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STATE OF VERMONT

AGENCY OF TRANSPORTATION



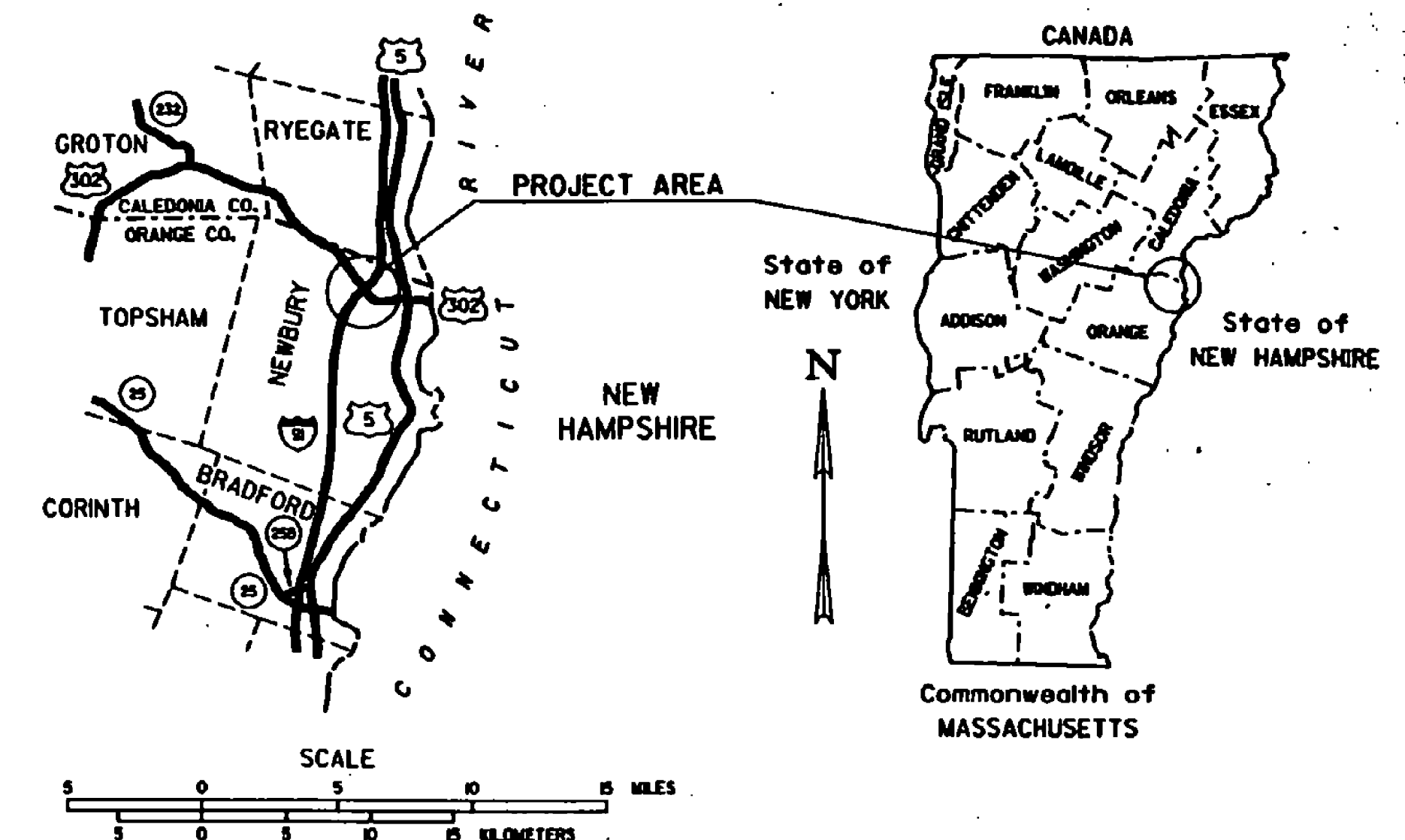
PROPOSED IMPROVEMENT

TOWN OF NEWBURY

COUNTY OF ORANGE

WORK PERFORMED UNDER THIS PROJECT INCLUDES REPAIRING AND RESURFACING OF THE EXISTING ROADWAY, PLACING NEW SIGNS, AND PLACING NEW PAVEMENT MARKINGS.

NEWBURY F 026-1(3)S	US. 302	MM 1.675 - 1.879	0.204 MILES	ADT=3850
NEWBURY F 026-2(3)S	US. 302	MM 1.879 - 2.132	0.253 MILES	ADT=3850



Date MAY 5 1988

PKE INDUSTRIES, INC.

Contractor

Roger D. Martin

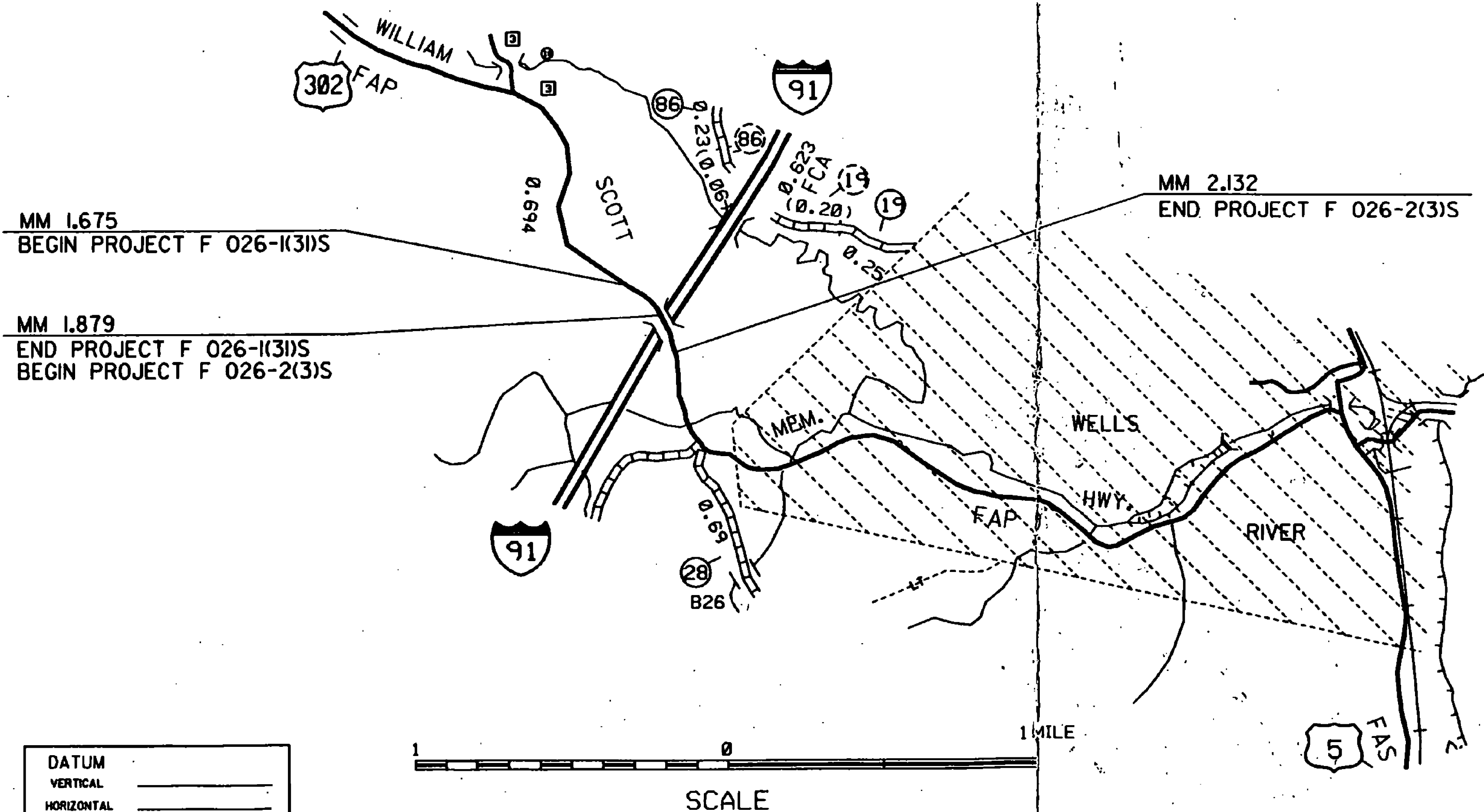
Signature

Roger D. Martin, Vice President

Title

John C. Campbell

Transportation Secretary's Signature



CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWN LINE	---
LIMITS OF ACCESS	---
POINT OF ACCESS	X
FENCE LINE	---
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	---
HORIZONTAL	---

CONTRACT PLANS

THESE PLANS DO NOT REFLECT CHANGES MADE ON THE PROJECT.

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE CHIEF ENGINEER. CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 1986, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON NOVEMBER 21, 1985 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

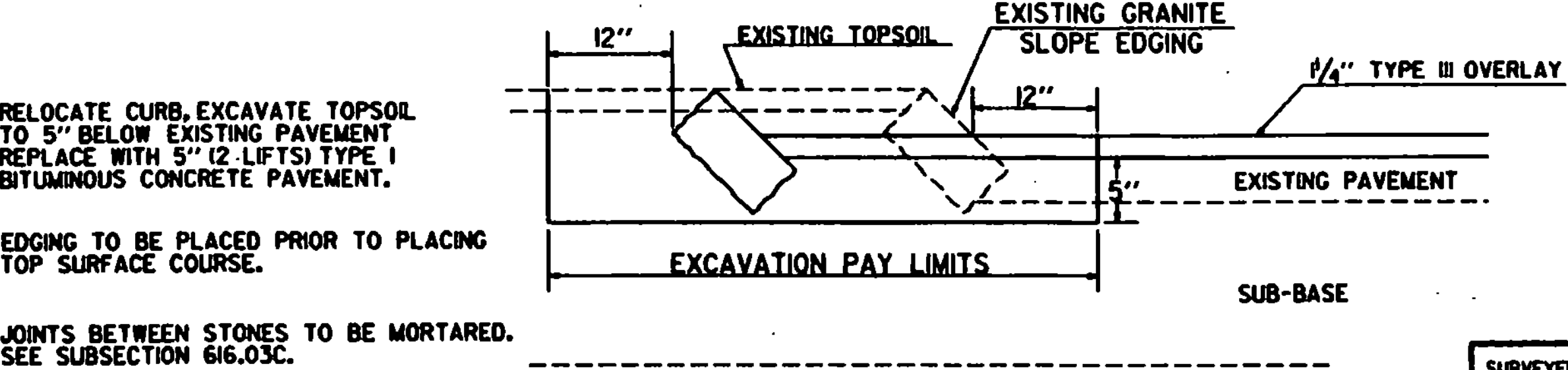
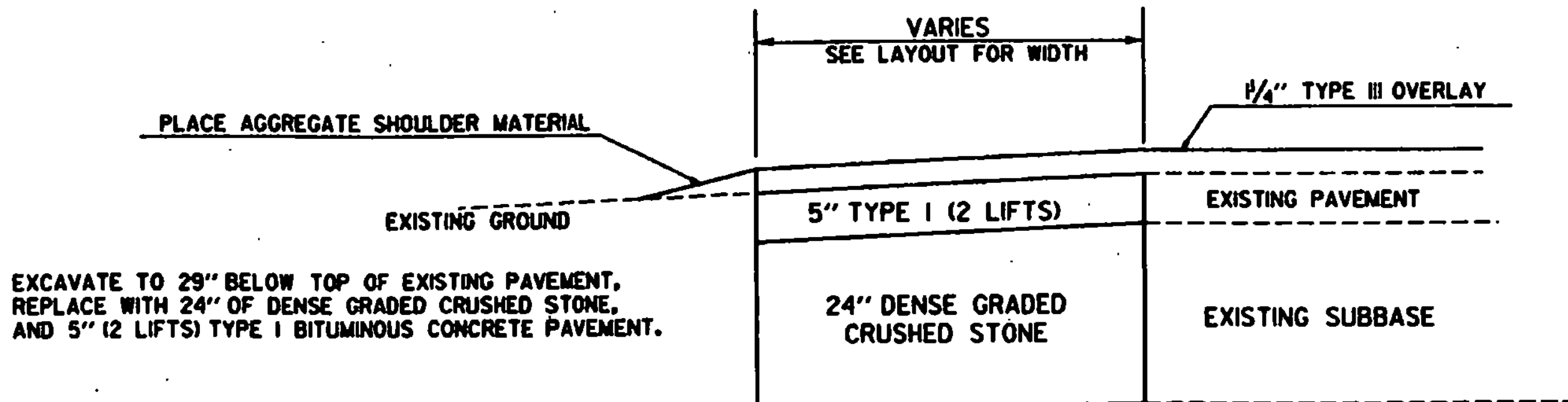
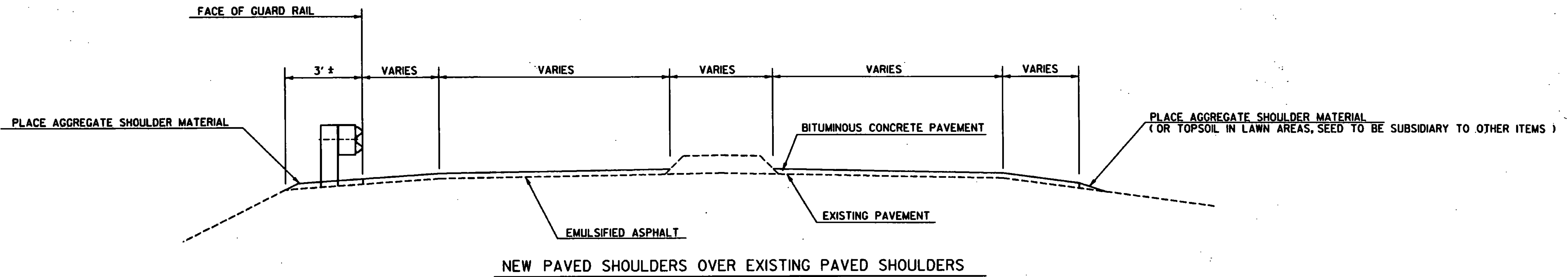
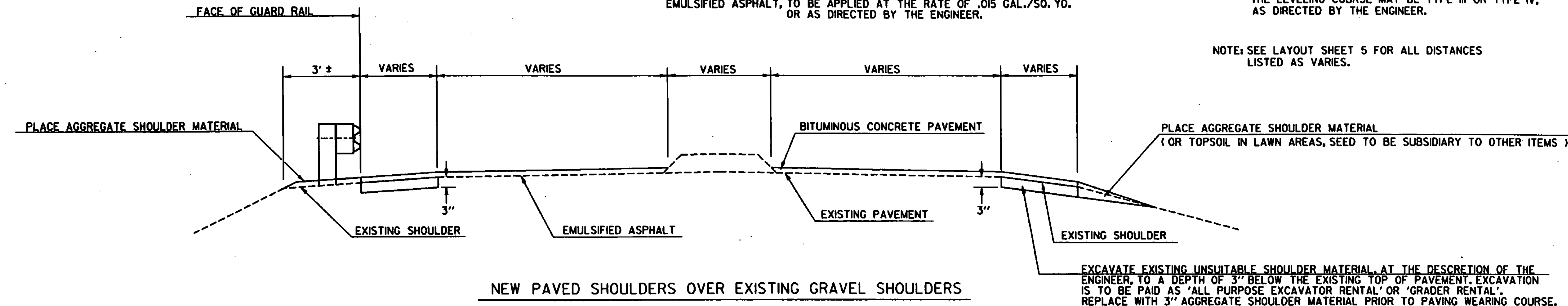
PAVE87TC	
SUBMITTED BY ORDER OF THE STATE TRANSPORTATION BOARD	
APPROVED <u>Frank D. Kelly</u>	DATE <u>1/21/89</u>
CHIEF ENGINEER	
DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION	
APPROVED	DATE
DIVISION ADMINISTRATOR	
NEWBURY	
PROJECT	F 026-1(3)S F 026-2(3)S
SHEET 1 OF 43 SHEETS	

TYPICAL SECTIONS 1988 PAVING PROGRAM

1 1/4" BITUMINOUS CONCRETE PAVEMENT (± 1/4")
436 AVERAGE TONS, PER/MILE LEVELING COURSE OF BITUMINOUS CONCRETE PAVEMENT
EMULSIFIED ASPHALT, TO BE APPLIED AT THE RATE OF .015 GAL./SQ. YD.
OR AS DIRECTED BY THE ENGINEER.

NOTE: THE WEARING COURSE WILL BE TYPE III.
THE LEVELING COURSE MAY BE TYPE III OR TYPE IV,
AS DIRECTED BY THE ENGINEER.

NOTE: SEE LAYOUT SHEET 5 FOR ALL DISTANCES
LISTED AS VARIES.



DATUM
VERTICAL _____
HORIZONTAL _____

LOCATION
MM 1.797 - MM 1.808 LT

LOCATION
MM 1.789 - MM 1.808 LT

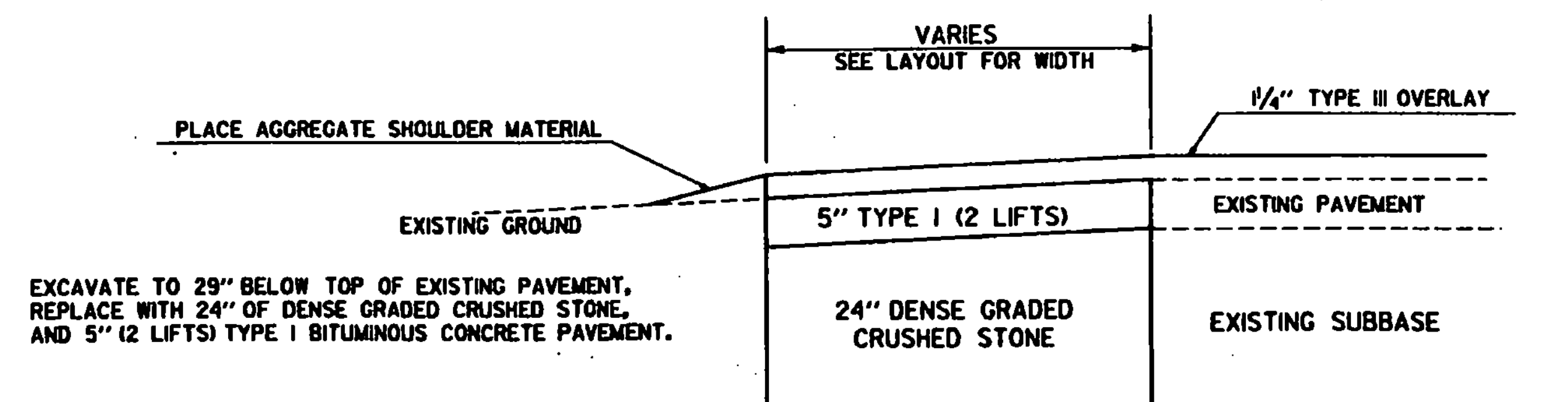
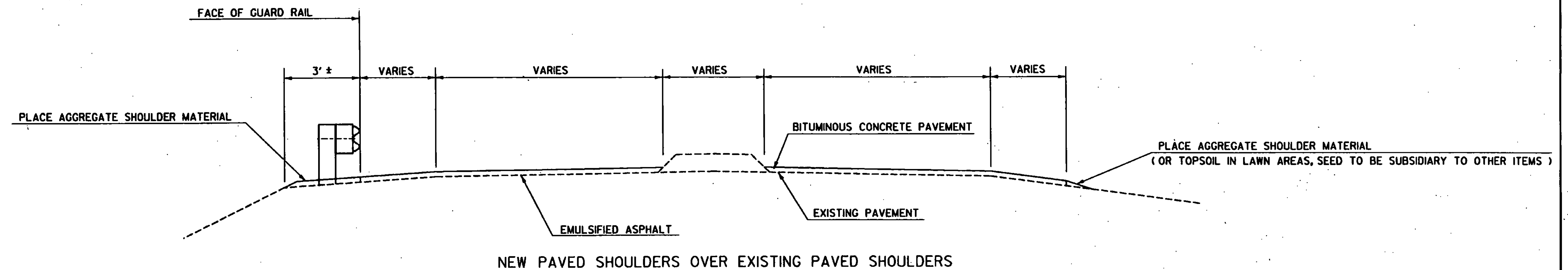
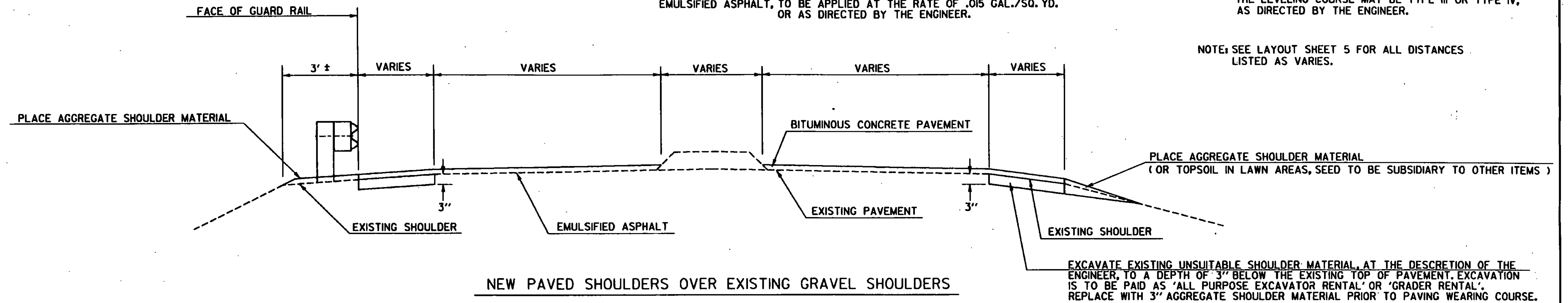
PAVE87X.PRF	
SURVEYED BY	DATE
DRAWN BY BEYOR	DATE 8-87
SQUAD LEADER HALE	
DESIGN FILE NO. PAVE87	DATE 8-29-87
PROJ. NAME NEWBURY	PLOTTED
PROJ. NO. F 026-K311S	
SHEET 2 OF 43	SHEETS

TYPICAL SECTIONS 1988 PAVING PROGRAM

1 1/4" BITUMINOUS CONCRETE PAVEMENT (± 1/4")
 459 AVERAGE TONS, PER/MILE LEVELING COURSE OF BITUMINOUS CONCRETE PAVEMENT
 EMULSIFIED ASPHALT, TO BE APPLIED AT THE RATE OF .015 GAL./SQ. YD.
 OR AS DIRECTED BY THE ENGINEER.

NOTE: THE WEARING COURSE WILL BE TYPE III.
 THE LEVELING COURSE MAY BE TYPE III OR TYPE IV,
 AS DIRECTED BY THE ENGINEER.

NOTE: SEE LAYOUT SHEET 5 FOR ALL DISTANCES
 LISTED AS VARIES.



DATUM
 VERTICAL _____
 HORIZONTAL _____

LOCATION
 MM 1.938 LT (RAMP B)
 MM 1.941- MM 1.970 LT

PAVE87Y.PRF

SURVEYED BY	BEYOR	DATE	8-87
DRAWN BY	HALE	DATE	8-87
SQUAD LEADER	HALE	DATE	8-29-87
DESIGN FILE NO.	PAVE87	DATE	8-29-87
PROJ. NAME	NEWBURY	DATE	8-29-87
PROJ. NO.	F 026-2(3)S	DATE	8-29-87
SHEET 3	OF 43	SHEETS	

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

[illegible]

STATIONS		PAVEMENT WIDTHS			EQUATIONS		FEET	MILES	REMARKS
FROM	TO				+	-			
TOTALS									

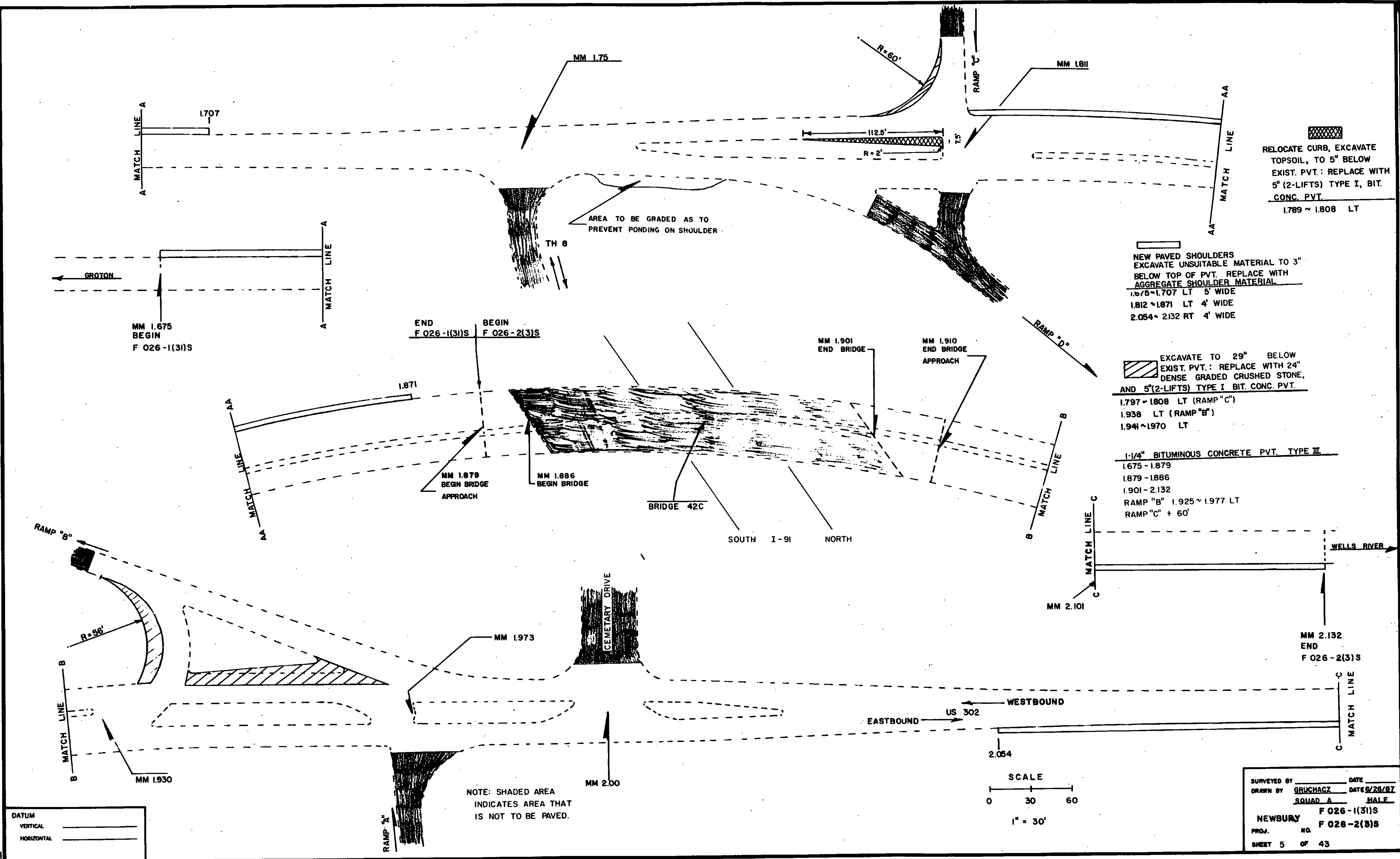
PROJECT NAME NEWBURY

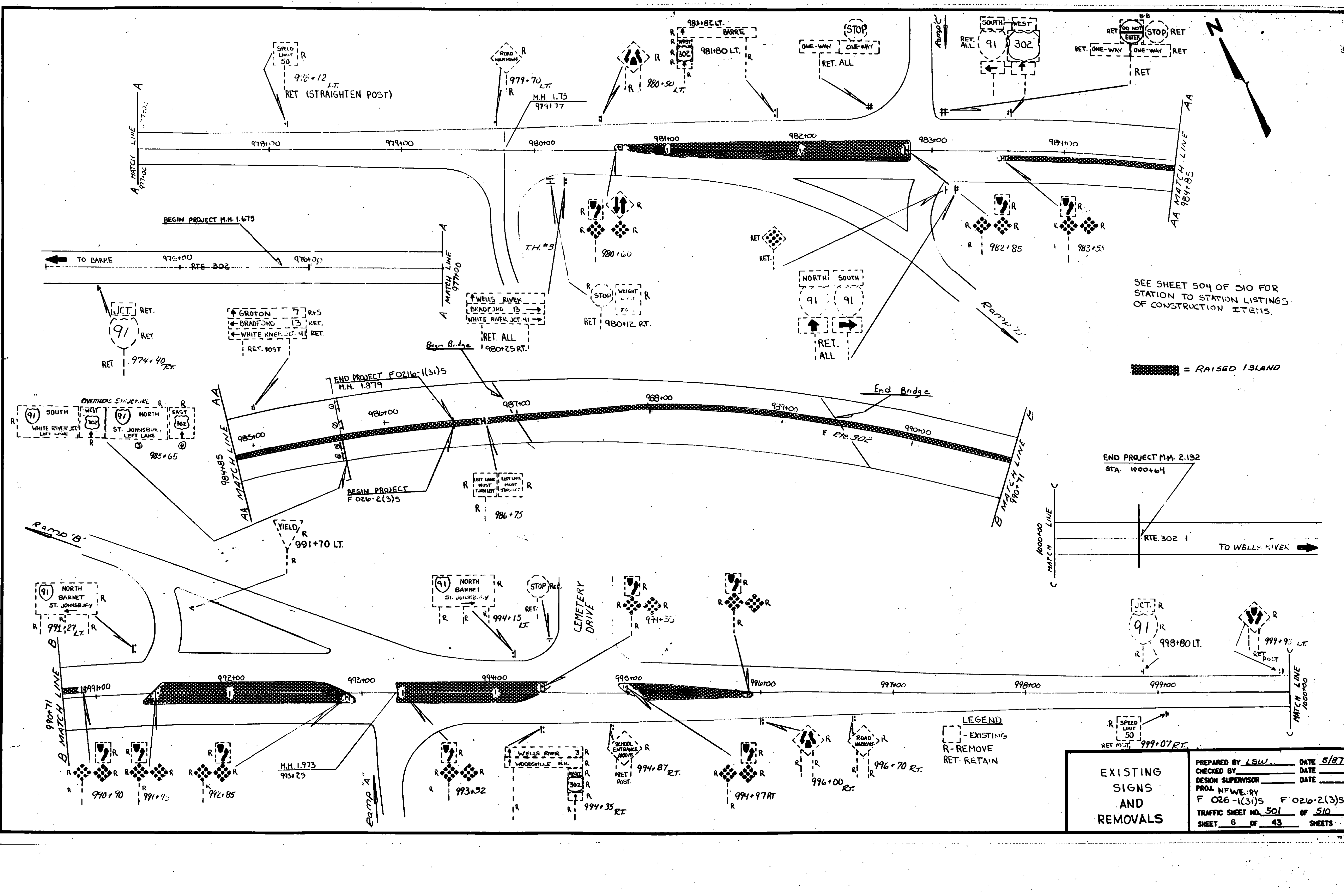
PROJECT NUMBER F 026-1(3)IS F 026-2(3)S

I-19-88

SHEET 4 OF 43 SHEETS

PAVE870S





SEE SHEET 504 OF 510 FOR
STATION TO STATION LISTINGS
OF CONSTRUCTION ITEMS.

= RAISED ISLAND

END PROJECT M.M. 2.132
STA. 1000+64

LEGEND
- EXISTING
R - REMOVE
RET - RETAIN

R SPEED
LIMIT
50
RET POST 999+07 RT.

EXISTING
SIGNS
AND
REMOVALS

PREPARED BY LSW	DATE 5/87
CHECKED BY	DATE
DESIGN SUPERVISOR	DATE
PROJ. NUMBER F 026-1(31)S	F 026-2(3)S
TRAFFIC SHEET NO. 501	OF 510
SHEET 6	OF 43 SHEETS

NOTE: ANY EXISTING SIGNS NOT SHOWN ON THIS SHEET ARE TO BE RETAINED. THEY MUST BE WASHED. (PAYMENT SUBSIDIARY TRAFFIC SIGNS, TYPE A - ITEM 675.20)

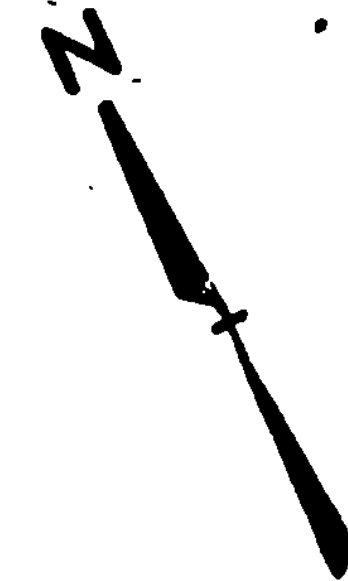
BEGIN PROJECT MM 1.675
FO26-1(31)S

RTT
STRAIGHTEN POST
978+12 LT.

M.M. 1.75
979+77

WEST
302

DO NOT ENTER
STOP
RET. ONE-WAY
982+31 LT.



TO BARRE 977 978 979 980 981 982 983 984

AA MATCH LINE

STOP

980+04 RT.

LEGAL LOAD LIMIT
24,000 LB

T.H. #8

980+60

Ramp 'D'

NOTE:
SHADED AREA INDICATES AREA THAT IS NOT TO BE PAVED.

SEE SHEET 504 OF 510 FOR STATION TO STATION LISTINGS OF CONSTRUCTION ITEM 13.

SOME EXISTING SIGNS INSTALLED UNDER PROJECT "NEWBURY IR 091-2(3)" AT RAMP LOCATIONS MAY NOT BE SHOWN ON THESE PLANS. THEY ARE TO BE RETAINED.

RAISED / ISLAND

91 NORTH
St. Johnsbury
LEFT LANE
EAST
302
SOUTH
White River Jct.
LEFT LANE
WEST
302

MAINTAIN EXISTING CLEARANCE BUT NO LESS THAN 15'-9"

985+65 RT.

RET. POST
SEE SHEET #510
985+07 LT.
END PROJECT FO216-1(31)S
M.M. 1.879

SEE SHEET #510

Begin Bridge

986+75 LT.

End Bridge

B MATCH LINE

RAMP "B"

91 NORTH
Barnet
St. Johnsbury

991+72 RT.
SEE DIMENSION BELOW

991+65 LT.

YIELD

991+90 LT.

991+52 LT.

CEMETERY DRIVE

994+39

995+87

GROTON 7
BARRE 28
BAKNET 11
ST. JOHN SBURY 22

996+98 LT.

JCT. 91

998+88 LT.

999+95 LT.
ADJUST HEIGHT OF SIGN

END PROJECT 2.132
FO26-2(3)S

B MATCH LINE

992 993

994

995

996

997

998

999

1000 1000+65

EXISTING LIGHT POLE

M.M. 1.973
993+25

RAMP "A"

993+32

302 EAST

993+87 RT.

SCHOOL ENTRANCE
1000 FT.

994+87 RT

995+00

WELLS RIVER 3
WOODSVILLE N.H.

996+31 RT.

SPEED LIMIT 50

RET. 991+07 RT.

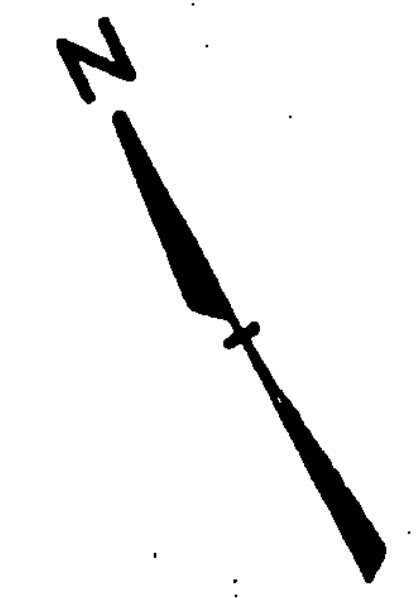
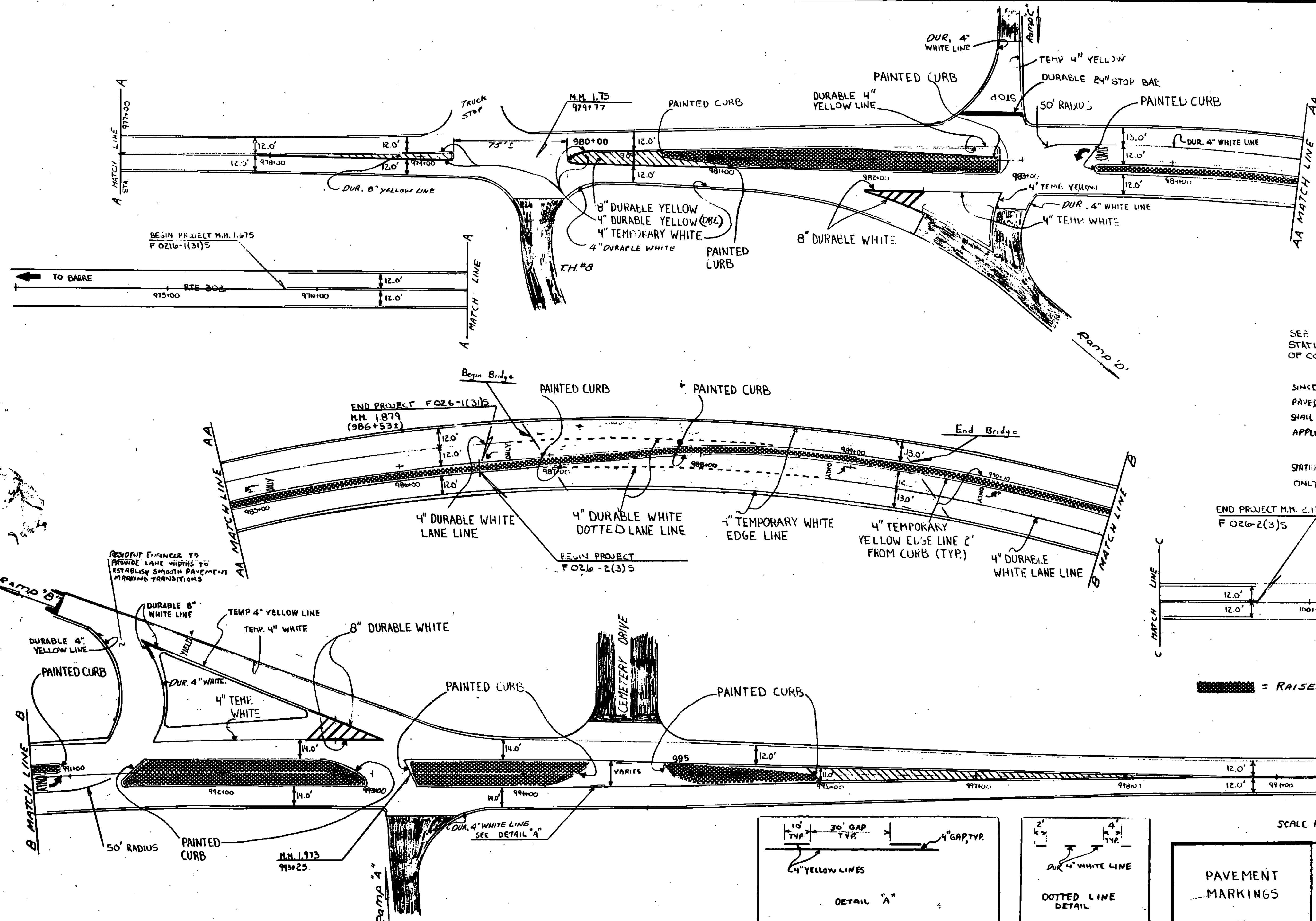
LEGEND

RET. RETAIN

S. SALVAGE

NEW AND SALVAGED SIGNS

PREPARED BY LSW DATE 5/87
CHECKED BY DATE
DESIGN SUPERVISOR DATE
PROJ. NEWBURY
FO26-1(31)S, FO26-2(3)S
TRAFFIC SHEET NO. 502 OF 510
SHEET 7 OF 43 SHEETS



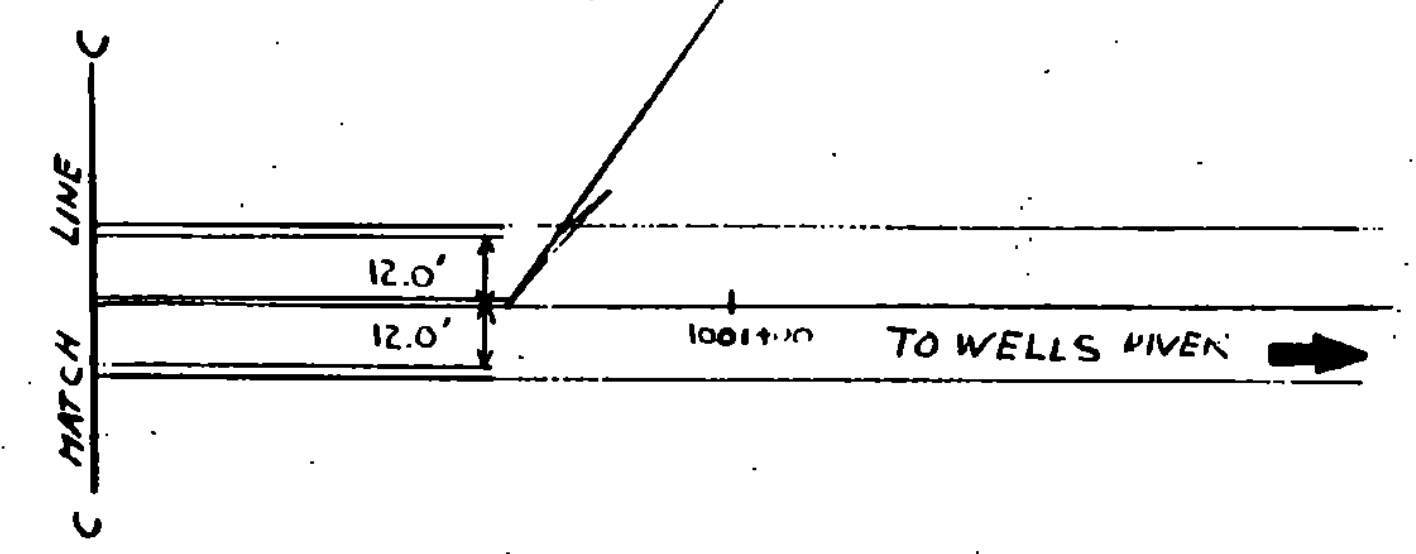
NOTE: UNLESS OTHERWISE NOTED ALL MARKINGS SHALL BE 2' FROM CURB
 ALL RADII AROUND CURB SHALL BE DURABLE MARKINGS
 SHADED AREA INDICATES AREA THAT IS NOT TO BE PAVED.

SEE SHEET 504 OF 510 FOR STATION TO STATION LISTING OF CONSTRUCTION ITEMS.

SINCE BRIDGE IS NOT TO BE PAVED, EXISTING PAVEMENT MARKINGS SHALL BE REMOVED PRIOR TO APPLICATION OF NEW MARKINGS.

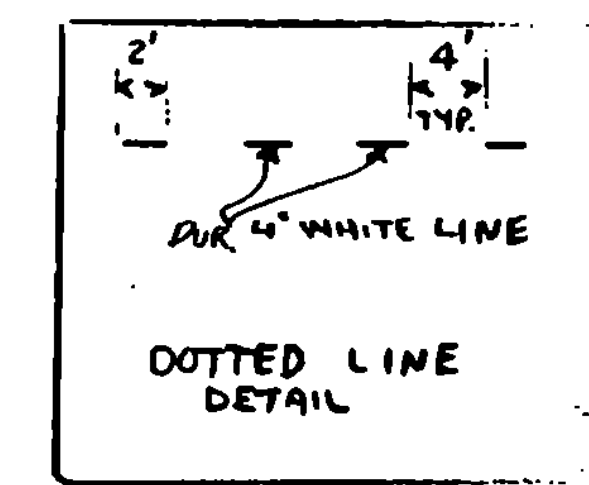
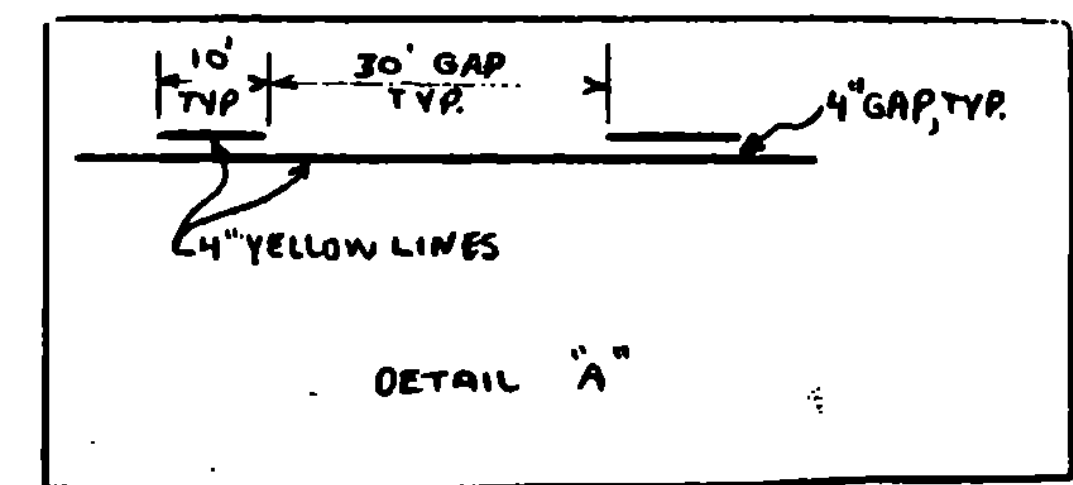
STATIONING SHOWN FOR REFERENCE ONLY.

END PROJECT M.M. 2.132
 F 026-2(3)S



■ = RAISED ISLAND

SCALE 1" = 30'



PAVEMENT MARKINGS	PREPARED BY	J.S.W.	DATE	5/87
	CHECKED BY		DATE	
	DESIGN SUPERVISOR		DATE	
	PROJ.	NEWBURY		
		F026-1(3)S, F026-2(3)S		
	TRAFFIC SHEET NO.	503	OF	510
	SHEET	8	OF	43
				SHEETS

TEMPORARY 4" YELLOW LINE

* 975+79.5 - 977+90.5 (DBL SOLID)
 983+00.30 - 75' LT. RAMP 'C'
 983+51.2' RT. - 990+92.10' LT. (MED. LT.)
 983+51.10' RT. - 990+92.2' LT. (MED. RT.)
 990+92 - 990+96.2' LT. - 10' LT. (RAD.)
 991+36 - 992+94.8' RT.
 991+48 - 992+66.10' LT.
 993+21 - 994+42.9' LT.
 993+30 - 994+13.8' RT.
 * 998+50 - 1000+60.5 (DBL.)
 991+65.82' LT. - 992+76.36' LT. (RAMP 'B')

PAINTED CURB

PAINTED CURB AS PER DETAIL
 ON TRAFFIC SHEET # 510.

DURABLE 24" STOP BAR

* 982+57 - 983+00, 31' LT.

TEMPORARY 4" WHITE LINE

975+79 RT. - 979+37 RT. (AS SHOWN)
 980+15 RT. - 982+28 RT. (AS SHOWN)
 982+33 RT. - 982+30 RT. (AS SHOWN)
 983+10 RT. - 993+10 RT. (AS SHOWN)
 986+53
 993+90 RT. - 1000+60 RT. (AS SHOWN)
 975+71 LT. - 982+10 LT. (AS SHOWN)
 983+30 LT. - 991+37 LT. (AS SHOWN)
 991+65 LT. - 992+76 LT. (AS SHOWN)
 993+30 LT. - 1000+60 LT. (AS SHOWN)
 991+17, 116 LT. - 993+30.35 LT. (RAMP B)

* INDICATES PAVEMENT MARKING ITEMS WHICH
 MUST ALSO BE APPLIED TO THE LEVELING COURSE
 AS TEMPORARY MARKINGS. NO DIAGONAL LINES NECESSARY
 ON LEVELING COURSE.

DURABLE 4" YELLOW LINE

* 977+90.5 - 979+20.2' LT. & 2' RT. (DBL. LT. & RT.)
 * 979+52 LT. & RT. - 979+57.5 (DBL. RAD.)
 * 979+98.2' RT. - 980+60.5' LT. (DBL.)
 * 979+98.2' RT. - 981+20.6' RT. (DBL.)
 980+60.5' LT. - 981+82.9' LT.
 981+20.6' RT. - 982+82.10' RT.
 981+82.9' LT. - 982+82.10' LT. (DBL.)
 982+82.10' LT. & RT. - 982+85.5
 983+00.30' LT. - 983+06.24' LT. (RAD.)
 983+47.5 - 983+51.3' RT. - 10' RT. (RAD.)
 990+92.2' LT. - 10' LT. - 990+96.5 (RAD.)
 991+31 - 991+36.3' RT. - 10' RT. (RAD.)
 991+33.3' RT. - 991+48.10' LT.
 992+66.10' LT. - 992+96.3' RT. (RAD.)
 992+96.3' RT. - 8' RT. - 992+94.6' RT. (RAD.)
 993+21.9' LT. - 993+30.8' RT.
 994+13.8' RT. - 995+94.5' RT. (SOLID & 2 DASHES)
 994+42.9' LT. - 995+34.7' LT. (SOLID & 1 DASH)
 * 995+34.7' LT. - 998+50.5 (DBL.)
 * 995+94.5' RT. - 998+50.5 (DBL.)
 991+17.98' LT. - 991+25.22' LT. (RAMP RAD.)

DURABLE 4" WHITE LINE

983+43 6' LT. * 983+98 6' RT. *
 985+03 6' LT. * 990+00 6' RT. *
 986+63 6' LT. * 990+92 6' RT. *

DURABLE 8" WHITE LINE

981+95.20' RT. - 982+34.20' RT. (W/DIAG) *
 992+55.22' RT. - 993+10.22' LT. (W/DIAG) *
 991+57.90' LT. - 991+60.76' LT. *
 991+57.90' LT. - 991+65.83' LT. *

DURABLE 8" YELLOW LINE (DIAG.)

978+48 - 979+20 (MED.)
 979+98 - 980+98 (MED.)
 993+94 - 998+04 (MED.)

DURABLE LETTER IN WHITE MARKING

983+55 6' LT. "ONLY" 5' RT. "ONLY"
 985+15 6' LT. "ONLY" 5' RT. "ONLY"
 986+75 6' LT. "ONLY" 5' RT. "ONLY"
 RAMP 'C' (AS SHOWN) "STOP"
 RAMP 'E' (AS SHOWN) "YIELD"

DURABLE 4" WHITE LINE

979+37.13' RT. - 979+62.28' RT. (RAD.) TH P
 979+96.28' RT. - 980+13.17' RT. (RAD.) TH S
 982+44.23' LT. - 982+85.74' LT. (RAD.) RAMP 'C'
 * 982+94.10' RT. - 983+20.10' LT. (RAD.) LANE LINE
 983+03.33' RT. - 983+11.23' RT. (RAD.) RAMP 'C'
 * 983+20 - 986+76.10' LT. - LANE LINE
 986+78 - 988+43.10' LT. (DOTTED)
 987+00 - 988+85.10' RT. (DOTTED)
 * 988+84 - 990+90.10' RT. - LANE LINE
 990+90.10' RT. - 991+25.3' RT. (RAD.)
 991+57.76' LT. - 991+55.21' LT. (RAMP RAD.)
 993+05.23' RT. - 993+10.28' RT. (RAD.) RAMP 'A'
 993+57.28' RT. - 993+88.23' RT. (RAD.)

TRAFFIC SIGNS, TYPE B

985+65 (MOUNTED ON OVERHEAD STRUCTURE)
 991+17 RT. SEE SHEET # 502 FOR LOCATION

W-SHAPE STEEL SIGN POSTS (MOD.)

991+17 RT. (2)

FOUNDATION FOR W-SHAPE STEEL POSTS, 24" DIA.

991+17 RT. (2)

REMOVING SIGNS

978+12 LT.	992+85 RT. (3)	
979+70 LT.	993+21 RT. (3)	
980+12 RT. (2)	994+35 RT. (3)	994+15 LT.
980+50 LT.	994+35 RT. (3)	
980+60 RT. (4)	994+87 RT.	
981+80 LT. (4)	994+97 RT. (3)	
982+85 RT. (3)	995+90 RT. (3)	
983+55 RT. (3)	996+00 RT.	
985+07 LT.	996+70 RT.	
F0216-1(31)S	985+65 (OVERHEAD STRUCTURE) (4)	
F026-2(3)S	986+75 RT. (2)	998+90 LT. (2)
	990+90 RT. (3)	999+07 RT.
	991+27 LT.	999+95 LT.
	991+45 RT. (3)	
	991+75 LT.	

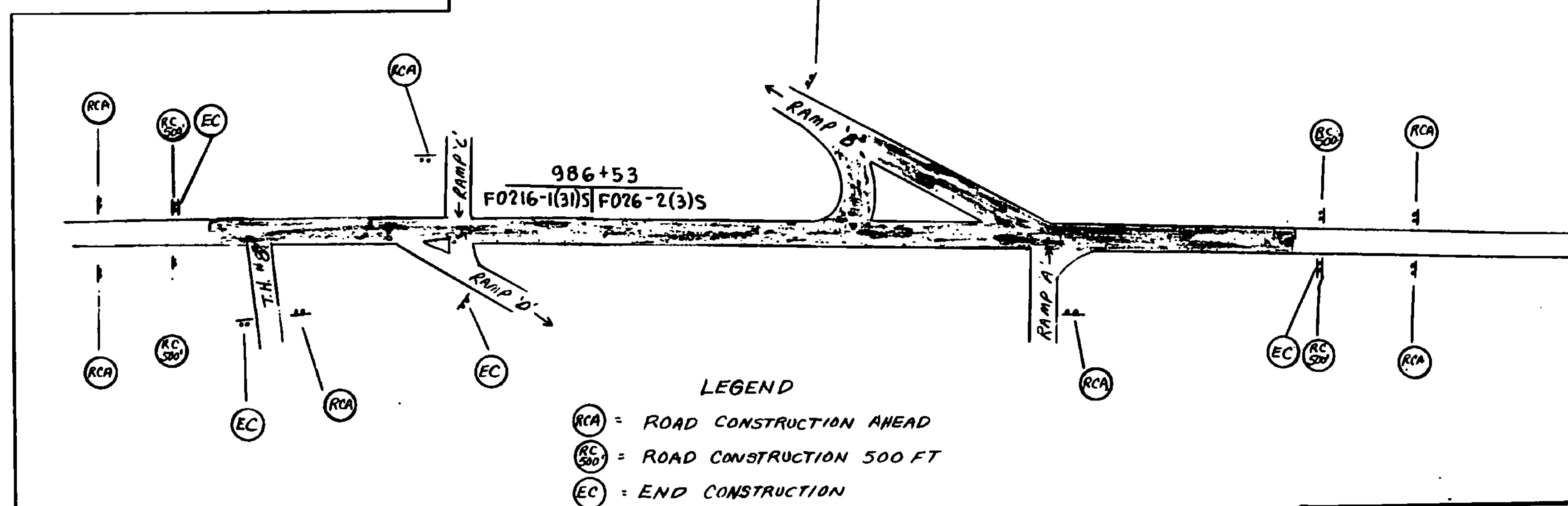
RI = RAISED ISLAND

ERECTING SALVAGED SIGNS

985+07 LT.

REMOVE AND REPLACE REFLECTOR UNITS (MOD.)

BRIDGE NO. 42-C (SPECIAL PROVISION)
 SEE NOTE ON T.S. 500



CONSTRUCTION APPROACH SIGNING
 REFER TO STD. E-100

PREPARED BY LSW DATE 5/87
 CHECKED BY DATE
 DESIGN SUPERVISOR DATE
 PROJ. NEWBURY
 F026-1(31)S F026-2(3)S
 TRAFFIC SHEET NO. 504 OF 510
 SHEET 9 OF 43 SHEETS

TRAFFIC SIGN SUMMARY SHEET

1986

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	EXISTING SIGNS			NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS														REMARKS	FOR SIGN DETAIL SHEET		
			TO BE SALVAGED	REMOVE	RETAIN	"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM				TUBULAR STEEL				W SHAPED STEEL			FTG. SIZE	PLAN SHEET NUMBER	STD. SHEET NUMBER
															2.0	2.5	3.0	3.0"Ø	3.0"□	4.0"Ø	4.0"ØM.	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT				
978+12 Lt.		24" x 30"				5				X																					E-142
979+62 Rt.		24" x 30"				5							1		X																E-141
980+04 Rt.		30" x 30"				6.25				X																					E-143
980+60 Med.		24" x 30"				5							1			X															E-142
		18" x 18" 18" x 18"				5																									E-150
980+82 Lt.		12" x 24" 30" x 24"				7							1		X																E-136
982+43 Lt.		30" x 30"				6.25				X																			MOUNT ON BACK OF EXISTING "STOP-ONE WAY" ASSEMBLY		E-143
982+80 Med. Lt.		18" x 18" 18" x 18"				5							1			X															E-150
		24" x 30"				5																									E-142
983+53 Med. Rt.		24" x 30"				5							1			X															E-142
		18" x 18" 18" x 18"				5																									E-150
985+07 Lt.		72" x 10"				5		1		X																			REMOVE AND SALVAGE "GROTON" PANEL AND REMOUNT OVER NEW "BARRE" PANEL ON EXTENSIONS PER DETAIL ON SHEET # 510		E-23
985+65 Rt.		6' x 9'					51																						MOUNT ON OVERHEAD SIGN SUPPORT	SEE SHT. 510	
985+65 Rt.		15' x 8.5'					127.5																						"	SEE SHT. 510	
985+65 Lt.		6' x 9'					51																						"	SEE SHT. 510	
985+65 Lt.		17' x 8.5'					144.5			END PROJECT				F026-1(31)S														"	SEE SHT. 510		
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE DESIGN DIVISION'S "SIGN POST DESIGN MANUAL".				EA.		SF.	SF.	EA.	SF.						72.5	144															
TOTALS						64.5	374	1							216.5																

TRAFFIC SIGN SUMMARY SHEET

PREPARED BY LSW DATE 5/87
 CHECKED BY DATE
 DESIGN SUPERVISOR DATE
 PROJ. NEWBURY
 F026-1(31)S
 TRAFFIC SHEET NO. 505 OF 510
 SHEET 10 OF 43 SHEETS

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS	EXISTING SIGNS			NEW AND SALVAGED SIGNS				EXISTING POSTS				NEW SIGN POSTS														REMARKS	FOR SIGN DETAIL SHEET			
			TO BE SALV.	REMOVE	RETAIN	"A"	"B"	SALV. SIGN	SALV. T.I.S.	RET.	DRILL	REM.	SALV.	NUMBER OF POSTS	FLANGED CHANNEL LB./FT.			TUBULAR ALUMINUM				TUBULAR STEEL				W SHAPED STEEL			PLAN SHEET NUMBER	STD. SHEET NUMBER		
															2.0	2.5	3.0	3.0"Ø	3.0"□	4.0"Ø	4.0"ØM.	3"Ø	3.5"Ø	4.0"Ø	5.0"Ø	POST SIZE	WEIGHT				24"	30"
BEGIN PROJECT F 026-2(3)S																																
986+75 Rt.		30" x 30"				6.25							1		X																E-140	
986+75 Lt.		30" x 30"				6.25							1		X																E-140	
988+05 Rt.		12 x 36				3							1	X															TS# 510			
990+90 Med. Lt.		24" x 30"				5							1			X														E-142		
"		18" x 18" 18" x 18"				5																									E-150	
991+17 Rt.		14' x 11'					154						2																SEE SHEET # 504 FOR CROSS SECTION SEE SHEET # 502 FOR EXACT LOCATION	SEE SHEET 510	E-131	
991+42 Med. Rt.		24" x 30"				5							1			X															E-142	
"		18" x 18" 18" x 18"				5																									E-150	
991+65 Lt.		24" x 12" 24" x 24" 21" x 15"				8.2							1			X															E-135	
991+90 Lt.		36" x 36"				9							1			X															E-143	
992+85		24" x 30"				5																									E-142	
"		18" x 18" 18" x 18"				5							1			X															E-150	
991+52 Lt.		24" x 12" 24" x 24" 21" x 15"				8.2							1			X															E-135	
993+32 Med. Rt.		24" x 30"				5																									E-142	
"		18" x 18" 18" x 18"				5							1			X															E-150	
993+87 Rt.		12" x 24" 30" x 24"				7							1			X															E-136	
994+38 Med. Lt.		24" x 30"				5																									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 DESIGN DIVISION'S "SIGN POST DESIGN MANUAL".			EA.	SF.	SF.	EA.	SF.					30	107.5	286									747	2	TRAFFIC SIGN SUMMARY SHEET		PREPARED BY LSW DATE 5/27 CHECKED BY DATE DESIGN SUPERVISOR DATE PROJ. NEWBURY F 026-2(3)S TRAFFIC SHEET NO. 506 OF 510 SHEET 11 OF 43 SHEETS					

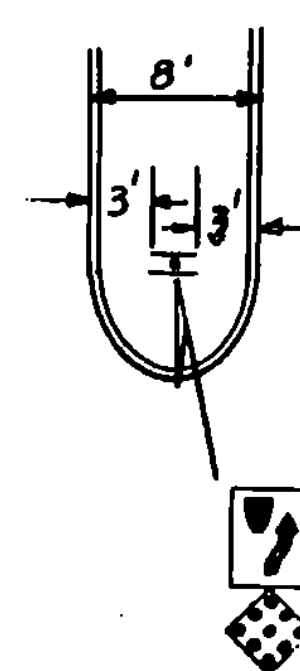
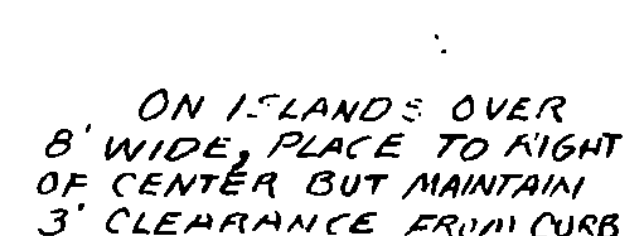
86

[illegible]

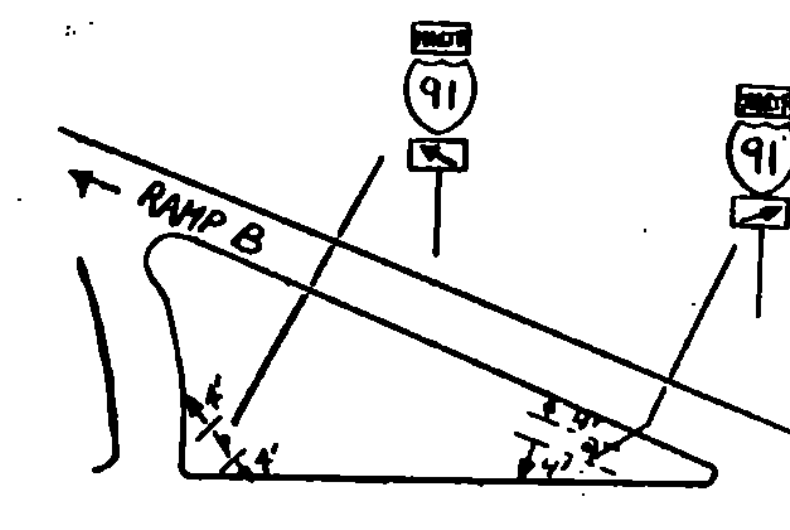
1986

TRAFFIC ITEM SUMMARY						
ITEM NO.	ITEM	UNIT	F0216-(1)S	F0216-2(3)S	(3) RNDG. (3)	TOTAL
646.31	DURABLE 4" YELLOW LINE	LF.	1514	1425	6 5	2950
646.34	DURABLE 3" WHITE LINE	LF.	125	200	5 -	325
646.35	DURABLE 8" YELLOW LINE	LF.	172	210	18 -	400
646.42	DURABLE ARROW MARKING	EA	2	4	- -	6
646.44	DURABLE LETTER IN WORD MARKING	EA	12	21	- -	33
646.50	TEMP. 4" WHITE LINE	LF.	2359	3121	16 4	5500
646.51	TEMP. 4" YELLOW LINE	LF.	2416	3274	4 6	5700
646.54	TEMP. 8" WHITE LINE	LF.	90	150	10 -	250
646.62	TUBULAR ALUMINUM SIGN POSTS	LB.	-	57	- 3	60
646.62	TEMP. ARROW MARKINGS	EA.	2	4	- -	6
646.60	TEMP. 24" STOP BAR	LF.	46	-	4 -	50
675.20	TRAFFIC SIGNS, TYPE A	SF.	645	184.1	0.5 0.9	250
675.21	TRAFFIC SIGNS, TYPE B	SF.	374	154.	6 6	540
675.30	FLANGED CHANNEL SIGN POSTS	LB.	216.5	742.	3.5 8	970
675.31 (MOD.)	W-SHAPE STEEL SIGN POSTS	LB.		747	- 3	750
675.41	FOUNDATION FOR W-SHAPE STEEL POSTS 24" DIA	EA.		2	- -	2
675.50	REMOVING SIGNS	EA.	24	38	- -	62
676.15	REMOVE AND REINSTALL REFLECTOR UNITS (MOD)	EA.		37	3	40

THE ITEM REMOVE AND REPLACE REFLECTOR UNITS (MOD.)
SHALL BE NEW REFLECTOR UNITS ONLY. THERE ARE NO EXISTING
UNITS TO REMOVE.

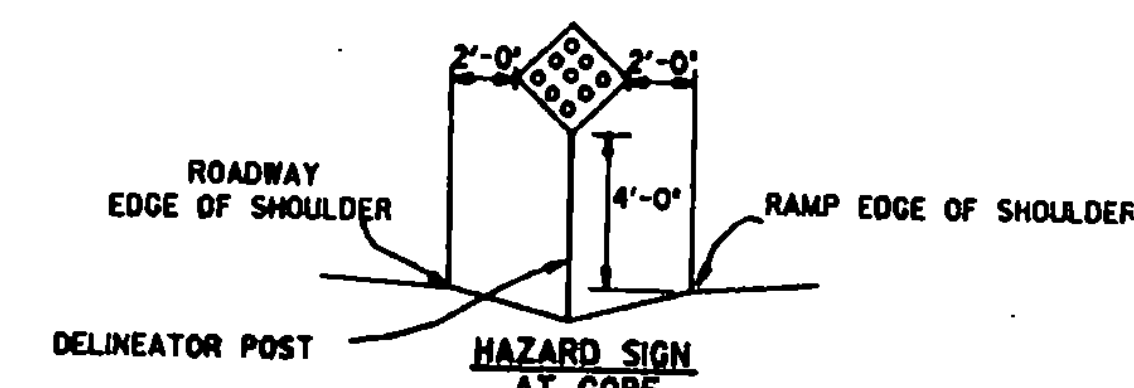


KEEP RIGHT
SIGN AT GORE



NOT TO SCALE

SIGN LOCATION DETAIL

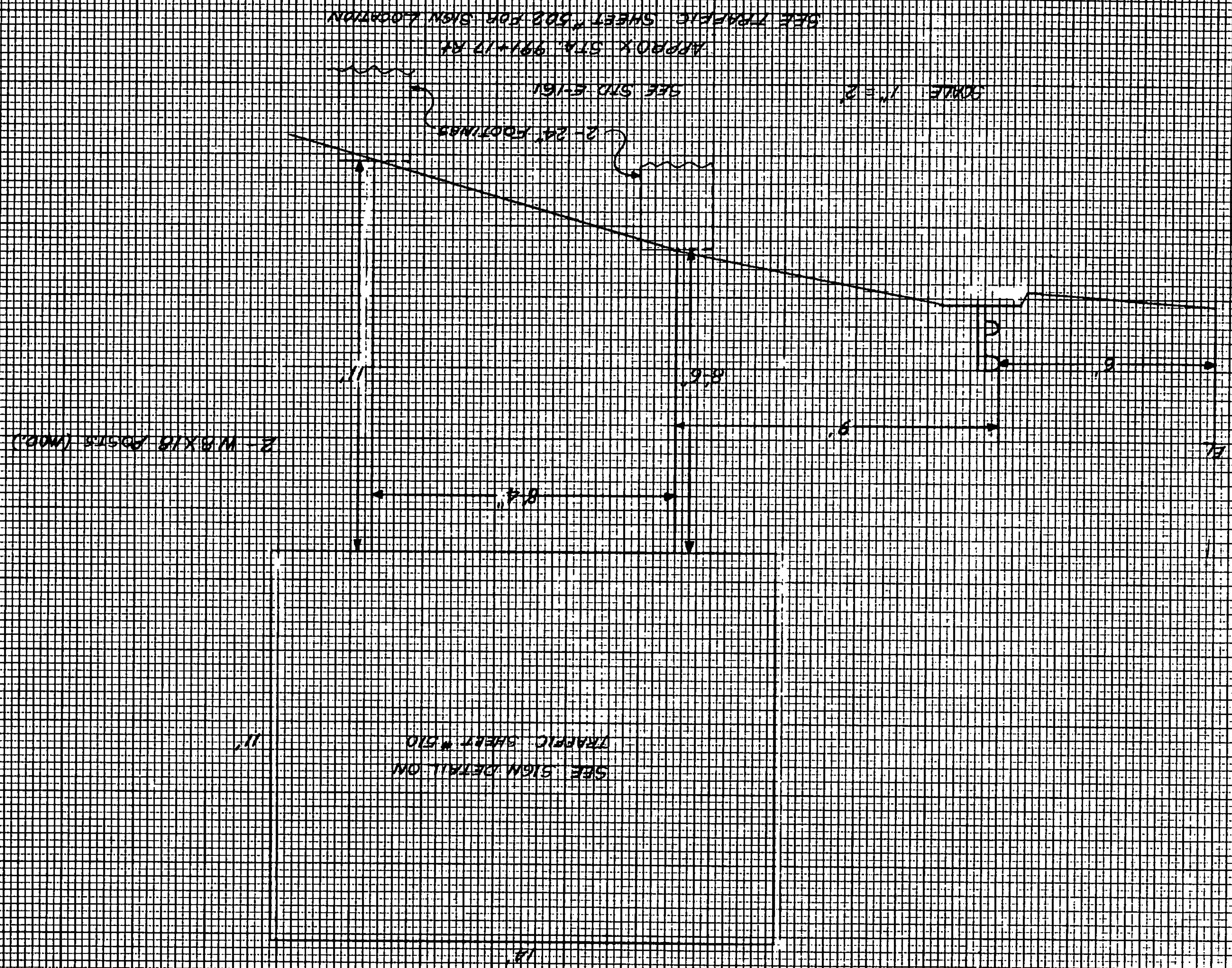


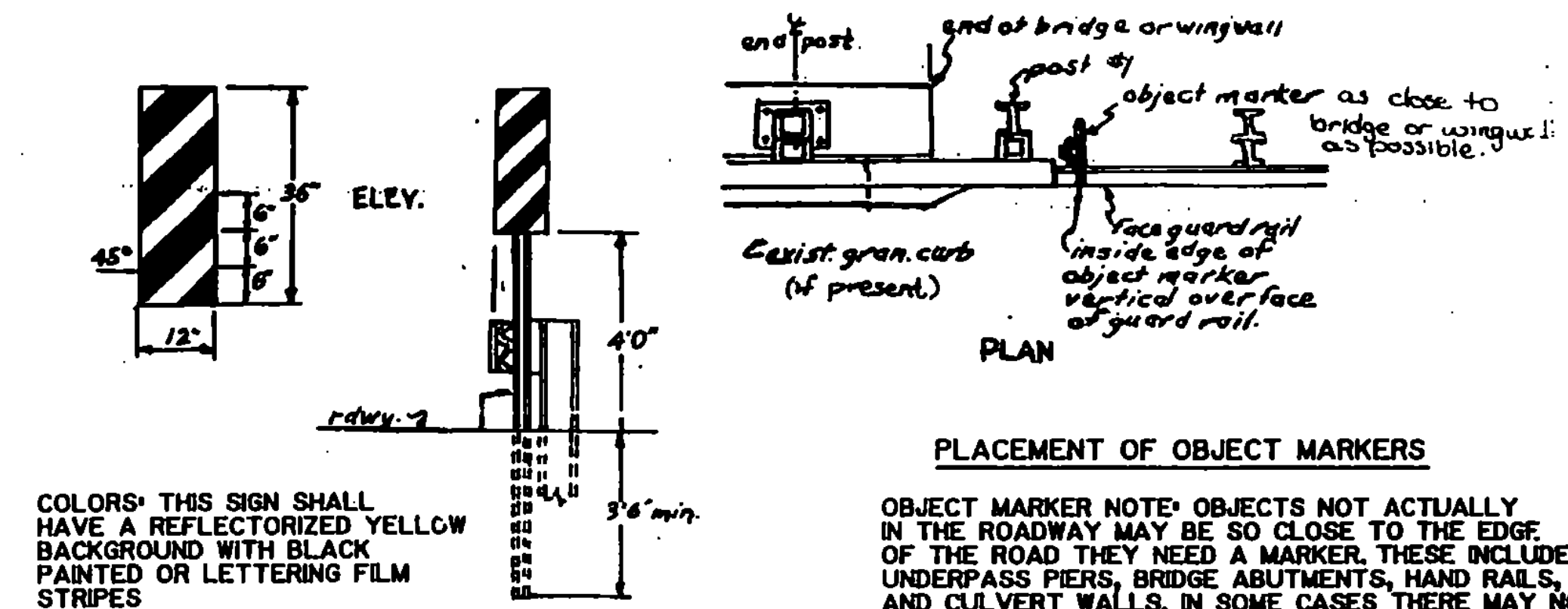
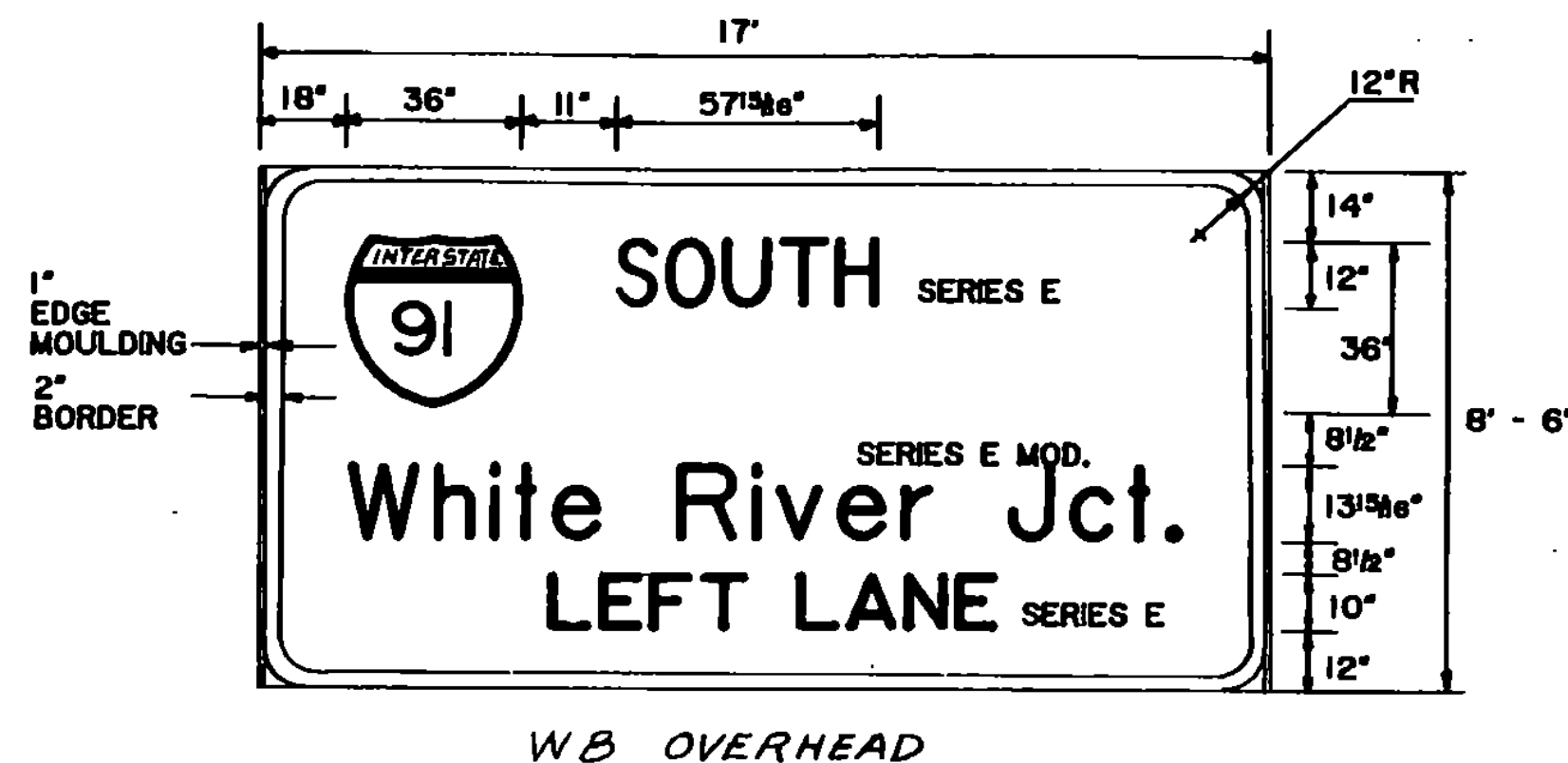
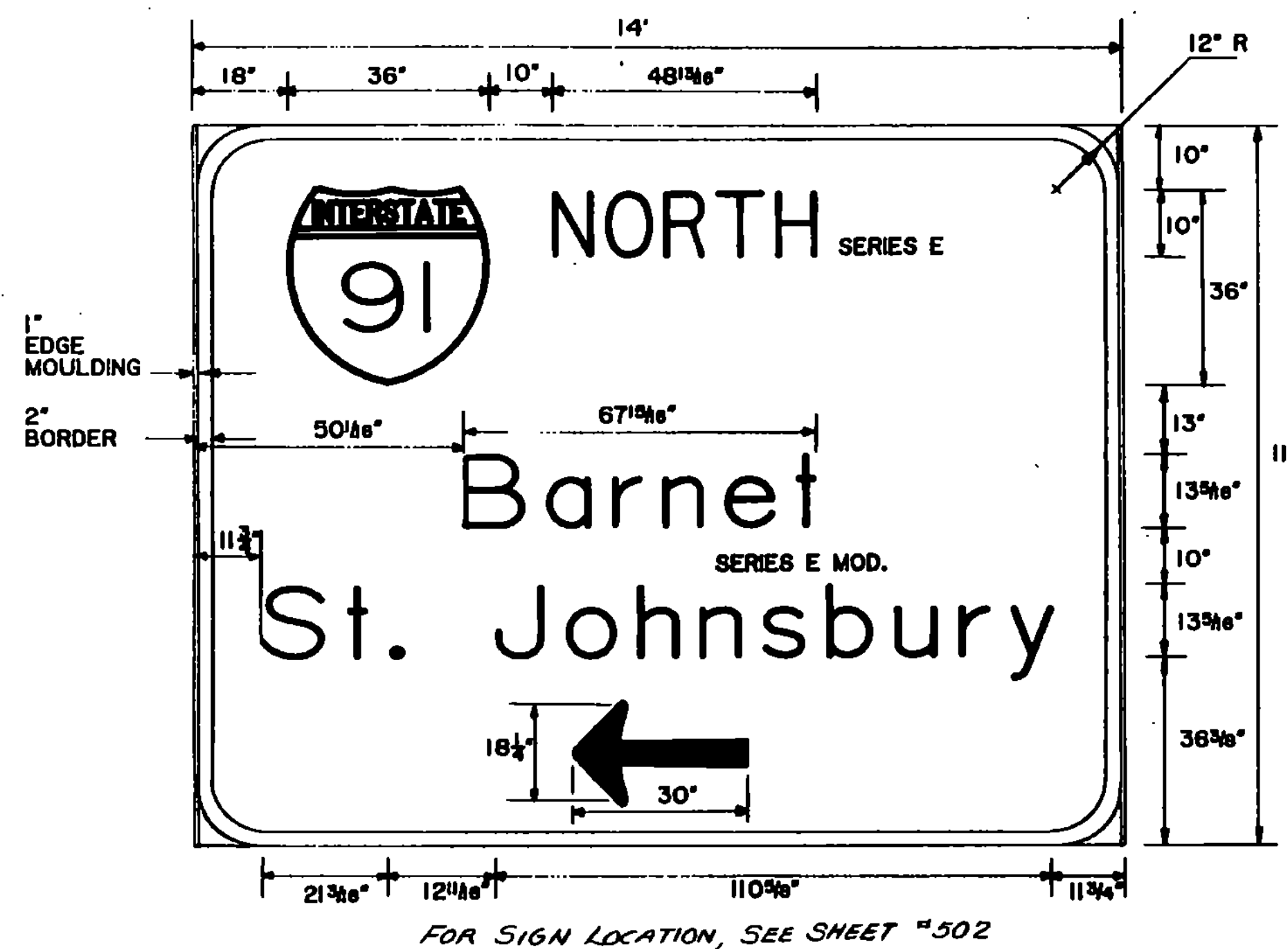
ITEM NO.	ITEM	UNIT	(31)	(3)	RNDG (31) (3)	TOTAL
646.40	DURABLE 24" STOP BAR	LF	46	-	4 -	50
646.21	PAINTED CURB	LF	330	705	- -	1035
675.60	ERECTING SALVAGED SIGN	EA	1		- -	1
646.30	DURABLE 4" WHITE LINE	LF	506	470	4 -	980
646.80	REMOVAL OF EXISTING PAV'T MARKING	SF	-	40	- -	40

PREPARED BY LSW DATE 5/87
CHECKED BY _____ DATE _____
DESIGN SUPERVISOR _____ DATE _____
PROJ. NEW JERSEY
F026-1(31)S F 026-2(3)S
TRAFFIC SHEET NO. 508 OF 510
SHEET 13 OF 43 SHEETS

SURVEY		SURVEILLANCE
NOTE BOOK	PLOTTED	
	TEMPERATURE	
NO.	AREAS	
	AREAS CHECKED	

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED	1	
NO.			





OBJECT MARKER

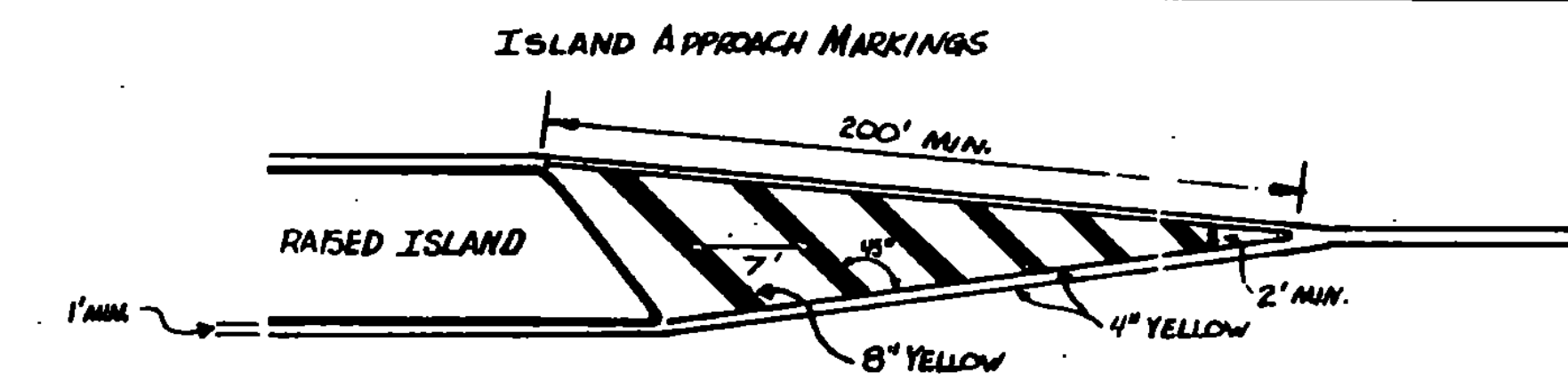
COLORS: THIS SIGN SHALL HAVE A REFLECTORIZED YELLOW BACKGROUND WITH BLACK PAINTED OR LETTERING FILM STRIPES

MATERIALS: THE SIGN BASE MATERIAL USED FOR THIS SIGN MAY BE EITHER 3/8" HIGH DENSITY PLYWOOD OR 0.100 FLAT SHEET ALUMINUM WITH A REFLECTORIZED SHEETING BACKGROUND.

