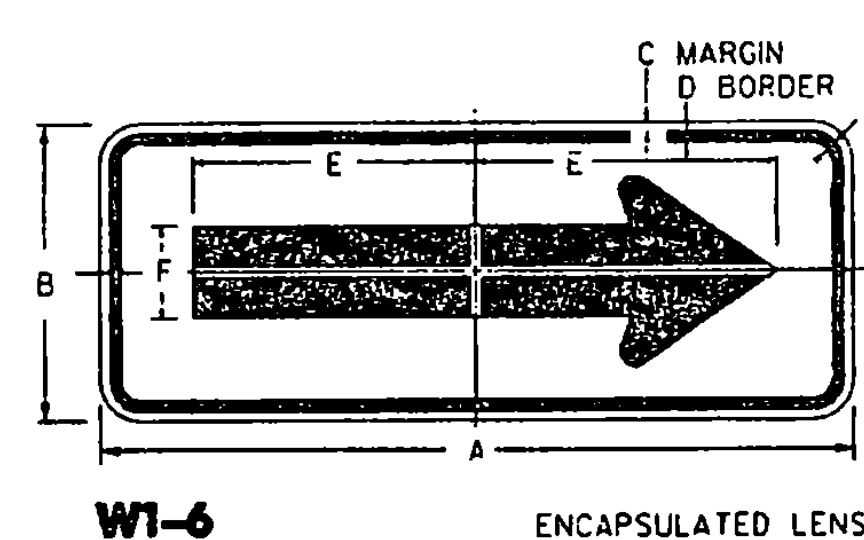
SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
BIKE	18	$\frac{3}{8}$	$\frac{5}{8}$	3	8	$2\frac{1}{4}$	5	$1\frac{1}{2}$
MIN.	30	$\frac{1}{2}$	$\frac{3}{4}$	5	$13\frac{3}{4}$	$3\frac{3}{4}$	$8\frac{3}{4}$	$1\frac{1}{2}$
STD. & VIN.	36	$\frac{5}{8}$	$\frac{7}{8}$	$5\frac{3}{4}$	$15\frac{3}{4}$	$4\frac{1}{4}$	10	$2\frac{1}{2}$
SPECIAL	48	$\frac{3}{4}$	$1\frac{1}{4}$	$7\frac{1}{2}$	20	5	$12\frac{1}{2}$	3

ADDITIONAL COLORS : J - REFL. RED
K - REFL. YELLOW
L - REFL. GREEN

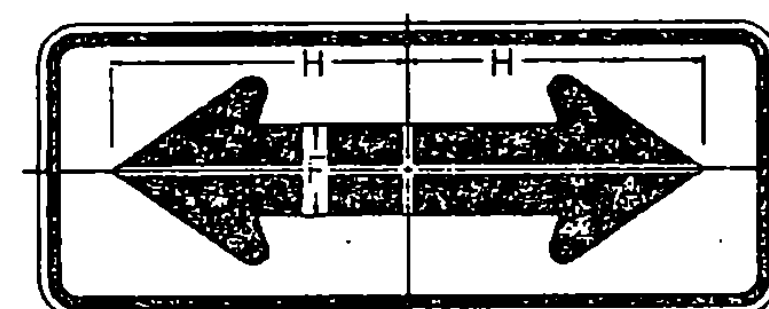


SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	
MIN.	40	30	1/2	3/4	7/16	40	4C	1 1/4	2 1/2	1 1/8	6 1/2	2 2 1/2	11 1/4	
STD.	48	36	5/8	7/8	8 1/2	50	5C	2	3	2 1/4	8	2 6 1/2	12 1/2	
SPECIAL	64	48	3/4	1 1/4	12	60	6C	3	4	3	10 3/4	33 1/4	16 3/4	

