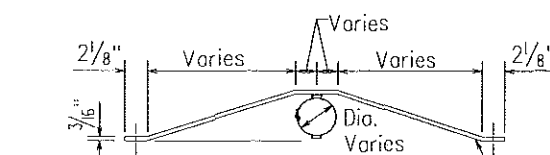


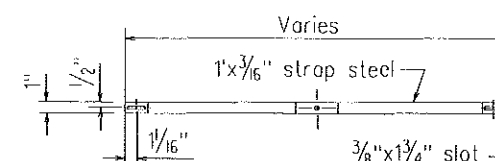
STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) # 200(1)	P40	P61

GENERAL NOTES

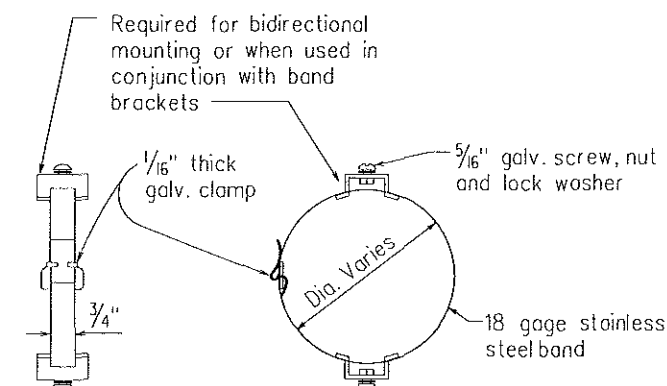
- Signs shall be placed in conformance with positions shown and described in the "Manual on Uniform Traffic Control Devices for Streets and Highways", 2003, Part II, Section 2A-21, as ammended, and as supplemented herein.
- Sign 48" and wider or larger than 10 sq. ft. in area shall be mounted on two or more sign posts except as noted below.
- Signs 48" and wider or larger that 10 sq. ft. in area may be mounted on objects other than sign posts (i.e. on highway lighting poles) as follows:
 - Signs 48" and wider but less than 10 sq. ft. in area shall be mounted with a minimum of two sets of band bracket and back braces.
 - Signs larger that 10 sq. ft. and less than 28 sq. ft. in area shall be mounted with a minimum of two sets of band brackets and back braces.
 - Signs larger than 28 sq. ft. in area shall be mounted with a minimum of three sets of band bracket and back braces.
- All parking restriction signs with arrows shall be mounted 45° to the line of traffic flow.
- Sign posts shall extend 3 1/2" above each sign, where required, for attachment of City and County street name sign.
- (R) or (L) indicates right or left and shown on the plans.
- See plans for special details of signs along bikeways.
- The minimum lateral distances shown are guidelines and shall be exceeded whenever possible. The Contractor shall place signs at the maximum practical lateral distance from the edge of the traveled way up to 30 feet and shall utilize protected locations whenever possible. Final locations of all signs shall be approved by the Contracting Officer.
- Signs in medians shall be placed at midpoint of median up to a maximum distance of 30 feet from the edge of traveled way. When appropriate, signs for opposing directions shall be placed back to back.
- Anchor bases shall be installed for all sign post installations, unless otherwise shown of directed. See sheets P41 and P42.



PLAN

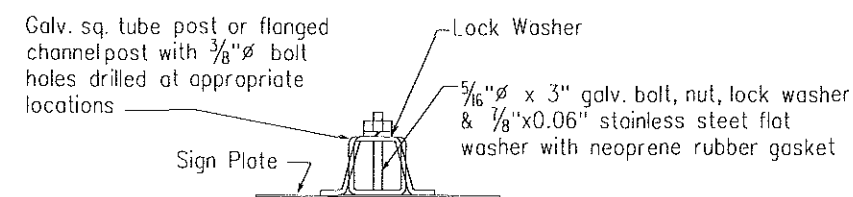


ELEVATION
BACK BRACE

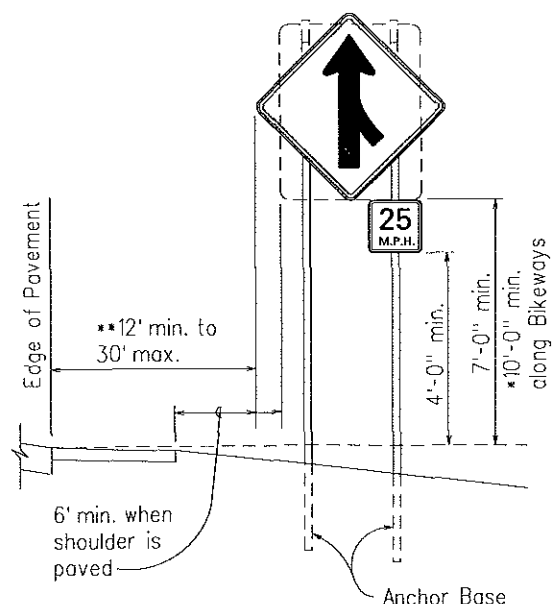
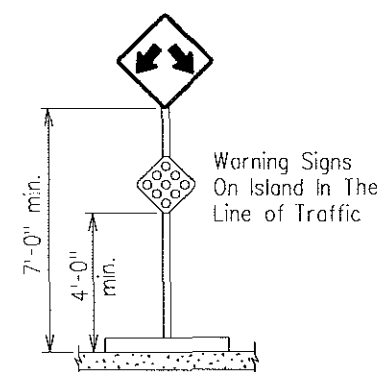
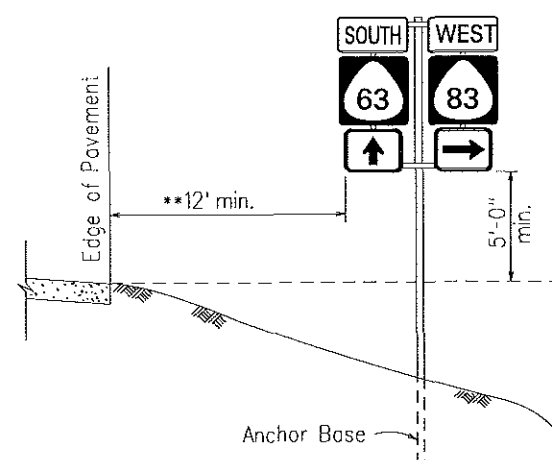
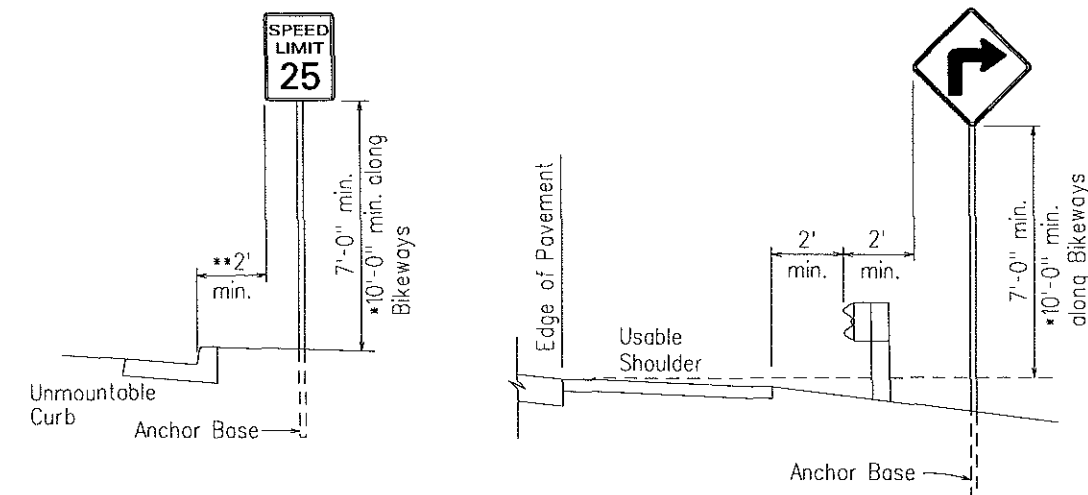


LEFT SIDE VIEW
BAND BRACKET

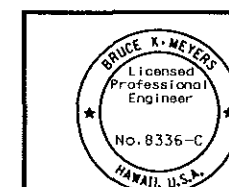
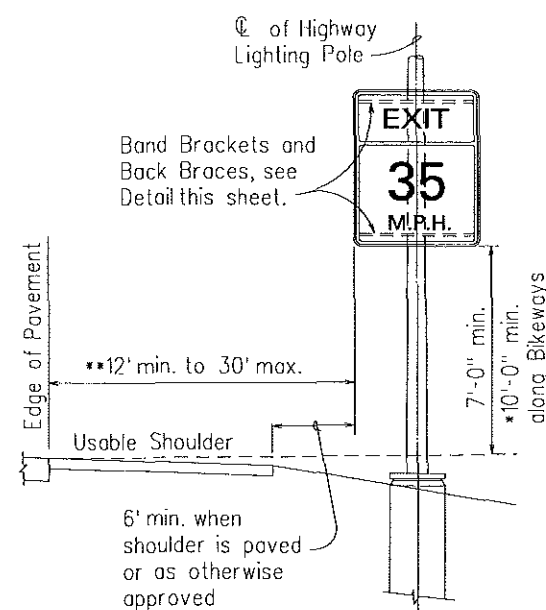
TYPICAL MOUNTING DETAILS



GALVANIZED SQUARE TUBE OR FLANGED CHANNEL POST



HEIGHT AND LATERAL LOCATION OF SIGNS TYPICAL INSTALLATION



The work was prepared by me or under my supervision and construction of this project will be under my direction.
Expiration Date of License 4/06

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
SPECIAL 633 (HDOT STD TE-01)	
MISCELLANEOUS SIGN DETAILS	
Scale: N.T.S.	Date: December 5, 2005
SHEET No. 1 OF 1	

A of A ₁	C	C ₁
36"	6"	-
48"	9"	19"
60"	12"	24"

NOTE: Frame stiffeners are required when D is greater than 24". See Gen. Note 4.

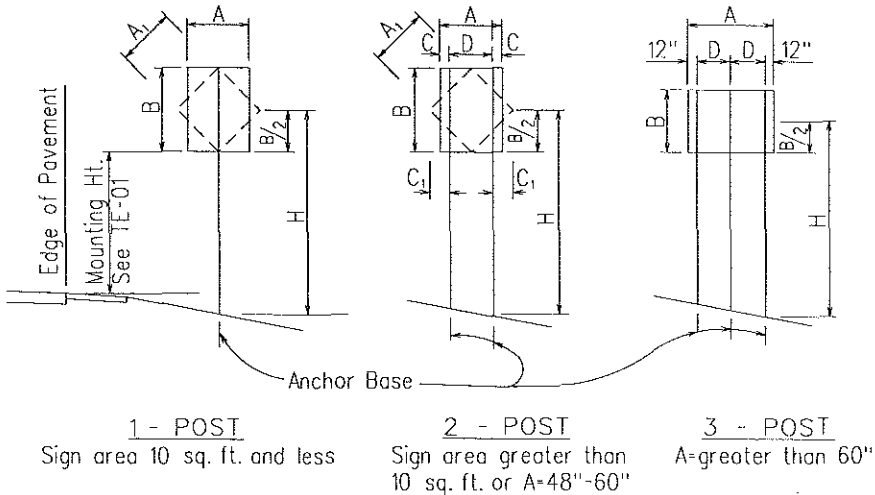
GENERAL NOTES

- Sign posts and base posts shall be flanged channel type structural steel conforming to ASTM A 499 and galvanized in accordance with ASTM A 123.
NOMINAL DIMENSIONS:
2.50 lbs./ft. - 3.125" X 1.562"
4.00 lbs./ft. - 3.500" X 1.750"
- Retainer-Spacer Strap shall be AISI1020 steel and galvanized in accordance with ASTM A 123.
- Retainer and Connector Bolts shall be 5/16-18 UNCx1.75" long hex. head, integral flange conforming to ASTM A 354 Grade BC. Nuts shall be 5/16-18 UNC hex, head, integral flange conforming to ASTM A 563 Grade D. All bolts and nuts shall be cadmium plated per Federal spec. QQP 416B, Class 2, Type 2.

4. All accessories, fittings and stiffener details (as required) shall be submitted to Contracting Officer for approval 20 days prior to installation.