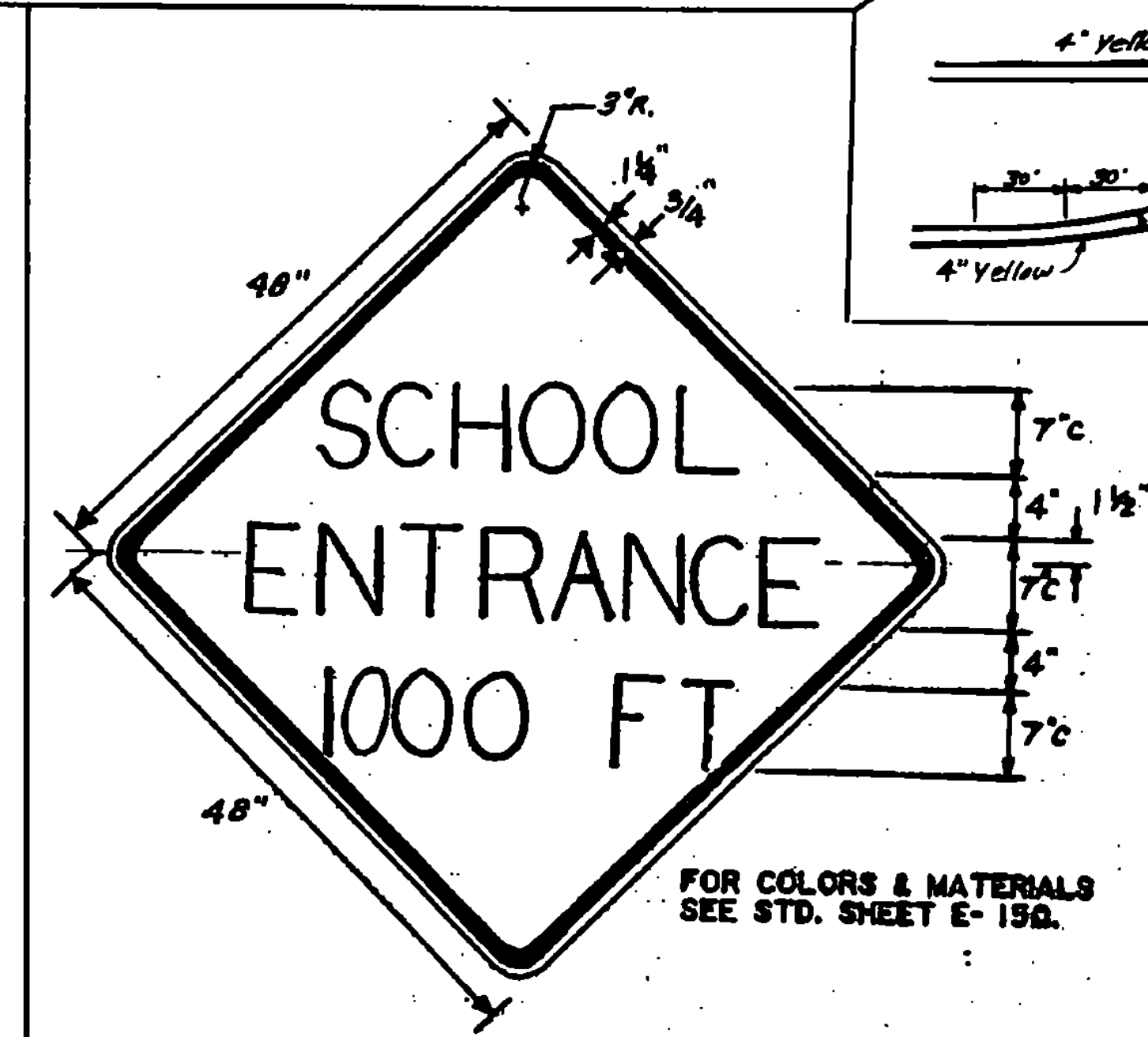
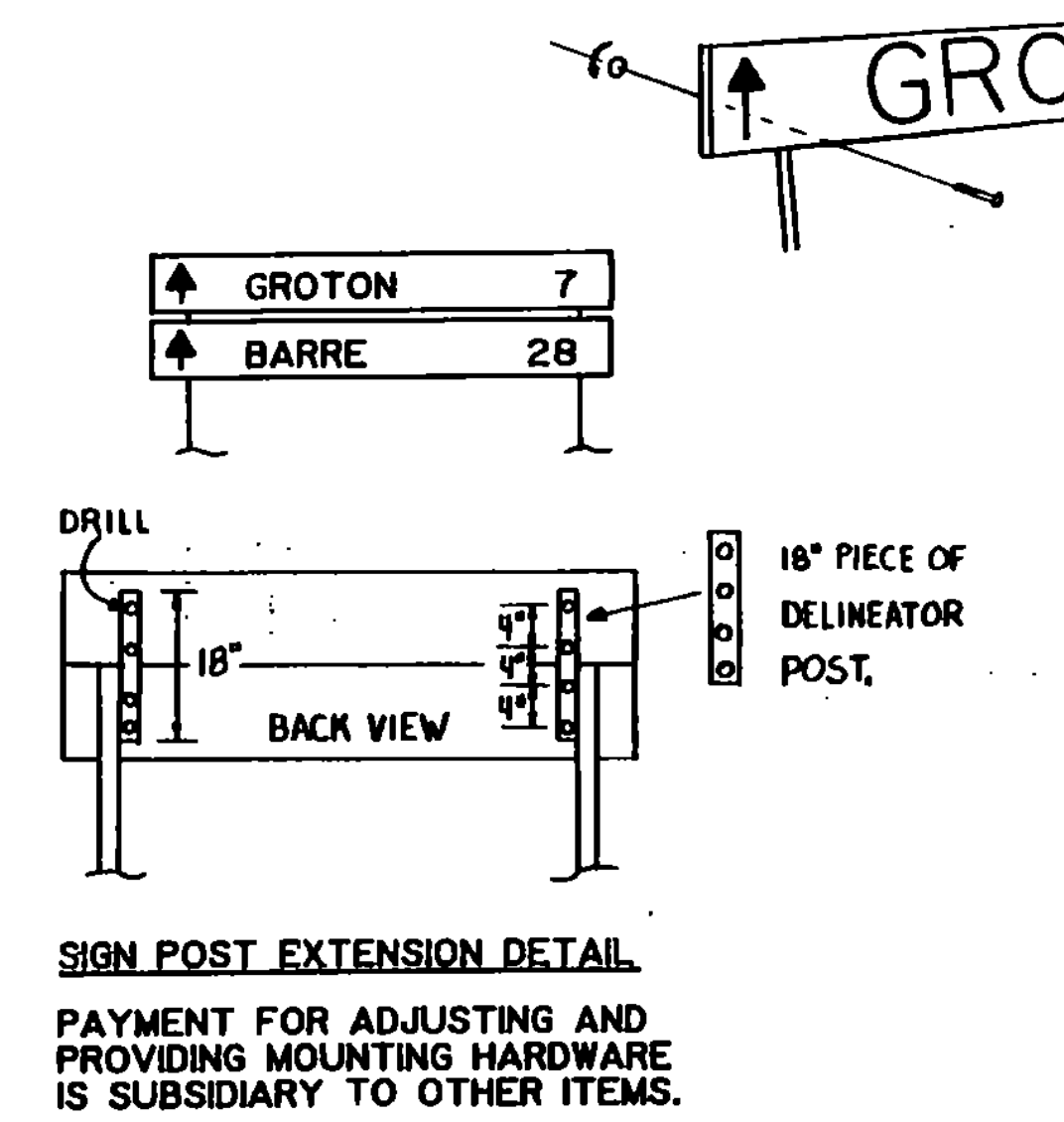
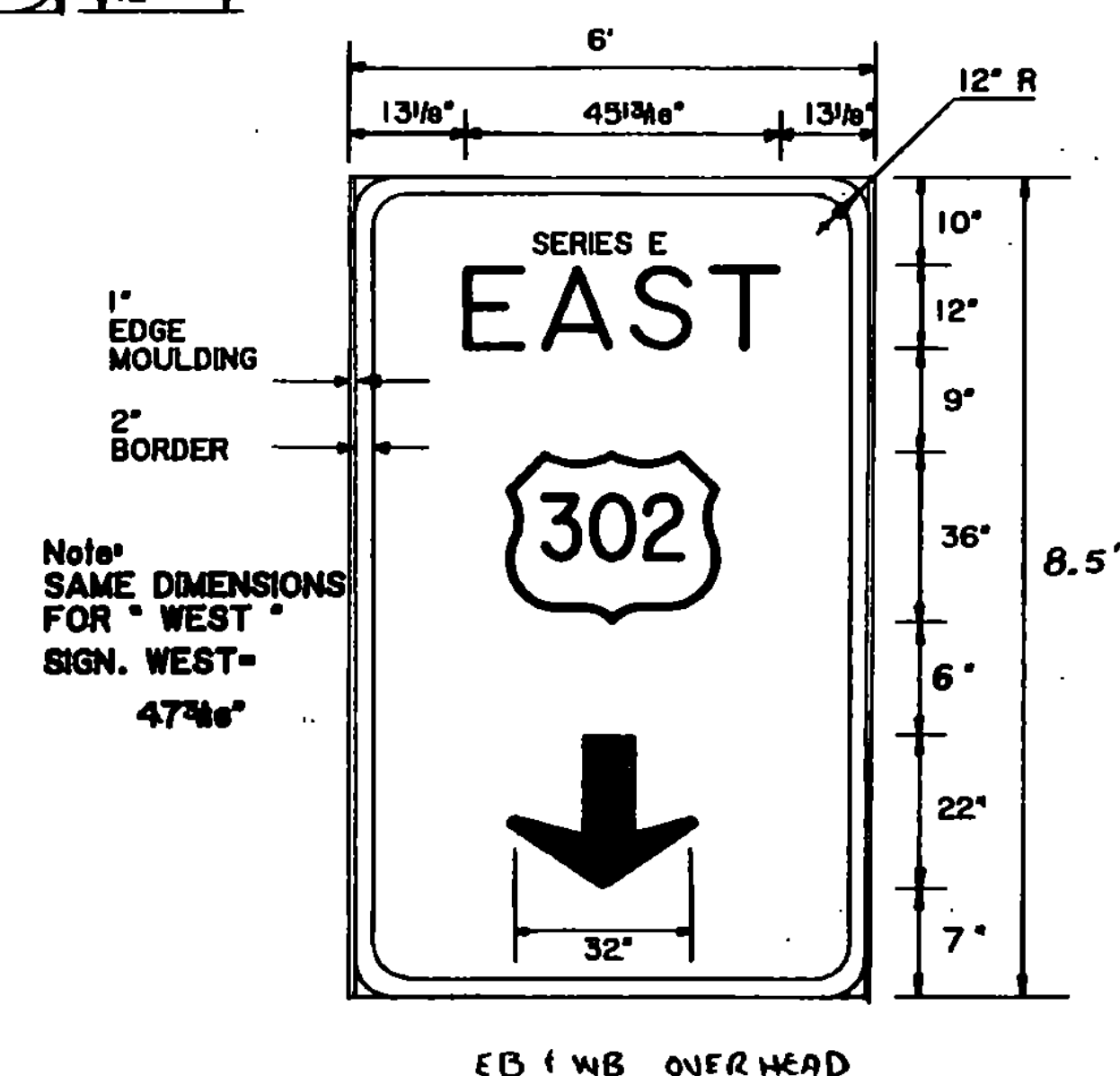
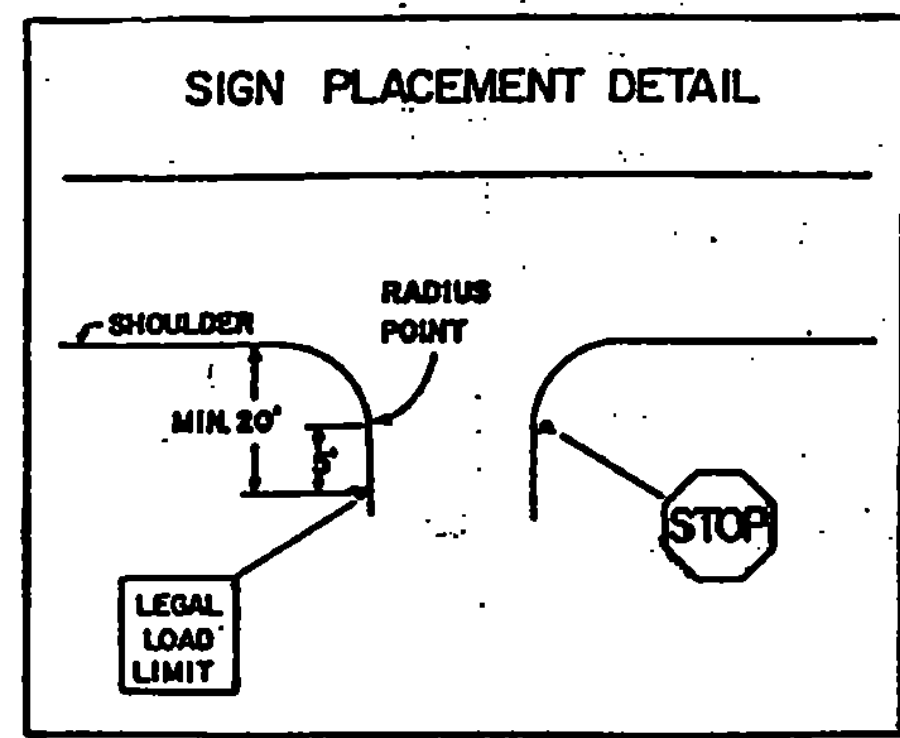
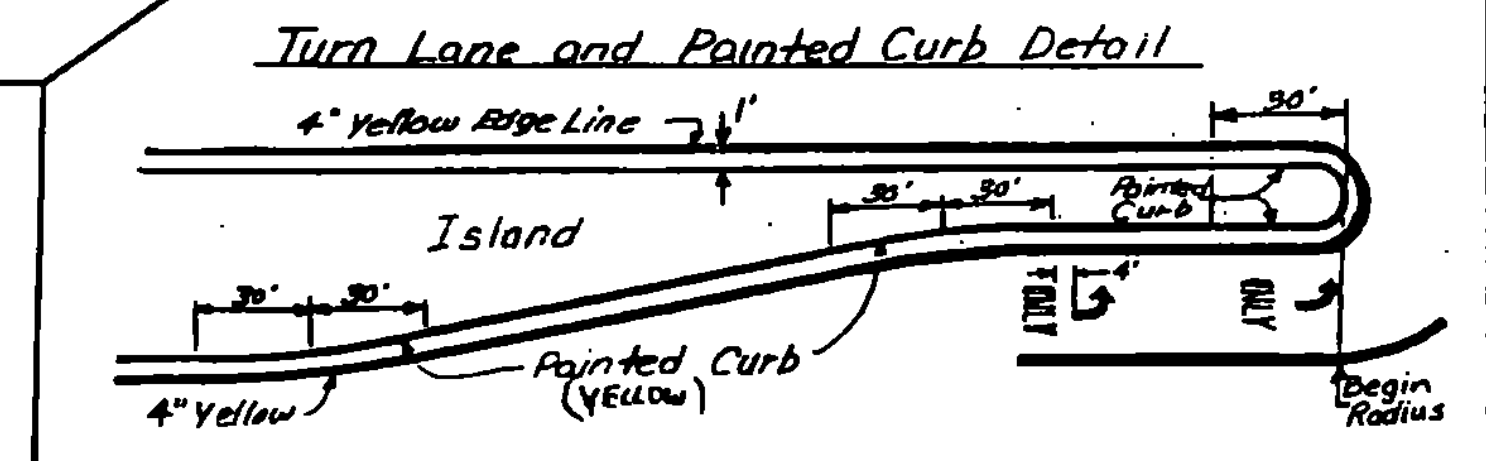
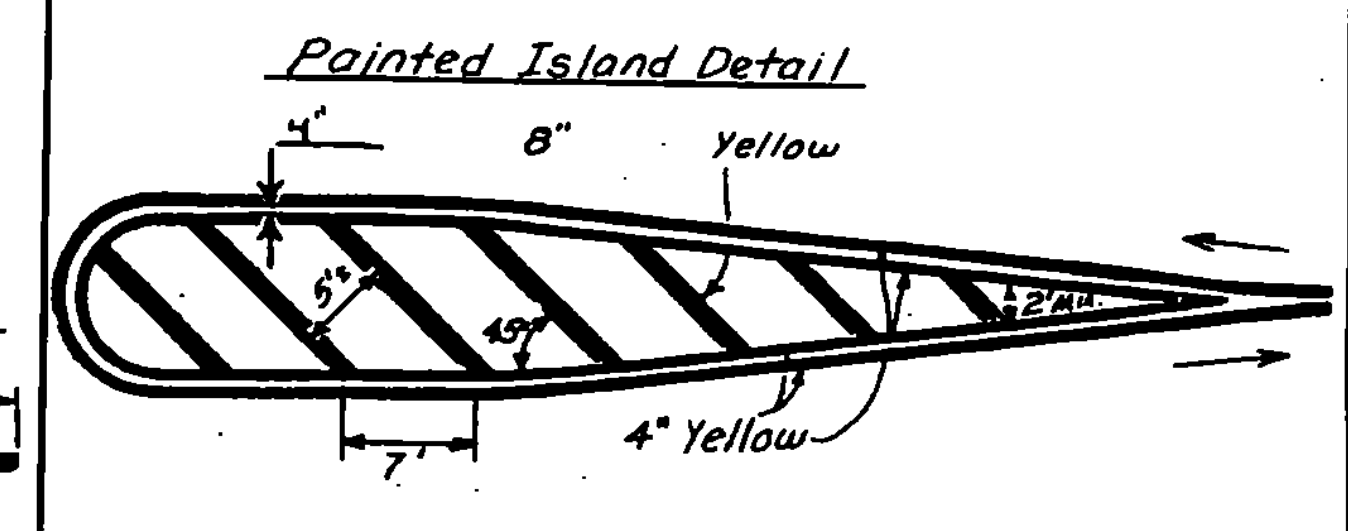
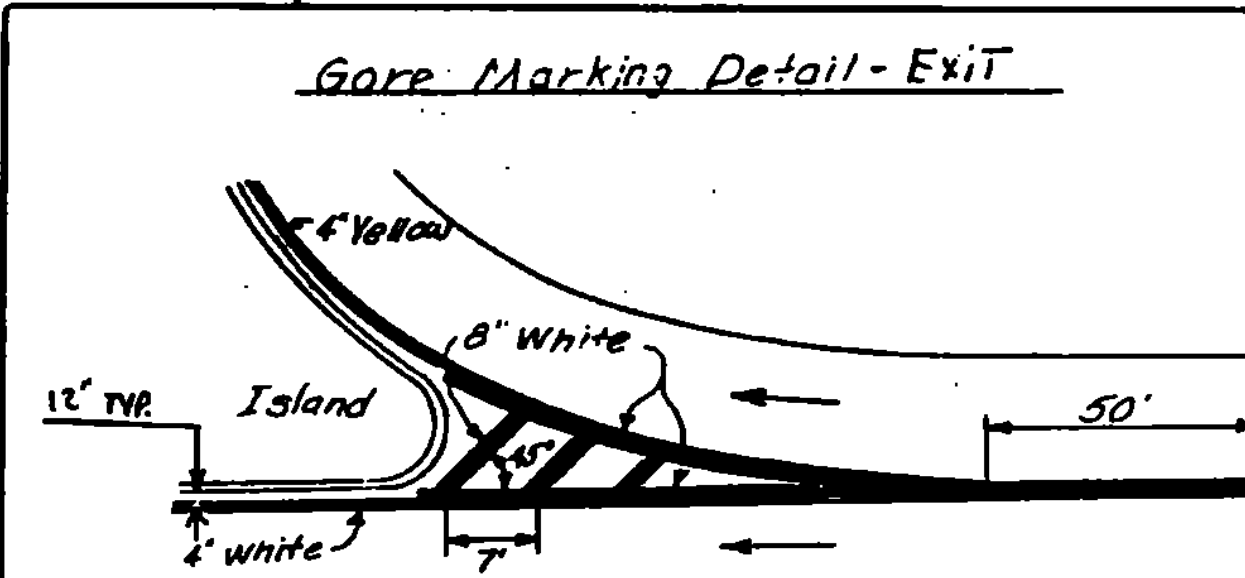
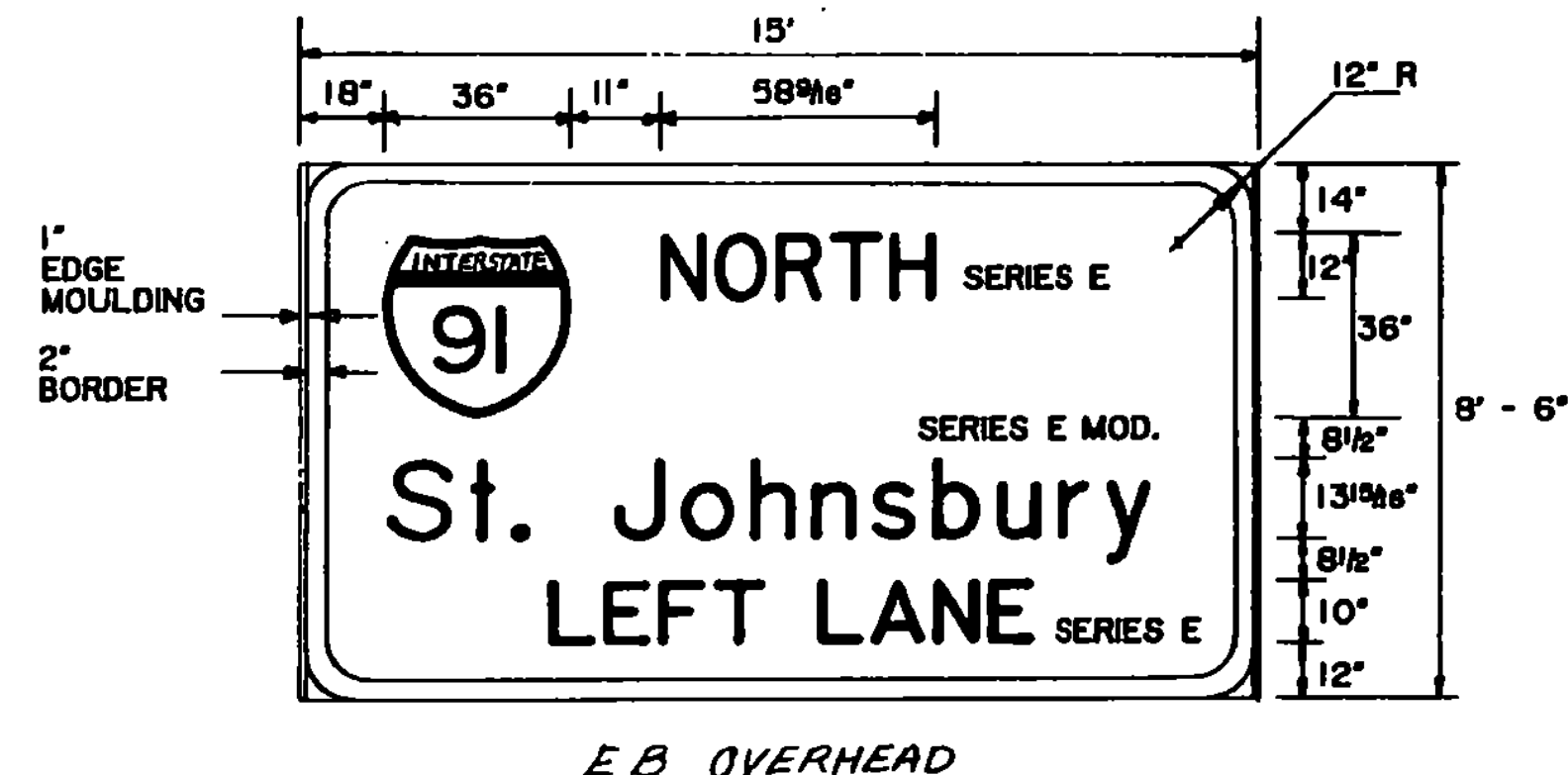
NOTE: SIGNS SHALL BE INSTALLED ON FLANGED CHANNEL STEEL POSTS. SIGN MAY BE OFF-SET FROM POST SO THAT THE EDGE OF SIGN IS DIRECTLY OVER THE ROADWAY HAZARD.

PLACEMENT OF OBJECT MARKERS

OBJECT MARKER NOTE: OBJECTS NOT ACTUALLY IN THE ROADWAY MAY BE SO CLOSE TO THE EDGE OF THE ROAD THEY NEED A MARKER. THESE INCLUDE UNDERPASS PIERS, BRIDGE ABUTMENTS, HAND RAILS, AND CULVERT WALLS. IN SOME CASES THERE MAY NOT BE A PHYSICAL OBJECT INVOLVED, BUT OTHER ROAD-SIDE CONDITIONS SUCH AS NARROW SHOULDER DROP OFFS, GORES, SMALL ISLAND OR ABRUPT CHANGES IN THE ROADWAY MAY MAKE IT UNDESIRABLE FOR A DRIVER TO LEAVE THE ROADWAY. OBJECT MARKERS ARE INTENDED FOR USE AT SUCH LOCATIONS. THE INSIDE EDGE OF THE MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION, IF POSSIBLE.



ALL TYPE B SIGNS SHALL HAVE ENCAPSULATED LENS LEGEND AND BACKING. BACKGROUND: GREEN TEXT & BORDER } WHITE
SEE STD. E-131 FOR OTHER MATERIALS NOTES.



SIGN DETAIL SHEET

SURVEYED BY _____ DATE _____

DRAWN BY _____ DATE _____

TRACED BY _____ DATE _____

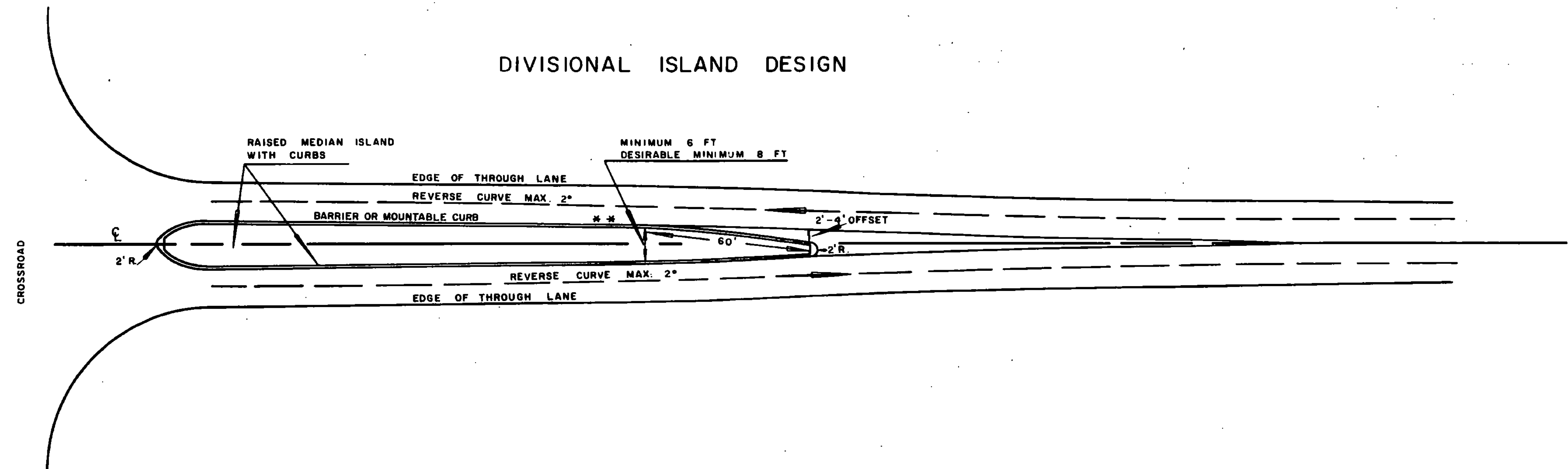
NEWBURY

F 026-1 (31) S F 026-2 (3) S

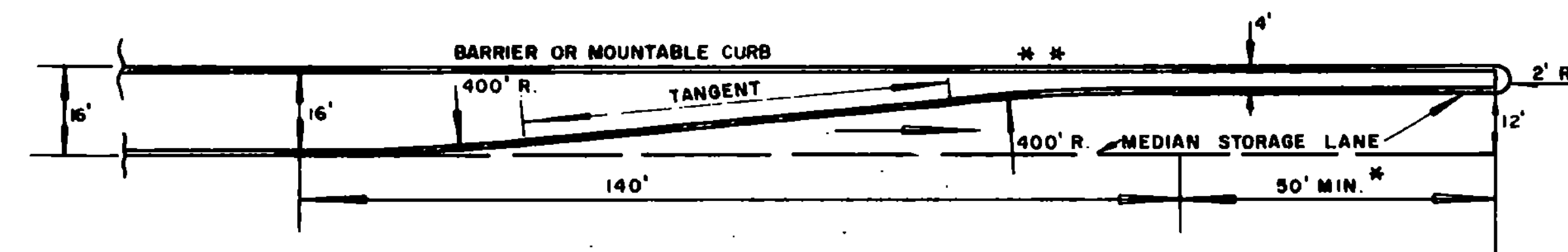
TRAFFIC SHEET NO. 510 OF 510

SHEET 15 OF 43

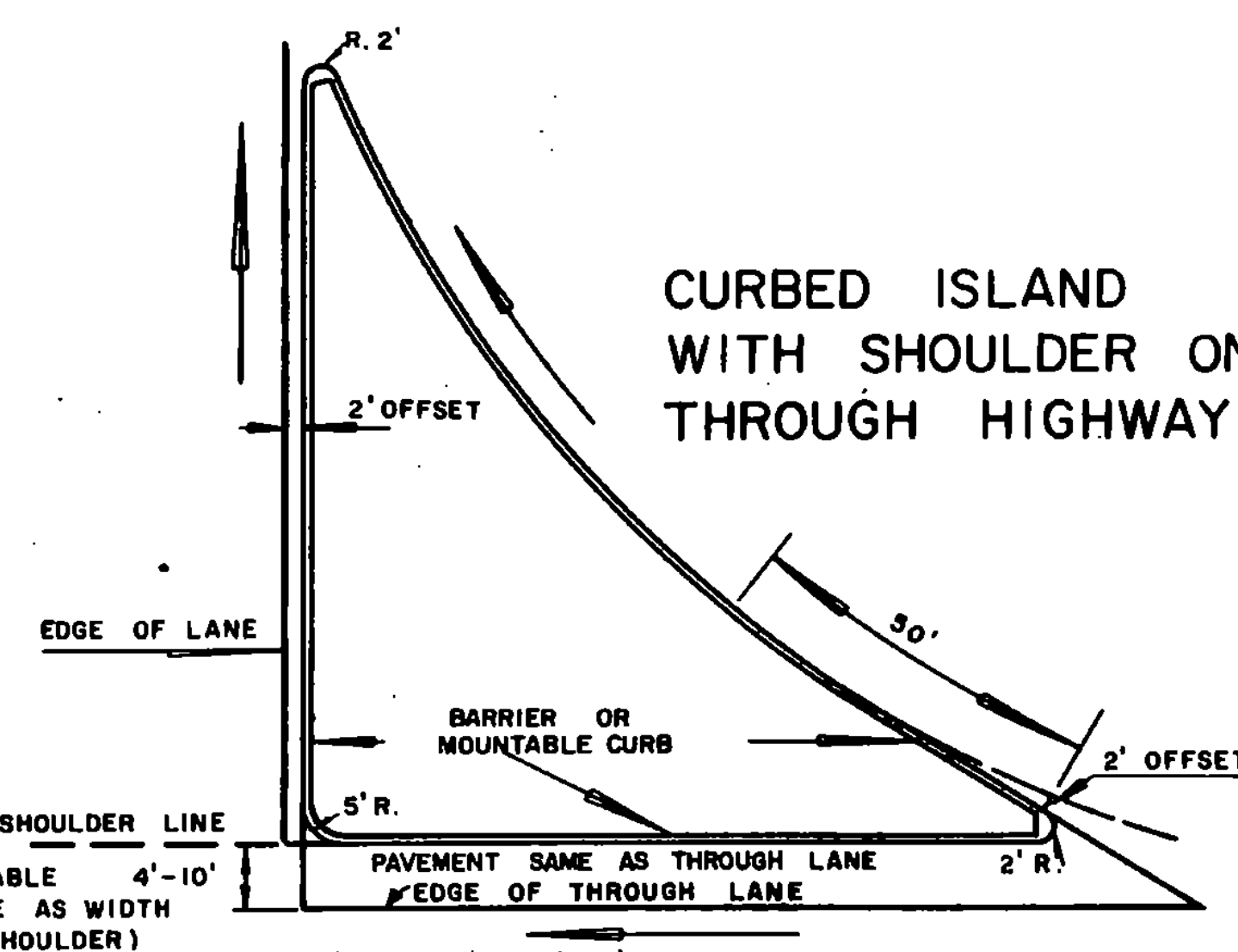
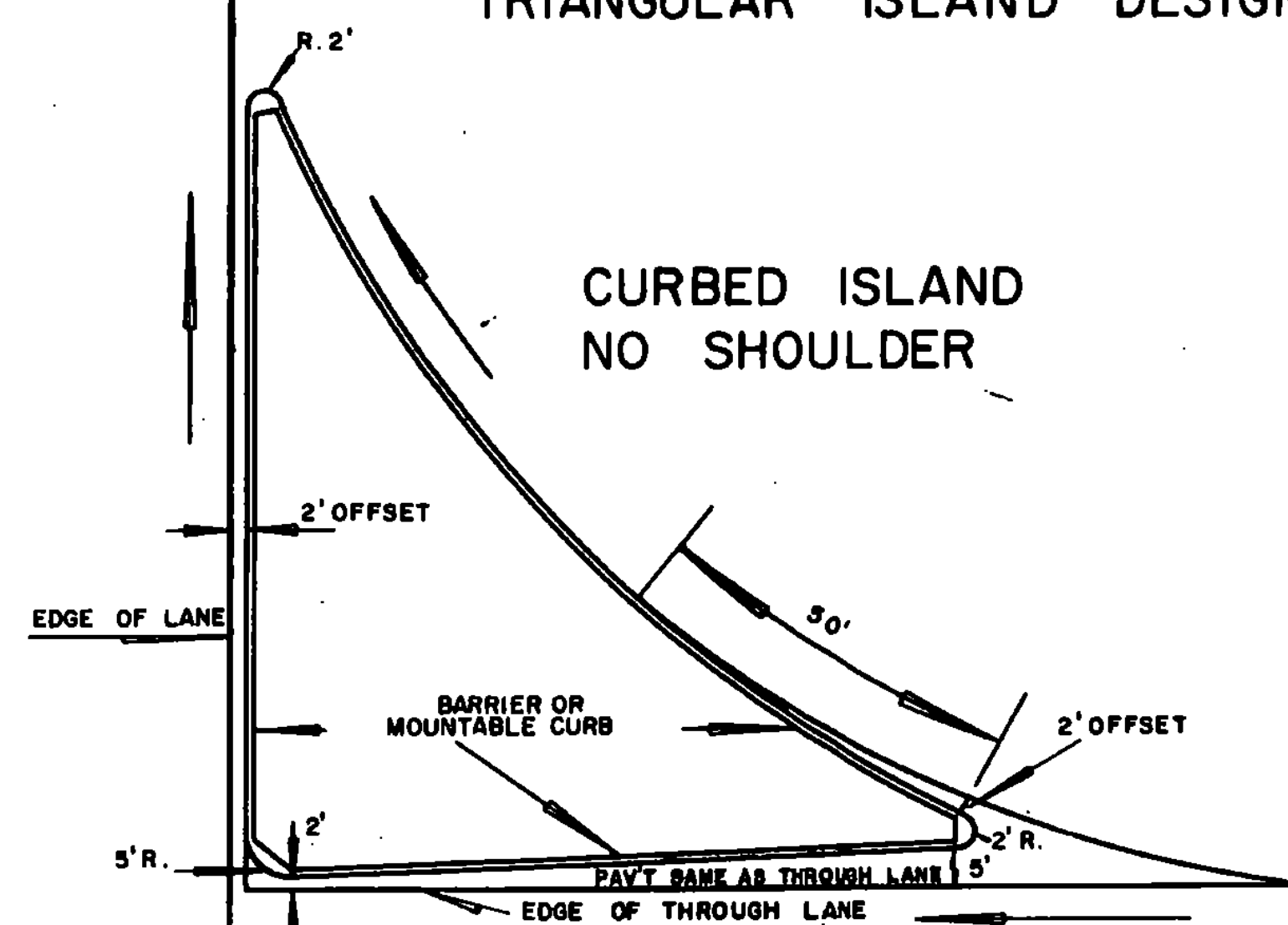
DIVISIONAL ISLAND DESIGN



DESIGN OF MEDIAN STORAGE LANE TAPER (SEE NOTE #3)



TRIANGULAR ISLAND DESIGN



- * REFER TO A.A.S.H.O. POLICY ON GEOMETRIC DESIGN OF RURAL HIGHWAYS PAGE 433
- ** BARRIER CURB TO BE USED IN URBAN AREAS WHERE PEDESTRIAN MOVEMENT ACROSS MEDIAN IS HEAVY. OTHERWISE MOUNTABLE CURB TO BE USED.
- WHERE THROUGH TRAFFIC VOLUMES AND SPEEDS ARE HIGH, THE MEDIAN LANE AND TAPER SHALL HAVE AT LEAST THE LENGTH SHOWN IN TABLE VII - 10, PAGE 361 A.A.S.H.O. POLICY ON GEOMETRIC DESIGN OF RURAL HIGHWAYS AND THE VALUES GIVEN FOR A STOP CONDITION SHALL APPLY. IF THE LEFT TURNING VOLUME IS HIGH, ADDITIONAL STORAGE LENGTH SHALL BE PROVIDED.

REVISIONS AND CORRECTIONS

APPROVED

DATE December 14, 1971

R. H. Crandall
CHIEF ENGINEER

E. H. Stickney
ASST. CHIEF ENGINEER

G. M. Lane
HIGHWAY ENGINEER

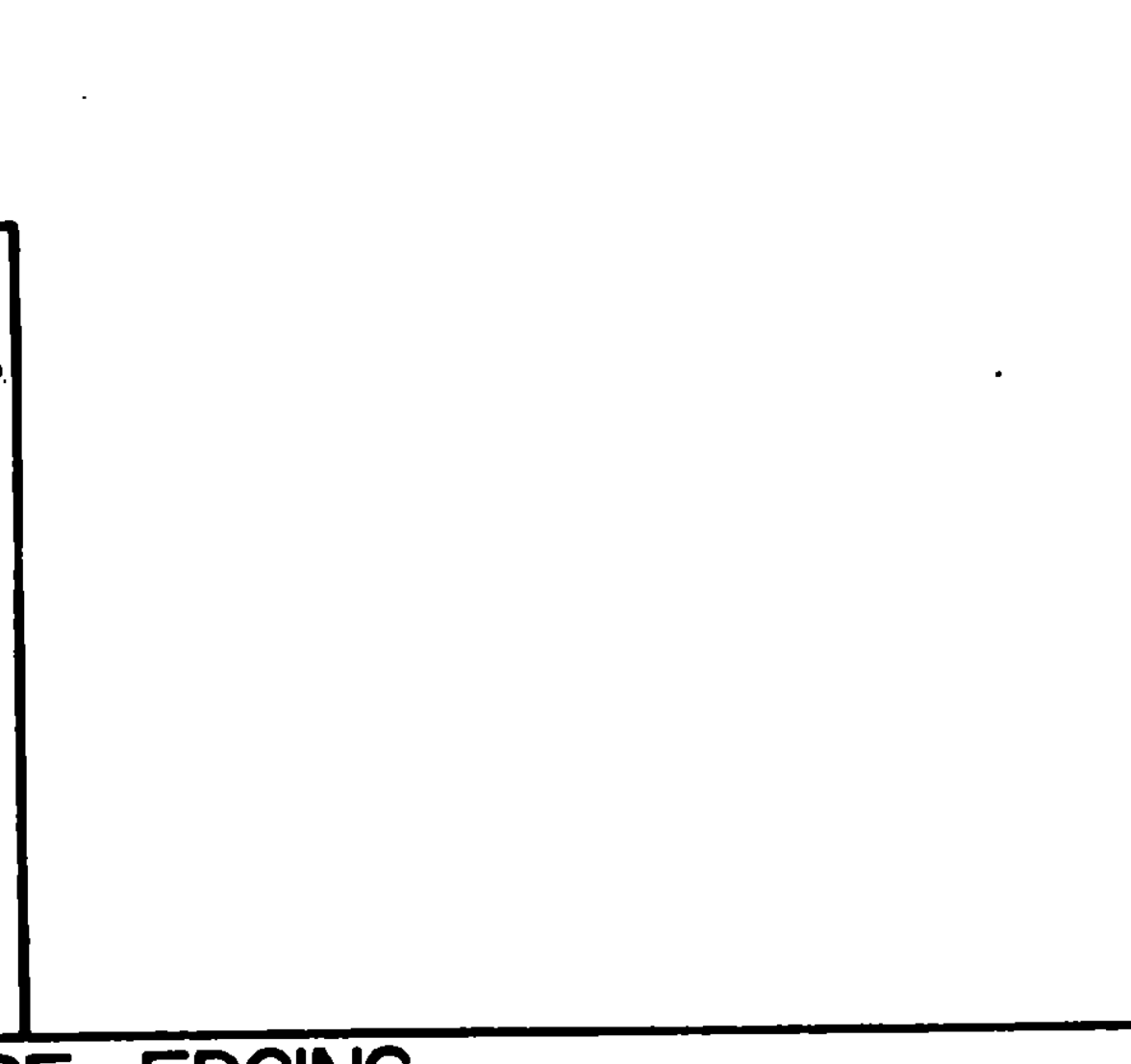
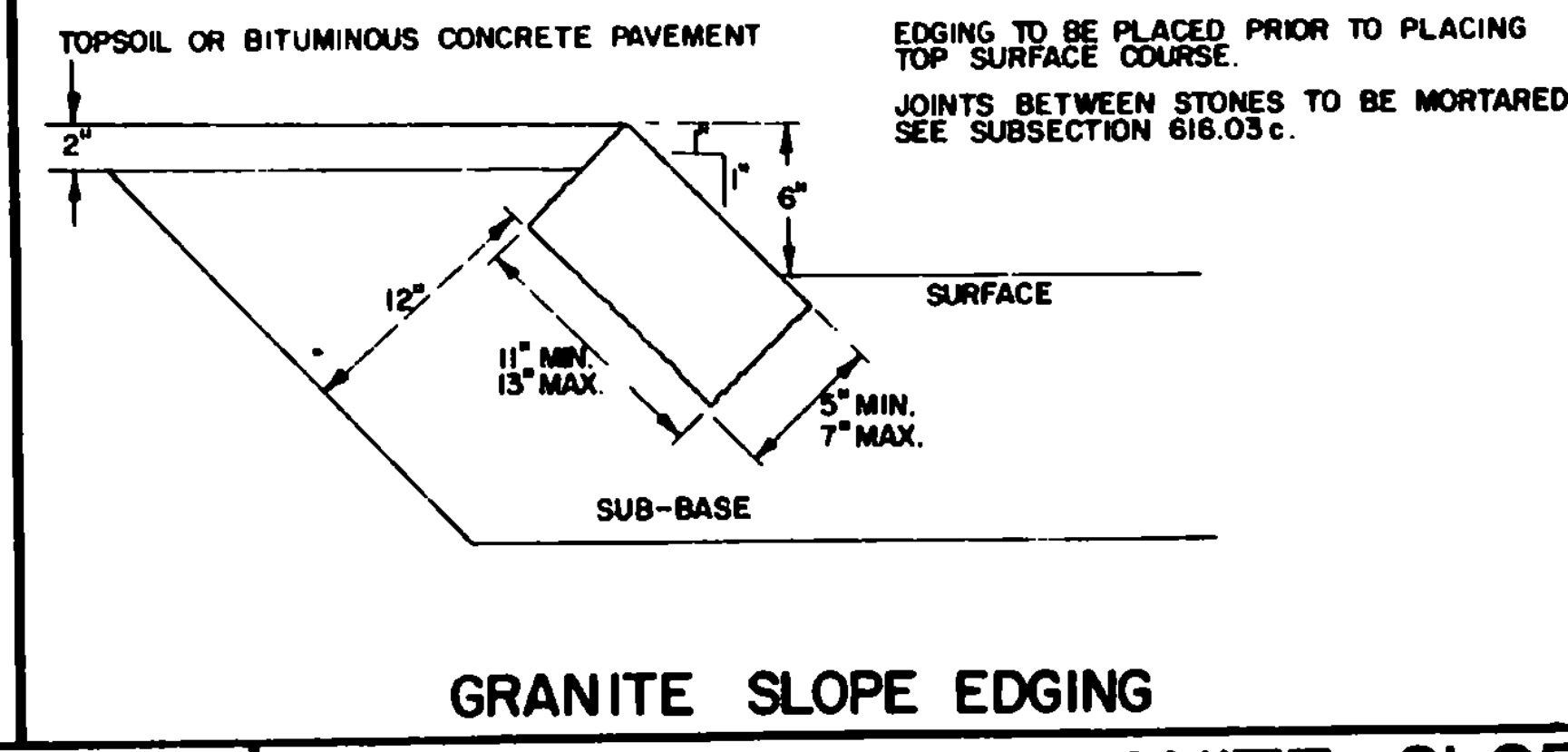
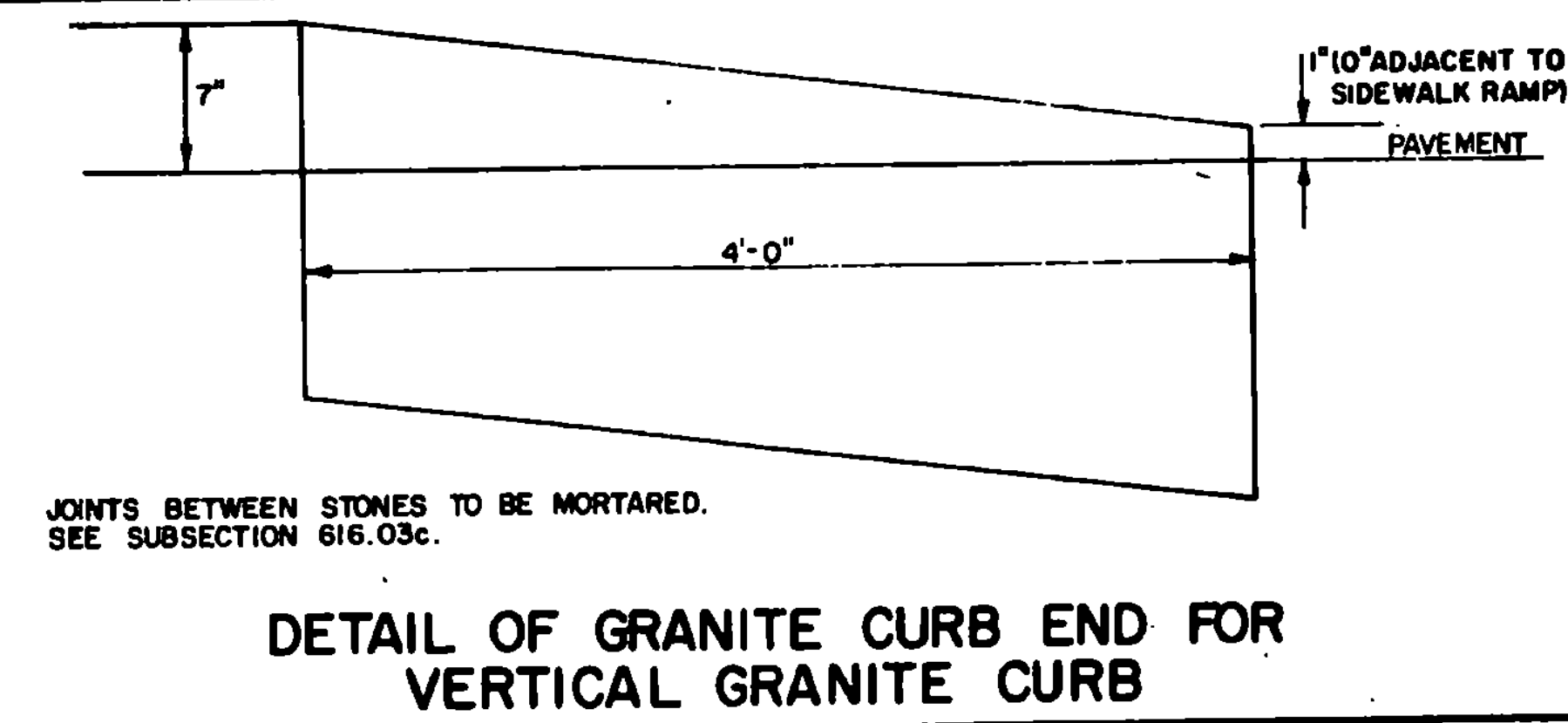
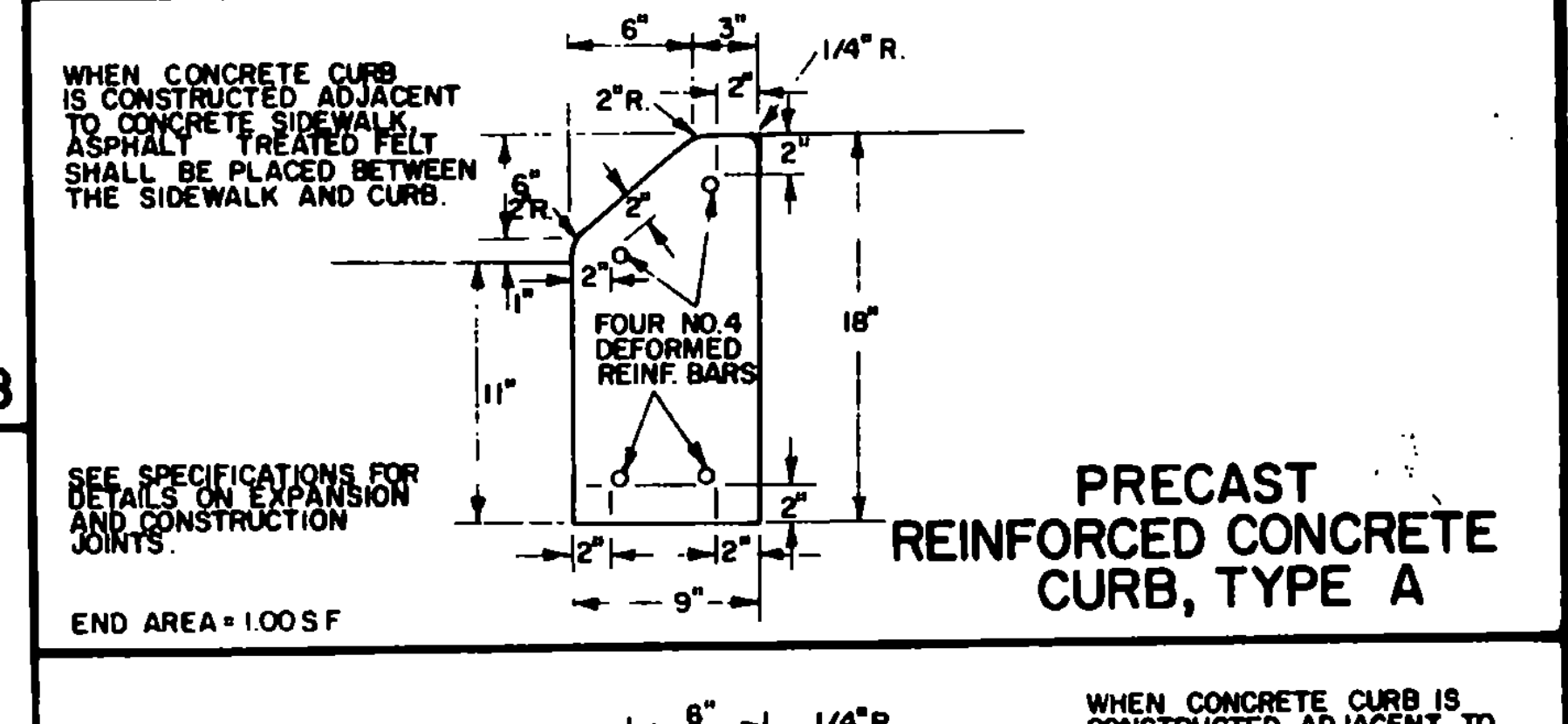
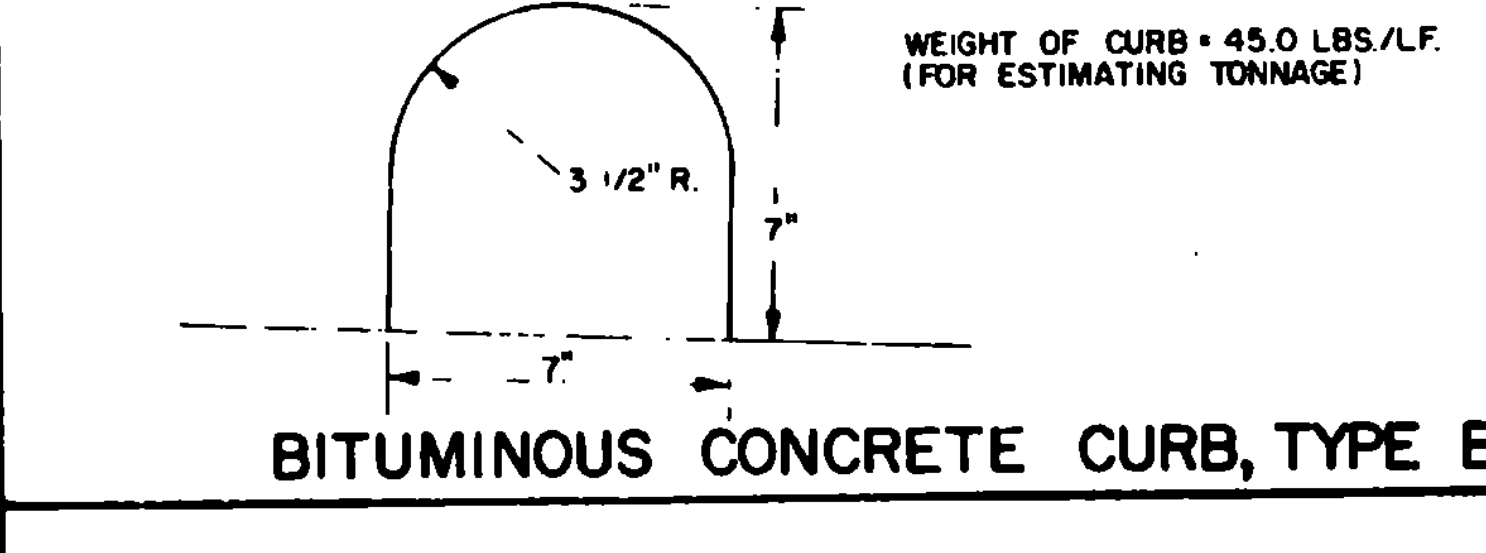
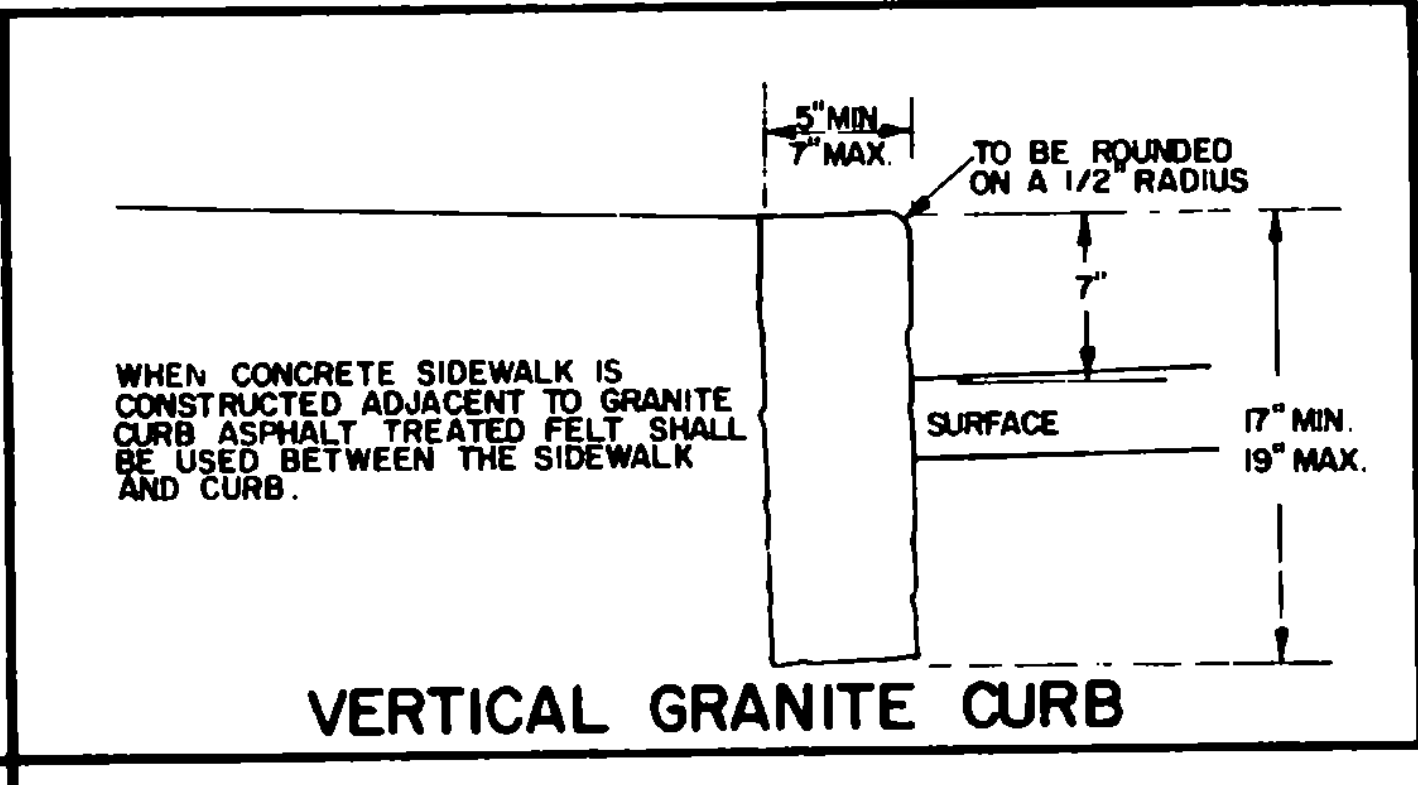
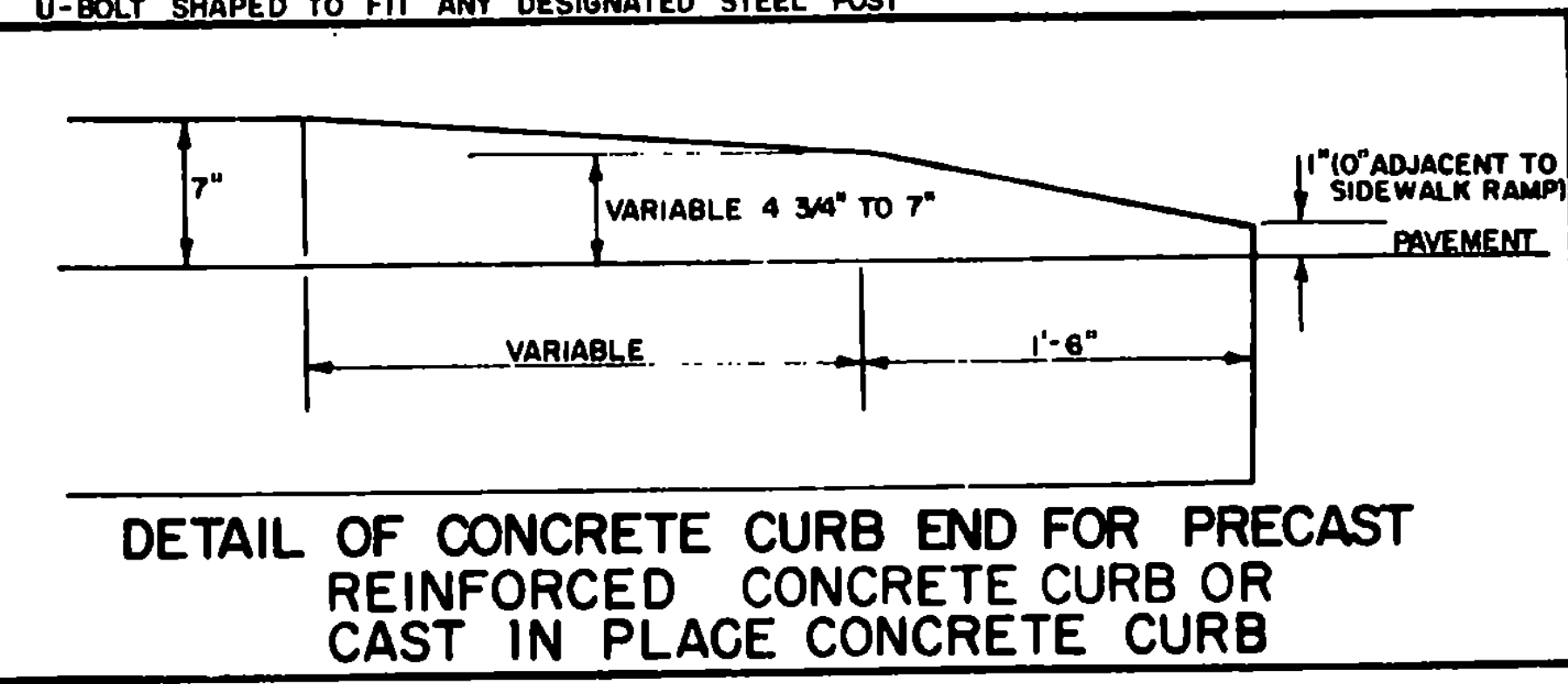
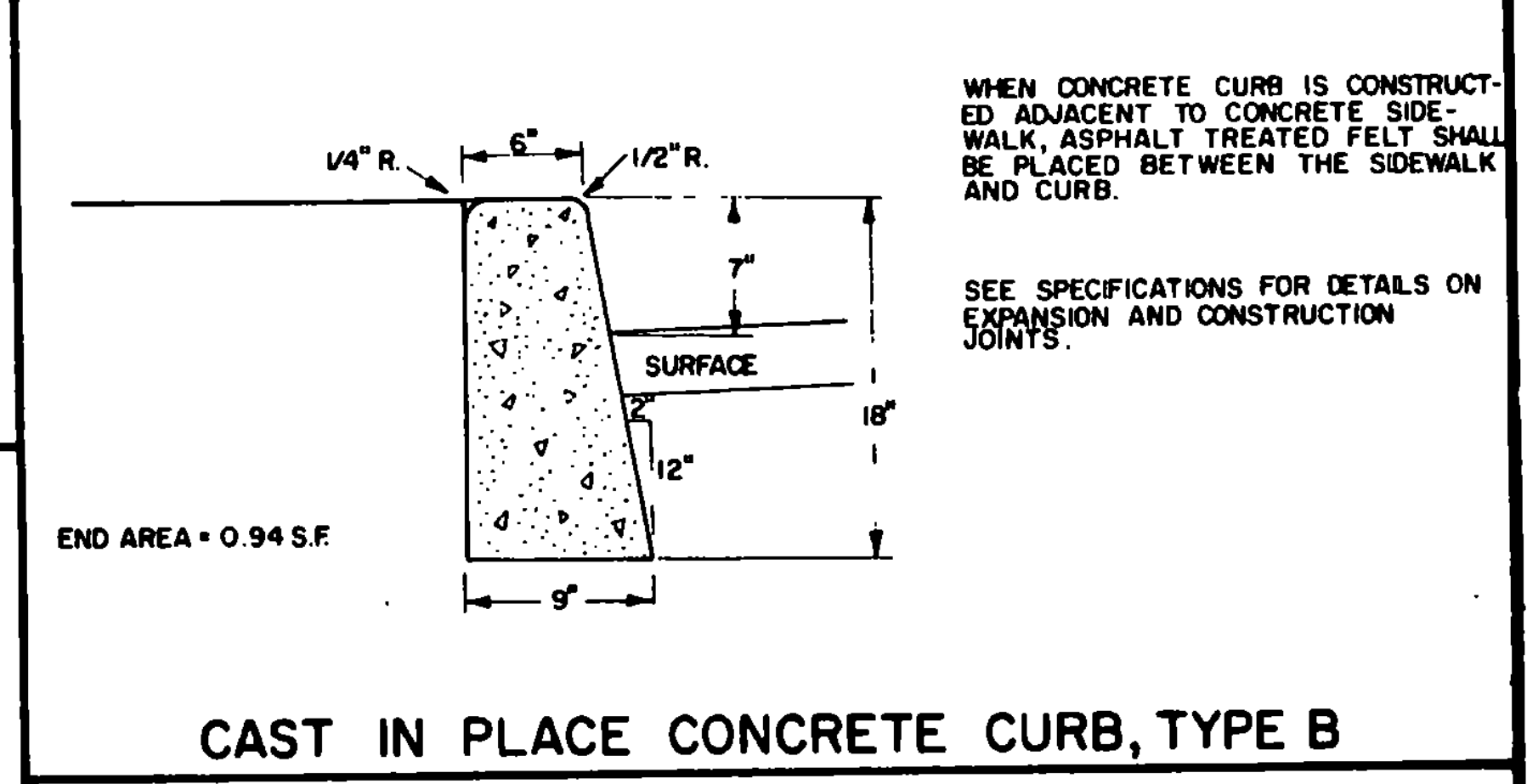
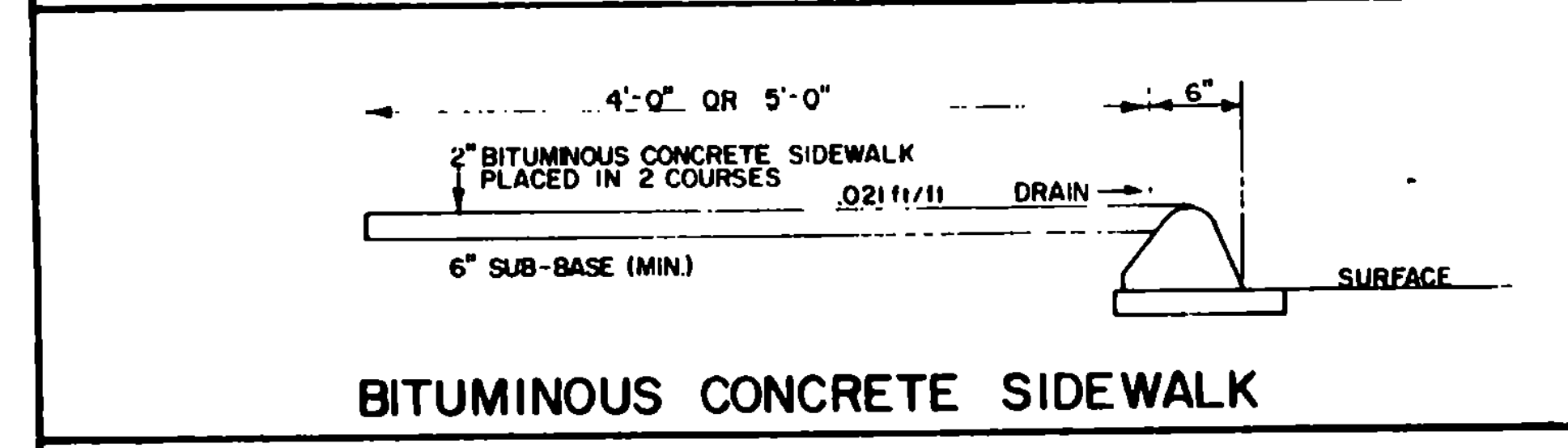
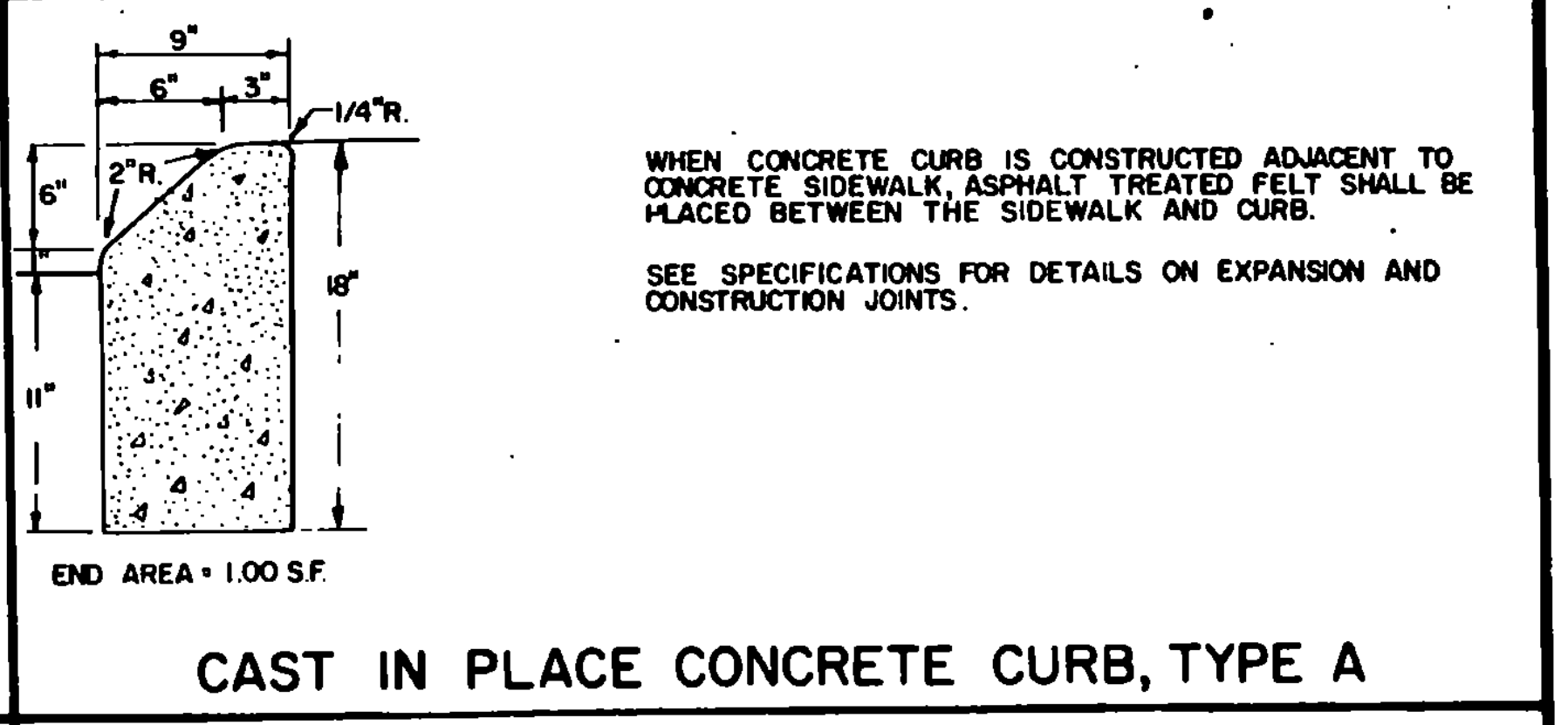
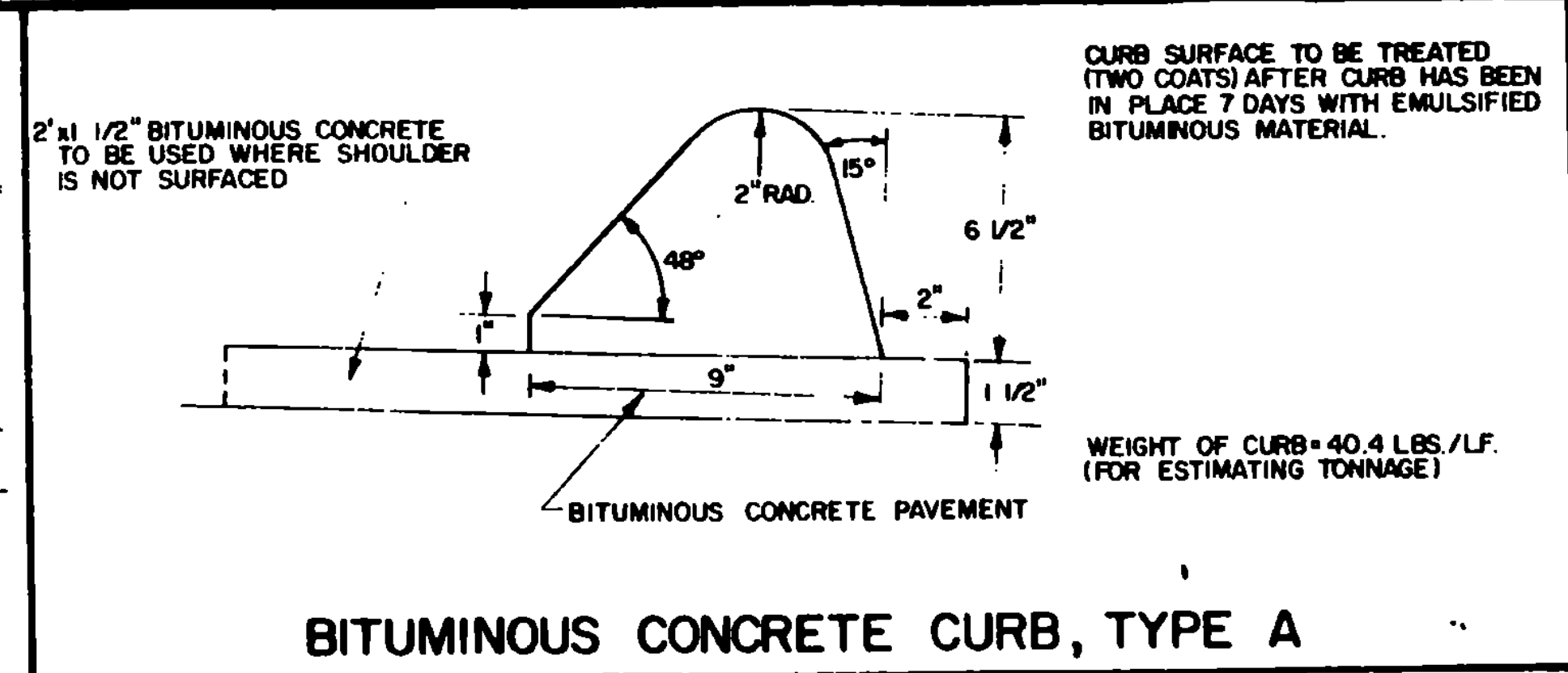
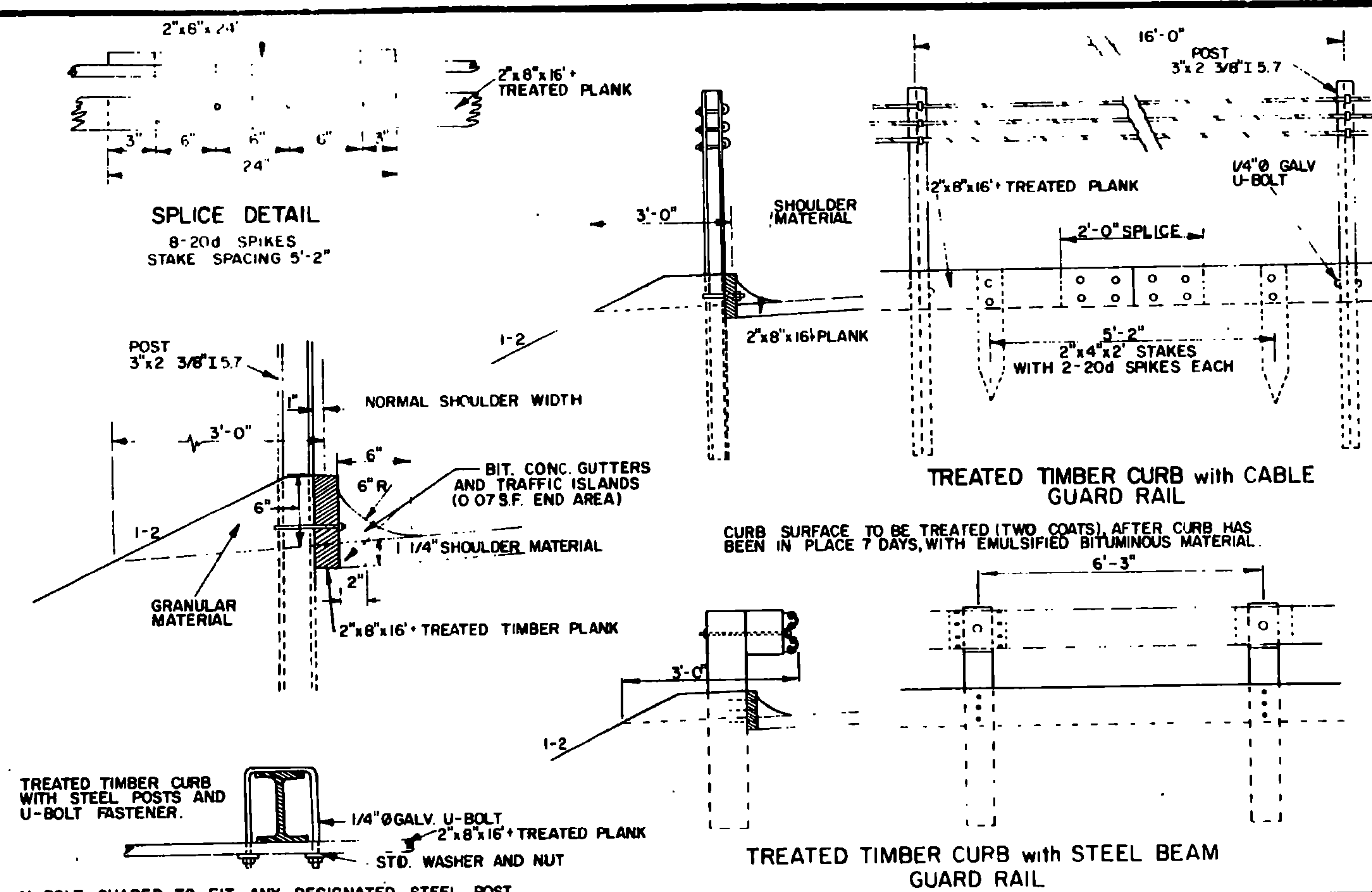
DRAWN: J.O.C.
TRACED: GUS AJA

DIVISIONAL ISLAND, STORAGE LANES, AND TRIANGULAR ISLAND DESIGNS



DEPARTMENT
OF HIGHWAYS
STANDARD

B-16



REVISIONS AND CORRECTIONS

AUG. 30, 1973 - TREATED TIMBER PLANK INCREASED TO 8" SIZE.

MAY 7, 1976 - TREATED TIMBER CURB HEIGHT INCREASED FROM 4 1/2" TO 6".

DEC. 16, 1980 - INCREASED SHOULDER WIDENING FOR GUARD RAIL.

OCT. 25, 1985 - REVISED TO CONFORM TO 1986 SPECIFICATIONS REPLACED DETAILS OF TIMBER CURB WITH 2 CABLE GUARD RAIL TO ONE WITH STEEL BEAM GUARD RAIL.

APPROVED:

DATE: Dec. 8, 1971

R. H. Arnold
CHIEF ENGINEER

E. H. Stechney
ASST. CHIEF ENGINEER

G. M. Lane
HIGHWAY ENGINEER

GRANITE SLOPE EDGING

VERTICAL GRANITE CURB

PRECAST REINFORCED CONCRETE CURB

CAST IN PLACE CONCRETE CURB

BITUMINOUS CONCRETE CURB

TREATED TIMBER CURB

STANDARD

C-1

STANDARD MOUNTING OF ROUTE MARKER ASSEMBLIES, DESTINATION ASSEMBLIES AND TOWN LINE POSTS

- A - CARDINAL DIRECTION MARKER
- B - ROUTE NUMBER
- C - ADVANCE TURN ARROW OR DIRECTIONAL ARROW

TRAIL
BLAZER
ASSEMBLY

JUNCTION
ASSEMBLY

STREET SIGNS:

MATERIALS

THE SIGN BASE MATERIALS USED FOR THE STREET SIGNS MAY BE EITHER OF THE FOLLOWING:
A - EXTRUDED ALUMINUM BLADES WITH REFLECTIVE SHEETING
B - FLAT ALUMINUM BLADES WITH REFLECTIVE SHEETING

COLORS

THE SIGNS SHALL HAVE A REFLECTORIZED WHITE OR SILVER TEXT (STICK ON REFLECTIVE LETTERS) 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 PRINTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

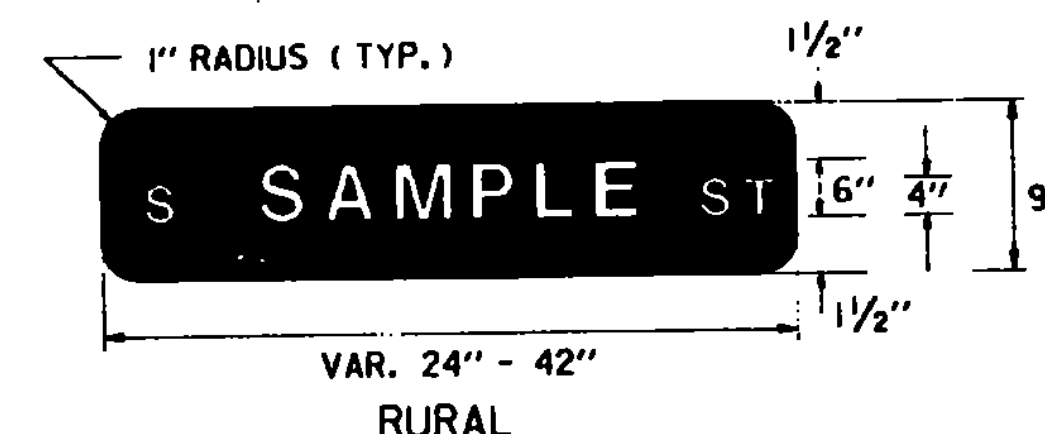
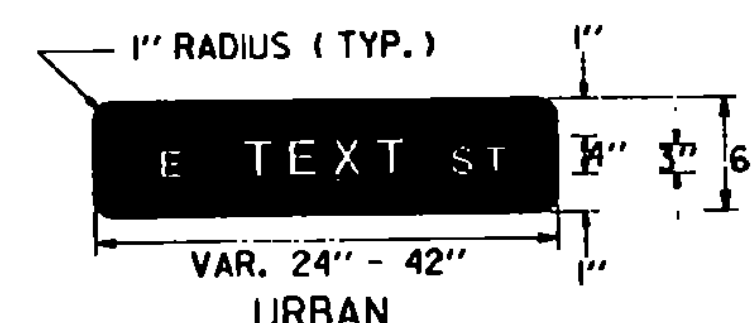
SPECIFICATIONS

THE SIGN SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR "TRAFFIC SIGNS". THE MATERIAL FOR THE BLADES SHALL BE EITHER EXTRUDED ALUMINUM WITH A 0.25 INCH FLANGE THICKNESS AND A 0.090 INCH WEBB (MIN.) OR FLAT SHEET ALUMINUM WITH A MINIMUM THICKNESS OF 0.125 INCH. THE PREFERRED MOUNTING METHOD FOR STREET SIGNS IS THE POST TOP MOUNTING BRACKETS. HARDWARE FOR MOUNTING SIGNS TO POST SHALL BE SUBSIDIARY TO OTHER ITEMS. MOUNTING METHOD WILL BE AS SHOWN ON THE PLANS AND SHOULD HAVE A VERTICAL CLEARANCE OF 8 FEET TO THE BOTTOM OF THE SIGN. FOR POST TOP MOUNTINGS, SIGNS SHALL HAVE TEXT ON BOTH SIDES.

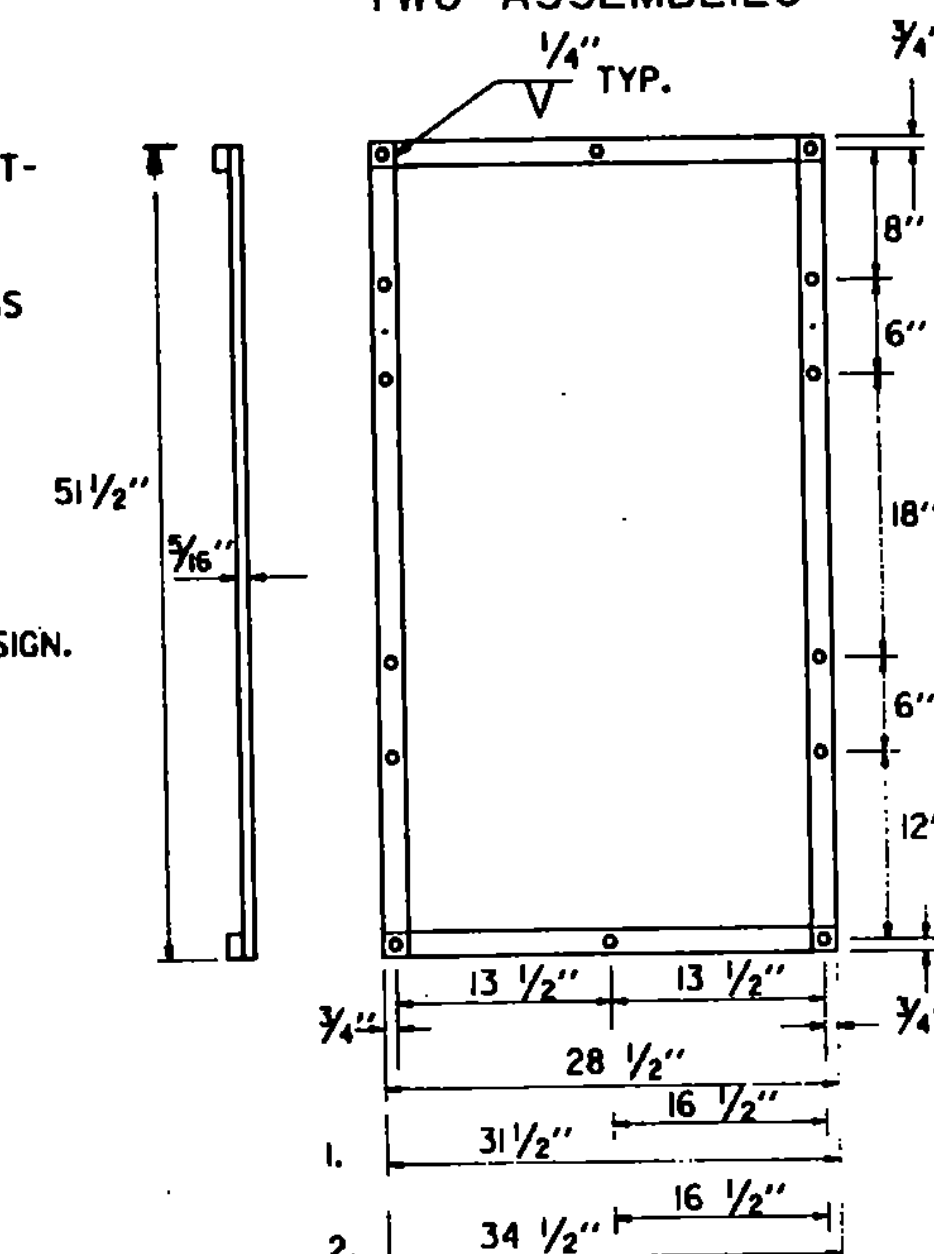
SIZES ARE AS FOLLOWS

RURAL AREAS - USE A 9 INCH HIGH BLADE IN LENGTHS OF 24", 30", 36" OR 42".
USE SERIES "B" LETTERING (MINIMUM) WITH 6 INCH HIGH LETTERS FOR STREET NAME, 4 INCH OTHER.
URBAN AREAS - USE A 6 INCH HIGH BLADE IN LENGTHS OF 24", 30", 36" OR 42".
USE SERIES "B" LETTERING (MINIMUM) WITH 4 INCH HIGH LETTERS FOR STREET NAME, 3 INCH OTHER.

DESIGN SAMPLE



FRAME FOR TWO ASSEMBLIES

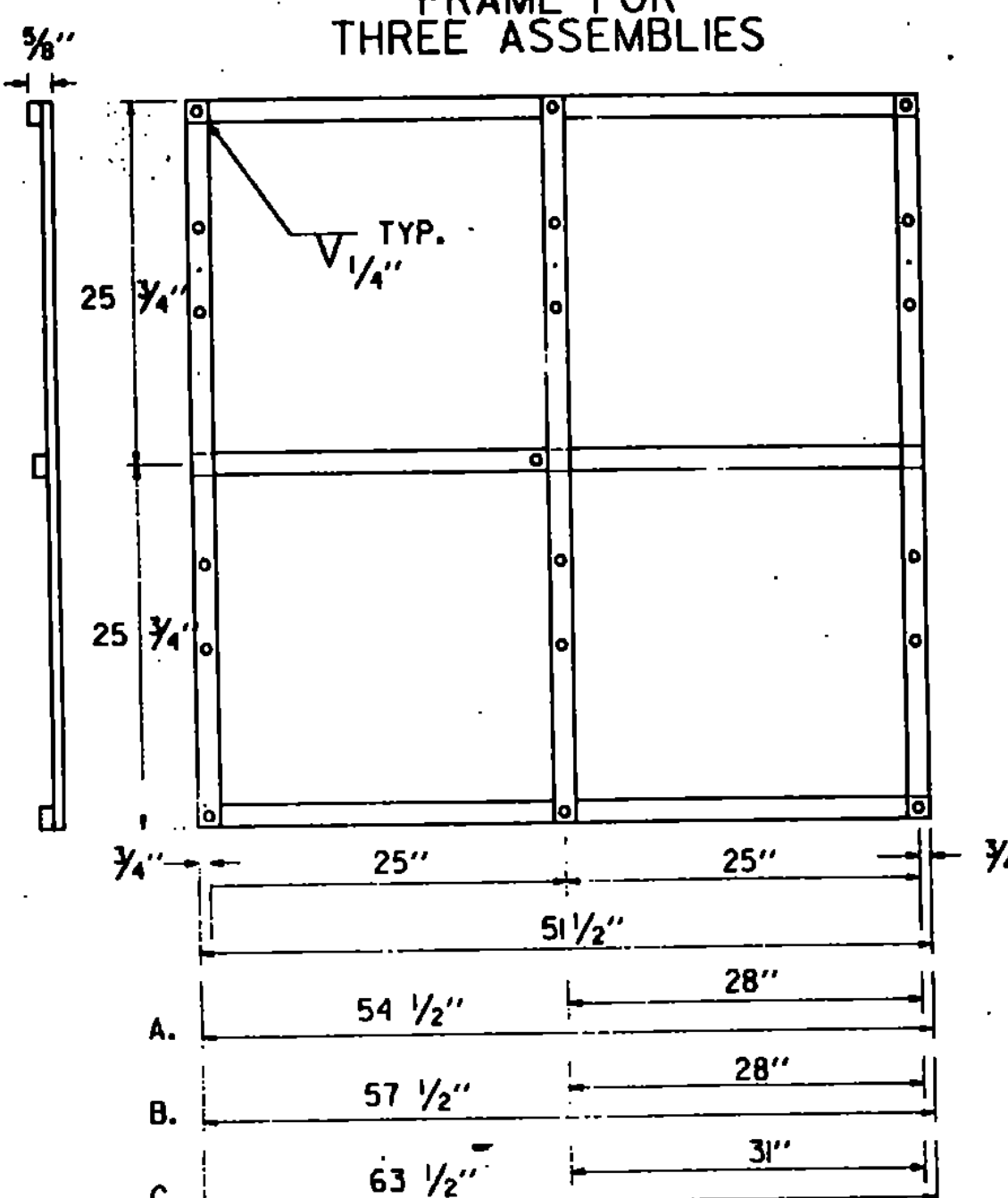


NOTE:

1. WITH ONE 30" THREE DIGIT SIGNS
2. WITH TWO 30" THREE DIGIT SIGNS

ROUTE MARKER ASSEMBLY FRAMES

FRAME FOR THREE ASSEMBLIES

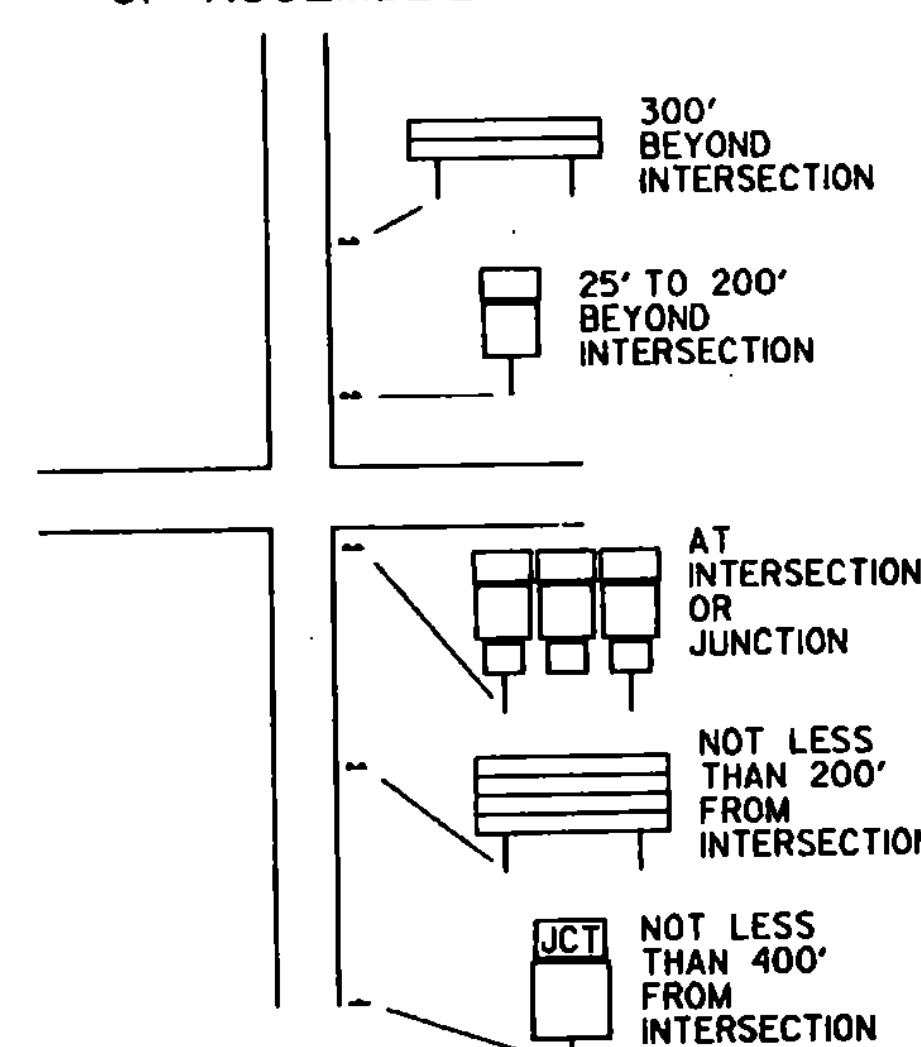


NOTE:

- A. WITH ONE 30" THREE DIGIT SIGN IN AN OUTSIDE POSITION
- B. WITH ONE 30" THREE DIGIT SIGN IN THE CENTER POSITION OR TWO SUCH SIGNS IN THE OUTSIDE POSITIONS
- C. WITH THREE 30" THREE DIGIT SIGNS

STANDARD FRAMES SHALL BE 3/8" x 1 1/2" WROUGHT IRON WELDED. ALL HOLES SHALL BE 1/8" DIAMETER. FOR OTHER SIGN COMBINATIONS THAN ABOVE, THE FRAME DIMENSIONS AND HOLE SPACING SHALL BE MODIFIED AS NECESSARY. THE FRAME SHALL BE PAINTED WITH ONE COAT OF PRIMER AND A SECOND COAT OF GOOD GRADE BLACK PAINT.

TYPICAL LOCATION OF ASSEMBLIES



ROUTE AND DESTINATION SIGNS:

MATERIALS

THE SIGN BASE MATERIAL FOR STANDARD DESTINATION SIGNS SHALL BE HIGH DENSITY OVERLAIN PLYWOOD 5/8 INCH THICK OR FLAT SHEET ALUMINUM 0.125 INCH THICK. THE REFLECTIVE MATERIAL SHALL BE GREEN REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN. THE TEXT SHALL BE CUT-OUT REFLECTORIZED WHITE OR SILVER LETTERS.