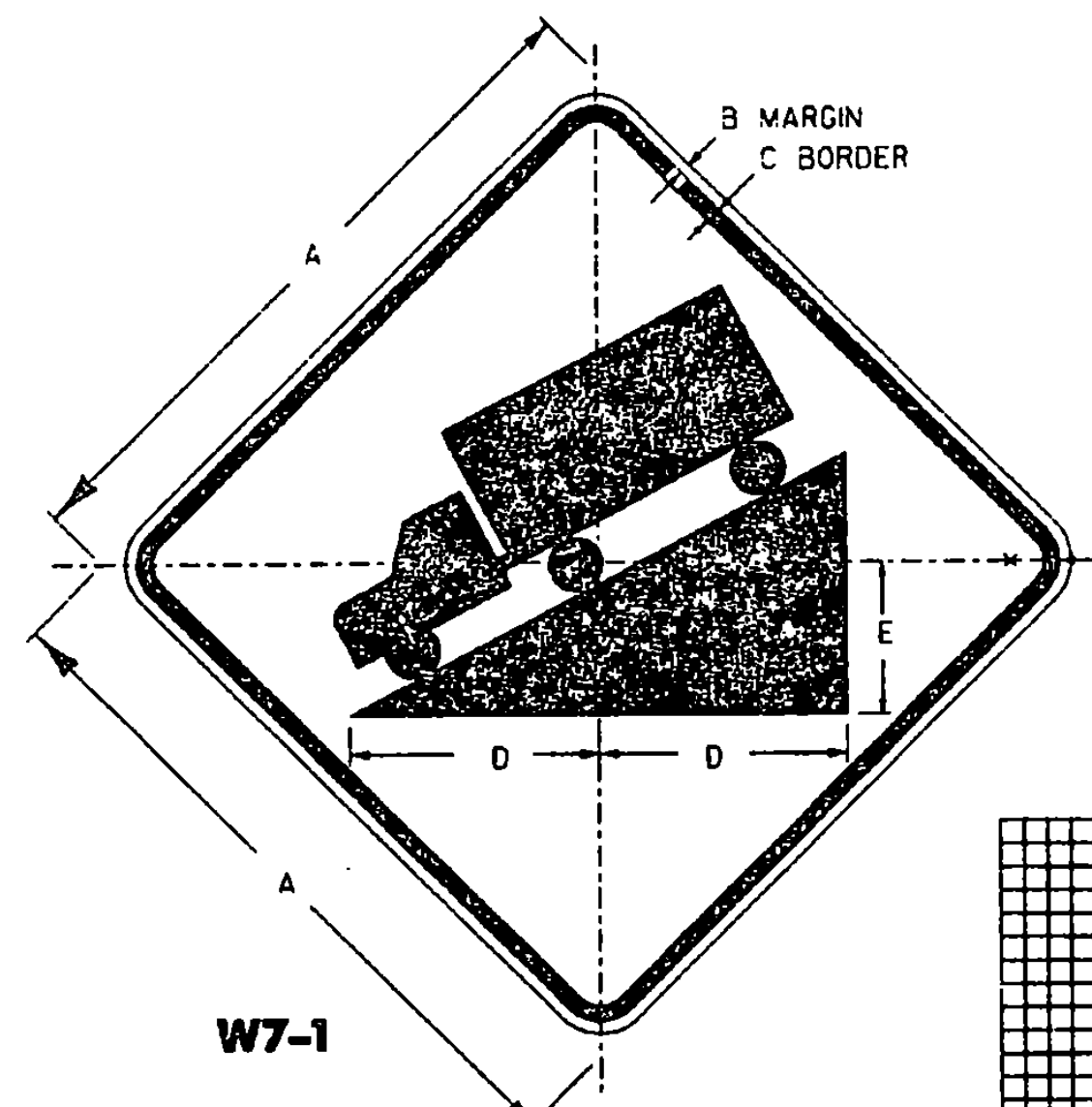
* FOR STD. SIZE REDUCE SPACING 35 %
* FOR STD. SIZE REDUCE SPACING 20 %



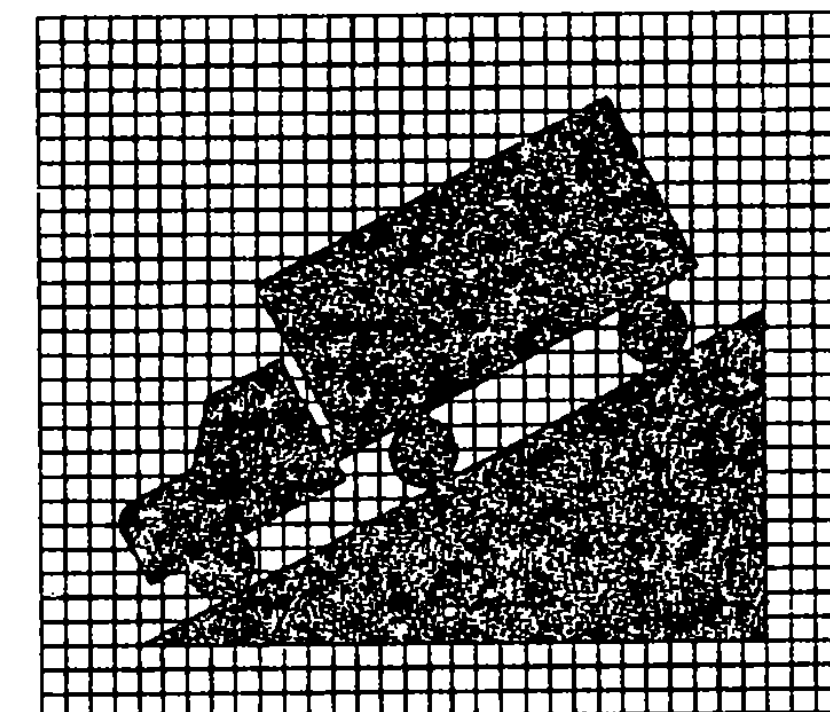
SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
BIKE	24	12	$\frac{3}{8}$	$\frac{3}{8}$	9 $\frac{3}{8}$	3 $\frac{1}{4}$	1 $\frac{1}{2}$	10 $\frac{3}{8}$
MIN.	36	18	$\frac{3}{8}$	$\frac{3}{8}$	14 $\frac{3}{8}$	5	1 $\frac{1}{2}$	15 $\frac{3}{8}$
STD.	48	24	$\frac{1}{2}$	$\frac{3}{4}$	19 $\frac{1}{2}$	6 $\frac{1}{2}$	1 $\frac{3}{8}$	20 $\frac{1}{2}$
SPECIAL	60	30	$\frac{3}{8}$	$\frac{1}{8}$	24 $\frac{3}{8}$	8	2 $\frac{1}{4}$	25 $\frac{3}{8}$



W1-7 ENCAPSULATED LENS



SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
MIN.	24	$\frac{3}{8}$	$\frac{5}{8}$	$8\frac{3}{4}$	6	$1\frac{1}{2}$
STD.	30	$\frac{1}{2}$	$\frac{3}{4}$	11	$7\frac{1}{2}$	$1\frac{7}{8}$
EXPWY.	36	$\frac{5}{8}$	$\frac{7}{8}$	$13\frac{1}{4}$	9	$2\frac{1}{4}$
FWY.	48	$\frac{3}{4}$	$1\frac{1}{4}$	$17\frac{1}{2}$	12	3



ENCAPSULATED LENS

COLORS

ALL THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT AND SYMBOLS ON REFLECTORIZED YELLOW BACKGROUND EXCEPT AS OTHERWISE NOTED. THE COLORS SHALL CONFORM WITH THE COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

MATERIALS

THE SIGN BASE MATERIALS USED FOR THE WARNING SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING, OF THE MINIMUM THICKNESS NOTED.

				48" x 24"
				48" x 36"
	24" x 12"	36" x 18"		48" x 48"
	24" x 24"	40" x 30"		60" x 30"
18" x 18"	30" x 30"	36" x 36"		64" x 48"
0.060" 1/2	0.080" 1/2	0.100" 5/8		0.125" 3/8
18 GAGE	16 GAGE	14 GAGE		12 GAGE

FLAT SHEET ALUMINUM
HIGH DENSITY OVERLAID PLYWOOD
GALVANIZED FLAT SHEET STEEL

THE TEXT, BORDER AND SYMBOLS SHALL BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION. THE REFLECTIVE MATERIAL SHALL BE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

TEXT DESIGN

LETTERS, DIGITS, SYMBOLS, SPACINGS, AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGNS PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. SEE STANDARD SHEET E-150 FOR ARROWHEAD DETAILS.

SPECIFICATIONS

WARNING SIGNS SHALL MEET THE VERMONT STANDARD SPECIFICATIONS FOR "TRAFFIC SIGNS".

**OTHER STDS. E-150
REQUIRED:**



STANDARD E-15 2

REVISIONS AND CORRECTIONS

OCT. 30, 1987 - DATE OF ORIGINAL ISSUE
JANUARY 1991- 4 X 2 ARROW ENCAPSULATED LENS &
40 X 30 ADDED
OCT. 21, 1992 - PENNANT SIZE ADDED
AUG. 08, 1995 - DELETED & ADDED SIGN DETAILS AND
ADDED I.D. NUMBER TO EACH DETAIL