5. For additional details see Standard Plan TE-01.

6. Basic formulas for use with the windload charts:
Factor = A x B x H
Therefore, if sign area (A x B) is known,
Maximum H = $\frac{\text{Factor}}{\text{sign area (A x B)}}$
and if H is known,
Maximum sign area (A x B) = $\frac{\text{Factor}}{H}$



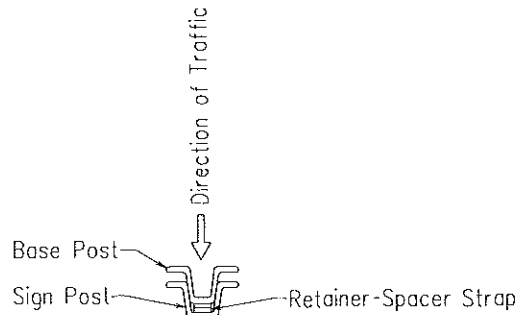
TYPICAL INSTALLATION

FLANGED CHANNEL: 1-POST INSTALLATION							
Post Size	AxBxH (Factor)	H = Ground Level to Midpoint (ft.)					
		7	8	9	10	11	12
2.50 lbs./ft.	57	8.14	7.13	6.33	5.70	5.18	4.75
4.00 lbs./ft.	112	-	-	-	-	-	9.33

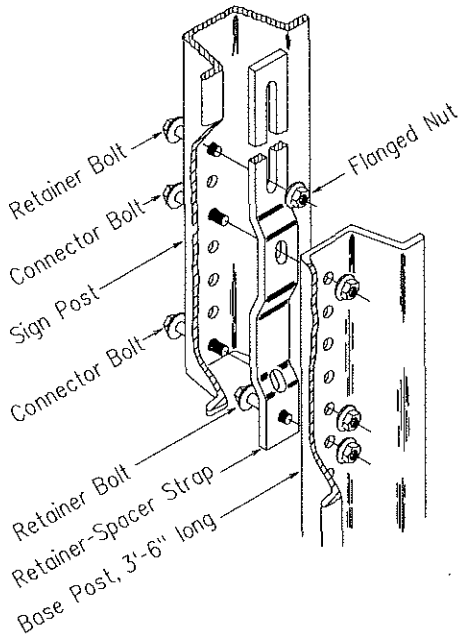
FLANGED CHANNEL: 2-POST INSTALLATION							
Post Size	AxBxH (Factor)	H = Ground Level to Midpoint (ft.)					
		7	8	9	10	11	12
2.50 lbs./ft.	124	17.71	15.50	13.77	12.40	11.27	10.33
4.00 lbs./ft.	241	34.43	30.13	26.78	24.10	21.91	20.08

FLANGED CHANNEL: 3-POST INSTALLATION							
Post Size	AxBxH (Factor)	H = Ground Level to Midpoint (ft.)					
		7	8	9	10	11	12
2.50 lbs./ft.	187	26.71	23.38	20.78	18.70	17.00	15.58
4.00 lbs./ft.	362	51.71	45.25	40.22	36.20	32.91	30.17

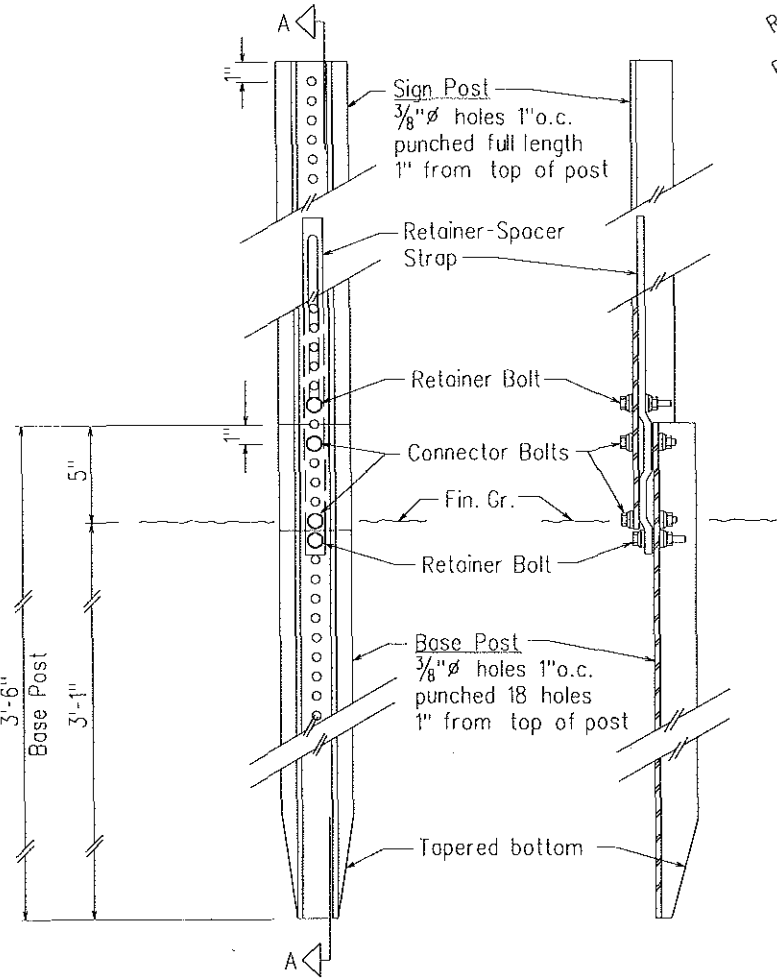
WINDLOAD CHARTS



TOP VIEW



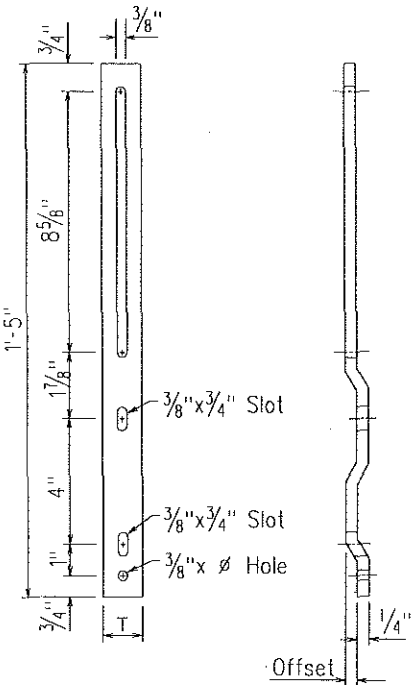
CONNECTION DETAIL



BACK VIEW

SECTION "A-A"

ANCHOR BASE DETAIL



RETAINER-SPACER STRAP

RETAINER-SPACER STRAP		
Post Size	T	Offset
2.50 lbs./ft.	1.00"	0.145"
4.00 lbs./ft.	1.12"	0.280"

M:\Mproj\Lenzie\205009\sheets\sttp041.dgn

The work was prepared by me or under my supervision and construction of this project will be under my supervision.
Expiration Date of License: 12/05

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SPECIAL 633 (HDOT STD TE-02)
GALVANIZED FLANGED CHANNEL
SIGN POST MOUNTING

Scale: N.T.S. Date: December 5, 2005

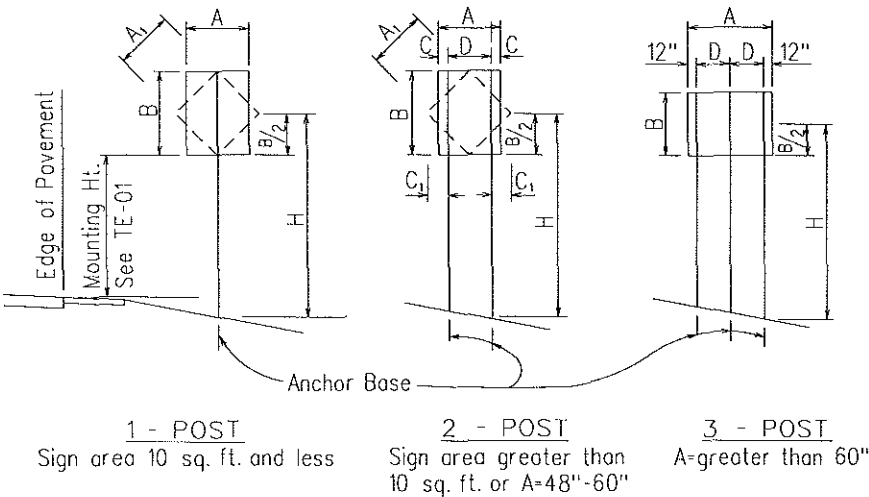
SHEET No. 1 OF 1

GENERAL NOTES

- Square tube sign posts shall conform to Subsection 718.08 Square Tube Posts of the Specifications.
- All accessories, fittings and stiffener details (as required) shall be submitted to Engineer for approval 20 days prior to installation.
- Square tube posts shall be perforated with $\frac{7}{16}$ " ϕ holes, 1" o.c., 4 sides, along entire length of post.
- All posts shall be 12 gage unless otherwise specified or shown on the plans.
- For additional details see Standard Plan TE-01.
- Basic formulas for use with the windload charts:
Factor = $A \times B \times H$
Therefore, if sign area ($A \times B$) is known,
Maximum $H = \frac{\text{Factor}}{\text{sign area (A x B)}}$
and if H is known,
Maximum sign area ($A \times B$) = $\frac{\text{Factor}}{H}$

A of A ₁	C	C ₁
36"	6"	-
48"	9"	19"
60"	12"	24"

NOTE: Frame stiffeners are required when D is greater than 24". See Gen. Note 2.



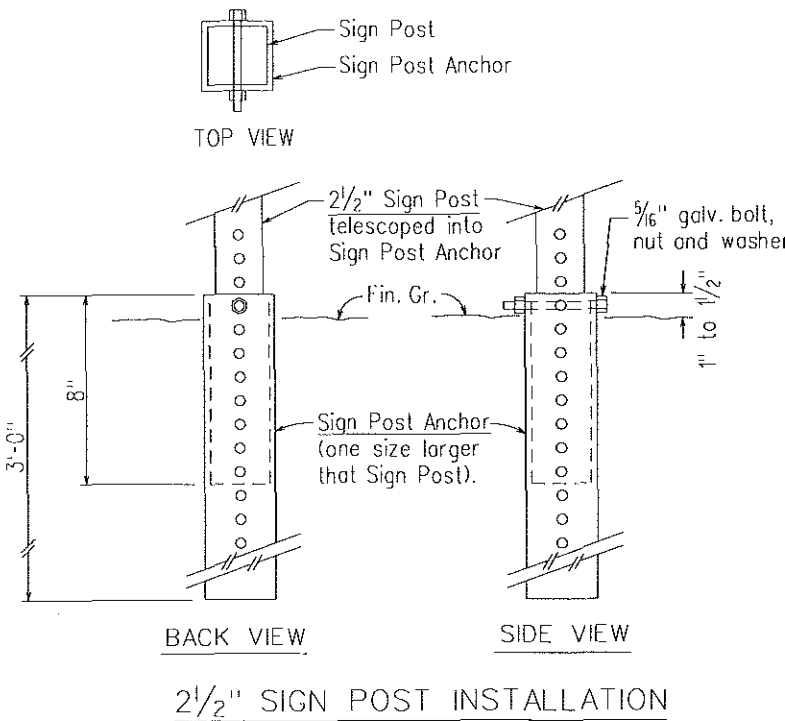
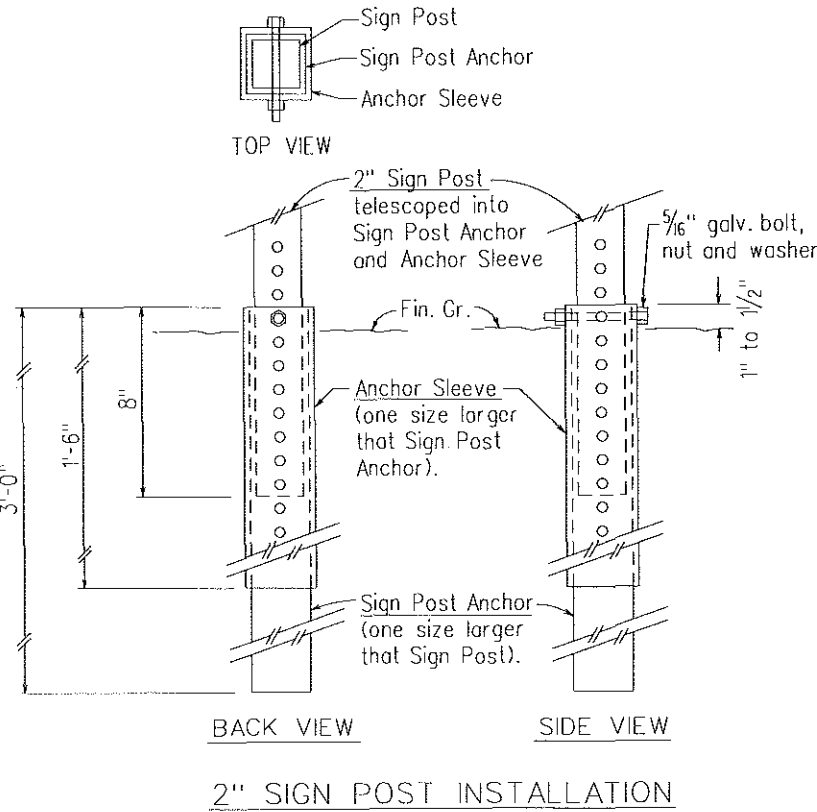
TYPICAL INSTALLATION

Not to Scale

SQUARE TUBE: 1-POST INSTALLATION							
Post Size	AxBxH (Factor)	H = Ground Level to Midpoint (ft.)					
		7	8	9	10	11	12
2"	62	8.8	7.7	6.8	6.1	5.6	4.8
2 1/2"	107	-	-	-	-	9.6	8.8
		AxB (Area, sq. ft.)					

SQUARE TUBE: 2-POST INSTALLATION							
Post Size	AxBxH (Factor)	H = Ground Level to Midpoint (ft.)					
		7	8	9	10	11	12
2"	122	17.4	15.2	13.5	12.2	11.0	10.1
2 1/2"	212	30.2	26.5	23.5	21.1	19.2	17.6
		AxB (Area, sq. ft.)					

WINDLOAD CHARTS



ANCHOR BASE DETAIL

BRUCE K. METERS
Licensed Professional Engineer
No. 8336-C
HAWAII, U.S.A.