COLORS

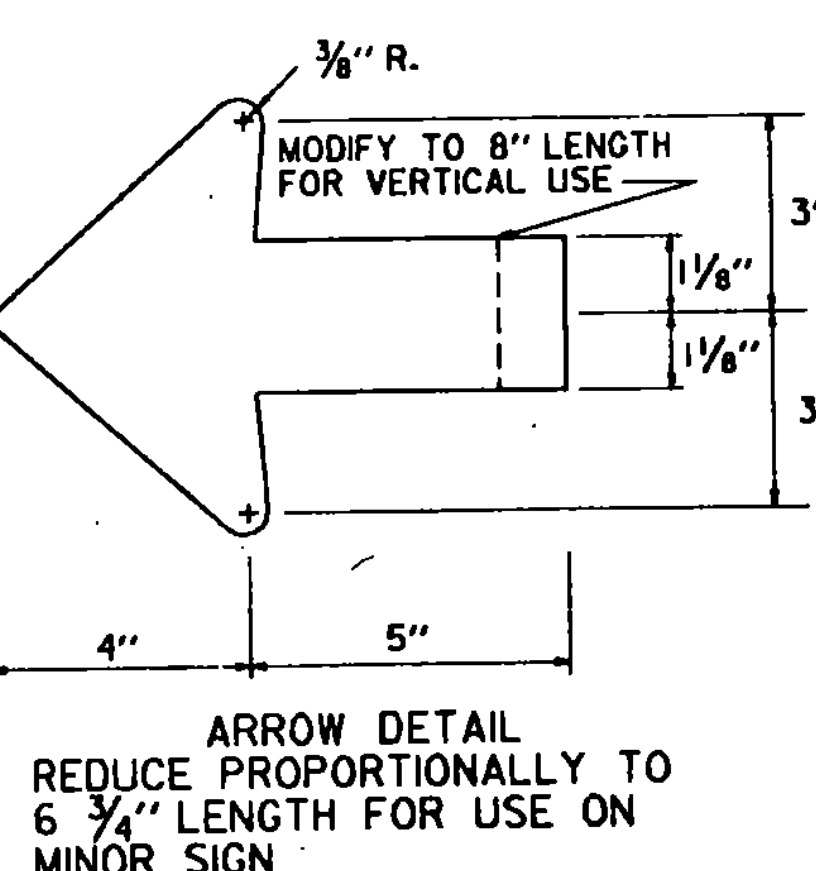
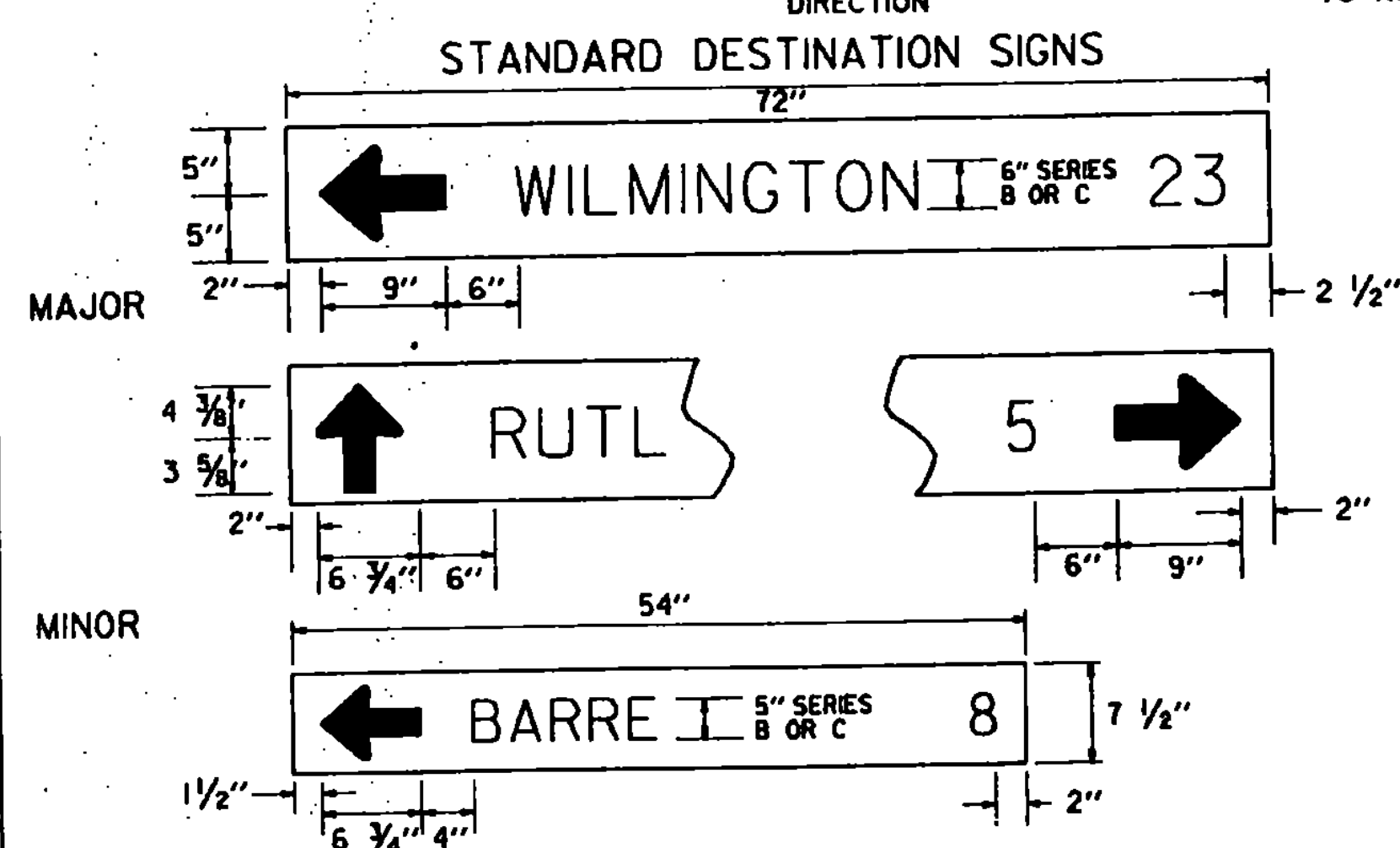
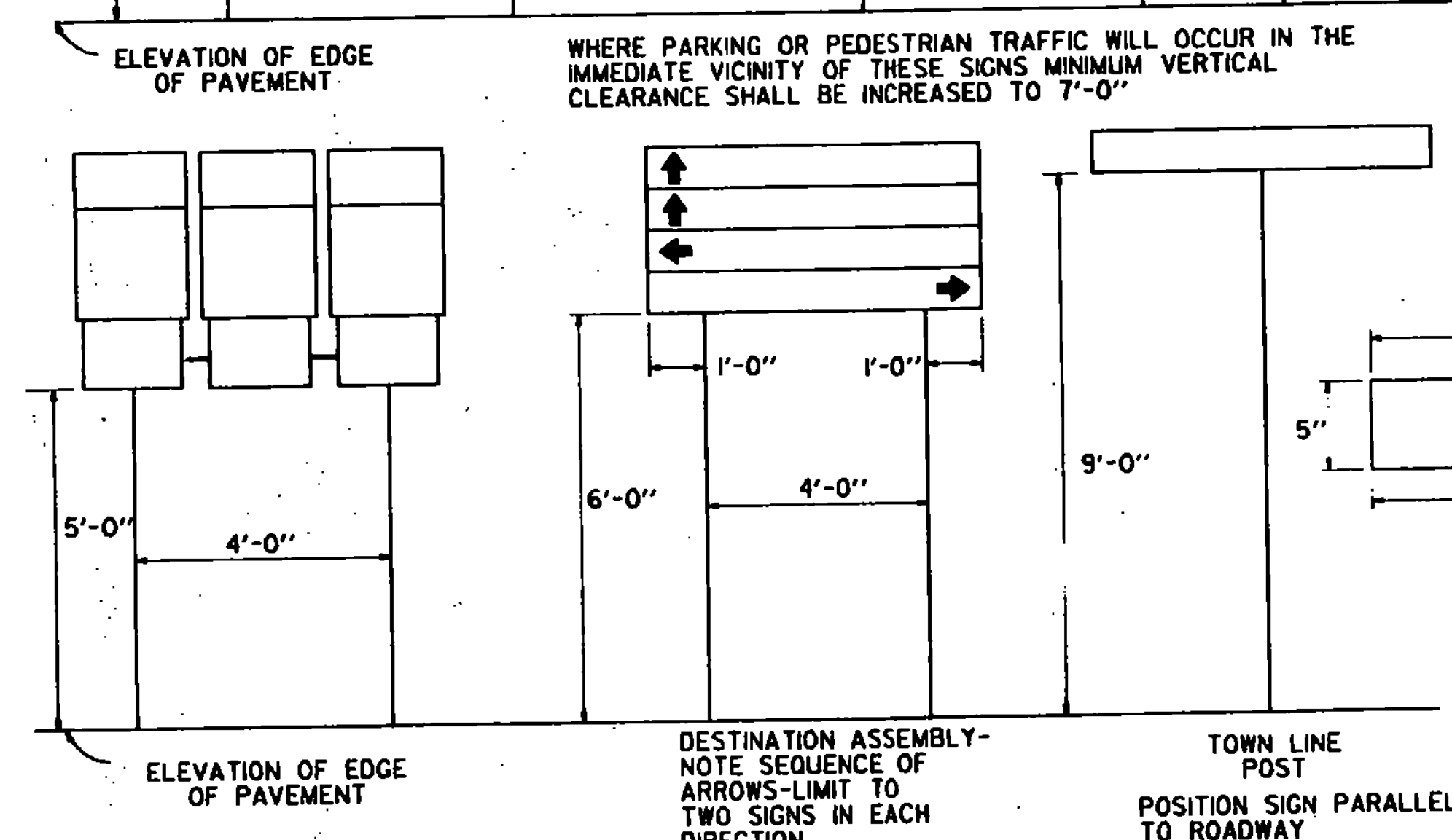
DESTINATION SIGNS SHALL HAVE A REFLECTORIZED WHITE OR SILVER TEXT ON A REFLECTORIZED GREEN BACKGROUND.

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

DESTINATION SIGNS SHALL MEET THE STATE SPECIFICATIONS FOR "TRAFFIC SIGNS". FOR DESIGNS, COLORS OR MATERIALS OF ROUTE MARKERS AND AUXILIARY MARKERS, SEE STANDARD SHEETS E-11, E-12, AND E-13.



REVISIONS AND CORRECTIONS

12/1/82
ADDED 2 FRAME ASSEMBLY TO 2 POST ASSEMBLY
ADDED MINOR DESTINATION SIGN, MOUNTING HEIGHT
REVISED
2/10/83
SIGN HEIGHT CHANGED TO 7 FT.
FEB. 3, 1986 - UPDATED TO 1986
SPECIFICATIONS
DEC. 3, 1986 MAJOR REVISIONS

APPROVED:

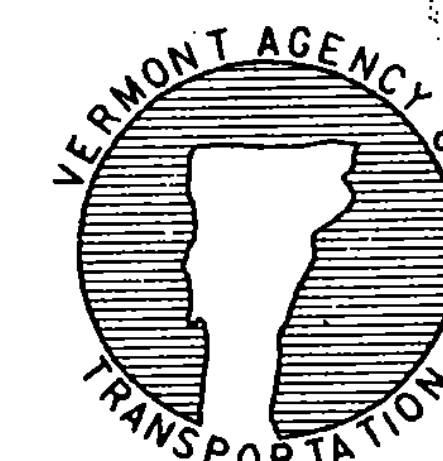
Dec 29, 1971

R.H. Arnold
CHIEF ENGINEER

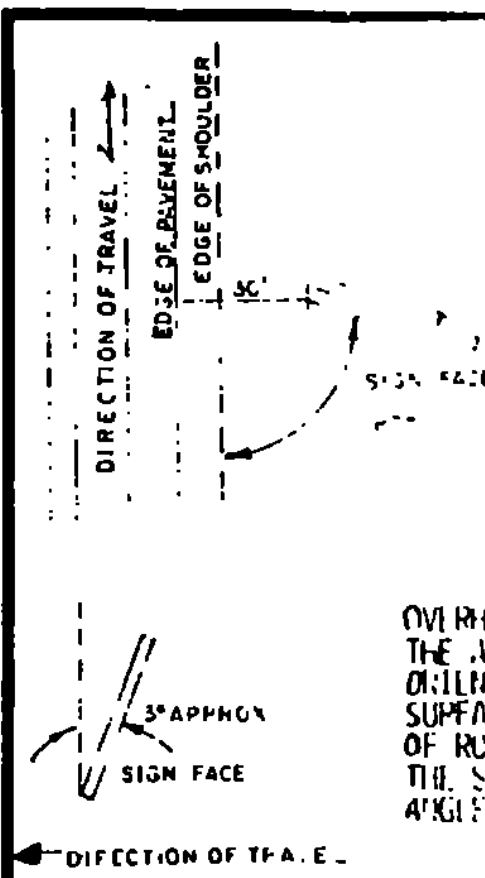
E.H. McKinney
ASST. CHIEF ENGINEER

G.M. Lane
HIGHWAY ENGINEER

GUIDE SIGNS



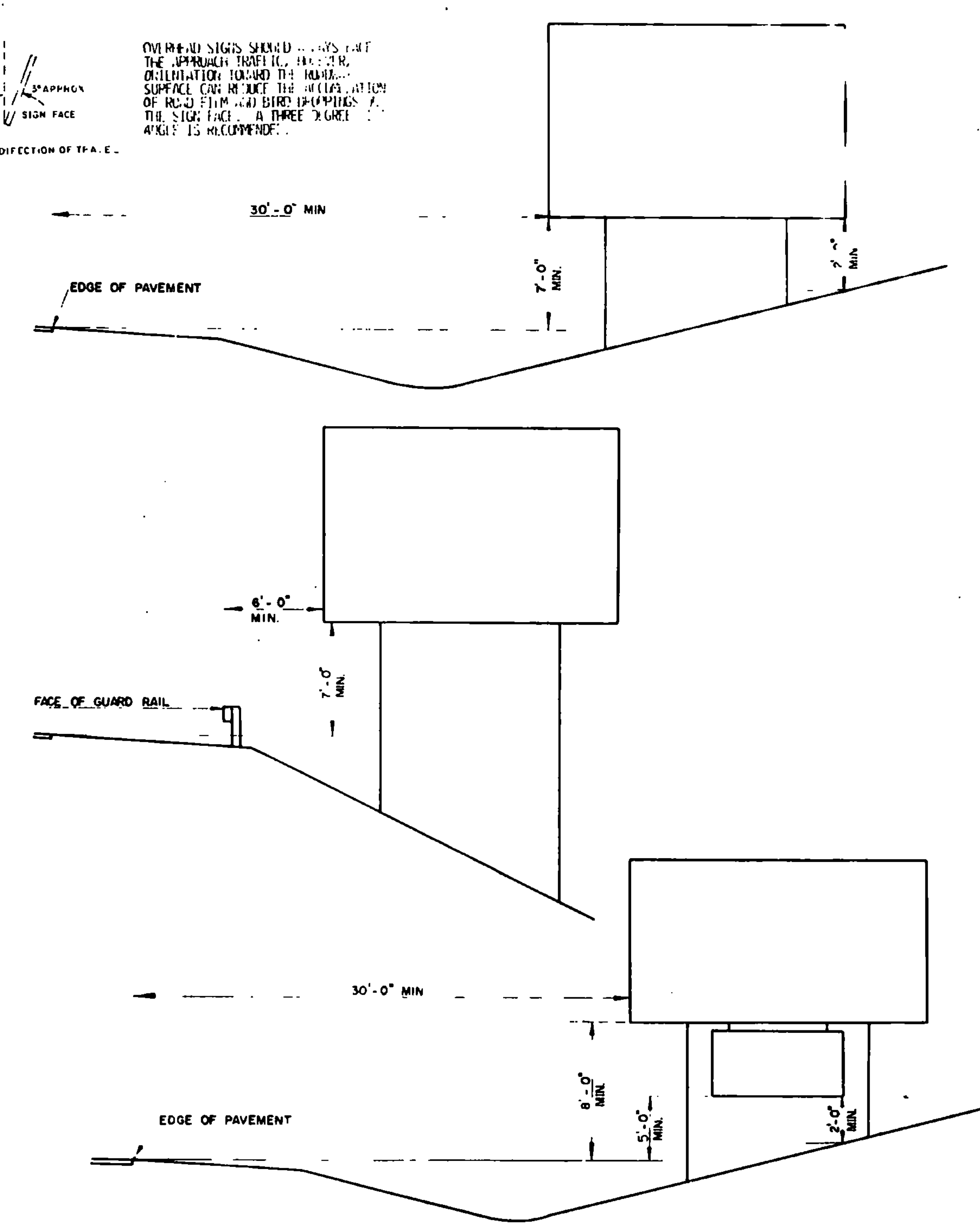
STANDARD E - 23



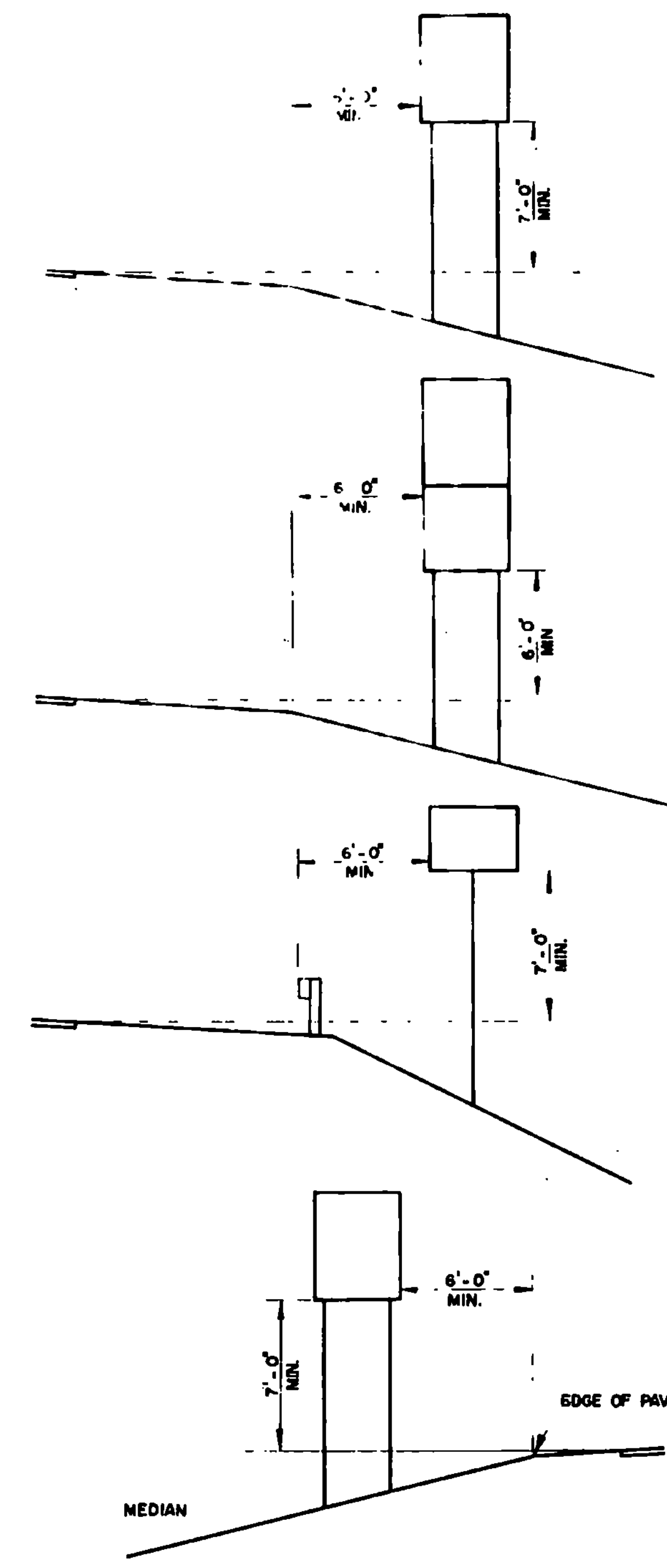
SHOULD BE MOUNTED AT AN ANGLE OF 90 DEGREES TO THE DIRECTION OF TRAVEL. THE ANGLE OF INSTALLATION SHOULD BE DETERMINED BY THE POSITION OF THE SIGN FACE TO THE ROADSIDE EDGE OF THE PAVEMENT WHEN THE SIGN IS LOCATED.

OVERHEAD SIGNS SHOULD BE PLACED AT THE APPROACH TO THE INTERSECTION OR TO THE ROAD SURFACE TO PROVIDE THE ADVANCE NOTICE OF ROAD WORK AND BUREAU OF HIGHWAYS. A THREE-DIGIT ANGLE IS RECOMMENDED.

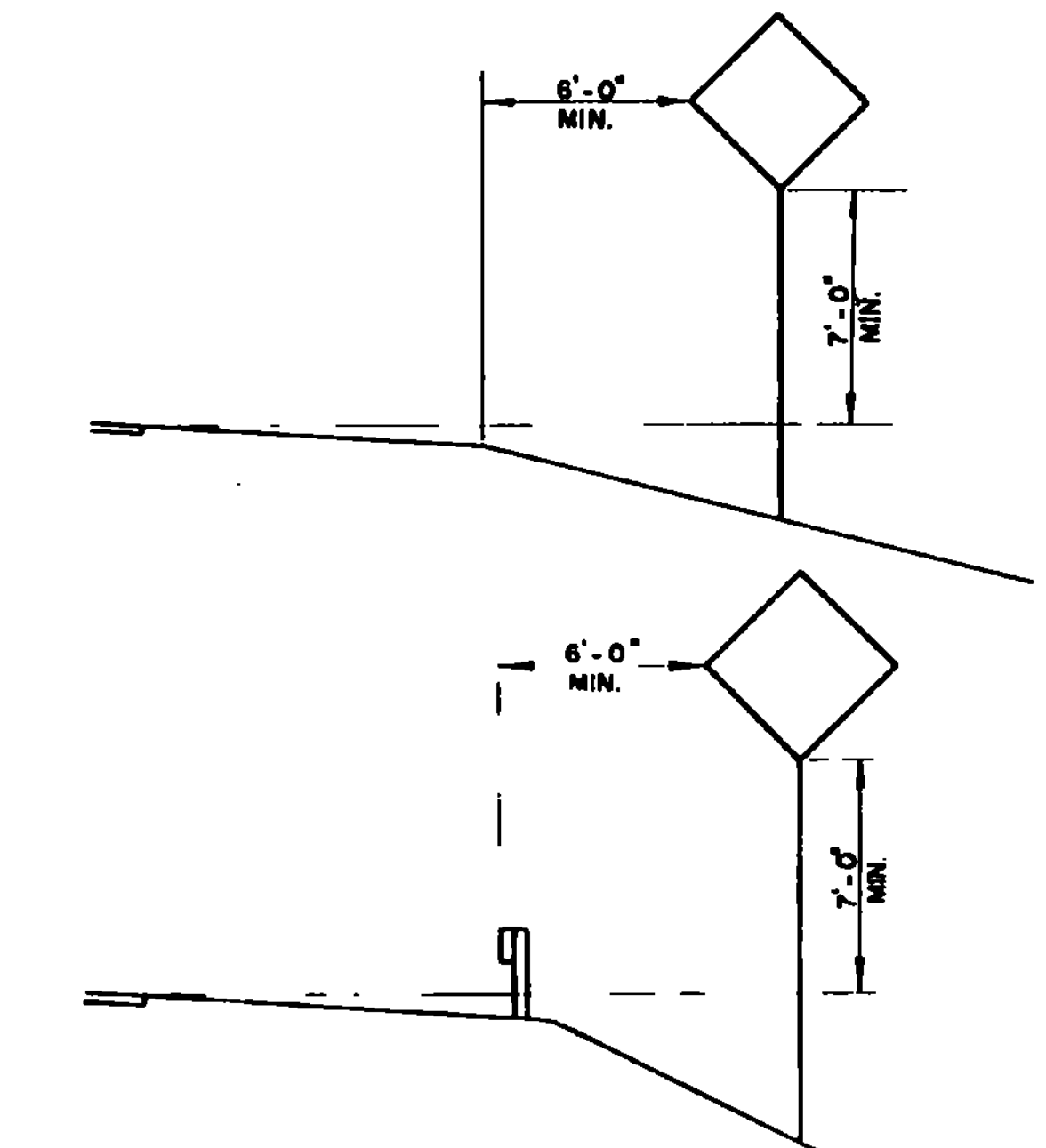
GUIDE SIGNS



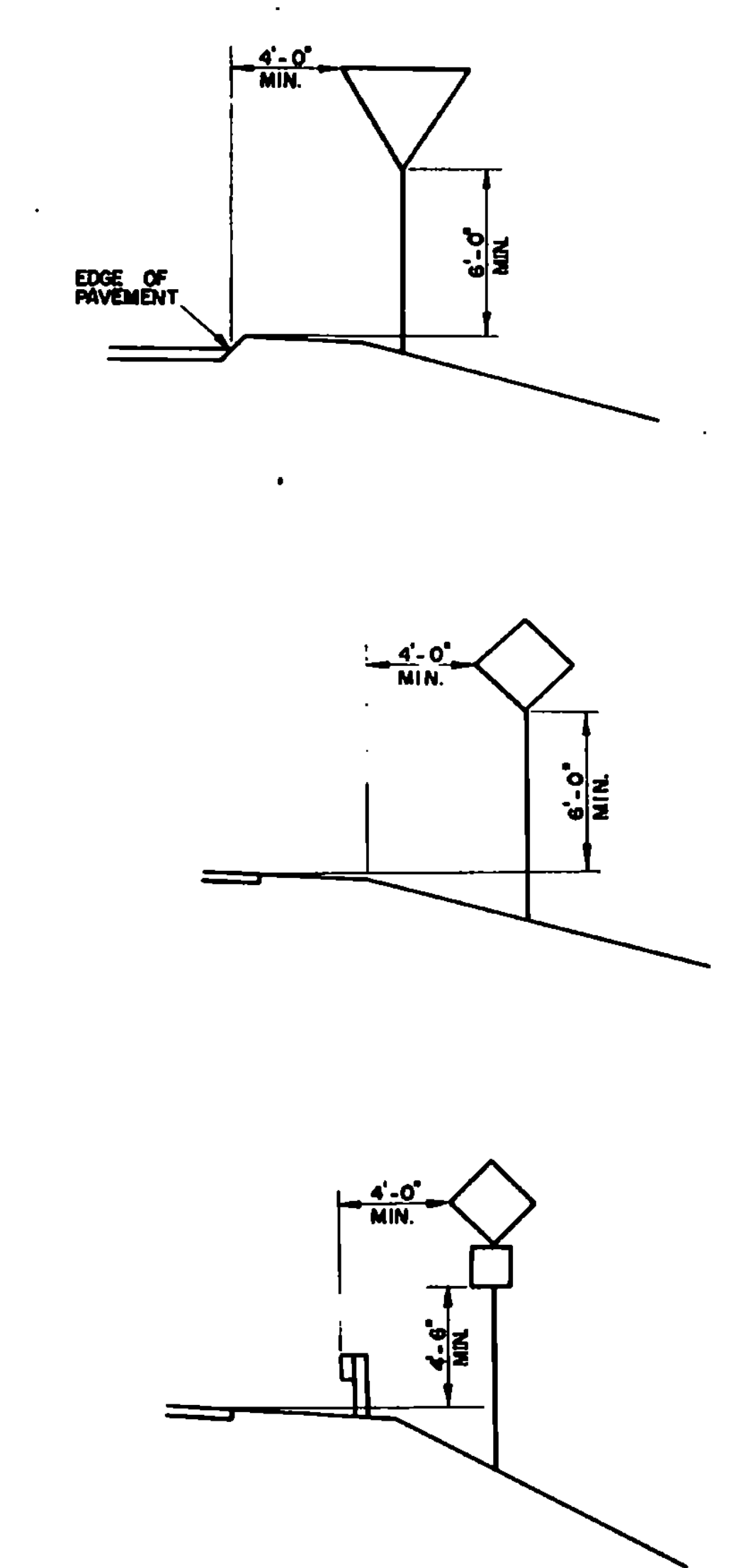
REGULATORY SIGNS



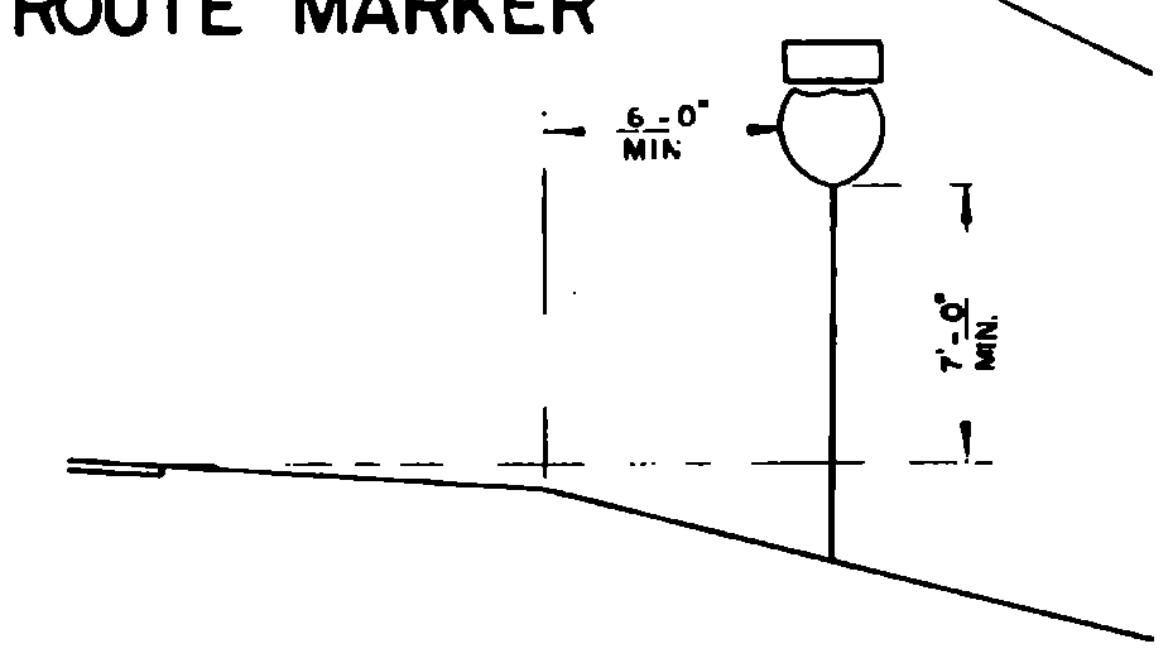
WARNING SIGNS



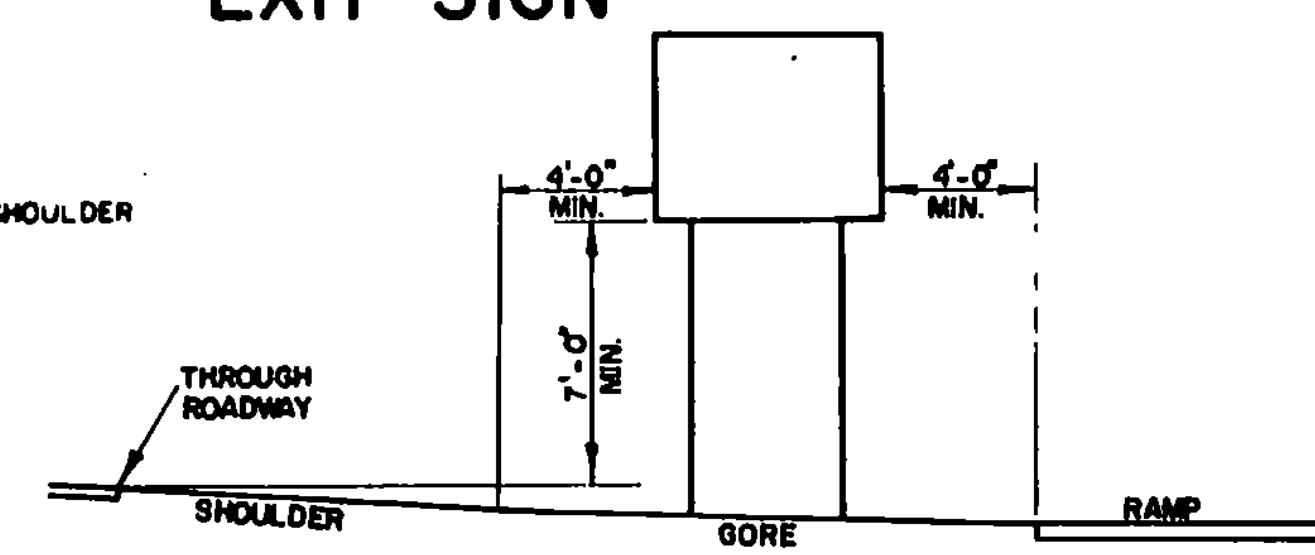
SIGNS ON RAMP



ROUTE MARKER



EXIT SIGN



REVISIONS AND CORRECTIONS
 DEC. 19, 1972 DIMENSION CHANGE
 JAN. 24, 1983 SIGN INSTALLATION DETAILS ADDED
 FEB. 3, 1986 - UPDATED TO 1985 SPECIFICATIONS

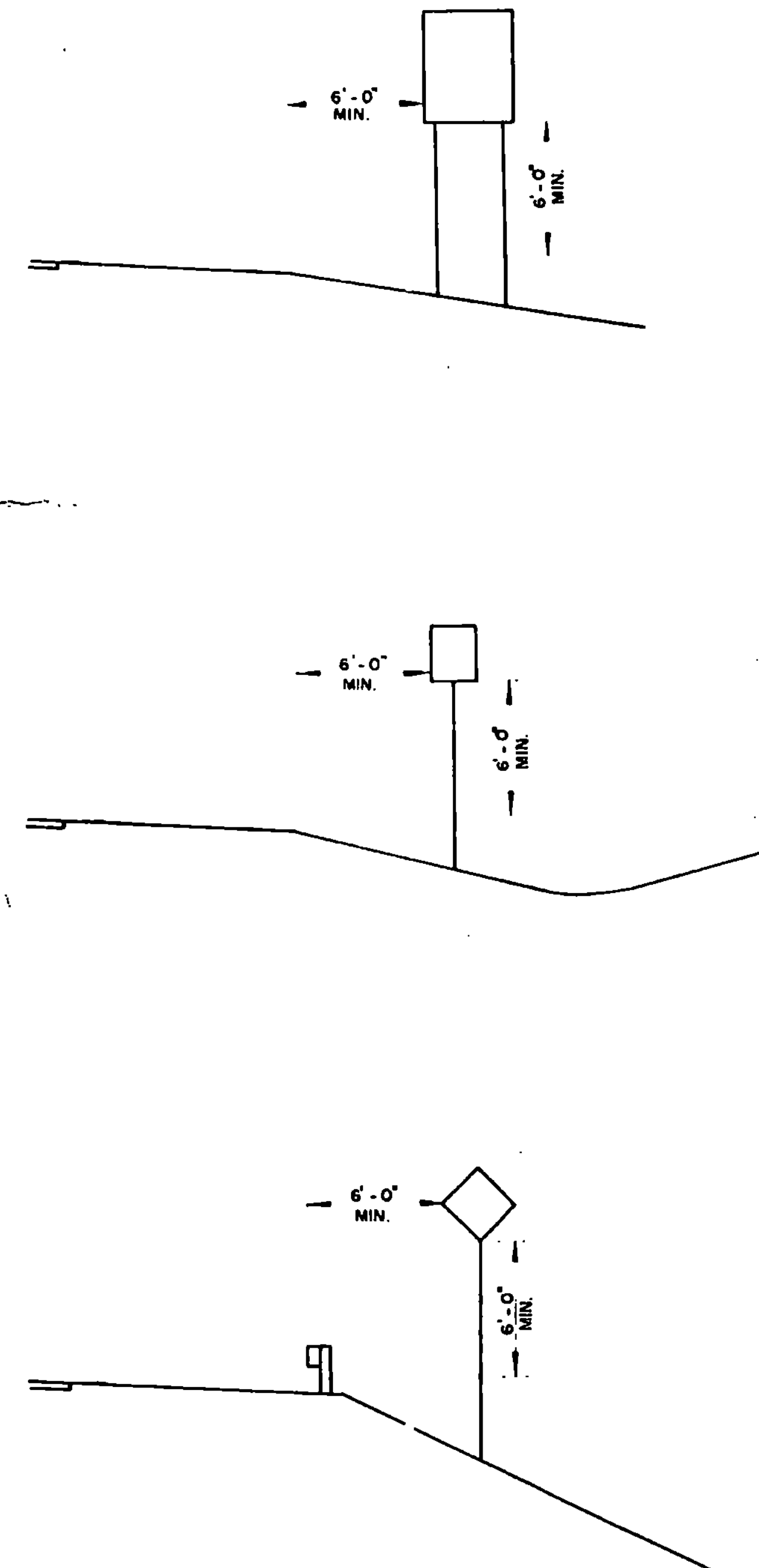
APPROVED:
 Dec. 29, 1971
 DATE
 R.H. Arnold
 CHIEF ENGINEER
 E.H. Stickney
 ASST. CHIEF ENGINEER
 L.J. M. Lane
 HIGHWAY ENGINEER

TRAFFIC SIGNS
 STANDARD SIGN PLACEMENT
 EXPRESSWAY TYPE

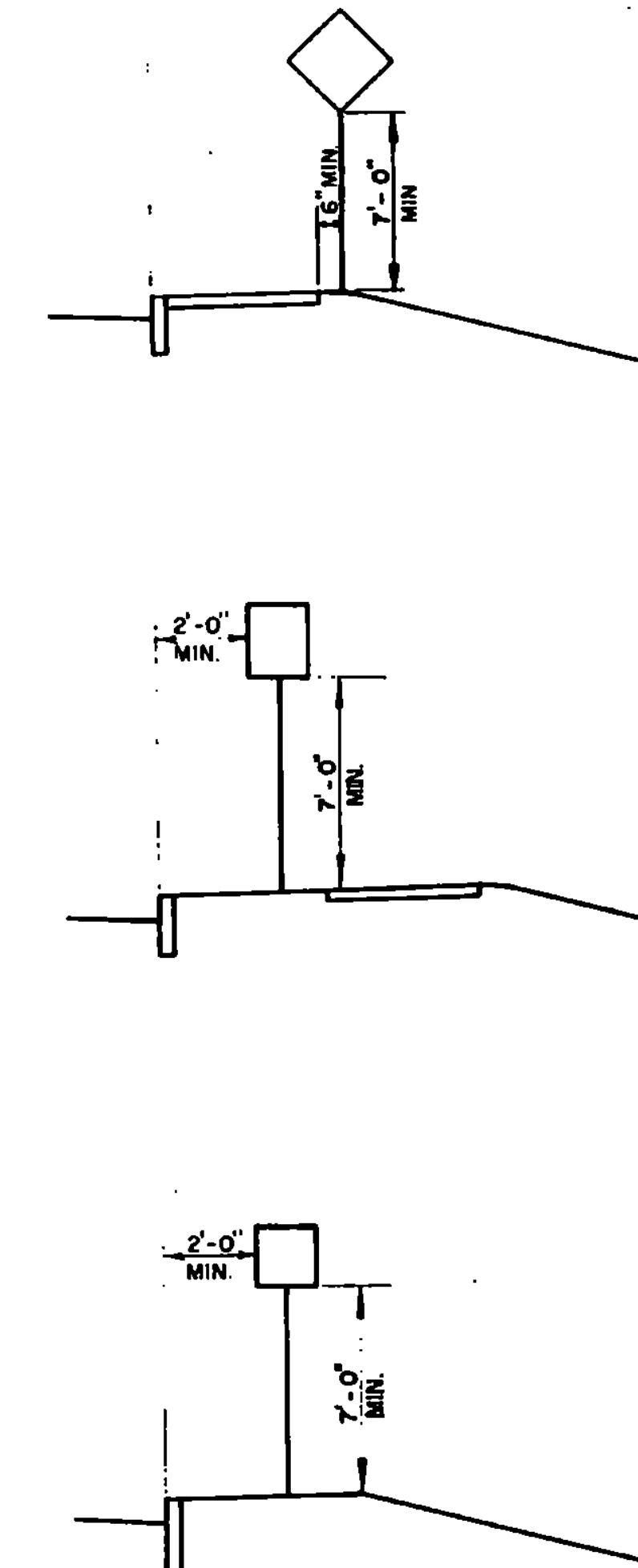


STANDARD
 E-27

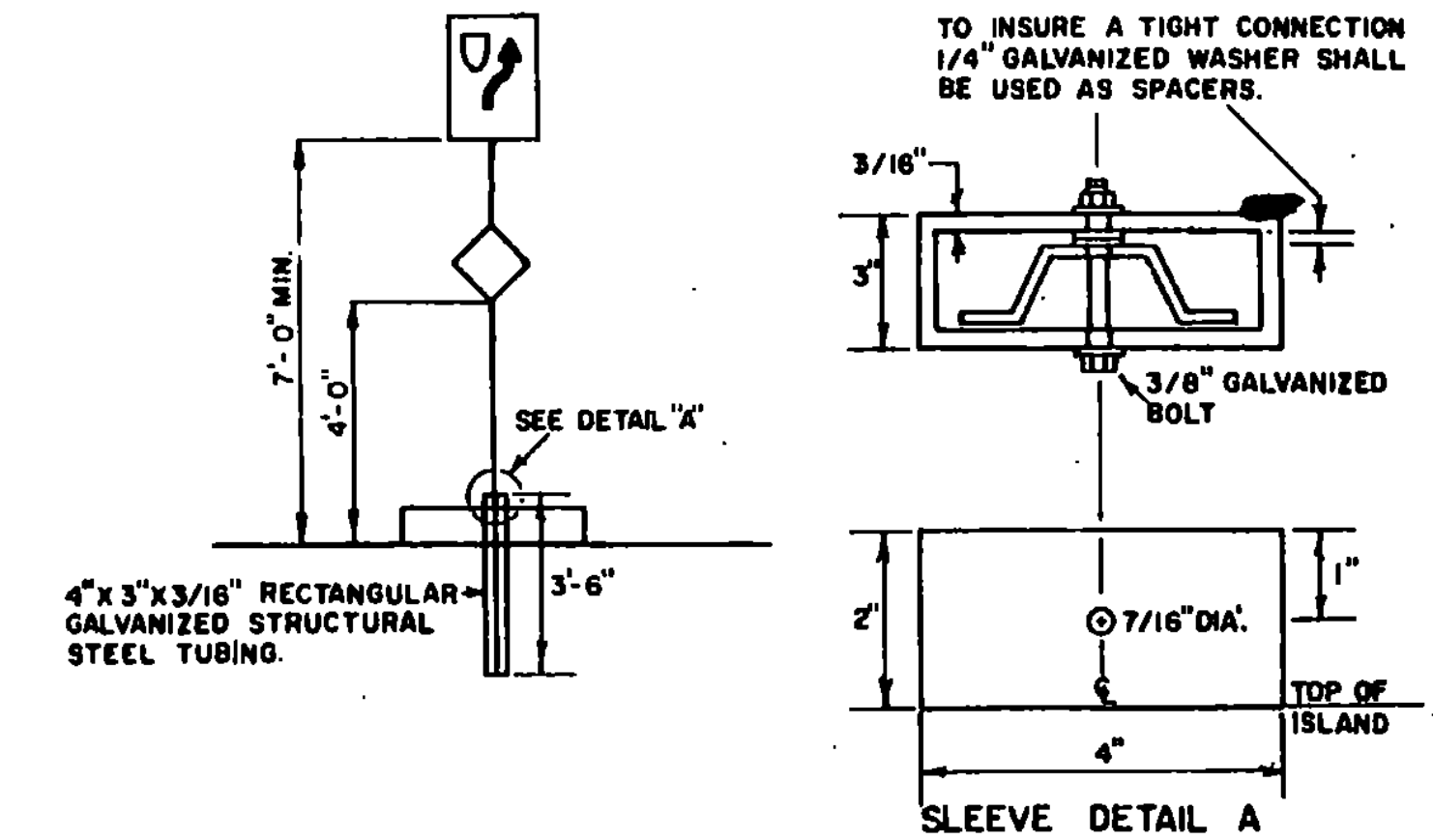
RURAL



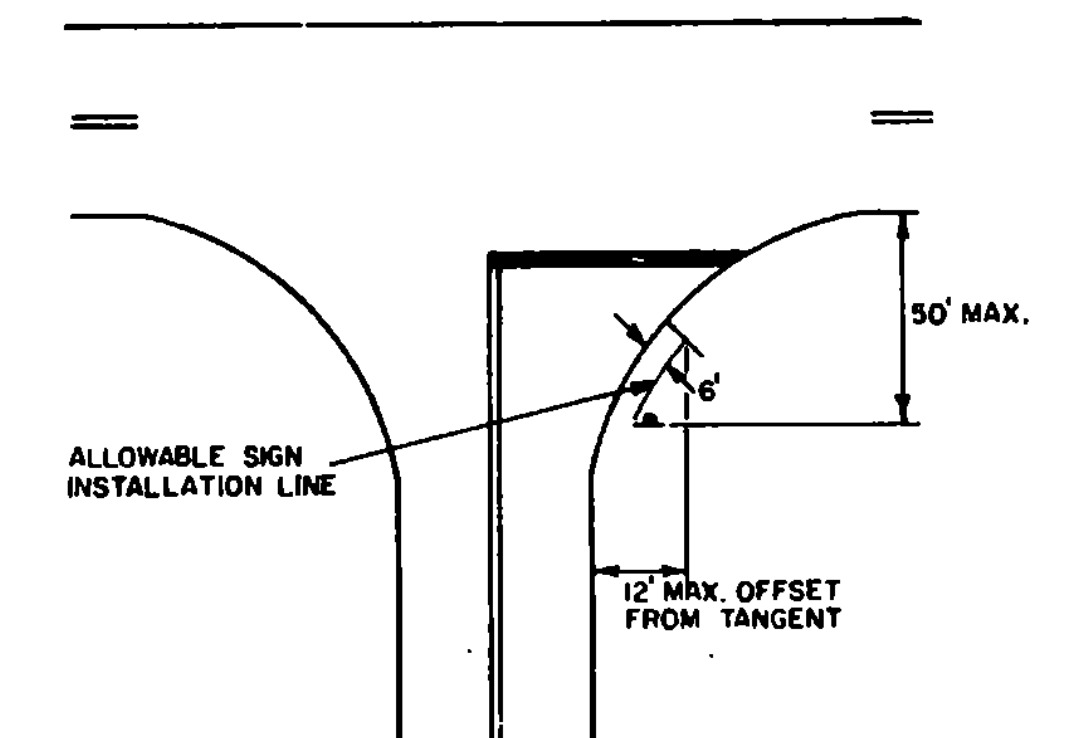
URBAN



WARNING SIGNS ON ISLAND IN THE LINE OF TRAFFIC



STOP OR YIELD SIGNS AT WIDE THROAT INTERSECTIONS



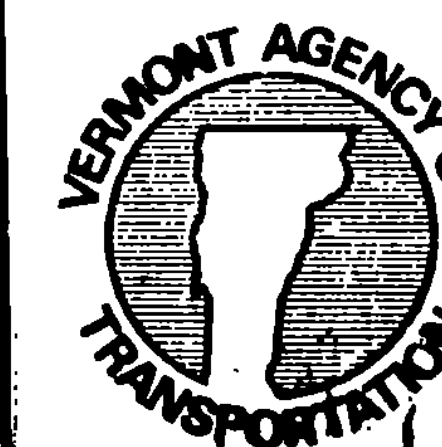
NOTES 1) IN BOTH RURAL AND URBAN LOCATIONS, IF A SECONDARY SIGN IS MOUNTED BELOW ANOTHER SIGN, THE MINIMUM CLEARANCE MAY BE REDUCED BY ONE FOOT.
2) IN RURAL AREAS WITH NO SHOULDER, THE MINIMUM LATERAL CLEARANCE SHOULD BE 12' FROM EDGE OF THE TRAVELED WAY.

REVISIONS AND CORRECTIONS
JAN. 23, 1978 - DIMENSION FROM SHOULDER TO SIGN CHANGED PER FHWA.
AUG. 25, 1981 - ADDED STOP AND ISLAND DETAILS, REVISED CURB OFFSET
FEB. 3, 1986 - UPDATED TO 1986 SPECIFICATIONS

APPROVED
Dec. 29, 1971

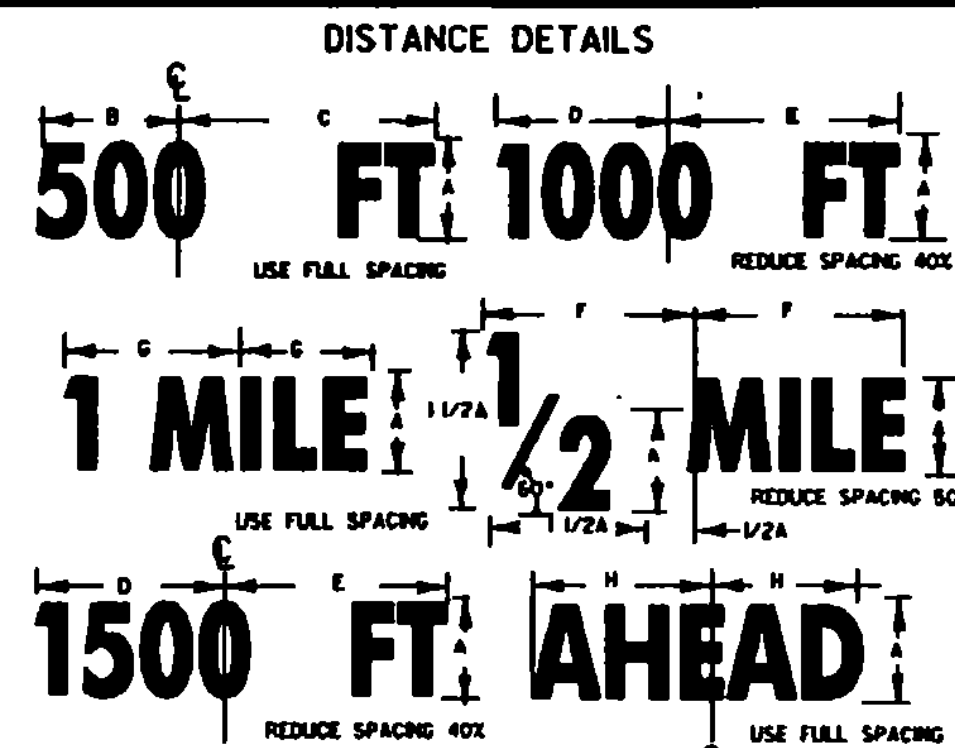
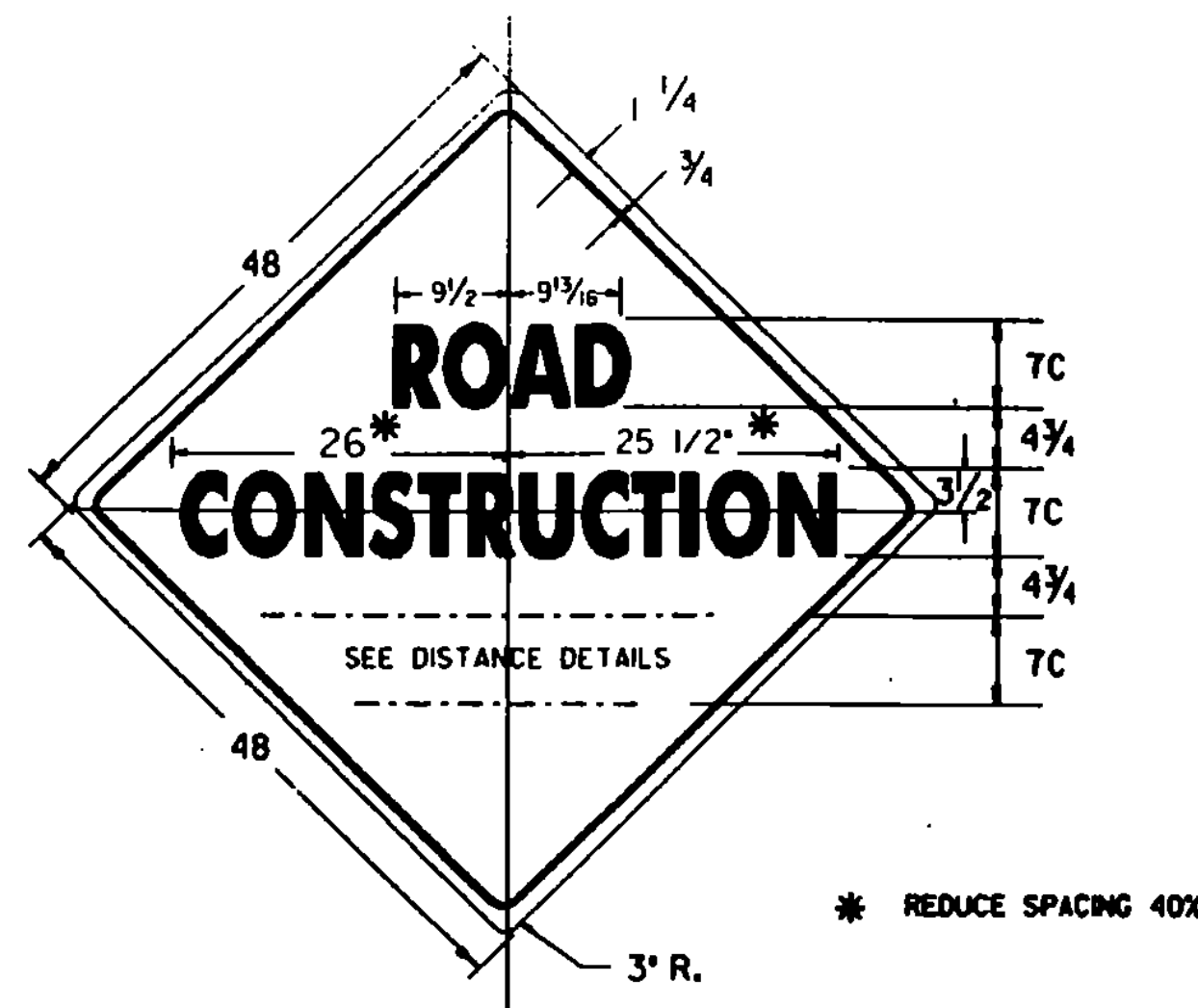
R. H. Arnold
CHIEF ENGINEER
E. H. Stickney
ASST. CHIEF ENGINEER
G. M. Lane
HIGHWAY ENGINEER

STANDARD SIGN PLACEMENT CONVENTIONAL ROAD

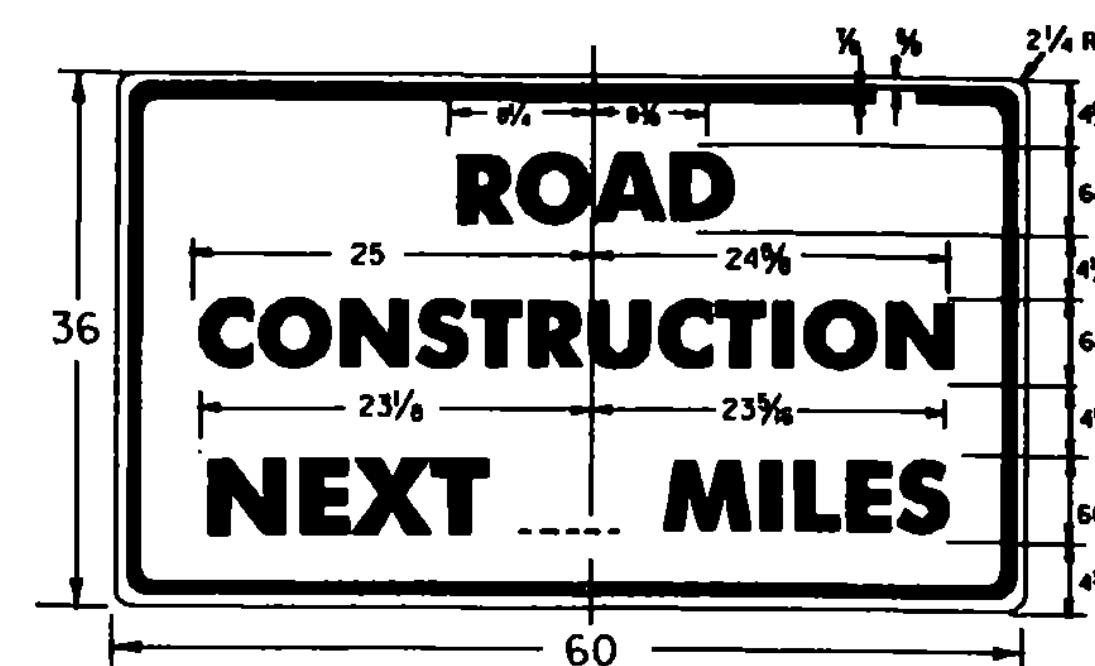


STANDARD

E-29

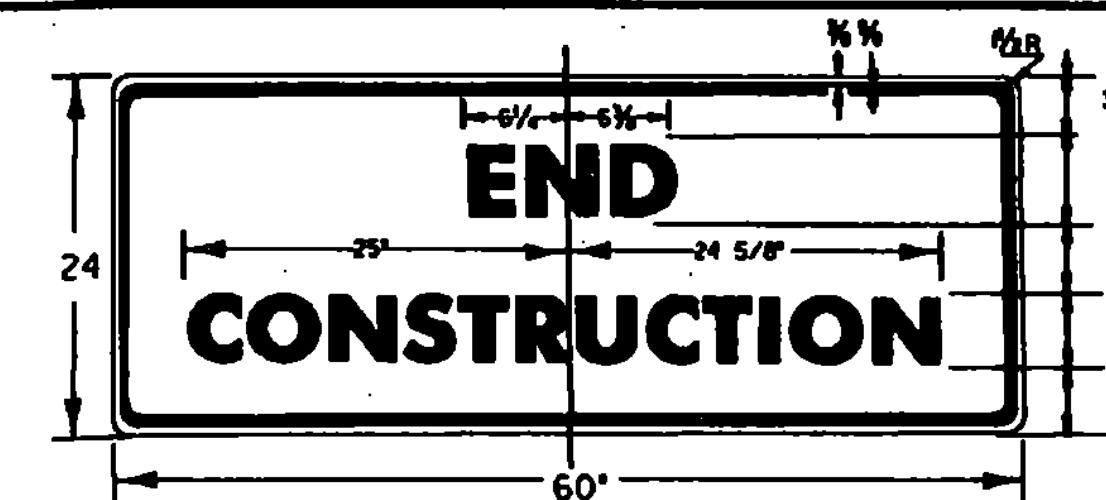


DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	H
7C	12	12 3/8	13 3/8	14	14 3/8	10 3/8	12 1/4
5D	10 3/8	10 3/8	8 3/8	11 1/4	11 1/4	9 1/2	10 3/8
8D	16 1/4	17 1/4	17	18	18	14 3/8	17 3/8



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. HAND LETTERING OF MILEAGE WILL NOT BE ALLOWED.

(ALL DIMENSIONS SHOWN IN INCHES)



NOTES

THE APPROACH CONSTRUCTION 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
CONSTRUCTION APPROACH 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 OF THE HIGHWAY AND THE CHARACTER OF THE ROADSIDES. THE LOCATION MEASUREMENTS ON THIS SHEET ARE INTENDED TO INDICATE THE SEQUENCE TO BE FOLLOWED, AND THE 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 WARNING SIGNS ON THIS SHEET MAY BE ANY OF THE FOLLOWING, WITH MINIMUM THICKNESS AS NOTED.

FLAT SHEET ALUMINUM	0.025 INCHES
HIGH DENSITY OVERLAYED PLYWOOD	3/4 INCHES
GALVANIZED SHEET STEEL	12 GAGE

REFLECTORIZATION
ALL REFLECTORIZED MATERIAL SHALL CONSIST OF ENCAPSULATED LENS REFLECTIVE 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 ADMINISTRATION. COLORS SHOWN ON THIS SHEET CONSIST OF BLACK TEXT, BORDER AND ARROWS ON A REFLECTORIZED ORANGE BACKGROUND.

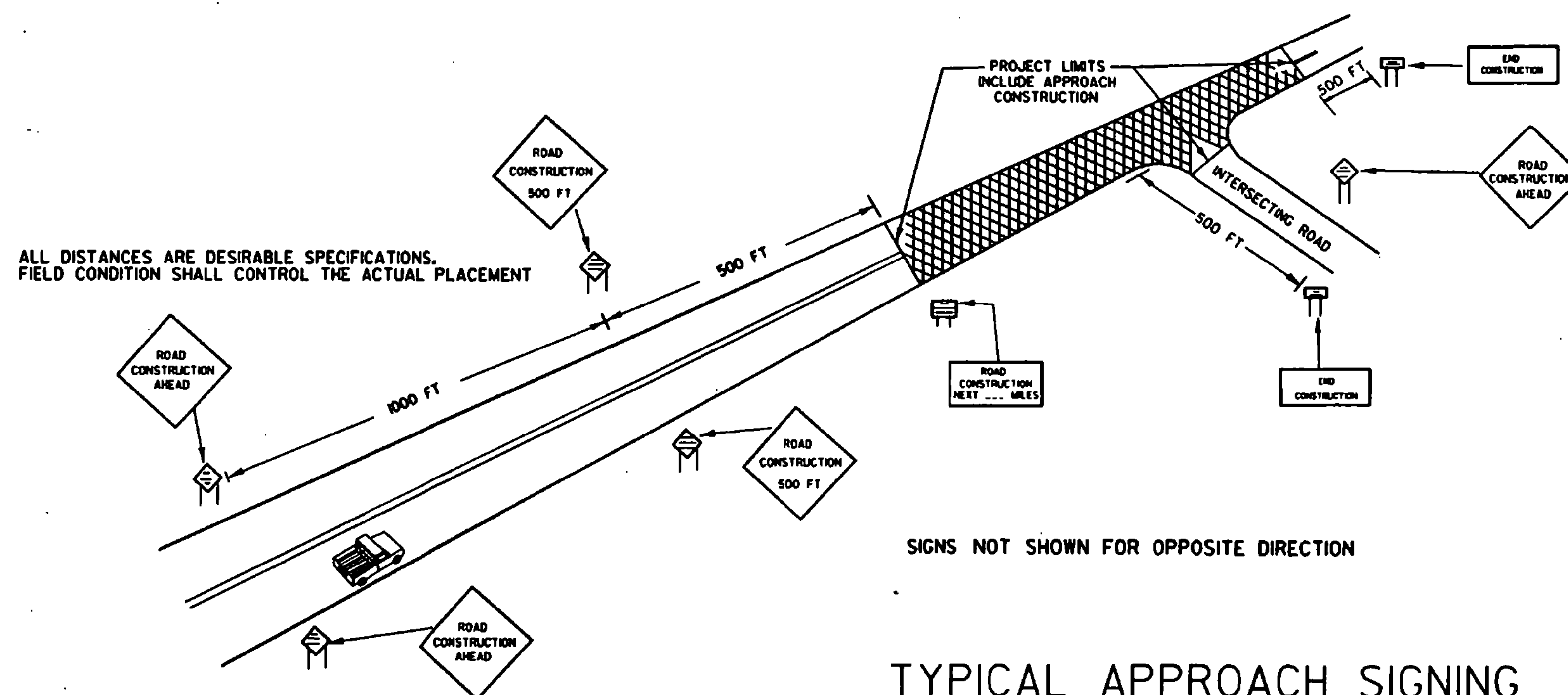
INSTALLATION
THE SIGNS SHALL BE IN PLACE AT THE TIME THE PROJECT OFFICIALLY COMMENCES, HOWEVER THE SIGNS SHALL BE COVERED UNTIL SUCH TIME AS THEY ARE ACTUALLY NEEDED. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER ON METAL POSTS SET SECURELY IN THE GROUND. THE BOTTOM OF A SIGN SHALL BE AT LEAST 5 FEET ABOVE ROAD LEVEL, AND THE NEAREST EDGE OF A SIGN SHALL BE AT LEAST 6 FEET OUTSIDE THE SHOULDER POINT OR 2 FEET OUTSIDE GUARD RAIL, 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.

GENERAL
THE COST OF FURNISHING, ERECTING, 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 (SEE STANDARD SPECIFICATIONS, SECTION 107.08). WHEN THE PROJECT IS CLOSED DOWN FOR TEMPORARY PERIODS THE SIGNS SHALL BE COVERED IN A WORKMANLIKE MANNER.

SIGN COVERS
SIGNS MAY BE ERECTED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES, BUT SHALL BE COVERED UNTIL SUCH A TIME AS CONSTRUCTION ACTIVITIES BEGIN. 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, HARDBOARD 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.



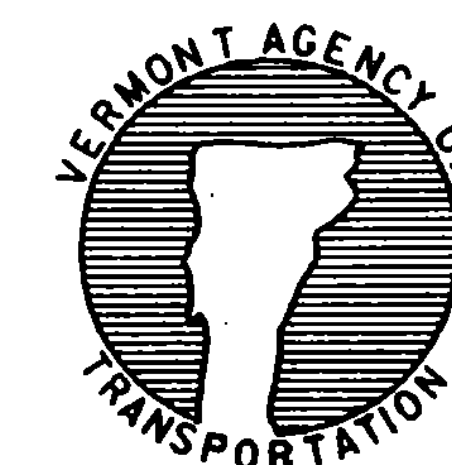
TYPICAL APPROACH SIGNING

REVISIONS AND CORRECTIONS

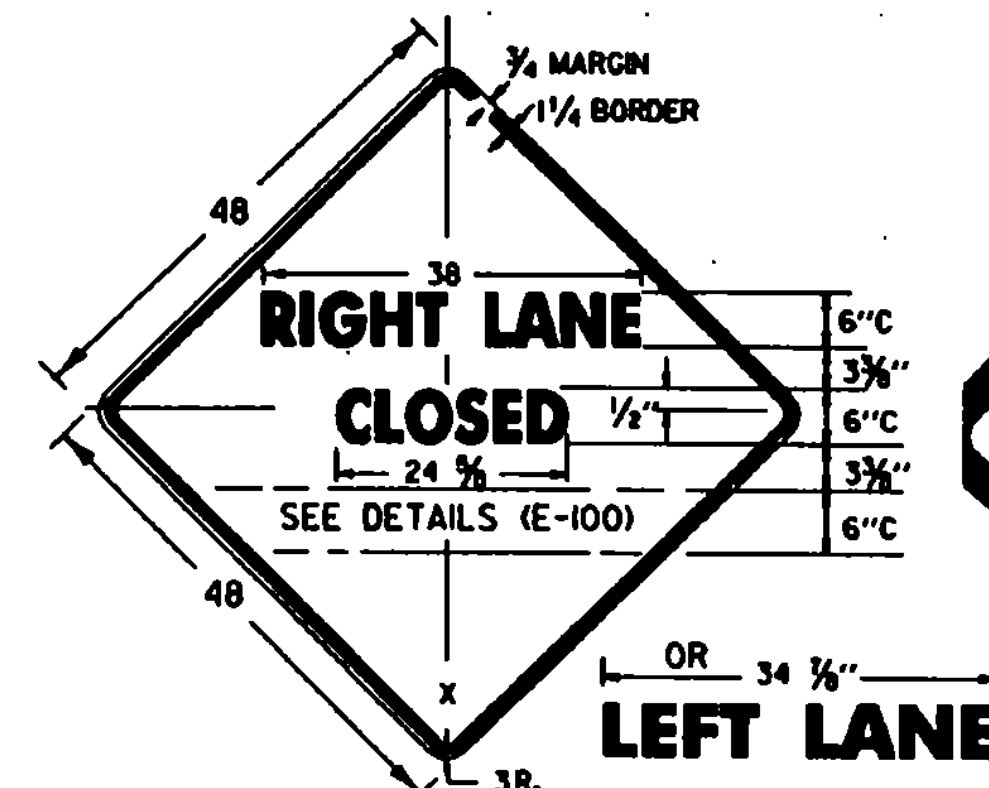
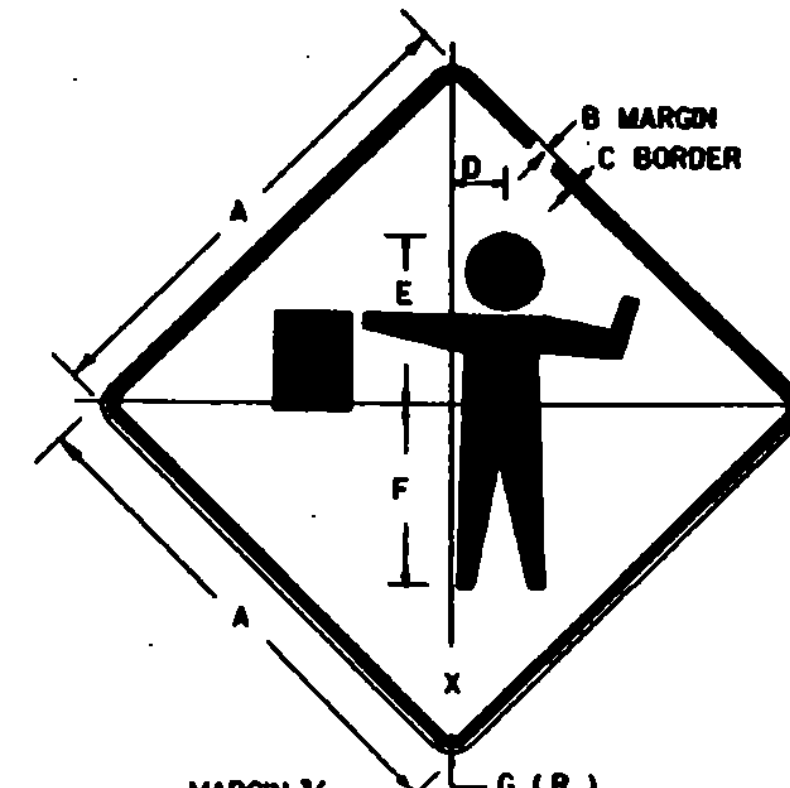
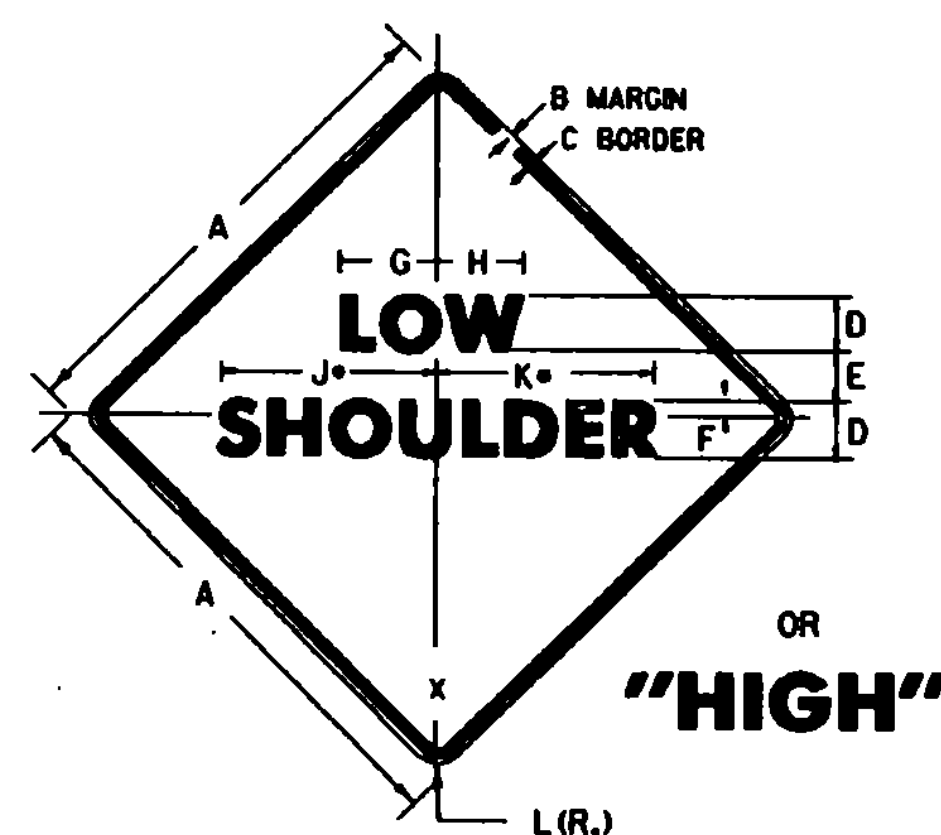
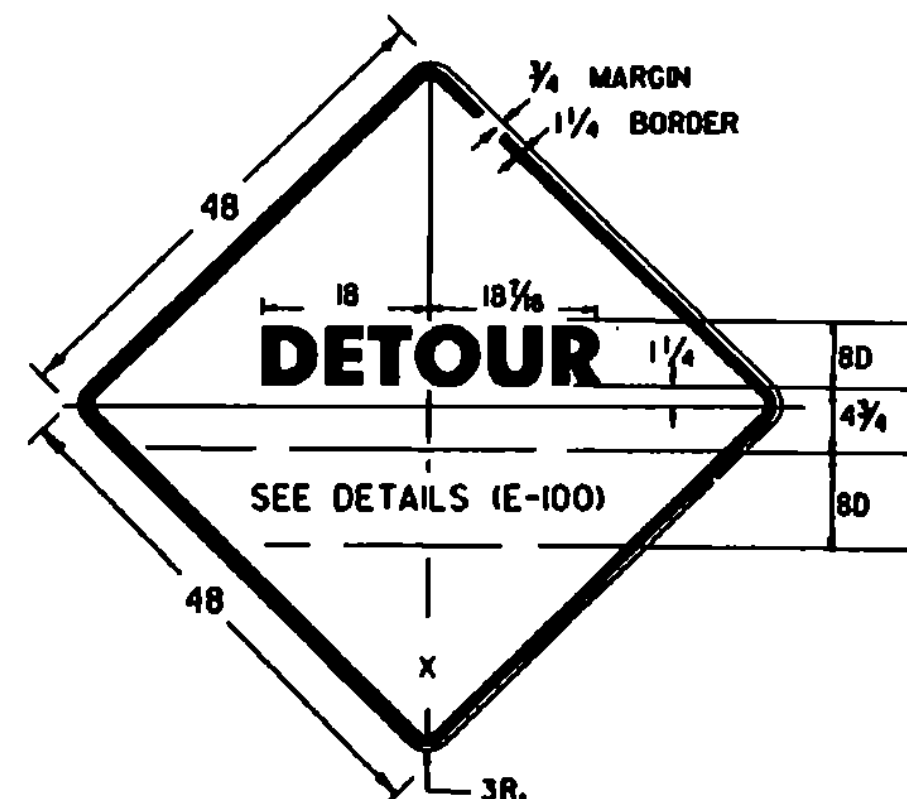
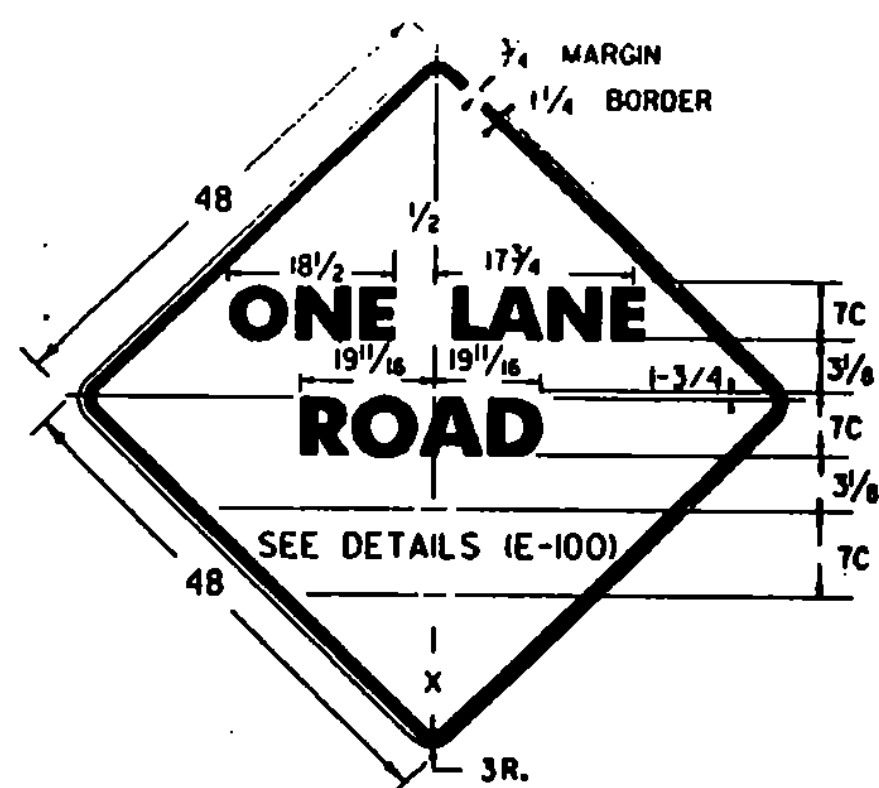
APPROVED

SEPT. 10, 1987
DATE
David R. Kelley
CHIEF ENGINEER
Arthur J. Goss
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION
Gordon B. MacArthur
TRAFFIC AND SAFETY ENGINEER

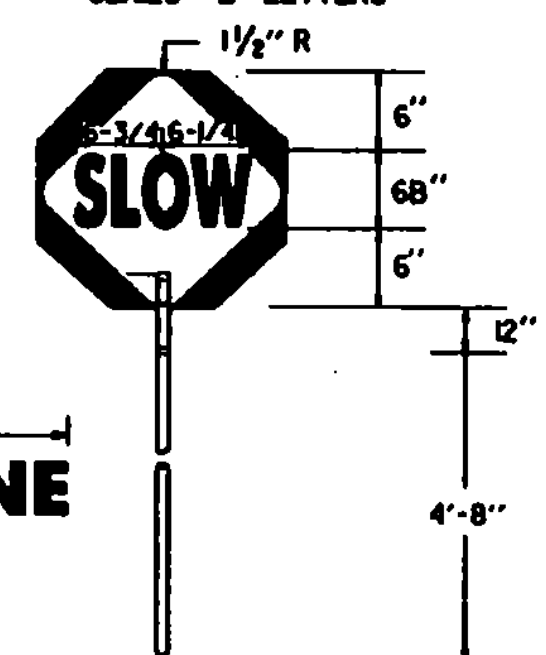
CONSTRUCTION APPROACH SIGNS



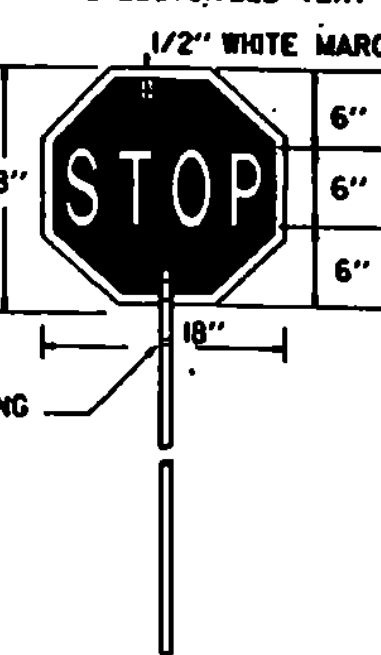
STANDARD
E-100



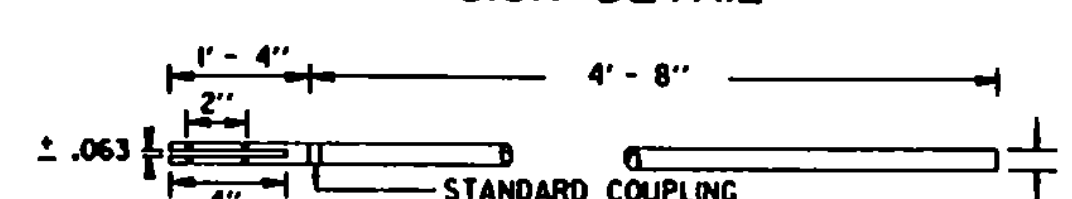
ORANGE REFLECTORIZED DIAMOND WITH BLACK TEXT AND BORDER SERIES "B" LETTERS



RED REFLECTORIZED OCTAGON WITH 6" SERIES "C" WHITE REFLECTORIZED TEXT



SIGN DETAIL

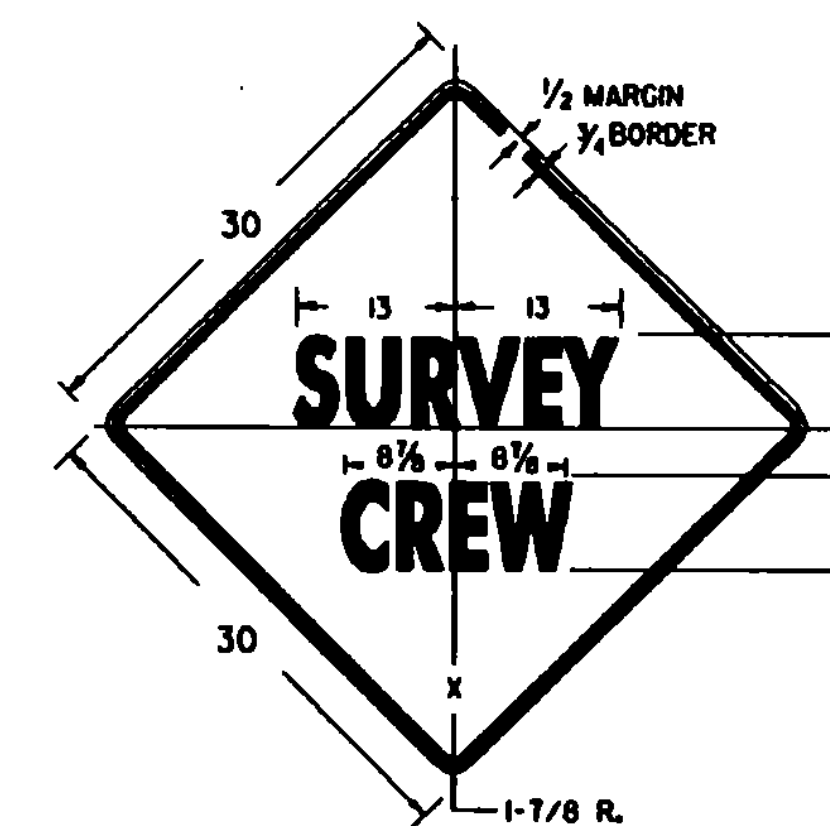


STAFF DETAIL

MATERIALS
THE SIGN MATERIALS SHALL BE 0.063" ALUMINUM WITH COLORS AS INDICATED ON DETAILS.
THE STAFF SHALL BE RIGID ALUMINUM CONDUIT OR TUBING WITH A WALL THICKNESS OF 0.125".

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

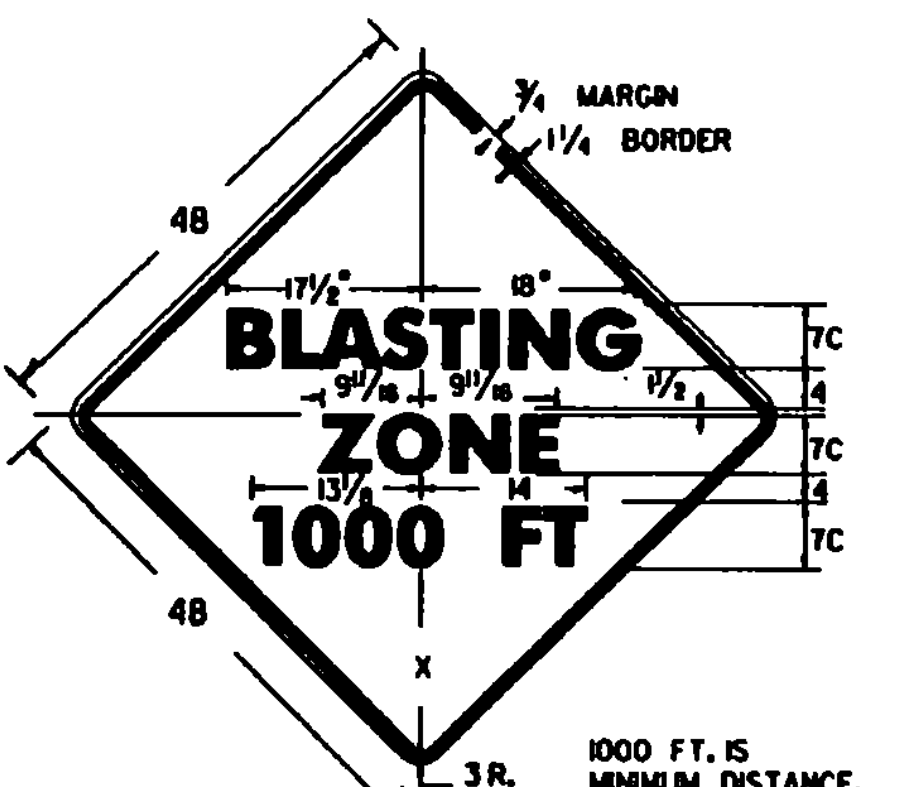
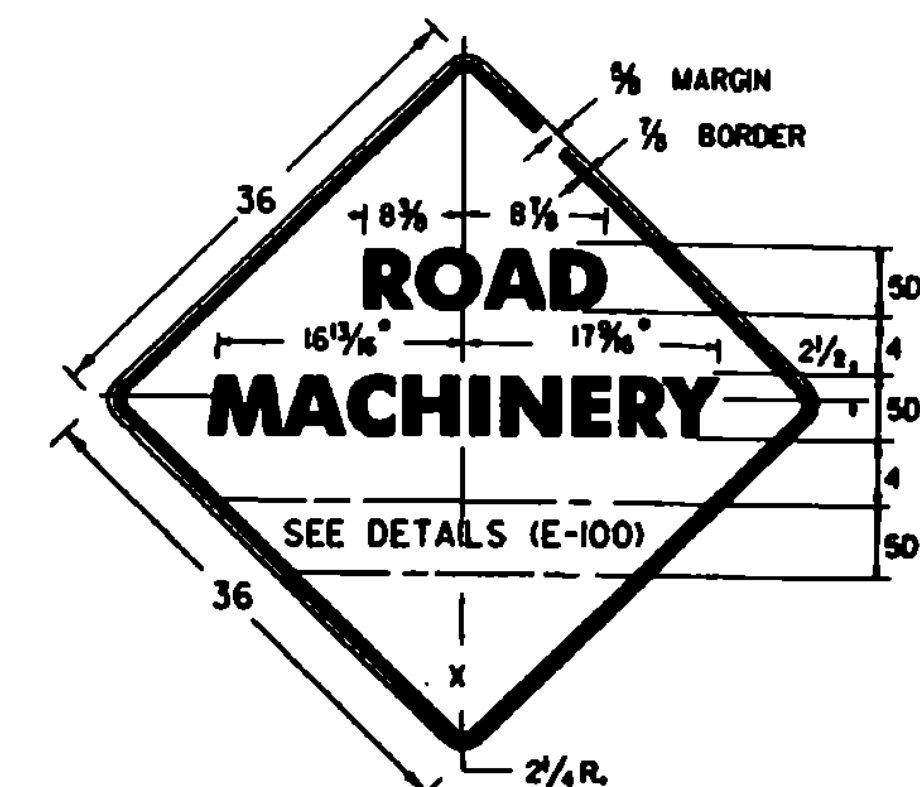
SIGN PADDLE FOR FLAGPERSON



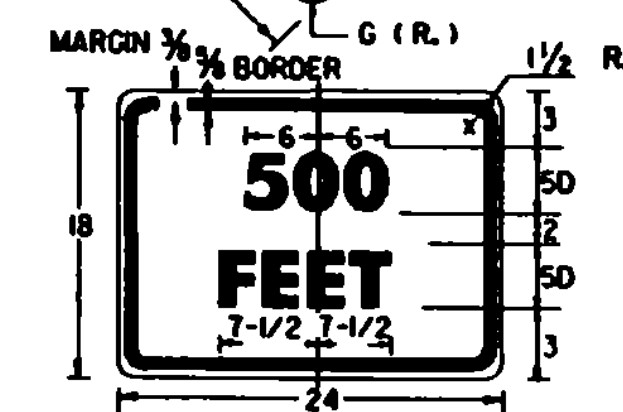
(ALL DIMENSIONS ARE IN INCHES)

NOTES

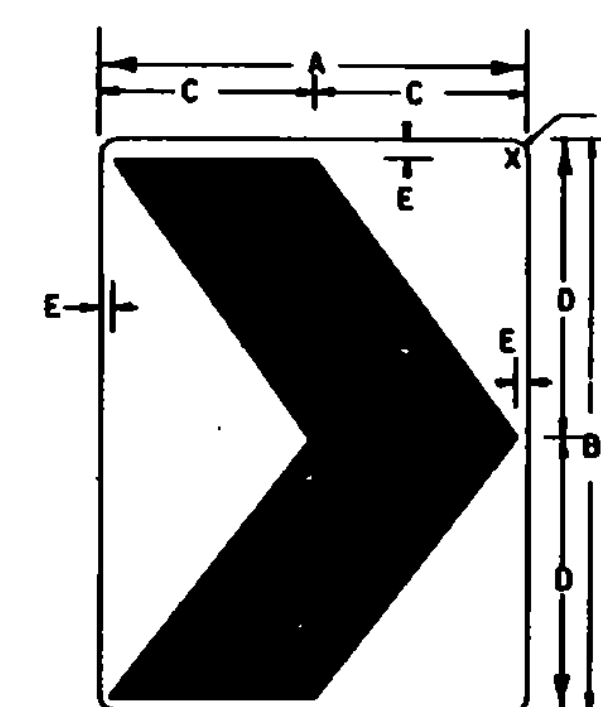
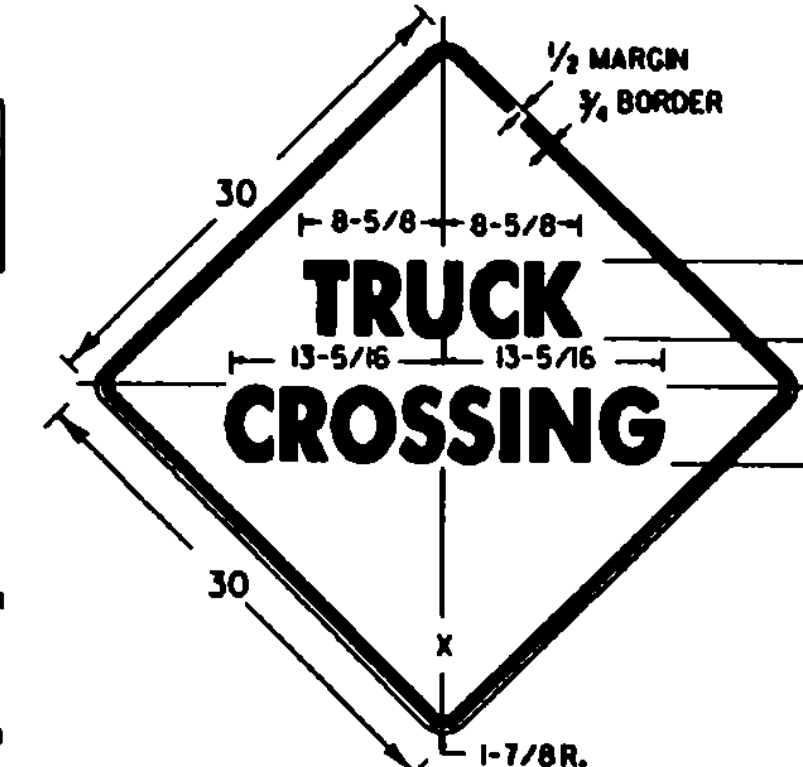
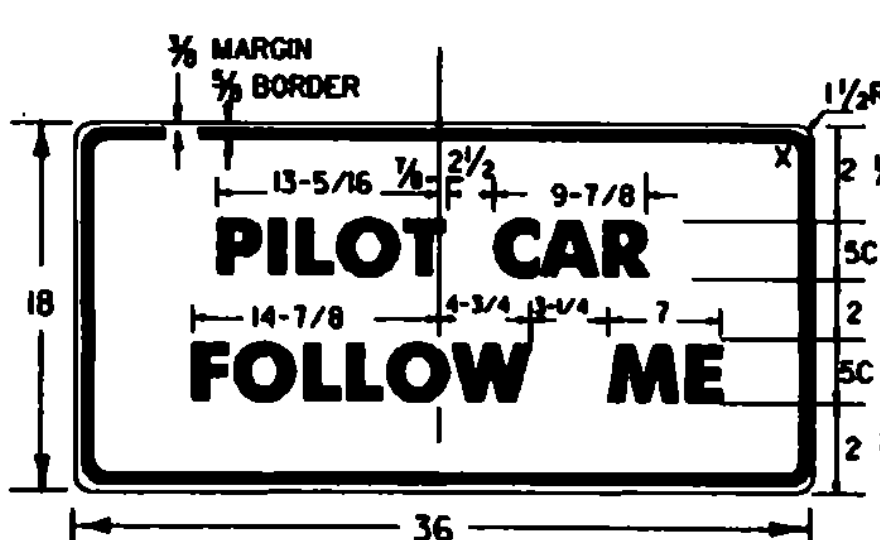
SEE STANDARD SHEET E-100 FOR NOTES AND TEXT DETAILS
COLORS FOR SIGNS SHOWN ON THIS SHEET SHALL BE BLACK TEXT, BORDER AND SYMBOLS ON A REFLECTORIZED (ENCAPSULATED LENS) ORANGE BACKGROUND, UNLESS OTHERWISE NOTED. THE EXCEPTIONS ARE THE CHEVRON, ROAD CLOSED, AND PADDLE SIGNS, SIGN DETAILS INDICATE THE APPROPRIATE COLOR.
EXISTING "BRIDGE" SIGNS MAY BE USED UNTIL THE SIGN NEEDS REPLACEMENT. NEW SIGNS SHALL SHOW REFERENCE TO "ROAD" CONSTRUCTION. HOWEVER, SIGN TEXT SHALL BE CONSISTENT THROUGHOUT THE PROJECT.
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.