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

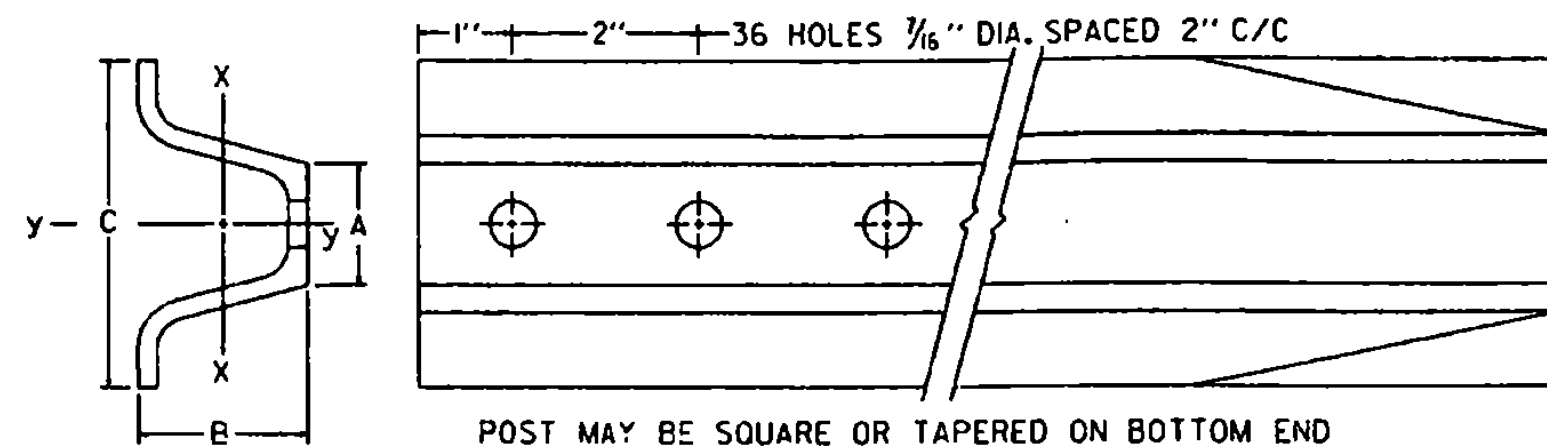
APPROVED

Ernest S. MacArthur
DIRECTOR OF ENGINEERING

David A. Ross
TRAFFIC AND SAFETY ENGINEER

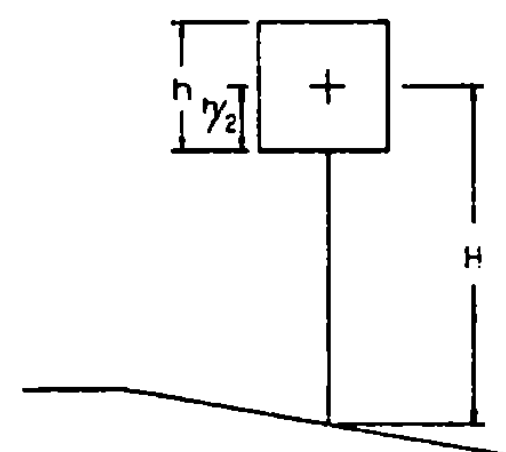
WARNING SIGN DETAILS

```
/traf/std/stcel52.dgn : stcel52.i
```



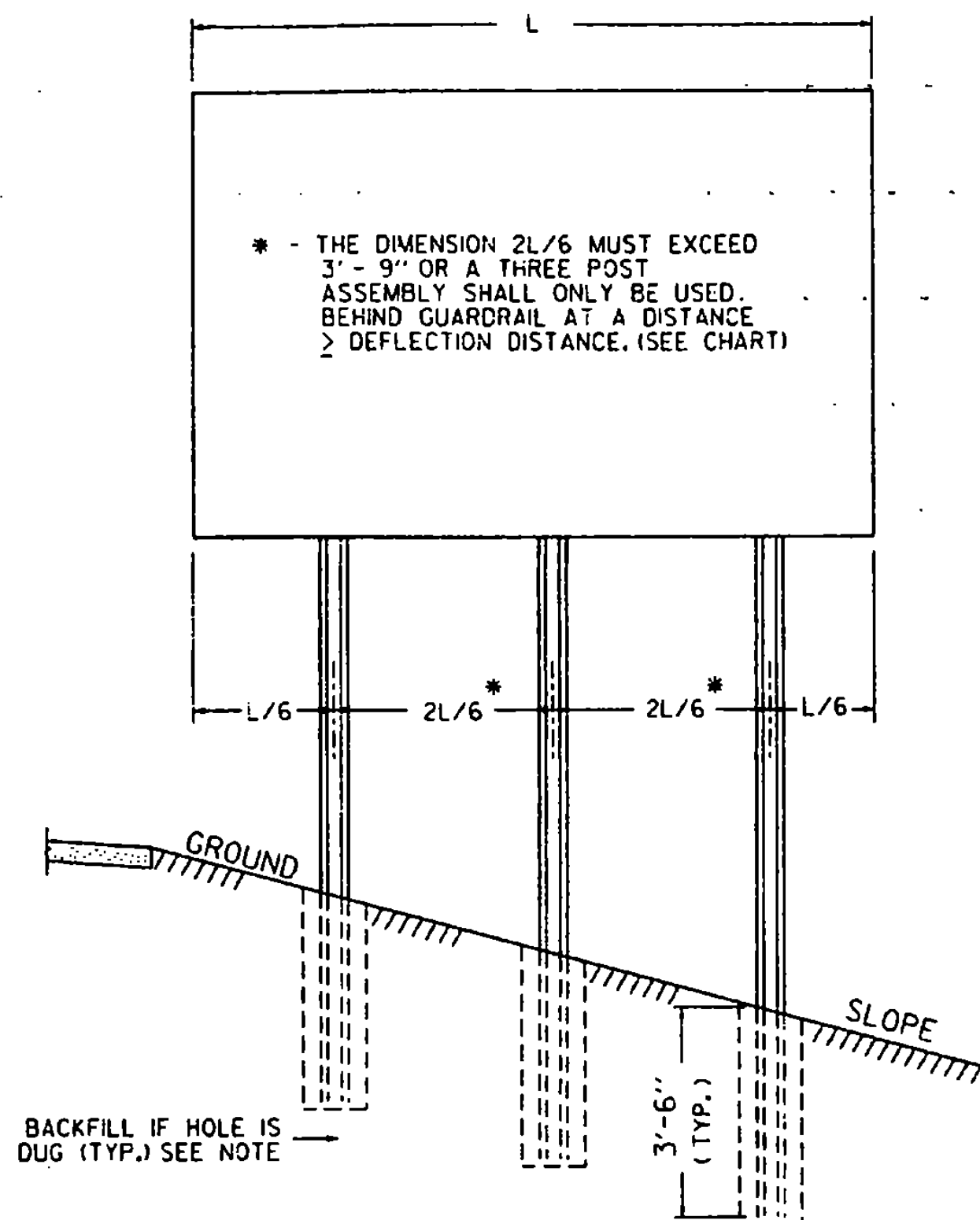
POST SIZE (LB/FT.)	DIMENSIONS			SECTION MODULUS, X-X
	A	B	C	
2	1 1/2"	1 3/4"	3 1/8"	0.225 IN. ³
3	1 5/8"	1 7/8"	3 1/2"	0.403 IN. ³

SIMILAR DIMENSIONS ARE ACCEPTABLE, HOWEVER
SECTION MODULUS VALUES SHALL NOT BE EXCEEDED.