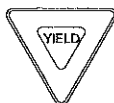
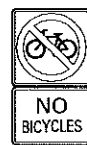
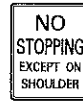
The work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration date of license 4/08.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SPECIAL 633 (HDOT STD TE-03)
GALVANIZED SQUARE TUBE
SIGN POST MOUNTING**

Scale: N.T.S. Date: December 5, 2005

SHEET No. 1 OF 1

 R1-1 30"x30" R1-1-A 36"x36"  R1-3 12"x6" R1-3-A 18"x9"	 R1-2 36"x36"x36" R1-2-A 48"x48"x48"	 R2-1(50) 36"x48"	 R2-2(40) 24"x24" R2-2(40)-A 48"x48"	 R2-4a(50/40) 24"x48" R2-4a(50/40)-A 48"x96"	 R3-1 24"x24" R3-1-A 24"x18" R3-1-A 48"x48" R3-1-A 48"x36"	 R3-2 24"x24" R3-2-A 24"x18" R3-2-A 48"x48" R3-2-A 48"x36"	 R3-3 24"x24" R3-3-A 48"x48"	 R3-4 24"x24" R3-4-A 24"x18" R3-4-A 48"x48" R3-4-A 48"x36"	 R3-5(L) 30"x36" R3-5(L)-A 48"x60"	 R3-6(L) 30"x36" R3-6(L)-A 48"x60"	 R3-8(R) 30"x30"
 R3-7(R) 30"x30" R3-7(R)-A 48"x48"	 R3-8(L) 30"x30" R3-8(L)-A 36"x36" R3-8(L)-B 48"x48"	 R3-9a 30"x36"	 R4-1 24"x30" R4-1-A 48"x60"	 R4-2 24"x30" R4-2-A 48"x60"	 R4-3 24"x30" R4-3-A 48"x60"	 R4-5 24"x30" R4-5-A 48"x60"	 R4-6(500) 24"x30" R4-6(500)-A 48"x60"	 R4-7 24"x30" R4-7-A 24"x18" R4-7-A 48"x60"	 R4-8 24"x30" R4-8-A 24"x18" R4-8-A 48"x60"	 R5-1 30"x30" R5-1-A 48"x48"	 R5-1a 36"x24"
 R5-2 24"x24" R5-2-A 24"x18"	 R5-4 24"x30" R5-4-A 48"x60"	 R5-6 24"x24" R5-6-A 24"x18"	 R6-1(R) 36"x12"	 R6-2(R) 18"x24"	 R7-1 12"x18" R7-1-A 24"x30"	 R7-4 12"x18" R7-4-A 24"x30"	 R7-107 12"x18"	 R7-108 12"x18"	 R7-201 12"x6" R7-201-A 24"x12"	 R8-1 24"x30" R8-1-A 48"x60"	 R8-2 24"x30" R8-2-A 48"x60"
 R8-3 24"x30" R8-3-A 48"x48"	 R8-4 30"x24" R8-4-A 48"x36"	 R8-5 24"x30" R8-5-A 48"x48"	 R8-6 24"x30" R8-6-A 48"x60"	 R8-7 30"x24" R8-7-A 48"x36"	 R9-1 18"x24"	 R9-2 12"x18"	 R9-3 12"x18"	 R9-4 18"x24"	 R10-1 12"x18"	 R10-2 12"x18"	 R10-3 9"x12"
 R10-4 9"x12"	 R10-5 24"x30"	 R10-6 24"x36"	 R10-7 24"x30"	 R10-8 24"x30"	 R10-9 24"x30"	 R10-10 24"x30"					
 R10-12 24"x30"	 R11-1 24"x30"	 R11-2 48"x30"	 R11-3(10) 60"x30"	 R11-4 60"x30"	 R12-1(10) 24"x30"						

GENERAL NOTES

- Sign details shall conform to the latest editions of FHWA publications "Manual of Uniform Traffic Control Devices for Streets and Highways," "Standard Alphabet for Highway Signs," and "Standard Highway Signs," and as amended.
- All regulatory signs shall be reflectorized unless otherwise specified.
- All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicate numerals to be inserted for sign message. (R) or (L) indicates right or left.
- All signs shall be erected without educational plaques unless called for in the plans.



7/1/8

DAT

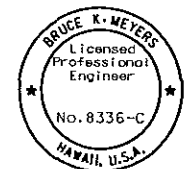
U.S. FEDERAL CENTRAL

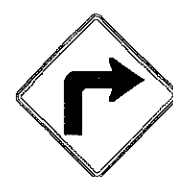
CP50

GENERAL NOTES

- Sign details shall conform to the latest editions of FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," "Standard Alphabets for Highway Signs," and "Standard Highway Signs," and as amended.
- All regulatory signs shall be reflectorized unless otherwise specified.
- All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in () indicate numerals to be inserted for sign message. (R) or (L) indicates right or left.
- All signs shall be erected without educational plaques unless called for in the plans.

7/1/87	Deleted Sign R3-9 and Added Signs R3-9a and R10-12.	
DATE	REVISION	APP'D.

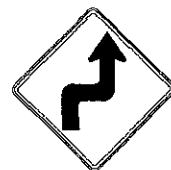
 The work was prepared by me or under my supervision and construction of this project will be in accordance with the Hawaii Engineering Code. <i>[Signature]</i> Expiration Date of License 4/06	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
	SPECIAL 633 (HDOT STD TE-04)	
	REGULATORY SIGNS	
Scale: N.T.S.		Date: December 5, 2005
SHEET No. / OF /		



W1-1(R)
30"x30"
W1-1(R)-A
48"x48"



W1-2(R)
30"x30"
W1-2(R)-A
48"x48"



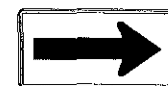
W1-3(R)
30"x30"
W1-3(R)-A
48"x48"



W1-4(R)
30"x30"
W1-4(R)-A
48"x48"



W1-5(R)
30"x30"
W1-5(R)-A
48"x48"



W1-6
48"x24"



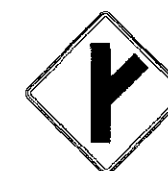
W1-7
48"x24"



W2-1
30"x30"
W2-1-A
48"x48"



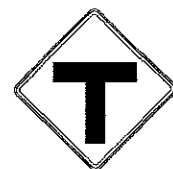
W2-2R
30"x30"
W2-2R-A
48"x48"



W2-3(R)
30"x30"
W2-3(R)-A
48"x48"



W3-5
36"x36"



W2-4
30"x30"
W2-4-A
48"x48"



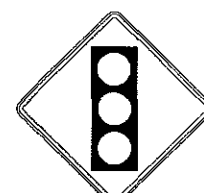
W2-5
30"x30"
W2-5-A
48"x48"



W3-1
30"x30"
W3-1-A
36"x36"



W3-2
30"x30"
W3-2-A
36"x36"



W3-3
36"x36"
24"x18"



W4-1(R)
30"x30"
24"x18"
W4-1(R)-A
48"x48"
24"x18"



W4-2(R)
36"x36"
W4-2(R)-A
48"x48"



W5-1
36"x36"
W5-1-A
48"x48"



W5-2
30"x30"
W5-2-A
36"x36"



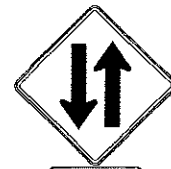
W5-3
36"x36"
W5-3-A
48"x48"



W6-1
36"x36"
24"x18"
W6-1-A
48"x48"
24"x18"



W6-2
36"x36"
24"x18"
W6-2-A
48"x48"
24"x18"



W6-3
30"x30"
24"x18"
W6-3-A
36"x36"
24"x18"
W6-3-B
48"x48"
24"x18"



W7-1
30"x30"
24"x18"
W7-1-A
48"x48"
24"x18"



W7-2
24"x18"



W8-1
30"x30"
W8-1-A
36"x36"
W8-1-B
48"x48"



W8-2
30"x30"
W8-2-A
36"x36"
W8-2-B
48"x48"



W8-3
30"x30"
W8-3-A
36"x36"



W8-4
30"x30"
W8-4-A
36"x36"



W7-1
30"x30"
24"x18"
W7-1-A
48"x48"
24"x18"



W9-1
30"x30"
W9-1-A
36"x36"
W9-1-B
48"x48"



W9-2(L)
36"x36"
W9-2(L)-A
48"x48"



W10-1
36" Diameter



W11-1
30"x30"
24"x18"
W11-1-A
36"x36"
24"x18"
W11-1-B
48"x48"



W11A-2
30"x30"
24"x18"
W11A-2-A
36"x36"
W11-2-B
48"x48"
24"x18"



W11-4
30"x30"
24"x18"
W11-4-A
36"x36"
W11-4-B
48"x48"
24"x18"



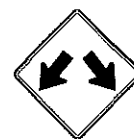
W11-5
30"x30"
24"x18"
W11-5-A
36"x36"
W11-5-B
48"x48"
24"x18"



W14-3
36"x48"x48"
W14-3-A
48"x64"x64"



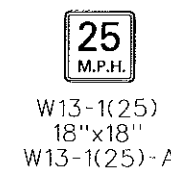
W14-1
30"x30"
W14-1-A
36"x36"



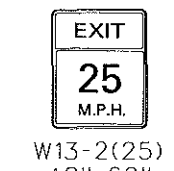
W12-1
24"x24"
W12-1-A
36"x36"
W12-1-B
48"x48"



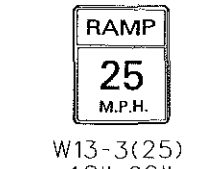
W12-2(12'-6")
36"x36"
24"x18"
W12-2(12'-6")-A
48"x48"



W13-1(25)
18"x18"
W13-1(25)-A
24"x24"



W13-2(25)
48"x60"



W13-3(25)
48"x60"

GENERAL NOTES

- Sign details shall conform to the latest editions of FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," "Standard Alphabets for Highway Signs," and "Standard Highway Signs," and as amended.
- All warning signs shall be reflectorized unless otherwise specified.
- All warning signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- Numerals in () indicate numerals to be inserted for sign message. (R) or (L) indicates right or left.
- Signs prefixed with "CW" on the plans shall indicate orange and black construction signs, and shall be reflectorized.

DATE	REVISION	APP'D.
7/1/87	Deleted Sign R3-9 and Added Signs R3-9a and R10-12.	

 The work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of License 4/05.	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION
	SPECIAL 633 (HDOT STD TE-05) WARNING SIGNS
Scale: N.T.S.	Date: December 5, 2005
SHEET No. / OF /	

GENERAL NOTES

- Sign details shall conform to the latest editions of the following FHWA publications:
 - "Standard Alphabets for Highway Signs," and as amended.
 - "Standard Highway Signs," and as amended.
 - "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
- All signs shall be reflectorized with reflective sheeting, unless otherwise specified.
- All signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- Numerals in () indicate numerals to be inserted for sign message. (R) or (L) indicates right or left.
- Signs prefixed with "CW" on the plans shall indicate orange and black construction signs, and shall be reflectorized with reflective sheeting.
- All signs shall be erected without educational plaques unless called for in the plans.

ALL WAY

R1-4
18"x6"

REDUCED
SPEED
AHEAD

R2-5a
24"x30"
R2-5a-A
48"x60"

SPEED
LIMIT
ENFORCED
BY
RADAR

R2-10
24"x30"

4"Ser.D
4"Ser.D
4"Ser.C
3"Ser.D
5"Ser.C

CENTER
LANE
ONLY

R3-9b
24"x36"

MOTOR-DRIVEN
CYCLES
PROHIBITED

R5-8
30"x24"

4"Ser.B

RESERVED
PARKING

R7-107a
12"x24"

RESERVED
PARKING

R7-8
12"x18"
R7-8-A
24"x30"

ANY TIME

1/2" 4"Ser.C

R8-3a
24"x24"
24"x18"
R8-3a-A
48"x48"

NO
PEDESTRIAN
CROSSING

R9-3a
24"x24"
18"x12"
R9-3a-A
24"x24"
24"x18"

USE
CROSSWALK

R9-3b(R)
18"x12"

USE
CROSSWALK

R9-3b(L)
18"x12"

NO
TURN
ON
RED

R10-11a
24"x30"

TURN
RIGHT
ANY TIME
WITH
CAUTION

R16-1
24"x30"

4"Ser.C

NO
LEFT
TURN
ON
RED

R16-3
18"x24"

4"Ser.D
3"Ser.D
2"Ser.D
3"Ser.D

NO
RIGHT
TURN
ON
RED

R16-4
18"x24"

UNLICENSED
VEHICLES
BICYCLES, CYCLES
UNDER 5 HP,
PEDESTRIANS
KEEP OUT
FREEWAY

R16-5
36"x42"

3"Ser.C

4"Ser.E

U
TURN
AHEAD

R16-6
24"x30"

8"Ser.F

U
TURN
OK

R16-7
24"x30"

5"Ser.D

USE
SIDEWALK

R18-1
24"x18"

4"Ser.C

W1-8
18"x24"
W1-8-A
36"x48"

STOP
AHEAD

W3-1a
36"x36"
24"x18"
W3-1a-A
48"x48"
24"x18"

YIELD
AHEAD

W3-2a
36"x36"
24"x18"
W3-2a-A
48"x48"
24"x18"

STOP
AHEAD
WHEN
FLASHING

W3-4
48"x48"

6"Ser.C

W4-3
36"x36"
W4-3-A
48"x48"

RUNAWAY
TRUCK RAMP
1 MILE

W7-4
78"x78"

RUNAWAY
TRUCK RAMP

W7-4a
78"x60"

TRUCK
CROSSING

W8-6
30"x30"
W8-6-A
36"x36"
W8-6-B
48"x48"

THRU
TRAFFIC
MERGE
LEFT

W9-3(L)
48"x48"

EQUESTRIAN
XING

W11-7
36"x36"
24"x18"
W11-7-A
48"x48"
24"x18"

FIRE
STATION

W11-8
36"x36"
24"x18"
W11-8-A
48"x48"
24"x18"

W11-9
36"x36"
W11-9-A
48"x48"

NO
OUTLET

W14-2
30"x30"

LIMITED
SIGHT
DISTANCE

W14-4
36"x36"
W14-4-A
48"x48"

W15-1
36"x36"

W17-1(L)
60"x60"

RIGHT
LANE
EXIT
ONLY

W18-1
48"x60"

11/3/89

Deleted Signs
W15-18, W15-2.
Replaced w/New
W15-1.
Added Signs W1-8,
W7-4, W7-4a and
W14-2.

7/1/87

DATE

REVISION

APP'D.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SPECIAL 633 (HDOT STD TE-06)

MISCELLANEOUS SIGNS

BRUCE K. MEYERS
Licensed
Professional
Engineer
No. 8336-C
HAWAII, U.S.A.
The work was prepared by me
or under my supervision and
construction of this project will
be under my direction.
Expiration Date of License 4/06

Scale: N.T.S.