SIGN	A	B	C	D	E	F	G	H	J	K	L
STD.	30	1/2	3/4	BC	3	3/4	5-3/16	5-5/8	13-11/16	13-1/8	1-7/8
FWY.	48	3/4	1-1/4	BC	5	1-1/4	8-1/4	9	21-7/8	20-7/8	3

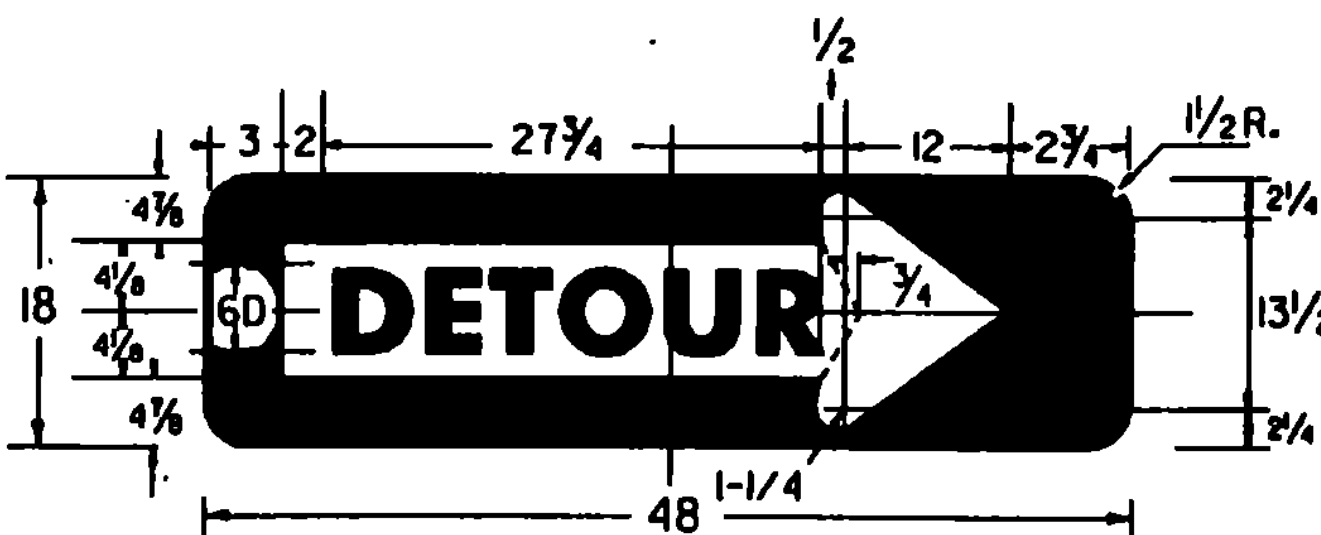
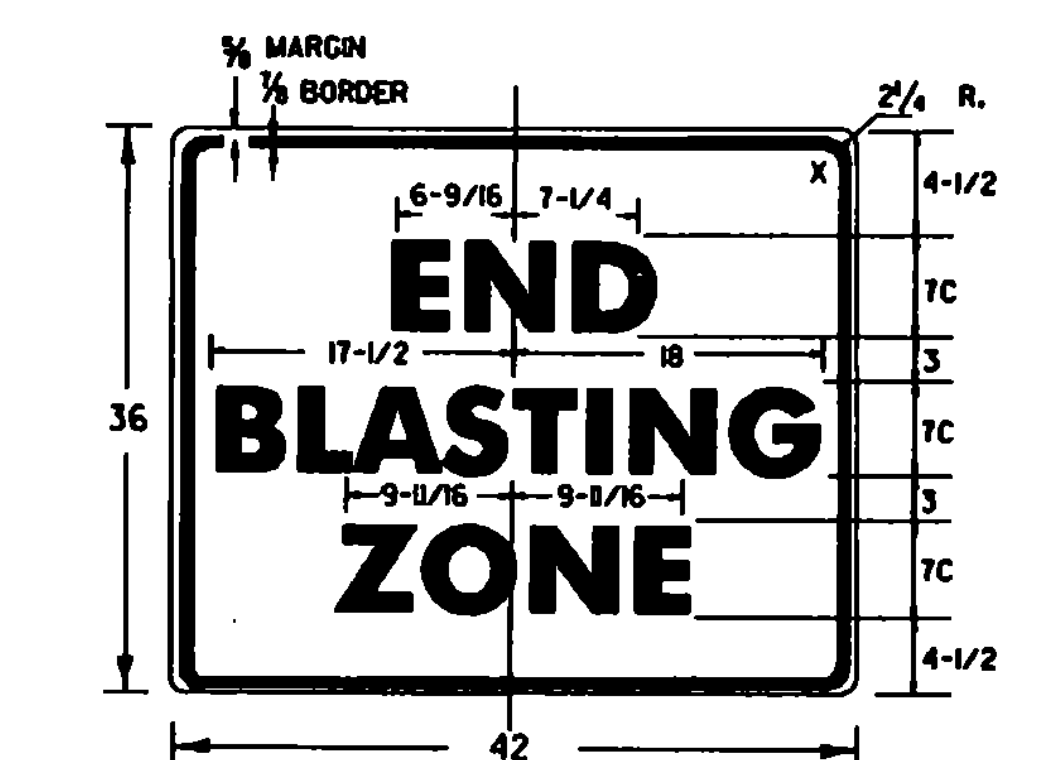
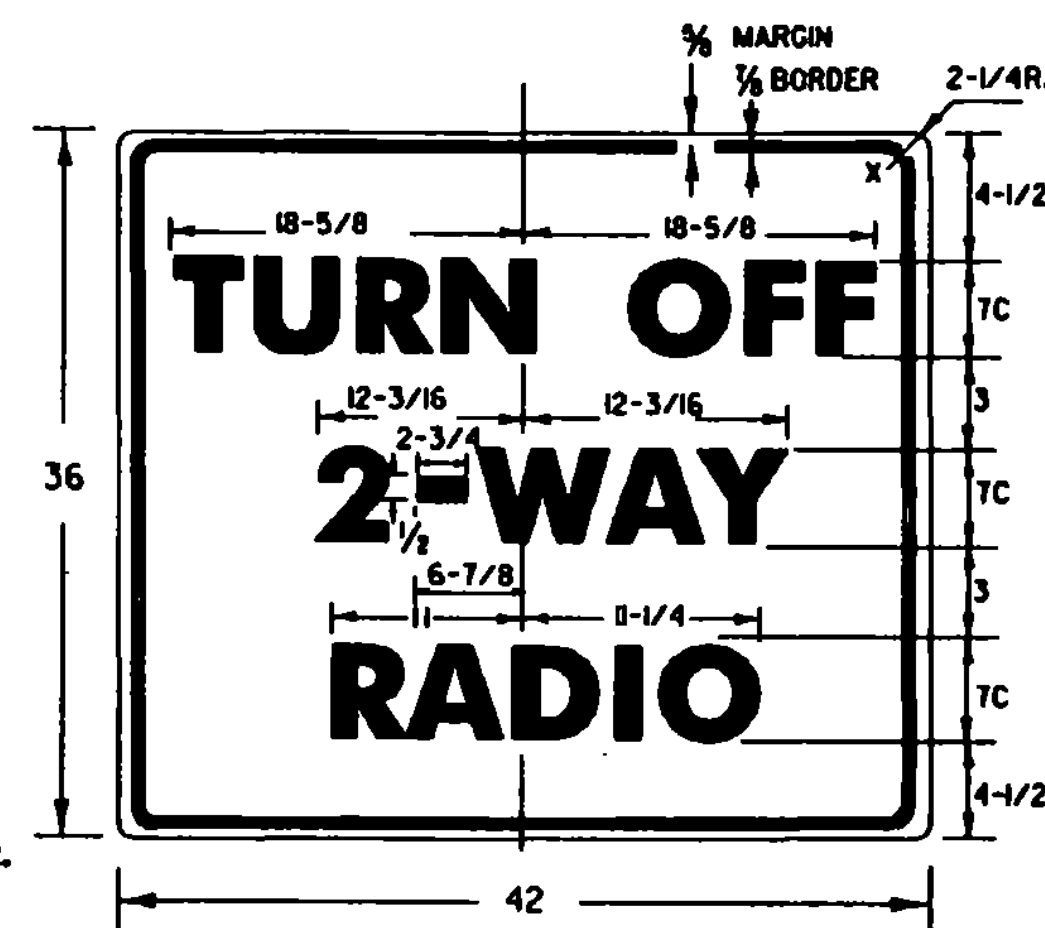
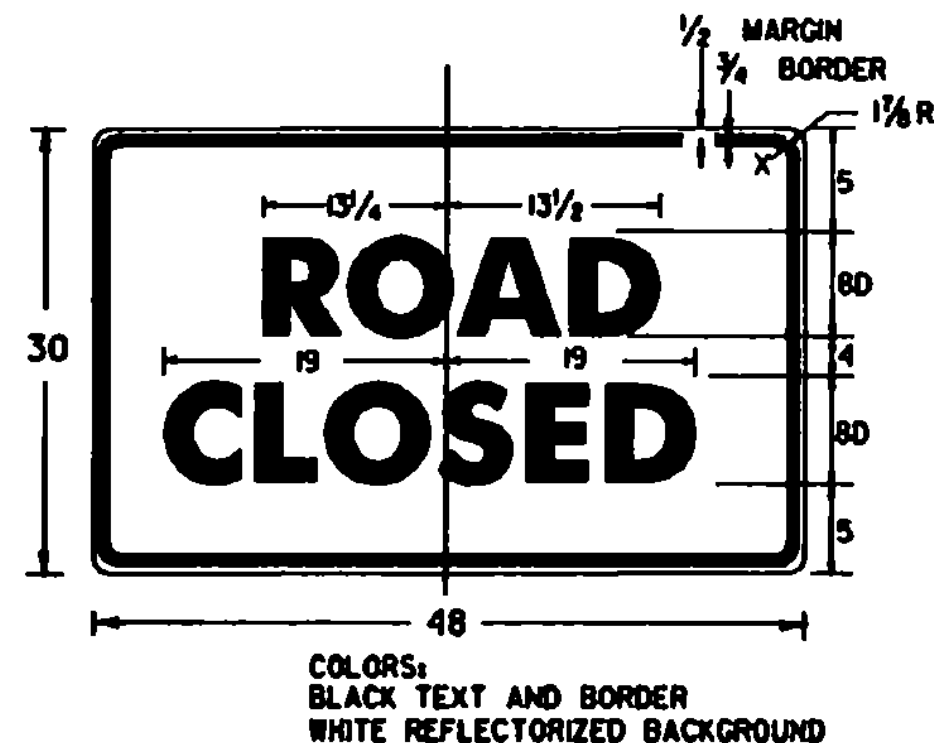
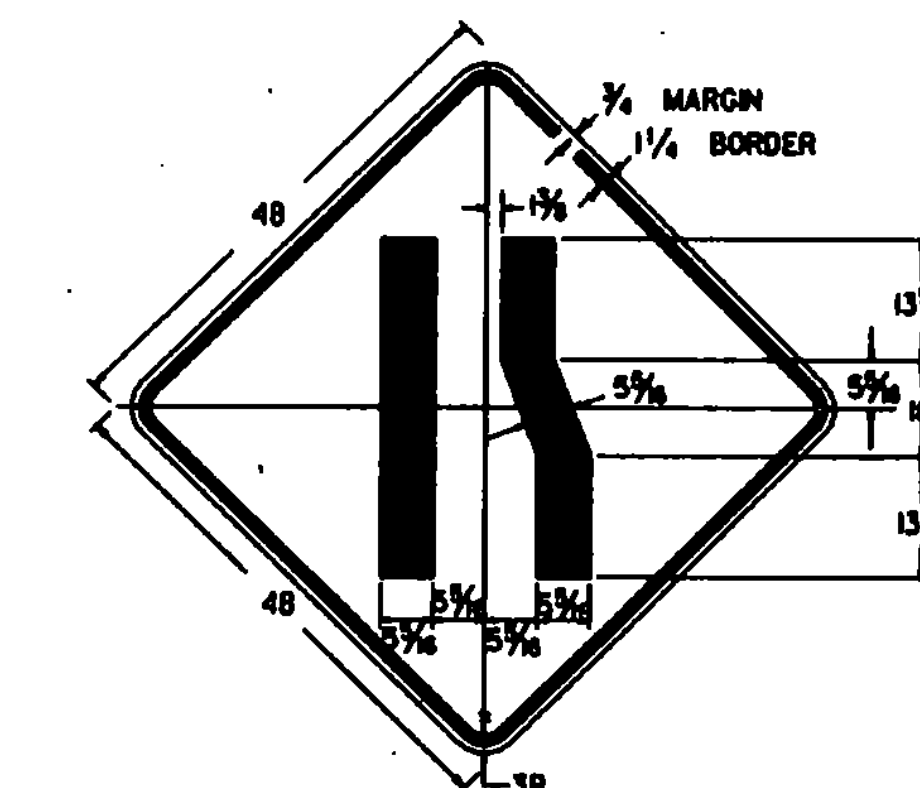


SIGN	A	B	C	D	E	F	G
STD.	36	3/4	1	2-3/4	13-1/2	14-5/8	2-1/4
FWY.	48	3/4	1-1/4	3-3/4	18	19-1/2	3



SIGN	A	B	C	D	E	F
STD.	18	24	9	12	3/4	1-1/2
SPECIAL	24	30	12	15	3/4	1-1/2
EXPWY.	30	36	15	18	1	1-7/8
FRWY.	36	48	18	24	1-1/8	2-1/4

COLORS
CHEVRON -BLACK
BACKGROUND-YELLOW(REFL.)



REVISIONS AND CORRECTIONS

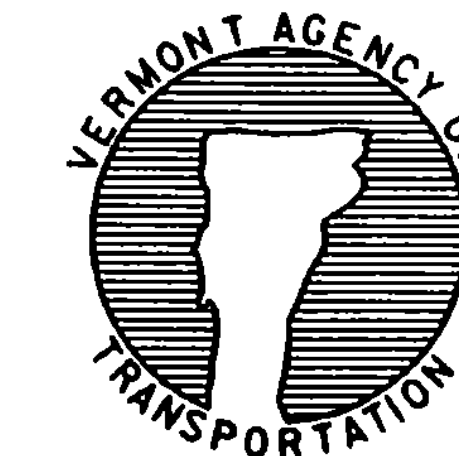
APPROVED

OCT. 30, 1987
DATE

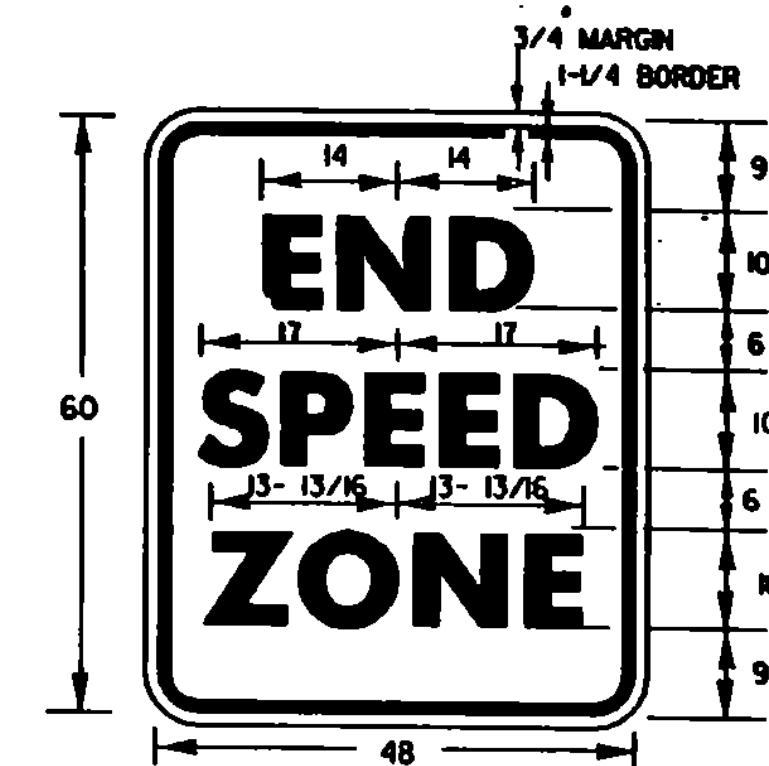
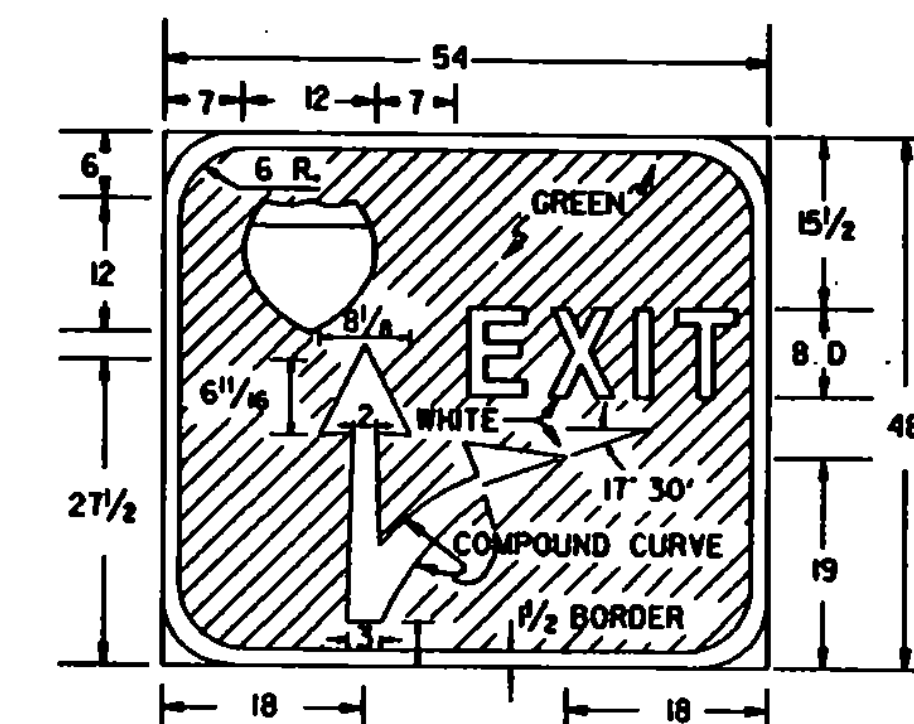
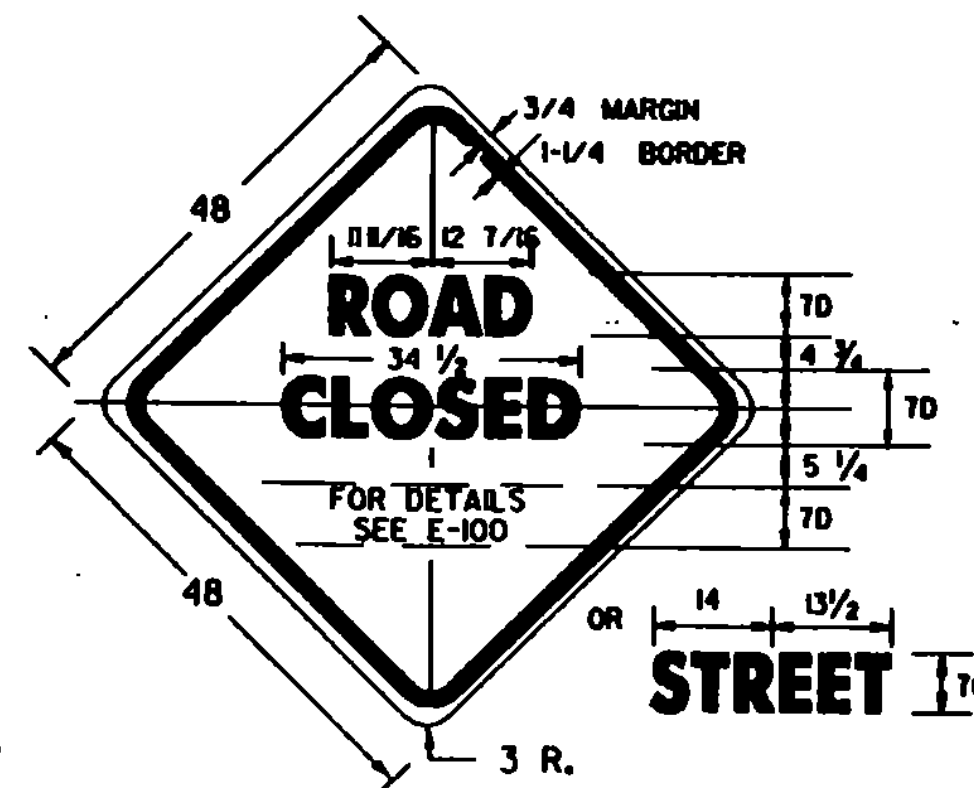
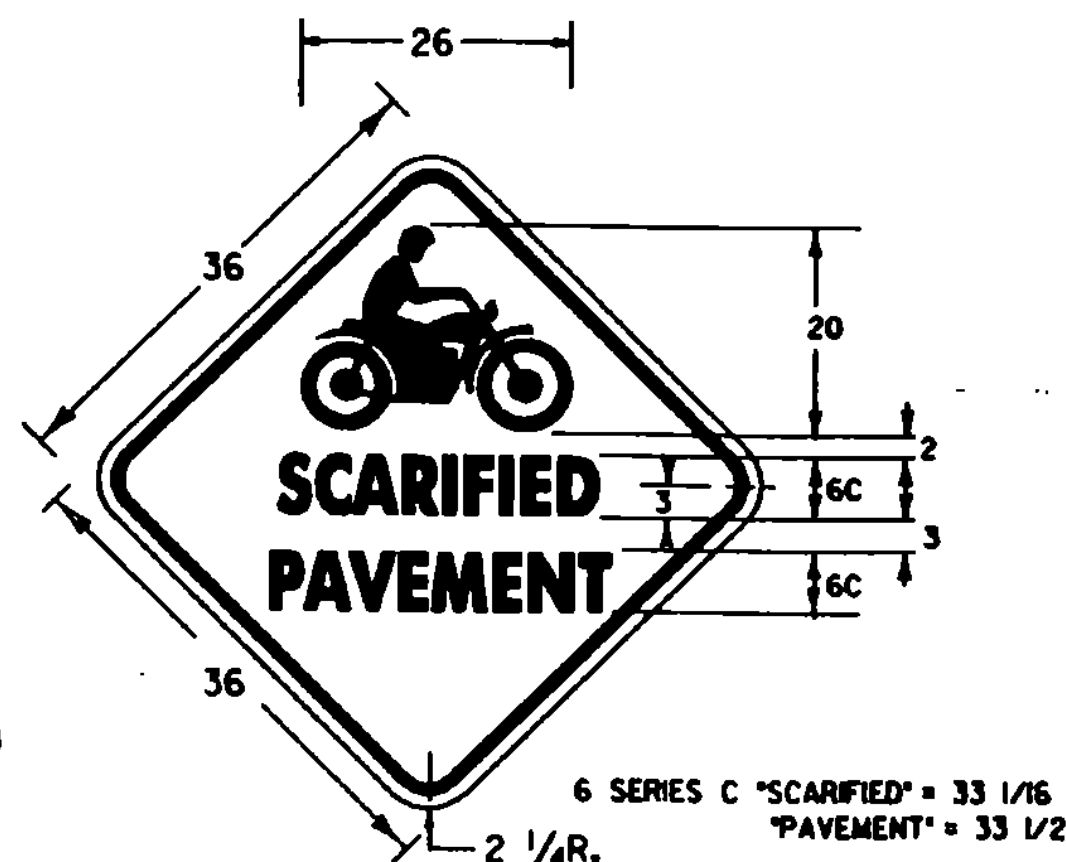
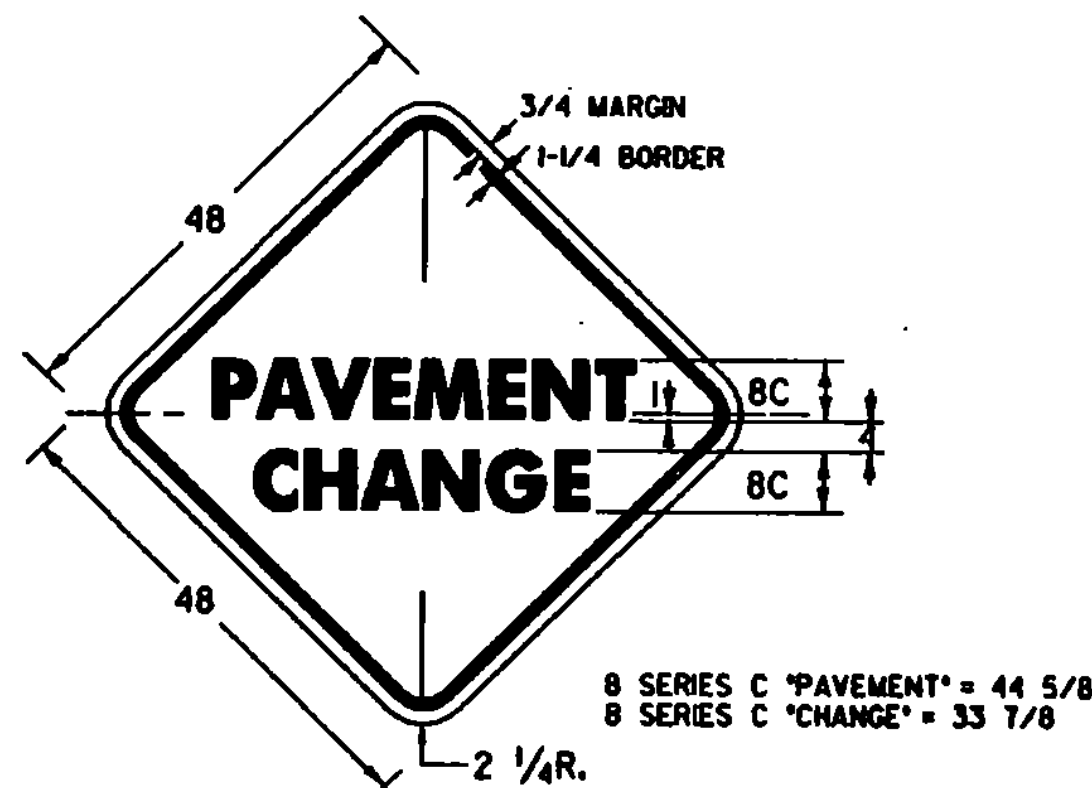
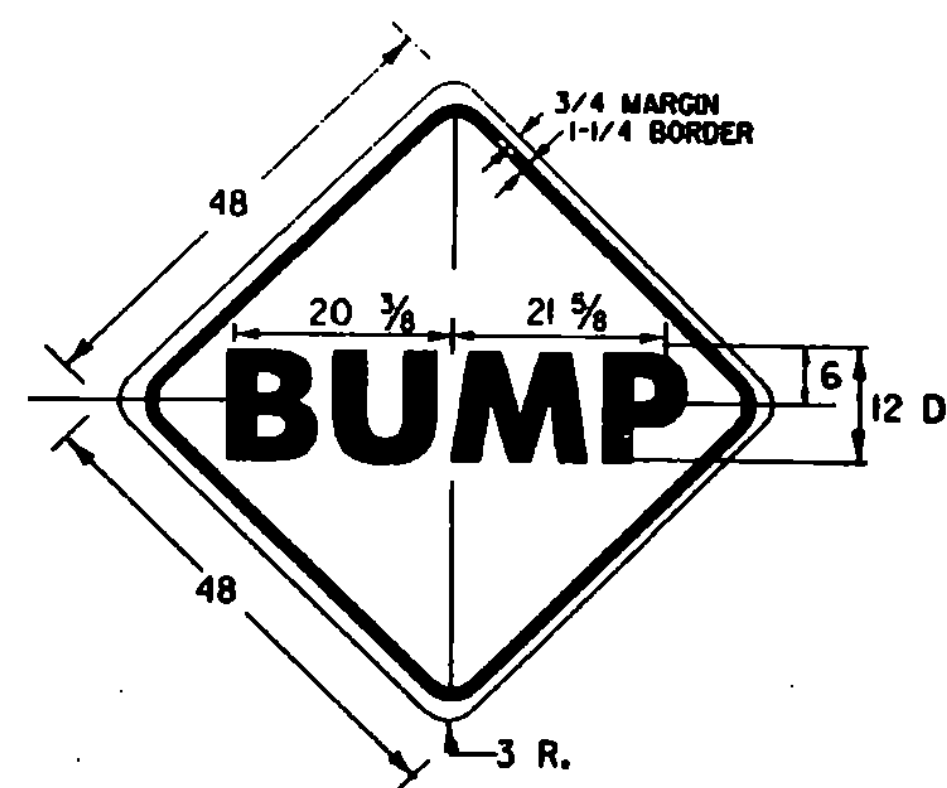
David B. Kelley
CHIEF ENGINEER
Arthur J. Ross
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION

Stephen B. MacArthur
TRAFFIC AND SAFETY ENGINEER

CONSTRUCTION SIGN DETAILS

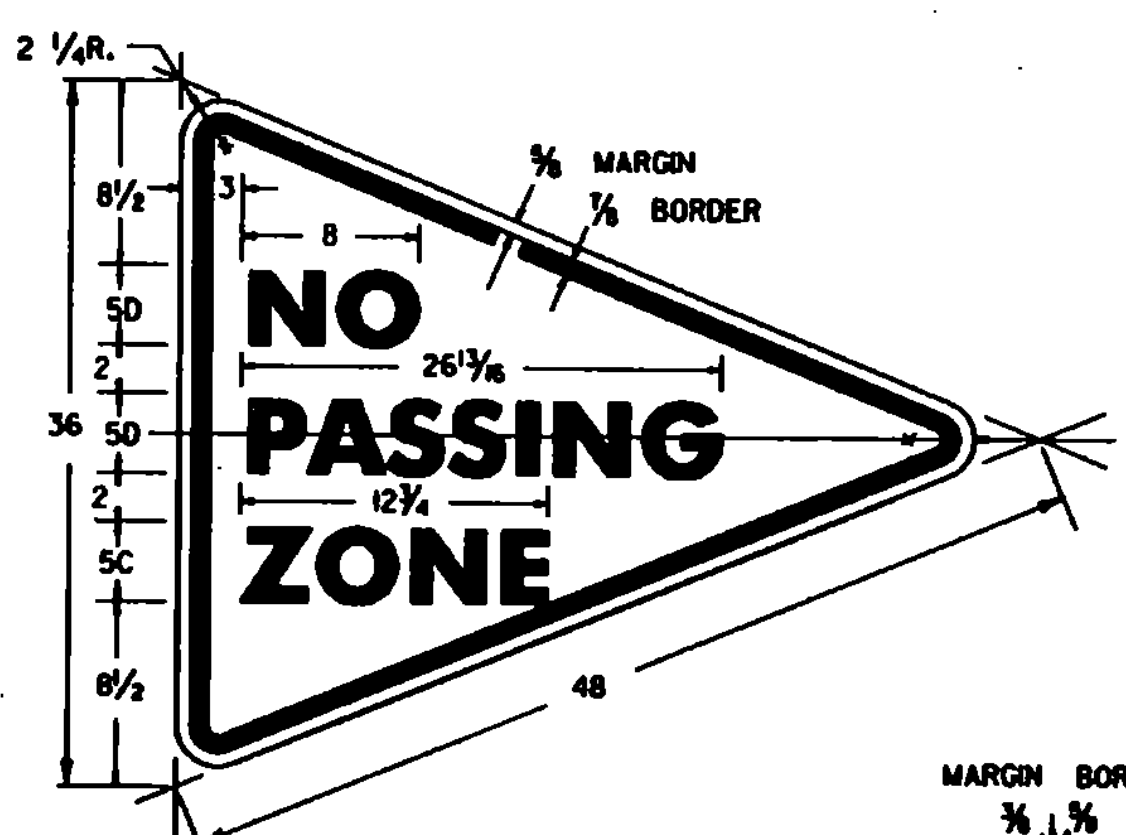
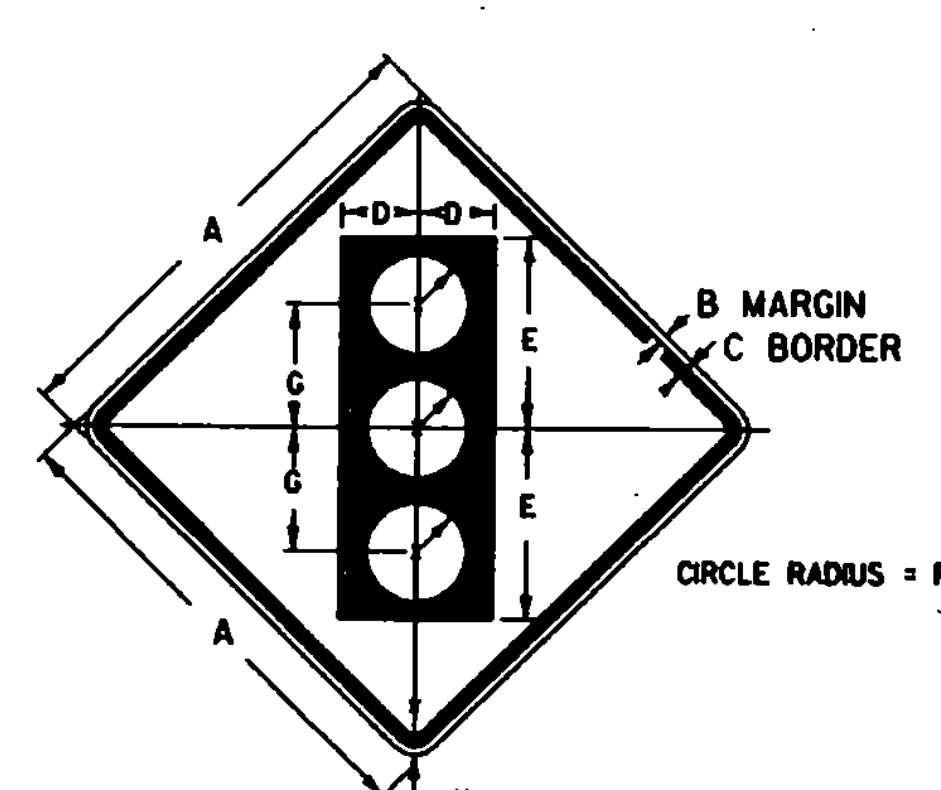
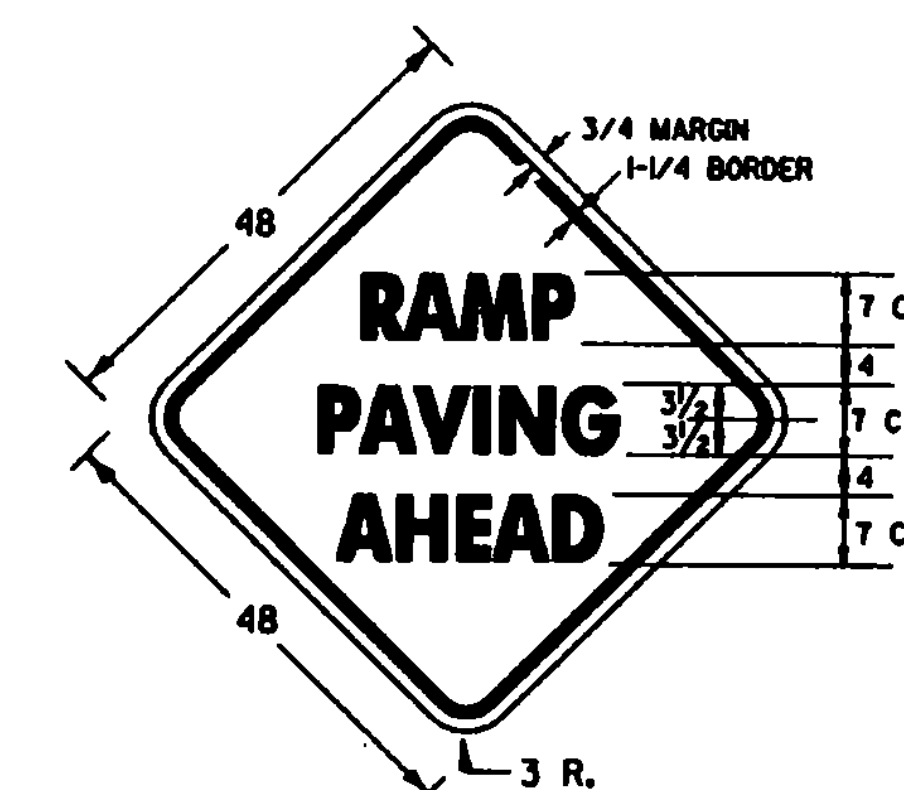
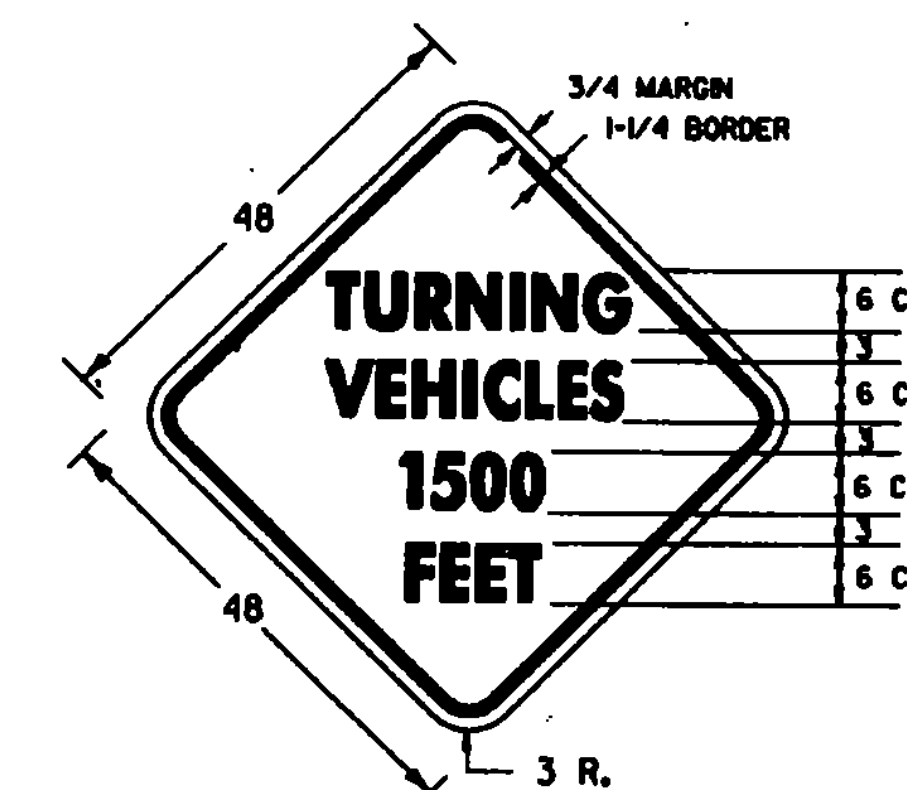
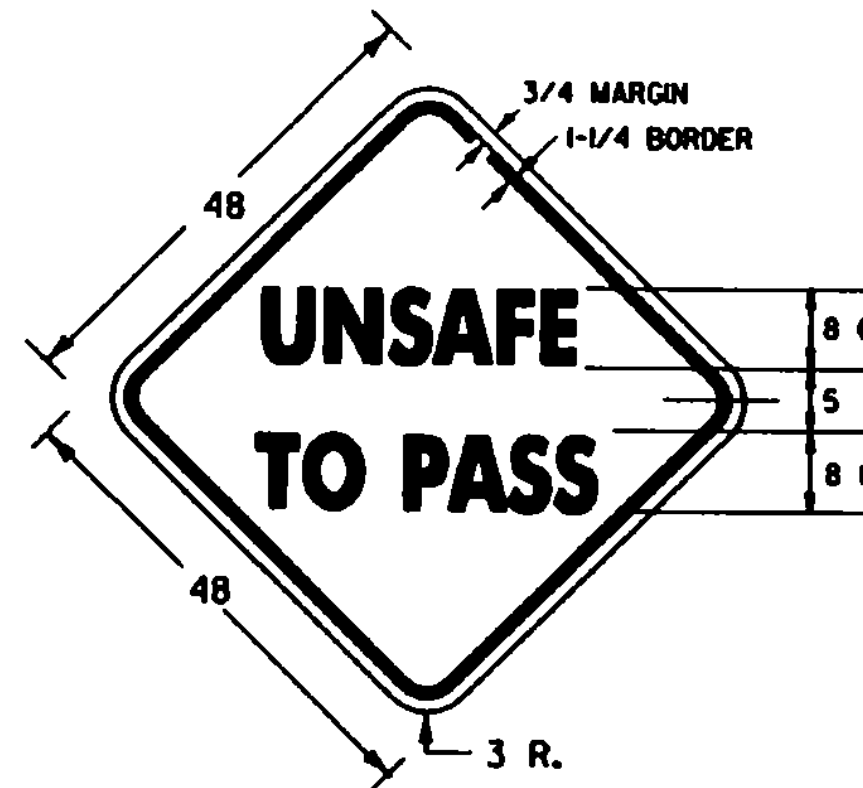
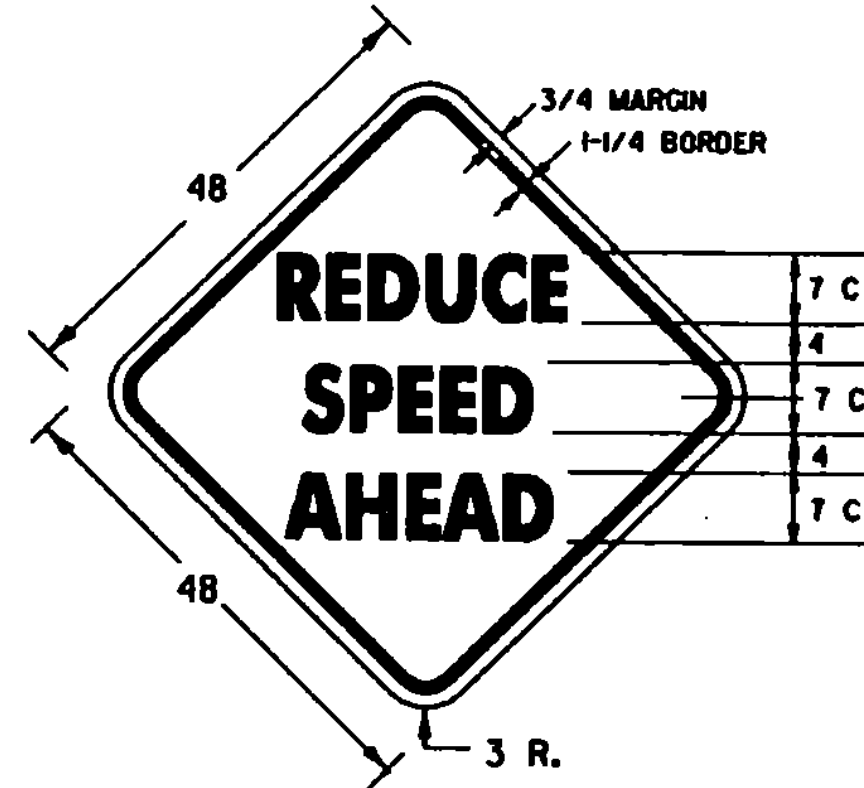
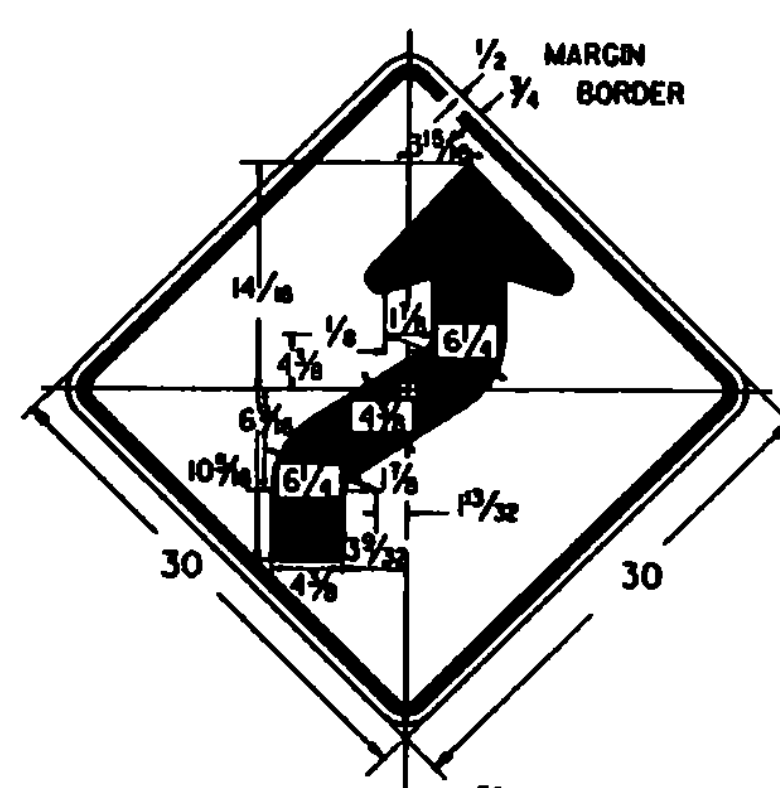
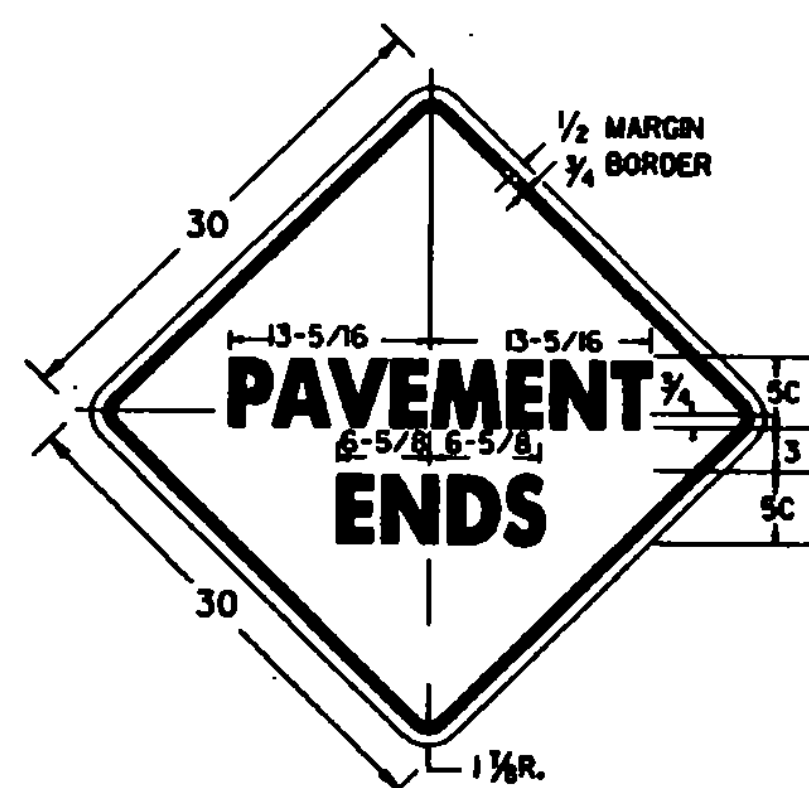


STANDARD
E-101



COLORS:
BACKGROUND - GREEN (REFL.)
BORDER, ARROW AND LEGEND - WHITE (REFL.)
SHIELD - BORDER - WHITE (REFL.)
TOP PORTION - RED (REFL.)
BOTTOM PORTION - BLUE (REFL.)
SHIELD DIMENSION REDUCED FROM
DETAILS SHOWN ON STD. SHEET E-135.

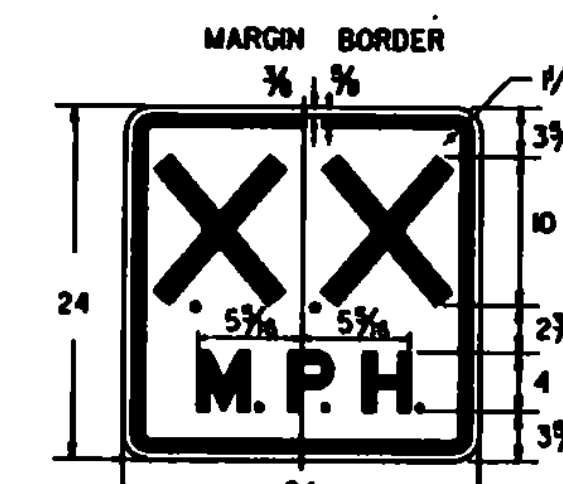
COLORS:
TEXT AND BORDER - BLACK
BACKGROUND - WHITE (REFL.)



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

COLORS

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



* INCREASE SPACING 100 %

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 (ENCAPSULATED LENS)
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.

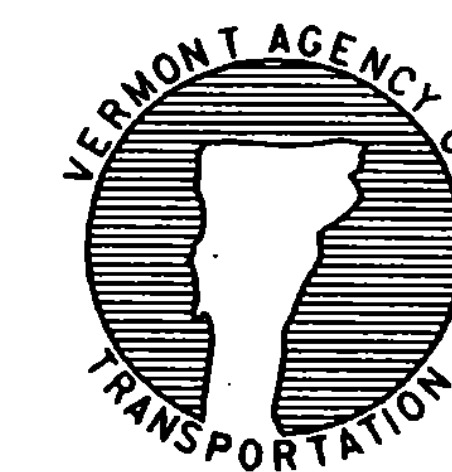
REVISIONS AND CORRECTIONS

APPROVED

OCT. 30, 1987
DATE

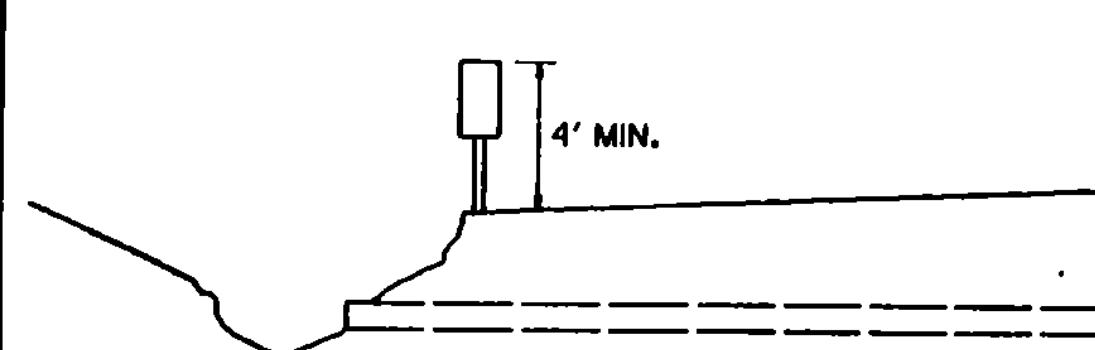
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Gordon B. MacArthur
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CONSTRUCTION SIGN DETAILS



STANDARD E-102

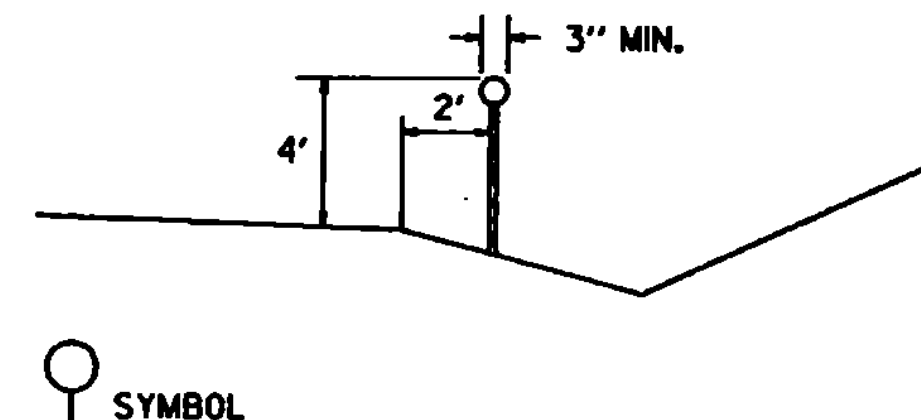
DELINEATOR AND OBJECT MARKER DETAILS FOR CONSTRUCTION AREAS WHERE TRAFFIC IS MAINTAINED



OBJECT MARKER TYPICAL

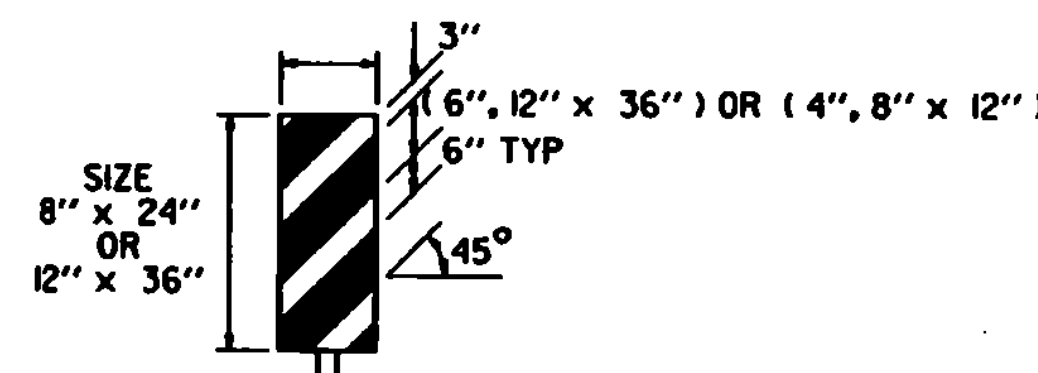
OBJECTS ADJACENT TO THE ROADWAY SHALL REQUIRE A OBJECT MARKER TO MARK THE OBSTRUCTION. IN SOME CASES THERE MAY NOT BE A PHYSICAL OBJECT INVOLVED BUT OTHER ROADSIDE CONDITIONS SUCH AS NARROW SHOULDER DROP-OFFS, GORES, D.I. EXCAVATIONS OR ABRUPT CHANGE IN THE ROADWAY ALIGNMENT MAY MAKE IT UNDESIRABLE FOR A DRIVER TO LEAVE THE ROADWAY. THE INSIDE EDGE OF THE OBJECT MARKER SHALL BE IN LINE WITH THE INNER EDGE OF THE OBSTRUCTION, WHENEVER POSSIBLE.

OBJECT MARKERS ARE 1' x 3' AND YELLOW WITH BLACK STRIPES WITH A DESIGN SIMILAR TO THE 12" x 36" VERTICAL PANEL.



DELINEATOR TYPICAL

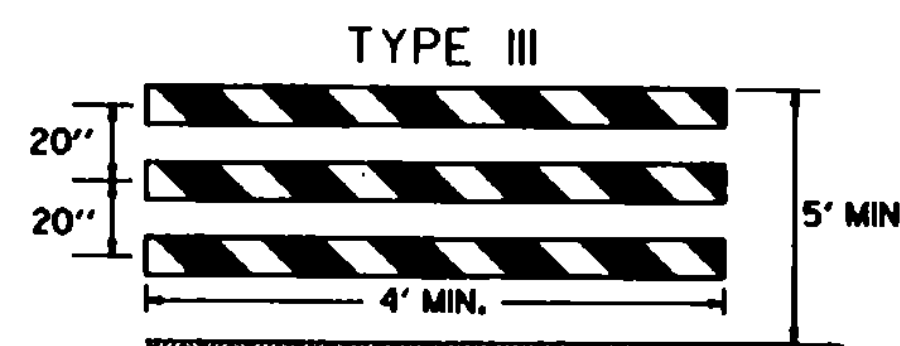
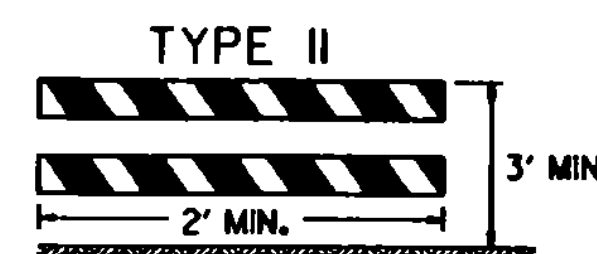
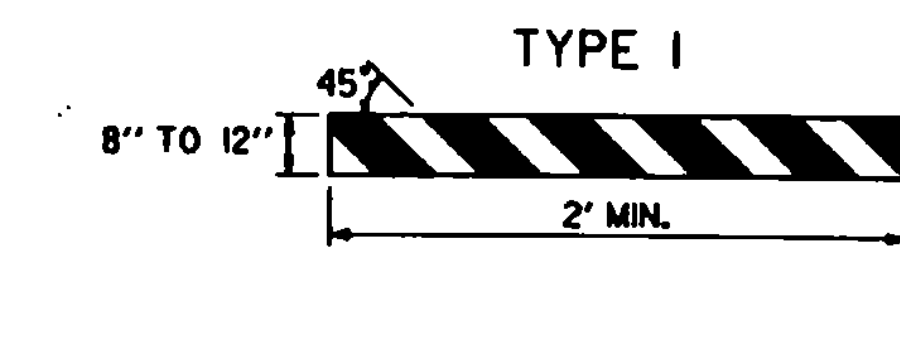
DELINEATORS SHALL BE REFLECTORIZED WHITE IN COLOR. THEY SHALL HAVE A MINIMUM OF 7 SQUARE INCHES. THEY MAY BE ROUND, SQUARE, OR OBLONG.



VERTICAL PANEL

VERTICAL PANELS SHALL HAVE ALTERNATING ORANGE AND WHITE REFLECTORIZED STRIPES (SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS). THESE DEVICES MAY BE USED FOR TRAFFIC SEPARATION OR SHOULDER BARRICADING WHERE SPACE IS AT A MINIMUM.

BARRIER CHARACTERISTICS



BARRICADE CHARACTERISTICS			
	I	II	III
WIDTH OF RAIL	8" MIN 12" MAX	8" MIN 12" MAX	8" MIN 12" MAX
LENGTH OF RAIL	2' MIN.	2' MIN.	4' MIN.
WIDTH OF STRIPES*	6"	6"	6"
HEIGHT	3' MIN.	3' MIN.	5' MIN.
TYPE OF FRAME	LIGHT 'A' FRAME NO STAY BRACE	LIGHT 'A' FRAME NO STAY BRACE	SEE E-107A
FLEXIBILITY	PORTABLE	PORTABLE	PORTABLE
ANGLE OF STRIPE	45°	45°	45°
COLOR OF STRIPES	ORANGE AND WHITE	ORANGE AND WHITE	ORANGE AND WHITE

* FOR RAILS LESS THAN 3 FEET LONG 4" WIDE STRIPES SHALL BE USED.

BARRICADES

APPLICATION NOTES

TYPE I BARRICADES ARE TO BE USED ON CONVENTIONAL ROADS OR URBAN STREET AND ARTERIALS TO MARK A SPECIFIC HAZARD.

TYPE II BARRICADES ARE TO BE USED ON EXPRESSWAYS AND FREEWAYS, SERVING THE SAME FUNCTIONS AS THE TYPE I BARRICADES.

TYPE III BARRICADES (SEE STANDARD E-107A) SHALL ONLY BE USED WHEN A ROAD SECTION IS CLOSED TO TRAFFIC AND ARE TO BE ERECTED AT THE POINT OF CLOSURE.

MATERIALS

THE BARRICADES SHOWN ON THIS SHEET NORMALLY WILL BE OF LIGHTWEIGHT MATERIAL. IF WOOD IS USED THE FOLLOWING CONDITIONS SHALL APPLY.

1. WOODEN BARRICADES (TYPES I AND II)

A. SHALL NOT BE USED TO CHANNELIZE OR DELINEATE WORK AREAS WITHIN THE CLEAR ZONE OF ANY HIGHWAY WHERE OPERATING SPEEDS IN EXCESS OF 20 MILES PER HOUR ARE EXPECTED UNLESS INSTALLED FOR PEDESTRIAN CONTROL BEHIND APPROVED POSITIVE BARRIERS.

B. MAY BE USED IF OPERATING SPEEDS OF 20 M.P.H. OR LESS ARE EXPECTED.

2. TYPE III WOODEN BARRICADES SHALL NOT BE USED WITHIN THE CLEAR ZONE OF ANY HIGHWAY REGARDLESS OF THE TRAFFIC OPERATING SPEED.

DESIGN

THE DESIGN OF THE BARRICADES SHALL CONFORM WITH THE DETAILS SHOWN ON THIS SHEET AND THE MARKINGS ON THE BARRICADES SHALL BE ALTERNATE ORANGE AND WHITE STRIPES (SLOPING DOWNWARD AT AN ANGLE OF 45° IN THE DIRECTION TRAFFIC IS TO PASS).

COLORS

THE BARRICADE PANELS SHOWN ON THIS SHEET SHALL HAVE ALTERNATING REFLECTORIZED WHITE AND ORANGE STRIPES. 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. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION. THE BARRICADE COMPONENTS SHALL BE WHITE EXCEPT THAT UNPAINTED METAL OR ALUMINUM MAY BE USED.

REFLECTORIZATION

THE BARRICADES SHALL BE REFLECTORIZED WITH REFLECTIVE SHEETING.

LOCATION

THE BARRICADES SHOWN ON THIS SHEET WILL BE LOCATED BY THE ENGINEER IN THE FIELD OR AS SHOWN ON THE PLANS. THE LOCATION OF THE BARRICADES SHALL FOLLOW THE PROCEDURES SET FORTH IN "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", OR AS OTHERWISE NOTED.

MAINTENANCE

BARRICADES SHALL BE MAINTAINED IN A CLEAN AND LEGIBLE CONDITION SATISFACTORY TO THE ENGINEER. THEY SHALL BE COMPLETELY VISIBLE TO APPROACHING TRAFFIC AT ALL TIMES. DAMAGED, DEFACED, OR DIRTY BARRICADES SHALL BE REPAIRED, CLEANED, OR REPLACED AS ORDERED BY THE ENGINEER.

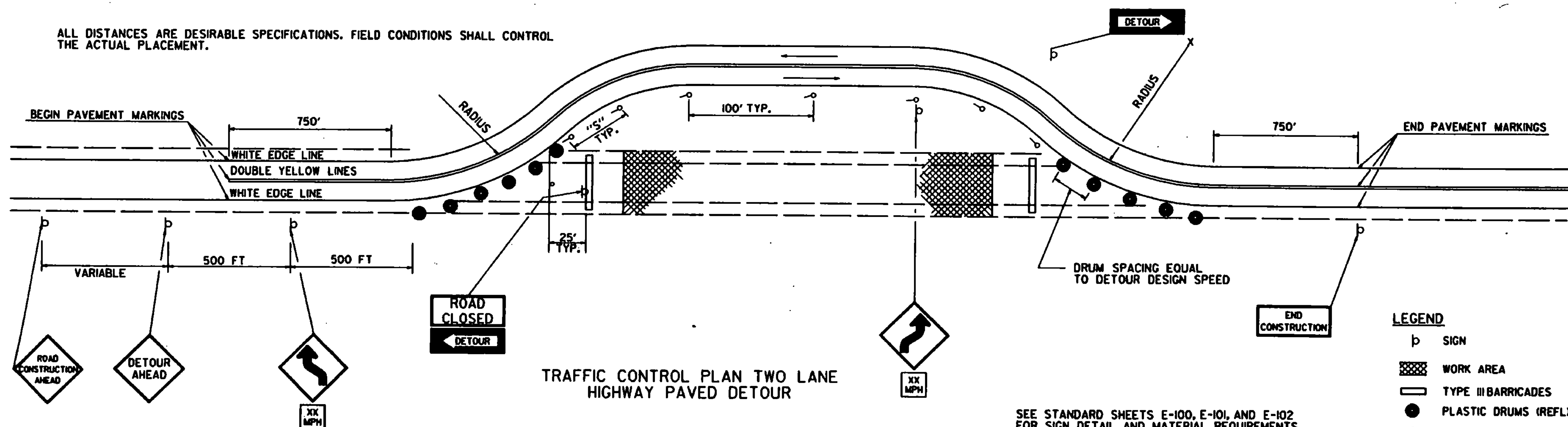
LIGHTING

FOR NIGHTTIME USE ADD FLASHING WARNING LIGHTS WHEN BARRICADES ARE USED SINGLY AND STEADY BURN LIGHTS WHEN BARRICADES ARE USED IN A SERIES FOR CHANNELIZATION. THE LIGHTING DEVICES SHALL CONFORM TO THOSE SPECIFIED IN THE M.U.T.C.D.

DETOUR DESIGN SPEED MPH	RADIUS FT	SPACING - "S" FT
25	150	30
30	250	40
40	450	60
50	750	75

ALL DISTANCES ARE DESIRABLE SPECIFICATIONS. FIELD CONDITIONS SHALL CONTROL THE ACTUAL PLACEMENT.

1. SIGNS AND DELINEATION SHOWN FOR ONE DIRECTION OF TRAFFIC ONLY.
2. CHANNELIZING DEVICES SHALL CONSIST OF TYPE II BARRICADES WITH STEADY BURN LIGHTS EXCEPT ON THE FIRST AND LAST BARRICADES WHICH SHALL HAVE A FLASHING LIGHT.
3. FLASHING WARNING LIGHTS MAY BE USED TO CALL ATTENTION TO THE EARLY WARNING SIGNS.
4. CONTRACTOR IS RESPONSIBLE FOR PAVEMENT MARKING AND SHALL REMOVE ANY CONFLICTING OR CONFUSING EXISTING MARKINGS.
5. ADDITIONAL SIGNING MAY BE REQUIRED AT THE DISCRETION OF THE ENGINEER.
6. UNPAVED DETOURS REQUIRE PAVEMENT MARKINGS FOR TRANSITIONS ON EXISTING PAVEMENT.



SEE STANDARD SHEETS E-100, E-101, AND E-102 FOR SIGN DETAIL AND MATERIAL REQUIREMENTS

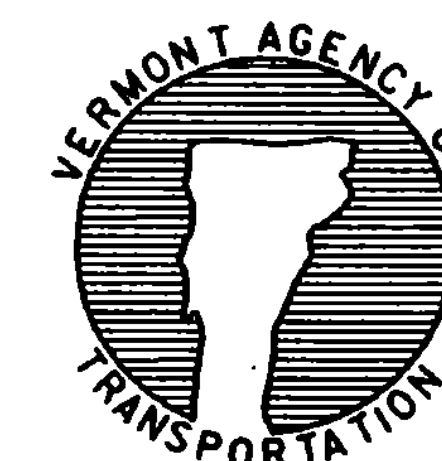
REVISIONS AND CORRECTIONS

APPROVED

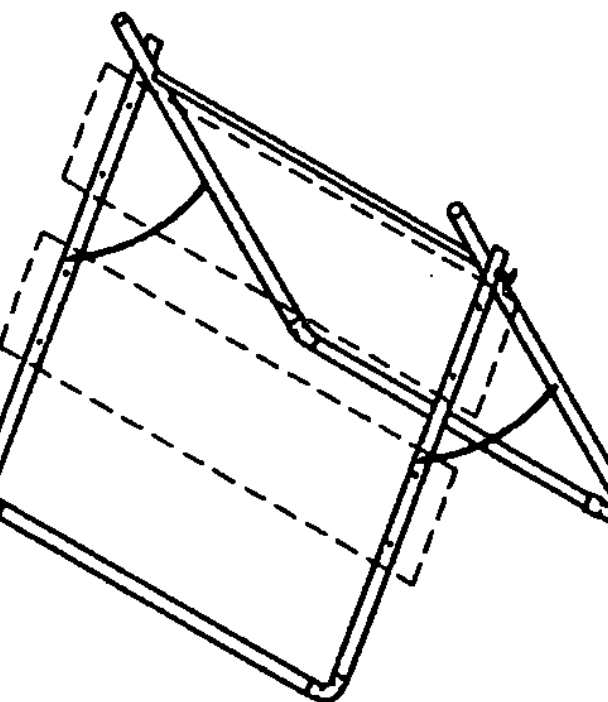
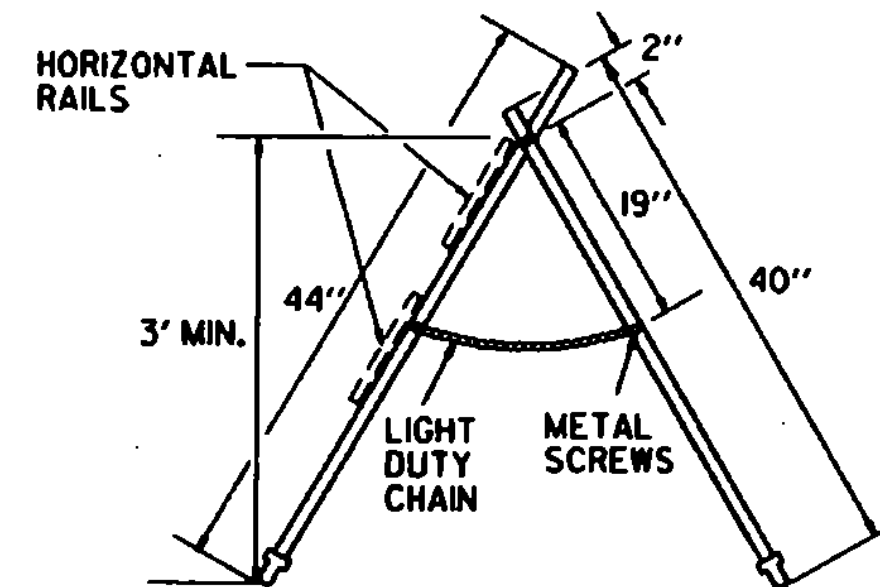
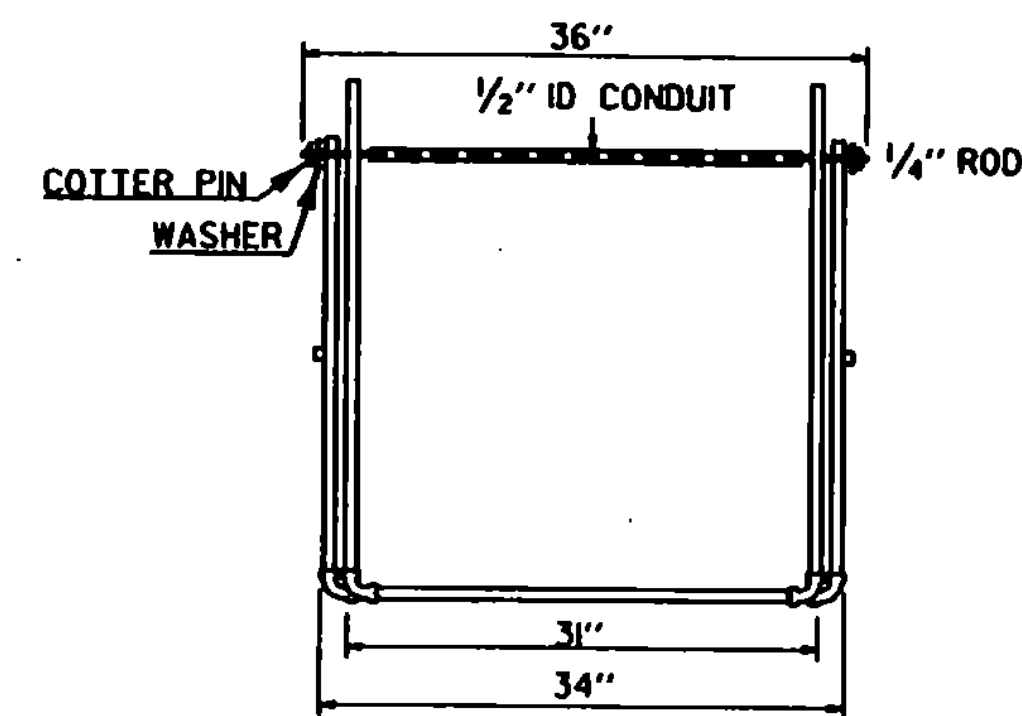
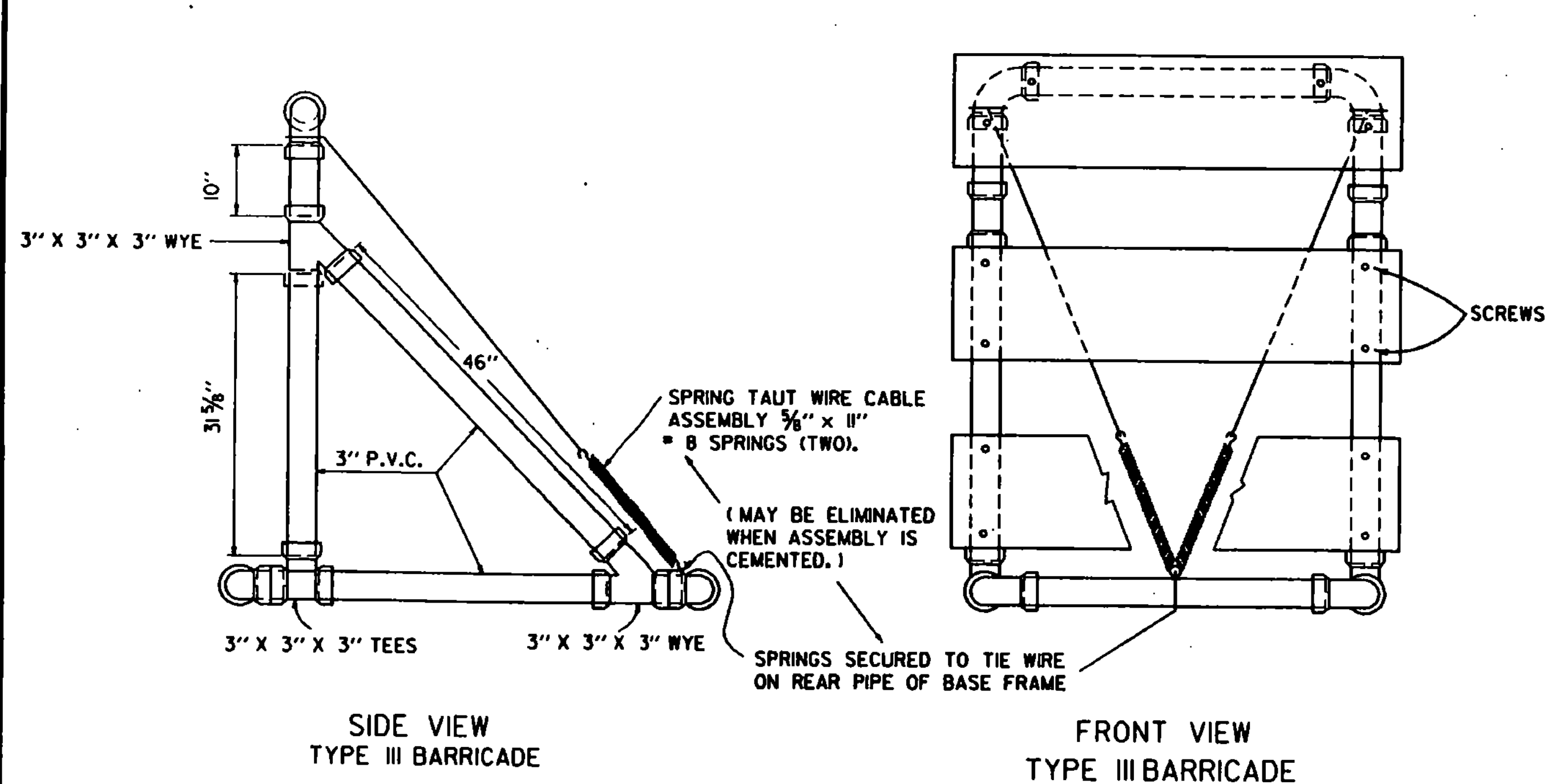
SEPT. 10, 1987
DATE

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Gordon B. MacArthur
TRAFFIC AND SAFETY ENGINEER

DELINEATION, BARRICADES AND DETOURS FOR CONSTRUCTION AREAS



STANDARD
E-107



TYPE I AND II BARRICADE DETAIL

MATERIALS

THE PIPE, WYES, TEES AND ELBOWS USED TO CONSTRUCT BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 224 FOR P.V.C. 1120 OR 1220 SDR-21, PRESSURE RATING 200 PSI. THE WYES, TEES AND ELBOWS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 2466, TYPE II, GRADE I. ALL JOINTS SHALL BE SLIP-FIT AND MAY BE LIGHTLY CEMENTED. THE BARRICADE RAILS SHALL BE FABRICATED FROM 0.025\"/>

MAINTENANCE

BARRICADES SHALL BE MAINTAINED IN CLEAN CONDITION SATISFACTORY TO THE ENGINEER. THEY SHALL BE COMPLETELY VISIBLE TO APPROACHING TRAFFIC AT ALL TIMES. DAMAGED, DEFACED, OR DIRTY BARRICADES SHALL BE REPAIRED, CLEANED OR REPLACED AS ORDERED BY THE ENGINEER. THE P.V.C. PIPE AND FITTINGS SHALL BE WHITE IN COLOR. AT LEAST TWO (2) HOLES SHALL BE DRILLED (5/16\"/>

BARRICADES SHALL BE STABILIZED WITH SAND BAGS OF MINIMUM WEIGHT WHICH WILL NOT CONSTITUTE A HAZARD IF THE BARRICADE IS HIT. THESE SHALL BE PLACED ONLY ON THE FRONT AND REAR PIPES OF THE BASE FRAME OF THE BARRICADE. SAND BAG STABILIZERS SHALL BE SO PLACED AS NOT TO BE A HAZARD TO VEHICLES PASSING ON EITHER SIDE. IF BARRICADE REPLACEMENT COSTS CAN BE CONSIDERED NEGLIGIBLE, GLUED JOINTS MAY PROVIDE ADDITIONAL STABILITY TO THE INSTALLATION.

TYPE I BARRICADES SHALL UTILIZE ONE HORIZONTAL RAIL.

TYPE II BARRICADES SHALL CONSIST OF AN ADDITIONAL HORIZONTAL RAIL MOUNTED BELOW THE OTHER.

TYPE III BARRICADES (MODIFIED) SHALL CONSIST OF THE BREAKAWAY 3\"/>

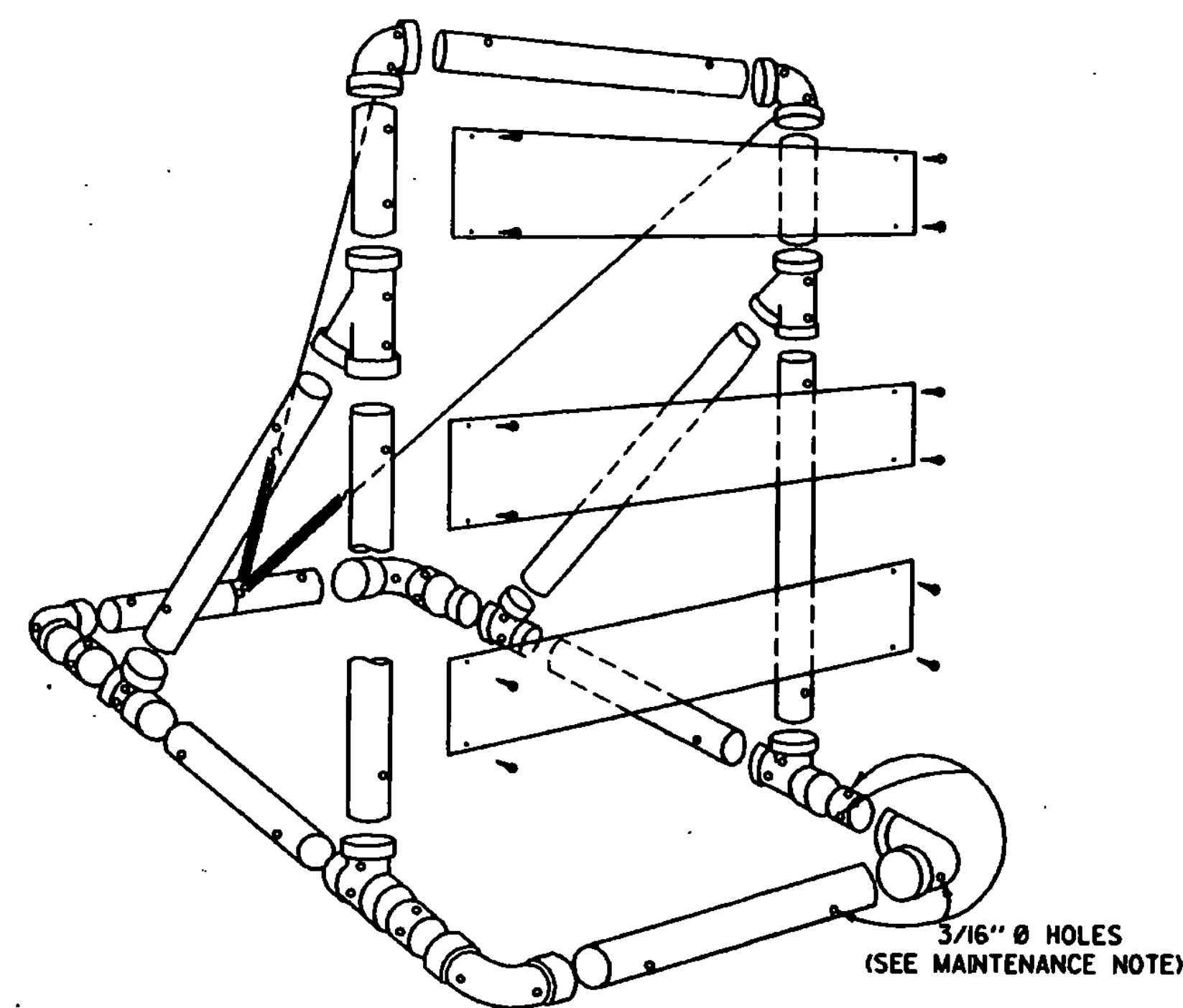
SEE STD E-107 FOR ADDITIONAL INFORMATION.

MATERIALS FOR TYPE I AND II BARRICADES

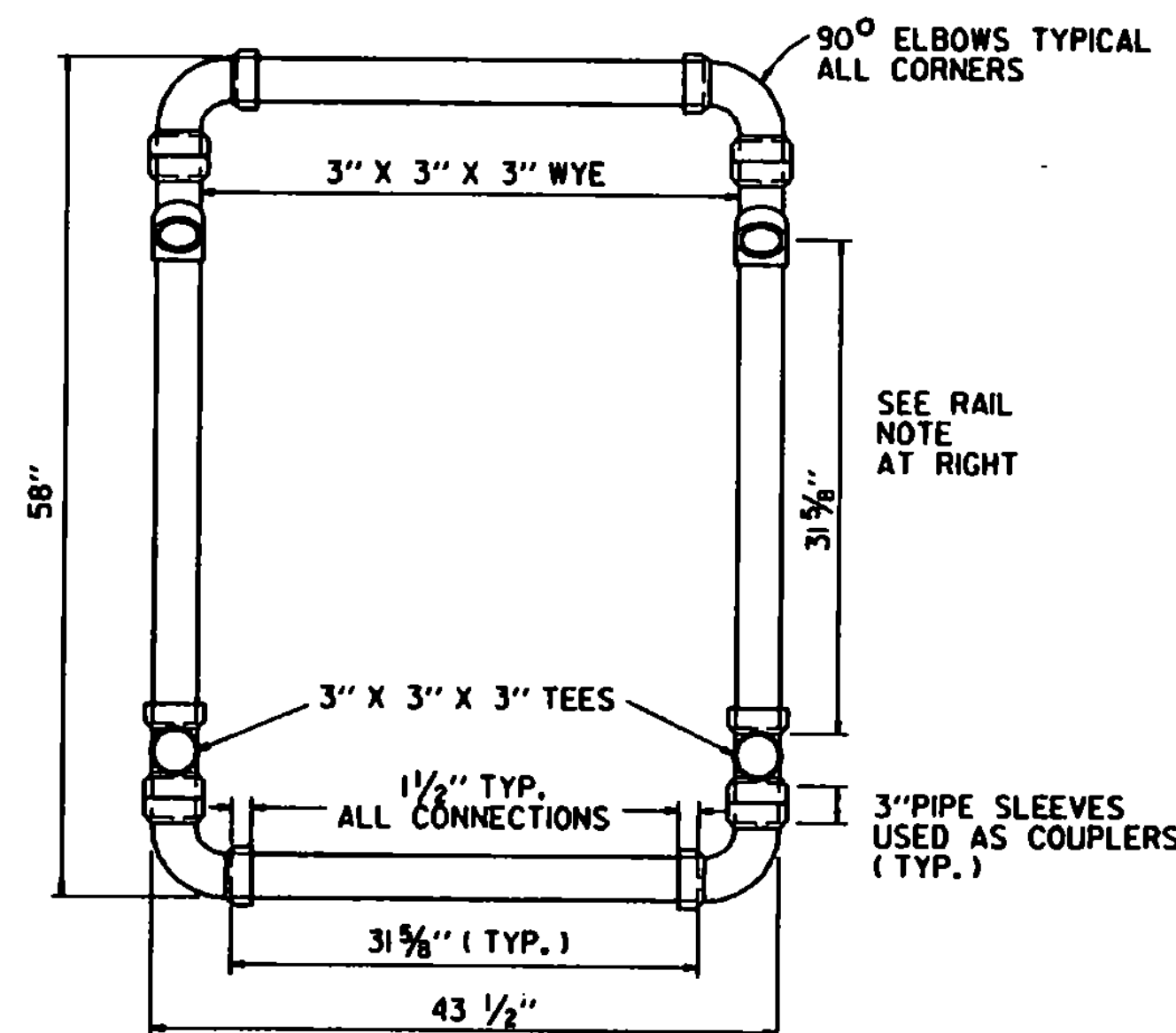
20' - 1\"/>

MATERIALS FOR TYPE III BARRICADE

30' - 3\"/>

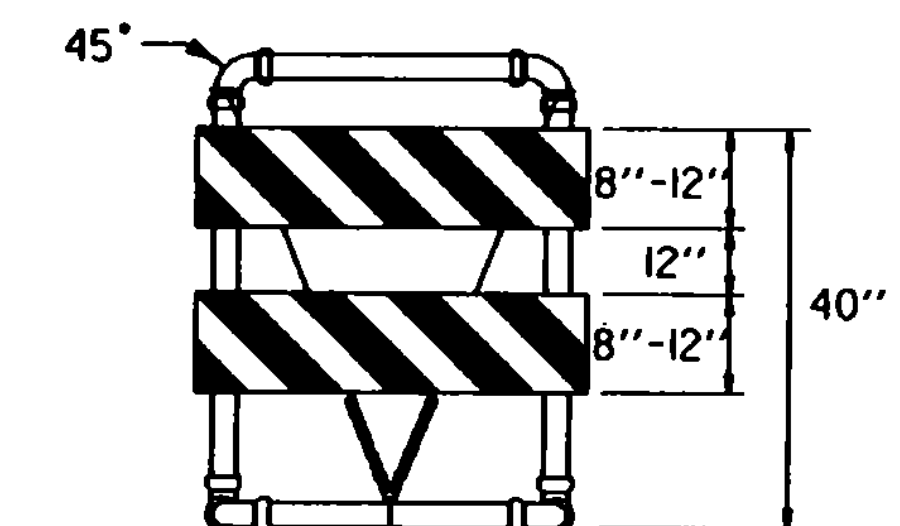


TYPE III BARRICADE ASSEMBLY
EXPLODED VIEW



TYPE III BARRICADE

TOP VIEW OF
BASE



TYPE III (MODIFIED) BARRICADE
(STRIPING DOWN WHERE TRAFFIC PASSES ON RIGHT).

SEE STANDARD E-107 FOR RAIL DETAILS.
RAILS ATTACHED WITH 1\"/>

REVISIONS AND CORRECTIONS

APPROVED

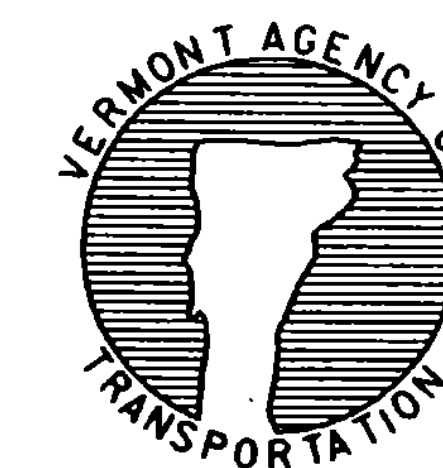
SEPT. 10, 1987
DATE

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AND PRE-CONSTRUCTION

Gordon R. MacArthur
TRAFFIC AND SAFETY ENGINEER

BREAKAWAY BARRICADE DETAILS



STANDARD
E-107a

NOTES:

REFLECTORIZATION

ALL SIGNS INTENDED TO BE USED DURING THE HOURS OF DARKNESS SHALL BE EITHER REFLECTORIZED OR ILLUMINATED TO SHOW APPROXIMATELY THE SAME SHAPE AND COLOR DAY AND NIGHT. CONES USED FOR TRAFFIC CONTROL AT NIGHT SHALL HAVE A MINIMUM 6" WIDE WHITE REFLECTORIZED BAND PLACED A MAXIMUM OF 2" FROM THE TOP.