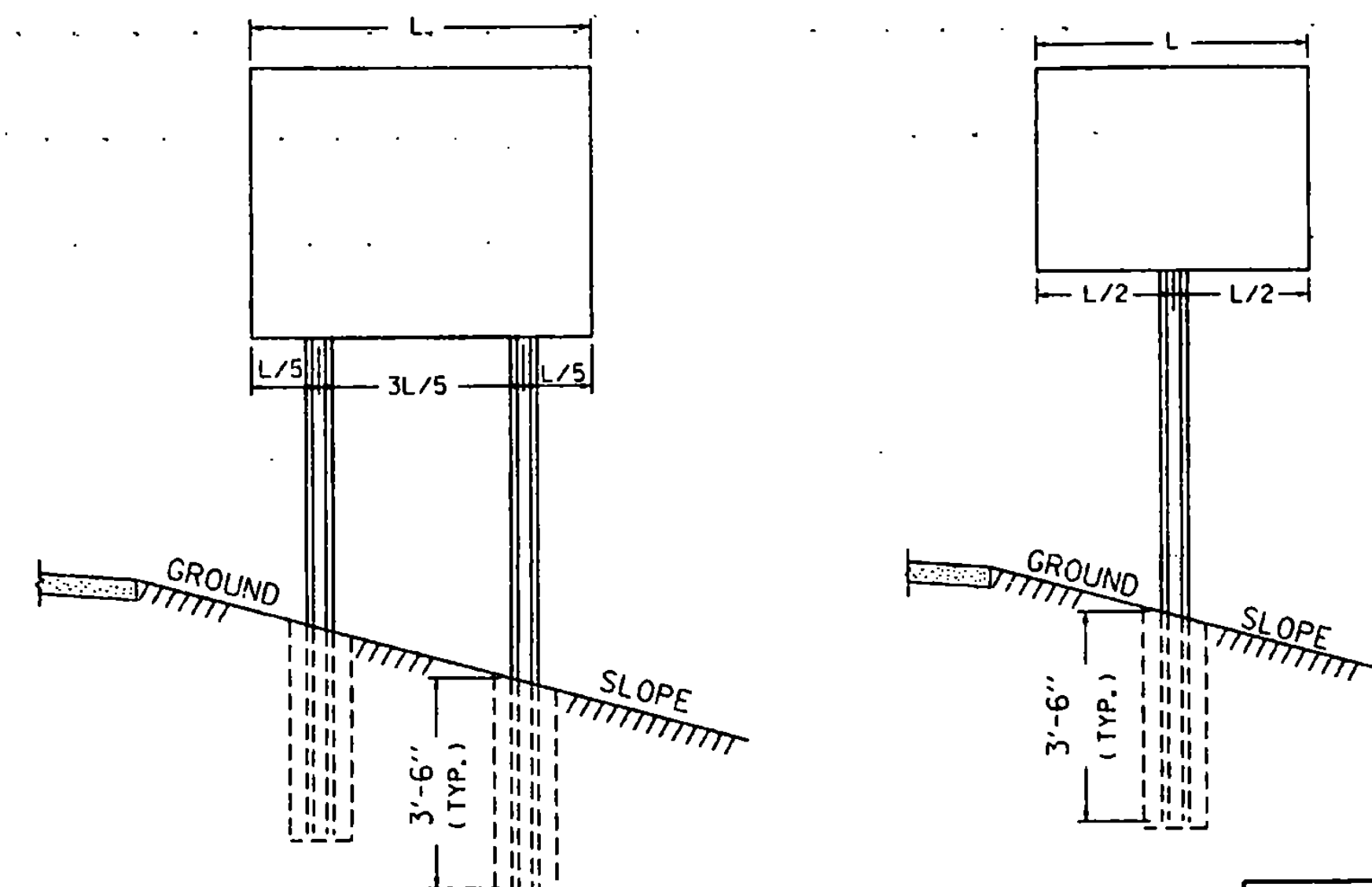
POST SELECTION CHART		
SIGN AREA (FT ²) x H (FT) ≤ SV (SELECTION VALUE)		
POST SIZE	Sv	DESIGN CRITERIA
2 LB/FT. (ONE POST INSTALLATION)	32	WIND SPEED = 60 MPH (10-YEAR MEAN RECURRENCE INTERVAL)
2 LB/FT. (TWO POST INSTALLATION)	62	WIND PRESSURE = 13 PSF
3 LB/FT.	107	STEEL MIN YIELD F _y = 50,000 PSI ALLOWABLE STRESS = (1.4) 0.60 F _y

SINGULAR 2 LB./FT. POSTS SHALL ONLY TO BE USED IN URBAN AREAS.

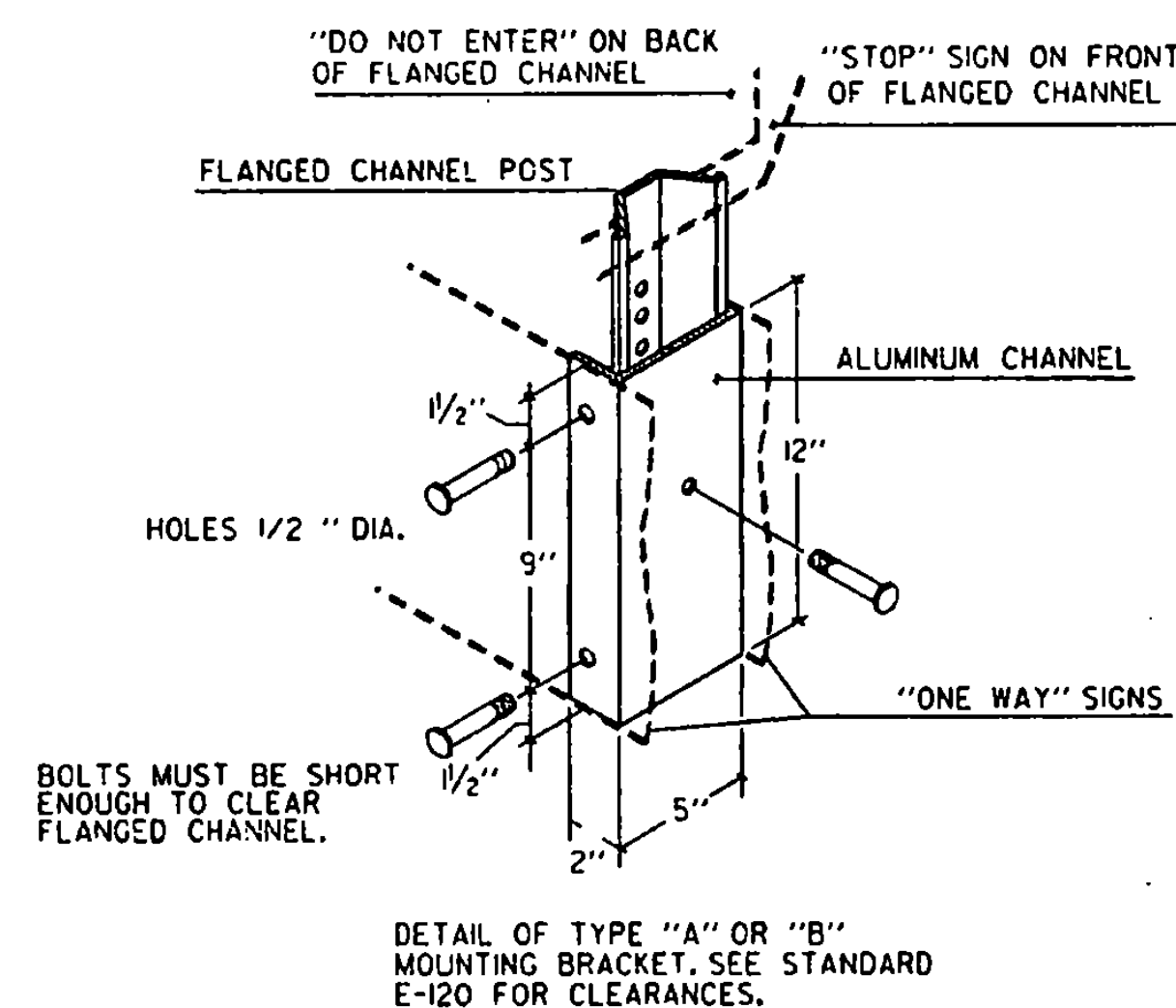


MULTI-POST INSTALLATIONS

WHEN SIGN POSTS ARE INSTALLED WITH A POST SPACING OF LESS THAN 8 FEET, POST SIZES MUST BE SELECTED TO INSURE THAT WHEN ACTING TOGETHER THE POSTS DO NOT CREATE A HAZARD. REFER TO V.A.O.T. SIGN POST DESIGN GUIDELINE FOR ADDITIONAL DETAILS.