Date: December 5, 2005

SHEET No. 1 OF 1

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) # 200(1)	P46	P61

GENERAL NOTES

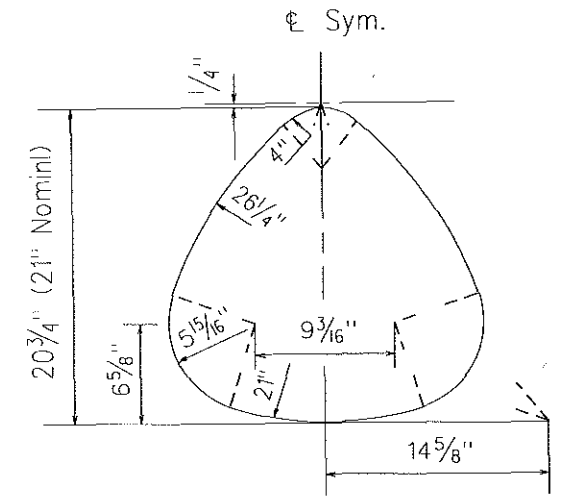
- Marker details shall conform to the latest editions of FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," "Standard Alphabets for Highway Signs," and "Standard Highway Signs," and as amended.
- All markers shall be reflectorized unless otherwise specified.
- All markers shall be $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- Numerals in () indicates numerals to be inserted for marker message. (R) or (L) indicates right or left.
- Sign message of Cardinal Direction Marker (M3 series) shall be denoted by the following:

M3-1: NORTH

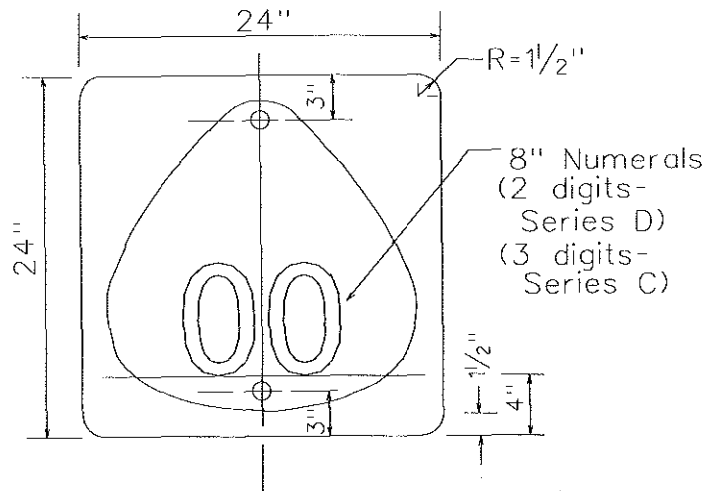
M3-2: EAST

M3-3: SOUTH

M3-4: WEST
- Markers prefixed with "IM" on the plans shall have a white legend on a blue background.



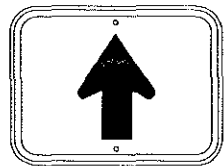
STATE ROUTE MARKER DETAIL



STATE ROUTE MARKER
M1-5(00) 24"x24"



M2-1 21"x15"



M6-3 21"x15"



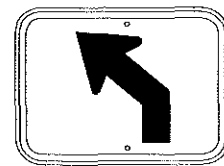
M3-1 24"x12"



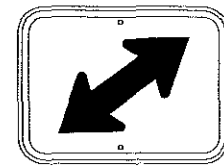
M4-1 24"x12"



M4-2 24"x12"



M5-2(L) 21"x15"



M6-5(R) 21"x15"



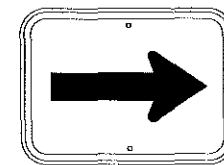
M4-3 24"x12"



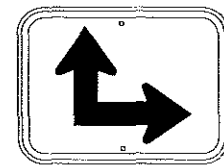
M4-5 24"x12"



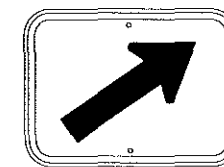
M4-6 24"x12"



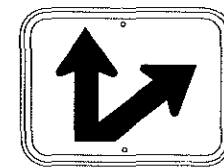
M6-1 21"x15"



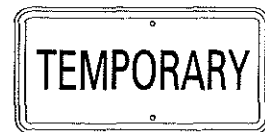
M6-6(R) 21"x15"



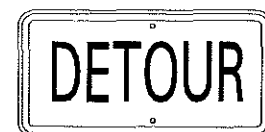
M6-2(R) 21"x15"



M6-7(R) 21"x15"



M4-7 24"x12"



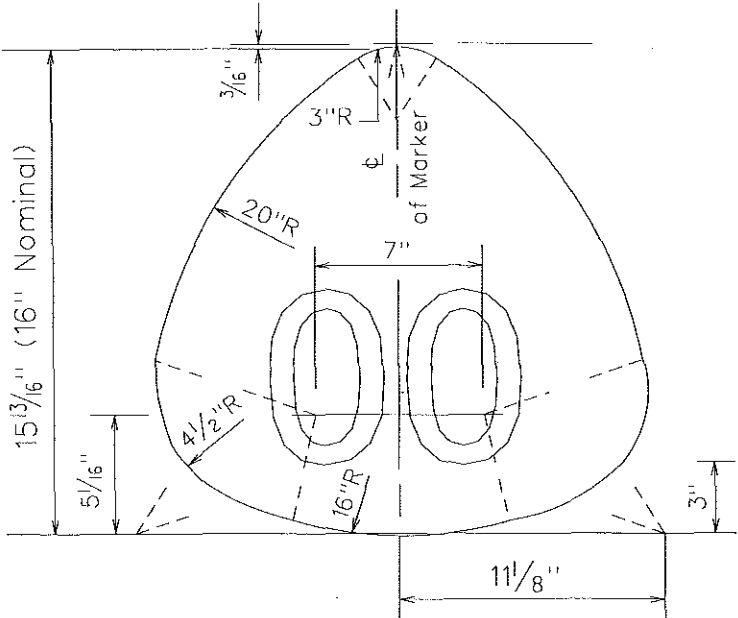
M4-8 24"x12"

AUXILIARY MARKERS

The work was prepared by me or under my supervision and construction of this project will be in accordance with the expiration date of license 4/06.	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION
	SPECIAL 633 (HDOT STD TE-12) STATE ROUTE MARKER AUXILIARY MARKERS
	Scale: N.T.S. Date: December 5, 2005 SHEET No. 1 OF 1

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) # 200(1)	P47	P61

MARKER SIZE	MULTIPLY DIMENSIONS BY	NUMERAL SIZE
		2 Digit-Series D 3 Digit-Series C
21"	1.3	8"
32"	2.0	12"
42"	2.63	16"

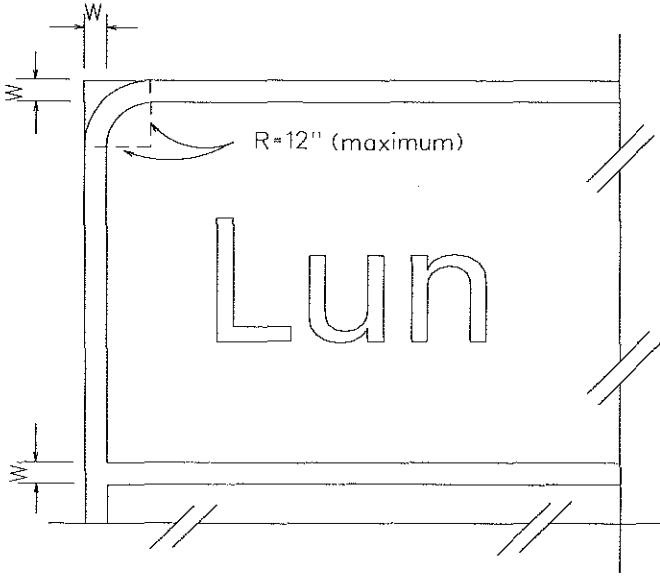


STATE ROUTE MARKER
FOR GUIDE SIGNS

NOTE:

1. State Route Markers on Guide signs shall have black numerals on a white reflectorized background mounted on a flat aluminum cut-out.
2. Numerals shall conform to the latest editions of FHWA publication "Standard Alphabets for Highway Signs" and as amended.
3. Cut-outs shall be fastened on sign panel with aluminum blind rivets. See Standard Specifications.

RADII FOR SIGNS		
Least Dimension of Sign	W	R
2'-0" to 4'-6"	2"	3"
4'-9" to 5'-6"	2"	6"
5'-9" to 7'-6"	2"	9"
7'-9" and greater	2"	12"



BORDER DETAIL
FOR GUIDE SIGNS

NOTE:

1. Area outside corner radius need not be trimmed.
2. All borders shall be white reflectorized cut-outs.
3. All Guide signs shall have borders.