COLORS

THE WARNING SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT, BORDER, AND SYMBOLS ON AN ORANGE BACKGROUND. THE TEXT AND BORDERS MAY BE SCREENED, LETTERING FILM, OR HAND PAINTED. 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. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

TEXT DESIGN

LETTERS, DIGITS, SPACING, AND TEXT DIMENSIONS SHALL CONFORM WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS" AS REFERENCED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

SPECIFICATIONS

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

SIGN BASE MATERIAL

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

FLAT SHEET ALUMINUM	0.025 INCHES
HIGH DENSITY OVERLAYED PLYWOOD	3/4 INCHES
GALVANIZED SHEET STEEL	12 GAGE

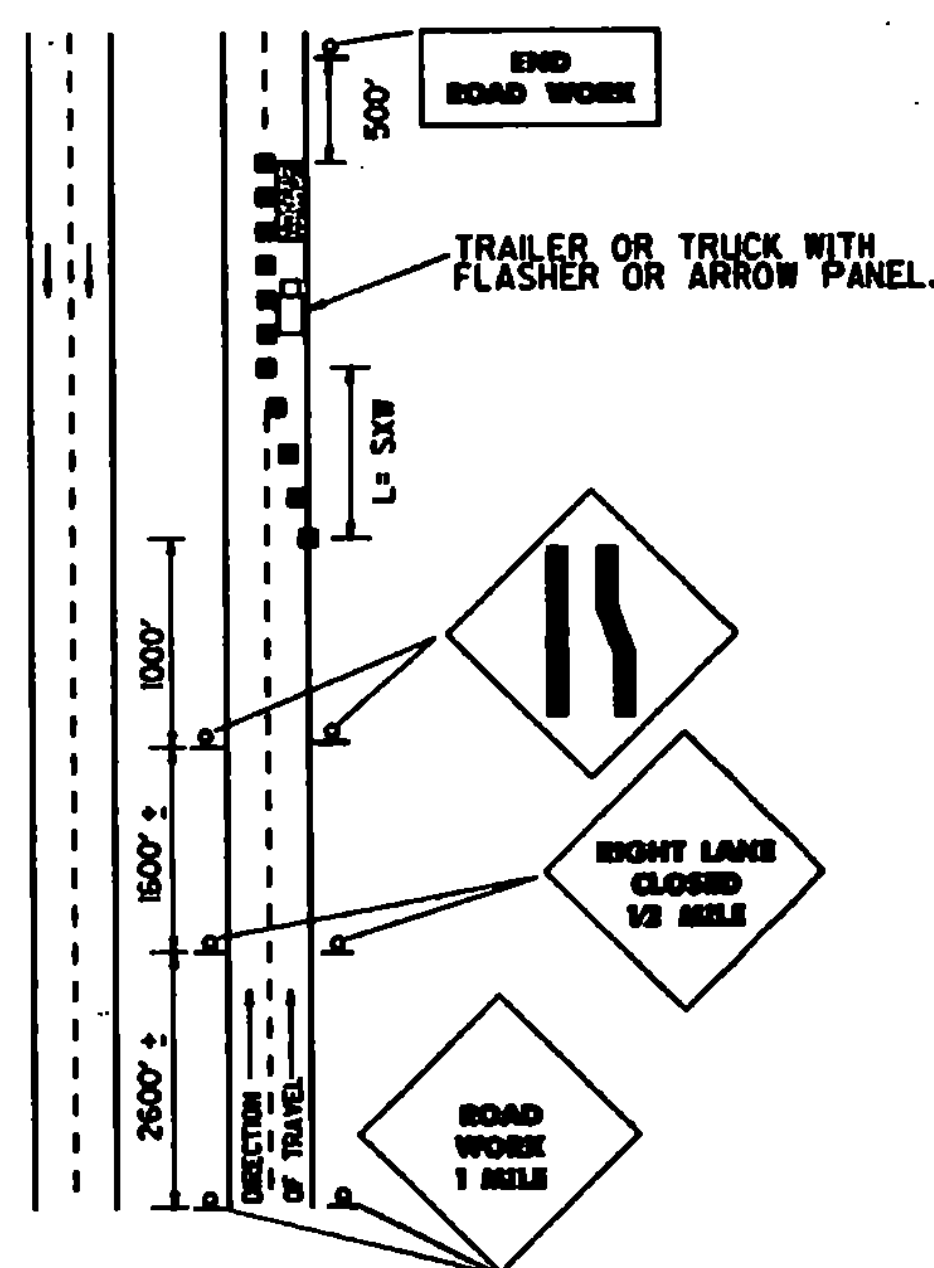
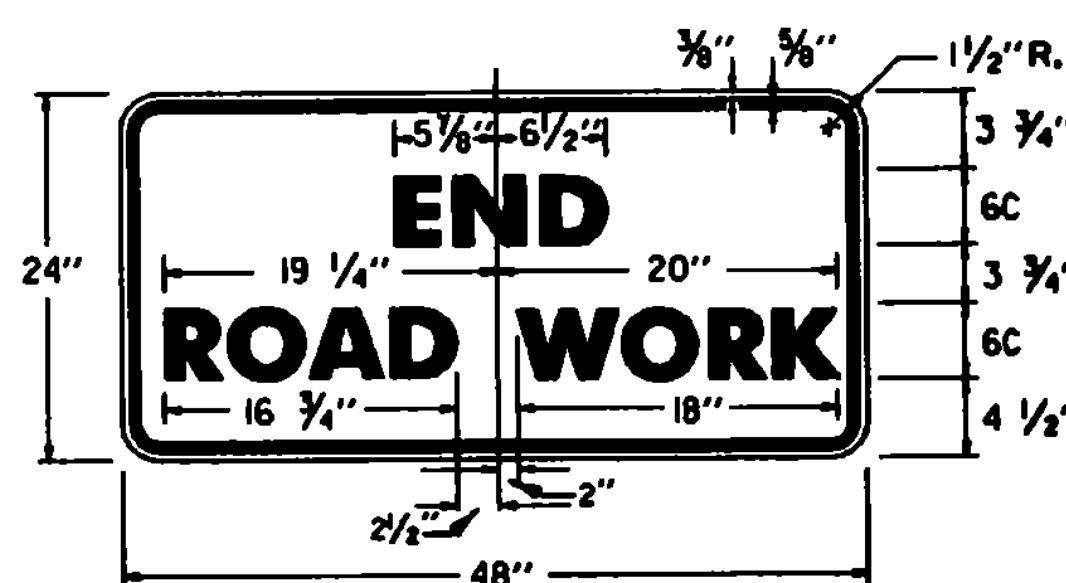
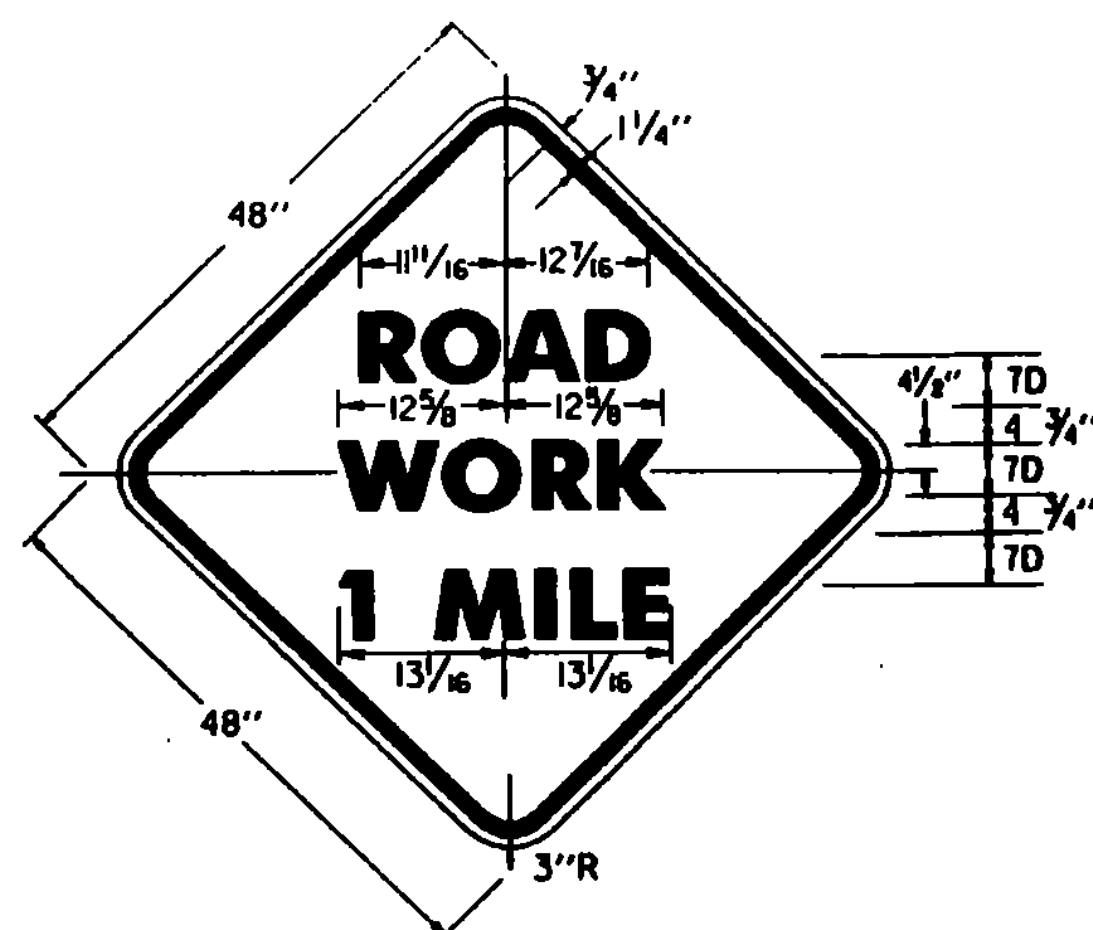
- SIGNS WITH "ROAD CONSTRUCTION 1500 FT" AND "END CONSTRUCTION" TEXT SHALL BE USED WHEN THE WORK IS NOT COMPLETE AND A HAZARD REMAINS OVERNIGHT.
- FLAGPERSON SHALL USE THE SIGN PADDLE DETAIL ON STANDARD SHEET E-102.
- ALL SIGNS SHALL BE COVERED OR REMOVED AT THE END OF THE WORKING DAY UNLESS REQUIRED FOR THE PROTECTION AND SAFETY OF THE TRAVELING PUBLIC.
- INSTALLATION SIGNS AND BARRICADES SHALL BE IN PLACE PRIOR TO THE START OF THE MAINTENANCE OPERATION TO WHICH THEY APPLY AND SHALL BE REMOVED PROMPTLY WHEN THE NEED NO LONGER EXISTS. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER ON WOOD OR METAL POSTS SET SECURELY IN THE GROUND, OR ON PORTABLE SUPPORTS FOR TEMPORARY USE, OR ON BARRICADES WHEN APPROPRIATE. AS A GENERAL RULE, ROADSIDE SIGNS SHALL BE 5 FEET ABOVE ROAD LEVEL WITH THE NEAREST EDGE AT LEAST 6 FEET OUTSIDE THE SHOULDER POINT. THE INSTALLATION OF SIGNS AND BARRICADES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- ALTHOUGH LISTED AS A MAINTENANCE OPERATION STANDARD SIGN SHEET, THE APPROACH SIGNS SHOWN SHALL BE USED BY CONTRACTORS WHEN WORKING WITHIN OR OUTSIDE PROJECT LIMITS.
- ALL DISTANCES ARE DESIRABLE SPECIFICATIONS. FIELD CONDITION SHALL CONTROL THE ACTUAL PLACEMENT.
- SIGN DETAILS NOT SHOWN ON THIS SHEET CAN BE FOUND ON STANDARD SHEETS E-100, E-101, AND E-102.
- TAPER FORMULA

$$L = \frac{WS^2}{60}$$

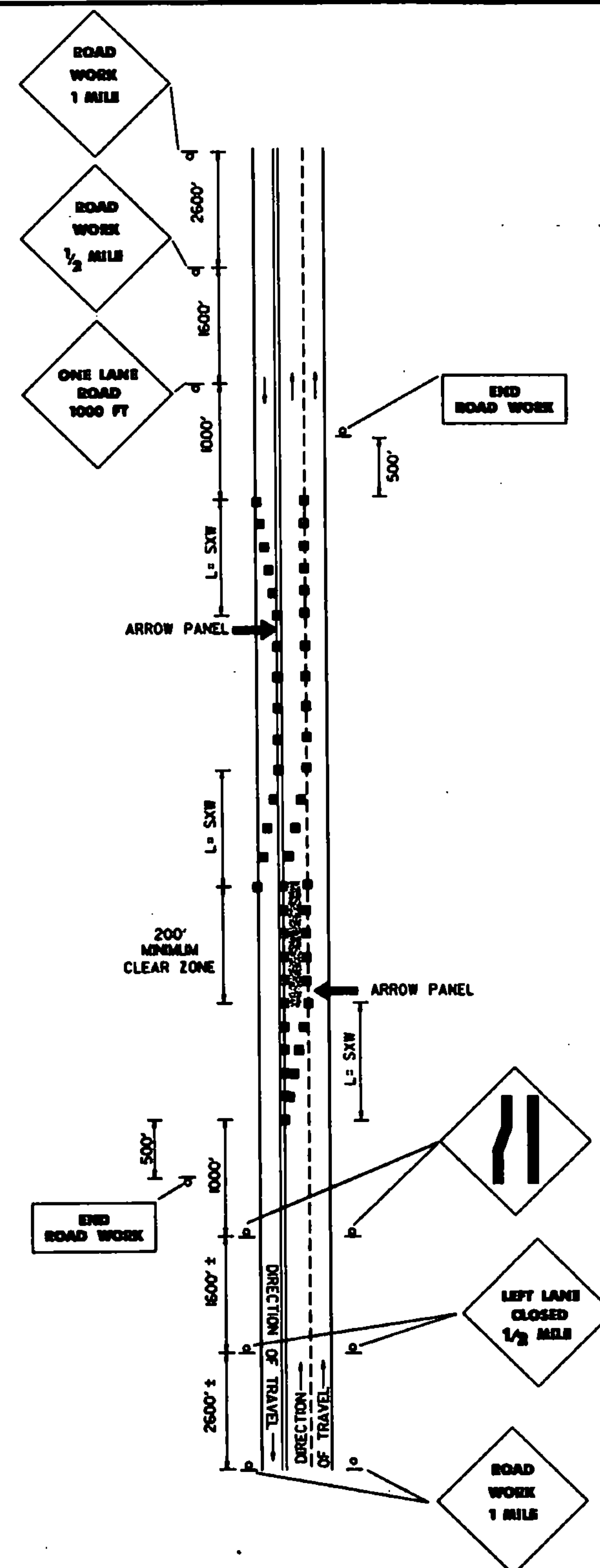
WHERE:
L = MINIMUM LENGTH OF TAPER.
S = NUMERICAL VALUE OF POSTED SPEED LIMIT PRIOR TO WORK OR 85 PERCENTILE SPEED.
W = WIDTH OF OFFSET.
- THE MAXIMUM SPACING BETWEEN CHANNELIZING DEVICES IN A TAPER SHOULD BE APPROXIMATELY EQUAL IN FEET TO THE SPEED LIMIT.
- FLOOD LIGHTS SHOULD BE PROVIDED TO MARK FLAGPERSON STATIONS AT NIGHT AS NEEDED.
- IF ENTIRE WORK AREA IS VISIBLE FROM ONE STATION, A SINGLE FLAGPERSON MAY BE USED.
- CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

KEY:

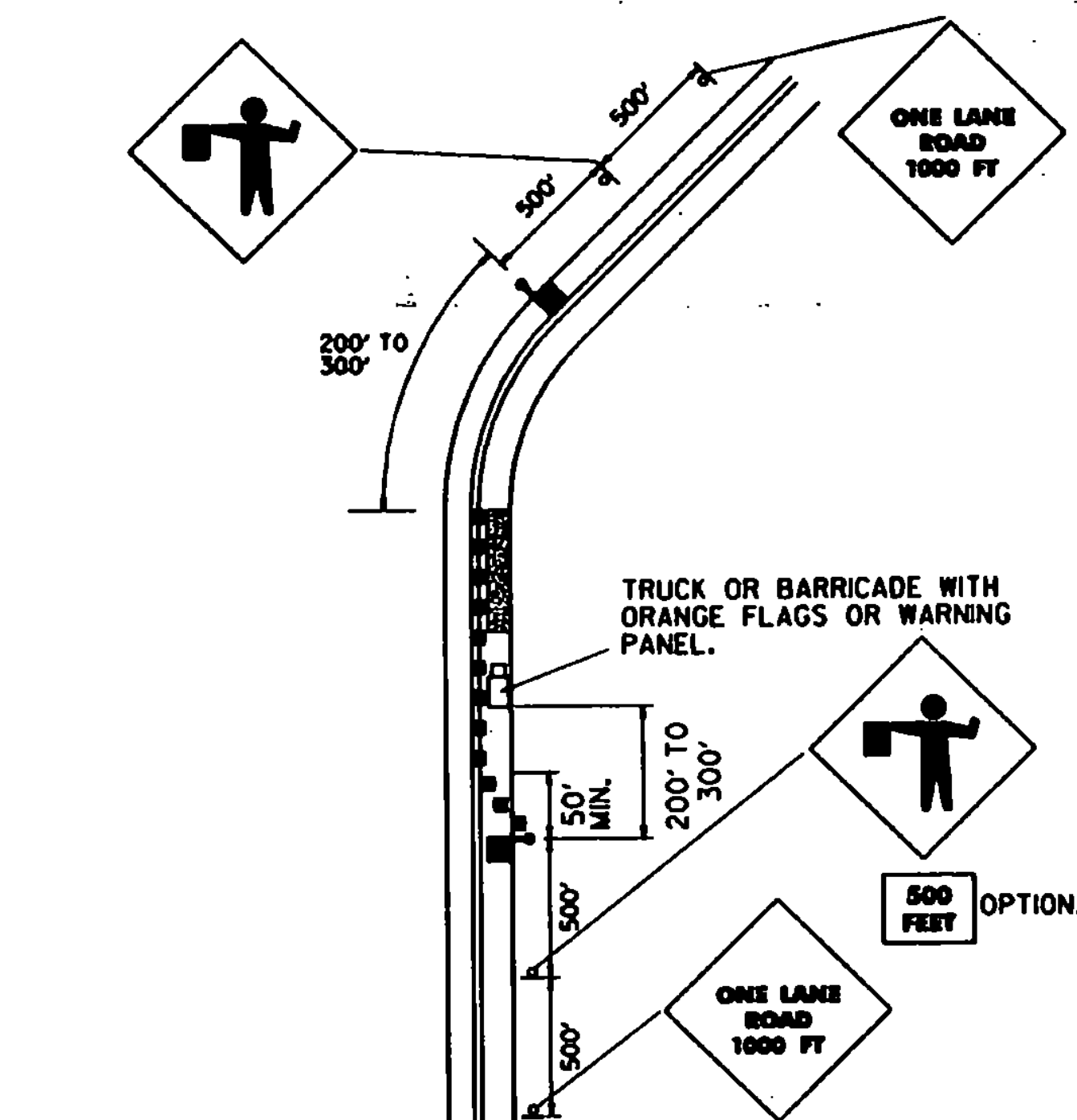
- FLAGPERSON
- CHANNELIZING DEVICES



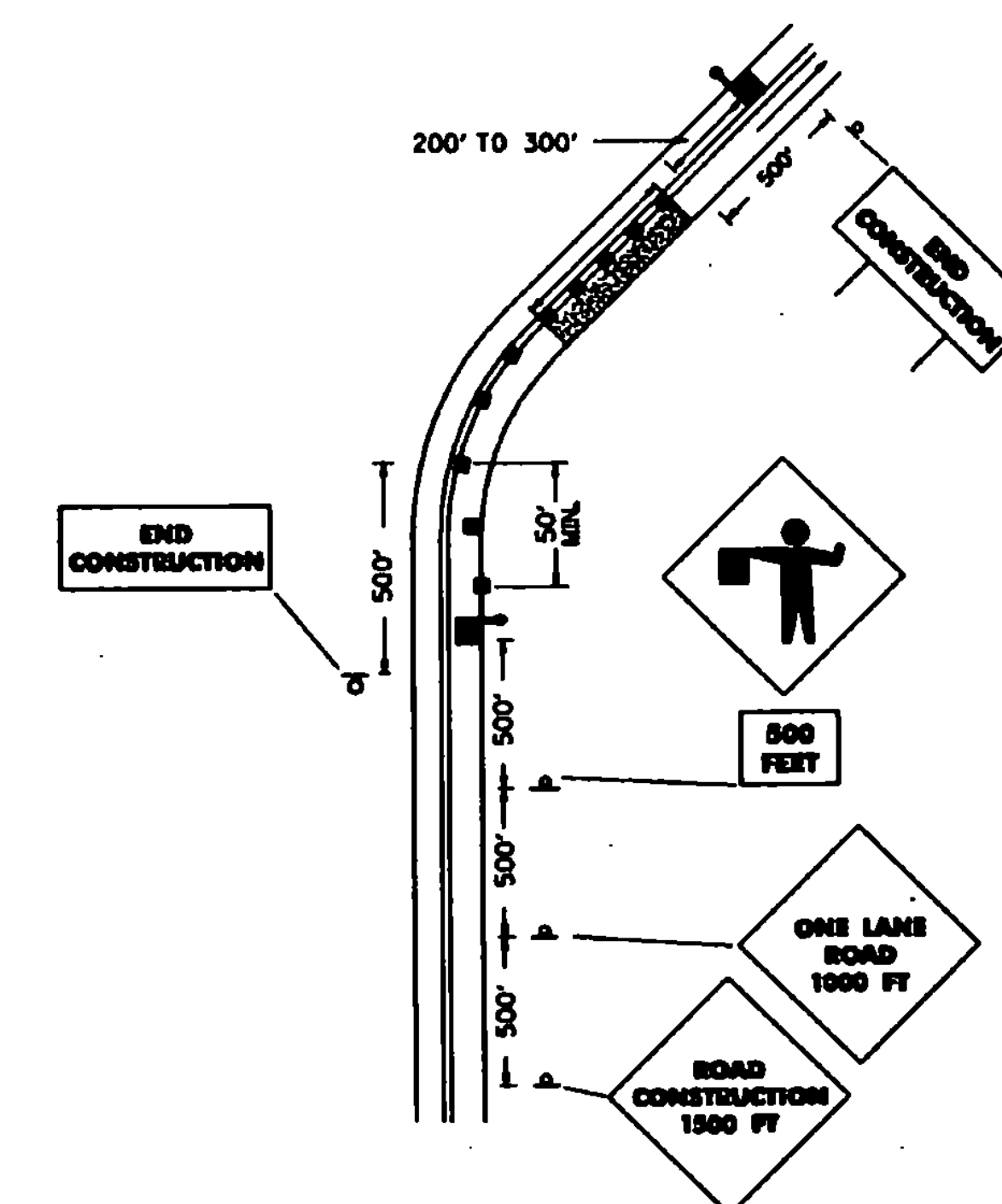
TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATIONS OF SHORT DURATION ON A 4-LANE DIVIDED ROADWAY WHERE HALF OF ROADWAY IS CLOSED.



TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATION OF SHORT DURATION ON A 3 LANE ROADWAY WHERE CENTER LANE IS USED FOR OPPOSING TRAFFIC



TYPICAL APPLICATION - DAYTIME MAINTENANCE OPERATIONS OF SHORT DURATION ON A 2-LANE ROADWAY WHERE FLAGGING IS PROVIDED.



TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES ON 2-LANE HIGHWAY WHERE ONE LANE IS CLOSED AND FLAGGING IS PROVIDED.

REVISIONS AND CORRECTIONS

APPROVED

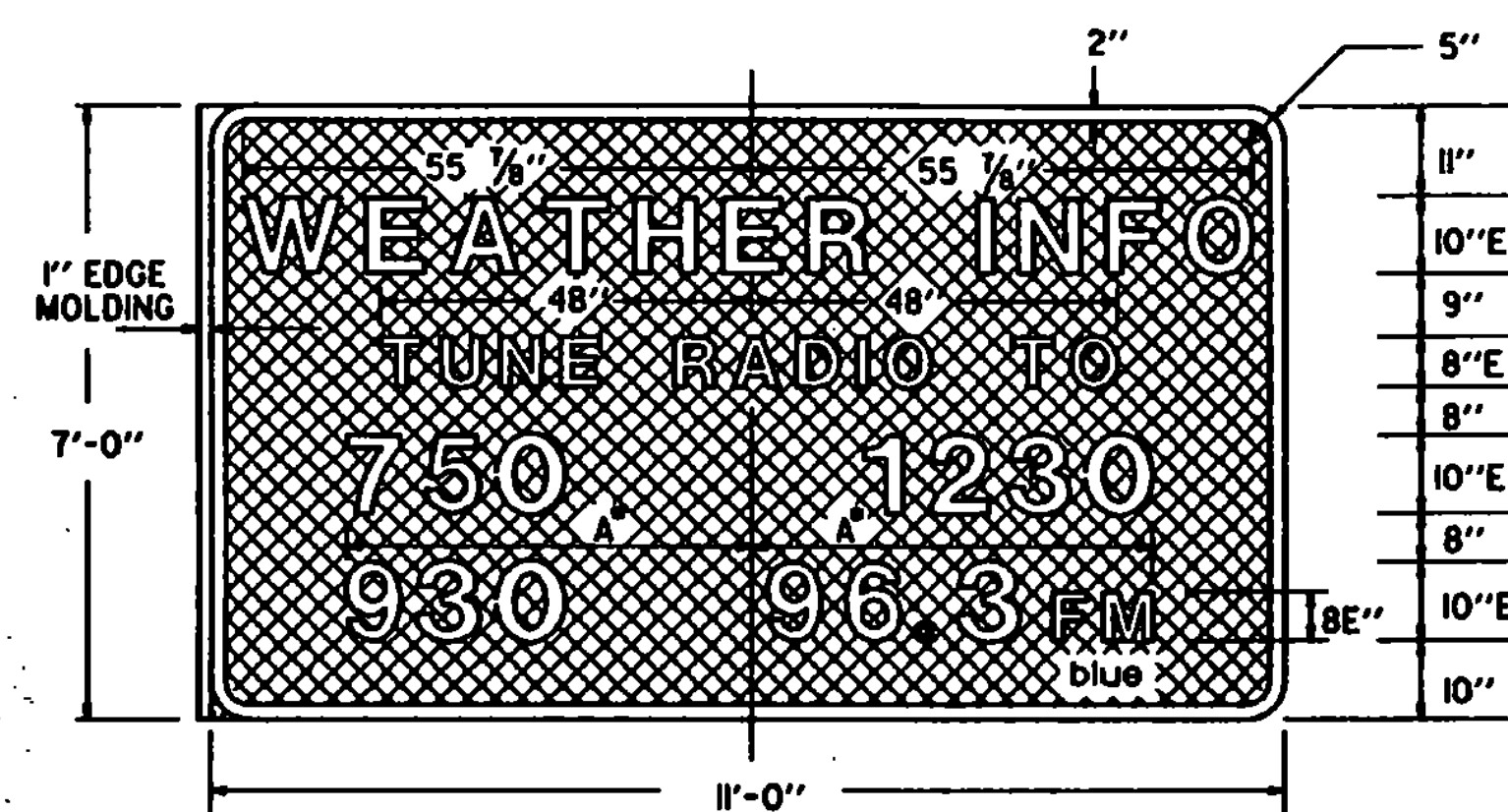
SEPT. 10, 1987
DATE

David B. Kelly
CHIEF ENGINEER
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AND PRE-CONSTRUCTION
Andrew S. MacArthur
TRAFFIC AND SAFETY ENGINEER

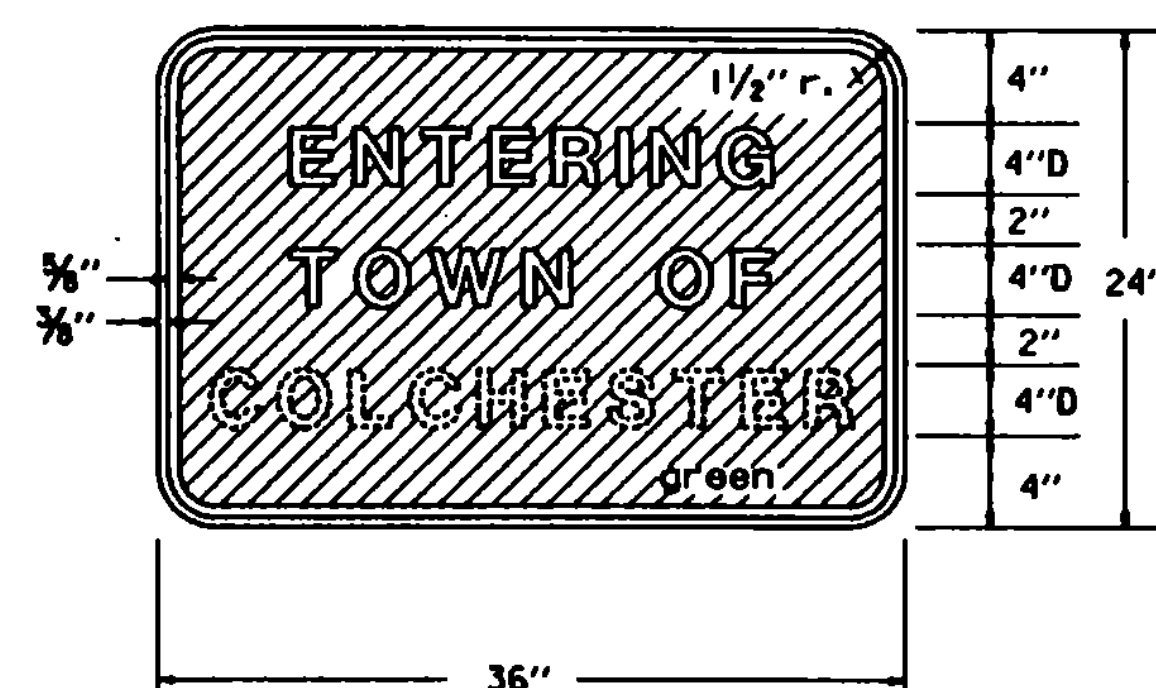
MAJOR MAINTENANCE OPERATION LANE CLOSURE



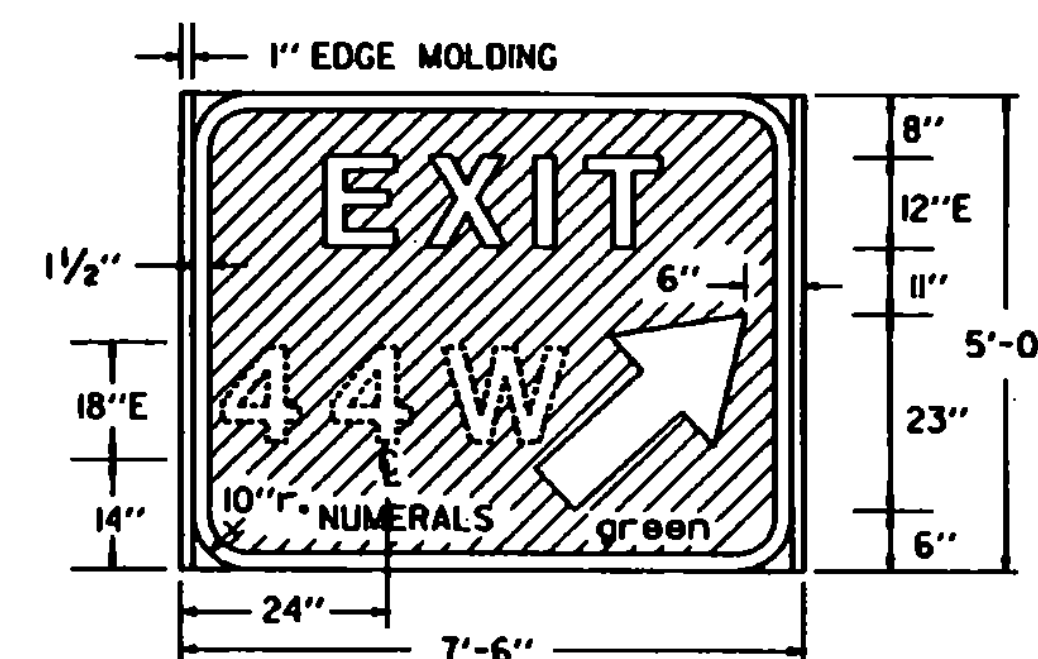
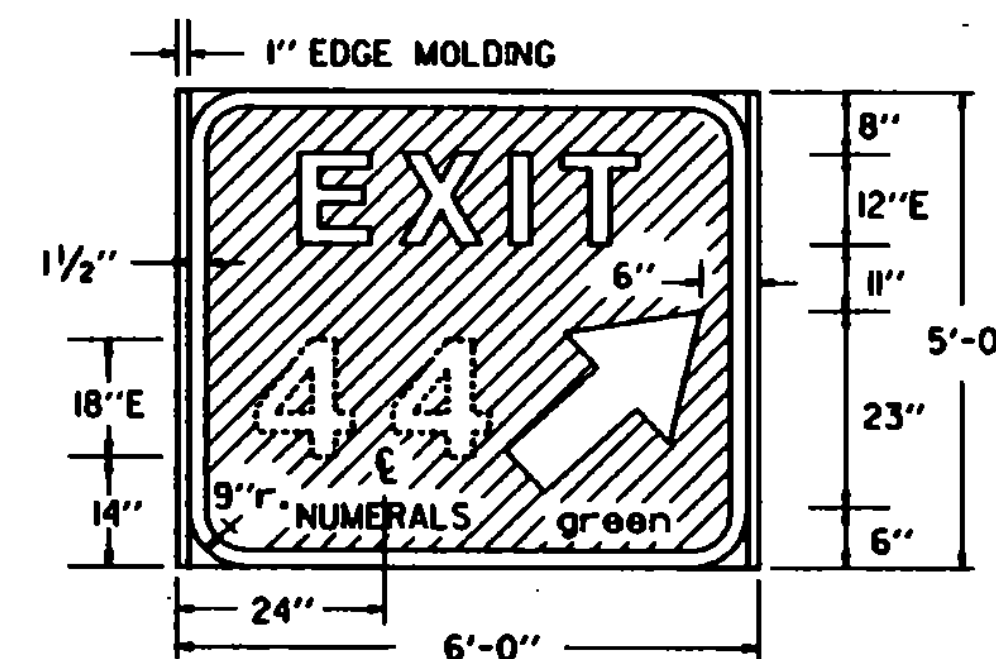
STANDARD
E-110



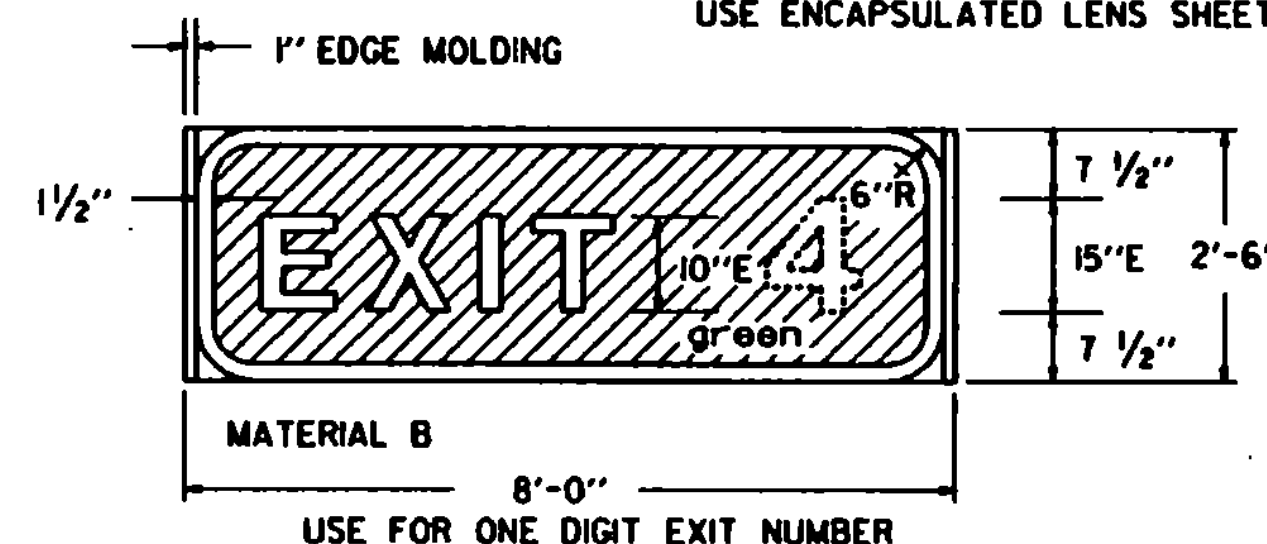
A* OPTICALLY SPACE CHARACTERS ABOUT CENTERLINE. ACTUAL DIMENSIONS VARY.



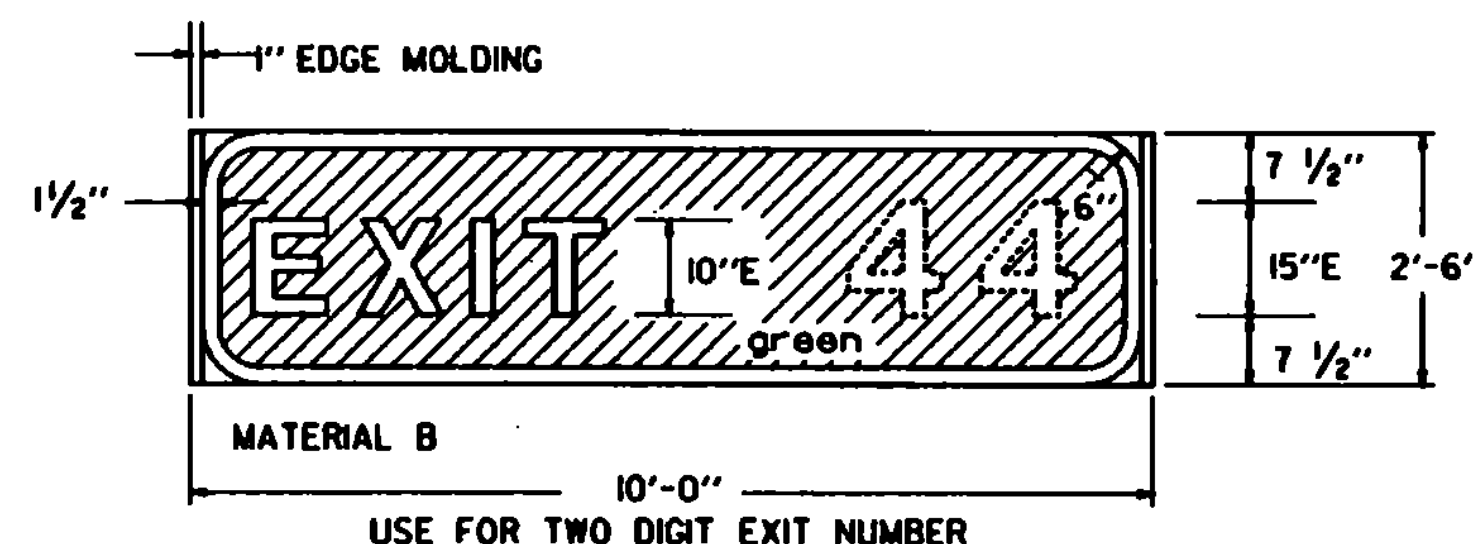
NOTE: DOTTED LINES AND NUMERALS INDICATE TEXT THAT VARIES.



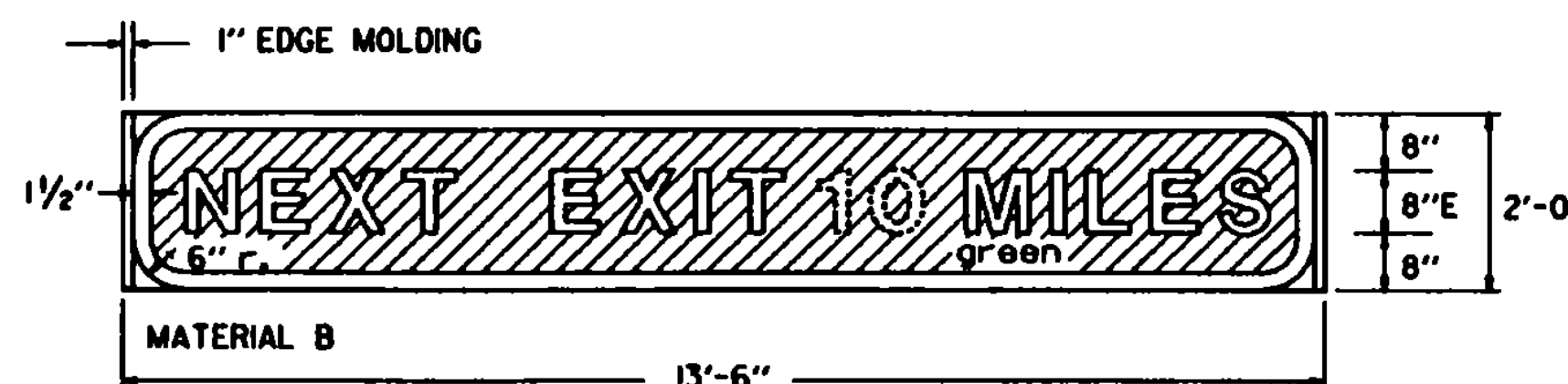
USE ENCAPSULATED LENS SHEETING OR EQUIVALENT



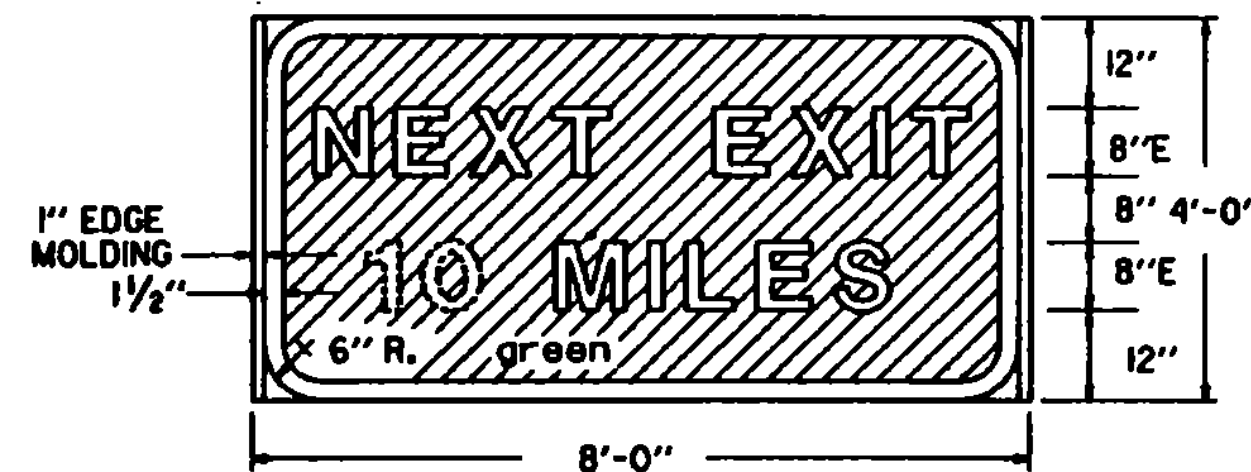
USE FOR ONE DIGIT EXIT NUMBER



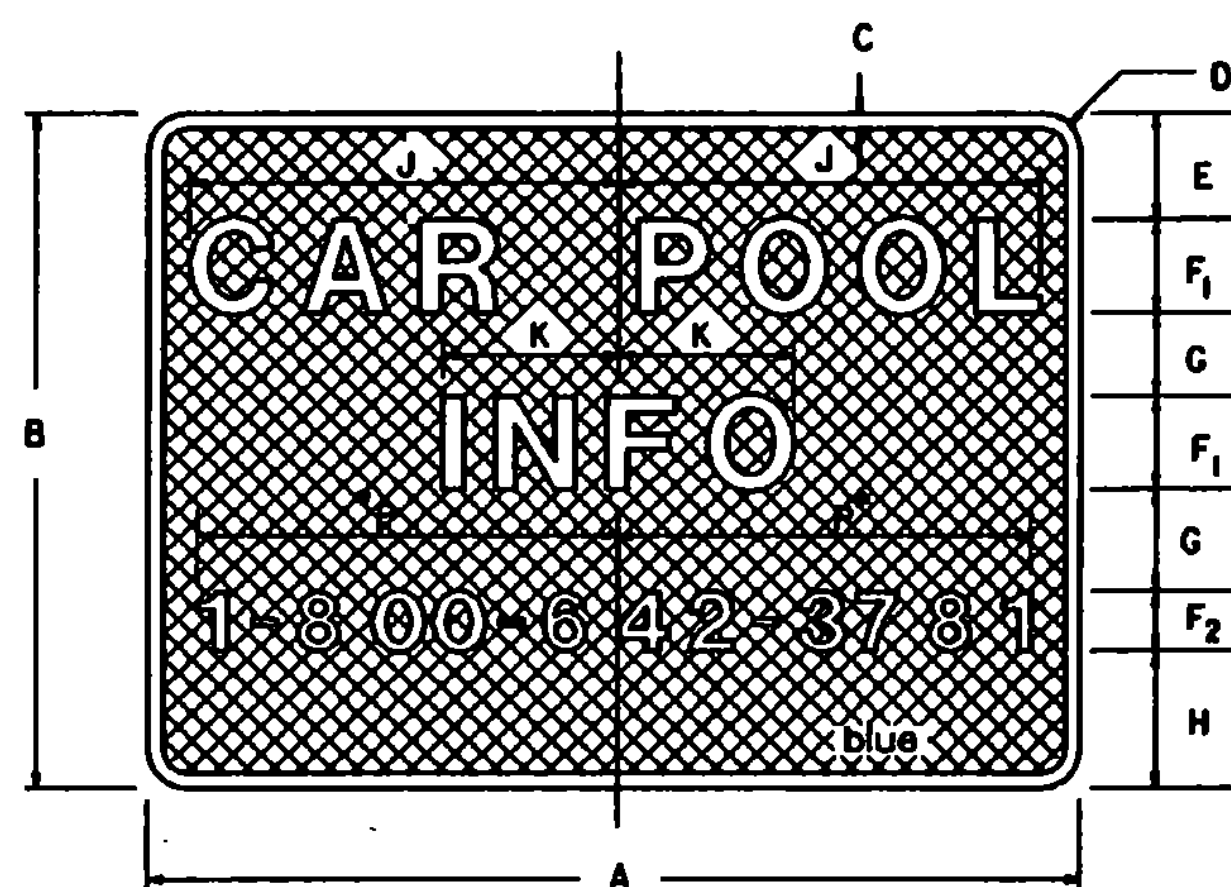
USE FOR TWO DIGIT EXIT NUMBER



USE THIS WHEN PARENT SIGN IS 14' OR MORE (HORIZ.)



USE THIS SIGN WHEN PARENT SIGN IS LESS THAN 14' (HORIZ.)



* REDUCE NUMERAL TO NUMERAL SPACING 20 %. TOTAL DASH SPACE : FWY, 3 1/2 ; STD, 3 1/8.

SIGN	DIMENSIONS (INCHES)														
	A	B	C	D	E	F ₁	F ₂	G	H	J	K	L	M	N	P
STD. AND EXPWY.	54	42	¾	1¼	6	6E	6C	5	8	20%	8%	6¾	1	1/6	24
FWY.	72	54	1¼	1¾	8	8E	8C	6	10	3%	13¼	8½	1½	1½	32

MATERIALS

THE SIGN BASE MATERIAL USED FOR THE GUIDE SIGNS ON THIS SHEET MAY BE ANY OF THE FOLLOWING EXCEPT AS NOTED:

A - HIGH DENSITY OVERLAIN PLYWOOD, 1/4" MINIMUM THICKNESS WITH REFLECTIVE SHEETING. (MAY BE USED FOR TYPE A SIGNS ONLY)

B - EXTRUDED ALUMINUM PANELS, WITH REFLECTIVE SHEETING.

C - FORMED GALVANIZED STEEL PANELS, WITH REFLECTIVE SHEETING.

TEXT AND BORDER

THE MATERIAL FOR THE TEXT AND BORDER AND SYMBOLS OF THESE SIGNS SHALL BE OF FLAT SHEET ALUMINUM 0.040 THICKNESS WITH WHITE OR SILVER ENCAPSULATED SHEETING.

COLORS

THE SIGNS SHALL HAVE A REFLECTORIZED WHITE TEXT ON A REFLECTORIZED GREEN OR BLUE BACKGROUND AS INDICATED FOR EACH SIGN. THE GREEN AND BLUE SHALL CONFORM WITH THOSE FOUND IN STANDARD COLOR TOLERANCE CHARTS AS APPROVED BY THE U.S. DEPT. OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

LETTERING

LETTERS AND DIGITS SHALL CONFORM WITH THE REQUIREMENTS FOUND IN THE PUBLICATION "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" PRINTED BY THE FEDERAL HIGHWAY ADMINISTRATION.

DESIGNS

THE DESIGN OF THESE SIGNS SHALL CONFORM WITH THE DETAILS SET FORTH IN THE MANUAL "STANDARD HIGHWAY SIGNS" AS SPECIFIED IN "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

SPECIFICATIONS

THE SIGNS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR "TRAFFIC SIGNS."

REVISIONS AND CORRECTIONS

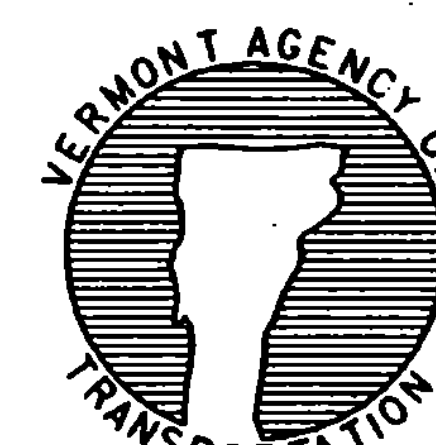
APPROVED

SEPT. 10, 1987

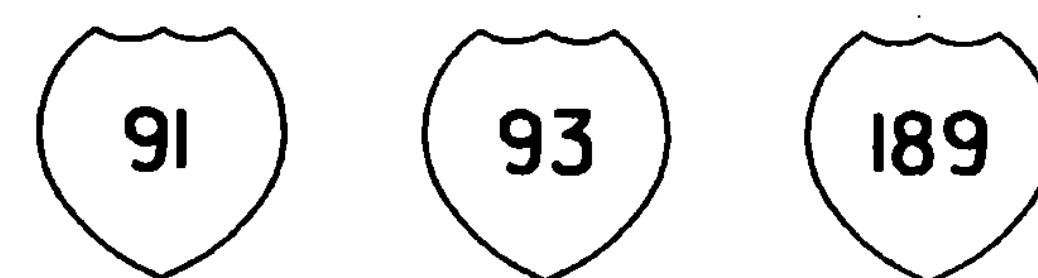
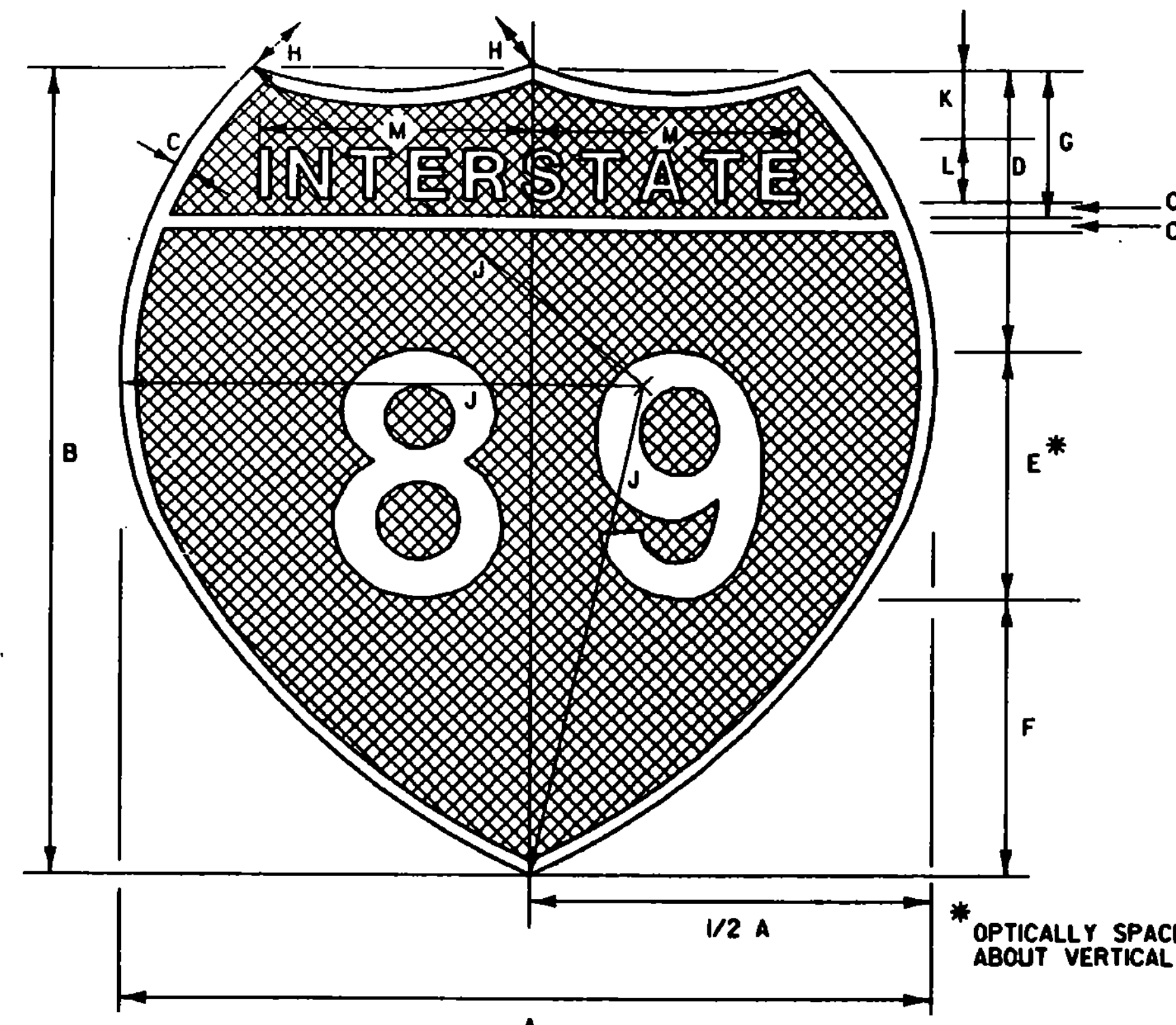
DATE

W. and B. Kelly
CHIEF ENGINEER
Gordon B. MacArthur
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION
TRAFFIC AND SAFETY ENGINEER

GUIDE SIGN DETAILS



STANDARD
E-131



TYPICAL SIGN TEXTS

INTERSTATE SHIELD FOR INDEPENDENT AND GUIDE SIGN USE

SIGN	DIMENSIONS (INCHES)											
	A	B	C	D	E	F	G	H	J	K	L	M
1-2-DIGITS	24	24	1/2	6 1/2	12	5 1/2	5	15	15	2	2 1/2	7 1/2
1-2-DIGITS	36	36	3/4	9 3/4	18	8 1/4	7 1/2	22 1/2	22 1/2	3	3 3/4	11 1/4
1-2-DIGITS	48	48	1	13	24	11	10	30	30	4	5	15 1/2
3-DIGITS	30	24	1/2	6 1/2	12	5 1/2	5	24	17	2	2 1/2	7 1/2
3-DIGITS	45	36	3/4	9 3/4	18	8 1/4	7 1/2	36	25 1/2	3	3 3/4	11 1/4
3-DIGITS	60	48	1	13	24	11	10	48	34	4	5	15 1/2

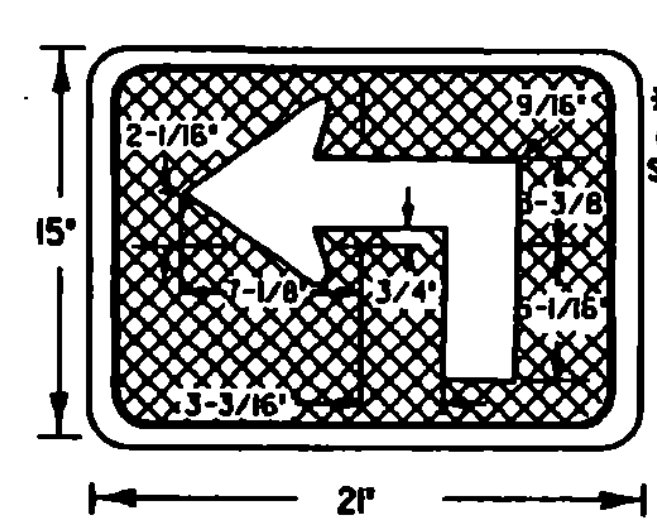
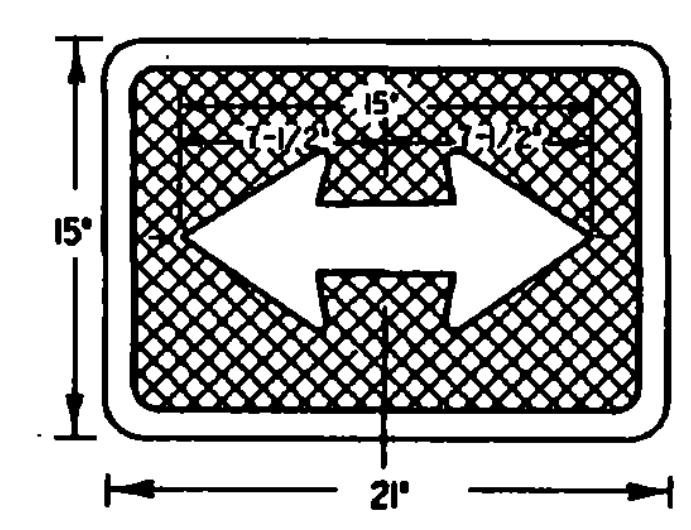
COLORS
 LEGEND
 TOP - WHITE (REFL)
 BOTTOM - RED (REFL)
 - BLUE (REFL)

MATERIALS
 THE SIGN BASE MATERIAL MAY BE ANY OF THE OF THE FOLLOWING, OF THE MINIMUM THICKNESS NOTED:

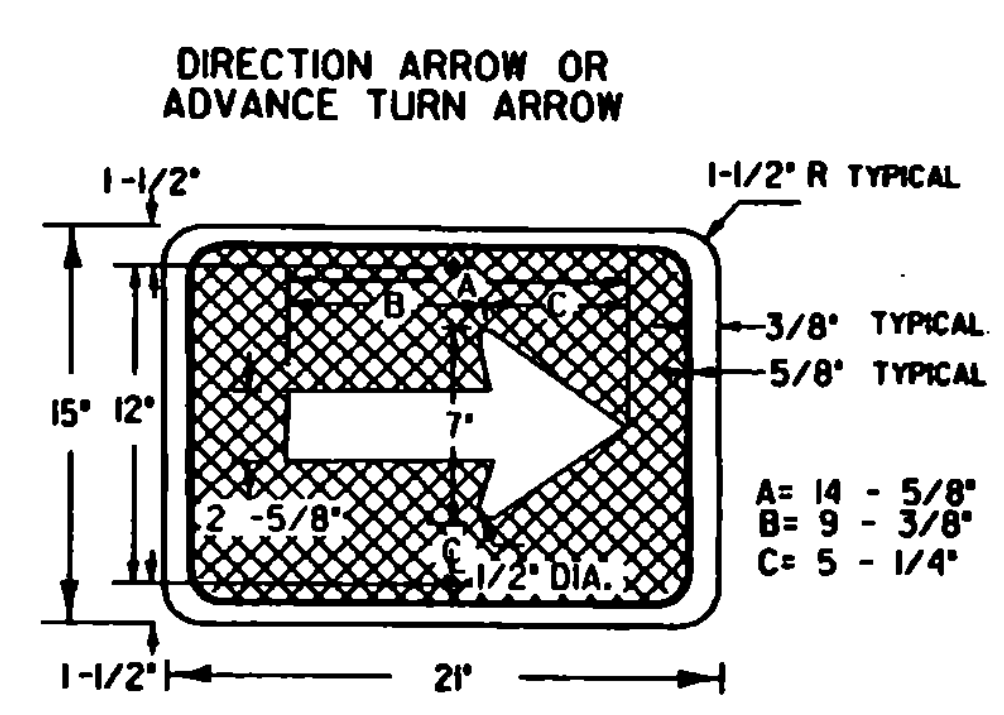
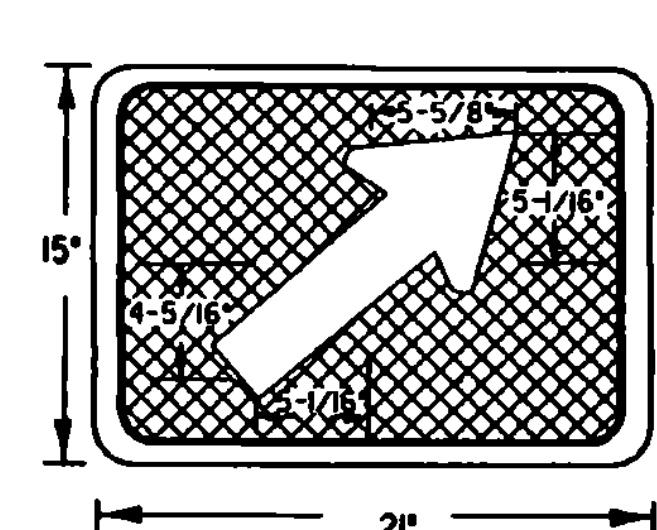
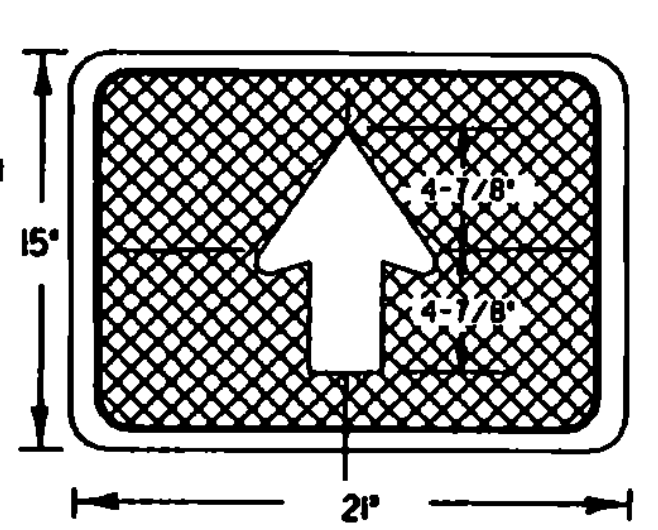
FLAT SHEET ALUMINUM
 24" X 24" 0.080"
 36" X 36" 0.100"
 WHEN USED ON GUIDE SIGNS 0.060"

GALVANIZED FLAT SHEET STEEL
 24" X 24" 16 GAGE
 36" X 36" 14 GAGE

THE REFLECTIVE MATERIAL SHALL BE ENCAPSULATED LENS SILVER REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE MARKER. THE TEXTS OF THE INTERSTATE ROUTE MARKERS, AND OF THE AUXILIARY MARKERS EXCEPT TRAILBLAZER AUXILIARIES, SHALL BE REVERSE SCREENED.



* OTHER DIMENSIONS SEE ADVANCE TURN ARROW.



COLORS

THE OFFICIAL INTERSTATE ROUTE MARKER SHALL HAVE A REFLECTORIZED WHITE OR SILVER TEXT AND BORDER ON A REFLECTORIZED RED AND BLUE BACKGROUND. AUXILIARY MARKERS USED WITH INTERSTATE ROUTE MARKERS SHALL HAVE A REFLECTORIZED WHITE AND SILVER TEXT AND BORDER ON A REFLECTORIZED BLUE BACKGROUND.

THE RED AND BLUE 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 ADMINISTRATION.

LETTERING

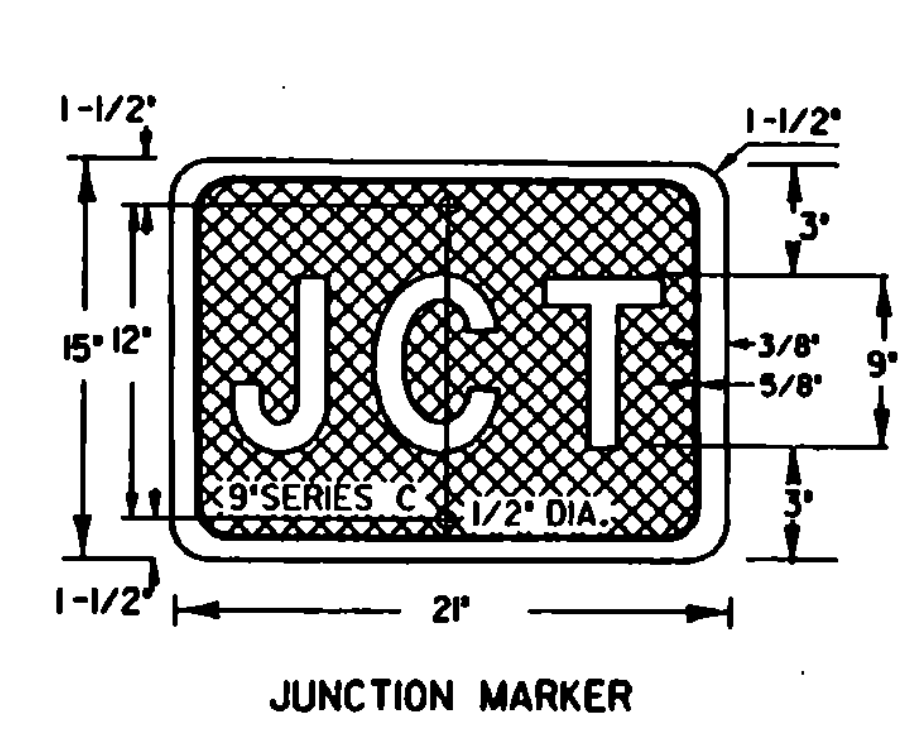
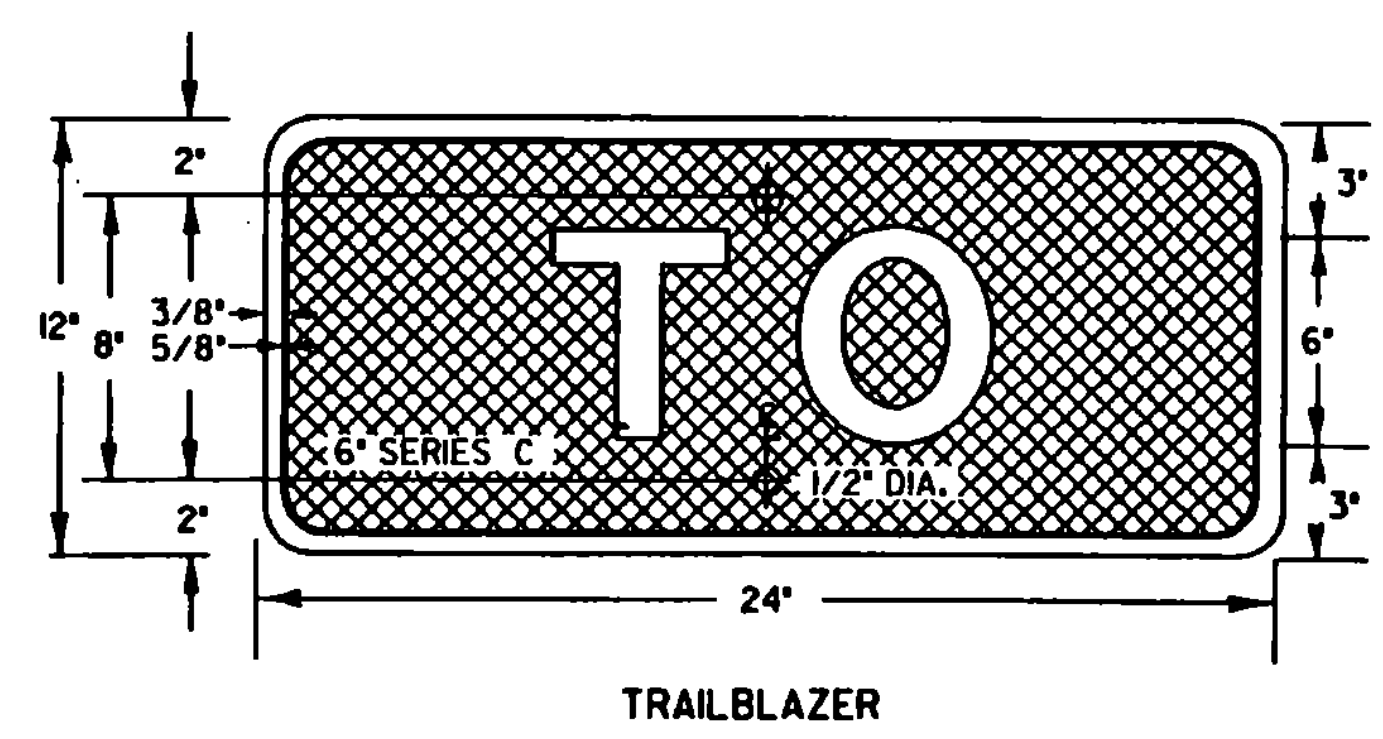
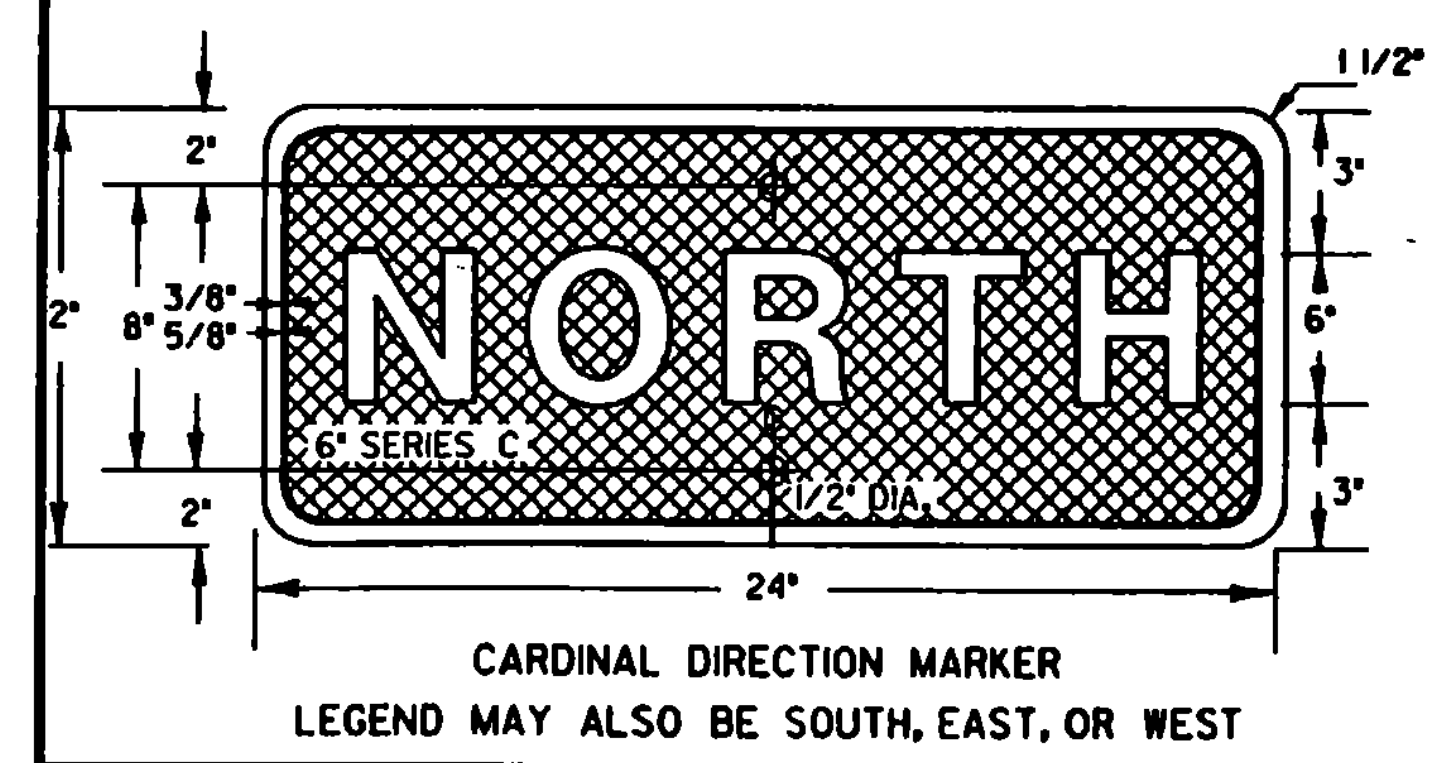
LETTERS AND DIGITS SHALL CONFORM WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS" APPROVED BY THE NATIONAL JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS

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

DESIGNS

THE DESIGNS OF INTERSTATE ROUTE MARKERS AND AUXILIARY MARKERS SHALL CONFORM WITH THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS.

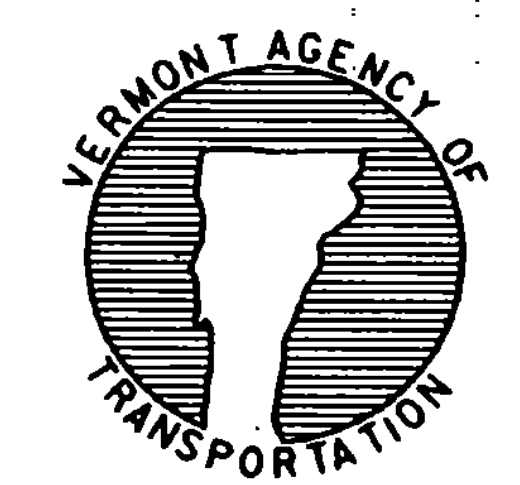


REVISIONS AND CORRECTIONS

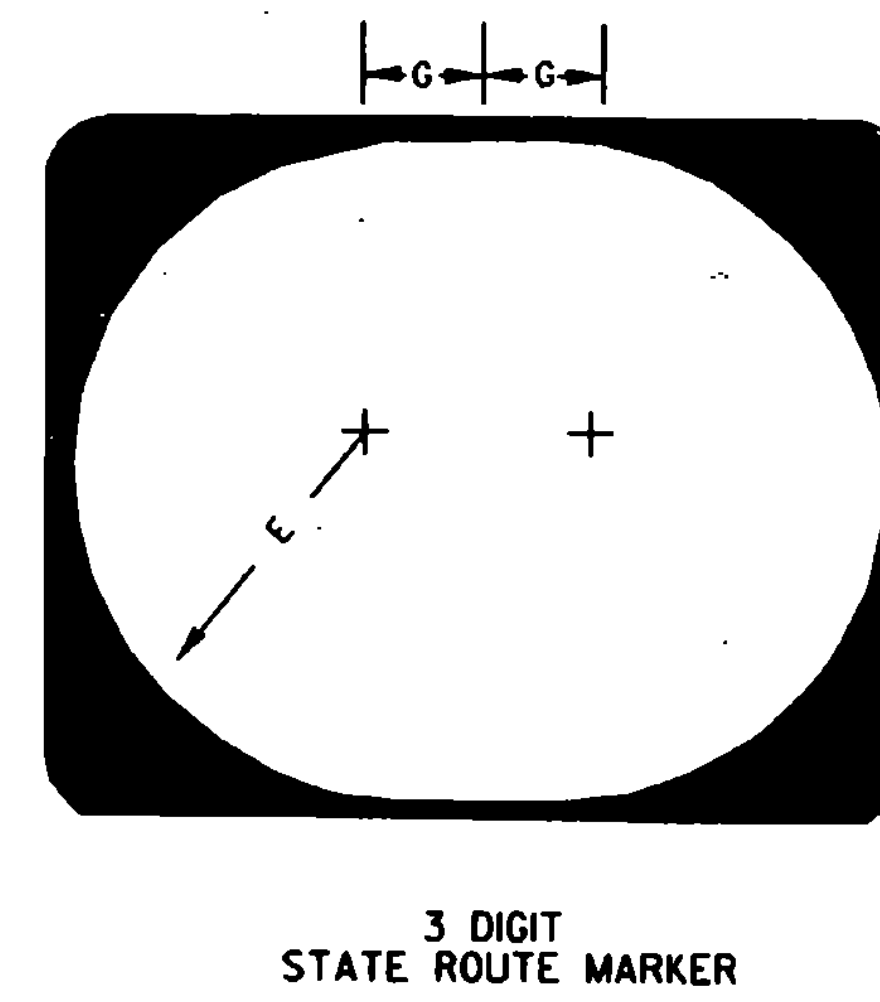
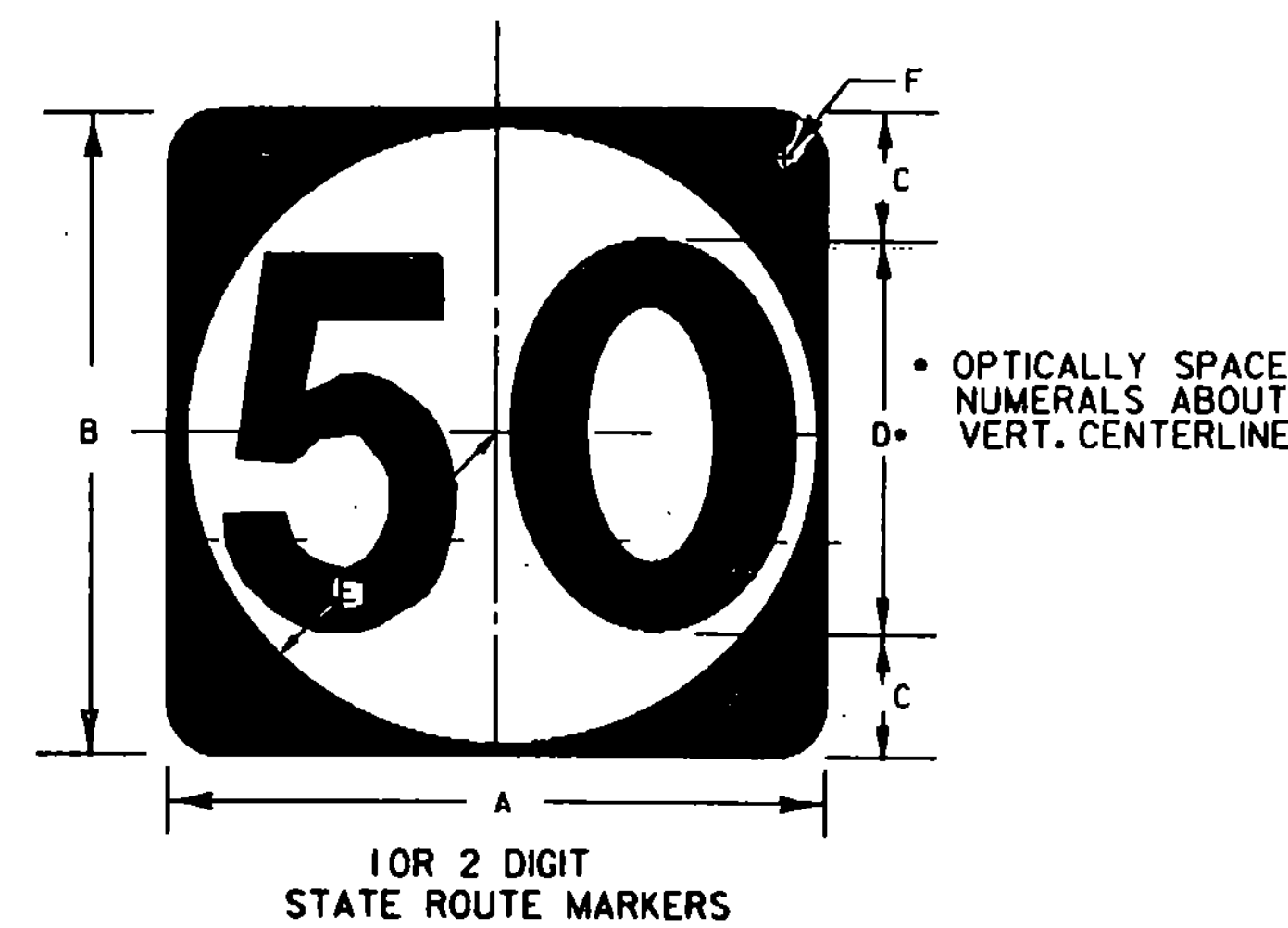
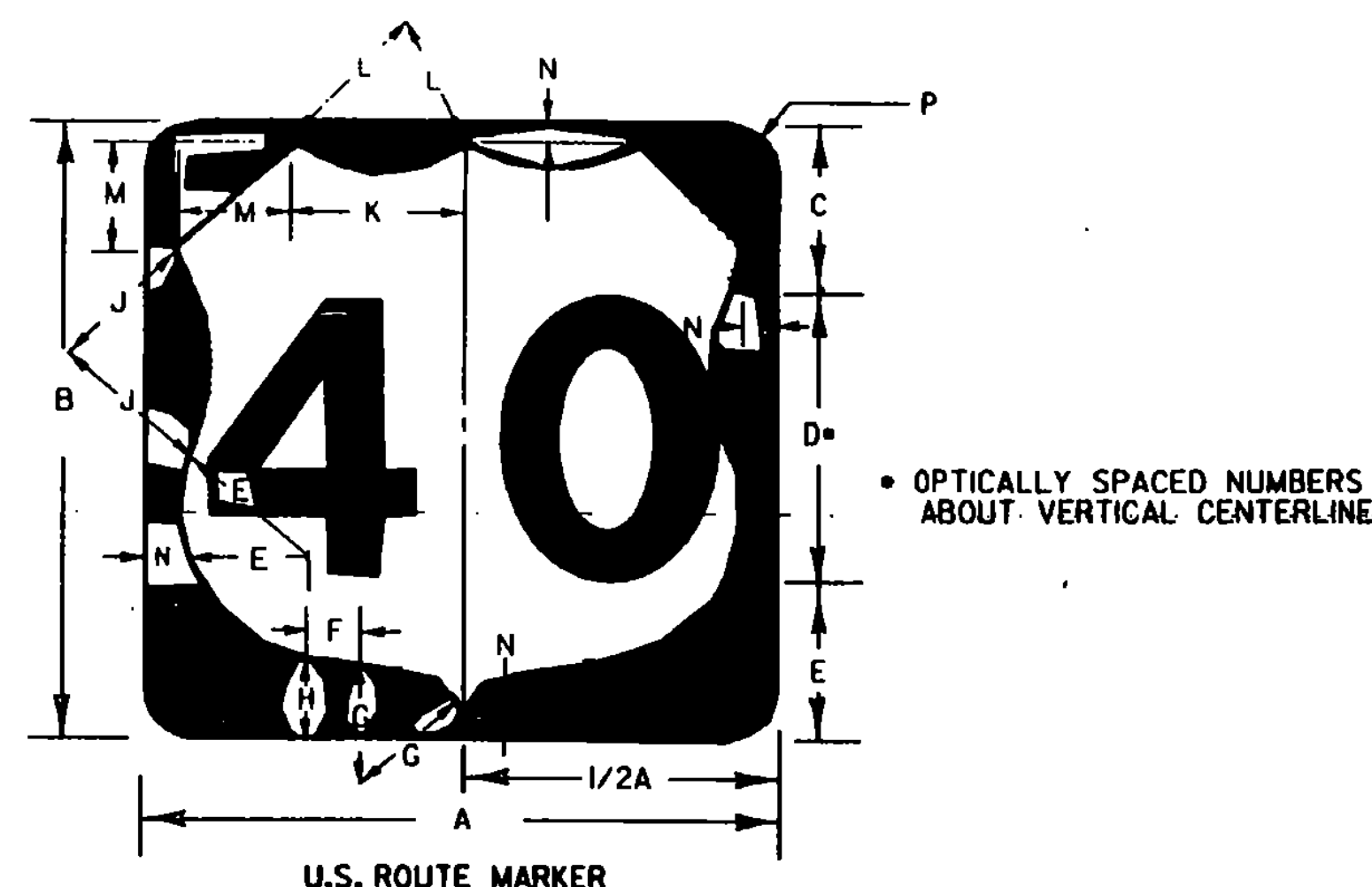
APPROVED

SEPT. 10, 1987
 DATE
David E. Kelly
 CHIEF ENGINEER
Arthur J. ...
 DIRECTOR OF PLANNING
 AND PRE-CONSTRUCTION
James D. MacArthur
 TRAFFIC AND SAFETY ENGINEER

INTERSTATE ROUTE MARKER SIGN DETAILS



STANDARD
 E-135



SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
1,2-digits	24	24	5-1/2	120	6-1/2	1	5-1/2	2-1/2	7-1/2	7	5-1/2	4-1/2	1/2	1-1/2
1,2-digits	36	36	8-1/4	180	9-3/4	1-1/2	8-1/4	3-3/4	11-1/4	10-1/2	8-1/4	6-1/2	3/4	2-1/4
3-digits	30	24	5-1/2	120	6-1/2	4	5-1/2	2-1/2	7-1/2	10	9-1/2	4-1/2	1/2	1-1/2
3-digits	45	36	8-1/4	180	9-3/4	5-1/2	8-1/4	3-3/4	11-1/4	15	14-1/4	6-1/2	3/4	2-1/4

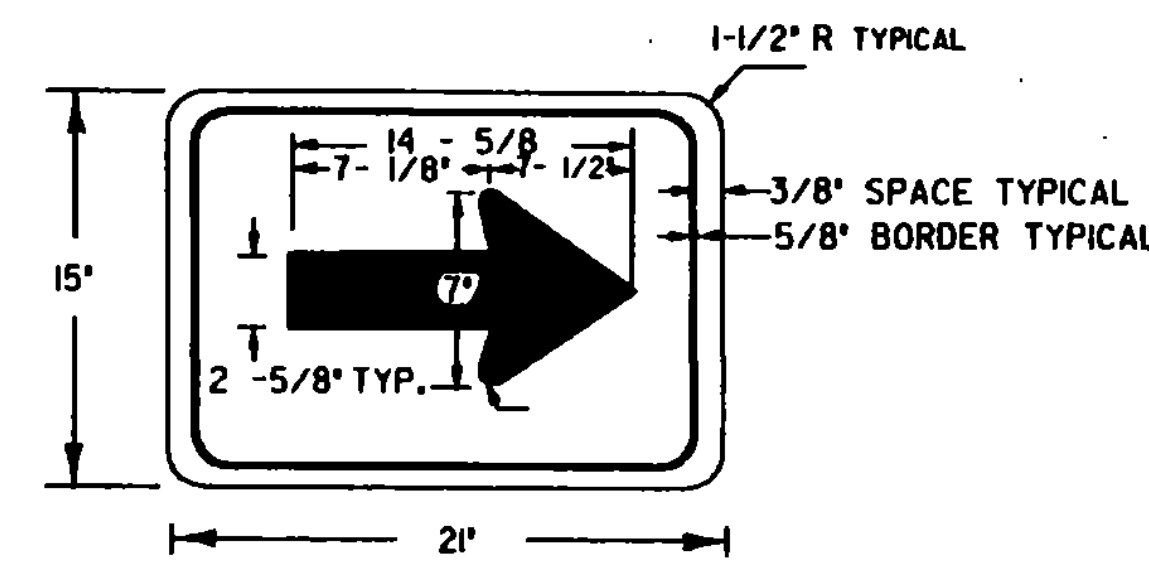
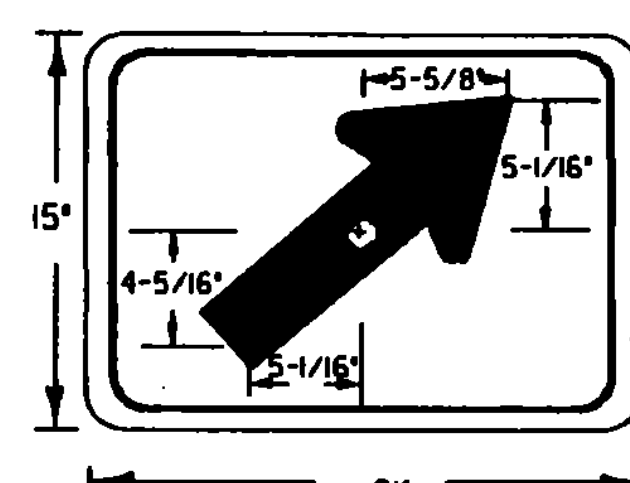
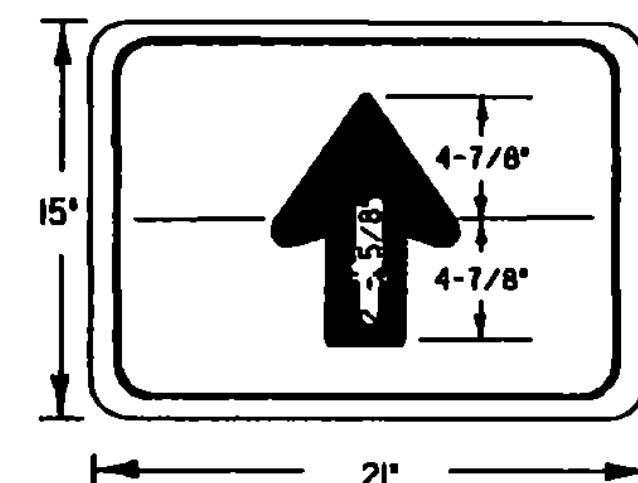
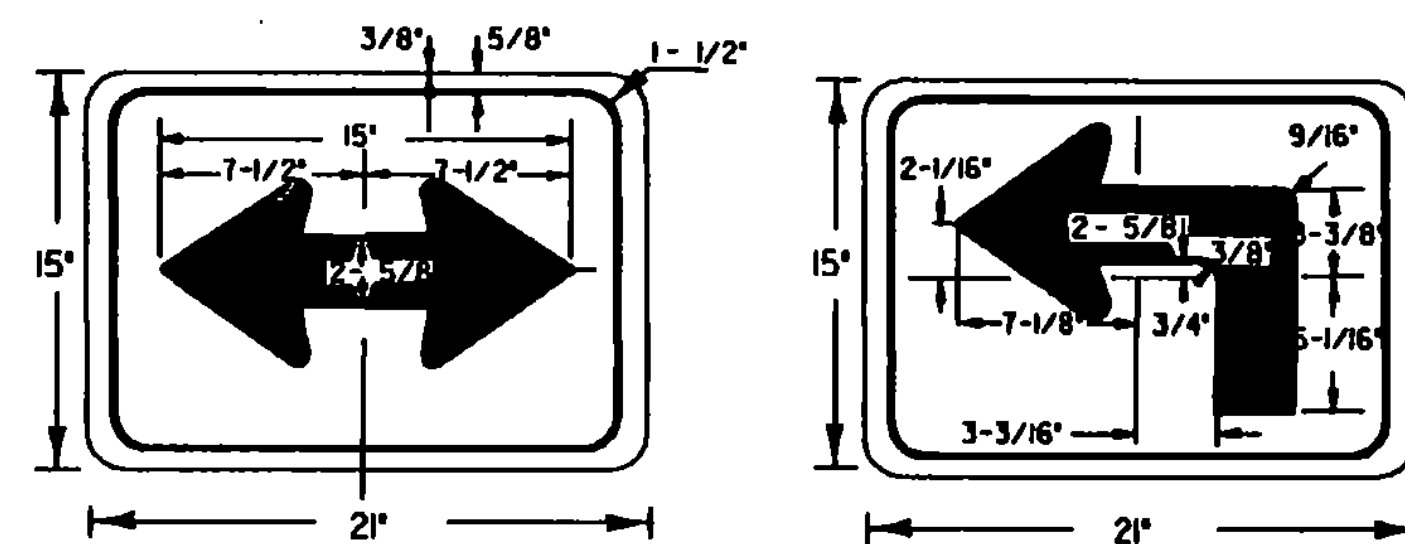
COLORS

SHIELD - WHITE (REFL.)
BACKGROUND AND NUMERALS - BLACK (NON-REFL.)