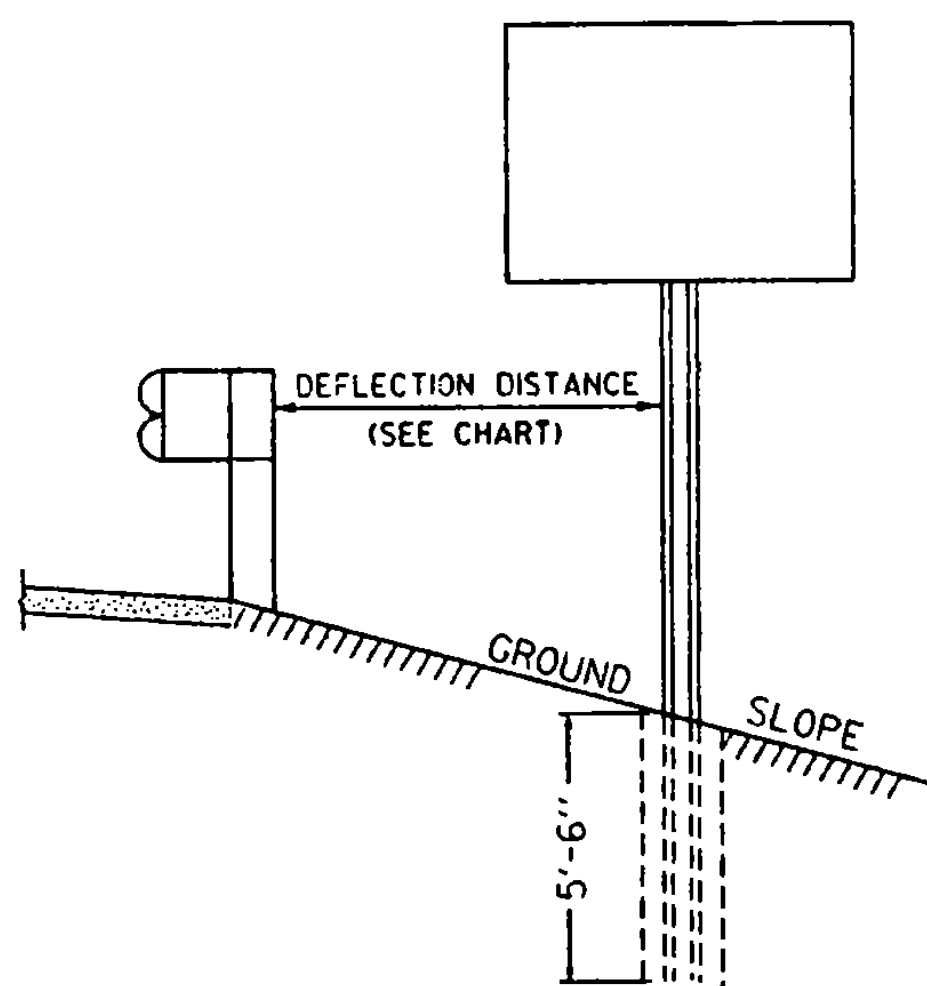


POST SPACING DETAILS



GUARDRAIL DEFLECTION CHART (PER AASHTO - ROADSIDE DESIGN GUIDE - 1988)		
TYPE	GR POST SPACING	DEFLECTION
THREE CABLE W/STEEL POSTS	16' - 0"	12'
W/WOODEN POSTS	12' - 6"	12'
W-BEAM	12' - 6"	7'
W/STRONG POST	6' - 3"	3'
BOX BEAM	6' - 0"	5'
THREE BEAM	12' - 6"	4'
W/STRONG POST	6' - 3"	2'

THIS CHART LISTS THE THEORETICAL DEFLECTION DISTANCE UPON IMPACT OF VARIOUS GUARDRAIL WITH DIFFERENT TYPES AND SPACING OF POSTS.



WHEN USING FLANGED CHANNEL POSTS ON STEEP SLOPES (10N 2 OR STEEPER FILL SLOPES BEHIND GUARDRAIL), ADD 2' EMBEDMENT TO THE POST LENGTH TO GIVE THE ASSEMBLY MORE STABILITY. HOWEVER IF SIGN POST IS LOCATED INSIDE THE DEFLECTION DISTANCE, THE SIGN POST SHALL BE SET AT A DEPTH OF 3' - 6'.

GENERAL NOTES

CONSTRUCTION METHODS - POSTS MAY BE DRIVEN OR SET IN A DUG HOLE AND BACKFILLED. IF DRIVEN, A DRIVING CAP SHALL BE USED. THE DUG HOLE INSTALLATION SHALL BE USED IN AREAS OF POOR SOIL CONDITIONS OR AS DIRECTED BY THE RESIDENT ENGINEER. BACKFILL SHALL BE COMPACTED AS DIRECTED BY THE RESIDENT ENGINEER.

IN AREAS WHERE LEDGE ROCK IS ENCOUNTERED, POSTS WILL BE SET IN A HOLE WITH 2' CLEARANCE AND GROUTED WITH TYPE 4 MORTAR 24" BELOW THE SURFACE OF THE SOLID ROCK. UNLESS THE POSTS PENETRATE THE GROUND A MINIMUM OF 3' - 6'. THE PORTION OF THE POST IN CONTACT WITH THE MORTAR SHALL BE COATED WITH AN APPROVED COATING.

SIGN CLEARANCES - HORIZONTAL AND VERTICAL SIGN CLEARANCES SHALL BE SHOWN ON THE PLANS OR THE APPROPRIATE STD. SHEETS.

SINGLE POST INSTALLATIONS SHALL BE LIMITED TO A SIGN AREA OF 12-1/2 SQ. FT. OR LESS.

OTHER STDS.
REQUIRED:

REVISIONS AND CORRECTIONS

SEP. 10, 1987 - DATE OF ORIGINAL ISSUE
MAR. 01, 1988 - FHWA REVIEW COMMENTS
OCT. 21, 1992 - ADDED DETAILS, REVISED NOTES & REVISED TITLE BLOCK
AUG. 18, 1995 - DELETION OF 2.5 #/FT. POST AND TWO-RAIL ALUMINUM. ADDED ADDITIONAL NOTE.

APPROVED FOR THIS PROJECT
AND/OR DESIGN IMPLEMENTATION.
FHWA FINAL APPROVAL PENDING.