The work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of License 4/06

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

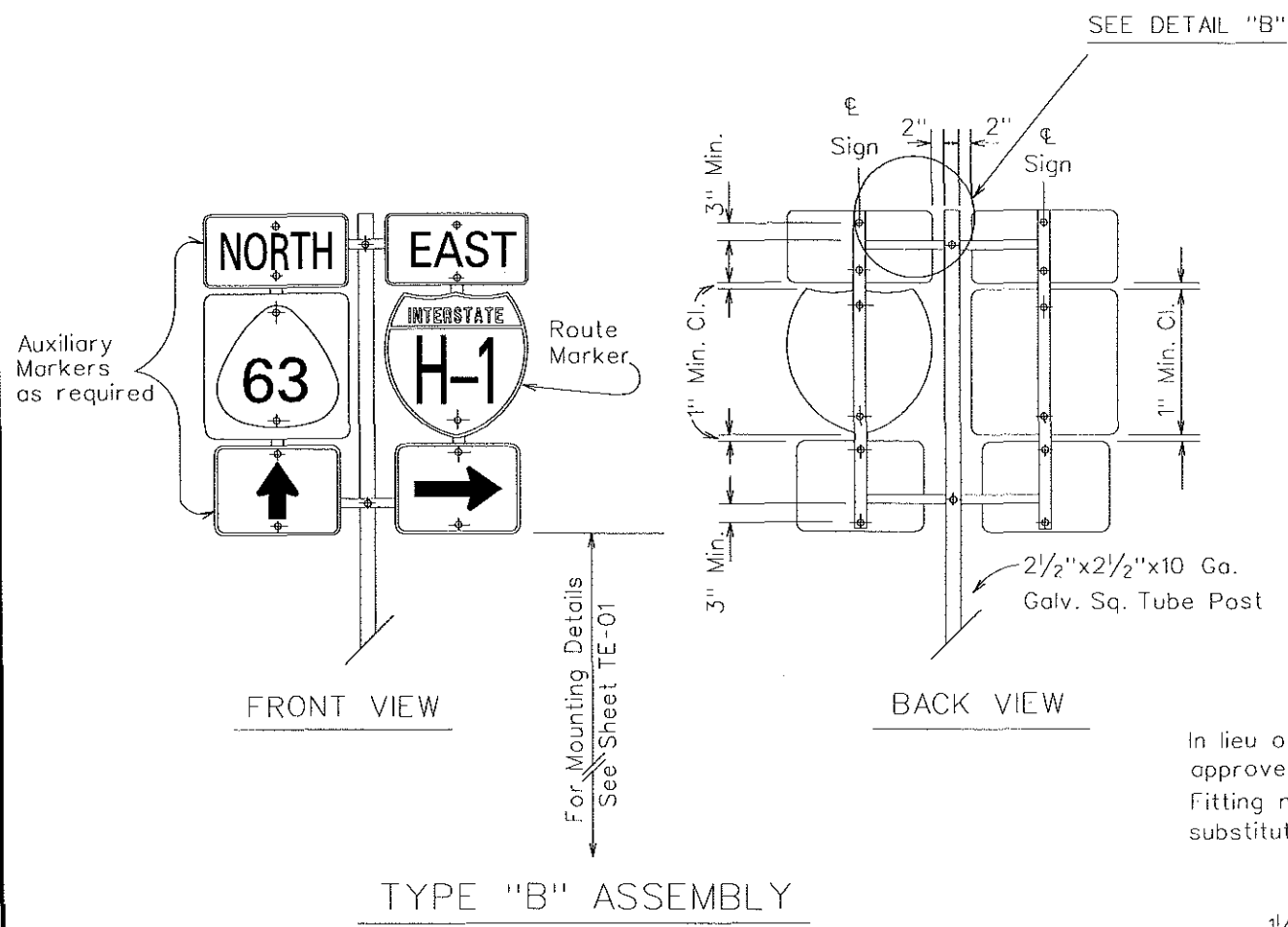
SPECIAL 633 (HDOT STD TE-14)
STATE ROUTE MARKER #
BORDER DETAIL FOR GUIDE SIGNS

Scale: N.T.S. Date: December 5, 2005

SHEET No. 1 OF 1

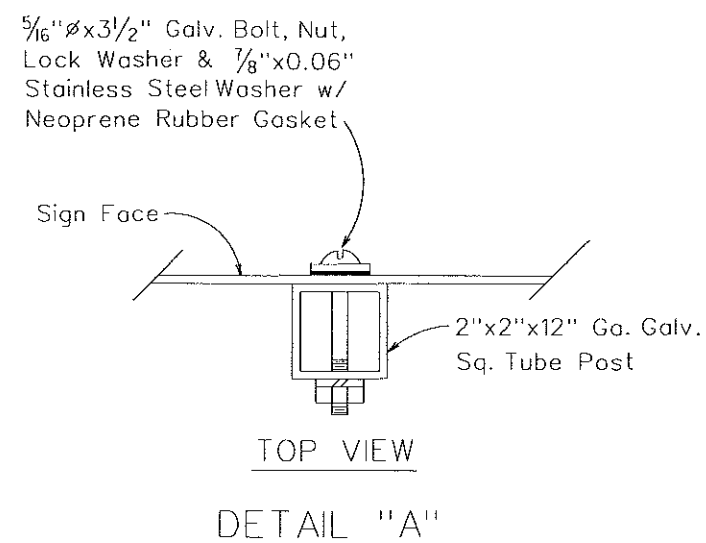
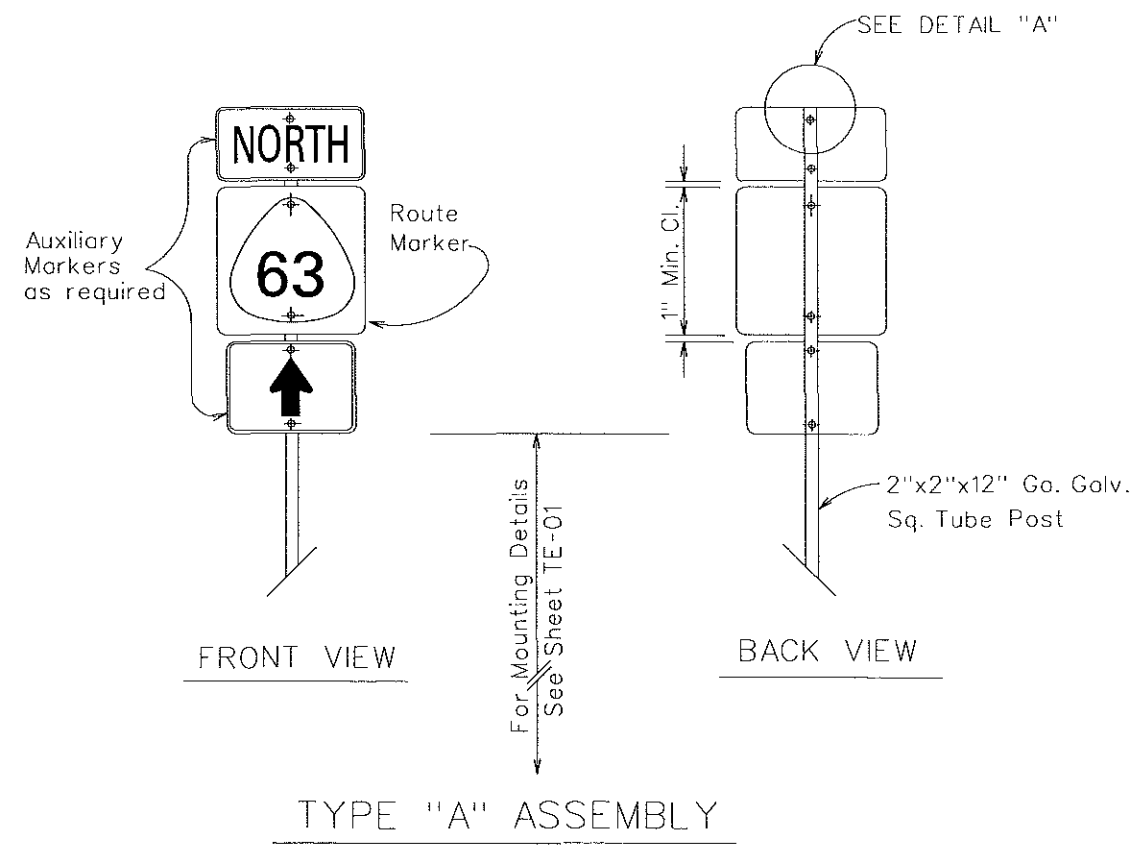
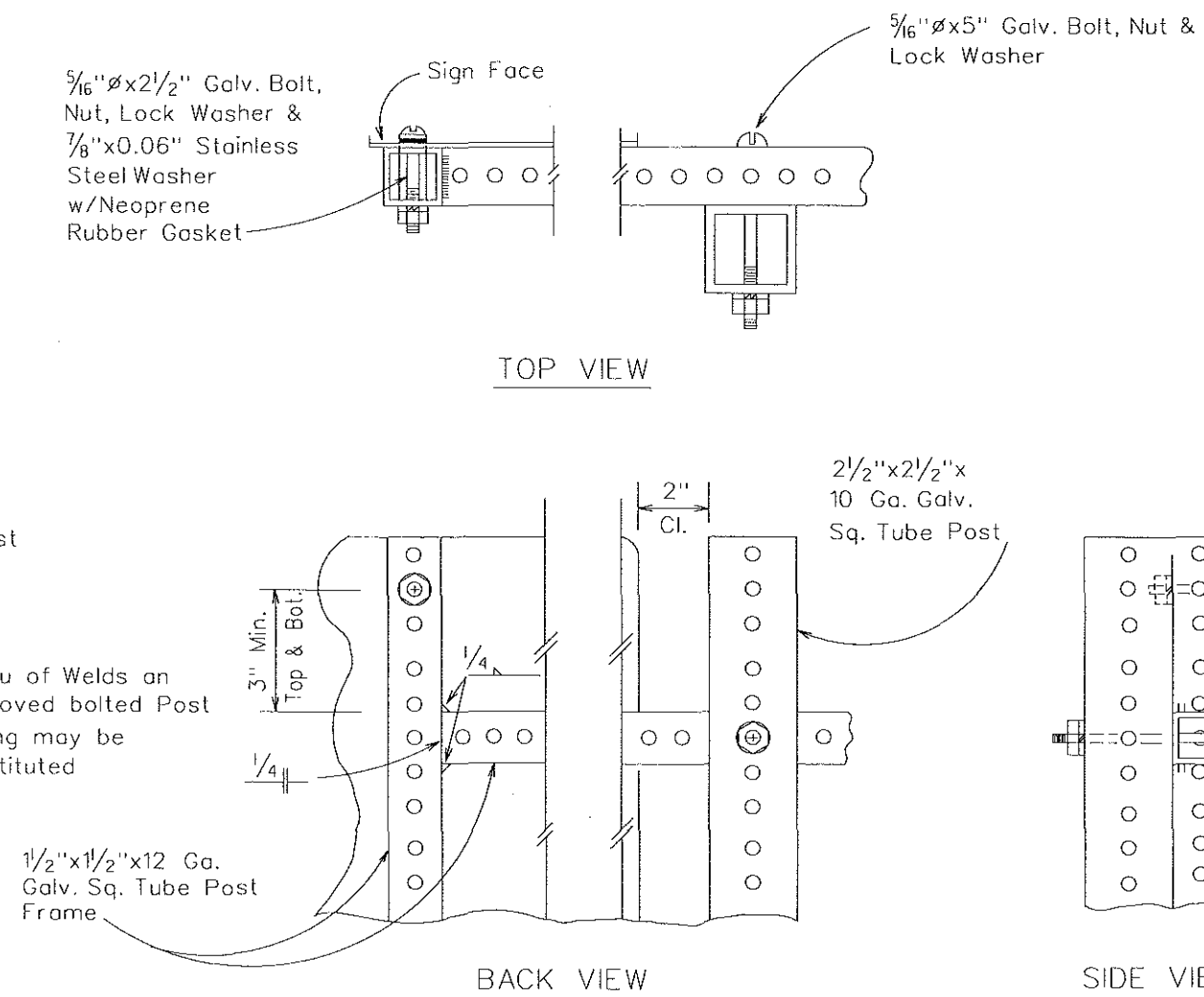
M:\Mproj\lennie\205009\sheet\sttp047.dgn

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) # 200(1)	P48	P61



In lieu of Welds an approved bolted Post Fitting may be substituted

1 1/2"x1 1/2"x12 Ga. Galv. Sq. Tube Post Frame



The work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date of License 4/06

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SPECIAL 633 (HDOT STD TE-15)

ROUTE MARKER ASSEMBLIES

Scale: N.T.S. Date: December 5, 2005

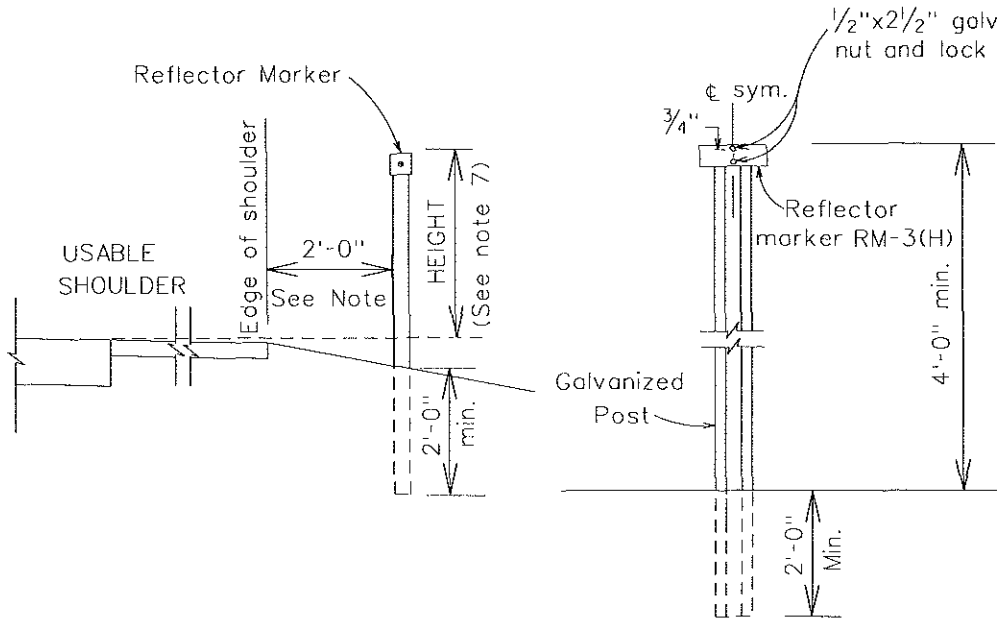
SHEET No. 1 OF 1

U:\Mproj\Lenzie\205009\sheet\stnp048.dgn

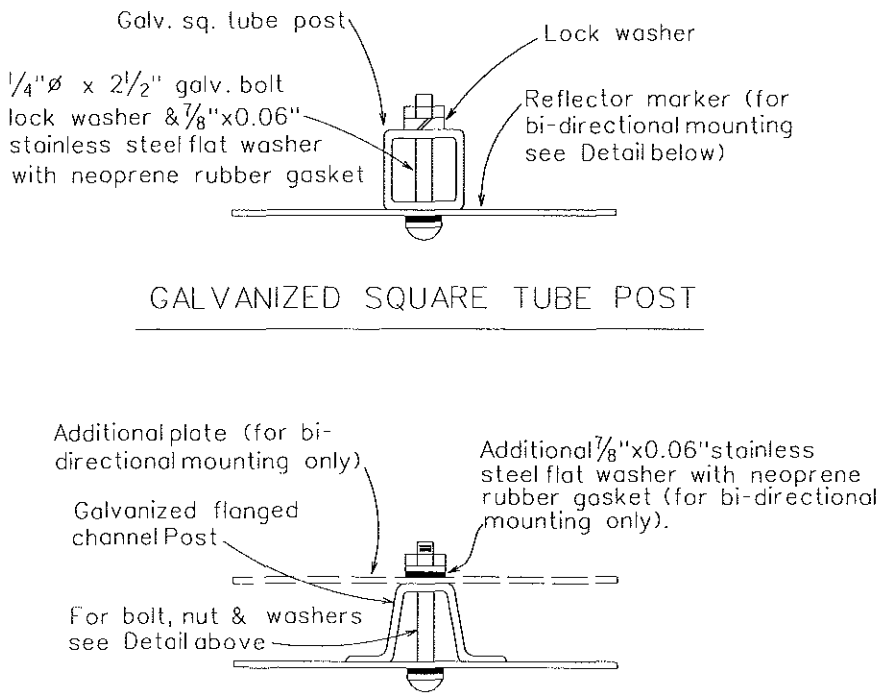
STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) # 200(1)	P49	P61

GENERAL NOTES:

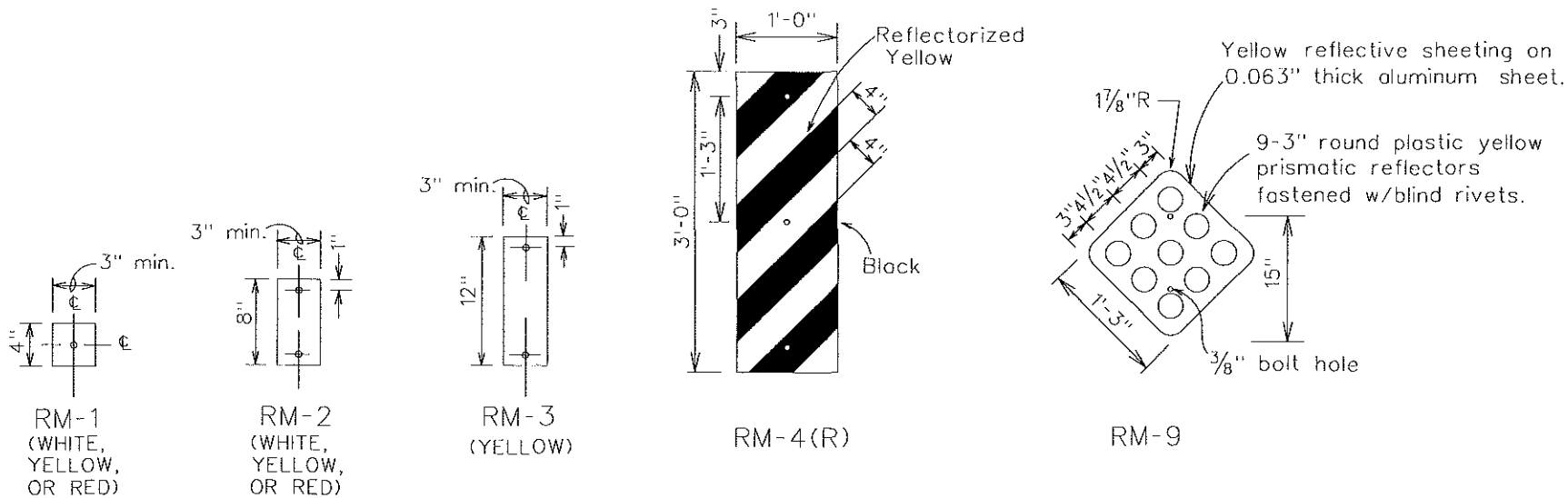
1. Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
2. (R) or (L) indicates right or left and shall be as shown on the plans.
3. Reflector markers RM-1 and RM-2 shall be:
 - a) Yellow if placed along the left edge of divided roadways, one-way roadways, and ramps in the direction of travel.
 - b) White if placed along the right edge of divided roadways, one-way roadways, and ramps in the direction of travel.
4. For RM-4, the stripes shall slope downward at an angle of 45° toward the side of the obstruction that traffic is to pass.
5. For reflector marker RM-9, reflective sheeting material may be used as an alternate.
6. (H) indicates horizontal mounting of reflector marker.
7. Height=4'-0" min. for RM-1, RM-2 and RM-3. Height=5'-6" min. for RM-4 and RM-9.
8. Final locations of reflector markers shall be approved by the Contracting Officer.



REFLECTOR MARKER MOUNTING DETAIL



TYPICAL MOUNTING DETAILS



REFLECTOR MARKERS

Note:

The marker used for the end of a roadway shall be an RM-9 reflectORIZED with red reflective sheeting.

The work was prepared by me or under my supervision and construction of this project will be in accordance with the expiration date of license 4/06.