SIGN	DIMENSIONS (INCHES)						
	A	B	C	D	E	F	G
1,2-DIGIT(S)	24	24	6	120	11	1-1/2	-
1,2-DIGIT(S)	36	36	9	180	16-1/2	2-1/4	-
3-DIGITS	30	24	6	120	11	1-1/2	3
3-DIGITS	45	36	9	180	16-1/2	2-1/4	4-1/2

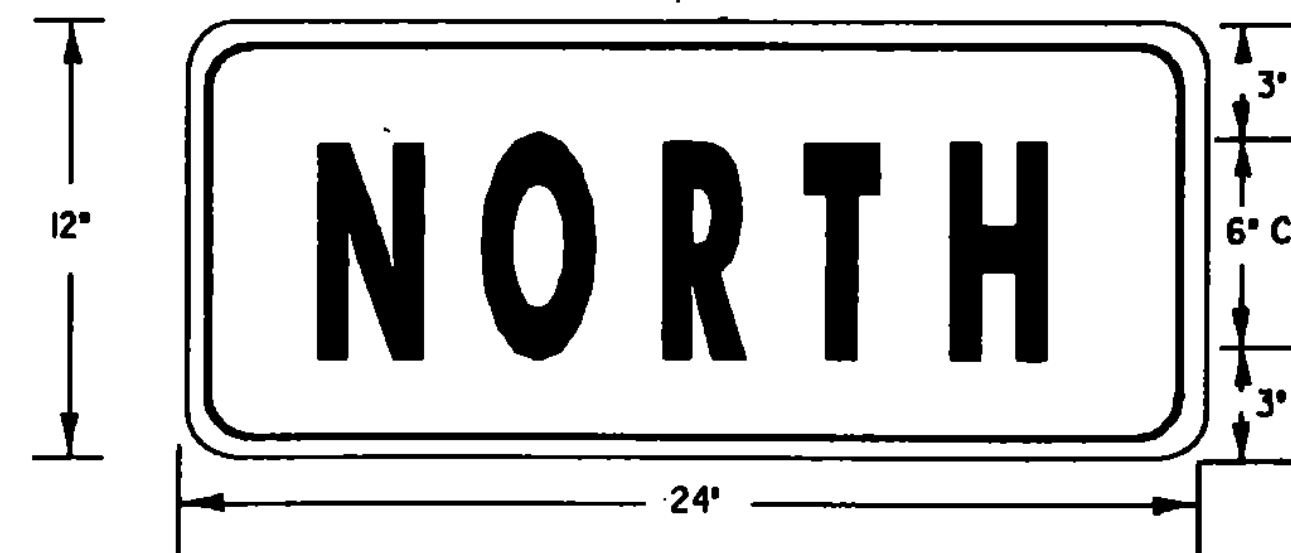
COLORS

LEGEND -BLACK (NON. REFL.)
BACKGROUND - WHITE (REFL.)

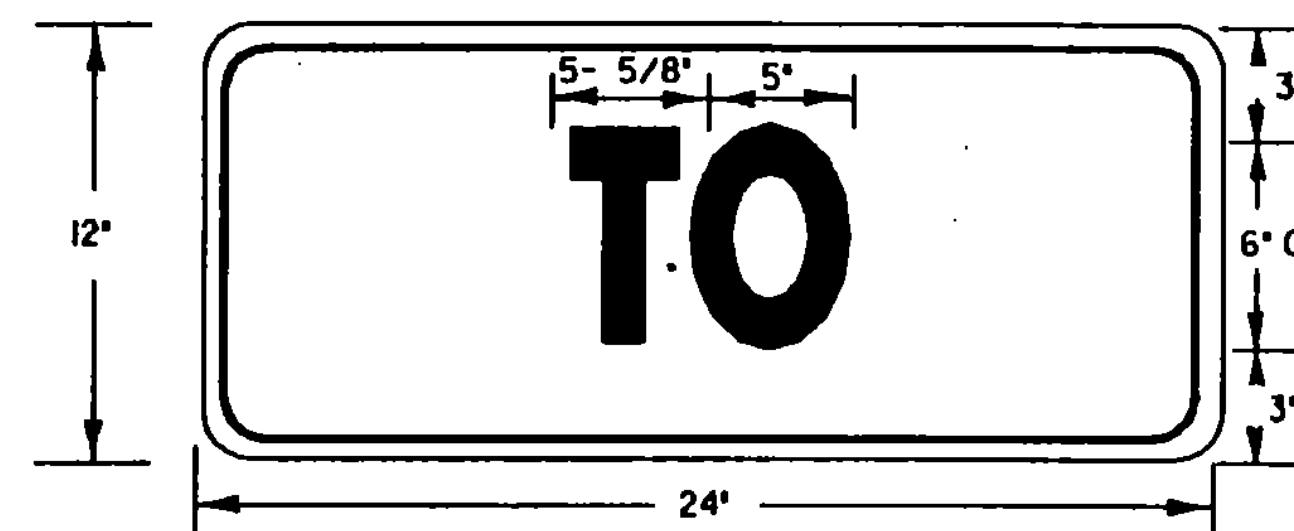


DIRECTION ARROW OR ADVANCE TURN ARROW

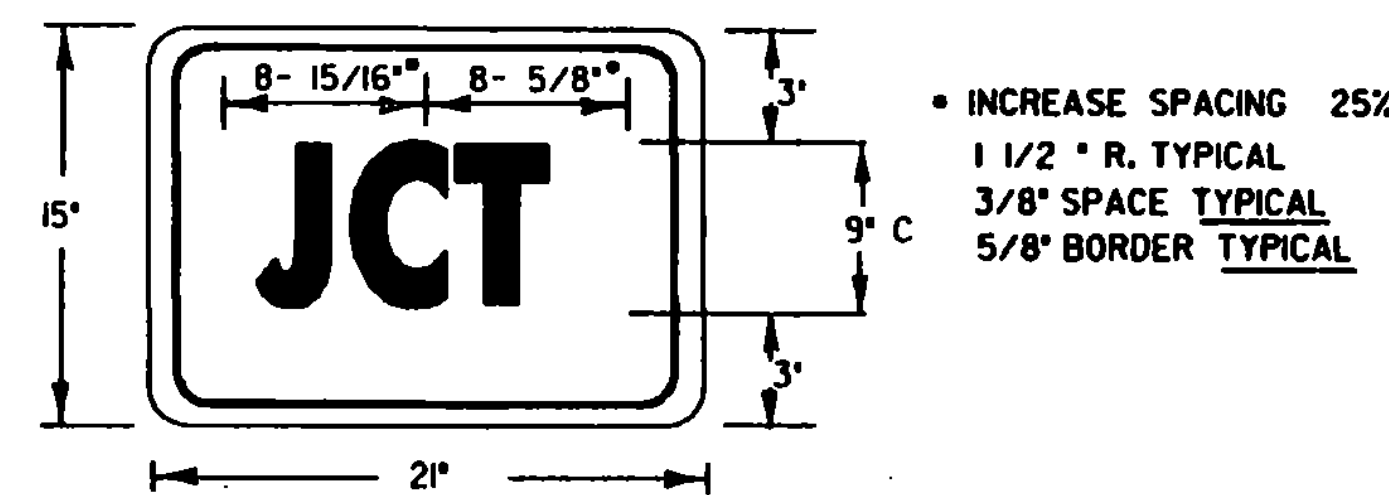
ALSO "SOUTH," "EAST," AND "WEST"



CARDINAL DIRECTION MARKER



TRAILBLAZER



JUNCTION MARKER

REVISIONS AND CORRECTIONS

APPROVED

SEPT. 10, 1987
DATE
David B. Kelley
CHIEF ENGINEER
Arthur J. Ross
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION
Gordon S. MacArthur
TRAFFIC AND SAFETY ENGINEER

U.S. AND STATE ROUTE MARKER SIGN DETAILS

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" PREPARED BY THE NATIONAL JOINT COMMITTEE ON "TRAFFIC CONTROL DEVICES."

MATERIALS

THE SIGN BASE MATERIAL MAY BE ANY OF THE OF THE FOLLOWING, OF THE MINIMUM THICKNESS NOTED:

FLAT SHEET ALUMINUM

LESS THAN 24" X 24"	0.060"
24" X 24", 24" X 30"	0.080"

GALVANIZED FLAT SHEET STEEL

LESS THAN 24" X 24"	18 GAGE
24" X 24", 24" X 30"	16 GAGE

U.S. AND STATE ROUTE MARKERS TO BE MOUNTED ON INTERSTATE GUIDE SIGNS, SHALL BE OF A THICKNESS AS FOR SIGNS LESS THAN 24" X 24"

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

COLORS

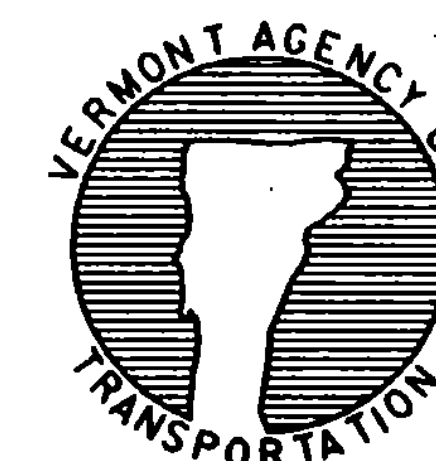
U.S. AND STATE ROUTE MARKERS SHALL HAVE BLACK TEXTS ON REFLECTORIZED WHITE OR SILVER BACKGROUNDS.

LETTERING

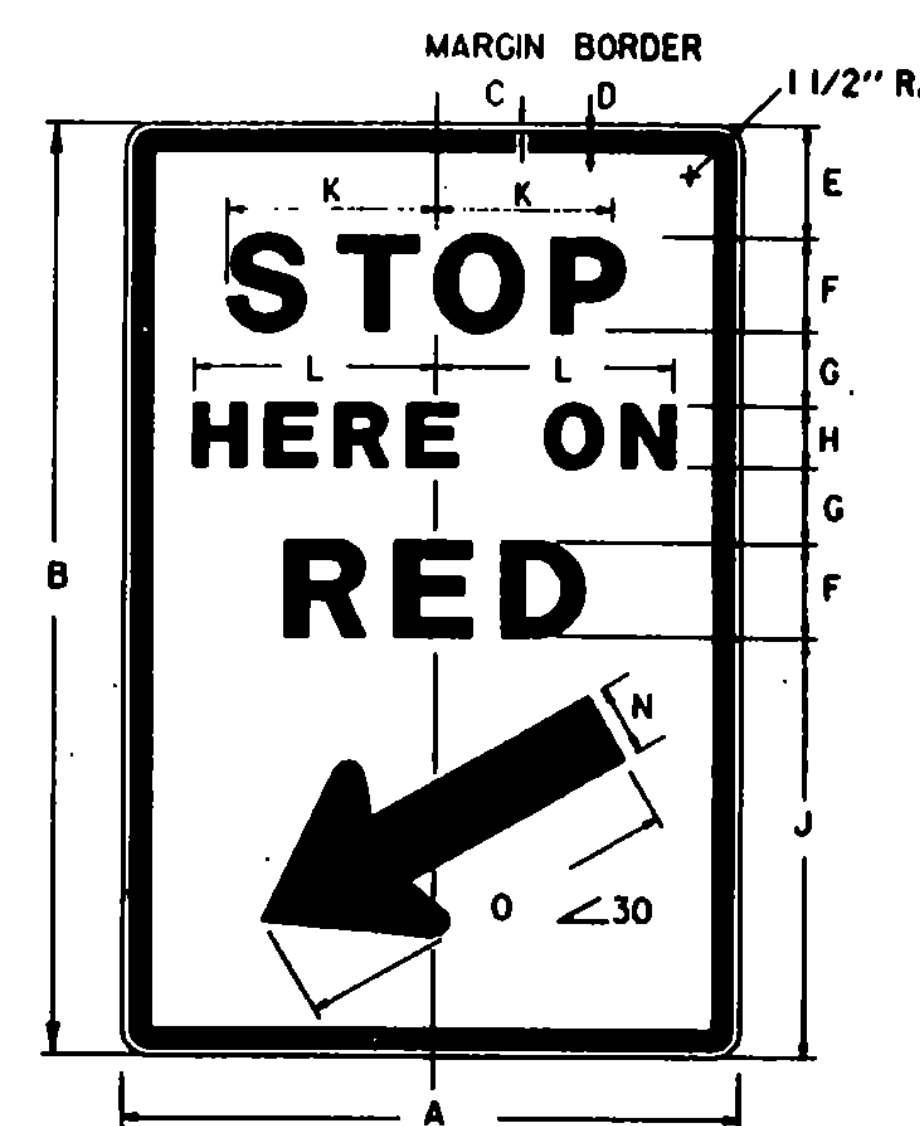
LETTERS AND DIGITS SHALL CONFORM WITH THE STANDARD ALPHABETS FOR HIGHWAY SIGNS APPROVED BY THE NATIONAL JOINT COMMITTEE ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS

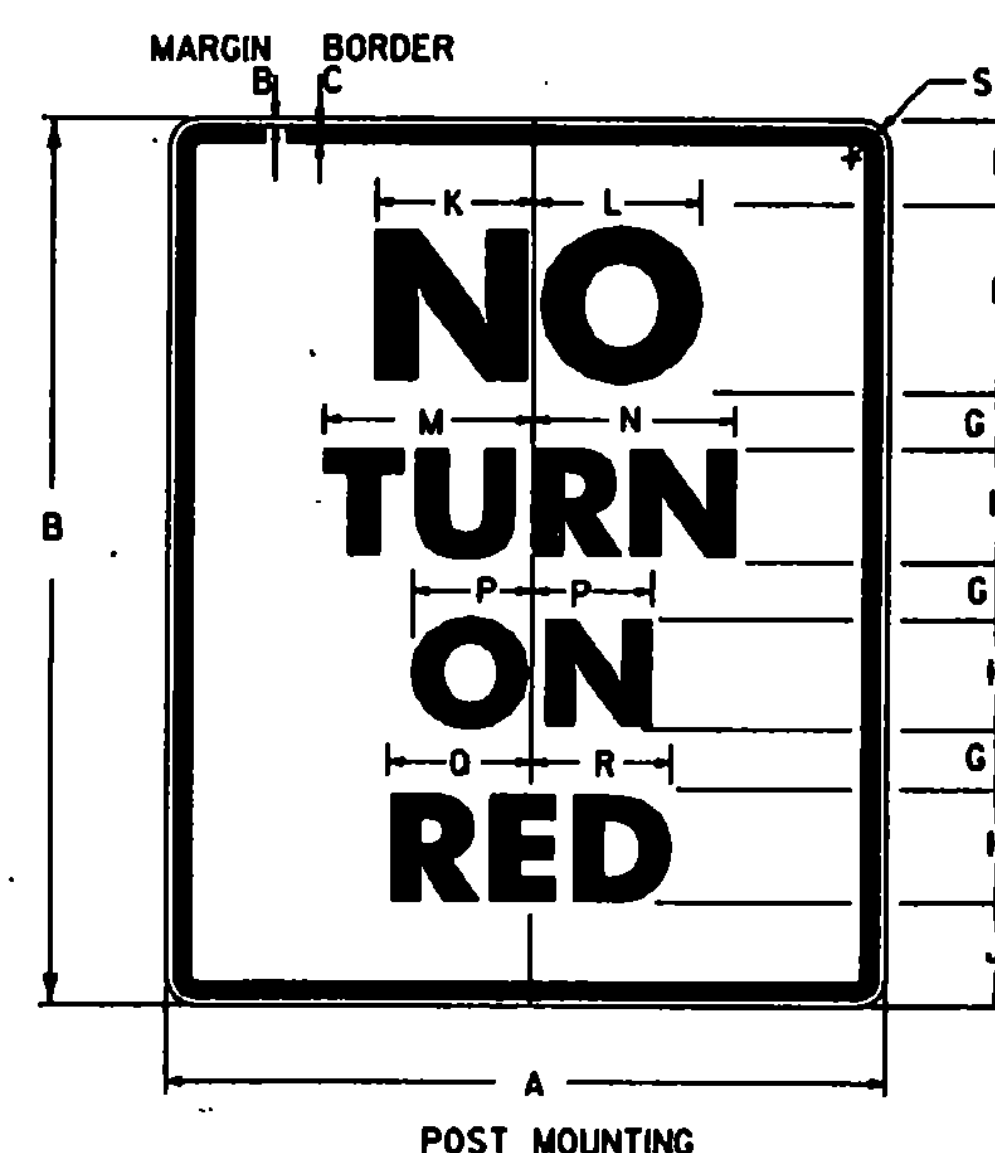
U.S. AND STATE ROUTE MARKERS AND AUXILIARY ROUTE MARKERS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR "TRAFFIC SIGNS".



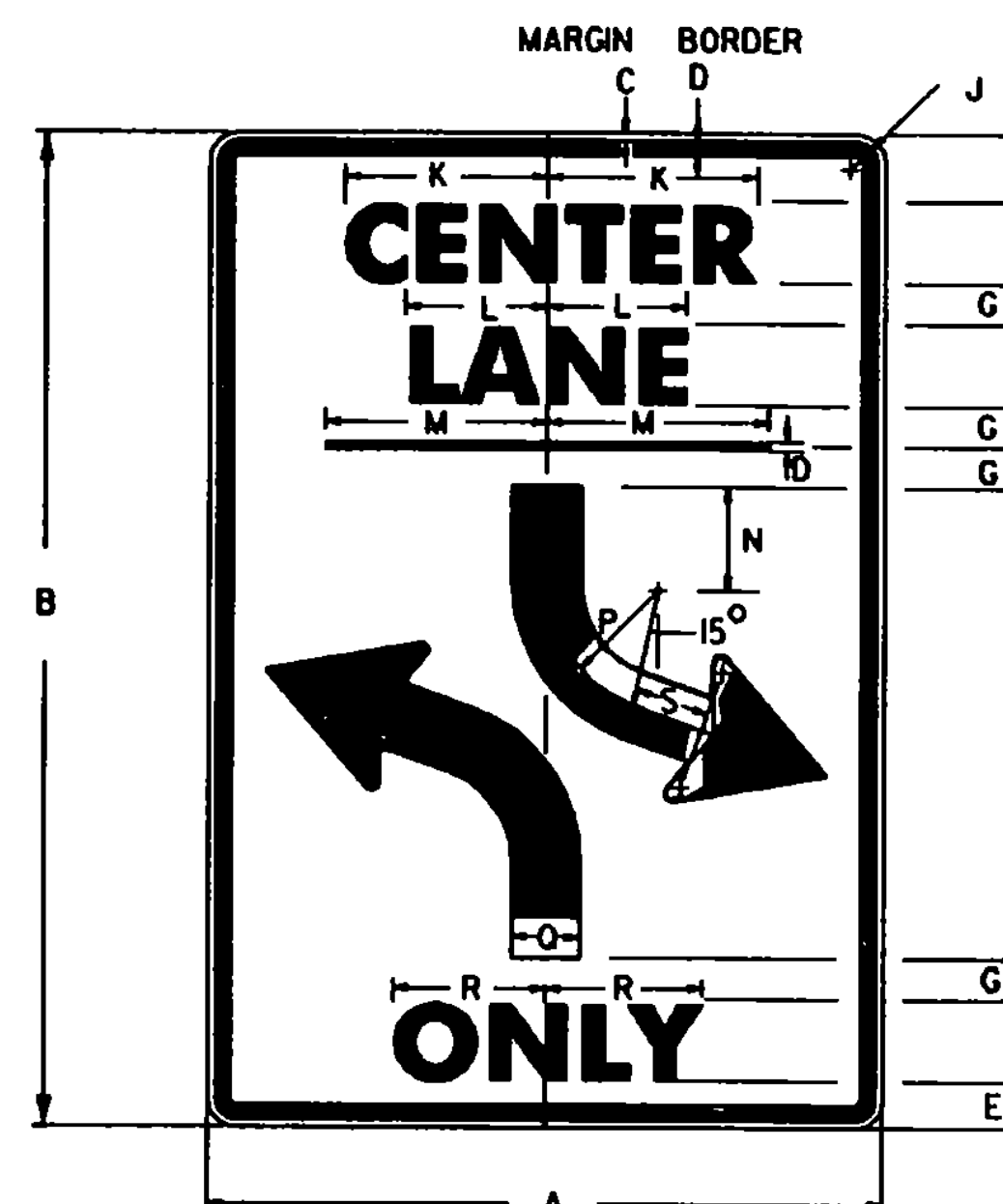
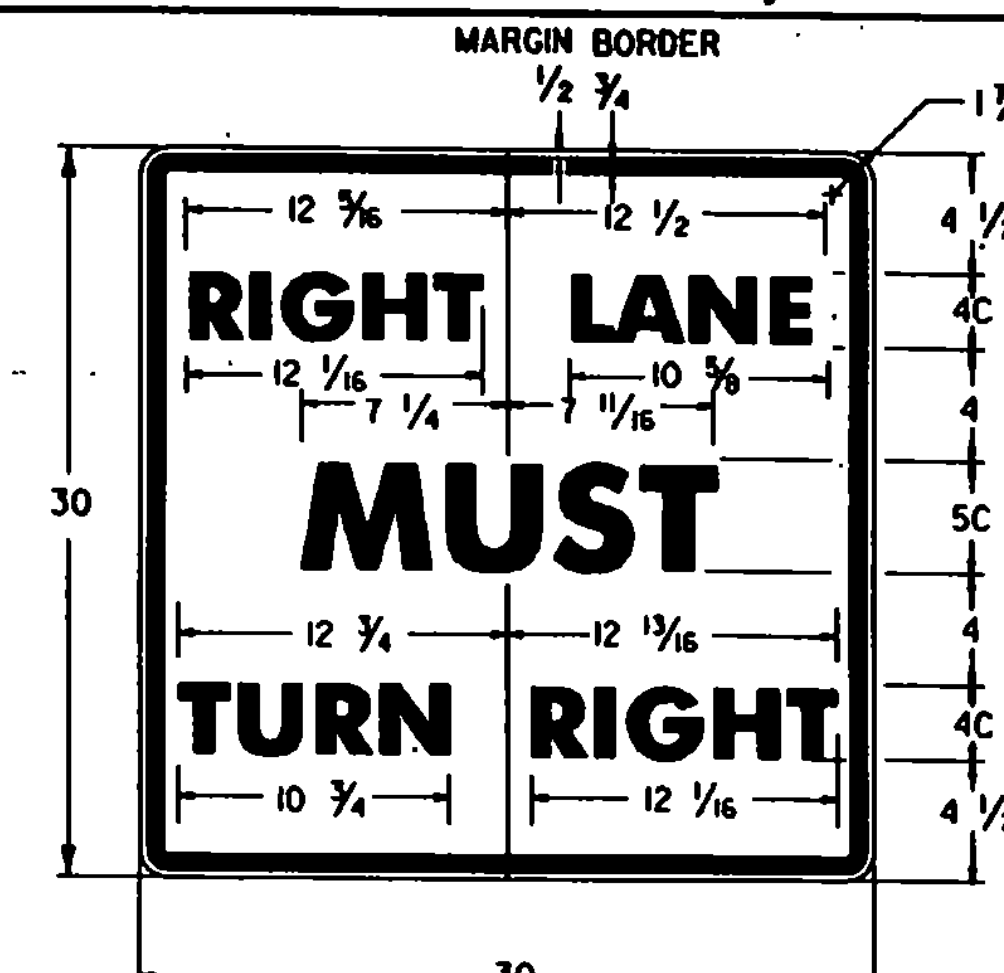
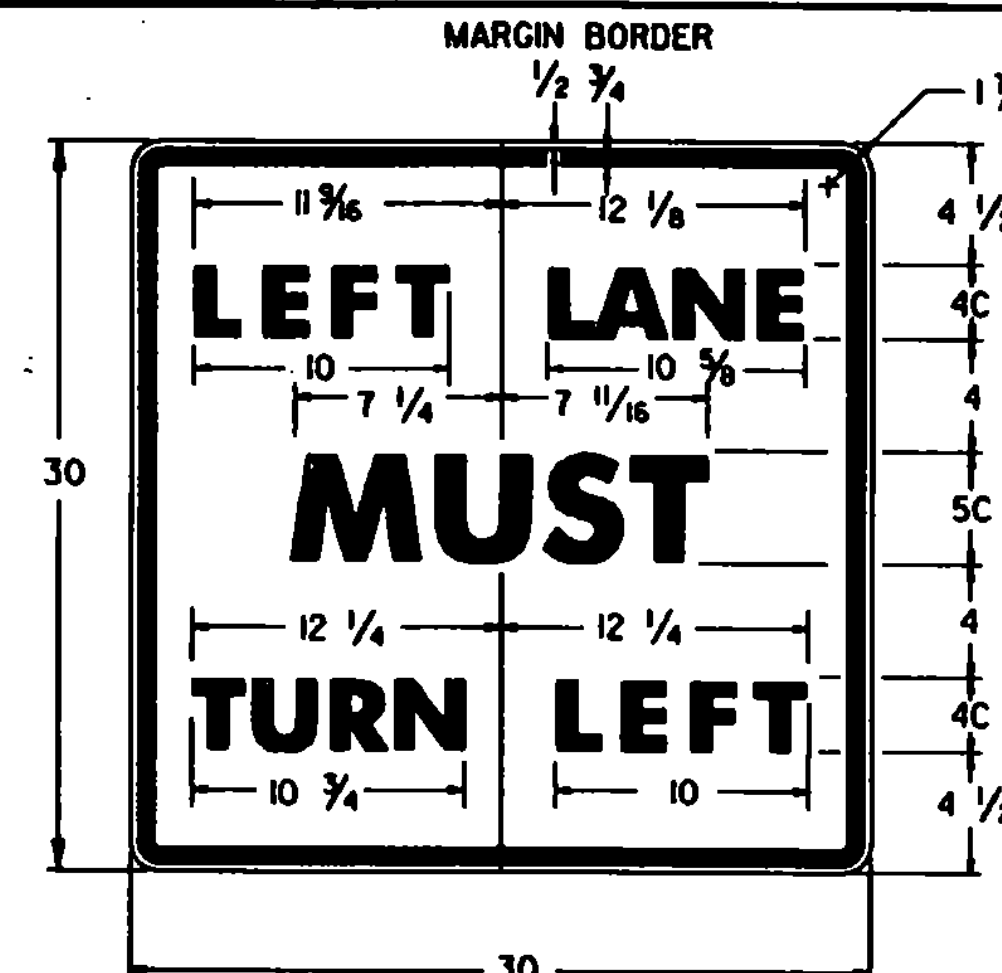
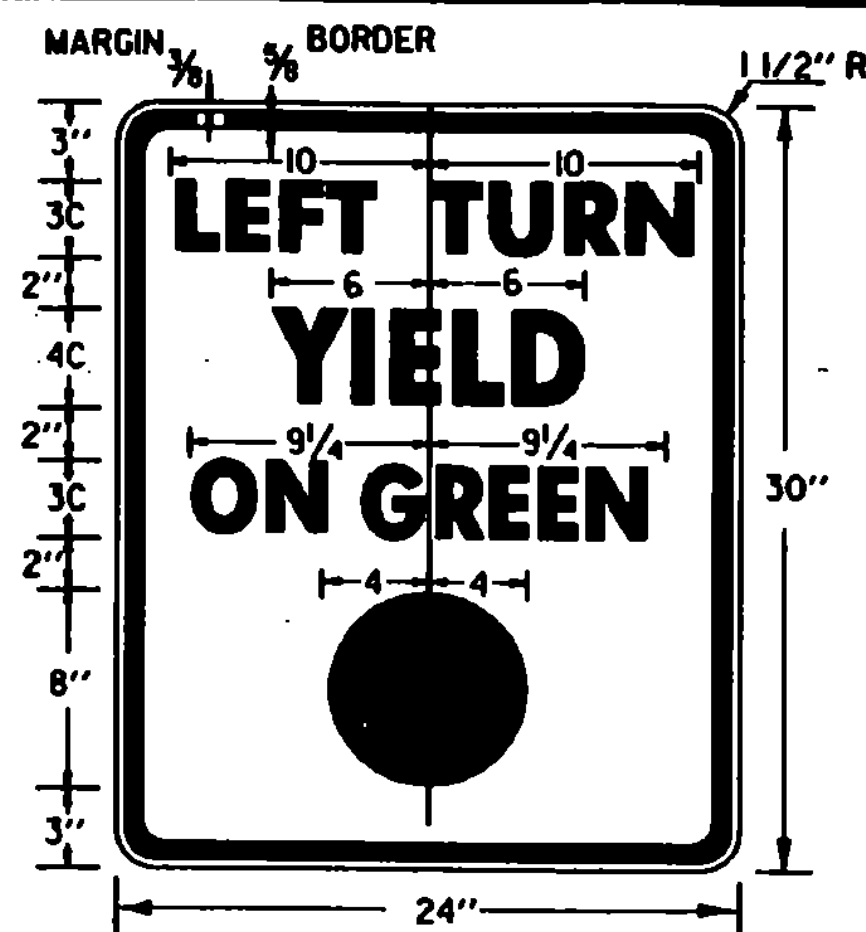
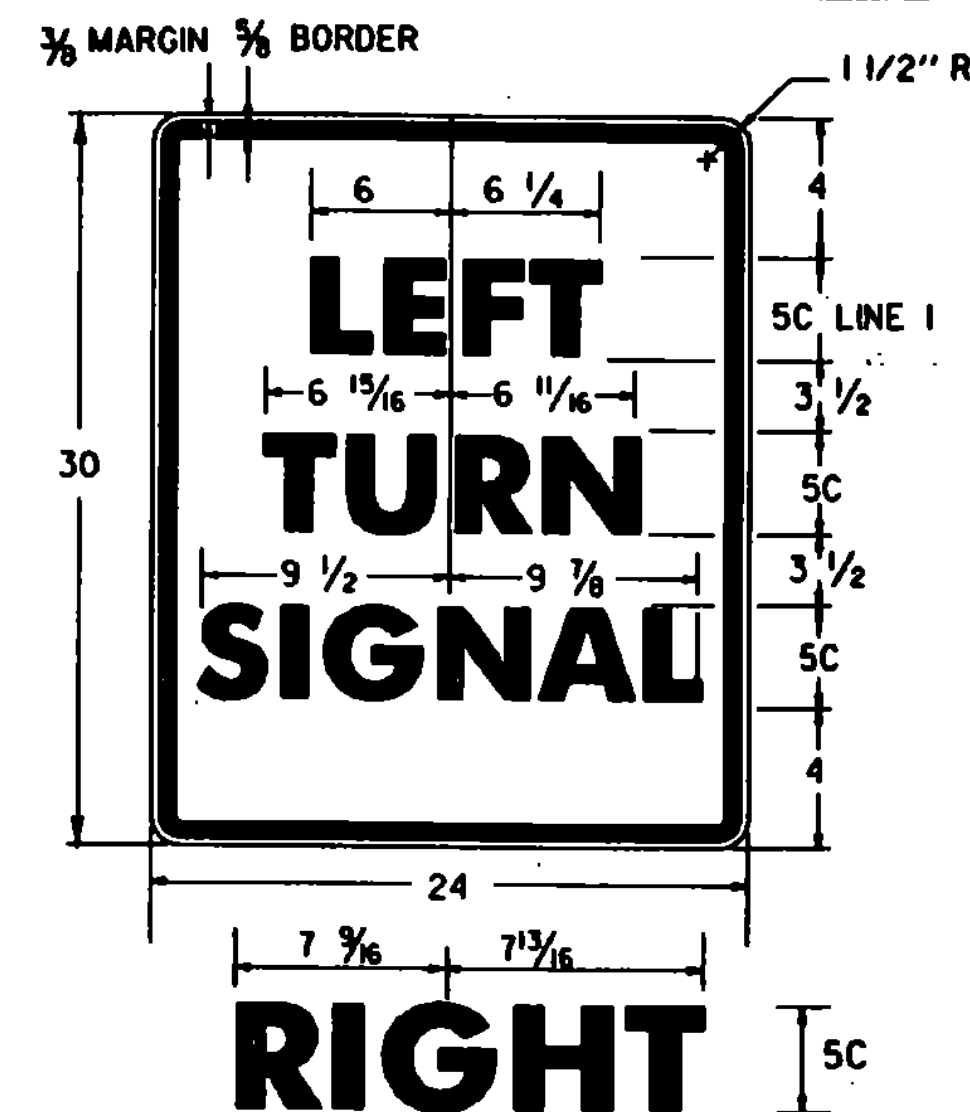
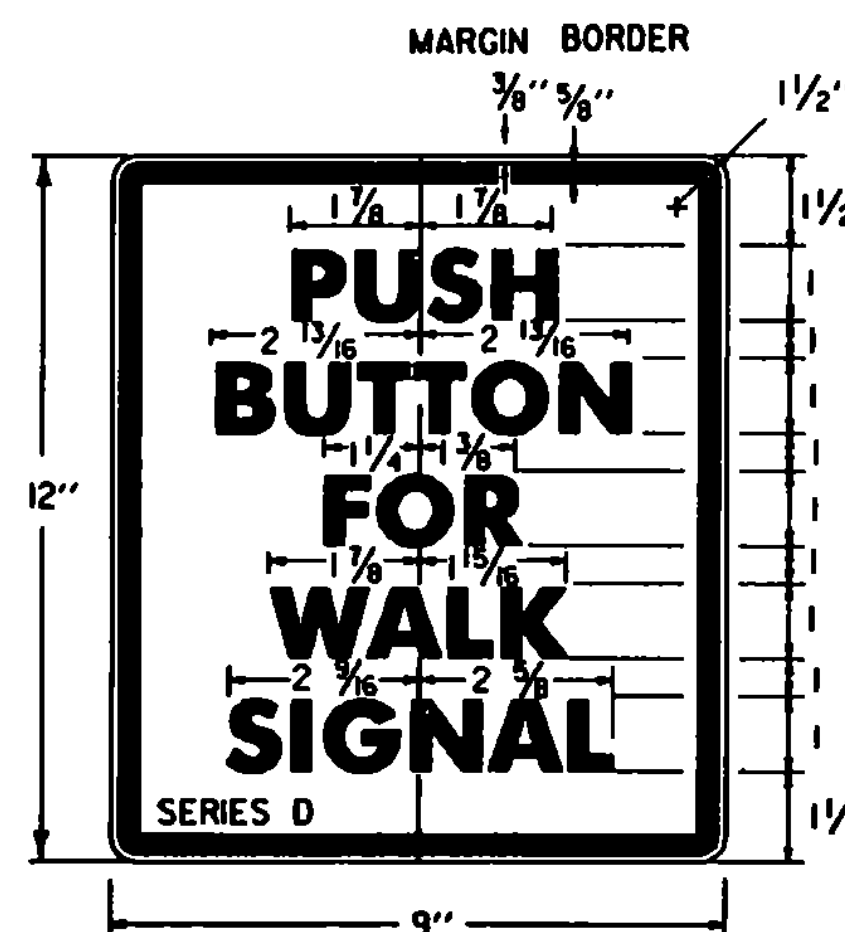
STANDARD
E-136



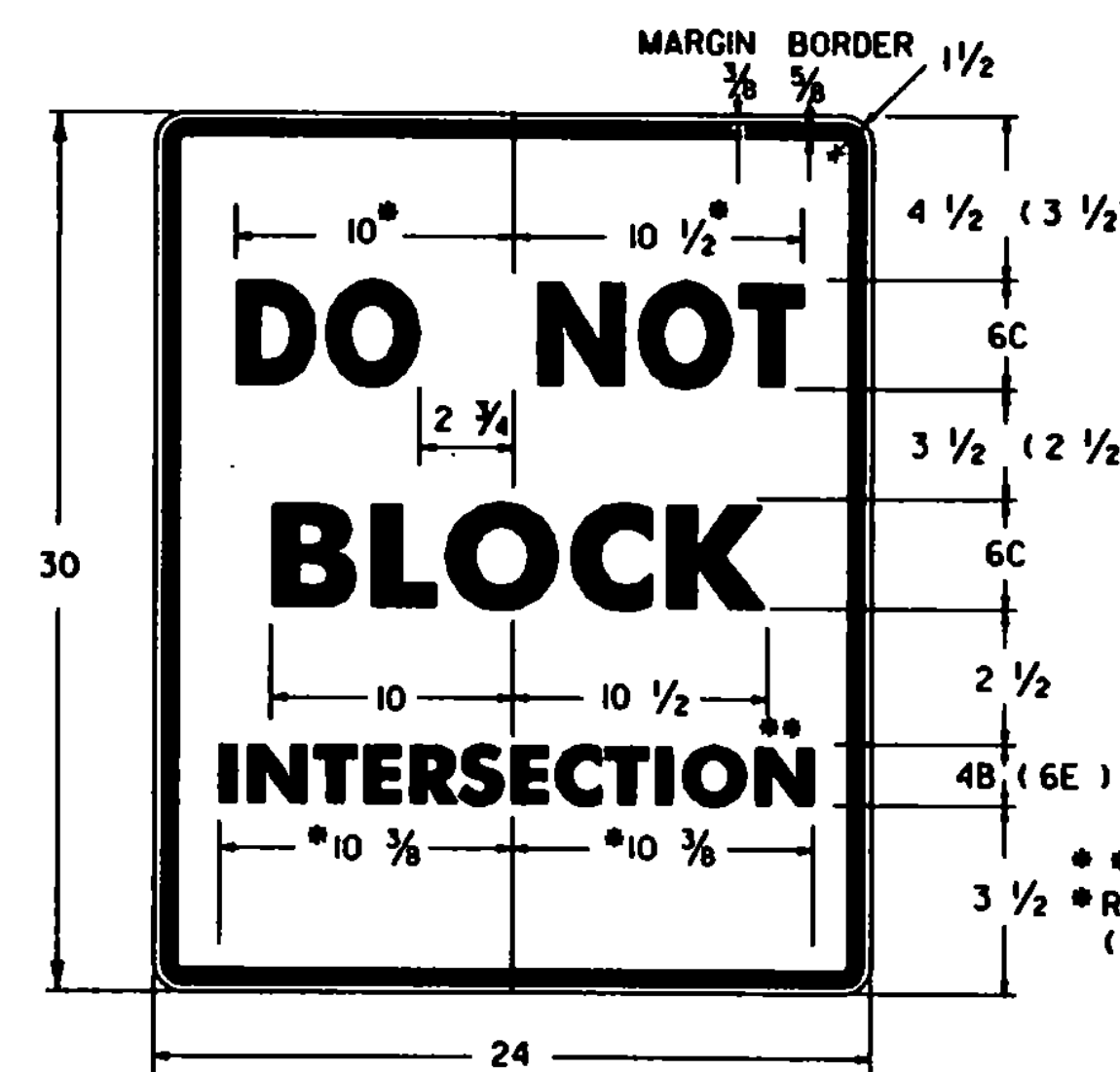
SIGN	A	B	C	D	E	F	G	H
STD.	24	36	3/8	3/8	4	50	2 1/2	30
SPECIAL	36	48	3/8	3/8	6	60	4	40
SIGN	J	K	L	M	N	O	P	Q
STD.	14	4 3/8	8 3/8	6	2 3/8	14 3/8		
SPECIAL	18	7 3/4	9 3/8	7 1/8	2 3/4	6		



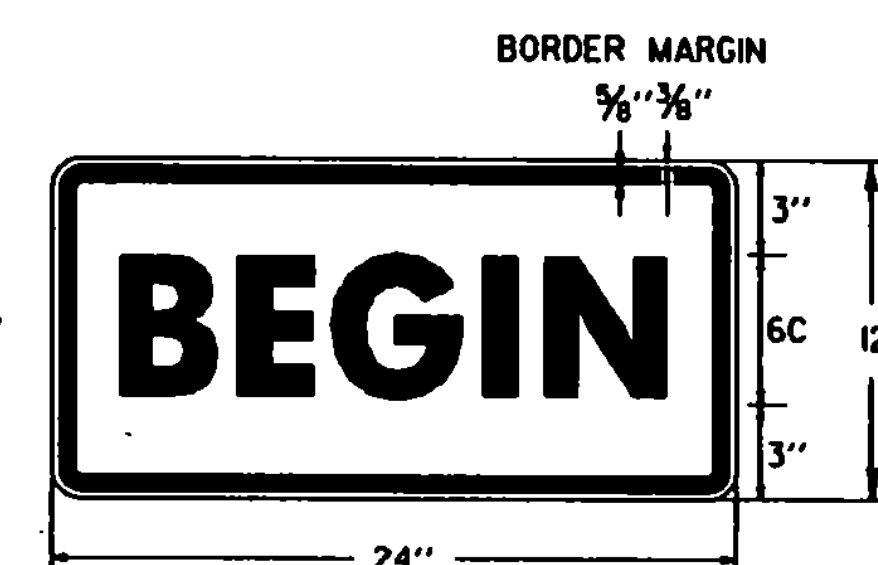
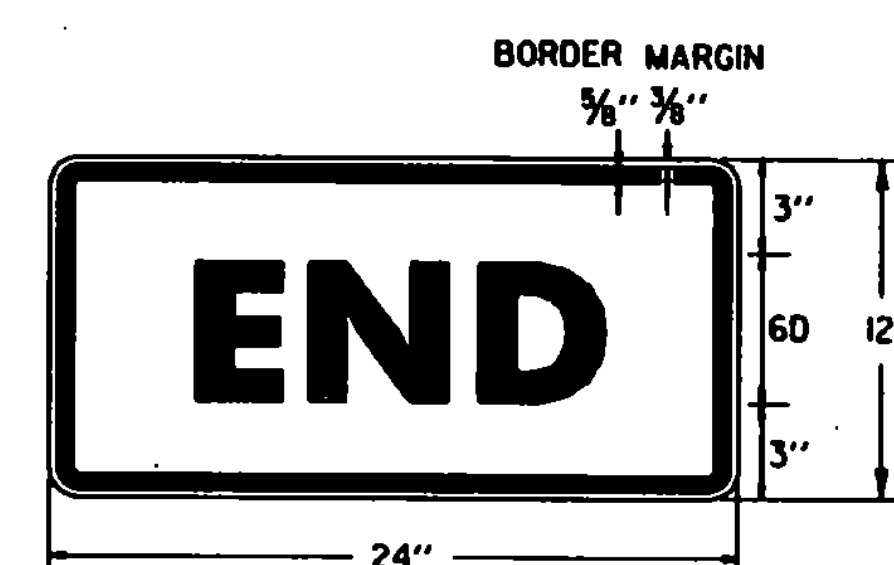
SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	K
STD.	24	30	3/8	5/8	3 1/4	5E	2 1/4	40	3	4 1/8
SPECIAL	36	48	3/8	1/2	6	8E	3 1/2	60	5 1/2	7 3/4
	L	M	N	P	Q	R	S			
STD.	5 3/8	6 3/8	6 1/2	3 1/2	4 3/8	4 3/8	1 1/2			
SPECIAL	8 1/4	10	9 3/4	5 1/4	6 3/8	7 3/8	2 1/4			



SIGN	DIMENSIONS (INCHES)									
	A	B	C	D	E	F	G	H	J	K
MIN. AND STD.	24	36	3/8	3/8	2 1/2	3E	1 1/2	16	1 1/2	8 1/16
SPECIAL	36	48	3/8	3/8	3 1/2	5E	1 1/2	20	2 1/4	14 1/16
	L		M		N		P		Q	
MIN. AND STD.	5 3/4		8		2 1/2		6		2	
	R		S		T		U		V	
SPECIAL	9 1/2		12		3		8		3	
	W		X		Y		Z		AA	
MIN. AND STD.	10 1/2		14		4		10		4	
SPECIAL	12 1/2		16		5		12		5	



• • DRIVE
3 1/2 • REDUCE SPACING 50 %
() INDICATES DIMENSIONS FOR
"DO NOT BLOCK DRIVE" SIGN



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 THE 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 36"
9" x 12"	0.060"	0.080"	0.080"	0.080"	0.080"
18" x 18"	18 GAGE	16 GAGE	16 GAGE	14 GAGE	14 GAGE

FLAT SHEET ALUMINUM
HIGH DENSITY OVERLAP PLYWOOD
GALVANIZED FLAT SHEET STEEL

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE FLAT TOP 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. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION.

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

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

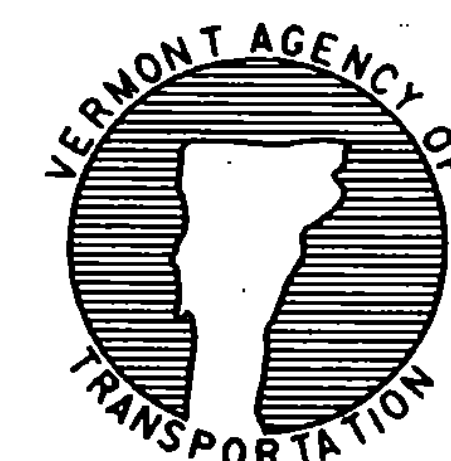
REVISIONS AND CORRECTIONS

APPROVED

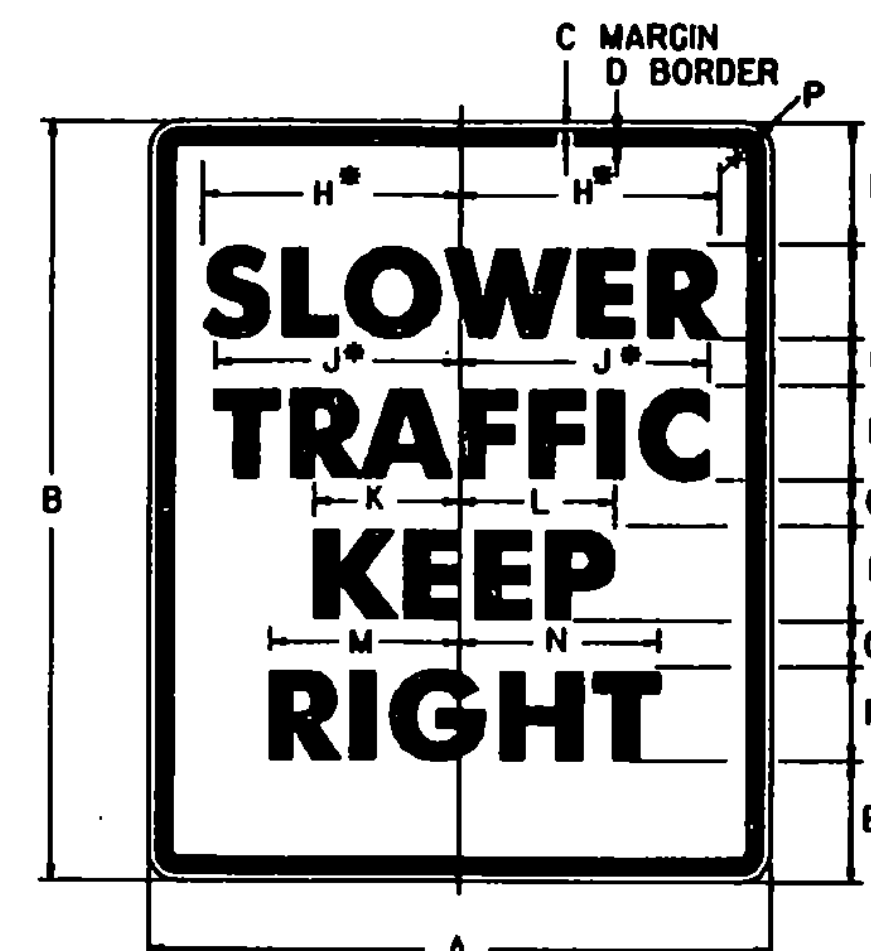
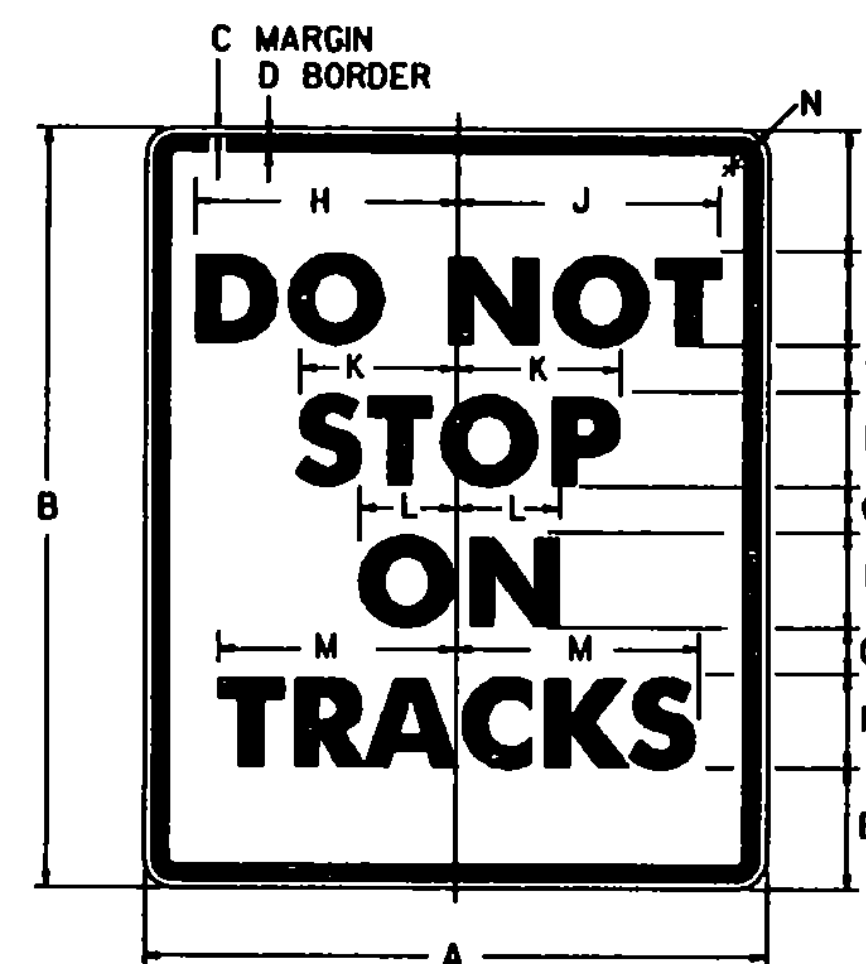
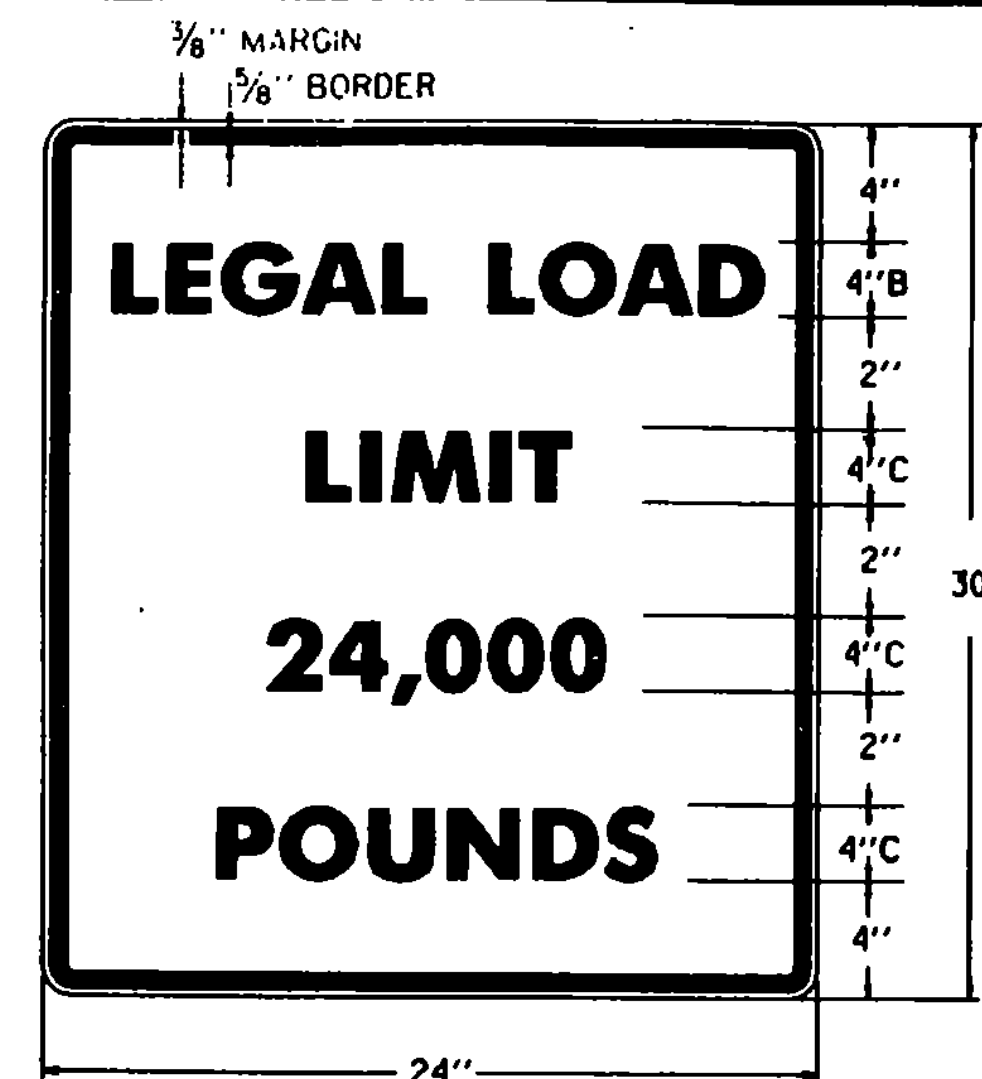
OCT. 30, 1987
DATE

David B. Kelly
CHIEF ENGINEER
Arthur J. Less
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION
London S. MacArthur
TRAFFIC AND SAFETY ENGINEER

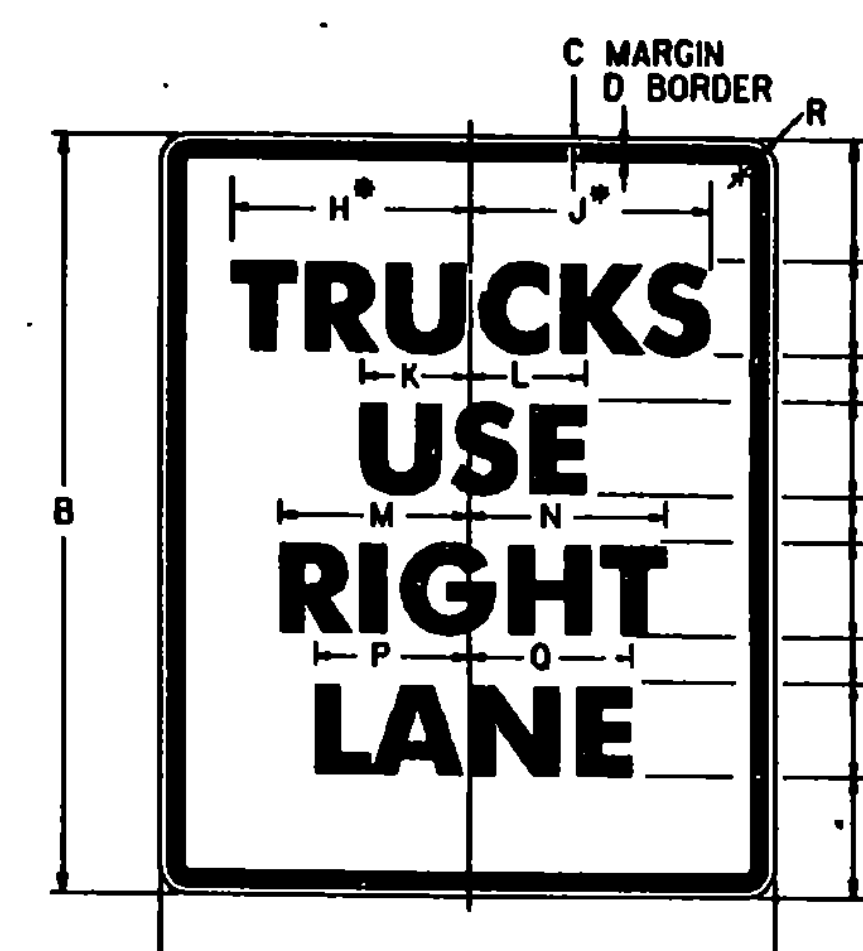
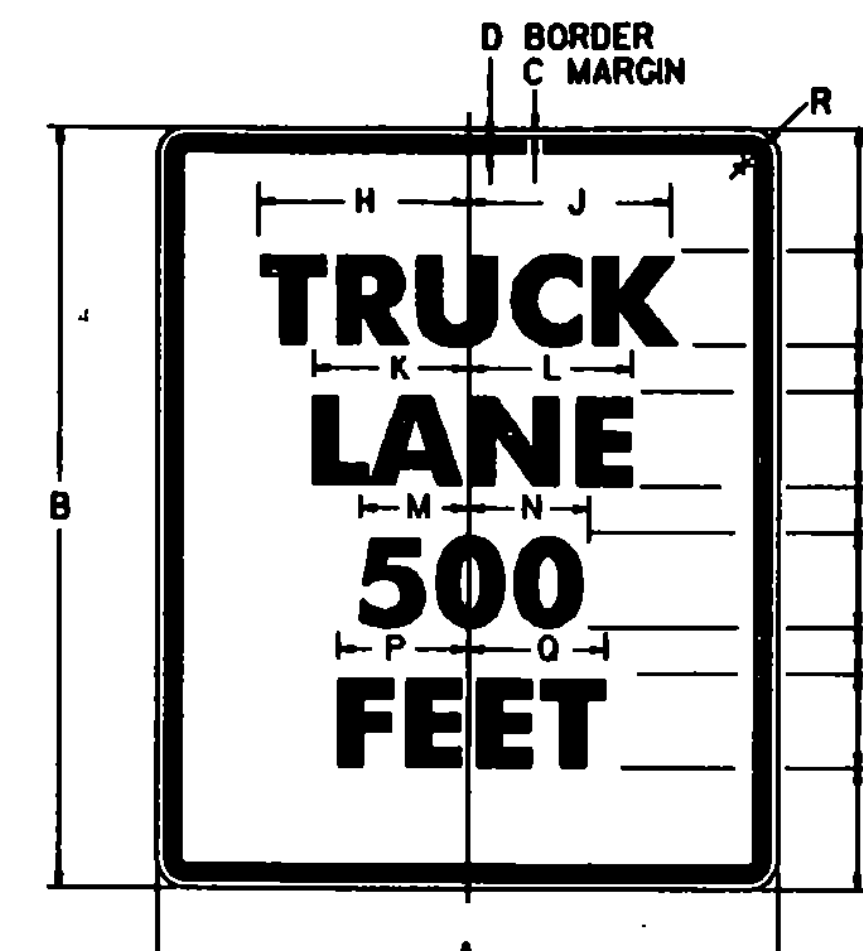
REGULATORY SIGN DETAILS



STANDARD
E-140



* REDUCE SPACING 25 %



* REDUCE SPACING 32 %

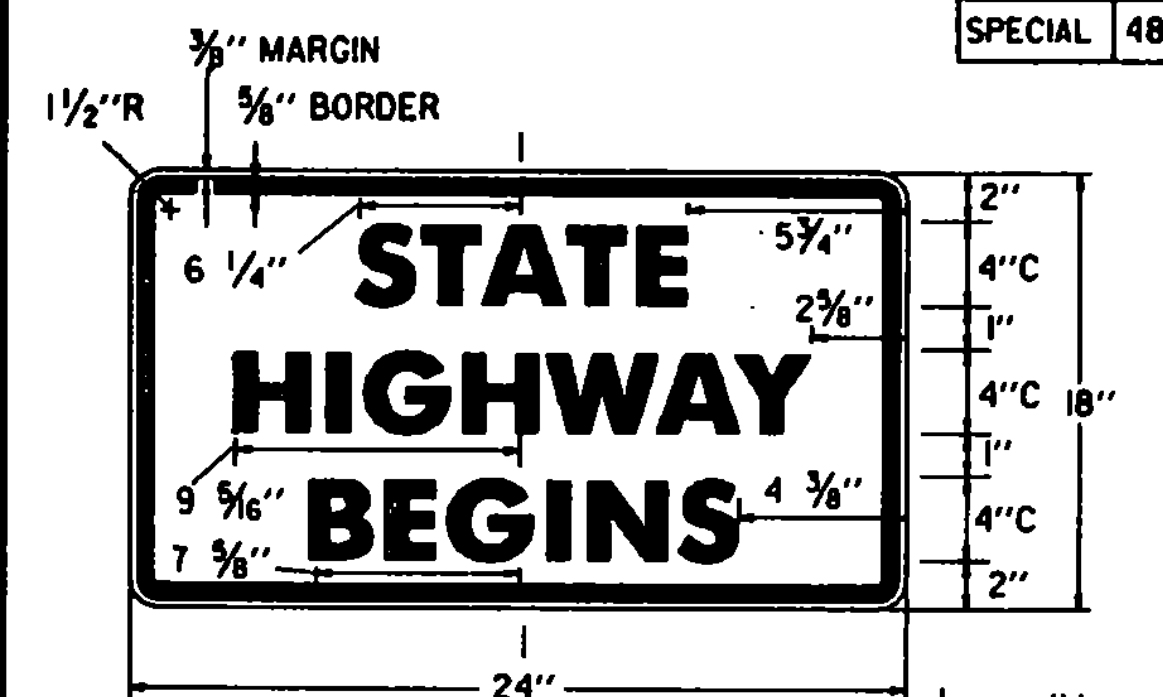
LINE 3 ALTERNATE - 16,000

SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
STD.	24	30	3/8	5/8	3 3/8	4D	2 1/4	9 1/4	9 5/8	6 3/8	3 1/2	10	1 1/2
SPECIAL	36	48	5/8	7/8	6	6D	4	14	14 1/8	9 3/4	5 1/4	15	2 1/4
SPECIAL	48	60	3/4	1 1/4	7 1/4	8D	4 1/2	18 1/2	19 1/4	13 3/8	7	20	3

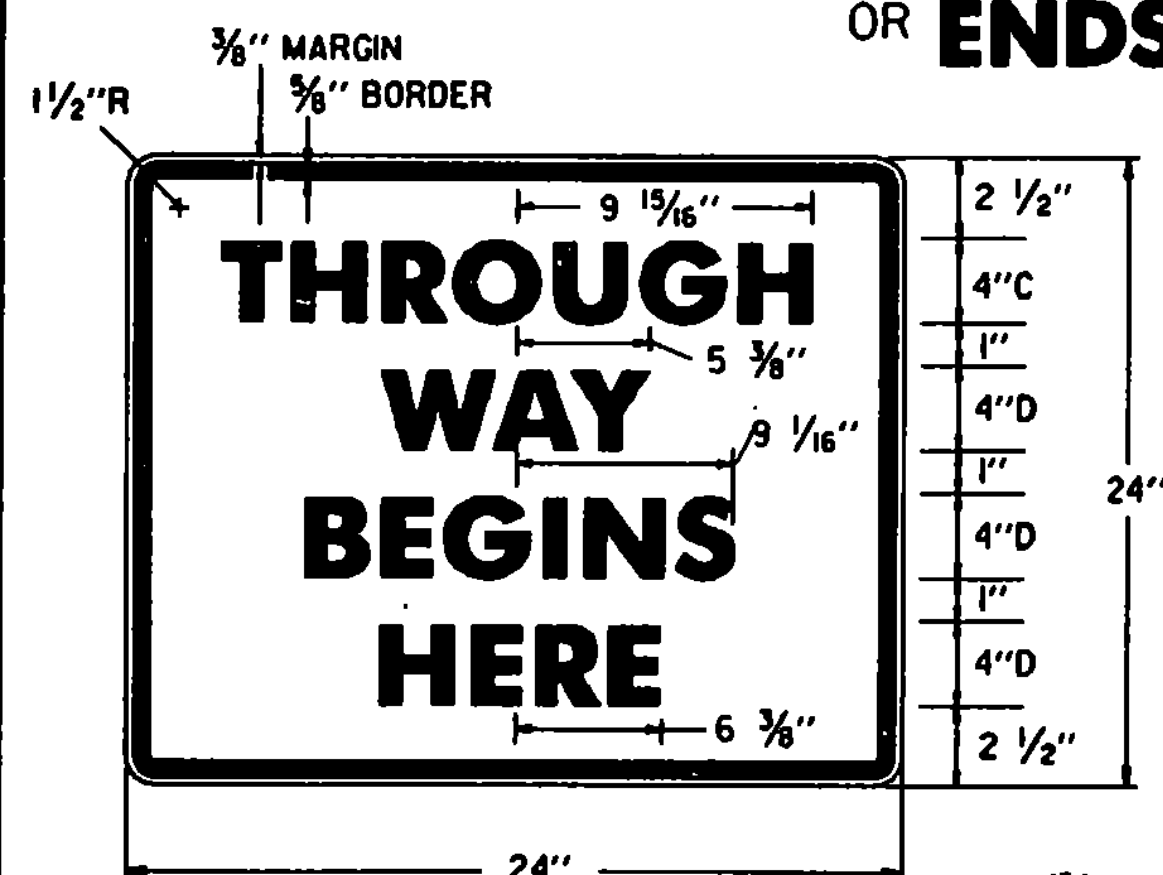
SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
STD.	24	30	3/8	5/8	3 3/8	4D 2 1/4	9 3/4	10	6	6 3/8	7 1/8	7 5/8	1 1/2	
EXPWY.	36	48	5/8	7/8	6	6D 4	14 5/8	15	9	9 1/8	10 1/8	11 3/8	2 1/4	
FWY.	48	60	3/4	1 1/4	7 1/4	8D 4 1/2	19 1/2	20	12	13 1/8	14 1/4	15 1/4	3	

SIGN	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O	R
STD.	24	30	3/8	5/8	3 3/8	4E	2 1/4	9 1/8	9 1/16	7 7/16	7 1/16	5 11/16	5 13/16	6 7/8	7 1/16	1 1/2
EXPWY.	36	48	5/8	7/8	6	6E	4	14 3/4	14 1/2	11 5/16	11 1/2	8 1/2	8 3/4	10 5/16	10 5/8	2 1/4
FWY.	48	60	3/4	1 1/4	7 1/4	8E	4 1/2	19 5/8	19 3/8	15 1/8	15 3/8	11 3/8	11 3/4	13 3/4	14 1/8	3

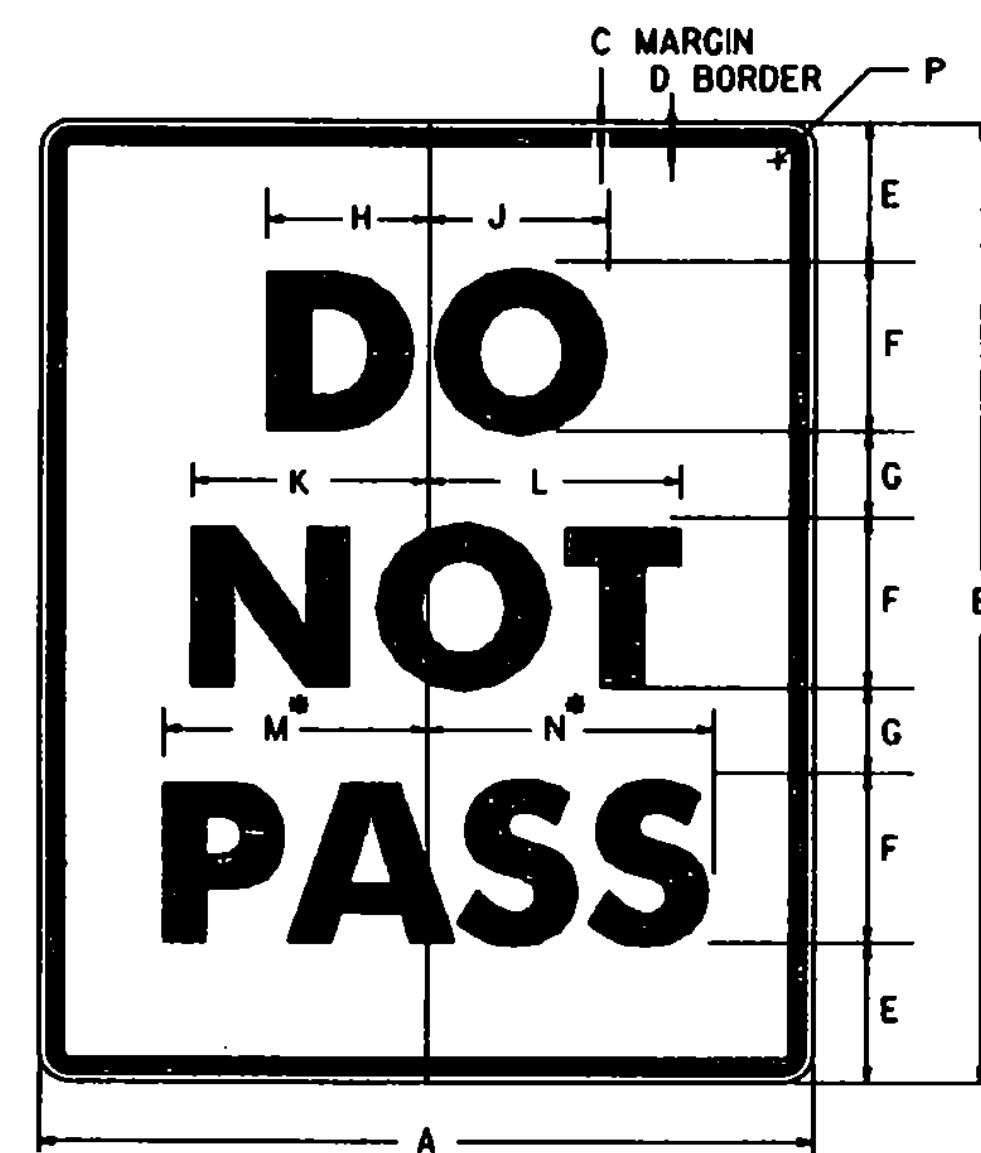
SIGN	DIMENSIONS (INCHES)															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
STD.	24	30	3/8	5/8	3 3/8	4D	2 1/4	9 1/8	9 3/8	4 3/4	5	7 1/8	7 5/8	6 1/4	6 5/8	1 1/2
EXPWY.	36	48	5/8	7/8	6	6D	4	14 5/8	13 13/16	7 1/8	7 1/2	10 11/16	11 3/8	9 3/8	9 15/16	2 1/4
FWY.	48	60	3/4	1 1/4	7 1/4	8D	4 1/2	19 1/8	18 3/8	9 1/2	10	14 1/4	15 1/4	12 1/2	13 1/4	3



OR ENDS

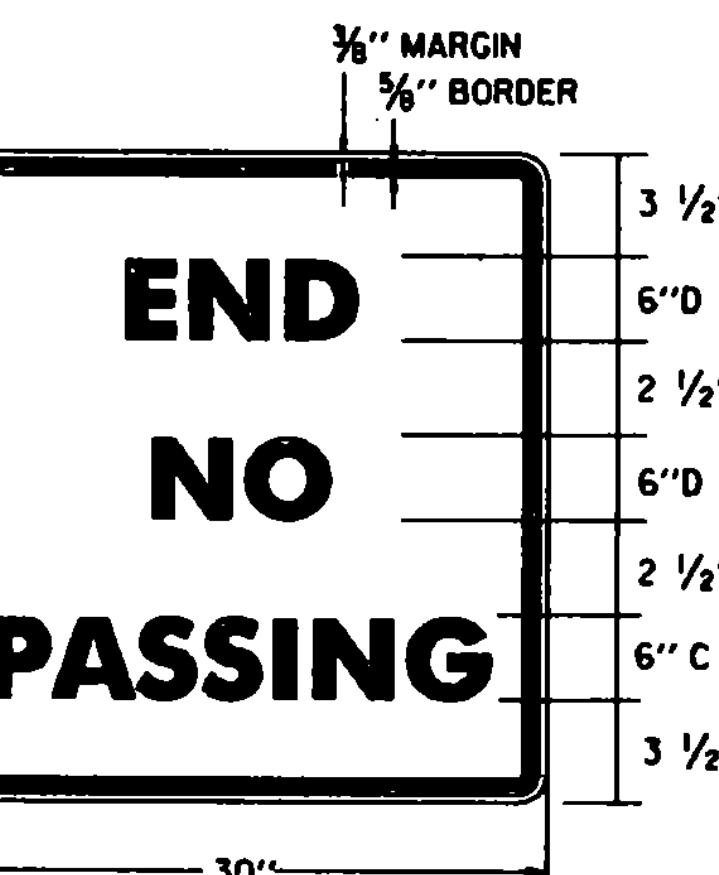
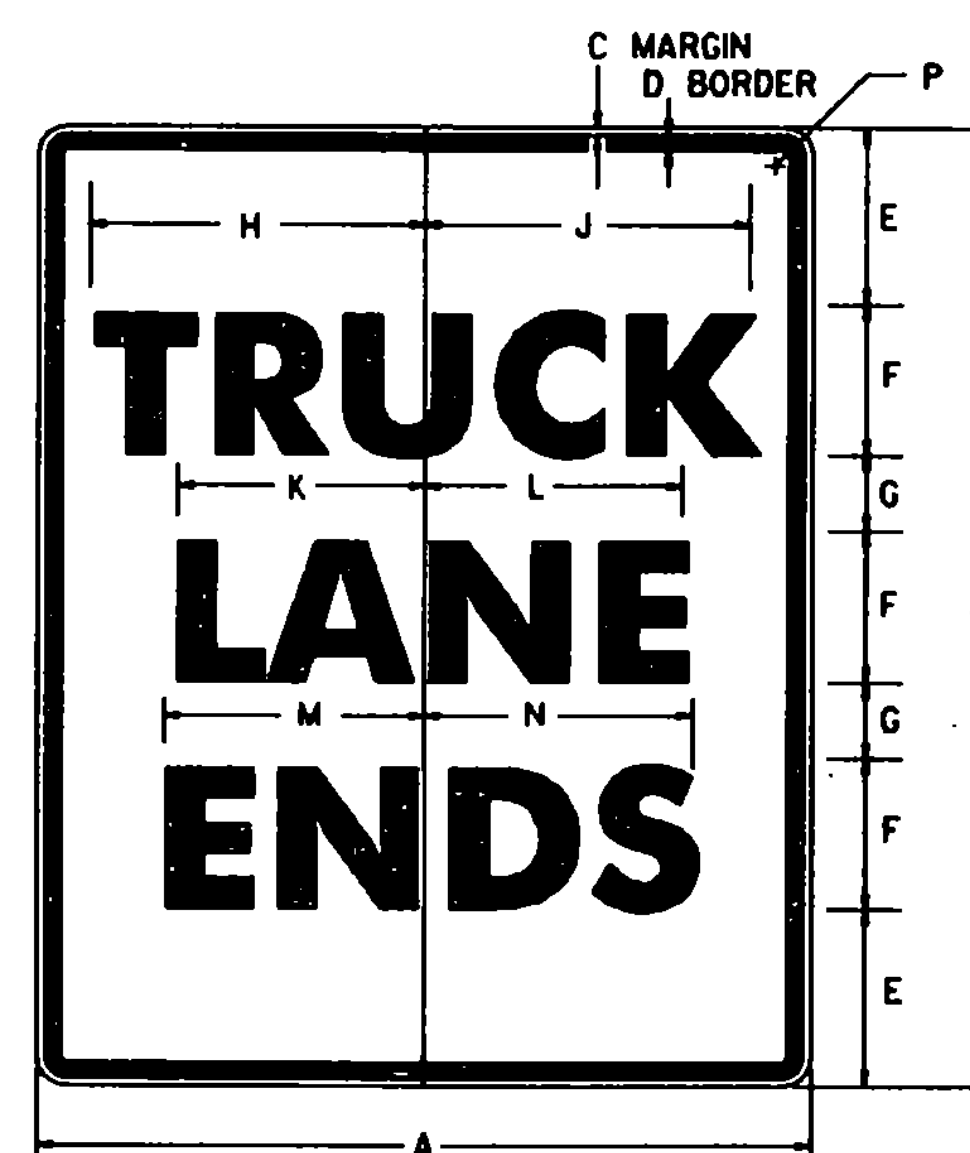


OR ENDS



* REDUCE SPACING 40 %

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



* REDUCE SPACING 49 %

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

COLORS:
THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND. 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 REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

FLAT SHEET ALUMINUM	24" x 18"
HIGH DENSITY OVERLAP PLYWOOD	24" x 24"
GALVANIZED FLAT SHEET STEEL	24" x 30"
	36" x 48"
	30" x 30"
	48" x 60"
	0.060"
	0.080"
	0.100"
	1/8 GAGE
	1/4 GAGE
	1/2 GAGE

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE FLAT TOP 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. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION.

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

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

REVISIONS AND CORRECTIONS

APPROVED

OCT. 30, 1987

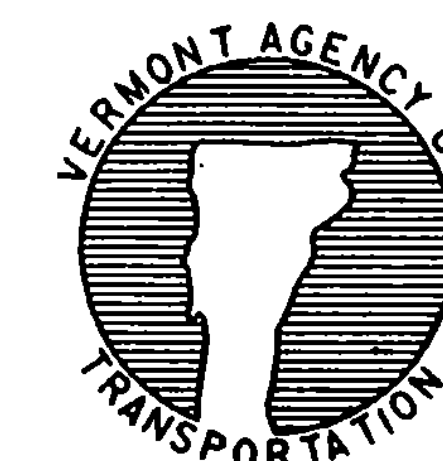
DATE

David B. Kelley
CHIEF ENGINEER

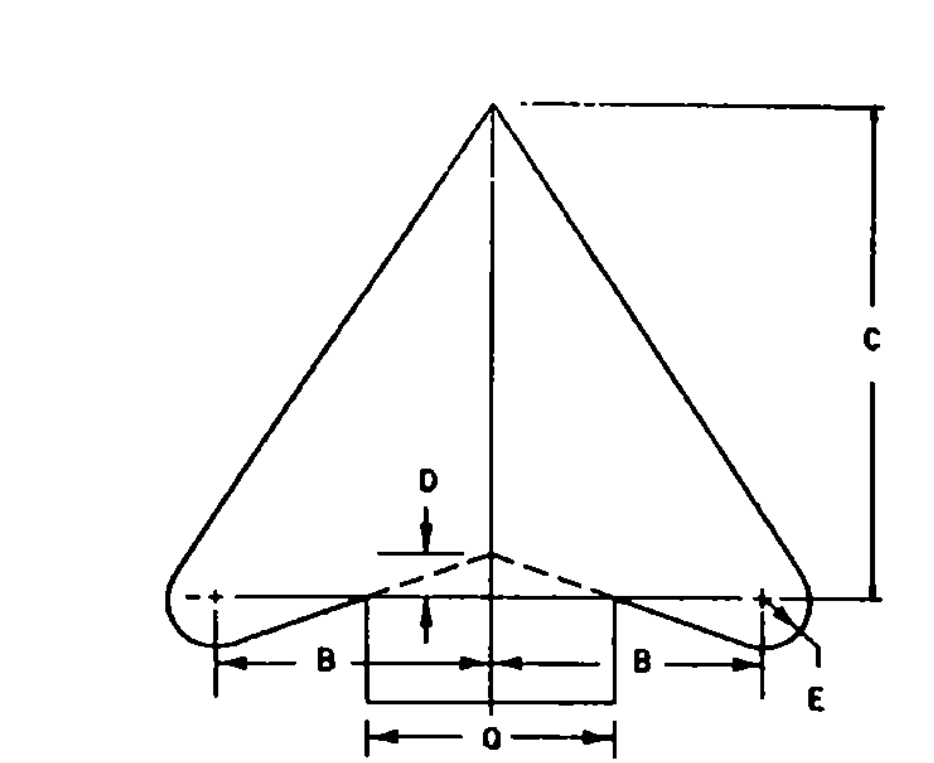
Arthur J. Ross
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION

Andrew B. MacArthur
TRAFFIC AND SAFETY ENGINEER

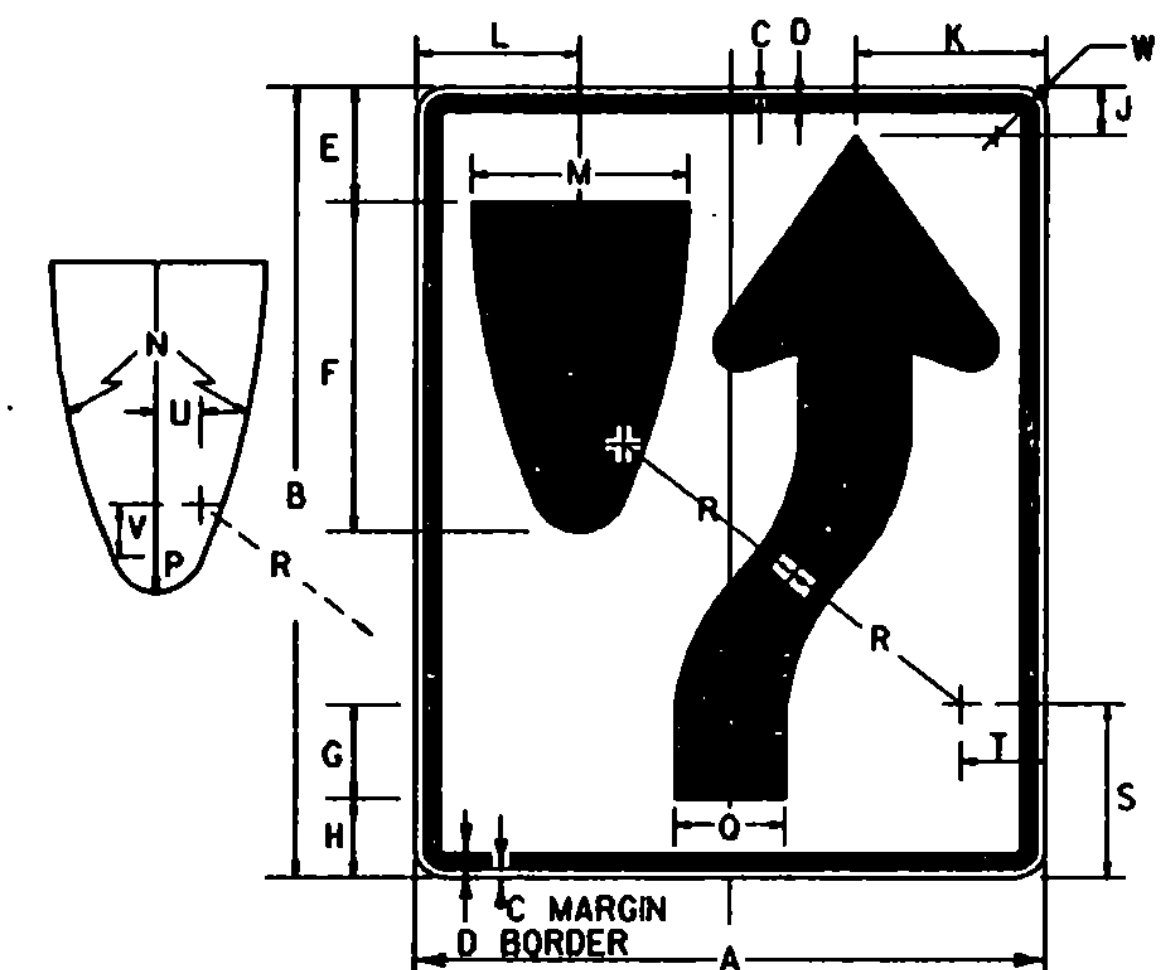
REGULATORY SIGN DETAILS



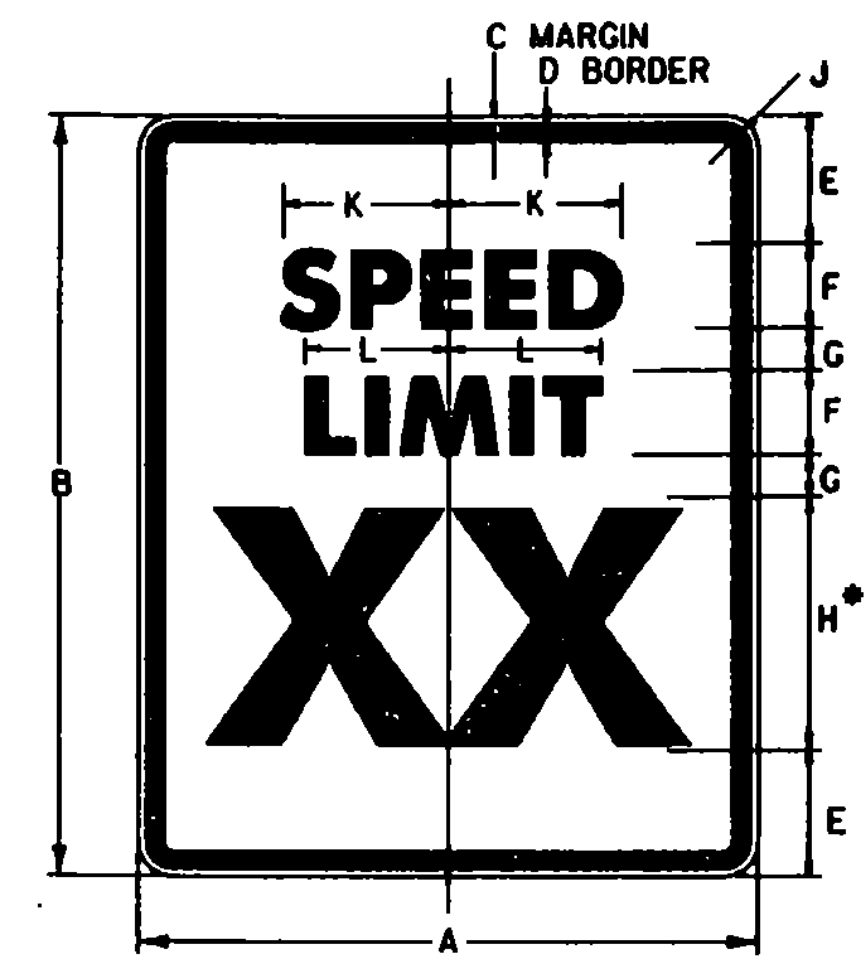
STANDARD
E-141



ARROW HEAD	DIMENSIONS (INCHES)				
	SIZE	B	C	D	E
MINIMUM	18x24	3 1/2	6 1/8	7 1/8	3 1/8
STANDARD	24x30	4 3/8	8 1/8	9 1/8	4 1/8
EXPRESSWAY	36x48	6 3/8	12 3/8	13 1/8	6 1/8
FREEWAY	48x60	9 3/8	16 3/8	17 1/8	9 1/8

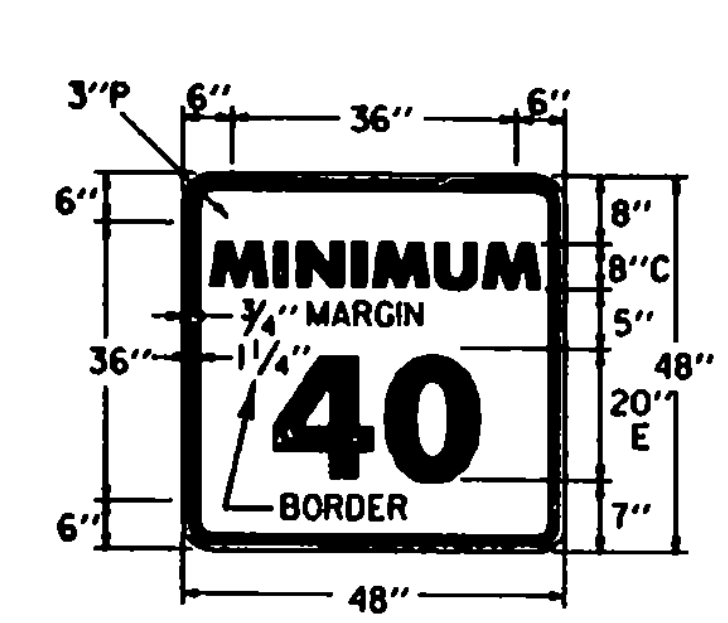


SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	
MIN	18	24	3/8	3/8	3 3/8	9 3/8	1 1/8	2 1/4	1 3/8	5 1/2	
STD	24	30	3/8	3/8	4 1/2	12 1/2	2 1/2	3	1 1/8	7 3/8	
EXPWY	36	48	3/8	3/8	6 3/4	18 3/4	3 3/4	4 1/2	2 13/16	11 1/8	
FWY	48	60	3/4	1 1/4	9	25	5	6	3 3/4	14 13/16	
	L	M	N	P	Q	R	S	T	U	W	
MIN	4 11/16	6	22 1/2	1 1/2	3	6 3/4	4 1/8	2 1/4	1 1/8	3 1/8	
STD	6 1/4	8	30	2	4	9 5/8	3	1 3/8	2 13/16	1 1/2	
EXPWY	9 3/8	12	45	3	6	13 1/2	8 1/4	4 1/2	2	2 3/4	
FWY	12 1/2	16	60	4	8	18	11	6	2 11/16	5	

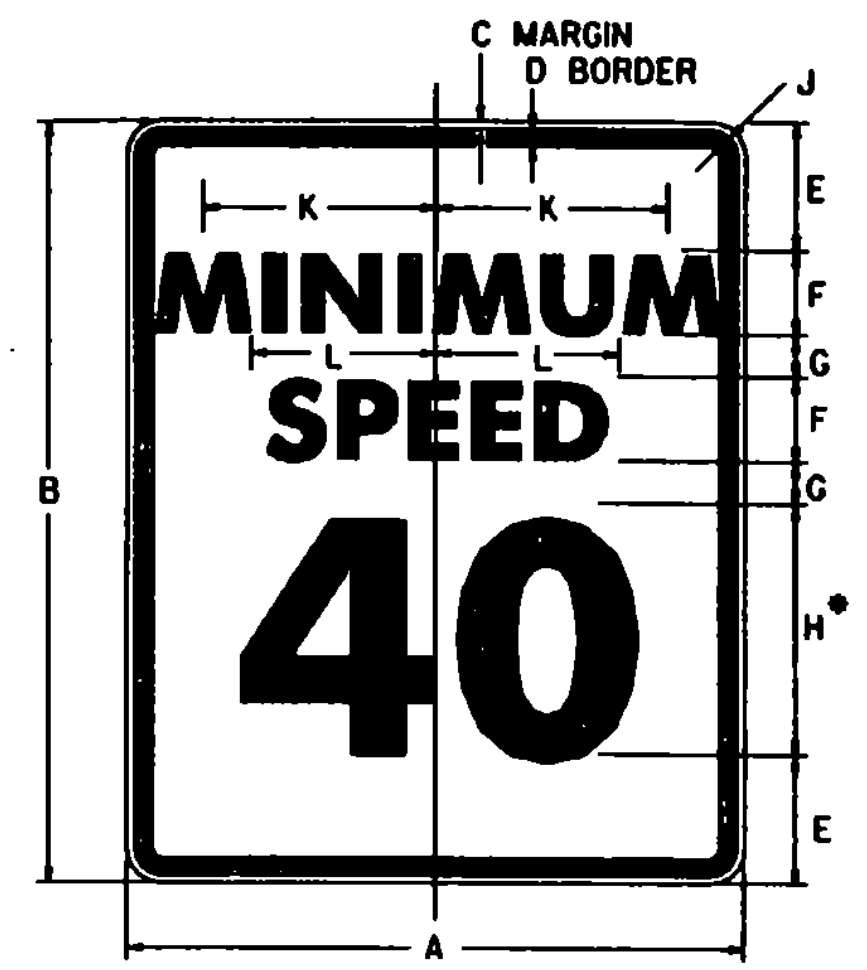


SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN	18	24	3/8	3/8	3	3E	2	8E	1 1/2	7 3/8	5 1/2
STD	24	30	3/8	3/8	4	4E	2	10E	1 1/2	9 3/8	7 3/8
EXPWY	36	48	3/8	3/8	6	6E	5	14E	2 1/4	14 3/8	11
FWY	48	60	3/4	1/4	8	8E	4	20E	3	19 3/8	14 3/8

* OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE.