APPROVED

David H. McArthur
DIRECTOR OF ENGINEERING

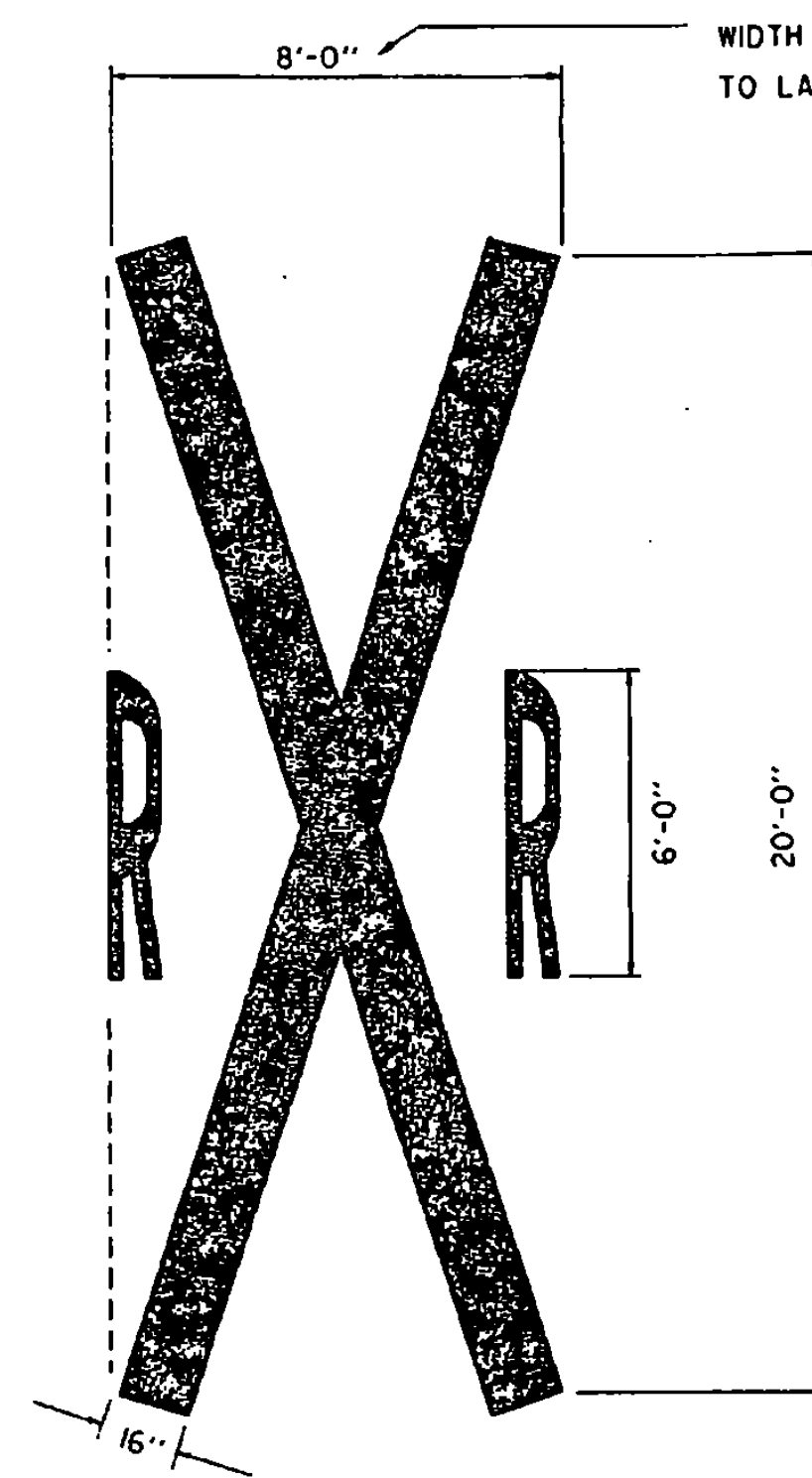
David O. Burr
TRAFFIC AND SAFETY ENGINEER