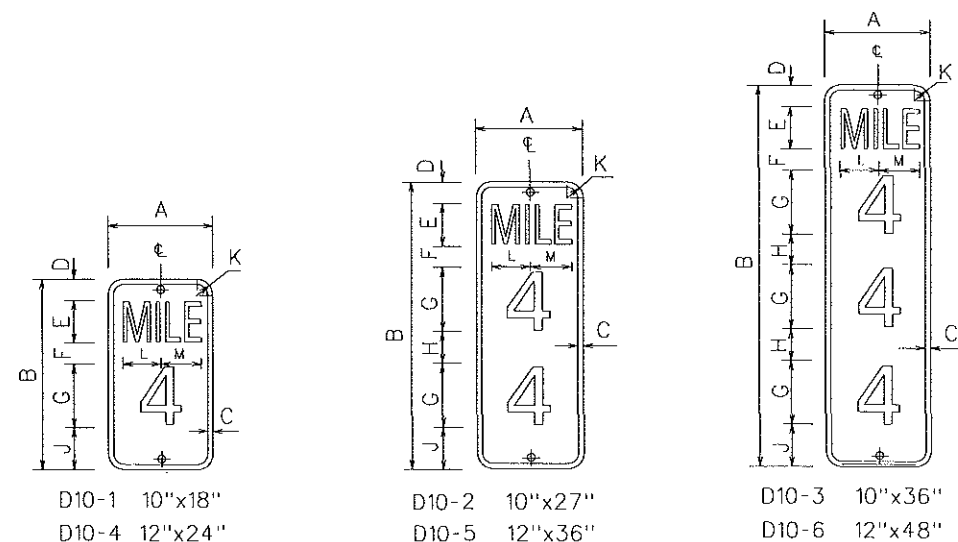
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SPECIAL 633 (HDOT STD TE-16)

MISCELLANEOUS REFLECTOR MARKERS

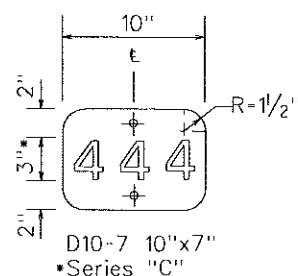
Scale: N.T.S. Date: December 5, 2005

SHEET No. 1 OF 1

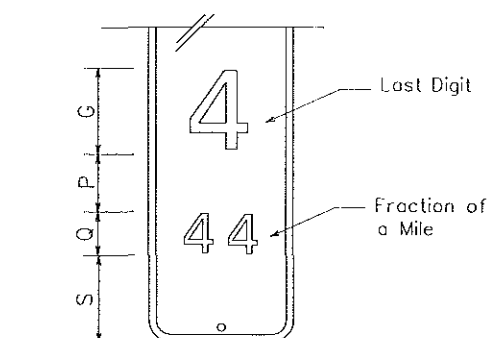


MILEPOST MARKER PLATE DETAILS

MILEPOST PLATE SCHEDULE (INCHES)															
NAME	SIZE	A	B	C	D	E	F	G	H	J	K	L	M	LETTER SERIES	NUMERAL SERIES
D10-1	10x18	10	18	1/2	2	4	2	6		4	1 1/2	3 5/8	3 3/8	B	C
D10-4	12x24	12	24	1/2	3	4	3	10		4	1 1/2	4 5/8	4 1/8	C	C
D10-2	10x27	10	27	1/2	2	4	2	6	3	4	1 1/2	3 5/8	3 3/8	B	C
D10-5	12x36	12	36	1/2	3	4	3	10	3	4	1 1/2	4 5/8	4 1/8	C	C
D10-3	10x36	10	36	1/2	2	4	2	6	3	4	1 1/2	3 5/8	3 3/8	B	C
D10-6	12x48	12	48	1/2	3	4	3	10	2 1/2	3	1 1/2	4 5/8	4 1/8	C	C

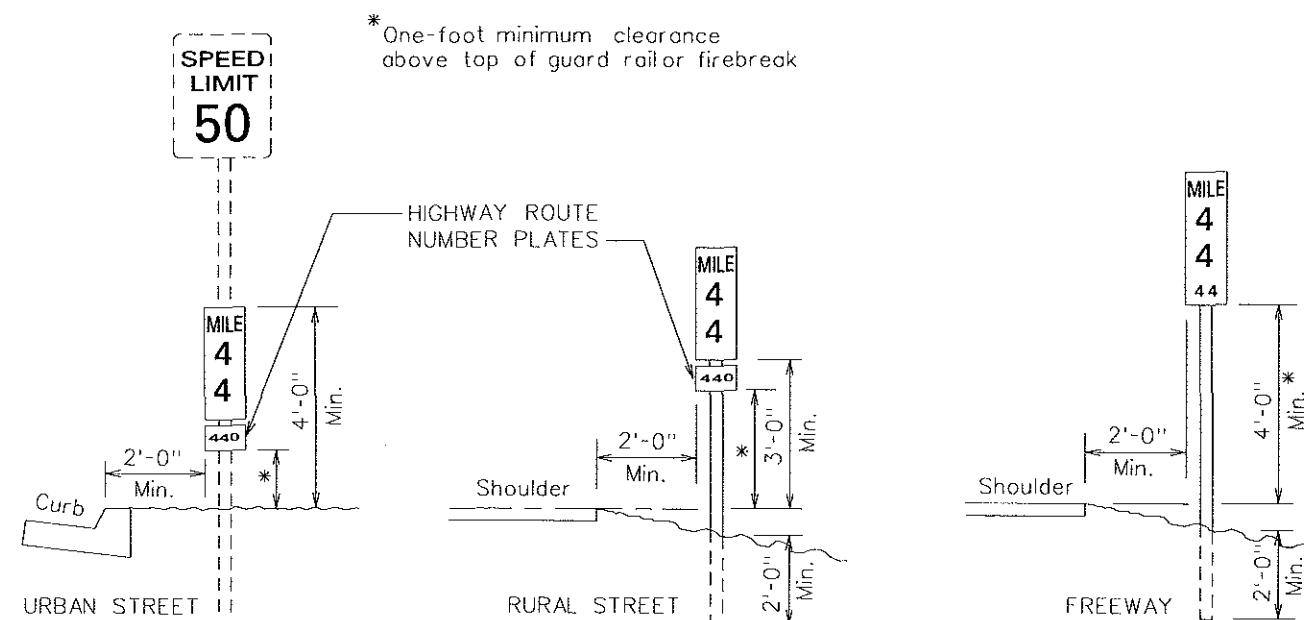


HIGHWAY ROUTE NUMBER
PLATE DETAIL



MILEPOST MARKER
FRACTION DETAIL

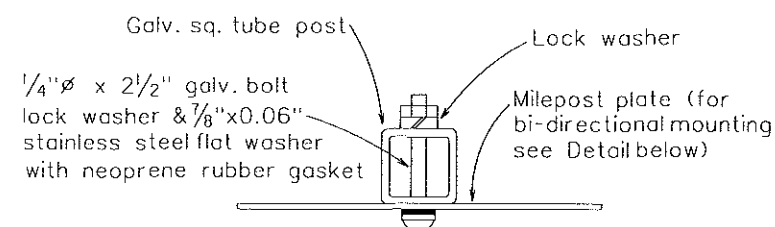
MILEPOST PLATE SCHEDULE WITH FRACTION OF A MILE						
NAME	SIZE	G	P	Q	S	NUMERAL SERIES
D10-1a	10"x27"	6"	4"	3"	6"	C
D10-4a	12"x36"	10"	4"	3"	6"	C
D10-2a	10"x36"	6"	4"	3"	6"	C
D10-5a	12"x48"	10"	4"	3"	6"	C
D10-3a	10"x45"	6"	4"	3"	6"	C
D10-6a	10"x60"	10"	4"	3"	6"	C



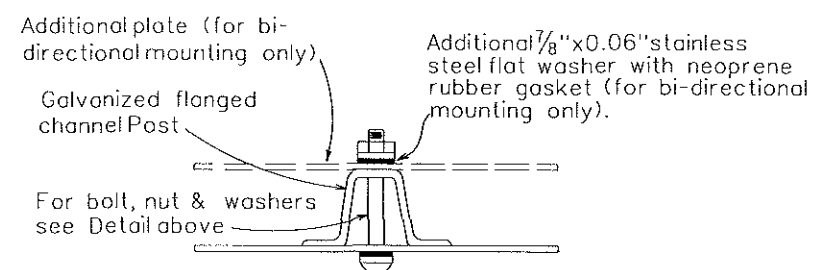
TYPICAL ROADSIDE INSTALLATION

GENERAL NOTES:

- Milepost marker and highway route number plates shall conform to the latest editions of the following FHWA publications:
 - "Standard Alphabets for Highway Signs," and as amended.
 - "Standard Highway Signs," and as amended.
 - "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
- Milepost markers and highway route numbers shall be completely reflectorized w/reflective sheeting as follows:
 - Milepost markers shall have white legends and border on a green background.
 - Highway route numbers shall have black numerals on a white background.
- The plate backings for milepost markers and highway route numbers shall conform to the requirements for standard highway signs. The plates shall have 3/8" bolt holes drilled at appropriate locations.
- Highway route number plates shall be used in conjunction w/milepost marker plates on all roadways, except interstate freeways. Fabrication and installation costs of highway route number plates shall be considered incidental to the milepost marker assembly.
- Milepost markers shall be installed on all roadways as follows:
 - One milepost on each side of multi-lane roadways.
 - Back-to-back mileposts on one side of 2-lane roadways. (Right side of roadway in direction of increasing mileage.)



GALVANIZED SQUARE TUBE POST

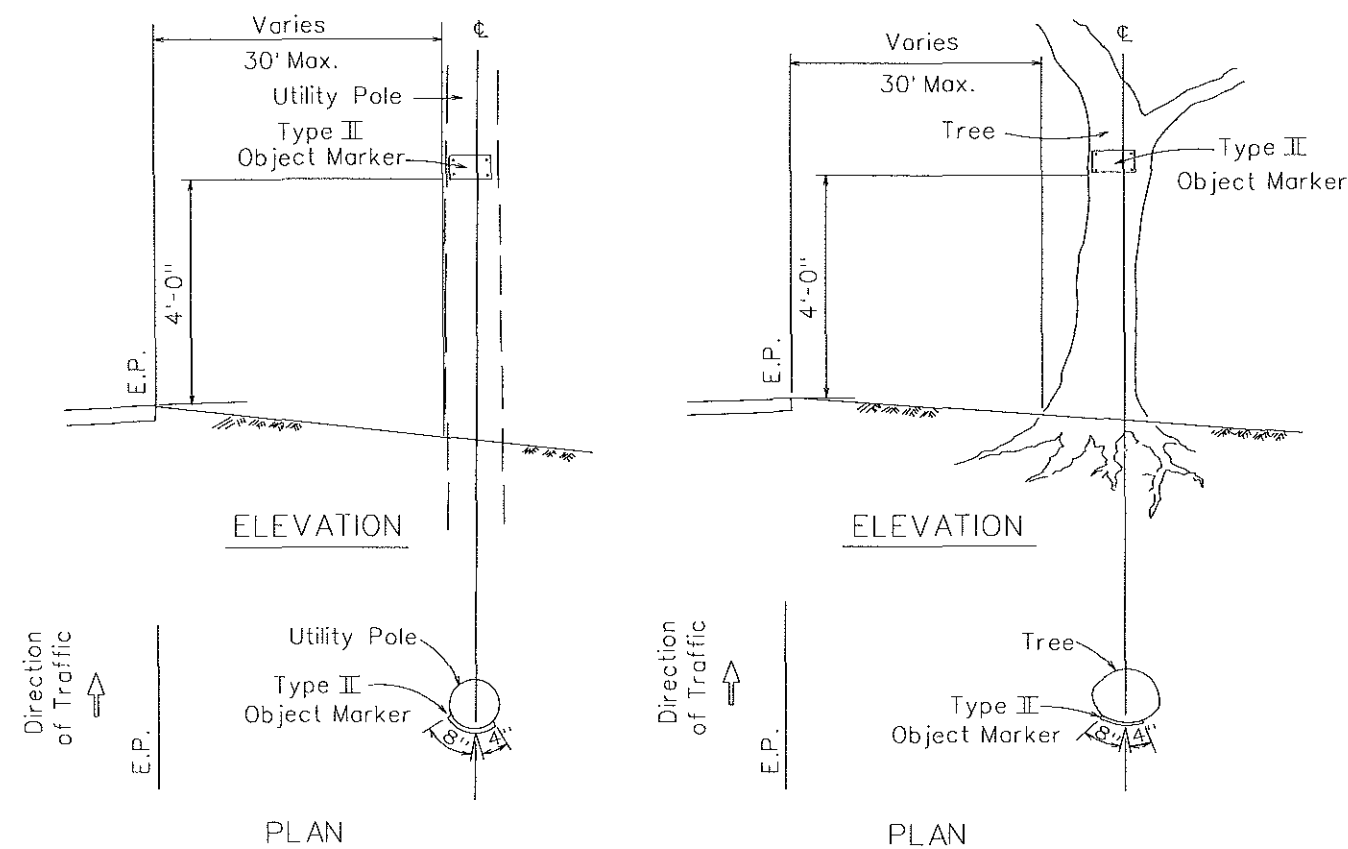


GALVANIZED FLANGED CHANNEL POST

TYPICAL MOUNTING DETAILS

The work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of License 4/08.	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
	SPECIAL 633 (HDOT STD TE-18)	
	MILEPOSTS	
	Scale: N.T.S.	Date: December 5, 2005
SHEET No. 1 OF 1		

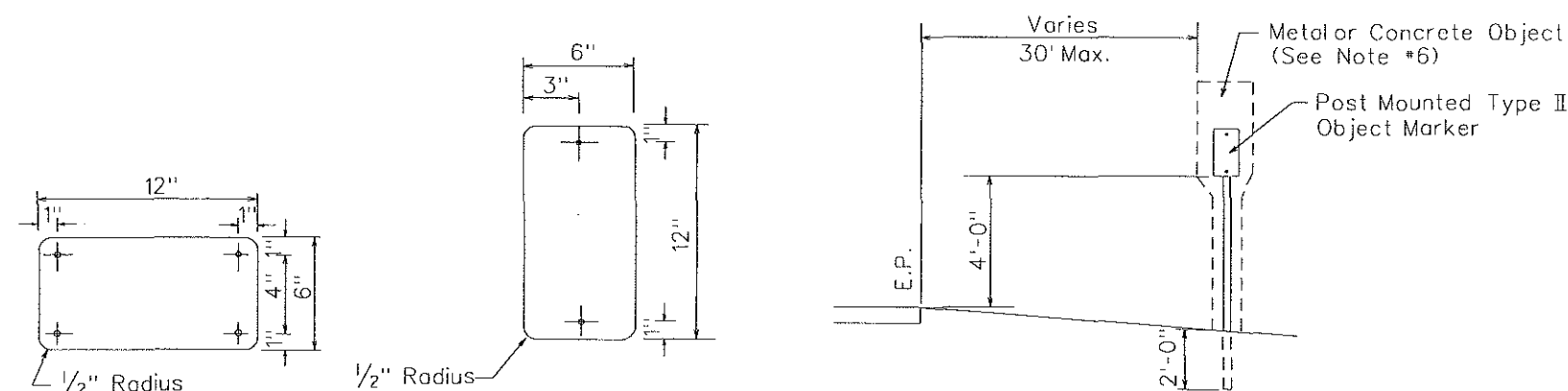
STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) \$ 200(1)	P51	P61