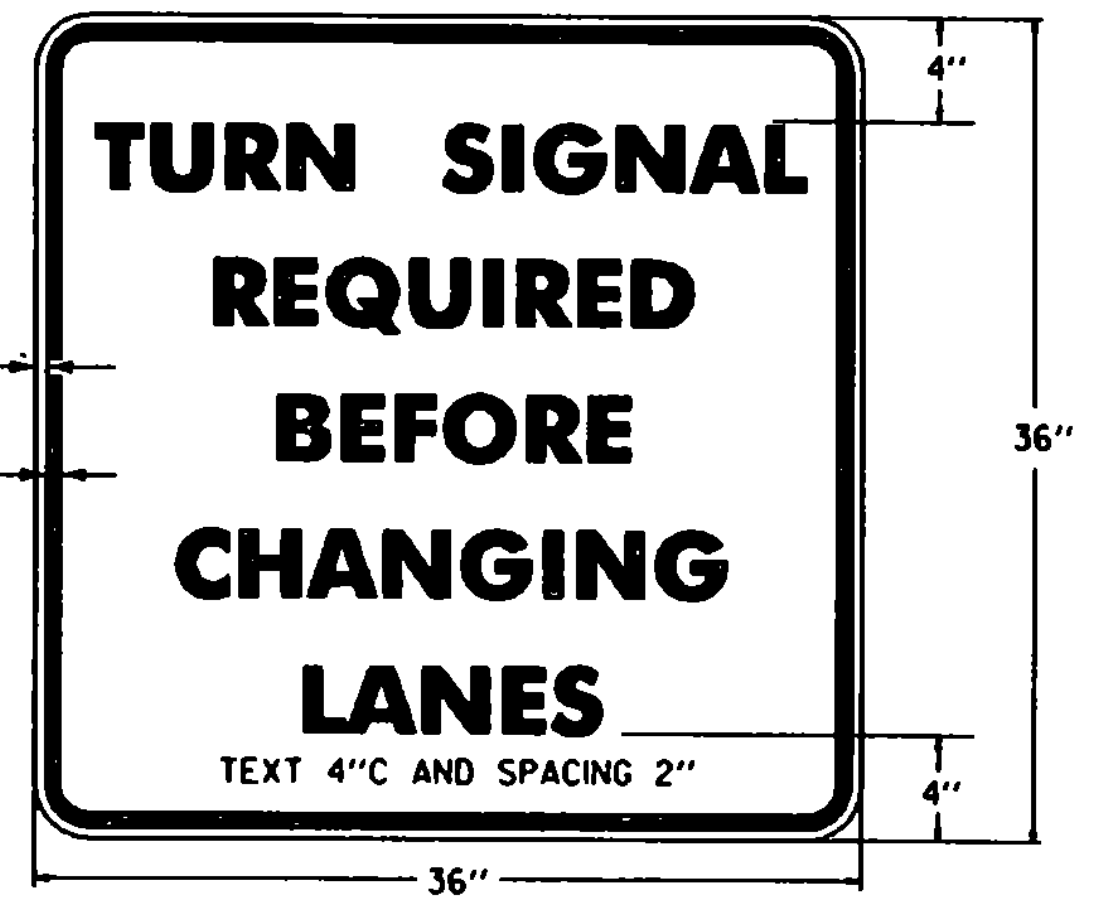
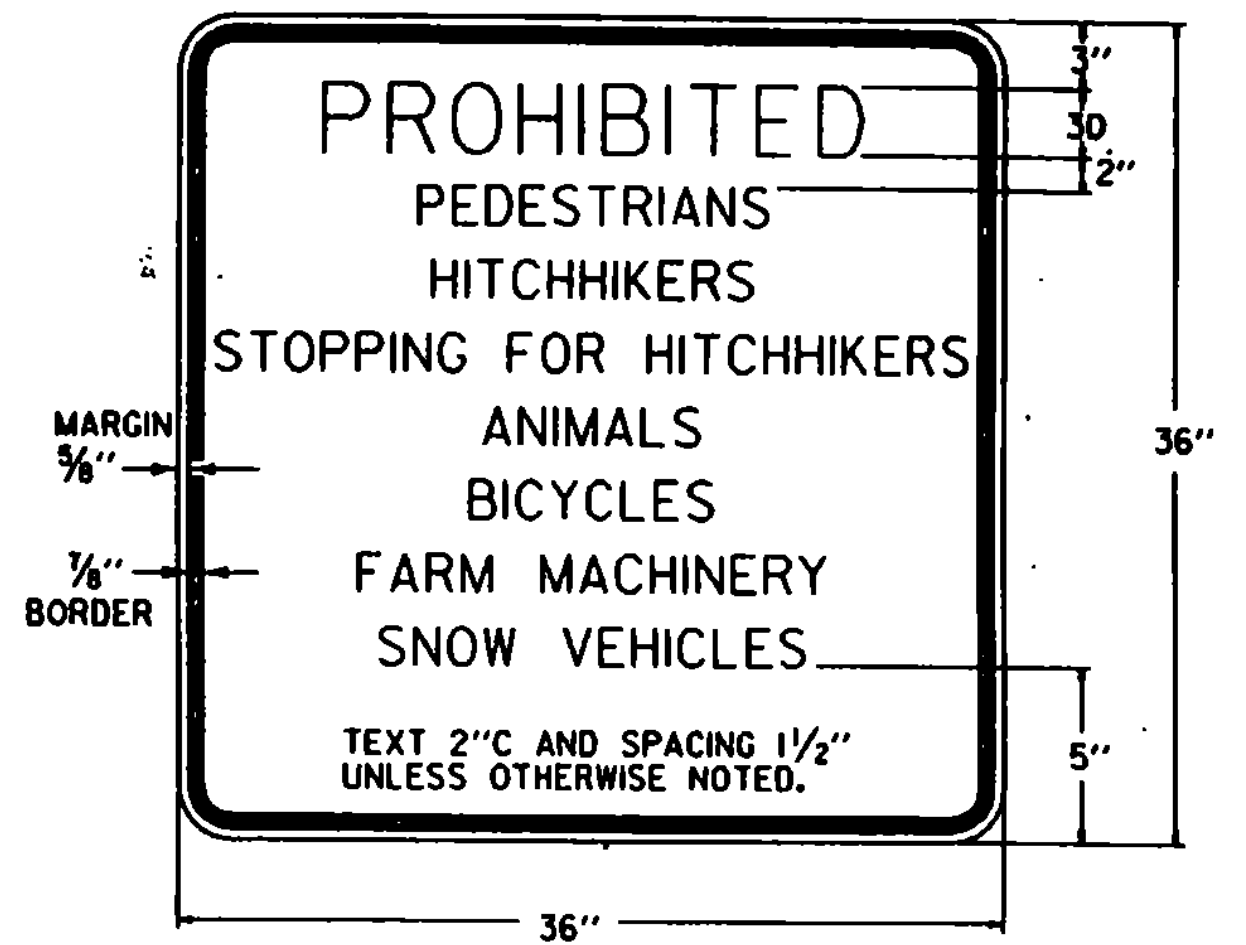


TO BE USED WITH "SPEED LIMIT 65 OR 55" SIGN-FWY ONLY.



SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN & STD	24	30	3/8	3/8	4	4C	2	10D	1 1/2	9 3/8	6 13/16
EXPWY	36	48	3/8	3/8	6	6C	5	14D	2 1/4	13 3/4	10 3/8
FWY	48	60	3/4	1/4	8	8C	6	16D	3	18 3/8	13 3/8

* OPTICALLY SPACE NUMERALS ABOUT VERTICAL CENTERLINE.



COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL HAVE BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND. 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 REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY OF THE FOLLOWING OF THE MINIMUM THICKNESS NOTED.

	36" x 12"
	36" x 36"
	36" x 48"
	48" x 36"
	48" x 48"
	48" x 60"
FLAT SHEET ALUMINUM	0.060"
HIGH DENSITY OVERLAP PLYWOOD	0.080"
GALVANIZED FLAT SHEET STEEL	0.100"
	18 GAGE
	16 GAGE
	14 GAGE

THE REFLECTIVE MATERIAL FOR GROUND MOUNTED SIGNS SHALL BE FLAT TOP WHITE REFLECTIVE SHEETING APPLIED TO THE ENTIRE BACKGROUND OF THE SIGN.

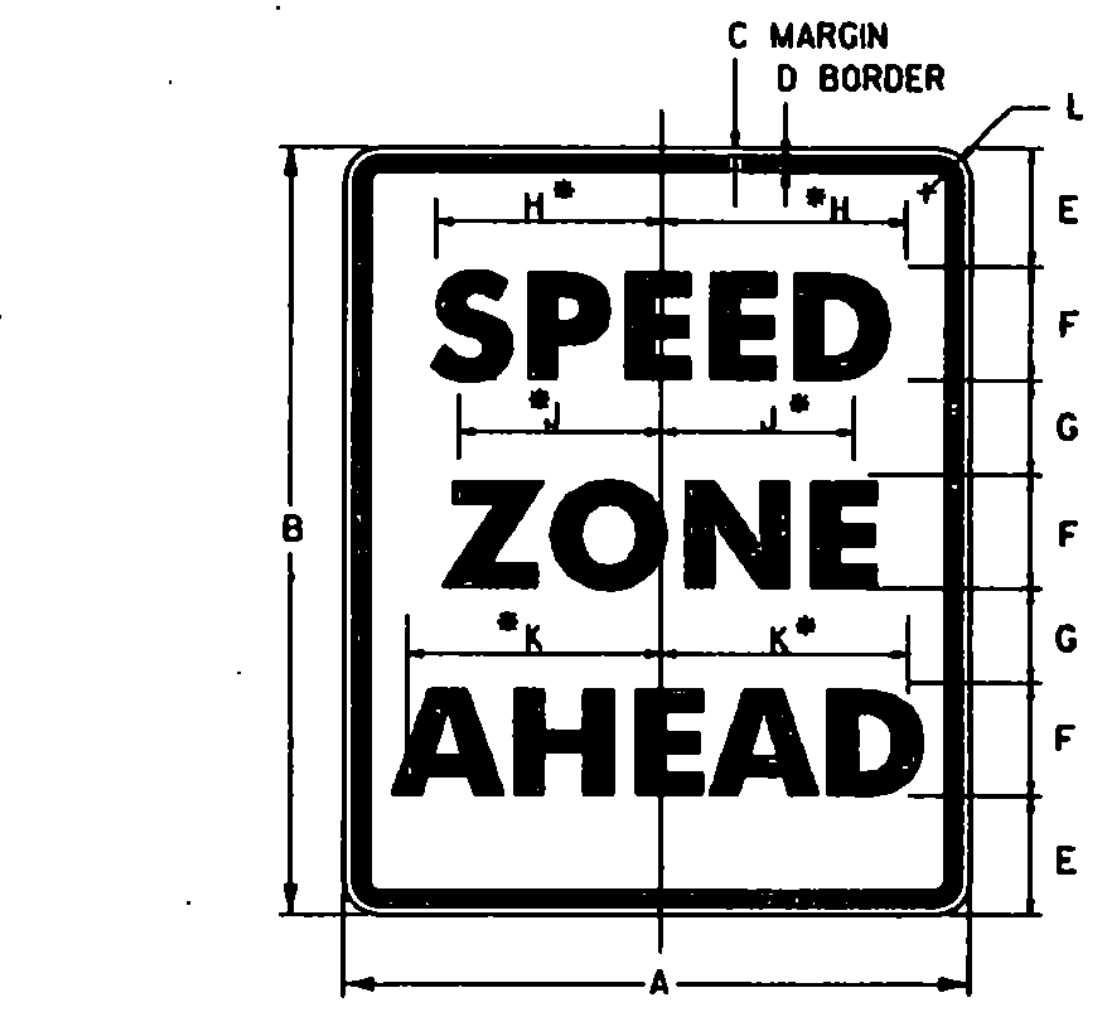
THE TEXT OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENED OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION.

SPECIFICATIONS:

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

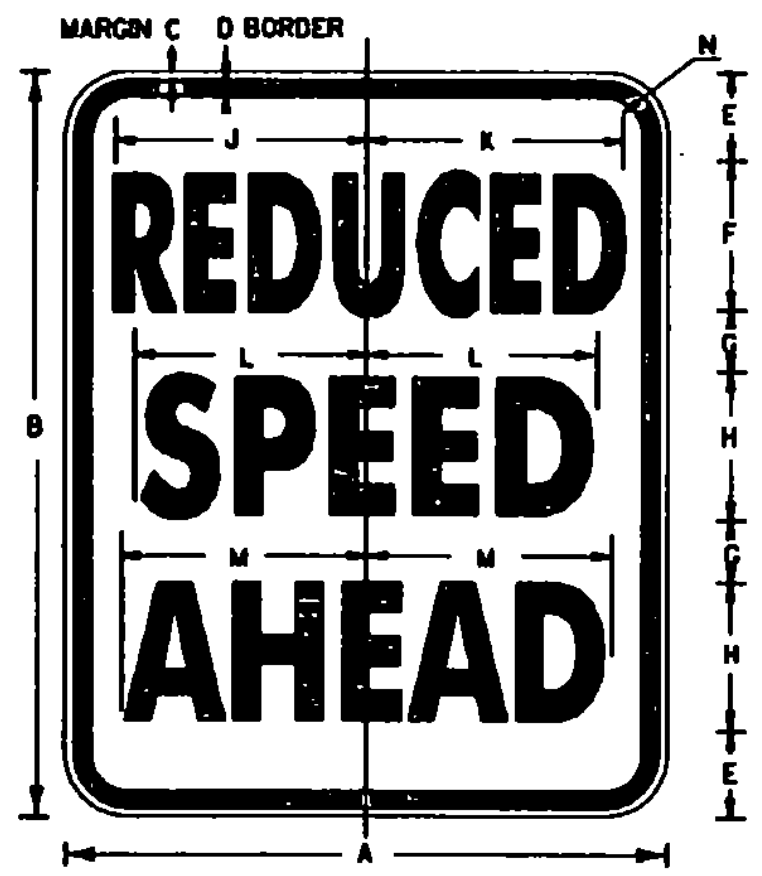
TEXT DESIGN:

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

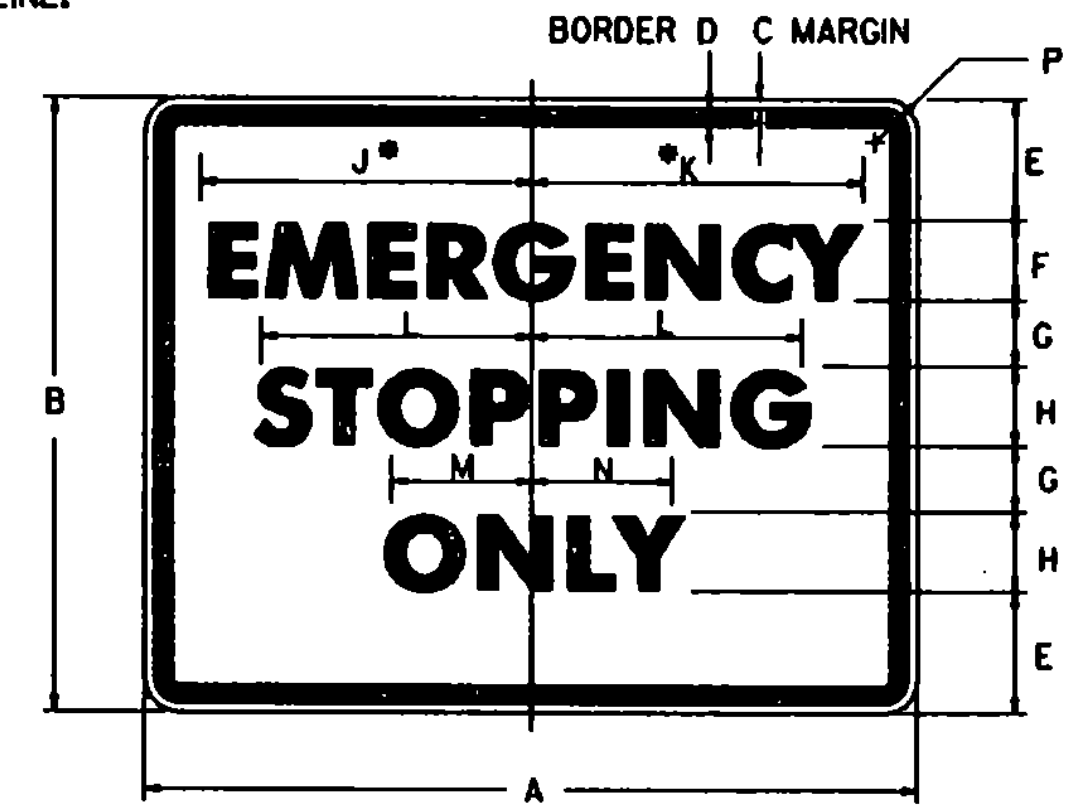


SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN.	18	24	3/8	3/8	3 1/2	4C	2 1/2	6 3/8	5 1/2	7	1 1/2
STD.	24	30	3/8	3/8	3 1/2	6C	2 1/2	9 3/8	7 3/8	9 3/4	1 1/2
EXPWY.	36	48	3/8	3/8	7	8C	5	13 3/8	11 1/8	14	2 1/4
FWY.	48	60	3/4	1/4	9	10C	6	17	13 3/8	17 1/2	3

* FOR STD SIZE, REDUCE SPACING 40 %

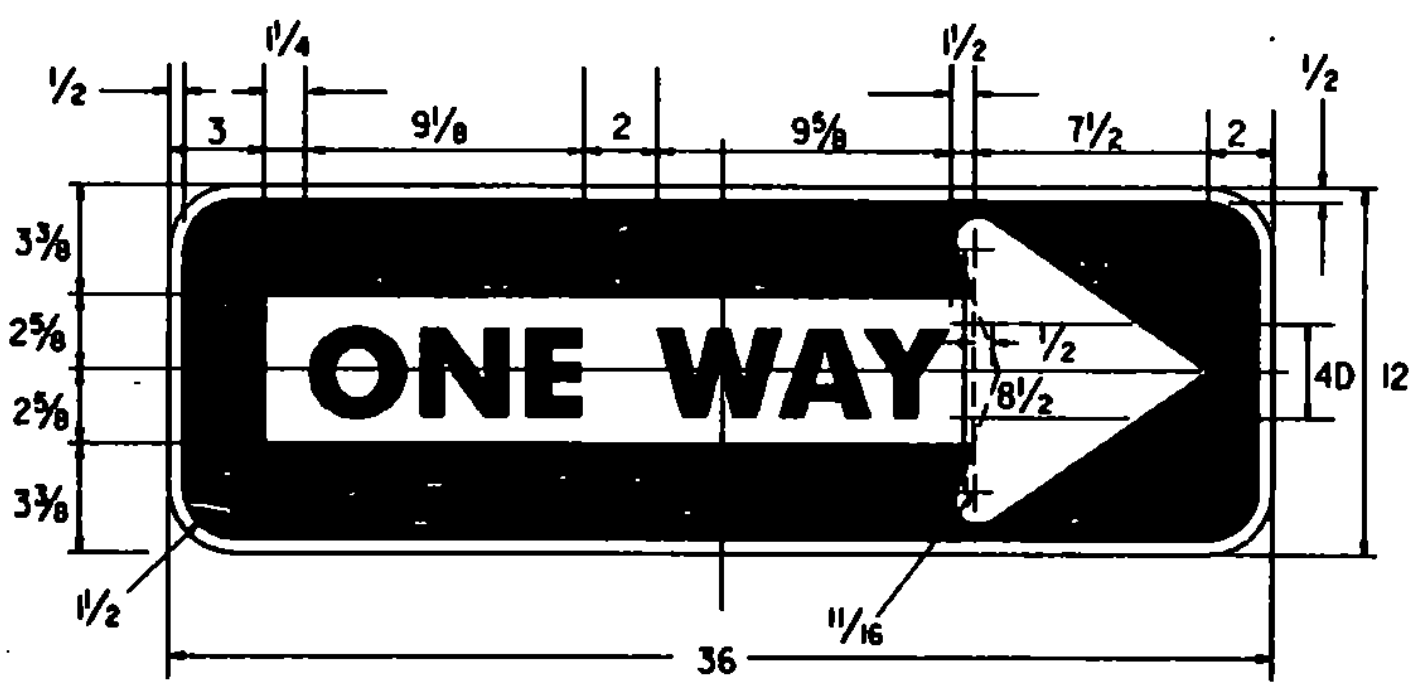


SIGN	DIMENSIONS (INCHES)										
	A	B	C	D	E	F	G	H	J	K	L
MIN.	18	24	3/8	3/8	3 1/2	4B	2 1/2	4C	6 3/8	7	1 1/2
STD.	24	30	3/8	3/8	3 1/2	6B	2 1/2	6C	10	10 3/4	9 3/4
EXPWY.	36	48	3/8	3/8	7	8B	5	8C	14 1/4	14 3/4	13 3/4
FWY.	48	60	3/4	1/4	9	10B	6	10C	17 3/4	18 3/8	17



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
FWY.	48	36	3/8	3/8	5	6D	4	6D	20 3/8	21 1/8	19 3/8

* FOR FWY SIZE, REDUCE SPACING 50 %



REVISIONS AND CORRECTIONS

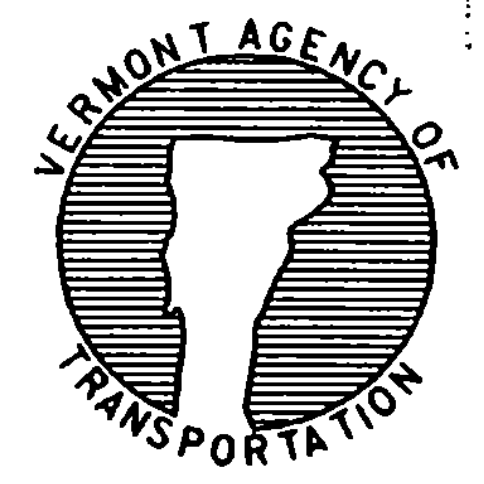
APPROVED

OCT. 30, 1987

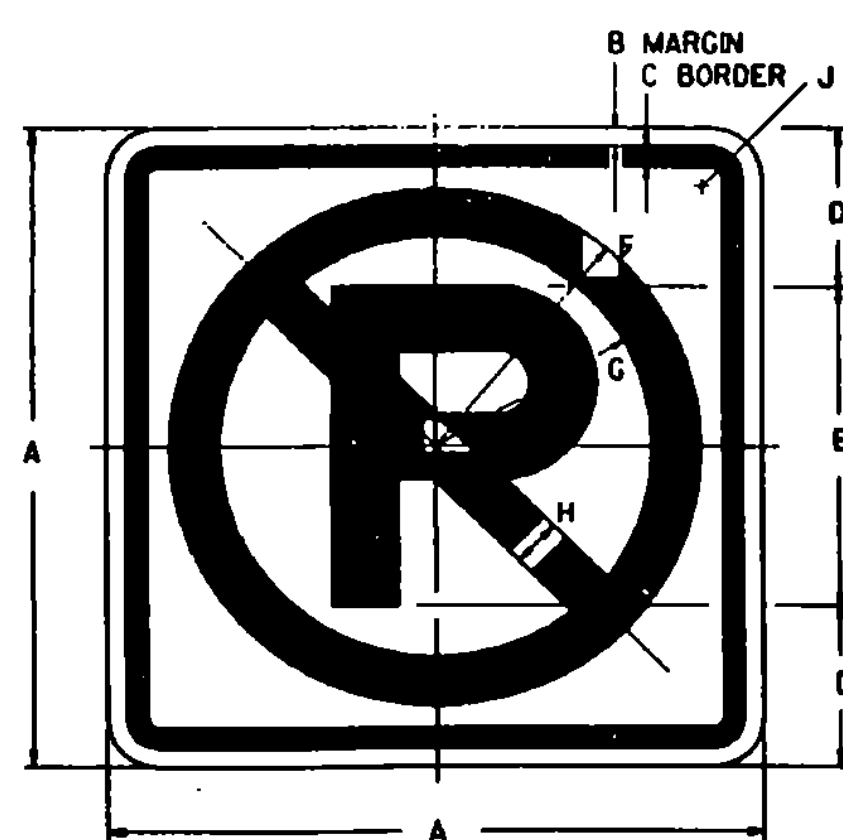
DATE

Paul B. Kelly
CHIEF ENGINEER
Arthur J. Gose
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION
Andrew S. MacArthur
TRAFFIC AND SAFETY ENGINEER

REGULATORY SIGN DETAILS

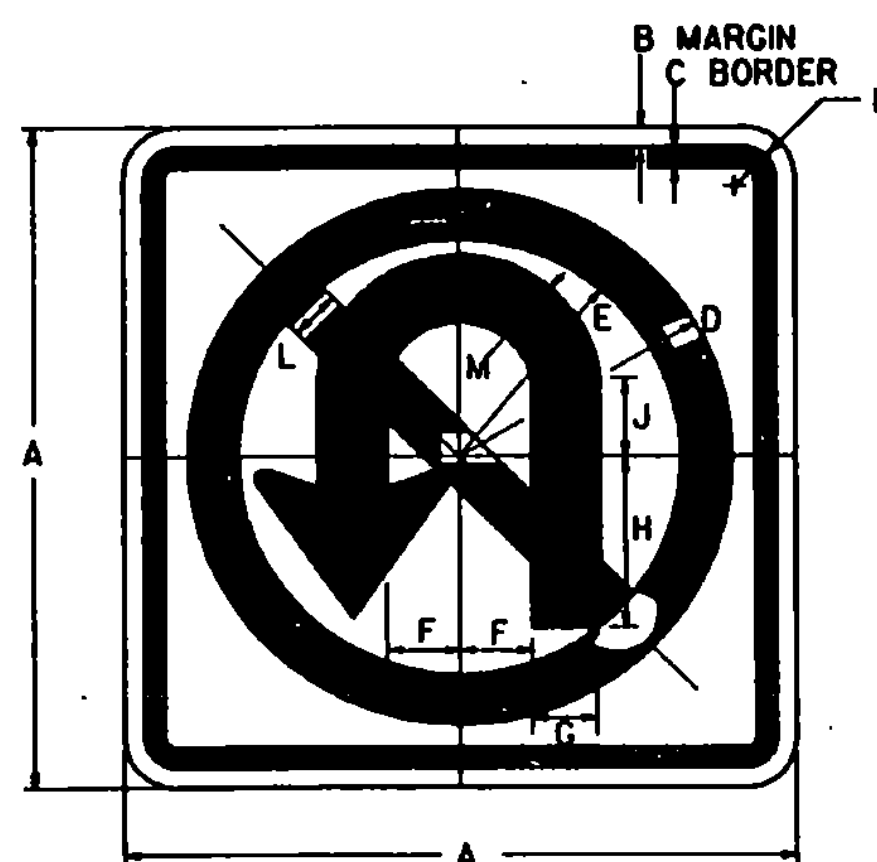


STANDARD
E-142



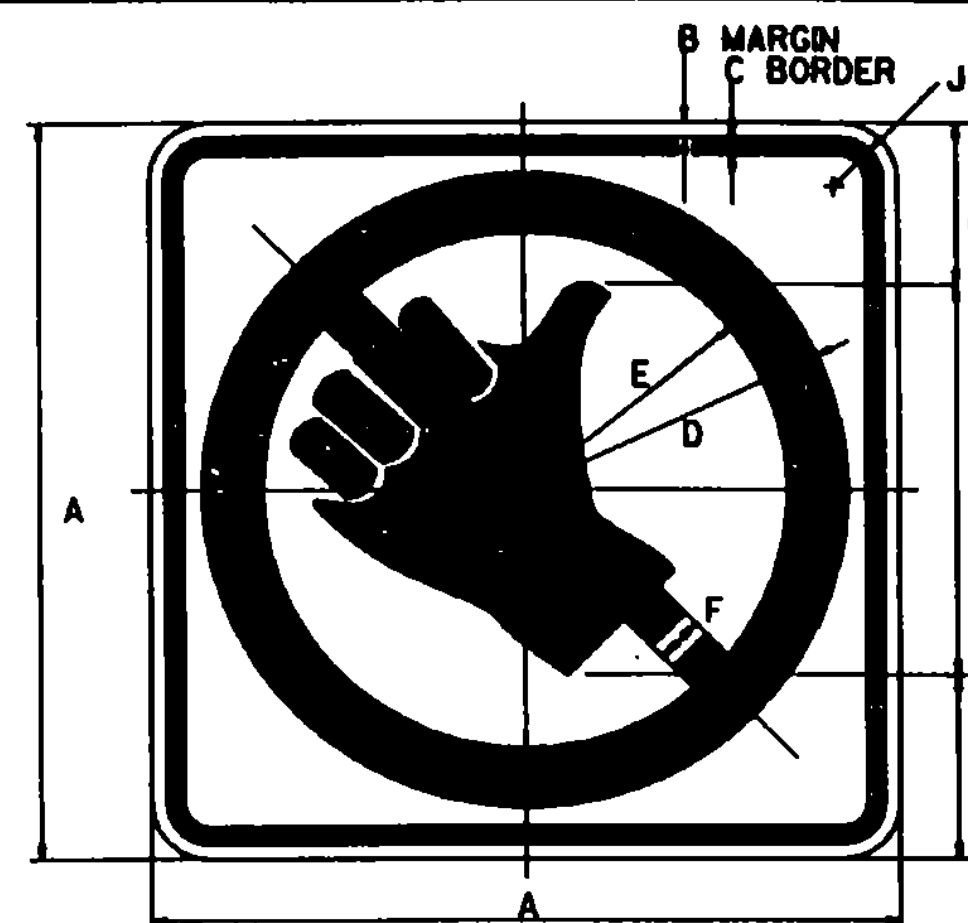
COLORS
CIRCLE AND DIAGONAL - RED (REFL - RURAL)
SYMBOL AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL - RURAL)

SIGN	DIMENSIONS (INCHES)											
URBAN MIN.	12	3/8	3/8	3	6E(M)	4 1/2	3 1/2	1	1/2			
RURAL MIN.	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	3/8	3/8	12	24E(M)	21	17	4	3			



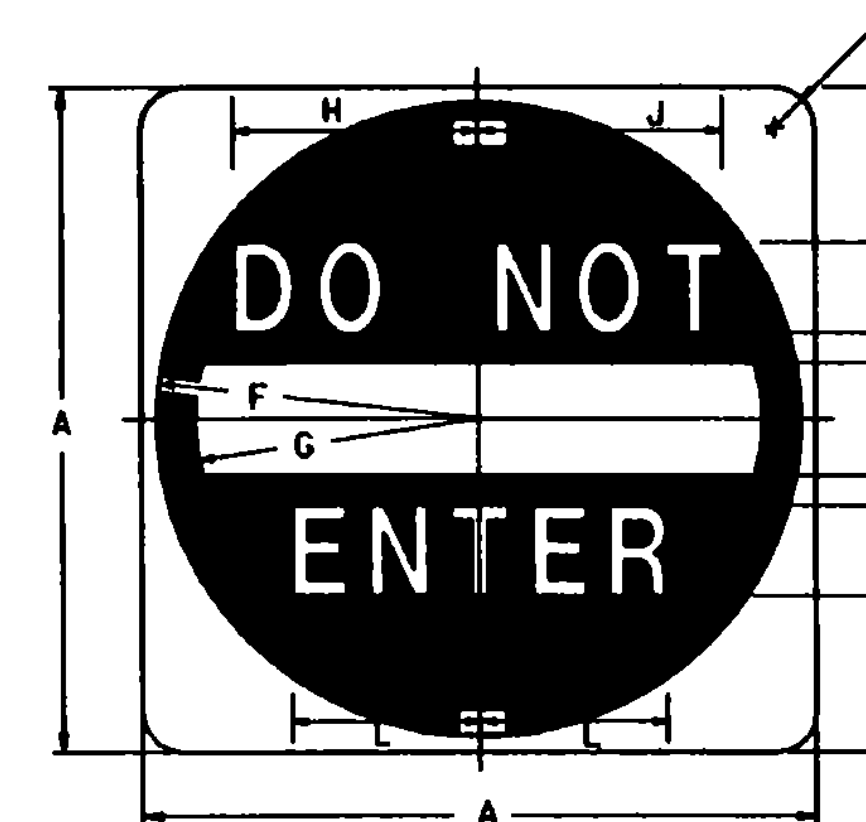
COLORS
CIRCLE AND DIAGONAL - RED (REFL)
ARROW AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

SIGN	DIMENSIONS (INCHES)												
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 3/8	10 3/8	3 3/8	3 3/8	7 1/2	2 3/8	1 3/8	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	



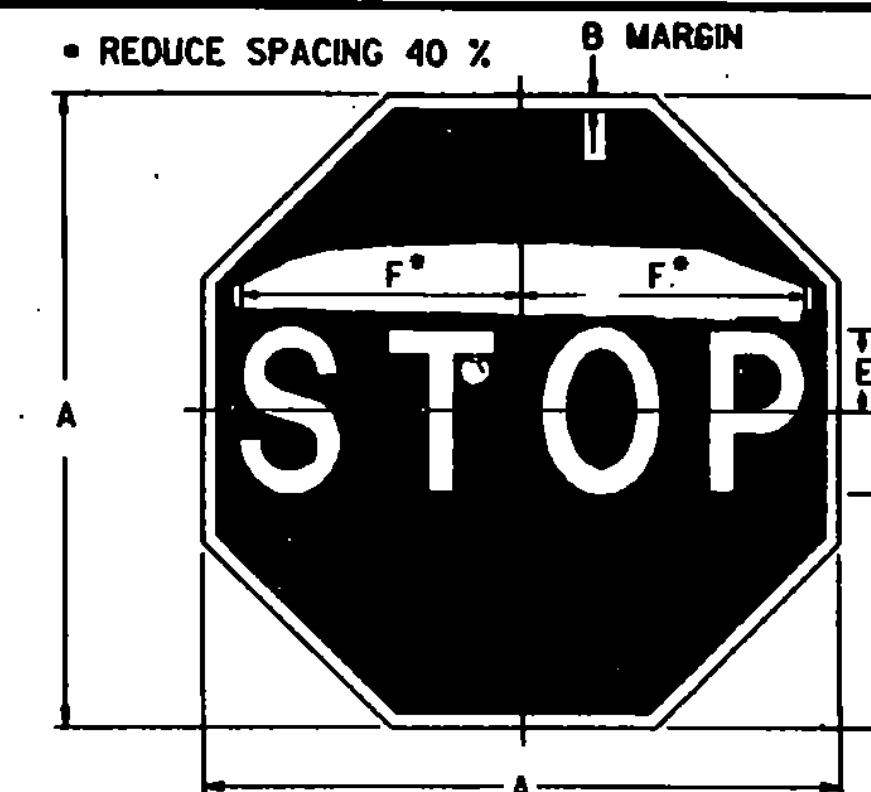
COLORS
CIRCLE AND DIAGONAL - RED (REFL)
SYMBOL AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

SIGN	DIMENSIONS (INCHES)										
MIN.	18	3/8	3/8	7 3/8	6 3/8	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		



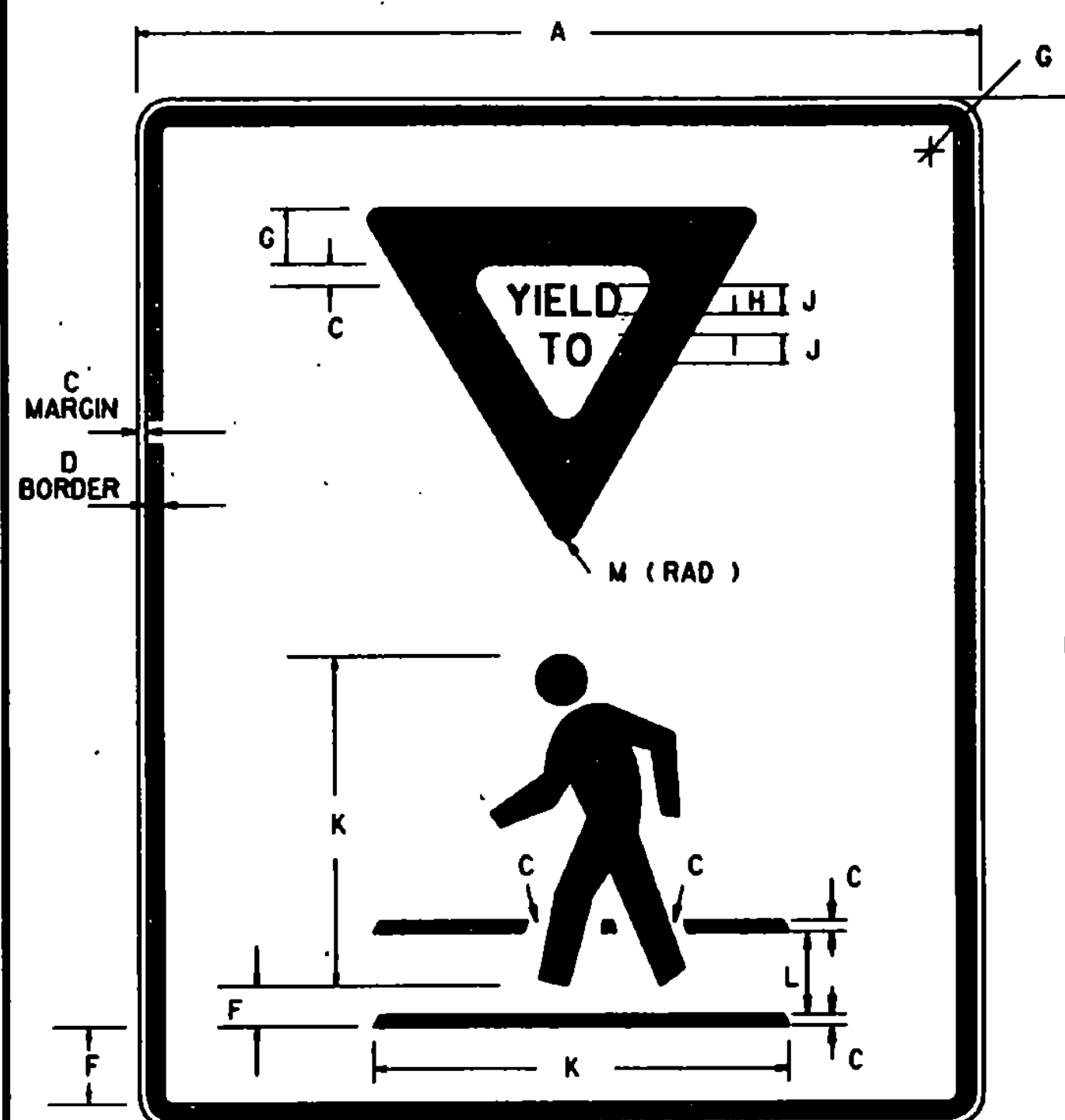
COLORS
SYMBOL - RED (REFL)
LEGEND AND BACKGROUND - WHITE (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)											
MIN. AND STD.	30	6 1/2	40	2	5	14 1/2	12 1/2	9 3/4	10	1 1/8	7 3/8	
EXPWY.	36	7 1/2	50	2 1/2	6	17 1/2	15	12	12 3/8	2 1/4	8 1/8	
SPECIAL	48	11	60	3	8	23 1/2	20	14 1/2	15	3	11 1/4	



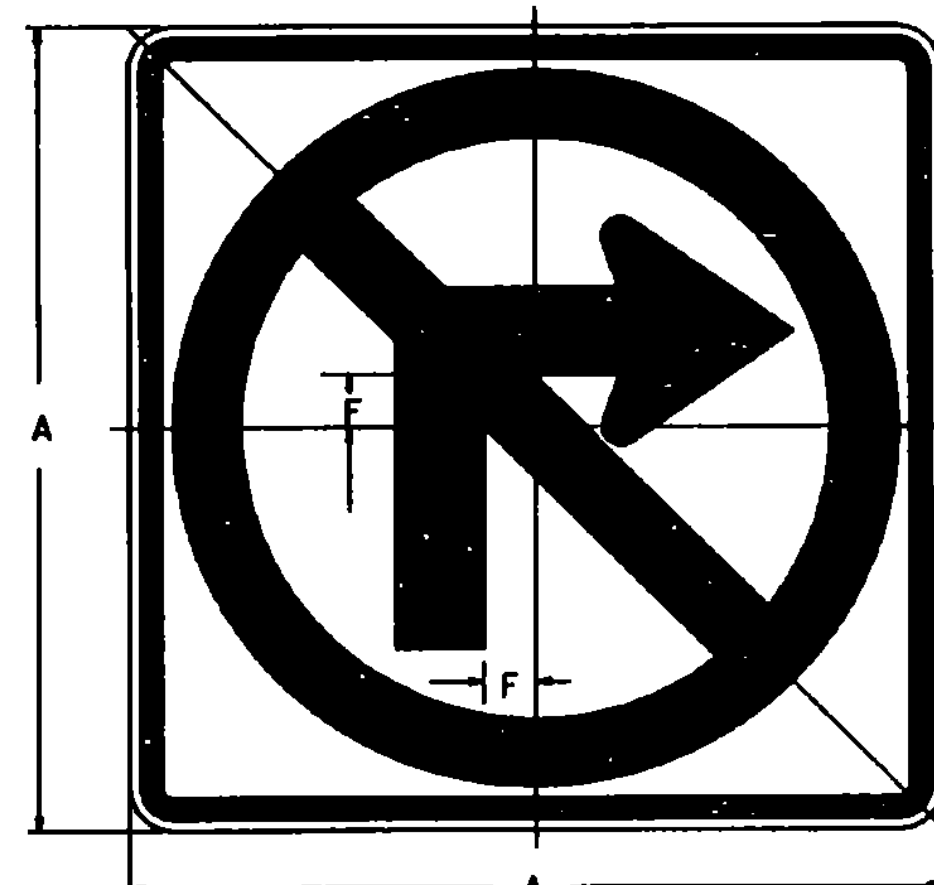
COLORS
LEGEND - WHITE (REFL)
BACKGROUND - RED (REFL)
ENCAPSULATED LENS

SIGN	DIMENSIONS (INCHES)					
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

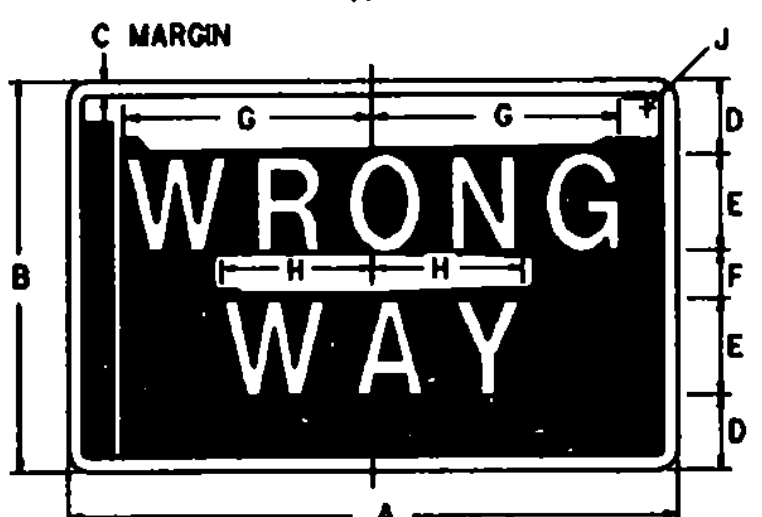


COLORS
LEGEND, SYMBOL, BORDER - BLACK
BACKGROUND - WHITE (REFL)
TRIANGLE - RED (REFL)

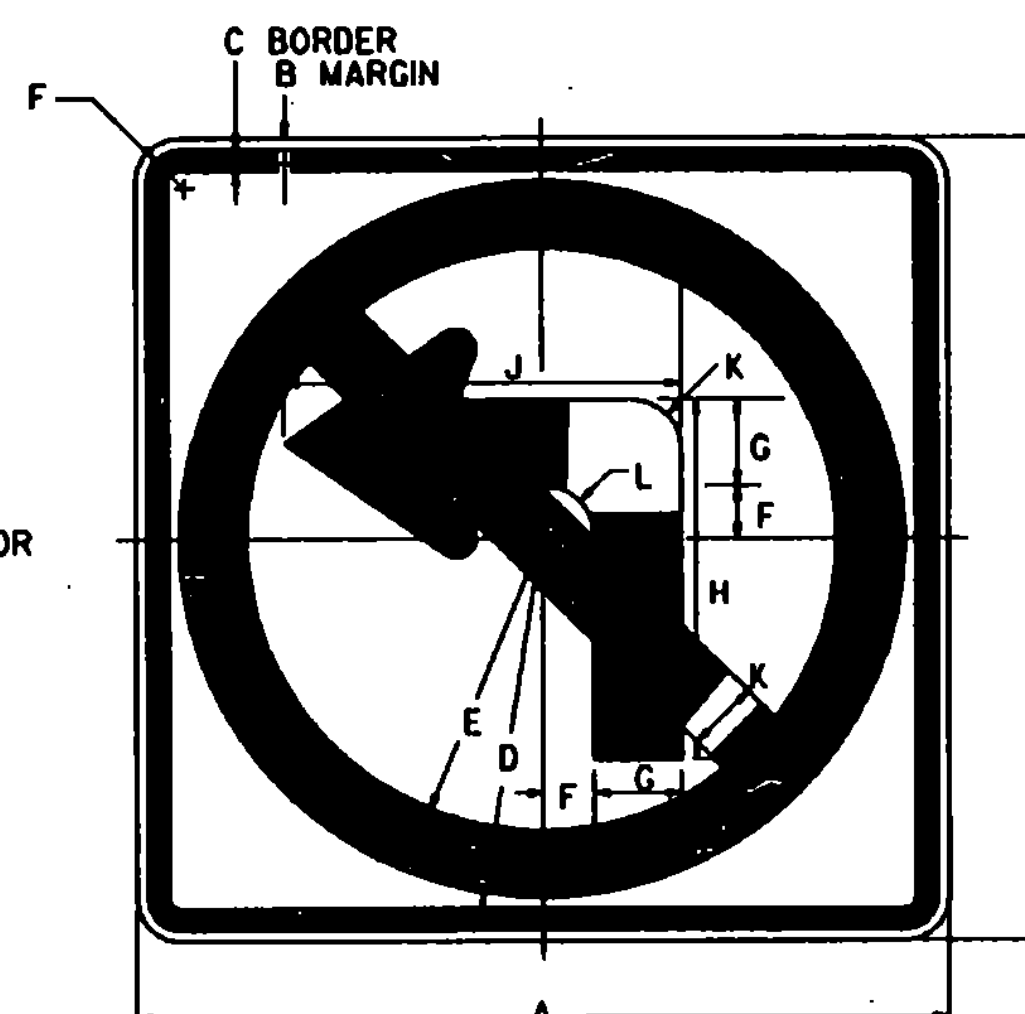
SIGN	DIMENSIONS (INCHES)												
SMALL	18	24	3/8	3/8	11	3/4	1 1/8	3/8	1 1/2	9	1 3/4	1/4	
LARGE	24	30	1/2	1 1/8	13 3/4	1 1/8	1 1/2	3/4	2	11 1/4	2 3/8	3/8	



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

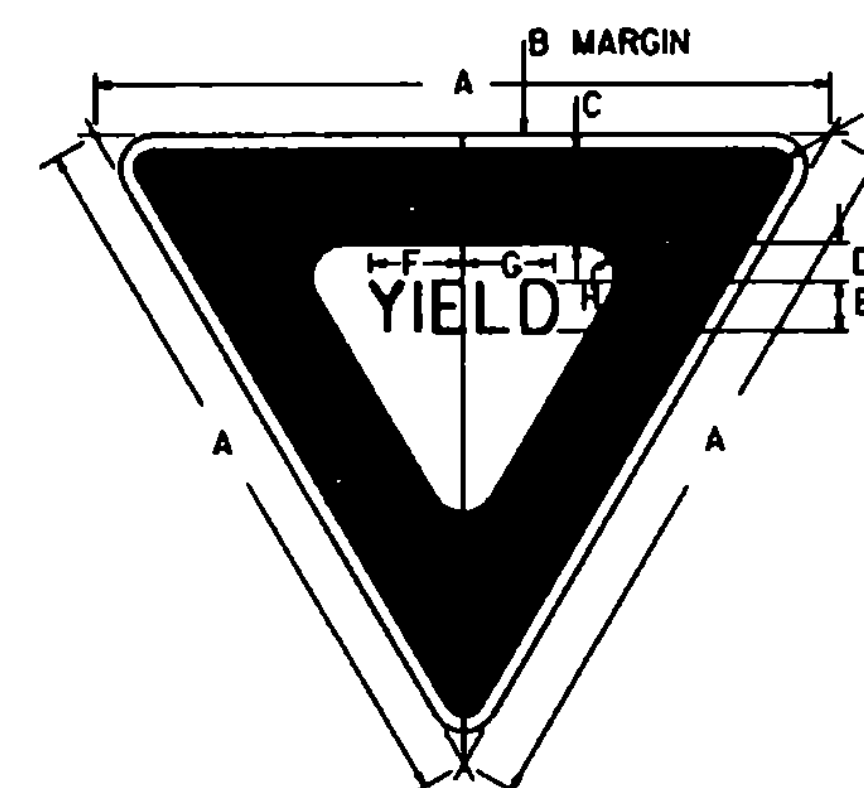


SIGN	DIMENSIONS (INCHES)									
MIN.	30	18	3/8	3	50	2	8 1/8	6 1/8	1 1/2	
STD.	36	24	3/4	4 1/2	60	3	13 3/8	8 3/8	1 1/2	
SPECIAL	42	30	3/4	5	80	4	17 3/4	10 3/4	1 1/2	



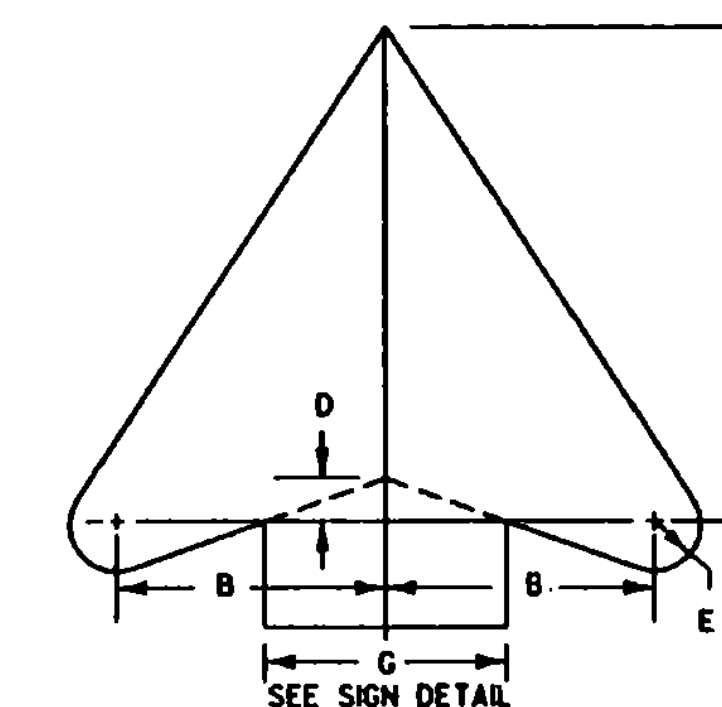
COLORS
CIRCLE AND DIAGONAL - RED (REFL)
ARROW AND BORDER - BLACK (NON - REFL)
BACKGROUND - WHITE (REFL)

SIGN	DIMENSIONS (INCHES)										
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 3/8	10 3/8	1 3/8	3 3/8	13 3/8	1 3/8	2 1/2	3/8
EXPWY.	36	3/8	3/8	15 3/4	12 3/4	2 1/4	3 3/4	15 3/4	1 3/4	3	3/4
SPECIAL	48	3/4	1 1/4	21	17	3	5	21	23	4	1



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

SIGN	DIMENSIONS (INCHES)											
BIKE	24	3/8	3	1 1/8	2C	3 1/4	3	3/8	1 1/2			
MIN.	30	3/8	4	1 1/4	2 1/2	3 1/8	3 3/8	3/8	1 1/2			
STD.	36	3/4	5	2	3C	4 1/8	4 1/8	1 1/4	2			
EXPWY.	48	1	6	2 1/4	4C	6 1/4	5 3/8	2	3			
SPECIAL	60	1 1/2	8	3 1/2	5C	7 3/8	7 1/4	2 1/2	4			



ARROW HEAD	DIMENSIONS (INCHES)				
SIZE	B	C	D	E	
MIN. AND STD.	24x24	2 3/8	5 1/8	3/8	1 1/2
SPECIAL	30x30	3 3/8	6 3/8	1 1/2	3/8
EXPWY.	36x36	4 3/8	7 3/8	3/8	3/4
SPECIAL	48x48	5 3/4	10 3/8	3/4	1

COLORS:

THE REGULATORY SIGNS SHOWN ON THIS SHEET SHALL BE AS DETAILED FOR EACH SIGN. 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 REGULATORY SIGNS SHOWN ON THIS SHEET MAY BE ANY FOLLOWING OF THE MINIMUM THICKNESS NOTED.

24" x 24"	24" x 30"	36" x 24"	36" x 36"	48" x 24"	48" x 36"	48" x 48"	60" x 48"
12" x 12"	12" x 18"	18" x 18"	30" x 30"	30" x 30"	30" x 30"	30" x 30"	30" x 30"
0.060"	0.060"	0.060"	0.060"	0.060"	0.060"	0.060"	0.060"
1/8" GAGE	1/8" GAGE	1/8" GAGE	1/8" GAGE	1/8" GAGE	1/8" GAGE	1/8" GAGE	1/8" GAGE

FLAT SHEET ALUMINUM
HIGH DENSITY OVERLAP PLYWOOD
GALVANIZED FLAT SHEET STEEL

ENCAPSULATED LENS REFLECTIVE SHEETING SHALL BE USED FOR THE SIGN BACKGROUND WHERE NOTED.

THE BLACK PORTIONS OF THE SIGNS MAY BE LETTERING FILM, SILK SCREENING OR HAND PAINTED. WHEN HAND PAINTED, POOR WORKMANSHIP SHALL BE CAUSE FOR REJECTION.

SPECIFICATIONS:

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

TEXT DESIGN:

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

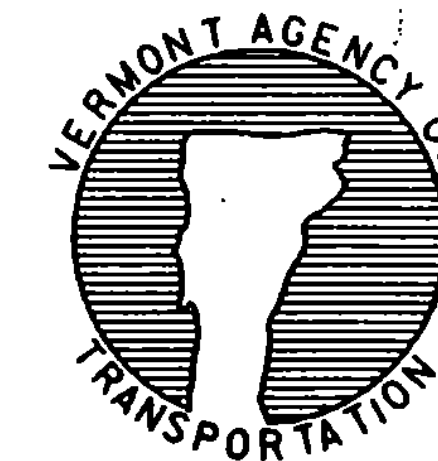
REVISIONS AND CORRECTIONS

APPROVED

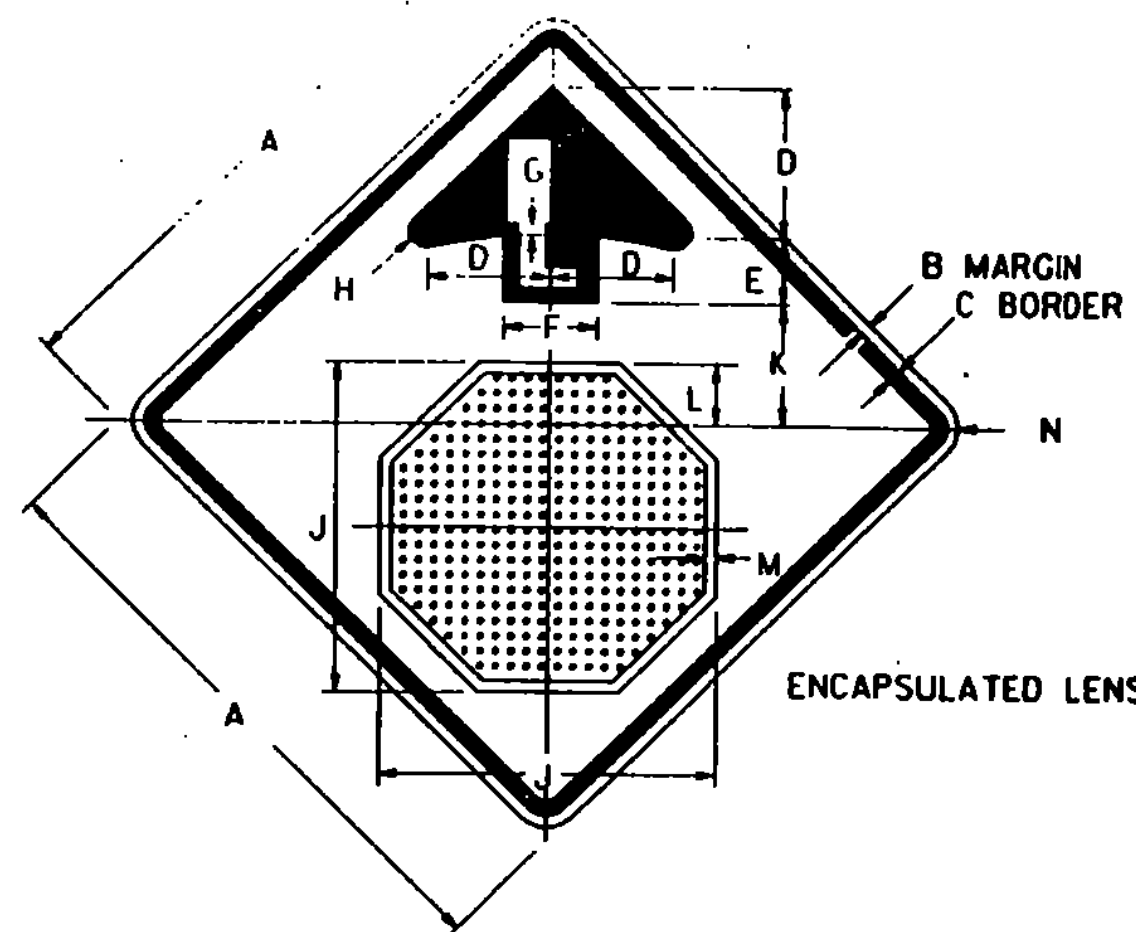
OCT. 30, 1987
DATE

David B. Kelley
CHIEF ENGINEER
Arthur J. Ross
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION
Charles B. MacArthur
TRAFFIC AND SAFETY ENGINEER

REGULATORY SIGN DETAILS



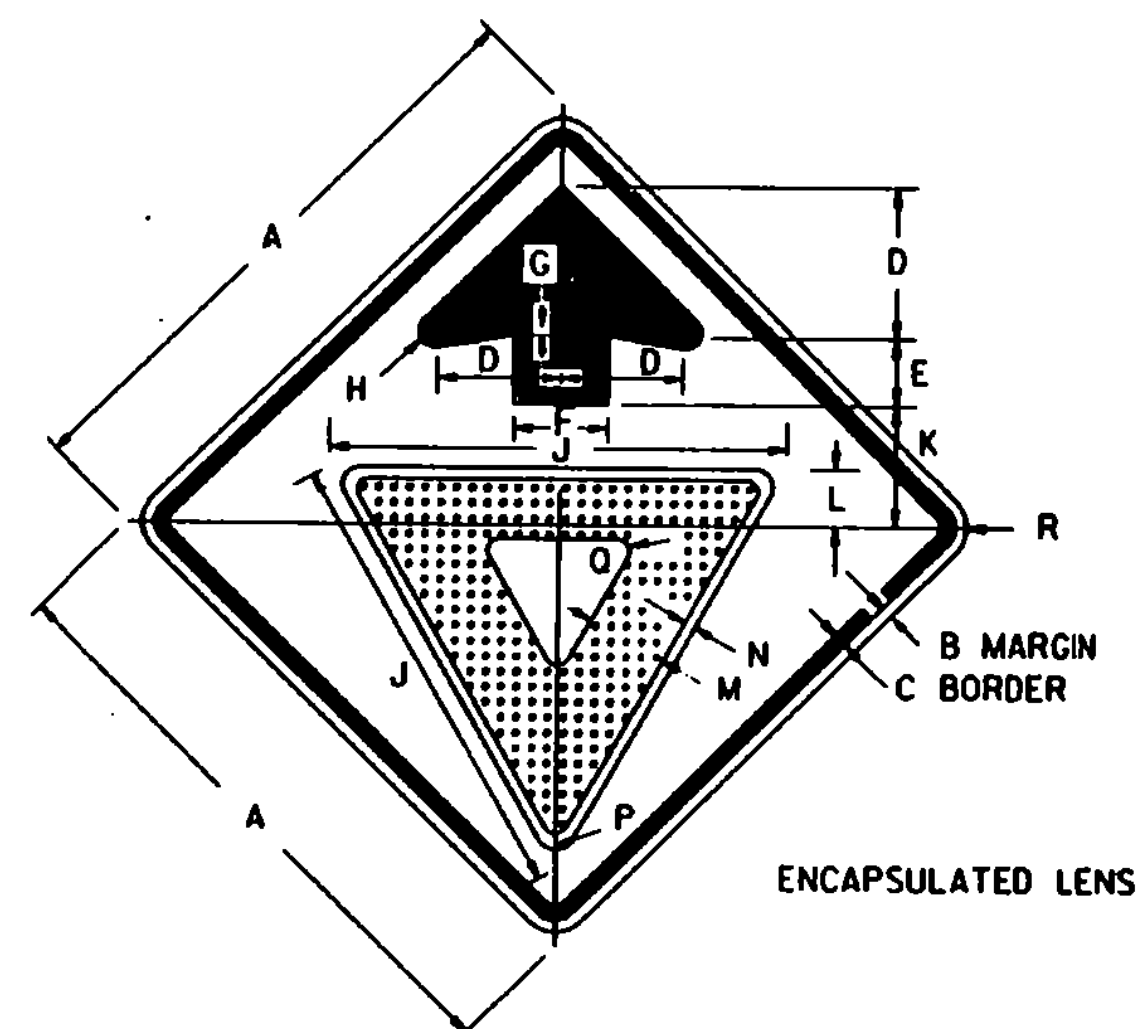
STANDARD E-143



COLORS

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

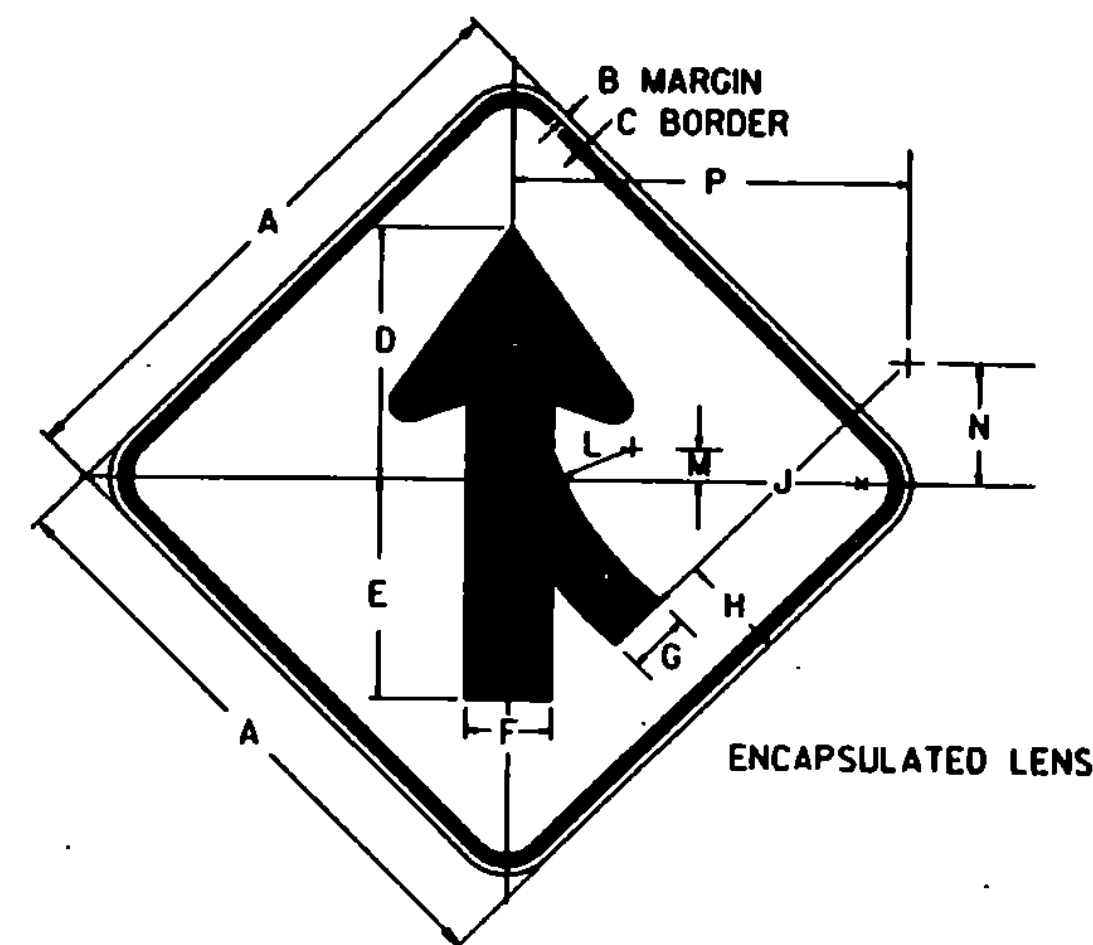
SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
MIN.	30	1/2	3/4	7 1/2	3 3/4	5	3/8	3/8	15 3/4	6 1/4	2 1/2	1/2	1 1/2	1 1/2
STD.	36	3/8	1/2	9	4 1/2	6	3/4	3/8	19	7 1/2	3 1/2	3/8	2 1/4	2 1/4
SPECIAL	48	3/4	1 1/4	12	6	8	1	1 1/2	25 3/4	10	4 1/2	3/4	3	3



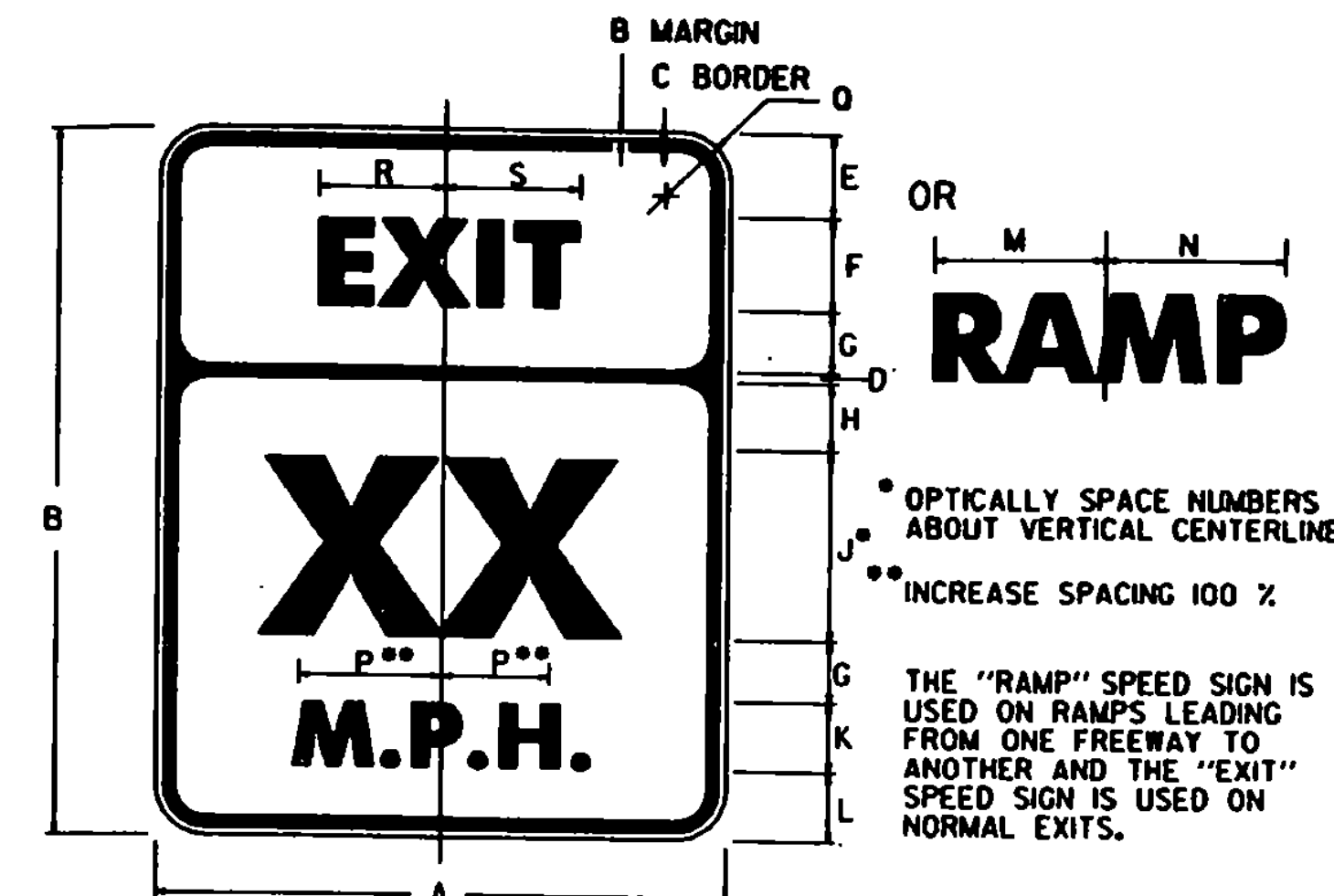
COLORS

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

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



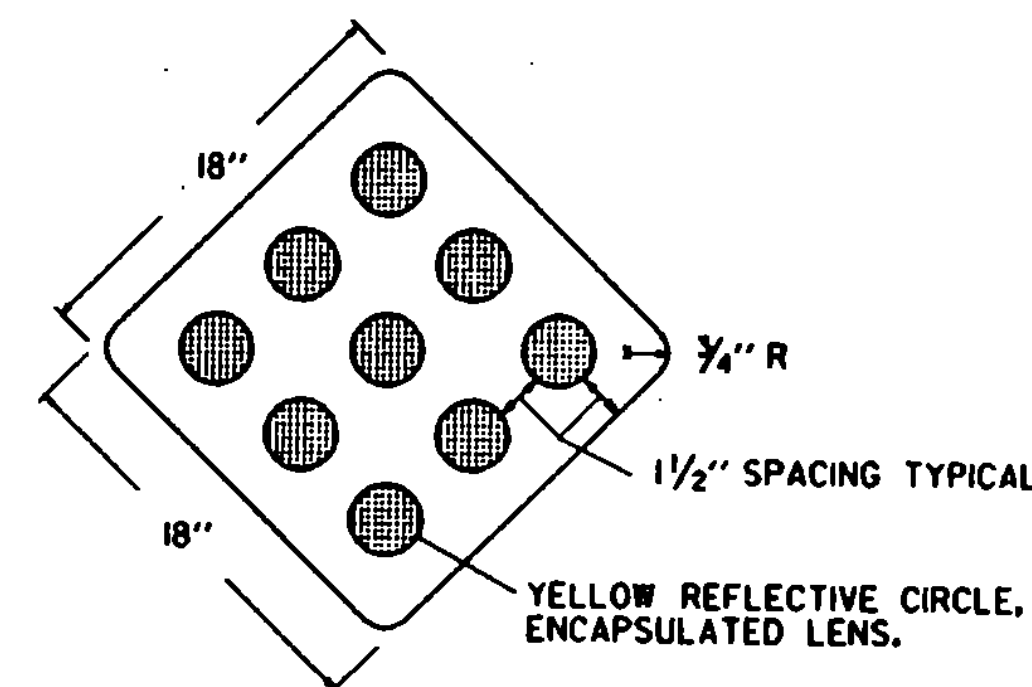
SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
MIN.	24	3/8	3/8	10 1/4	8 1/4	3 1/2	2 1/4	4 1/4	22 1/4	1 1/2	6 3/8	2 1/8	10 3/8	22 3/8
STD.	30	1/2	3/4	13	11	4 3/8	3	5 1/4	28	1 3/8	8	3	13	27 1/4
EXPWY.	36	3/8	1/2	15 3/4	13 3/4	5 1/4	3 3/8	6 3/8	33 3/8	2 1/4	9 3/8	4	15 3/8	33 3/8
FWY.	48	3/4	1 1/4	20 3/4	17 3/4	7	4 3/8	8 3/8	45	3	12 3/8	5 1/4	20 3/4	44 3/8



* OPTICALLY SPACE NUMBERS ABOUT VERTICAL CENTERLINE
* INCREASE SPACING 100 %

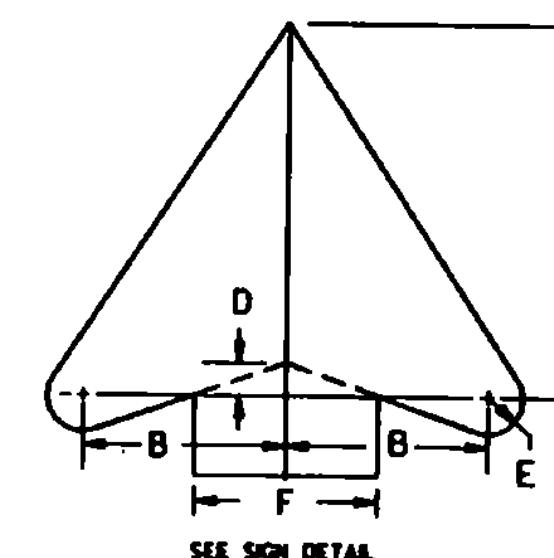
THE "RAMP" SPEED SIGN IS USED ON RAMP LEADING FROM ONE FREEWAY TO ANOTHER AND THE "EXIT" SPEED SIGN IS USED ON NORMAL EXITS.

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



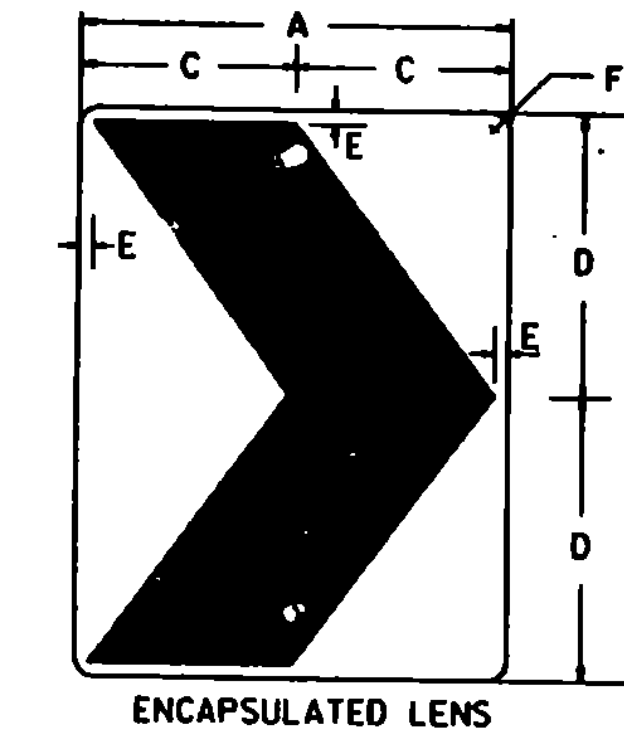
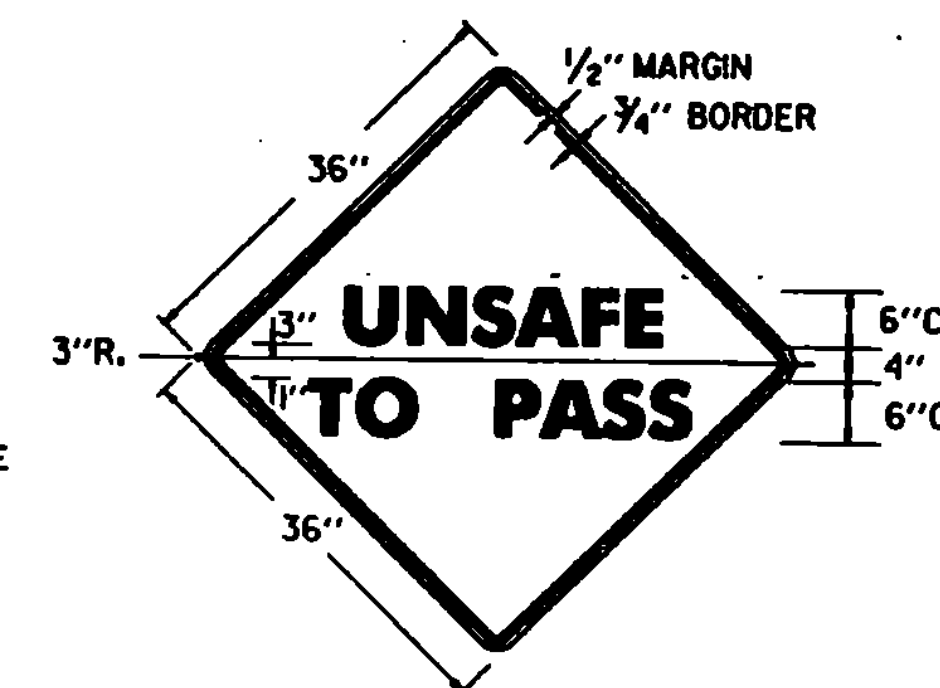
HAZARD MARKERS SHALL BE OF 0.060 FLAT SHEET ALUMINUM OR 18 GAGE GALVANIZED FLAT SHEET STEEL, WITH A NON-REFLECTIVE YELLOW BACKGROUND AND NINE 4" DIA. CIRCLES EVENLY SPACED WITH MATERIALS AS NOTED ABOVE.

SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
STD.	36	3/8	3/8	5C	2	2	11 1/2	11 1/2	9 1/8	9 1/8	10 1/4	10 1/4	6 3/8	6 3/8
FWY./EXP.	48	3/4	1 1/4	6C	3	3	13 1/2	13 1/2	11 3/8	11 3/8	12 1/4	12 3/4	8 3/8	8 3/8

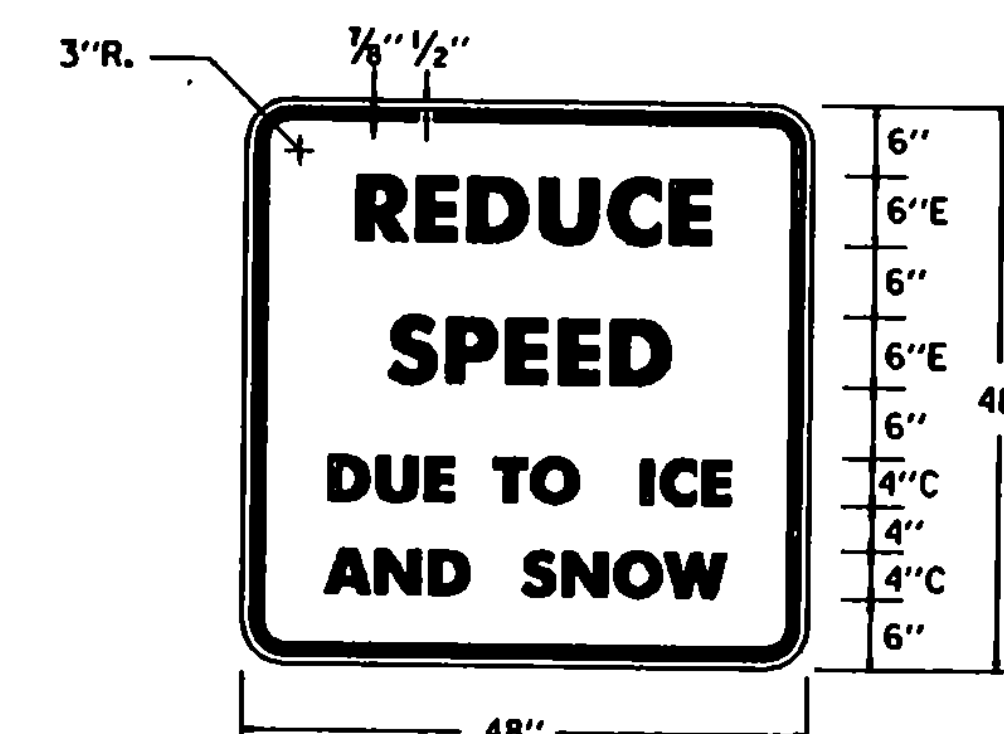


SEE SIGN DETAIL

ARROW HEAD	DIMENSIONS (INCHES)				
	SIZE	B	C	D	E
MIN. AND STD.	24x24	4	7 1/8	9 1/8	11 1/8
SPECIAL	30x30	5	8 3/8	11 1/8	13 1/8
EXPWY.	36x36	6	10 3/8	13 1/8	15 1/8
SPECIAL	48x48	8	14 3/8	17 1/8	19 1/8



SIGN	DIMENSIONS (INCHES)					
	A	B	C	D	E	F
MIN.	12	18	6	9	1 1/2	1 1/2
STD.	18	24	9	12	3/4	1 1/2
SPECIAL	24	30	12	15	3/4	1 1/2
EXPWY.	30	36	15	18	1	1 1/2
FWY.	36	48	18	24	1 1/4	2 1/4



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"	30" x 30"	36" x 36"	48" x 48"
FLAT SHEET ALUMINUM	0.060"	0.080"	0.100"	0.125"
HIGH DENSITY OVERLAIN PLYWOOD	1/8"	3/16"	1/4"	3/8"
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".