FLANGED CHANNEL STEEL SIGN POST

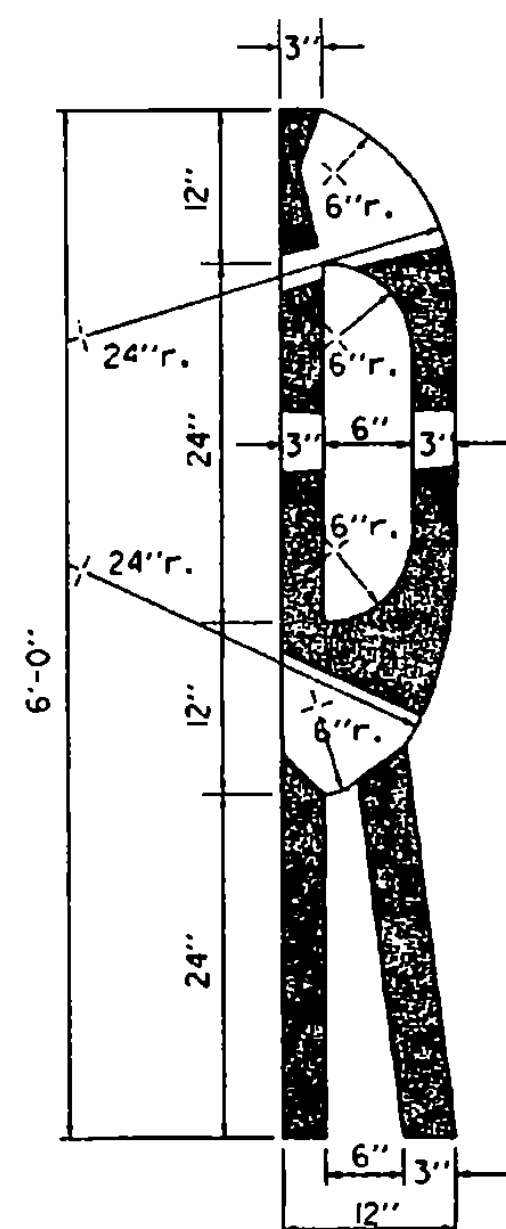


STANDARD
E-160

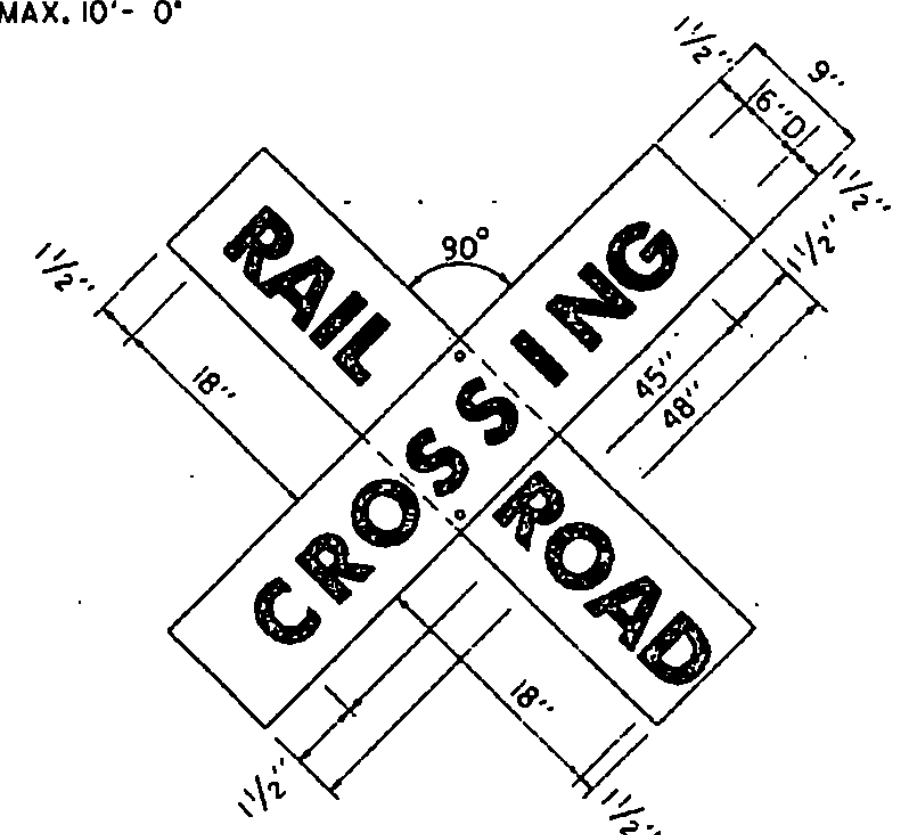
/traf/std/stdel60.dgn : stdel60.l



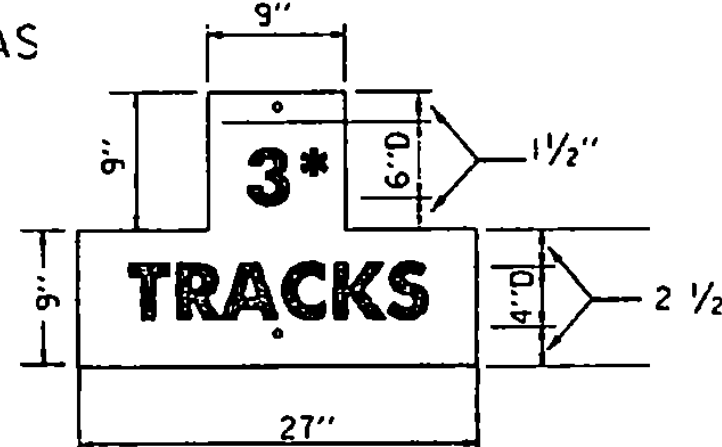
PAVEMENT MARKINGS



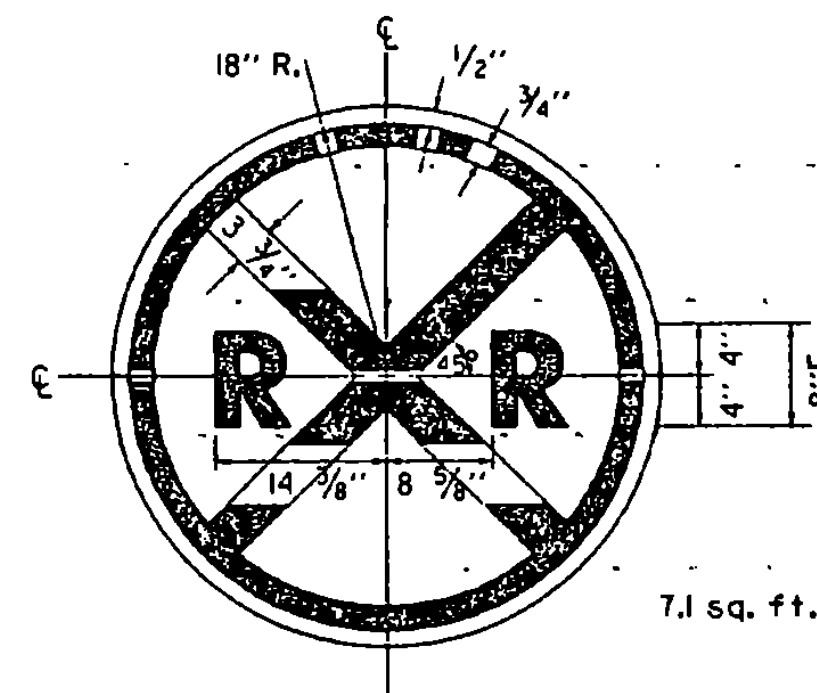
WIDTH MAY VARY ACCORDING TO LANE WIDTH, MAX. 10'-0"



* NUMBER AS REQUIRED



RAILROAD CROSSING SIGN (CROSSBUCK)

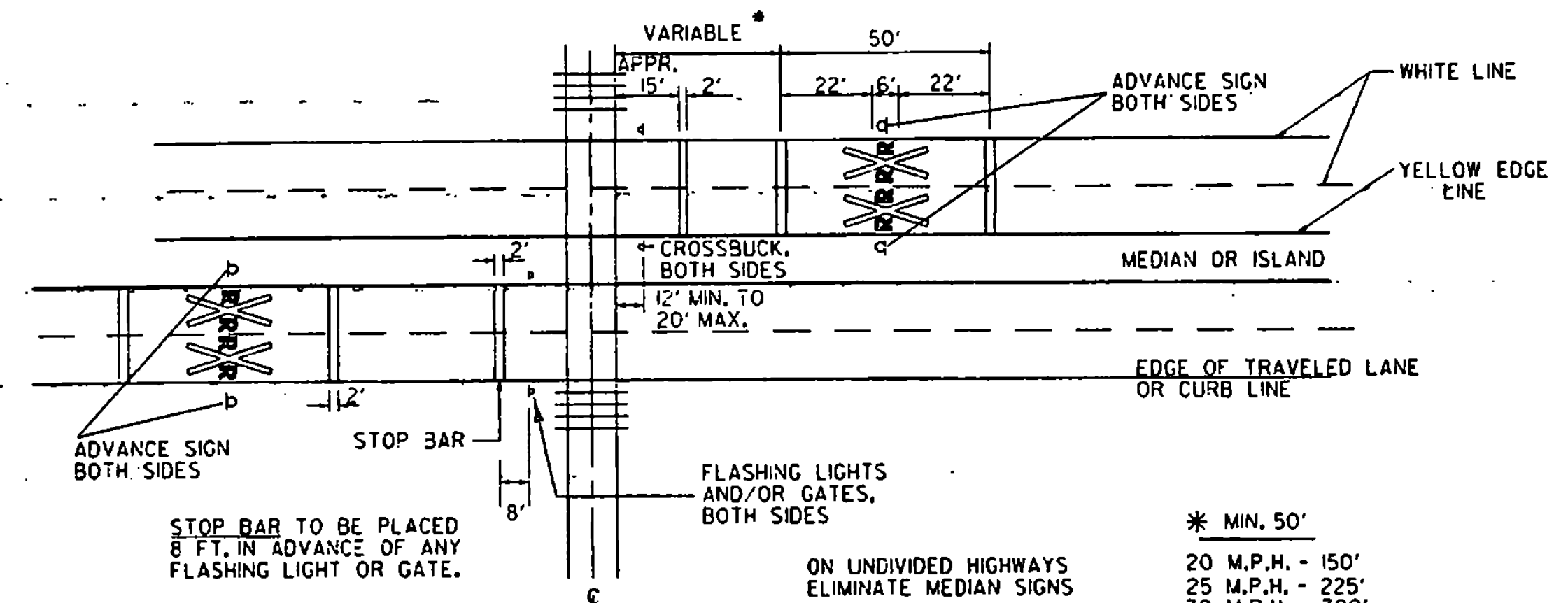


ADVANCE SIGN

SIGN MATERIALS AND COLORS

CROSSBUCKS SHALL BE EITHER 3/4" HIGH DENSITY OVERLAY PLYWOOD OR 0.100" ALUMINUM W/SILVER OR WHITE ENCAPSULATED LENS SHEETING, APPLIED TO BOTH SIDES OF SIGN PANELS.