TYPICAL TYPE II OBJECT MARKER MOUNTING DETAIL

GENERAL NOTES

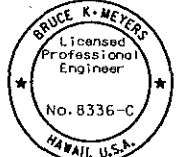
1. All objects (utility poles or trees) that are within the State highway right of way and within 30 feet of the roadway edge of pavement shall be marked as directed by the Contracting Officer.
2. The Contractor shall prepare the mounting surface of each object as directed by the Contracting Officer and place the Type II Object Marker as shown on this plan.
3. Type II Object Markers shall be mounted on utility poles and trees with 1 3/4" galv. roofing nails (4 ea.).
4. Branches of trees which obscure the object markers shall be trimmed. (Payment shall be incidental to Type II Object Markers as shown in the proposal).
5. Type II Object Markers for utility poles and trees, etc., shall be made of amber reflective sheeting material overlayed on 0.020" aluminum sheeting.
6. Objects such as concrete posts, concrete or rock walls and boxes, metal posts (greater than 2" in diameter), or metal boxes shall be marked with post mounted object markers. Post mounted Type II Object Markers shall conform to the following requirements:
 - a. It shall consist of amber reflective sheeting material overlayed on 0.063" thick sheet aluminum backing of the dimensions shown on the plans.
 - b. It shall be mounted on either metal posts or flexible delineator posts with 1/4"x2" galv. bolts, nuts and washers. Metal posts shall be galvanized and shall be either 1 1/2"x1 1/2", 12 gage square tube posts or 1.12 lbs. per ft. flanged channel posts.



TYPE II
OBJECT MARKER

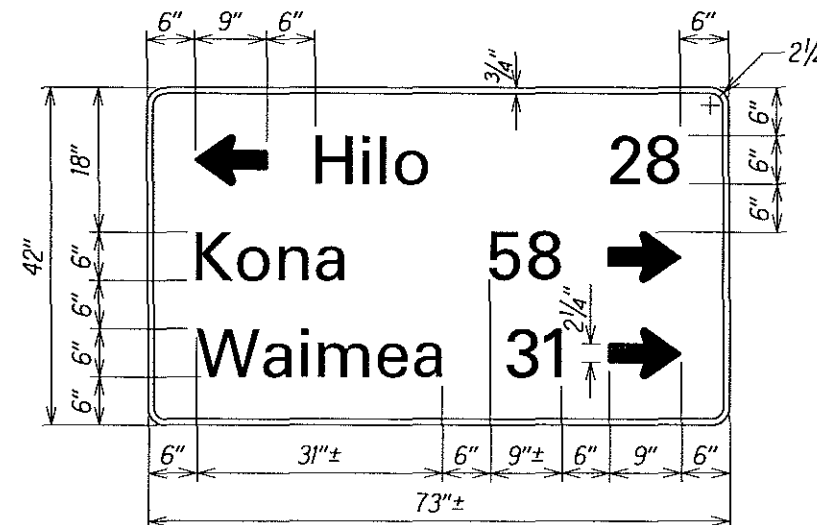
TYPE II
OBJECT MARKER
POST MOUNTED

POST MOUNTED
TYPE II OBJECT
MARKER DETAIL

 The work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of License 4/06	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION SPECIAL 633 (HDOT STD TE-17) TYPE II OBJECT MARKERS
	Scale: N.T.S. Date: December 5, 2005
	SHEET No. 1 OF 1

SIGN NOTES

- Letter Size:
 - Use series "E" when letters are all uppercase.
 - User series "E" (M) when initial uppercase letter is used in conjunction with lowercase letters.
- All signs shall conform to Section 633 of the Special Contract Requirements and the latest editions and amendments of the following FHWA publications:
 - "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD 2003)
 - "Standard Highway Signs"
 - "Standard Alphabets for Highway Signs"
- Borders, messages, arrows, symbols and shield shall conform to details as shown on the plans and as specified in the MUTCD.
- Sign messages are as indicated on the plan.
- All panels are Retroreflective in accordance with Section 718 of the Special Contract Requirements. Minimum width of panels are 2 ft. Abutting edges of panels are in only one direction if vertical abutting edges are used. No horizontal abutting edges are allowed and vice versa.
- Contractor submits all sign splicing details to the Contracting Officer for approval. All backing for signs 4 feet by 6 feet or less are of one sheet.
- Backing for all new Regulatory and Warning Signs are not spliced.
- Final locations of all signs are approved by the Contracting Officer prior to any Installation work.
- Existing signs that are to be replaced, are not removed until new signs are Installed as replacements, or the messages are no longer necessary.
- Existing signs not shown on these plans are to remain as posted unless otherwise directed by the Contracting Officer. Removal and disposal of existing signs and/or posts as designated on these plans are incidental to the various signing items.
- Removal of Existing Delineators and Posts are considered incidental to the various signing items.
- All Destination, Street Name, and Non-Standard Signs, that are removed and Installed at the same or new location, are identical to the existing sign in size and text. The Contractor submits Shop Drawings to the Contracting Officer for approval prior to fabricating the sign.
- All 3-post signs are Installed on flanged channel posts, 1 & 2-post signs may use square tubing or flanged channel posts.
- Mount Sign Posts with RM-3 reflector markers as directed in the field by the Contracting Officer.
- Paint sign posts with yellow reflective paint, except where located behind guardrails. Such paint work shall be considered incidental to sign items.
- Shoulder Rumble Strip signs shall be installed 50 feet before the first rumble strip depression. End Rumble Strip signs shall be installed 50 feet beyond the last rumble strip depression.
- Use 4" series C letters black legend on reflectorized yellow background.



- NOTE:
- Sign D1-3a shall have a white retroreflective legend and border on a green retroreflective background.

D1-3a

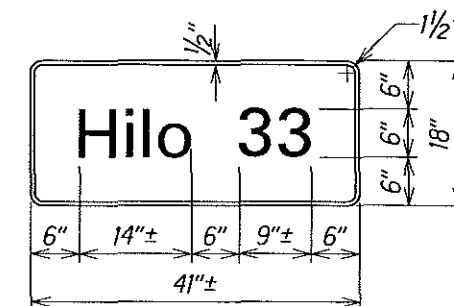
East-Bound

Beg Station	End Station	Length (ft)
370+00	379+00	900
409+00	452+50	4350
493+00	506+00	1300
529+00	546+00	1700
647+00	655+00	800
711+50	724+00	1250
810+00	814+00	400
854+00	869+00	1500
910+00	937+00	2700
967+00	1005+00	4200
1043+50	1078+00	3450
1123+00	1147+00	2400

West-Bound

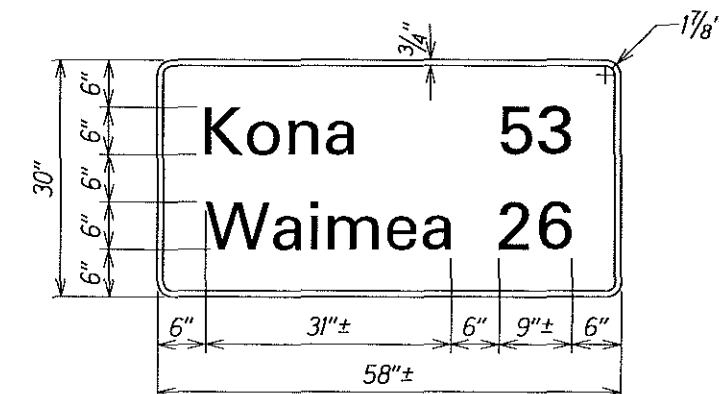
Beg Station	End Station	Length (ft)
743+00	731+00	1200
674+00	666+00	800
565+00	548+00	1700
525+00	512+00	1300
471+50	430+00	4150

PASSING ZONE SCHEDULE



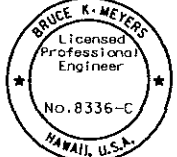
- NOTE:
- Sign D2-1 shall have a white retroreflective legend and border on a green retroreflective background.

D2-1

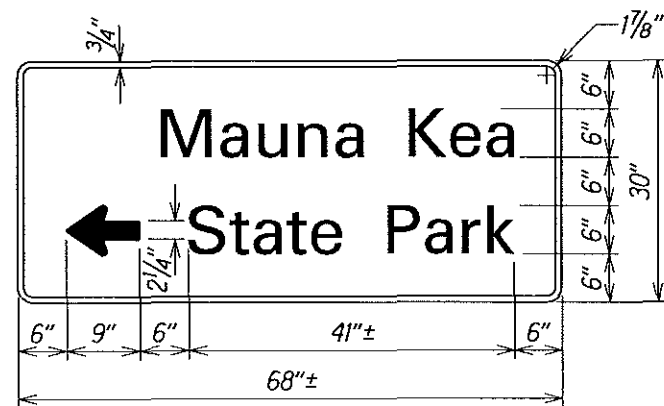


- NOTE:
- Sign D2-2 shall have a white Retroreflective legend and border on a green Retroreflective background.

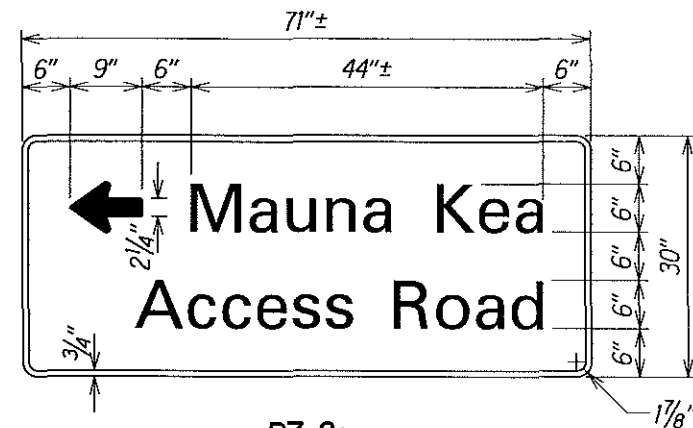
D2-2

 The work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of License 3/06	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION SADDLE ROAD SIGN NOTES, DETAILS, & PASSING SCHEDULE Scale: N.T.S. Date: December 5, 2005 SHEET No. 1 OF 4
	P53

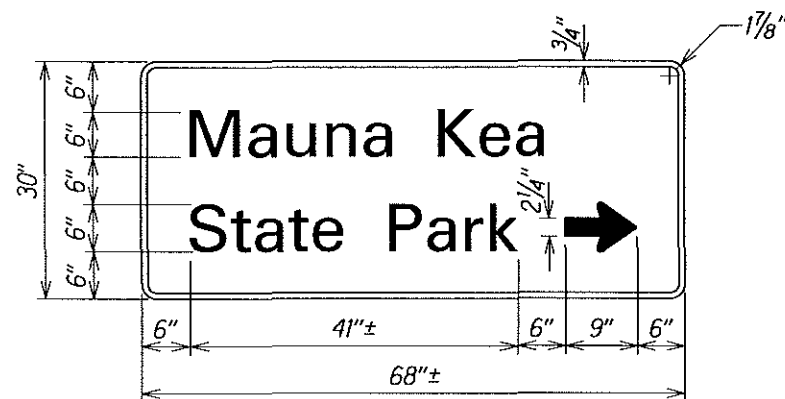
STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200(1)	P54	P61



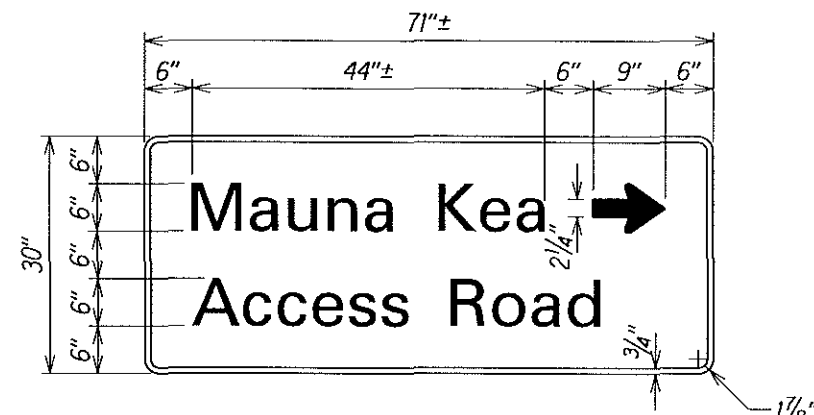
D7-2a



D7-2c



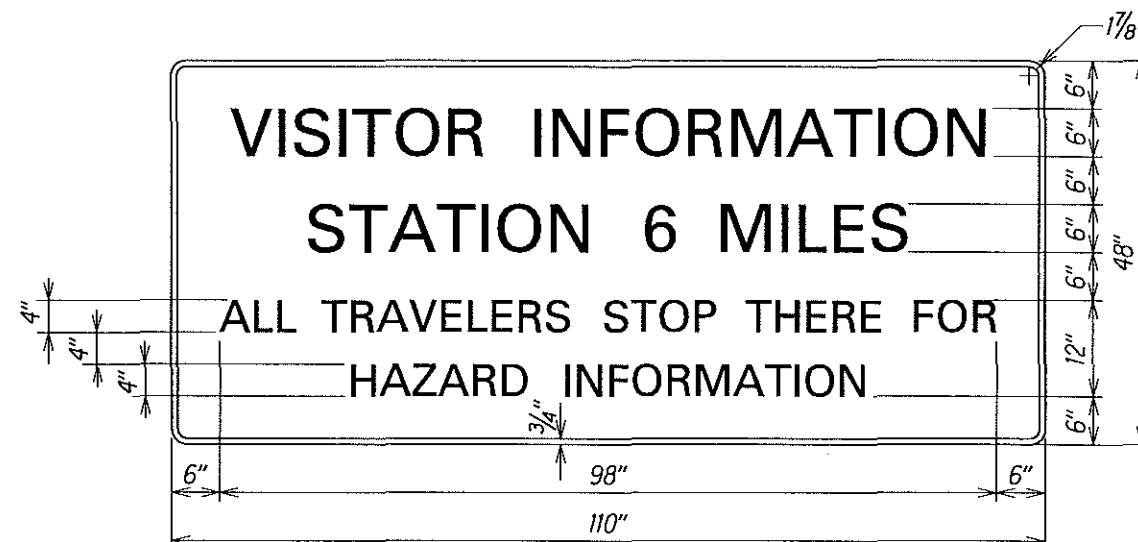
D7-2b



D7-2d

NOTE:

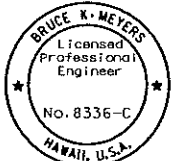
1. Sign D7-2a - D7-2d shall have a white retroreflective legend and border on a brown background.