REVISIONS AND CORRECTIONS

APPROVED

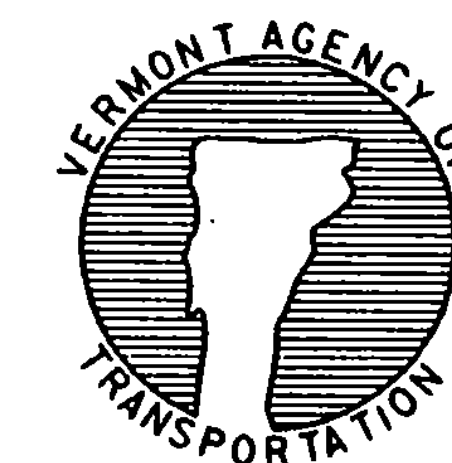
OCT. 30, 1987
DATE

David B. Kelly
CHIEF ENGINEER

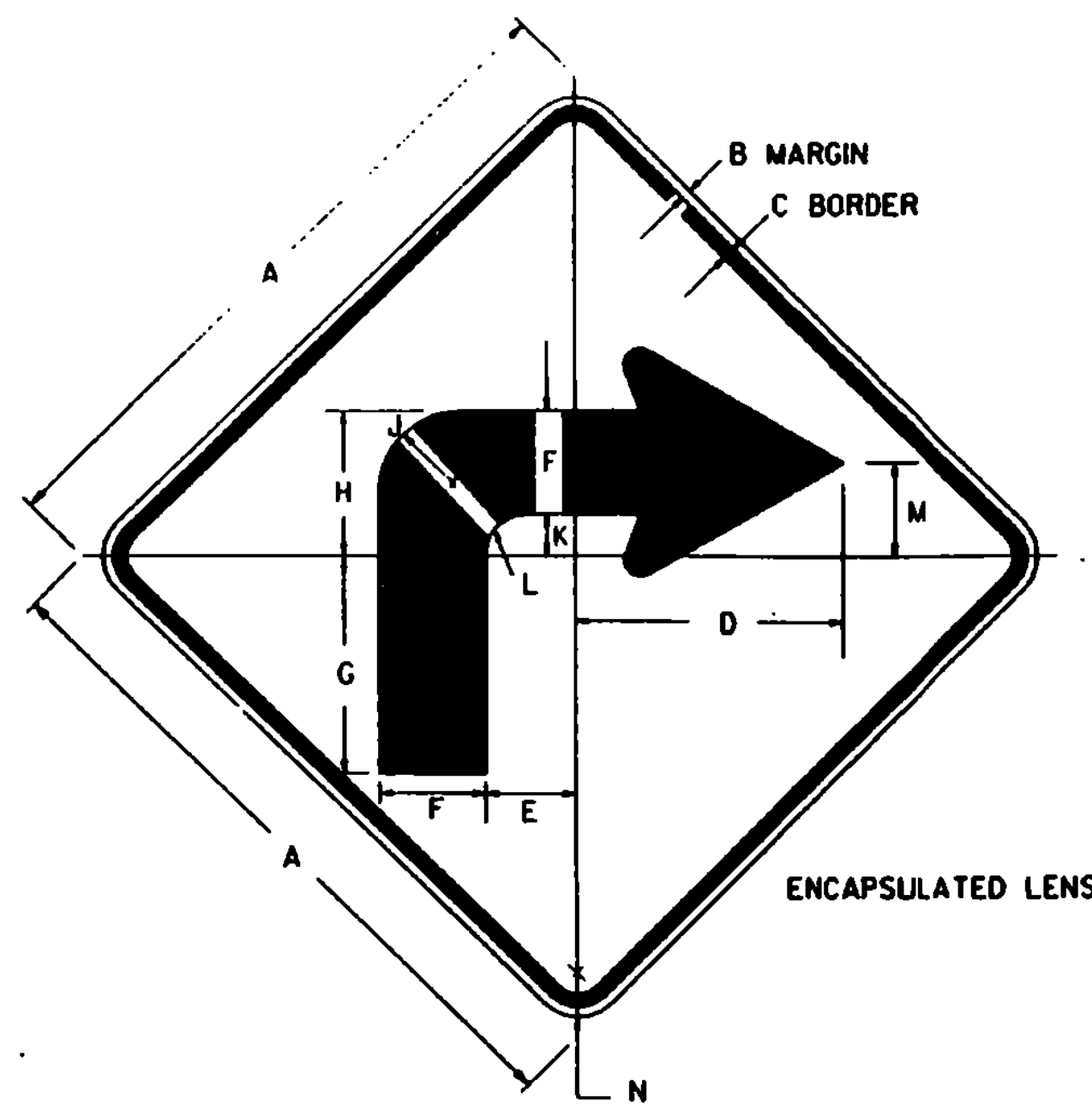
Arthur J. Goss
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION

Stephen B. MacArthur
TRAFFIC AND SAFETY ENGINEER

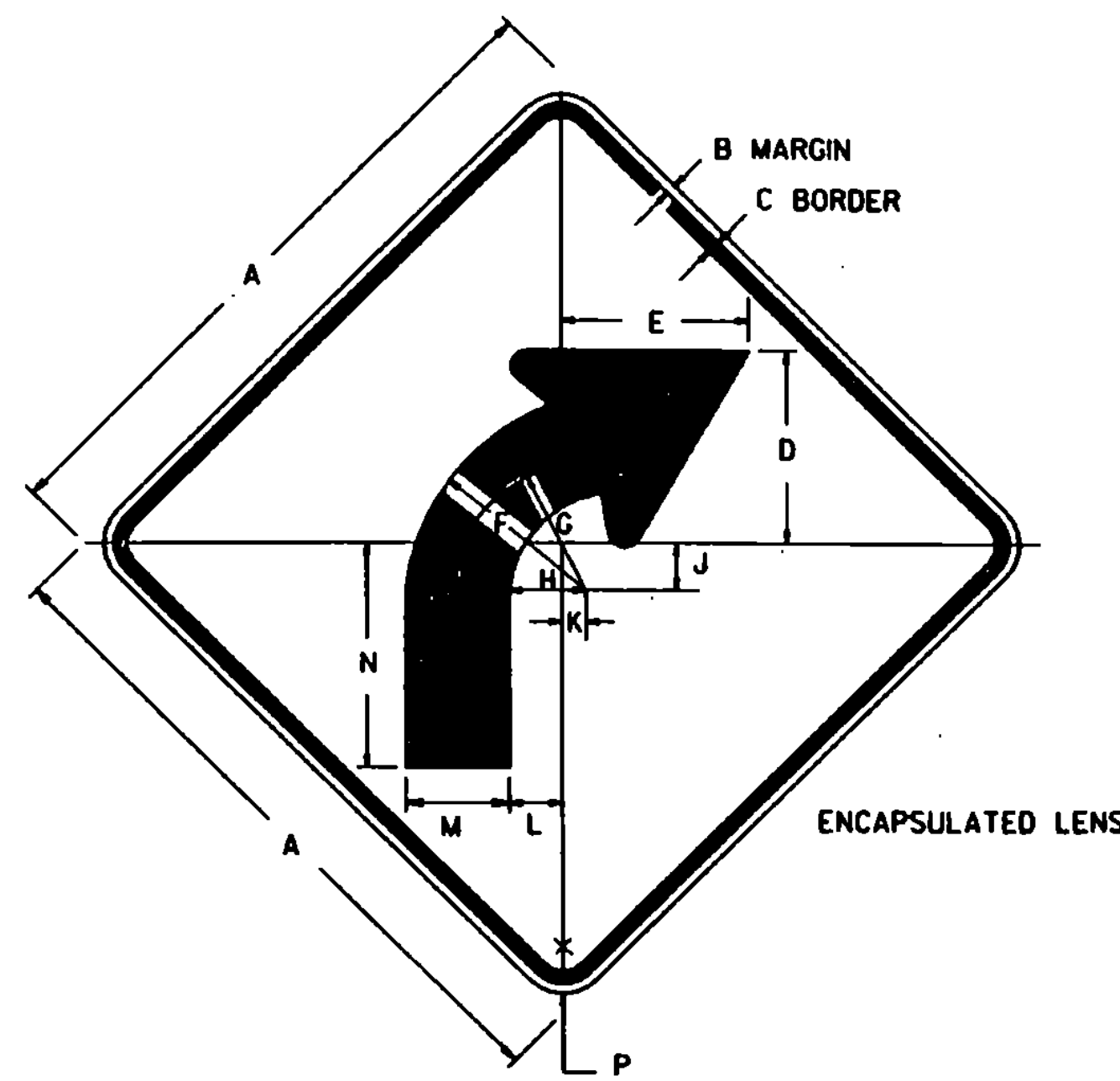
WARNING SIGN DETAILS



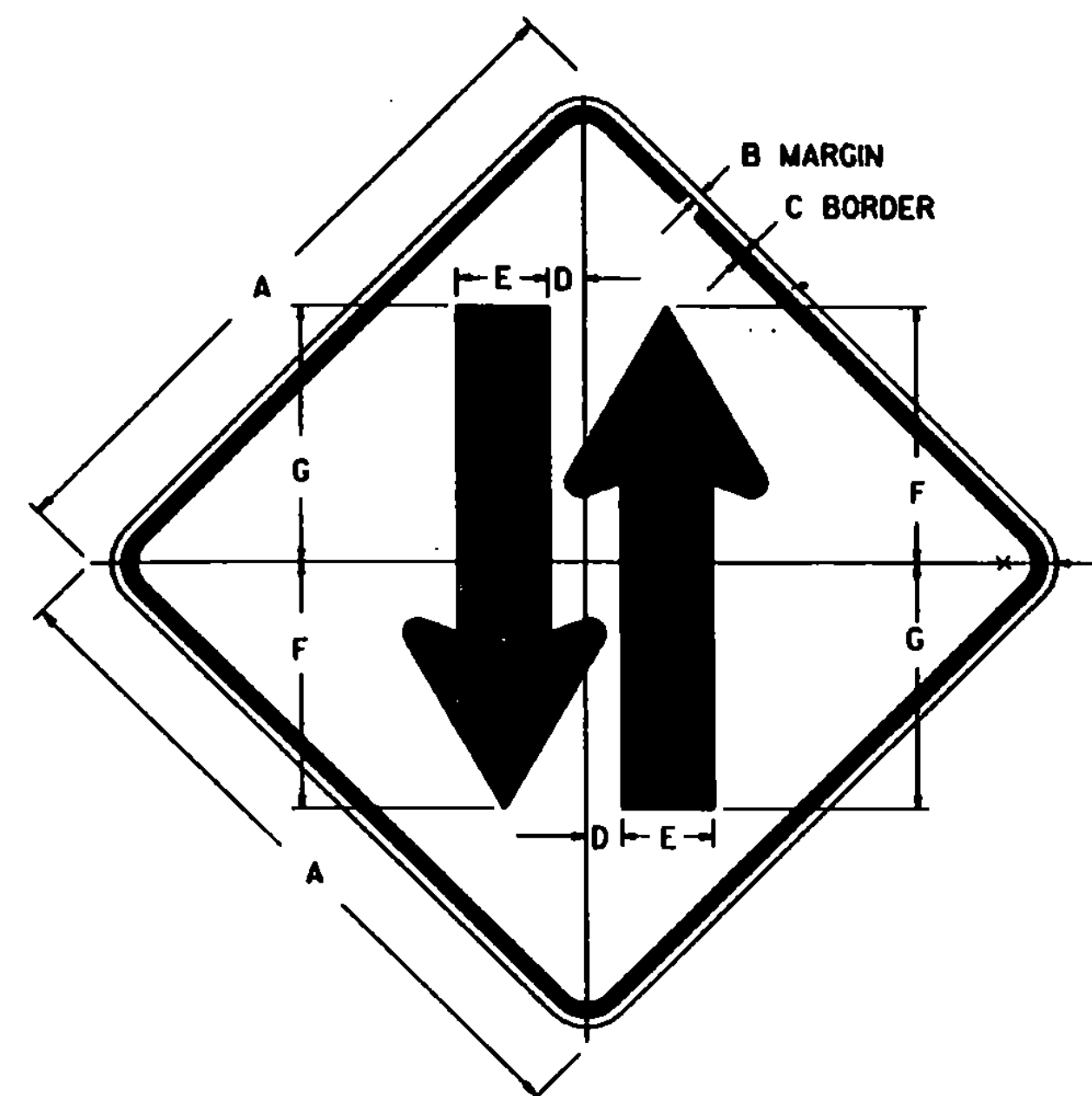
STANDARD
E-150



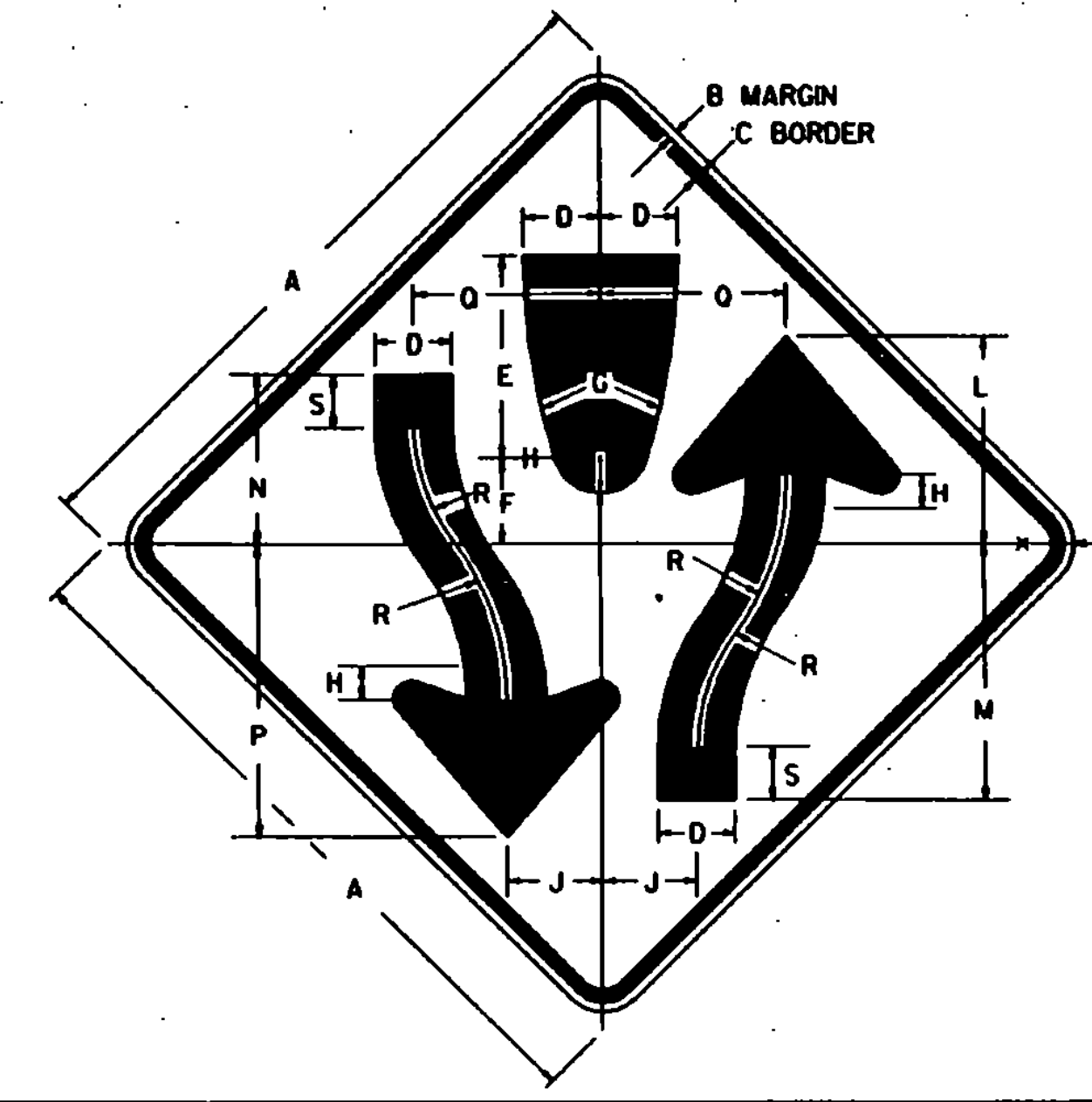
SIGN	DIMENSIONS (INCHES)												
	A	B	C	D	E	F	G	H	J	K	L	M	N
BIKE	18	3/8	5/8	7/4	2 1/4	2 5/8	5 3/4	3 3/4	1 1/8	1	3/8	2 1/2	1 1/2
MIN.	24	3/8	5/8	9/8	3	3 1/2	7 1/8	5	2 1/2	1 1/2	1 3/8	3 1/4	1 1/2
STD.	30	1/2	3/4	12	3 3/4	4 3/8	9 1/8	6 1/4	3	1 1/8	1	4 1/8	1 7/8
EXPWY.	36	5/8	3/4	14 3/8	4 1/2	5 1/4	11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



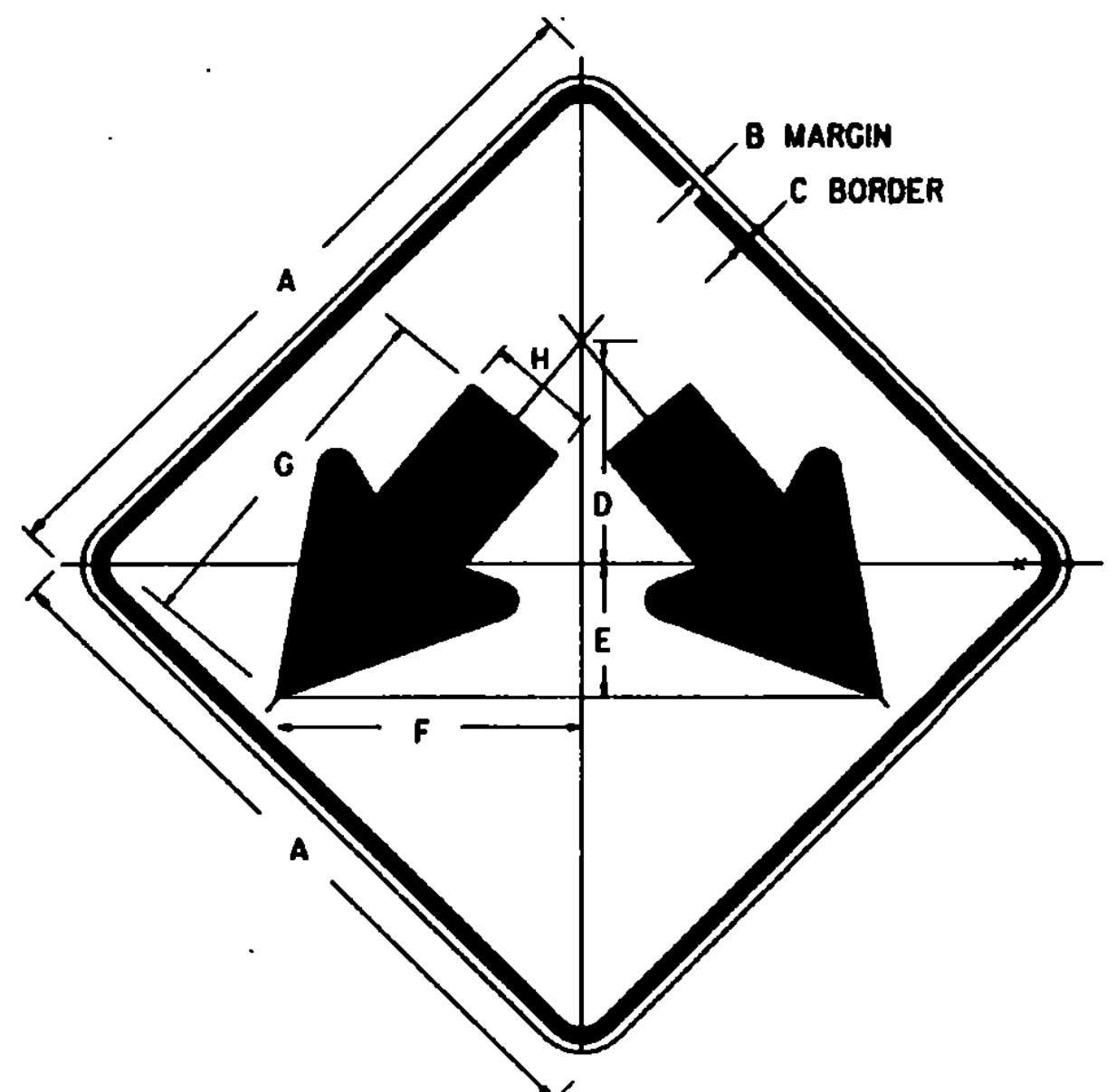
SIGN	DIMENSIONS (INCHES)													
	A	B	C	D	E	F	G	H	J	K	L	M	N	P
BIKE	18	3/8	5/8	5 3/8	5 1/2	6	4 3/4	3 3/8	1 3/4	1 1/4	2	2 5/8	6 1/4	1 1/2
MIN.	24	3/8	5/8	7 1/8	7 1/4	8	6 1/4	4 1/2	2 11/32	1 3/4	2 3/4	3 1/2	8 1/4	1 1/2
STD.	30	1/2	3/4	8 3/8	9 1/8	10	7 1/8	5 5/8	2 5/16	2 3/8	3 1/8	4 3/8	10 5/8	1 7/8
EXPWY.	36	5/8	3/4	10 5/8	10 7/8	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 11/16	3 3/2	5 1/2	7	16 1/2	3



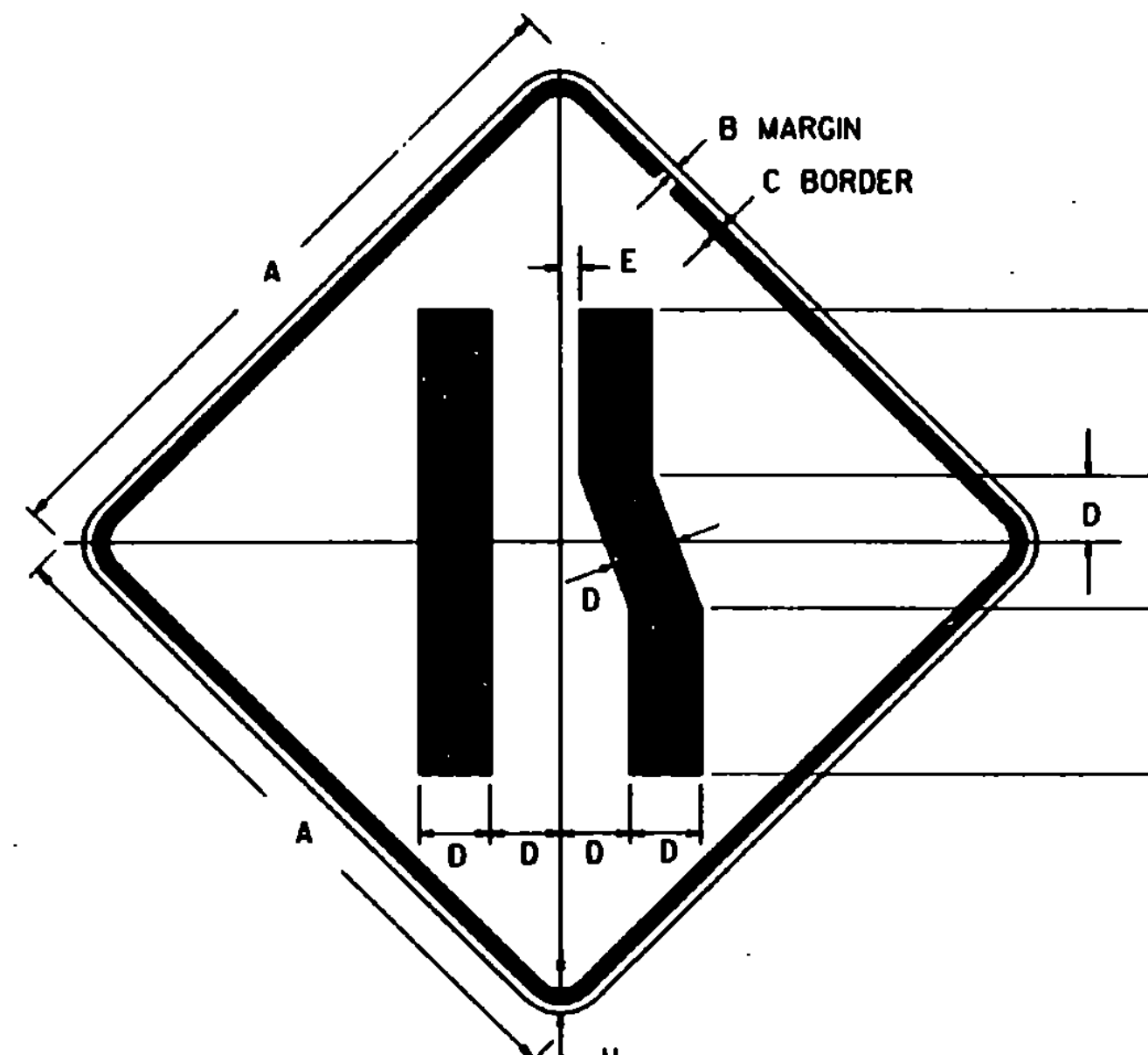
SIGN	DIMENSIONS (INCHES)							
	A	B	C	D	E	F	G	H
MIN.	24	3/8	5/8	2	3	9	8 1/2	1 1/2
STD.	30	1/2	3/4	2 1/8	3 3/4	11 1/4	10 5/8	1 7/8
EXPWY.	36	5/8	3/4	2 5/8	4 1/2	13 1/2	12 3/4	2 1/4
SPECIAL	48	3/4	1 1/4	3 3/8	6	18	17	3



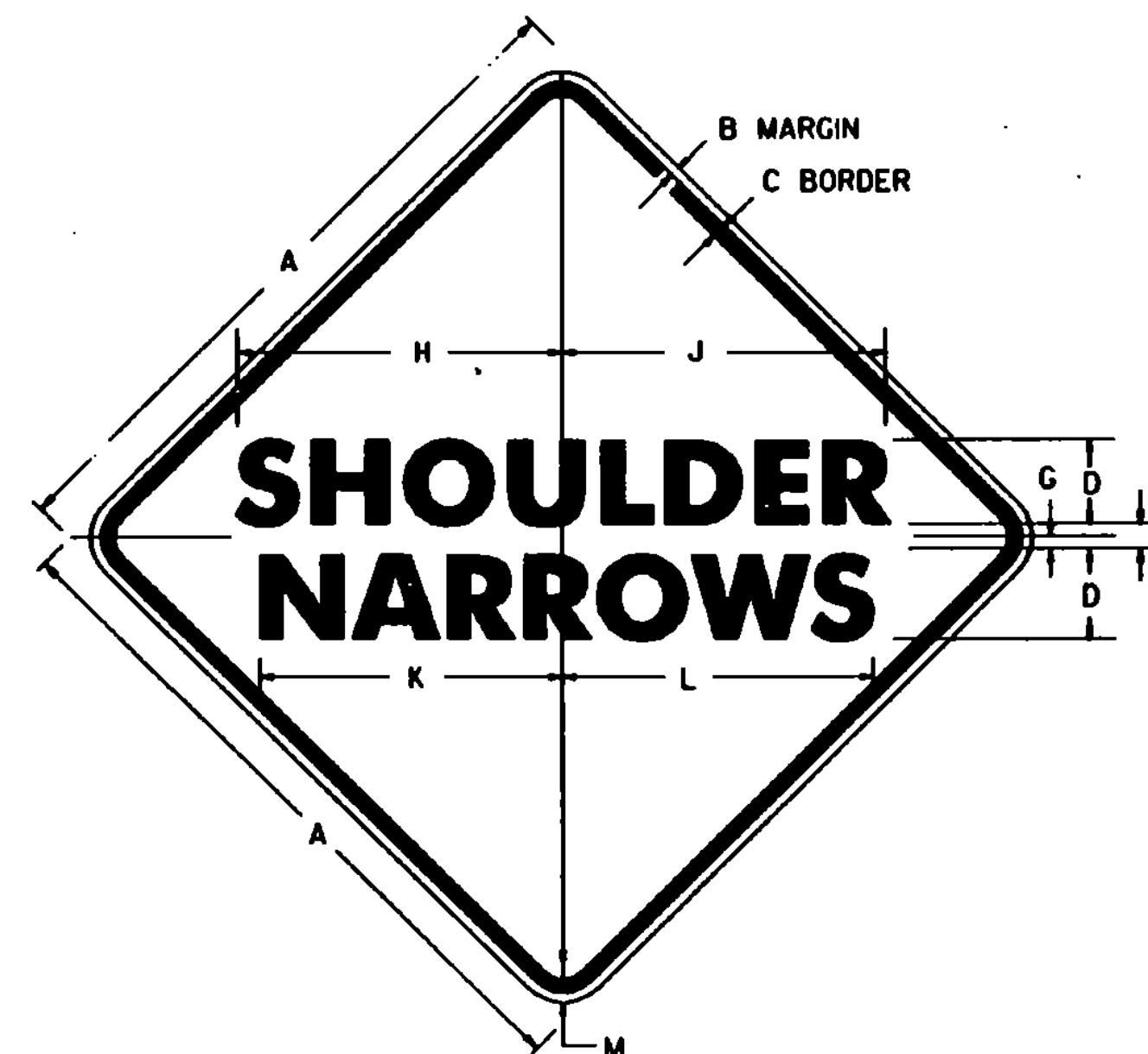
SIGN	DIMENSIONS (INCHES)																
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	O	R	S
MIN.	30	1/2	3/4	3 3/8	8 3/8	4 1/8	25	1 1/16	4 1/8	1 7/8	10	11 5/8	7 1/8	13 1/16	7 7/8	8 3/8	2 1/16
STD. & EXPWY.	36	5/8	3/4	4	10	5	30	2	5	2 1/4	12	14	9 1/2	16 1/2	9 1/2	10	2 1/2
SPECIAL	48	3/4	1 1/4	5 1/4	13 3/8	6 3/8	39 3/8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



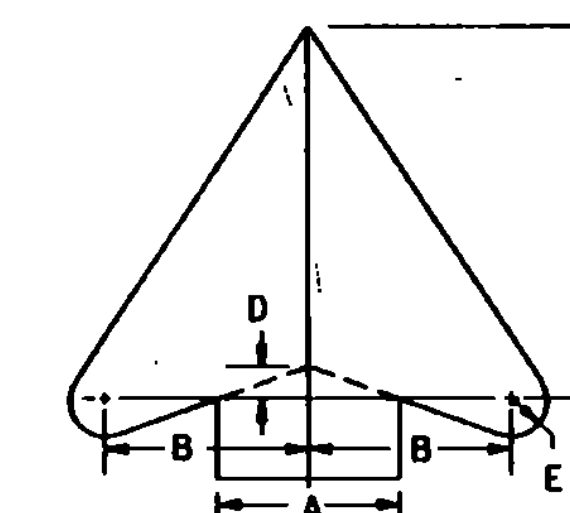
SIGN	DIMENSIONS (INCHES)								
	A	B	C	D	E	F	G	H	J
STD. & MIN.	24	3/8	5/8	8	4 1/8	9 3/4	11 5/8	3 3/8	1 1/2
SPECIAL	30	1/2	3/4	10	5 1/4	12 3/8	14 1/16	4	1 7/8
SPECIAL	36	5/8	7/8	12	6 1/8	14 5/8	17 1/2	4 3/4	2 1/4



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



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 11/16	13/16	17 5/8	18 1/4	2 1/4	
EXPWY.	48	3/4	1 1/4	7D	3 1/2	7D	1	23 3/16	23/16	27 1/2	27 3/8	3	



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	1/2	5/8
3 3/8	1 1/8	6 3/8	1/2	3/4
3 3/8	3 3/8	6 1/8	1/2	1 1/8
3 1/2	4	7 1/8	3/8	1 1/8
3 3/4	4 3/8	7 3/8	3/8	3/4
4	4 3/8	8 1/8	3/8	3/8
5 1/4	6	10 3/8	1 3/8	1 1/8
6	6 3/8	12 3/8	1 3/8	1 3/8
7	8	14 3/8	1 3/8	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.

	18" x 18"	24" x 24"	36" x 36"	48" x 48"
FLAT SHEET ALUMINUM	0.060"	0.080"	0.100"	0.125"
HIGH DENSITY OVERLAP PLYWOOD	1/2"	3/4"	3/4"	3/4"
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, 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".

REVISIONS AND CORRECTIONS

APPROVED

OCT. 30, 1987
DATE

Paul H. Kelley
CHIEF ENGINEER

William J. Goss
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION

Wendell R. MacArthur
TRAFFIC AND SAFETY ENGINEER

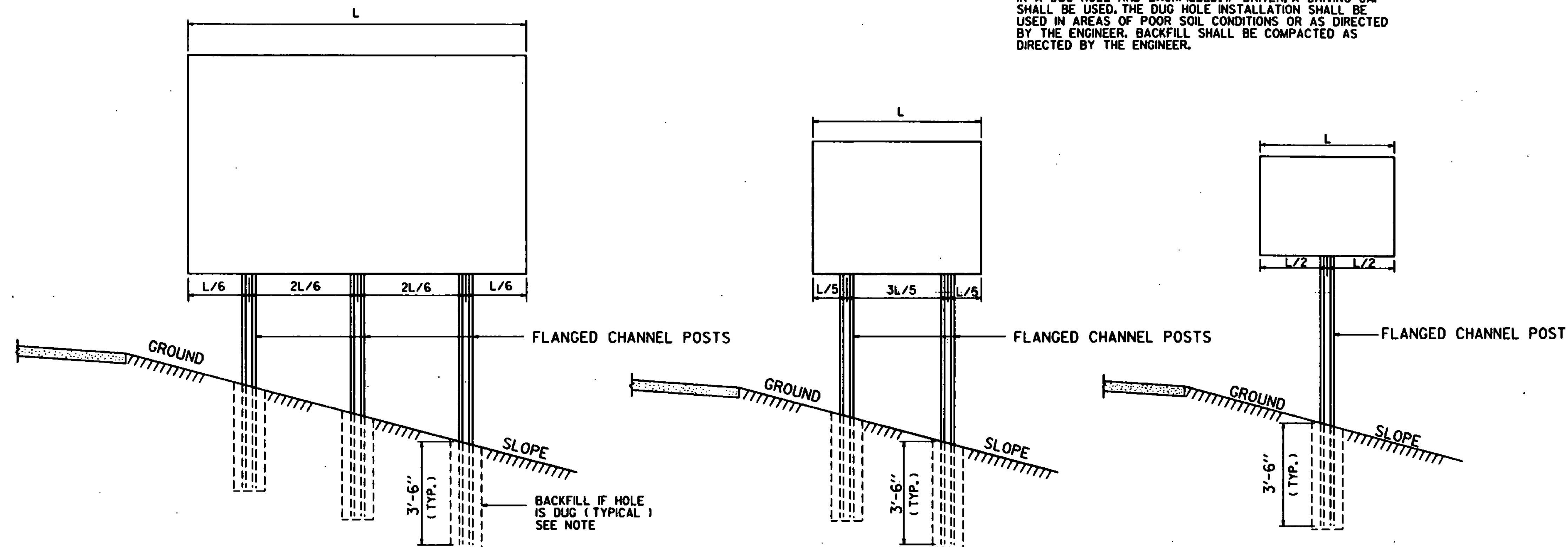
WARNING SIGN DETAIL



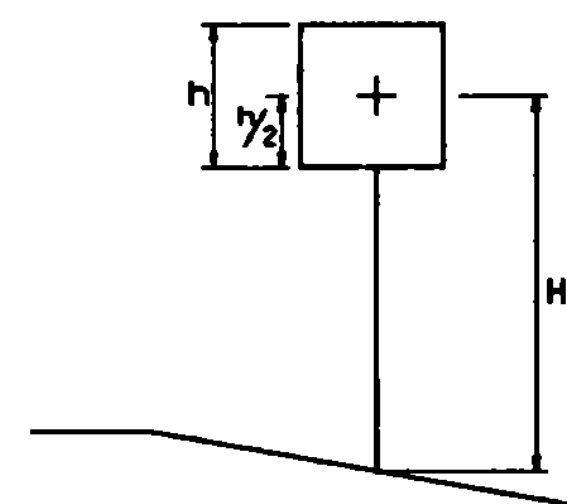
STANDARD
E-151

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 ENGINEER. BACKFILL SHALL BE COMPACTED AS DIRECTED BY THE ENGINEER.



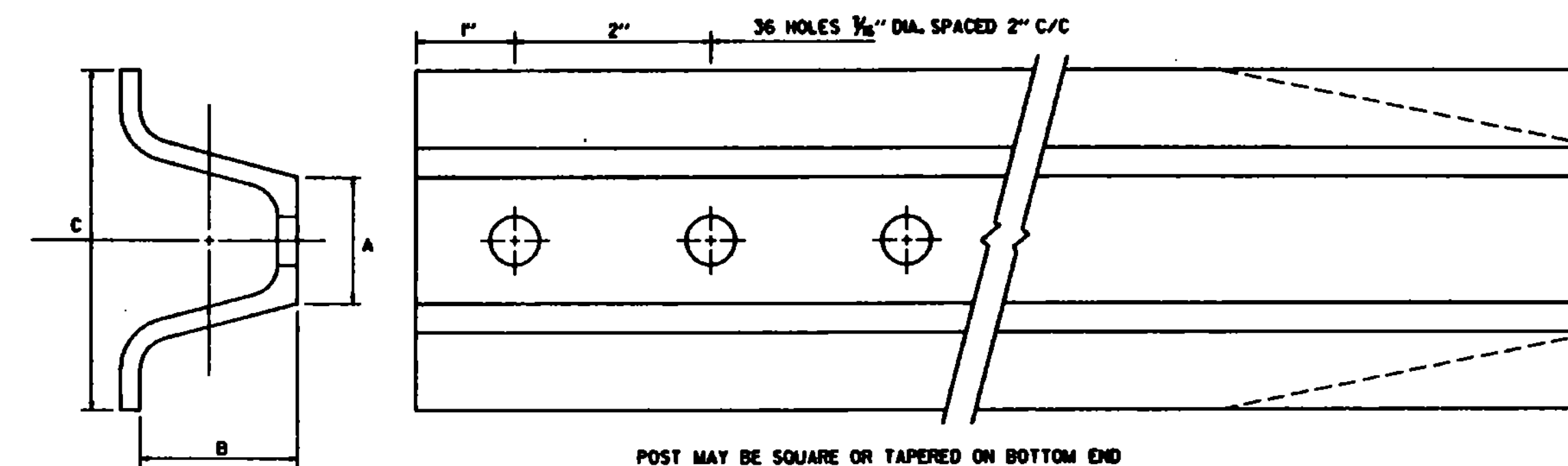
POST SPACING DETAILS



POST SELECTION CHART		
SIGN AREA (FT ²) x H (FT) (SV (SELECTION VALUE))		
POST SIZE	SV	DESIGN CRITERIA
2 LB/FT.	32	WIND SPEED = 60 MPH (10-YEAR MEAN RECURRENCE INTERVAL) WIND PRESSURE = 12 PSF STEEL MIN YIELD F _y = 50,000 PSI ALLOWABLE STRESS = (1.4) 0.55 F _y
2 1/2 LB/FT.	77	
3 LB/FT.	107	

POST SIZE POUNDS PER LINEAR FOOT	DIMENSIONS			PLASTIC SECTION MODULUS, Z
	A	B	C	
2	1 9/32"	1 3/64"	3 1/16"	0.26 IN. ³
2 1/2	1 9/32"	1 3/64"	3 1/16"	0.40 IN. ³
3	1 5/16"	1 1/8"	3 1/2"	0.53 IN. ³

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



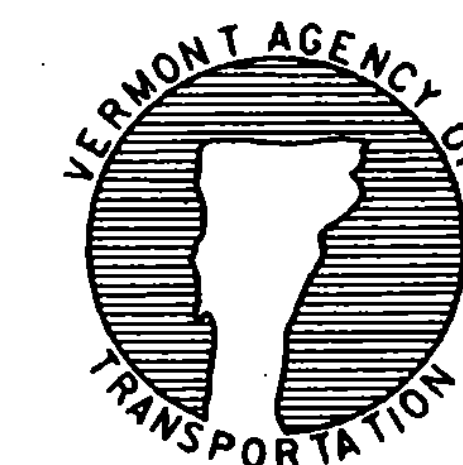
REVISIONS AND CORRECTIONS

APPROVED

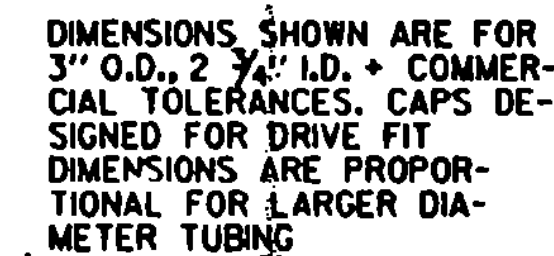
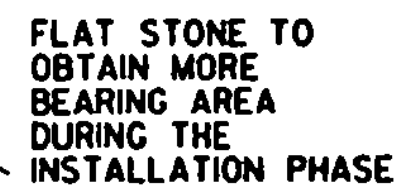
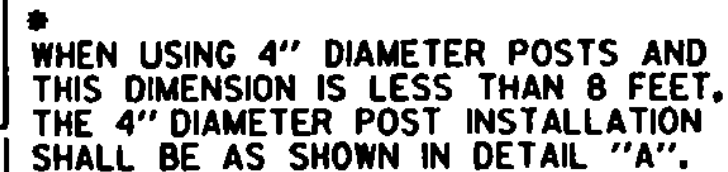
SEPT. 10, 1987
DATE

David B. Kelley
CHIEF ENGINEER
Arthur J. Goss
DIRECTOR OF PLANNING
AND PRE-CONSTRUCTION
Stephen B. MacArthur
TRAFFIC AND SAFETY ENGINEER

FLANGED CHANNEL STEEL SIGN POST



STANDARD
E-160



TUBULAR ALUMINUM POST

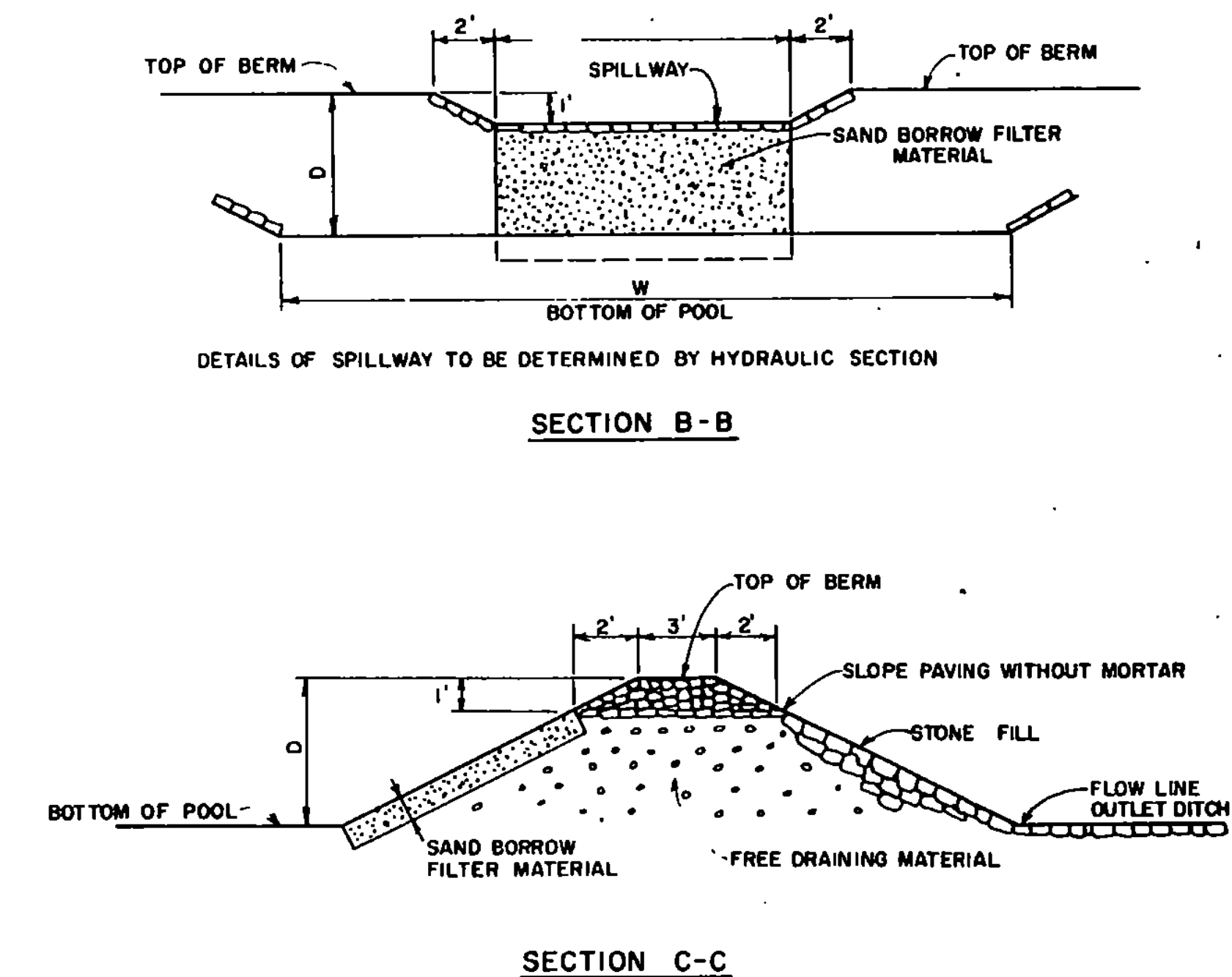
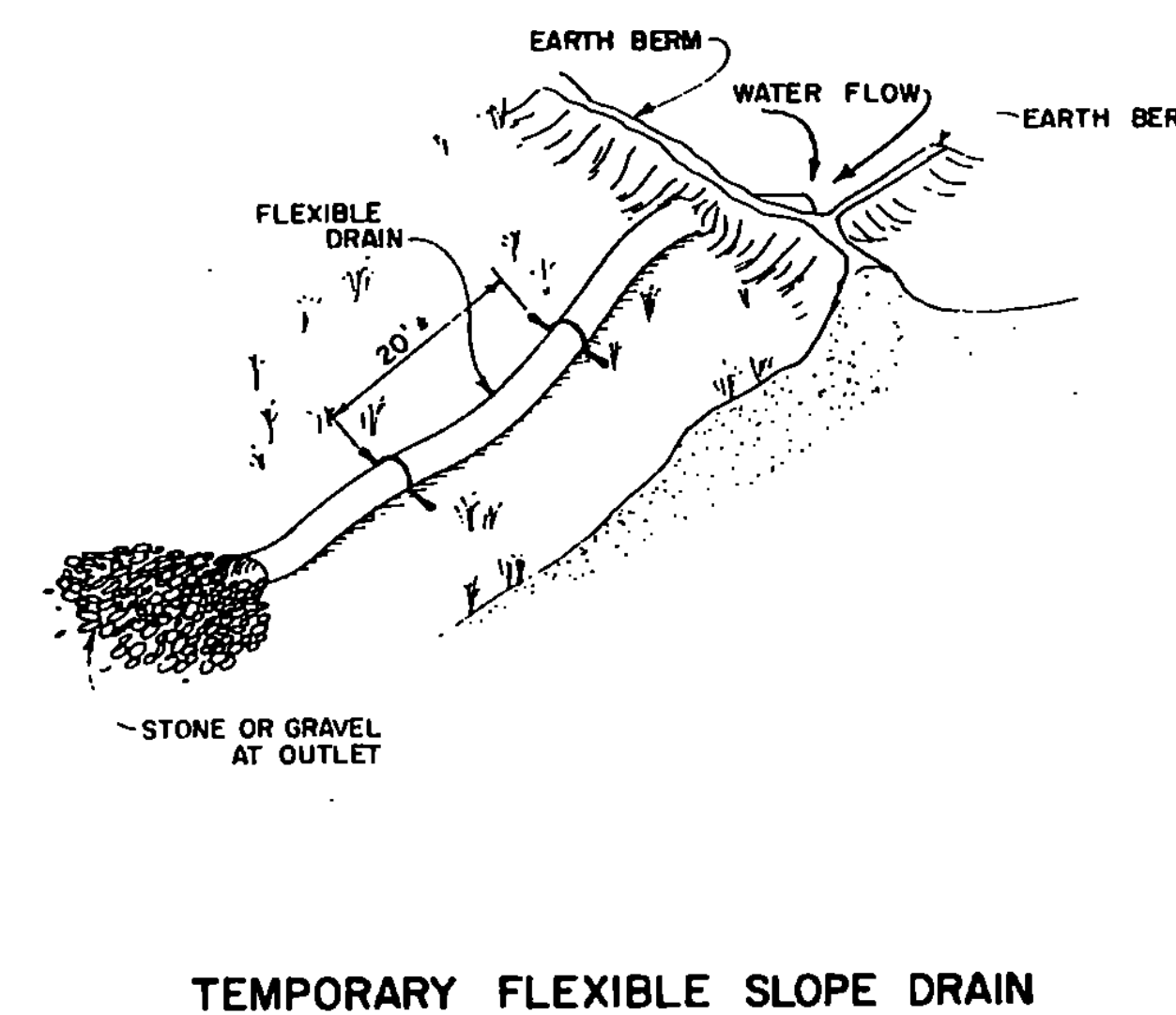
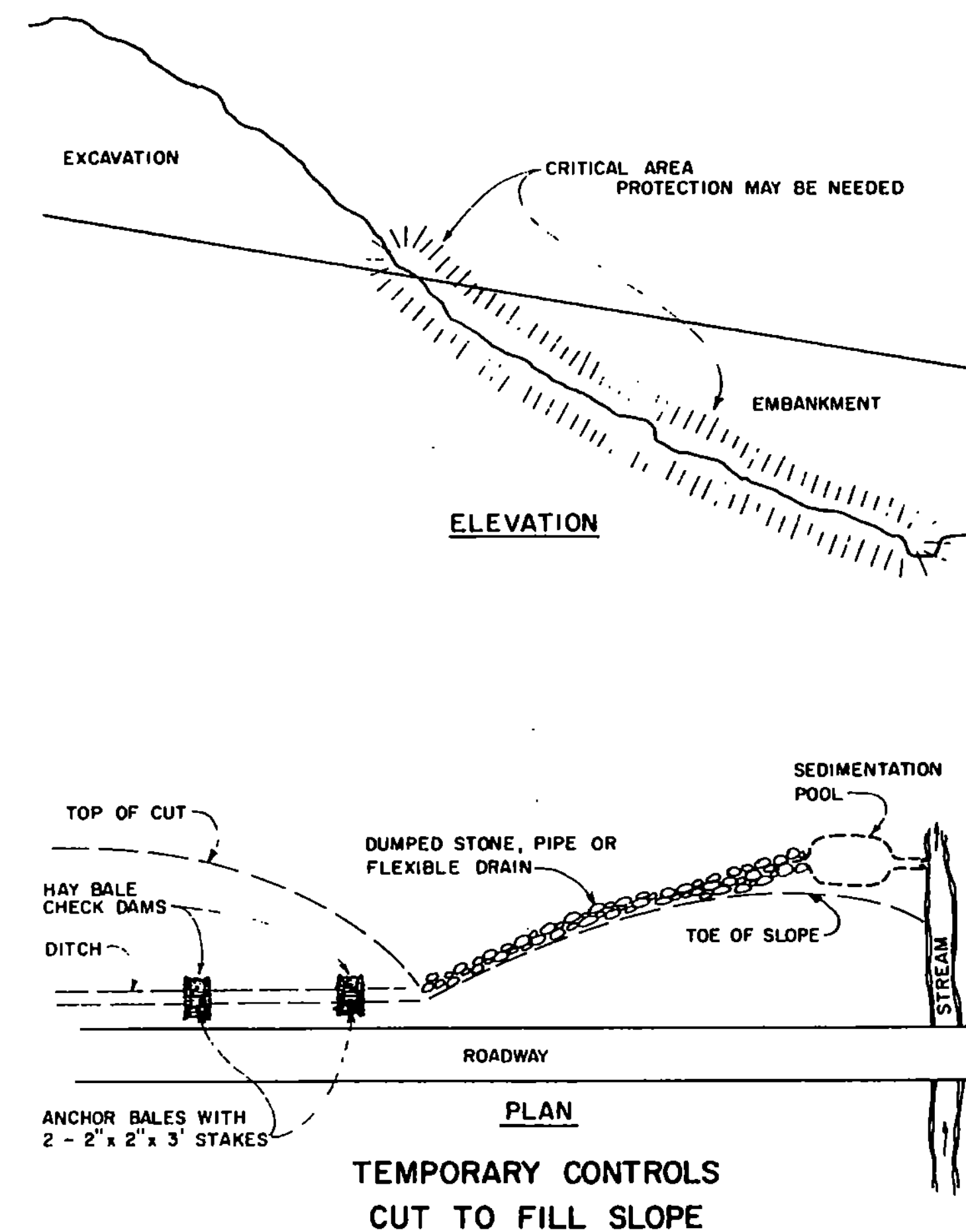
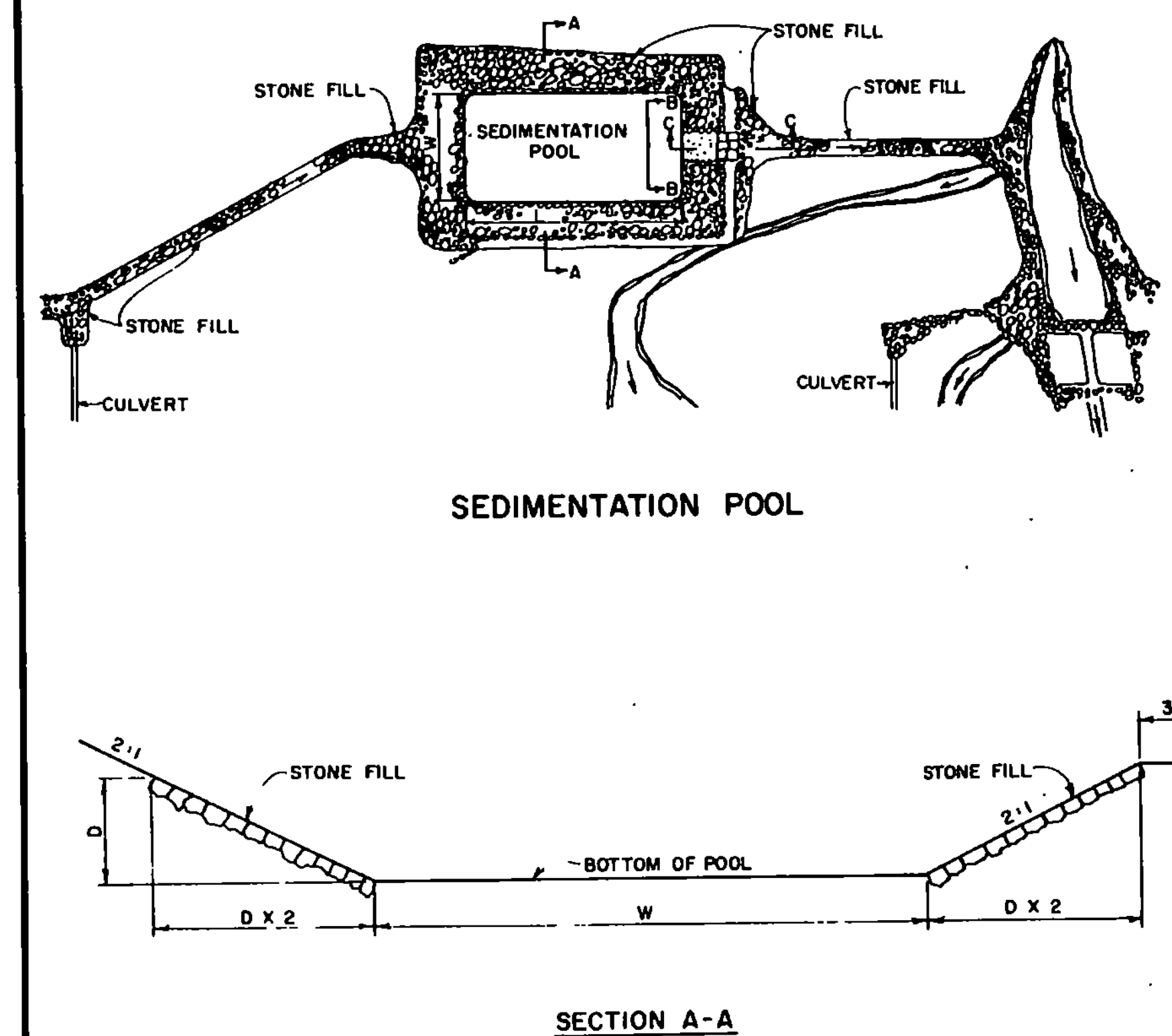
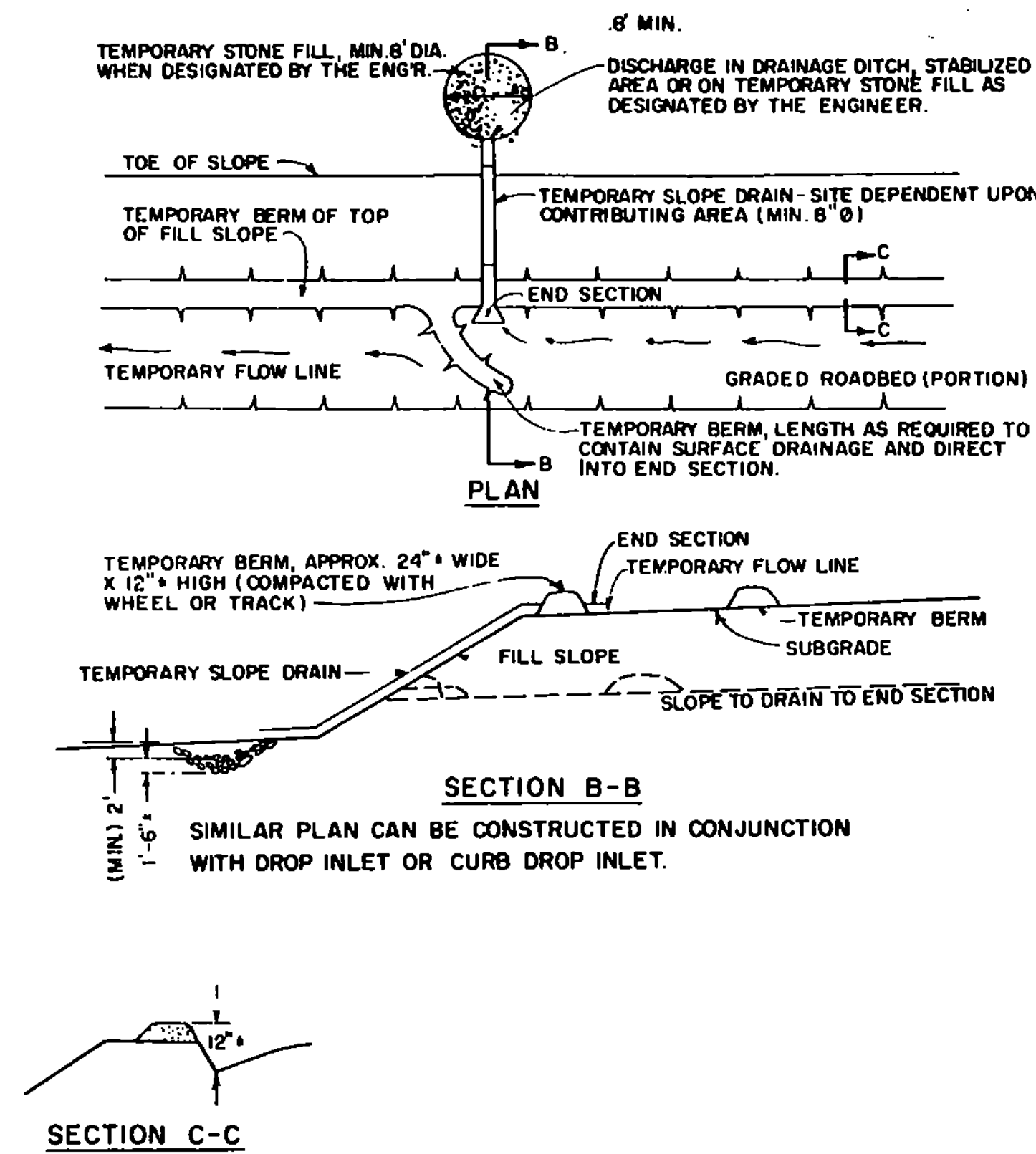
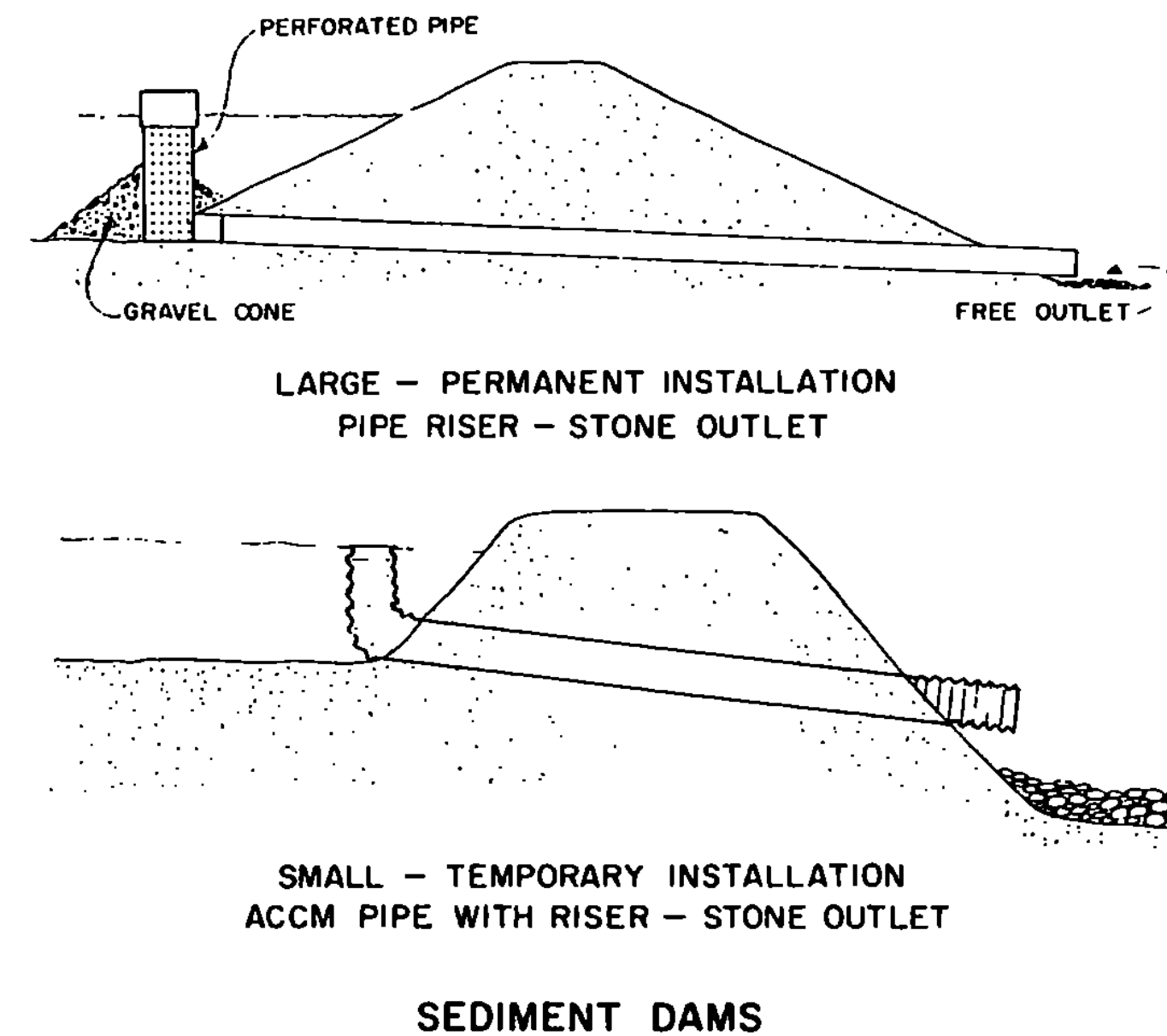
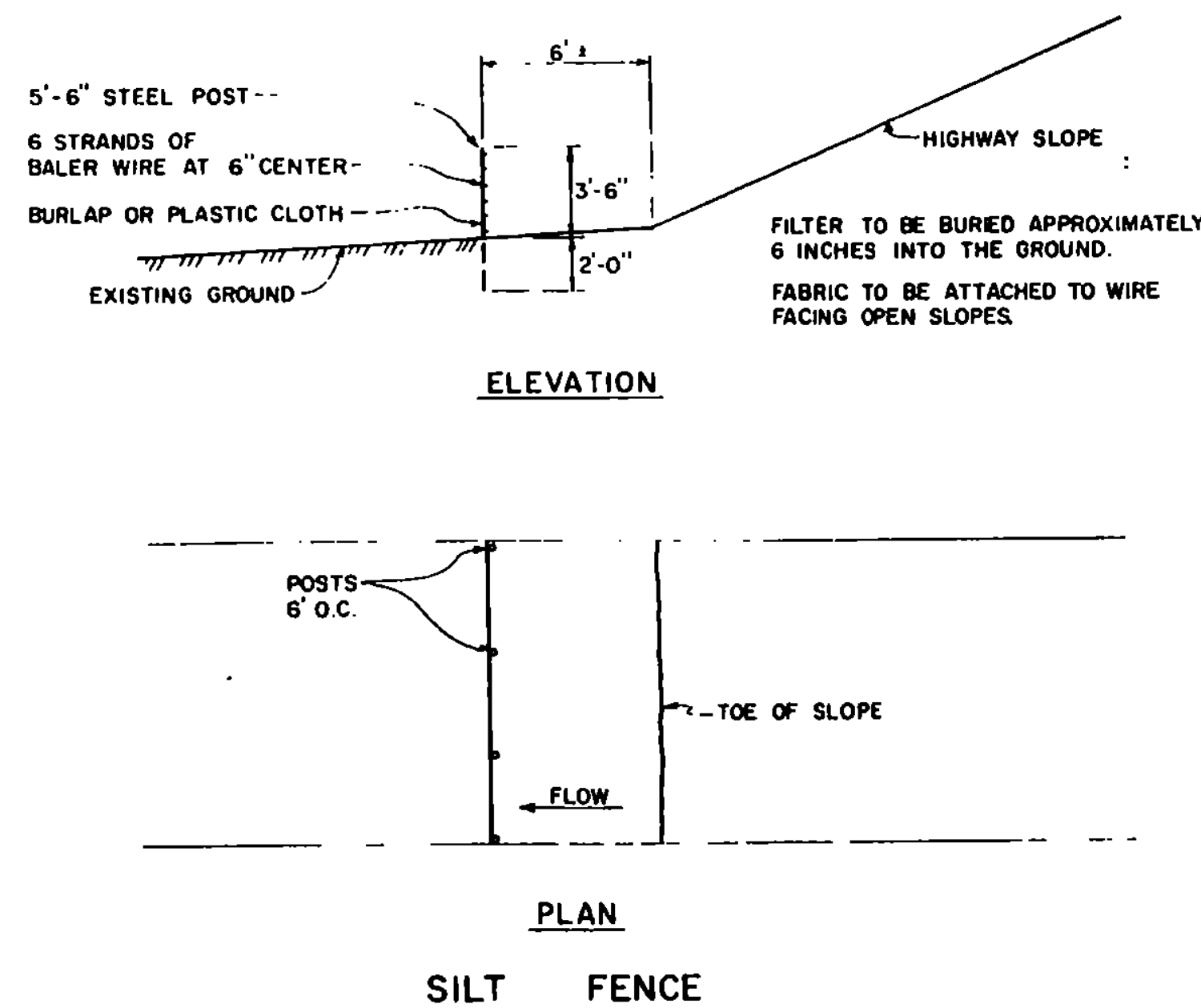


THE HOLE SHALL BE CAREFULLY DUG AND THE POST SET TO THE DEPTH SPECIFIED ABOVE. POST SHALL NOT BE DRIVEN. THE BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF GRANULAR BACKFILL FOR STRUCTURES OR SHALL BE MATERIAL APPROVED BY THE ENGINEER. COMPACTION OF THE BACKFILL WILL BE DONE AS DIRECTED BY THE ENGINEER.

IN AREAS WHERE LEDGE ROCK IS ENCOUNTERED
POSTS WILL BE SET AND GROUTED 24" DEEP IN THE LEDGE
UNLESS THE POSTS PENETRATE THE GROUND 4'.

*USE ON SINGLE POST INSTALLATIONS ONLY

STANDARD E-162



CORRECTIONS & REVISIONS

JUNE 14, 1973 - SEDIMENT TRAPS REMOVED FROM TEMPORARY
BERMS AND SLOPE DRAINS FOR FILL SLOPES.

FEB. 26, 1976 - SILT FENCE ADDED.

DEC. 7, 1976 - HAY BALE ANCHOR NOTE ADDED.

APPROVED: *July 5, 1972*

DATE

R. H. Crandall

CHIEF ENGINEER

E. H. Stinchney

ASST. CHIEF ENGINEER

G. W. Lane

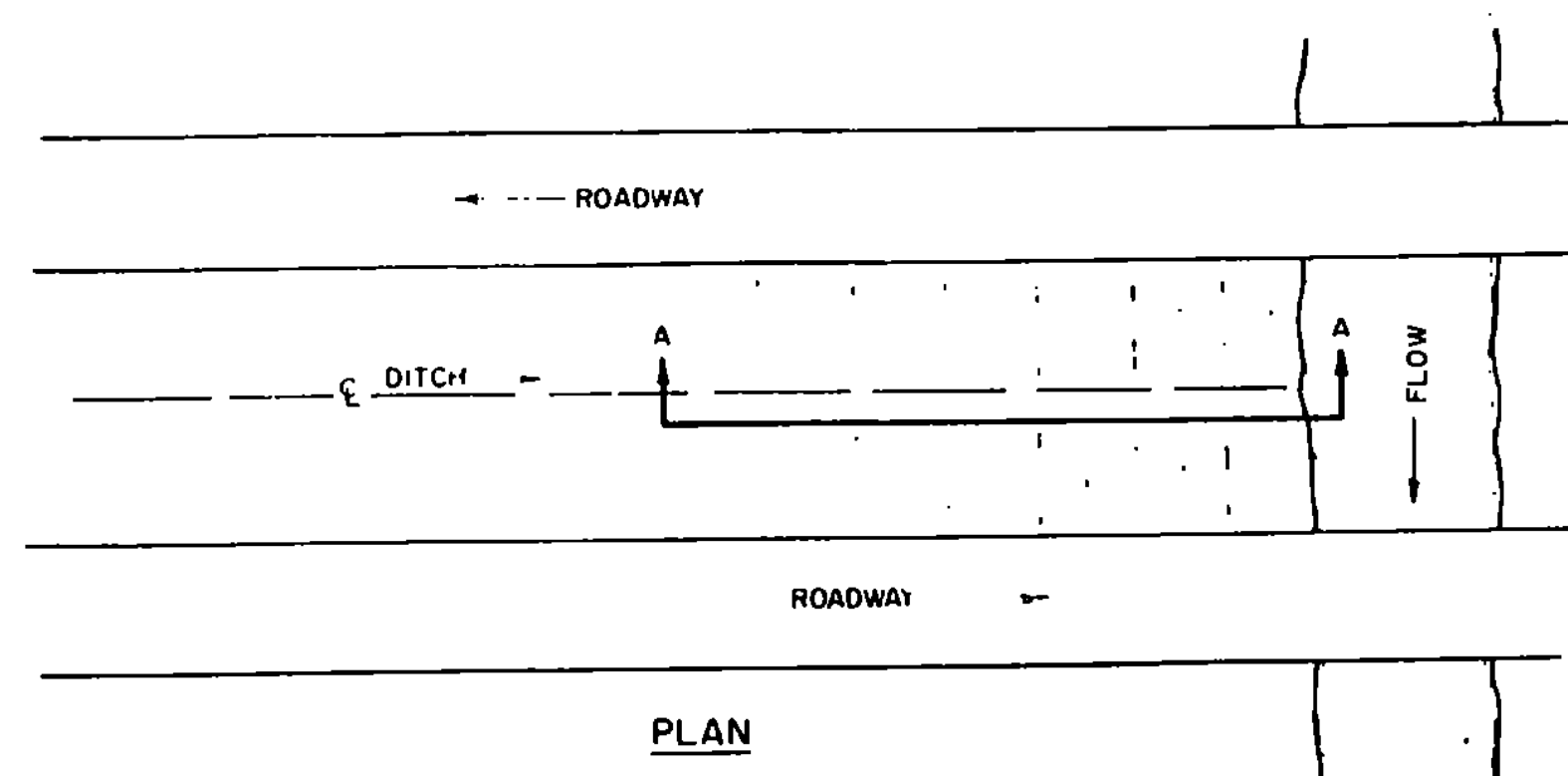
HIGHWAY ENGINEER

TEMPORARY EROSION CONTROL DETAILS

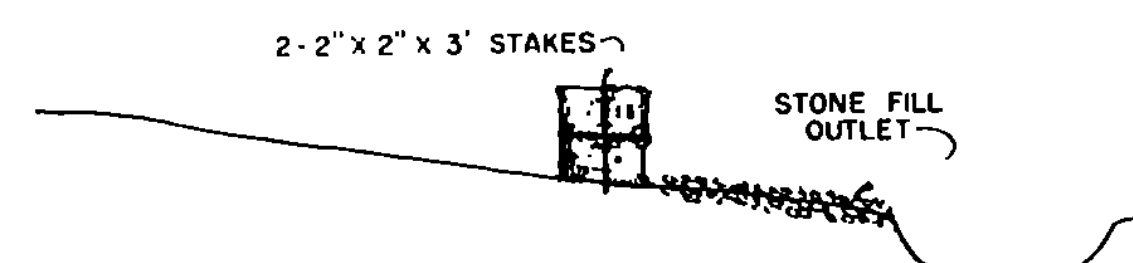


STANDARD

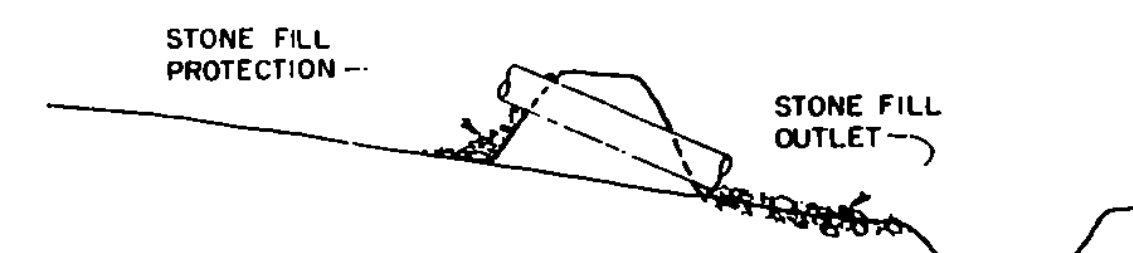
T-1



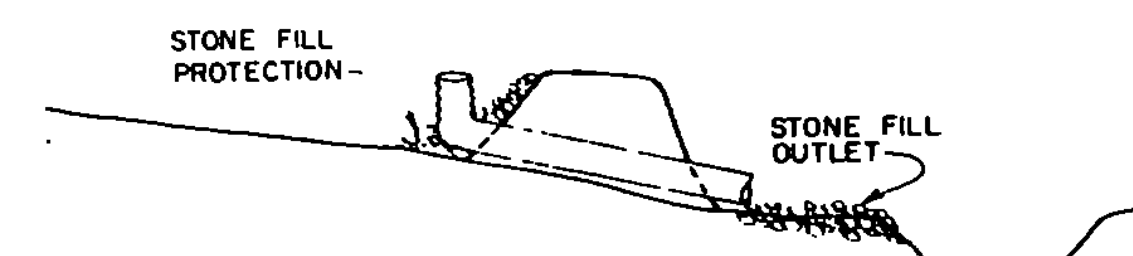
1. BALED HAY



2. TEMPORARY BERM WITH PIPE

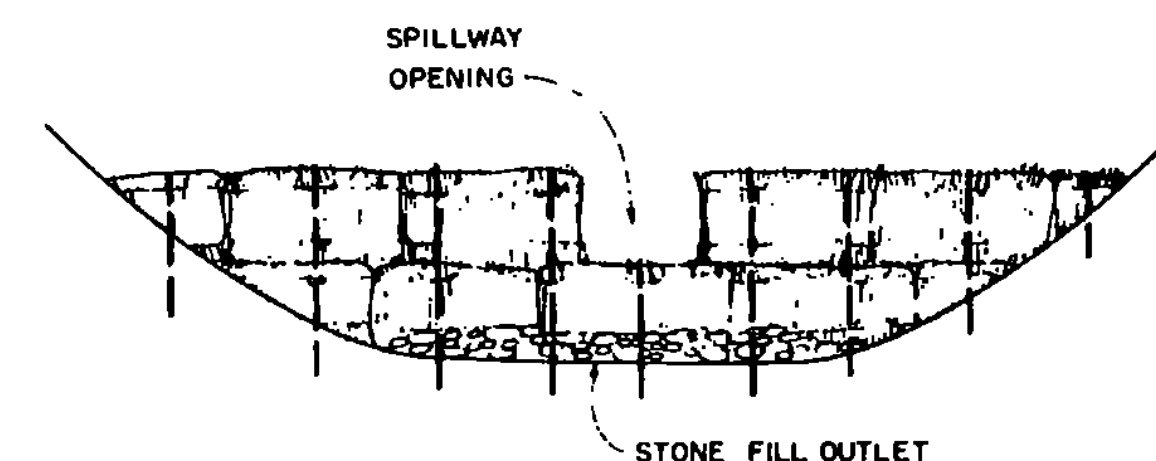


3. TEMPORARY BERM WITH PIPE & RISER

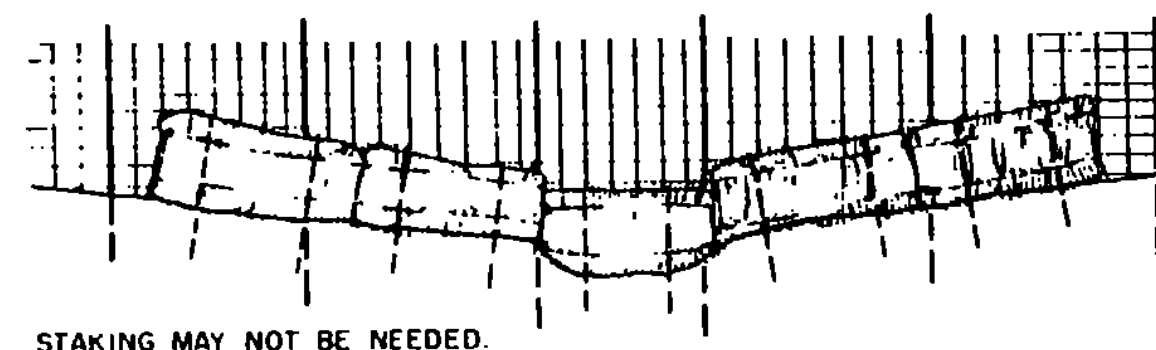


SECTIONS A-A
PROTECTION AT STREAM CROSSING
MEDIAN AND SIDE DITCHES

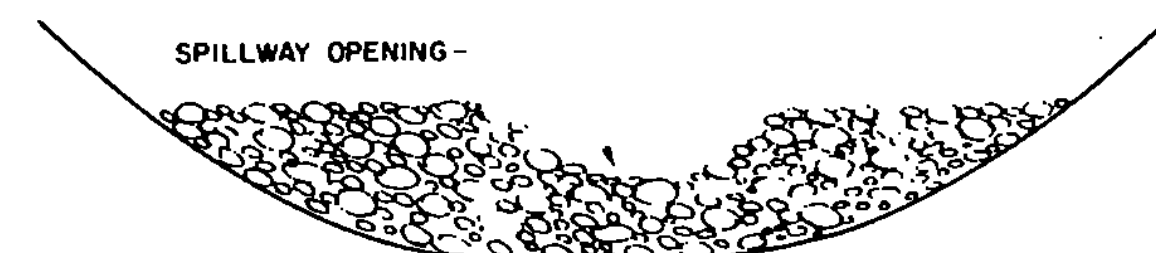
1. STAKED BALED HAY



2. BALED HAY BACKED BY FENCE

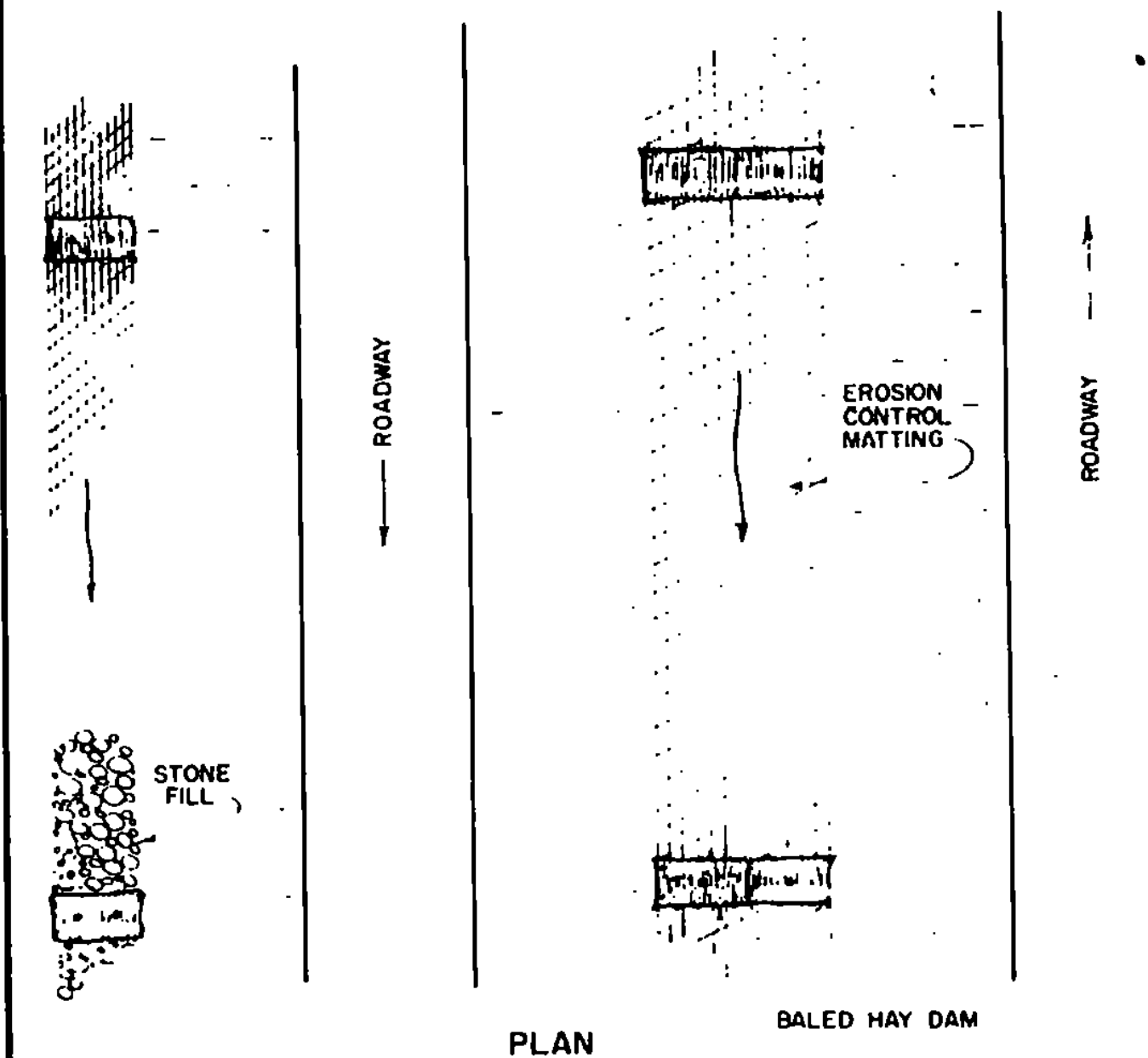


3. GRADED STONE FILL

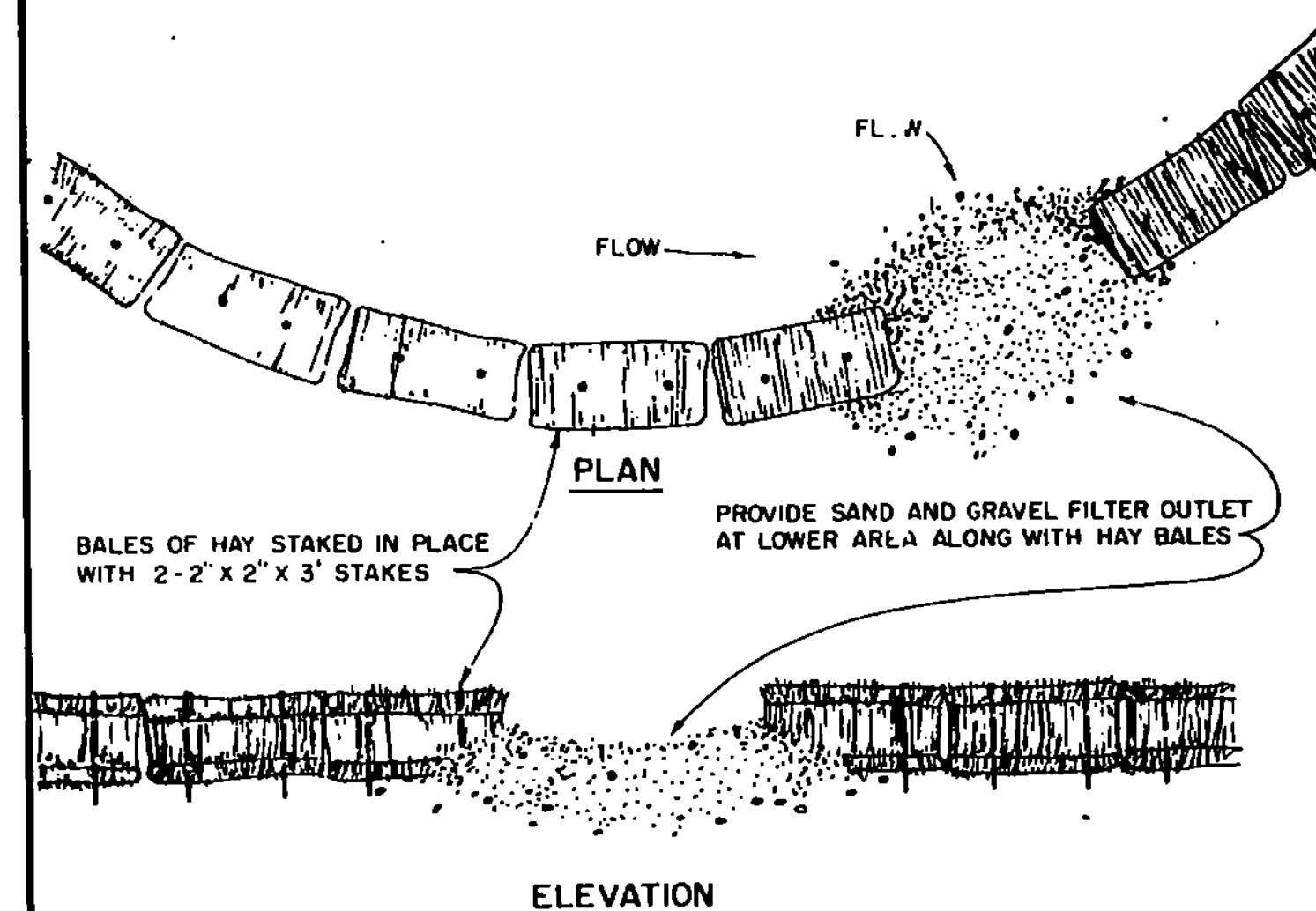


TYPES OF TEMPORARY DAMS

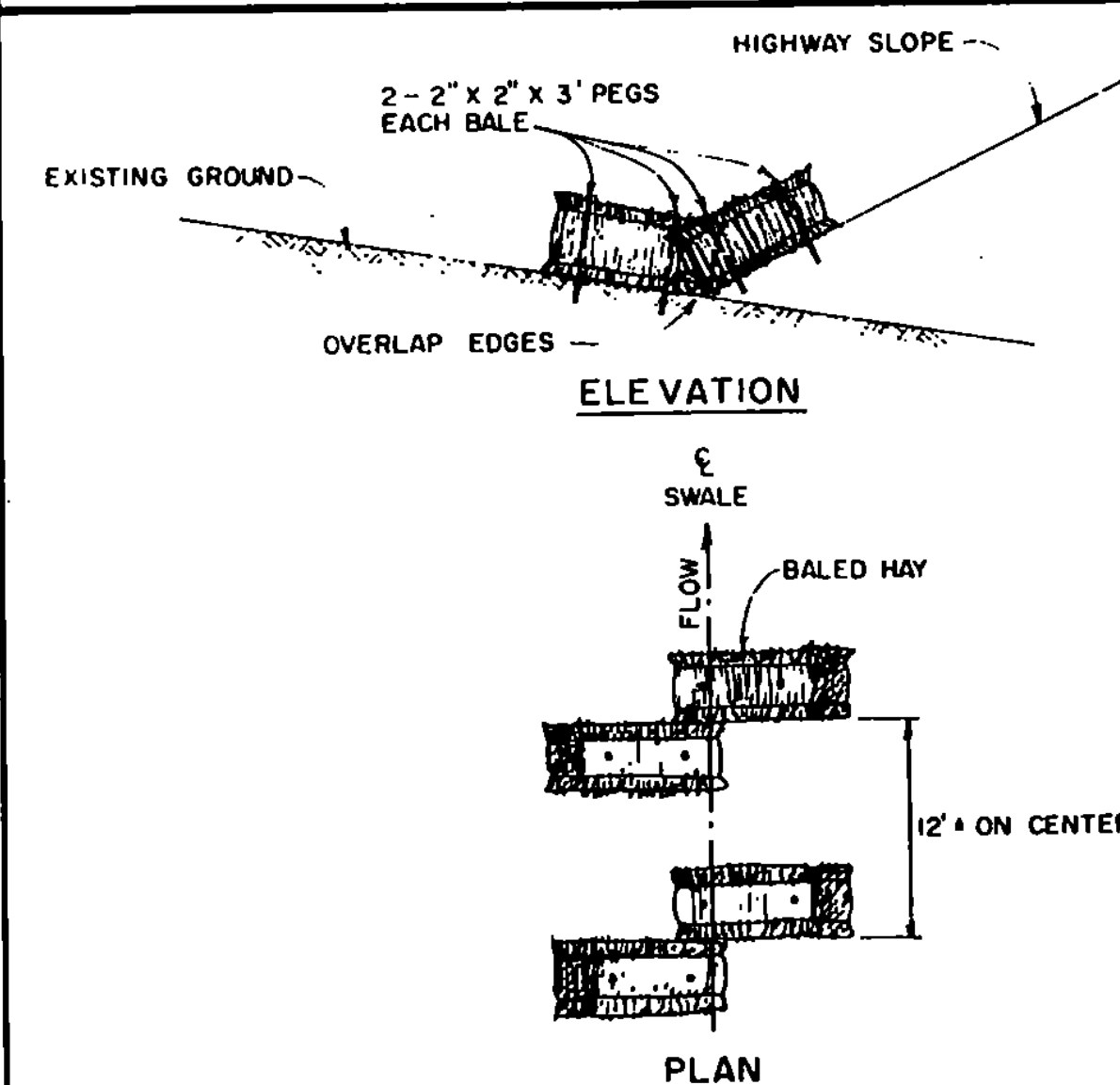
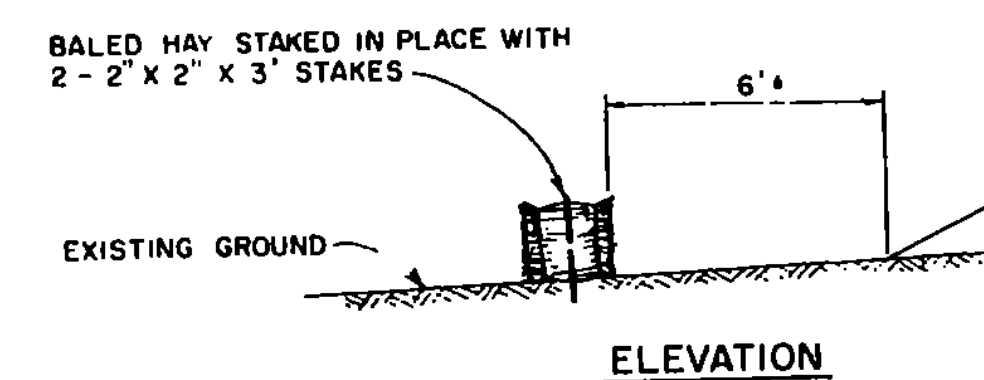
DAM SHOULD EXTEND FAR ENOUGH UP DITCH SIDE SLOPES TO EFFECTIVELY POND THE RUNOFF AND PREVENT EROSION AND WASHOUT.



BALED HAY DAMS USED IN DITCHES

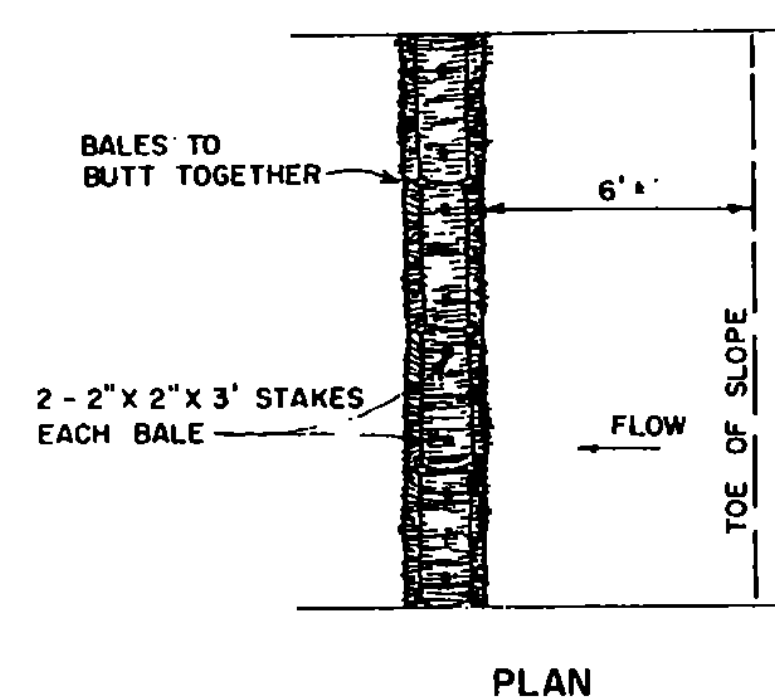


BALED HAY DAMS ALONG TOE OF SLOPE



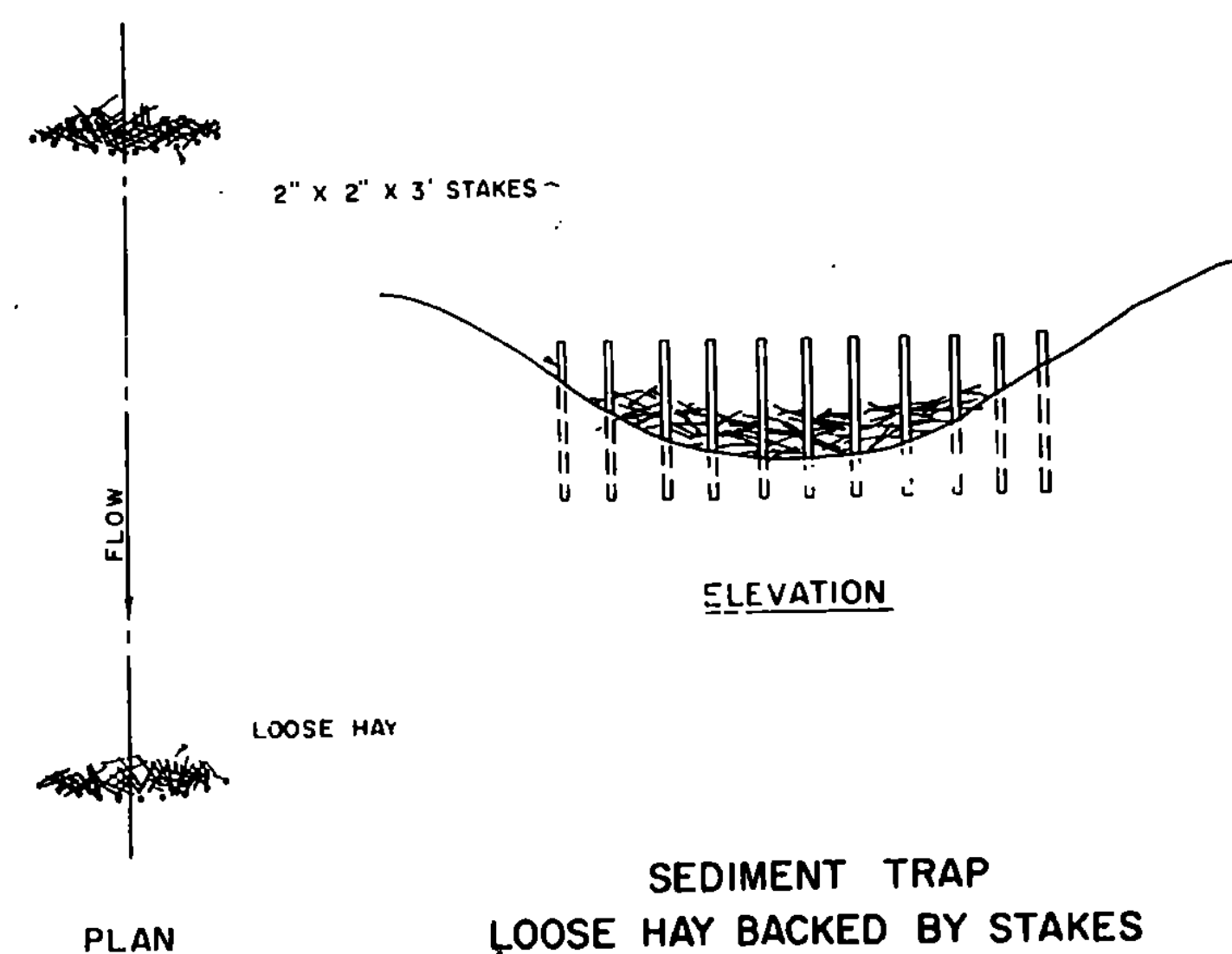
TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE EMBANKMENT. BALES WILL BE ALLOWED TO ROT IN PLACE.

BALED HAY EROSION CHECKS

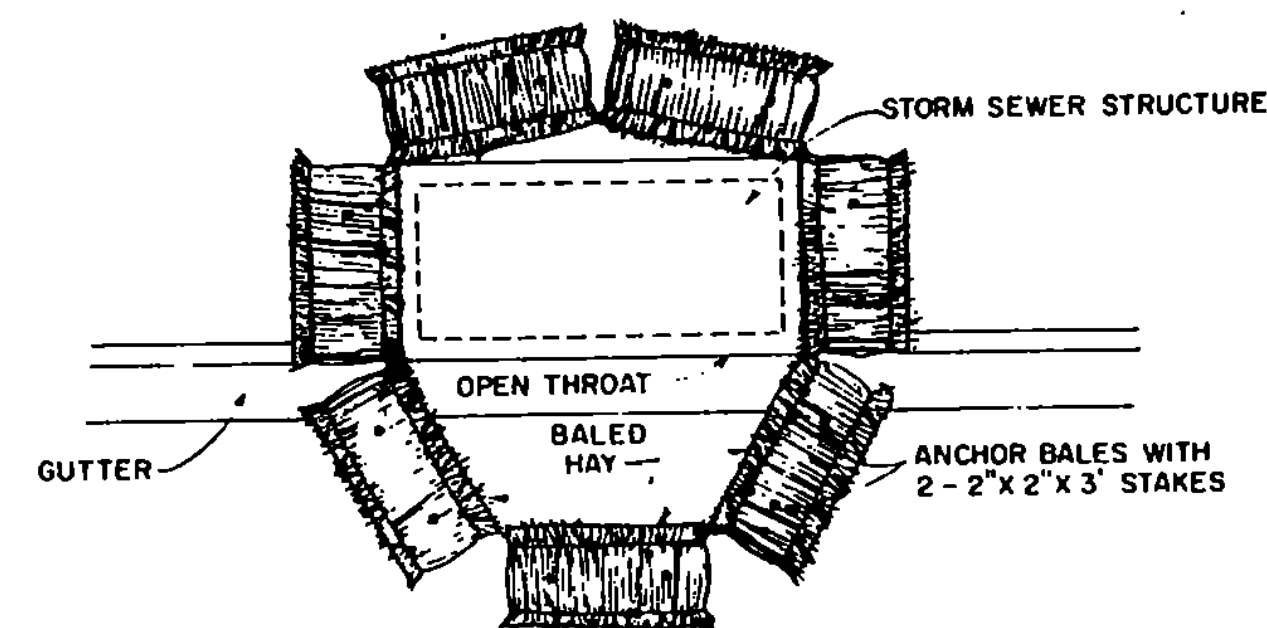


TO BE USED WHERE THE EXISTING GROUND SLOPES AWAY FROM THE HIGHWAY EMBANKMENT.

BALED HAY EROSION CHECKS



SEDIMENT TRAP
LOOSE HAY BACKED BY STAKES



INLET PROTECTION
TEMPORARY BARRIER - HAY BALES

CORRECTIONS & REVISIONS

APPROVED:

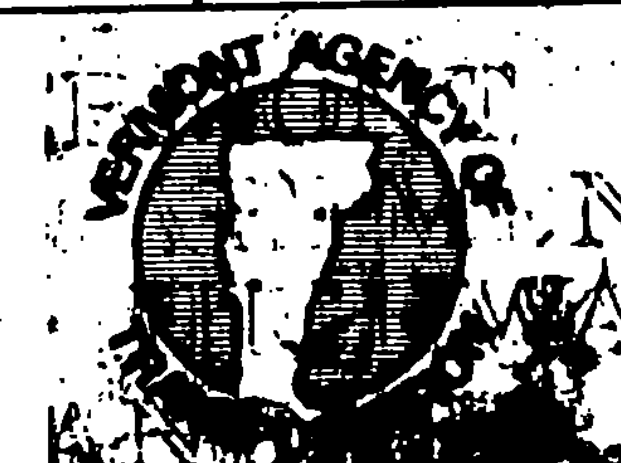
DATE July 5, 1972

CHIEF ENGINEER

ASST. CHIEF ENGINEER

HIGHWAY ENGINEER

TEMPORARY EROSION CONTROL DETAILS



STANDARD

T-2