ADVANCE SIGN SHALL BE 0.125" ALUMINUM W/YELLOW REFLECTIVE SHEETING. MULTI-TRACK SIGN SHALL BE 0.06" ALUMINUM W/SILVER OR WHITE REFLECTIVE SHEETING. TEXT, STRIPES AND BORDERS SHALL BE EITHER BLACK PAINTED OR LETTERING FILM.

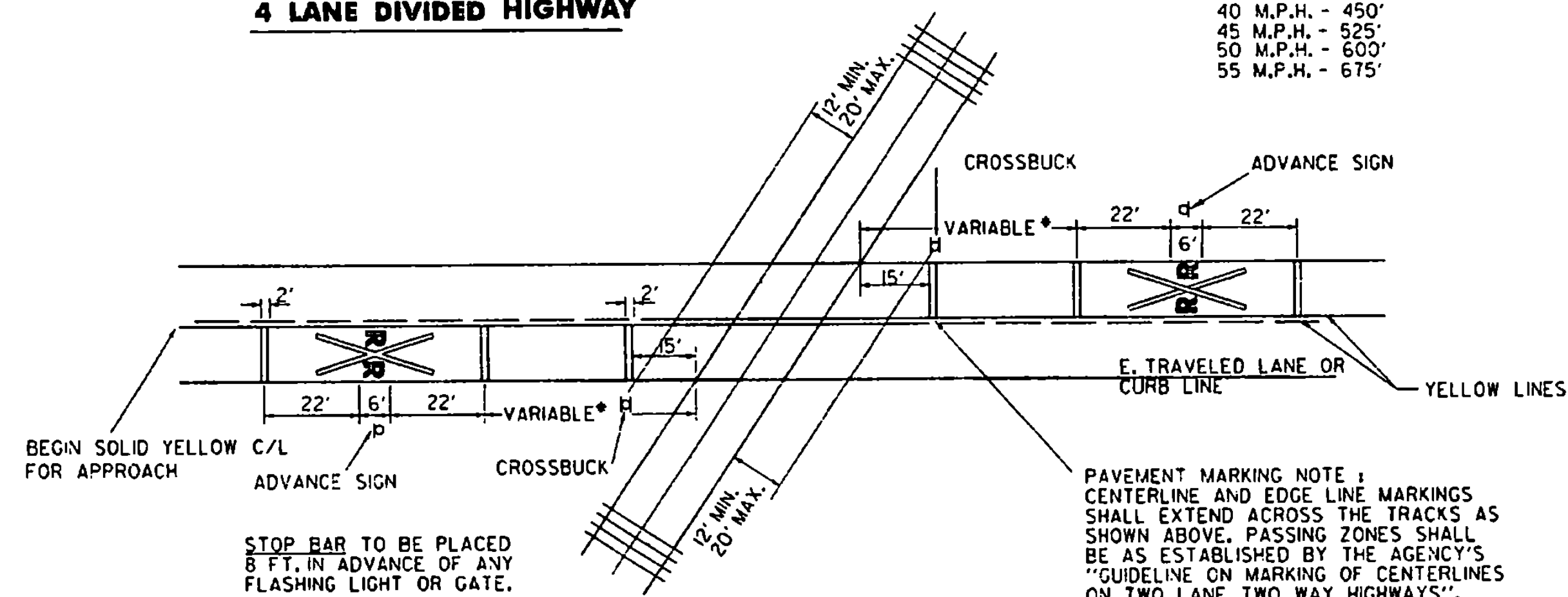


4 LANE DIVIDED HIGHWAY

* MIN. 50'

ON UNDIVIDED HIGHWAYS ELIMINATE MEDIAN SIGNS

20 M.P.H. - 150'
25 M.P.H. - 225'
30 M.P.H. - 300'
35 M.P.H. - 375'
40 M.P.H. - 450'
45 M.P.H. - 525'
50 M.P.H. - 600'
55 M.P.H. - 675'



2 LANE HIGHWAY PAVED

ALSO APPLICABLE TO UNPAVED ROADS FOR PLACEMENT OF CROSSBUCKS AND ADVANCE SIGNS

GENERAL NOTES

1. PAVEMENT MARKINGS

THESE MARKINGS SHALL BE PLACED, IF PHYSICALLY FEASIBLE, ON ALL PAVED APPROACHES TO RAILROAD CROSSINGS, WHERE THERE ARE SIGNALS AND/OR AUTOMATIC GATE AND AT ALL OTHER CROSSINGS WHERE THE PREVAILING SPEED OF HIGHWAY TRAFFIC IS 40 M.P.H. OR GREATER.

THE MARKINGS SHALL ALSO BE PLACED AT CROSSINGS WHERE ENGINEERING STUDIES INDICATE THERE IS A SIGNIFICANT POTENTIAL CONFLICT BETWEEN VEHICLES AND TRAINS. ALL MARKINGS SHALL BE WHITE EXCEPT FOR MEDIAN EDGELINES AND CENTERLINE ON 2 LANE ROADS WHICH SHALL BE YELLOW. THE RAILROAD CROSSING SYMBOL SHALL CONSIST OF THE "X" FLANKED BY TWO "R"'S AND THREE 24" STOP BARS; TWO BRACKETING THE "X", ONE AT THE CROSSING, AT MINOR CROSSINGS OR IN URBAN AREAS, THESE MARKINGS MAY BE OMITTED IF AN ENGINEERING STUDY INDICATES THAT OTHER DEVICES INSTALLED PROVIDE SUITABLE PROTECTION.

2. CROSSBUCKS

WHERE PHYSICALLY FEASIBLE AND VISIBLE TO APPROACHING TRAFFIC, THESE SIGNS SHALL BE INSTALLED ON THE RIGHT-HAND SIDE OF THE ROADWAY FOR EACH APPROACH TO THE CROSSING. MULTI-LANE DIVIDED HIGHWAYS SHALL HAVE SIGNS MOUNTED ON BOTH SIDES OF THE ROADWAY APPROACHES.

3. AUXILIARY SIGNS

A "NUMBER OF TRACKS" SIGN SHALL BE USED WHERE THERE ARE TWO OR MORE TRACKS AT THE CROSSING.

4. ADVANCE WARNING SIGNS

RAILROAD ADVANCE WARNING SIGNS WILL BE PROVIDED AND LOCATED IN ACCORDANCE WITH SECTION 8B-3 OF MUTCD

THIS SHEET IS NOT TO SCALE

OTHER STDs E-160 REQUIRED

REVISIONS AND CORRECTIONS

SEPT. 10, 1987 - DATE OF ORIGINAL ISSUE
JAN. 12, 1988 - REVISE LOCATION OF ADVANCE SIGNS
AUG. 18, 1995 - DELETED ALUMINUM 3" X 3" TUBE

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FHWA FINAL APPROVAL PENDING.

APPROVED

Samuel D. McArthur
DIRECTOR OF ENGINEERING

David O. Ross
TRAFFIC AND SAFETY ENGINEER

RAILROAD CROSSING SIGNS AND PAVEMENT MARKINGS

/traf/std/std90.dgn/std90.i



STANDARD E-190