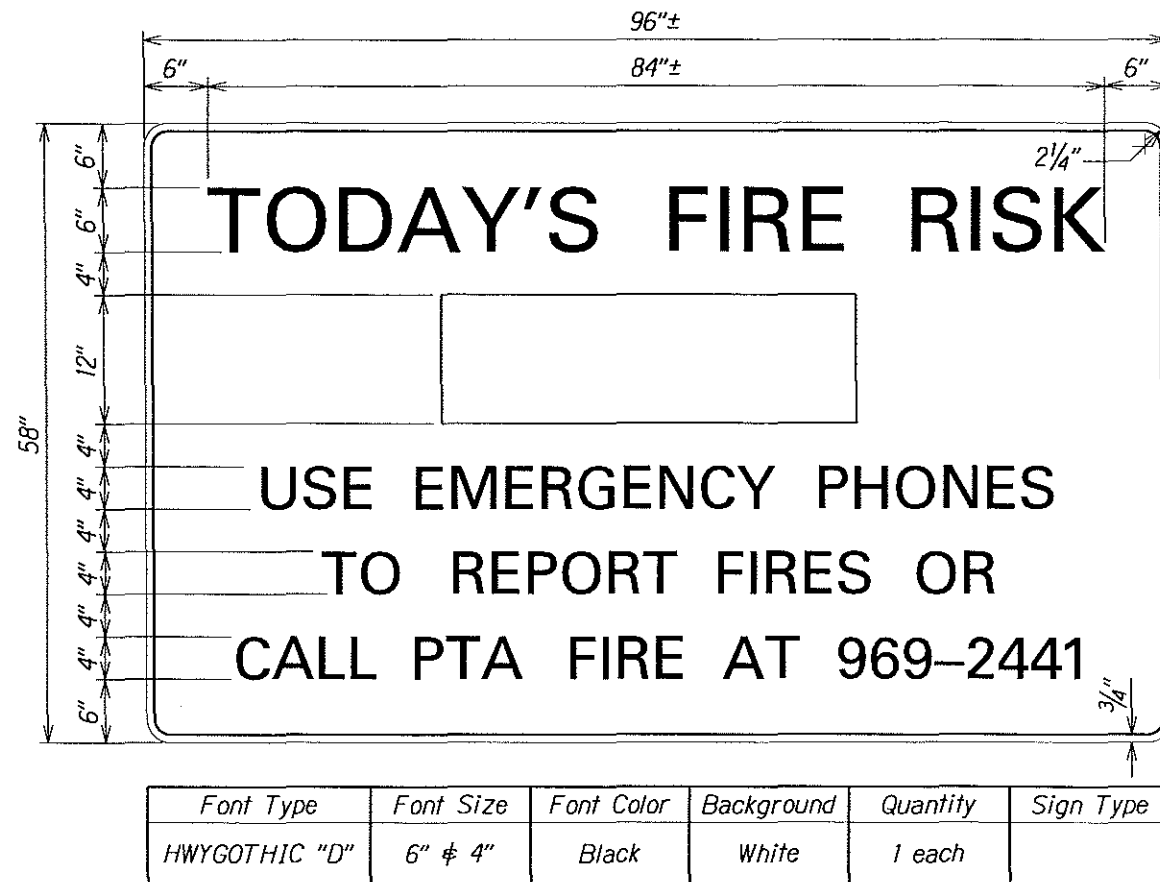
D5-7

NOTE:

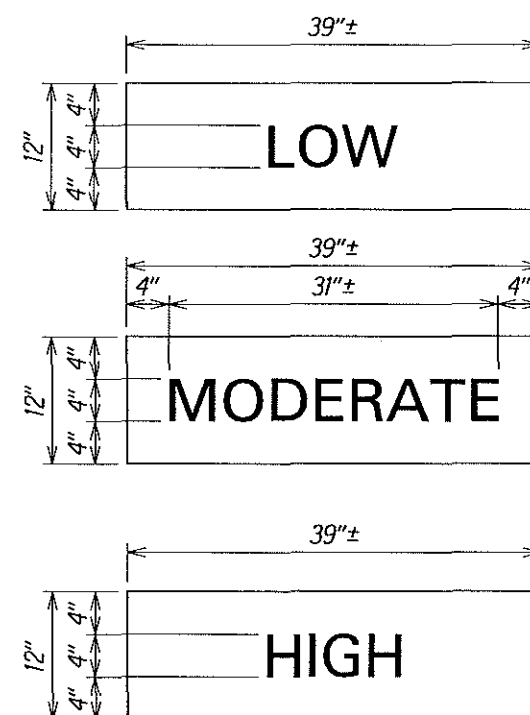
1. Sign D5-7 shall have a white retroreflective legend and border on a blue retroreflective background.

 The work was prepared by me or under my supervision and construction of this project will be under my observation. Expiration Date of License 4/06	U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION
	SADDLE ROAD SIGN DETAILS
	Scale: N.T.S. Date: December 5, 2005

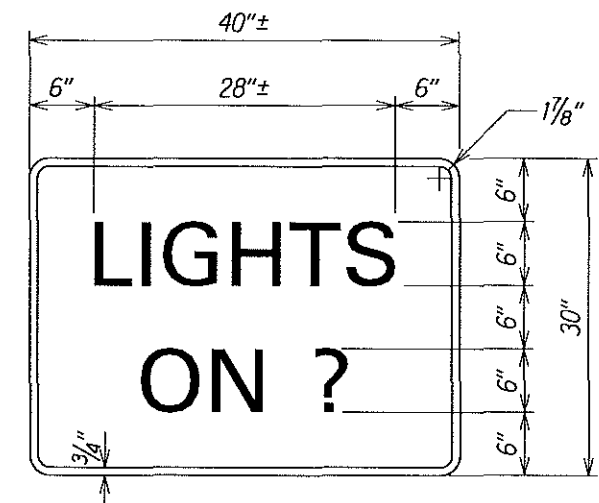
STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) # 200X11	P55	P61



FIRE RISK SIGN



INTERCHANGEABLE
RISK SIGNS



NOTE:
Sign shall have a black
legend and border on a
white retroreflective
background.

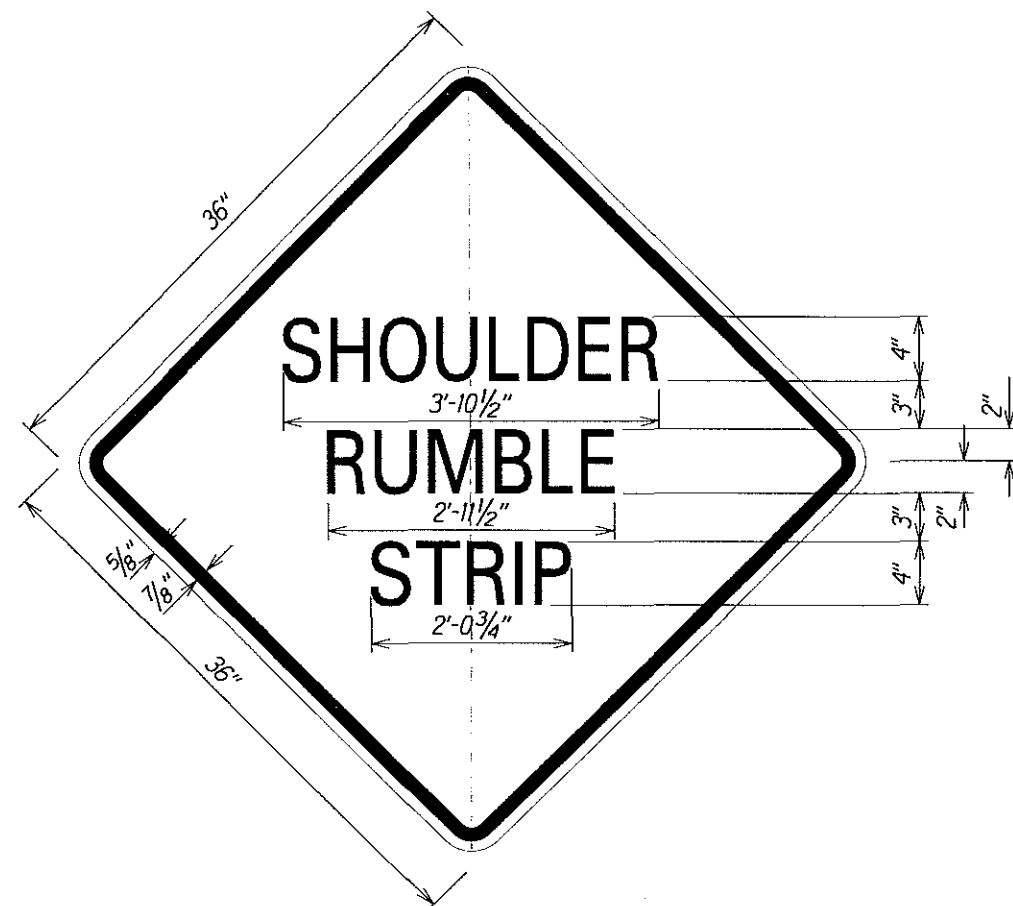
LIGHTS ON?

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SADDLE ROAD SIGN DETAILS

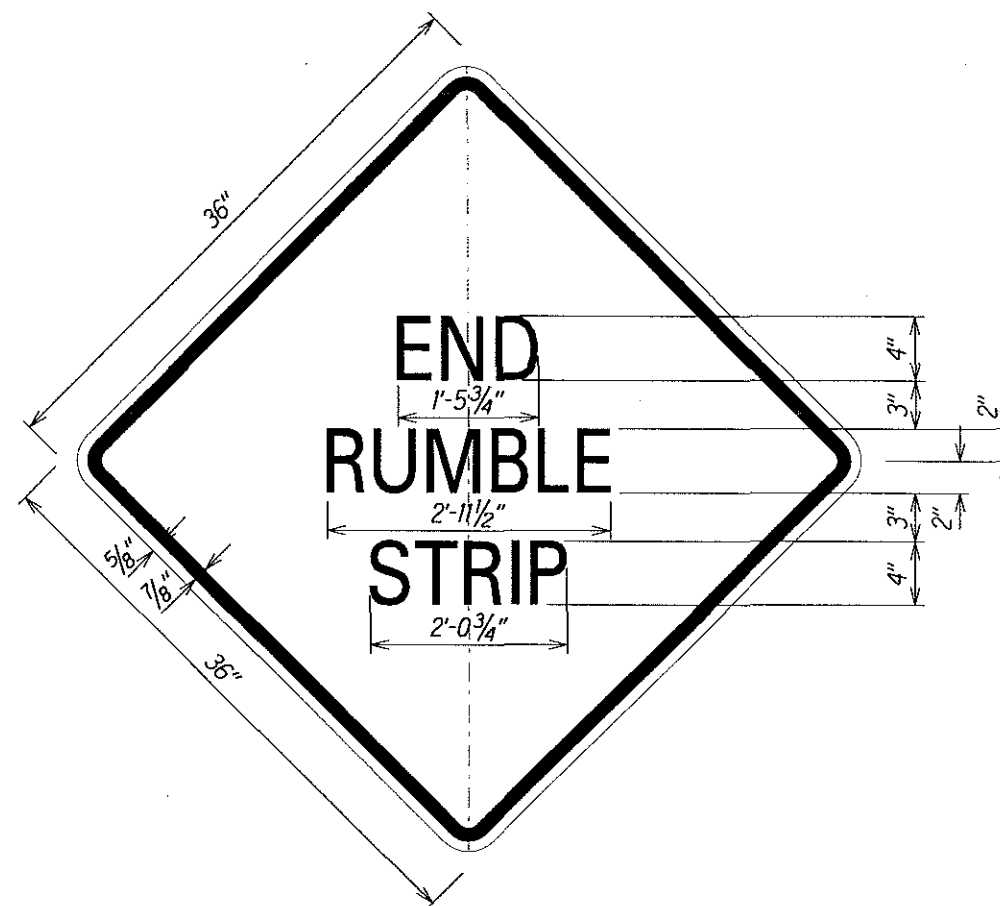
Scale: N.T.S. Date: December 5, 2005

SHEET No. 3 OF 4



SHOULDER RUMBLE STRIP SIGN

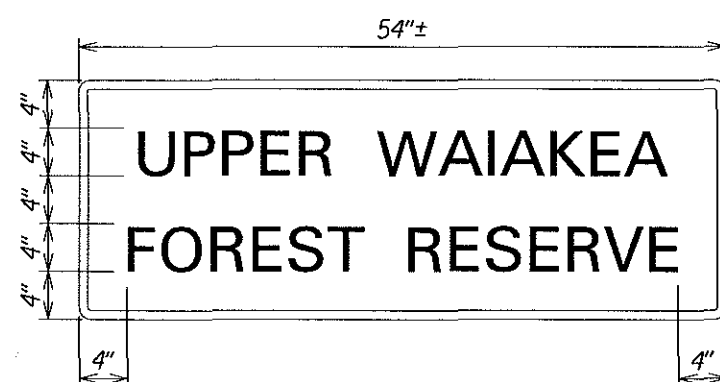
Install at stations listed on the table at right per item number 63301 Sign Installation. See Sheets P1 thru P39.



END RUMBLE STRIP SIGN

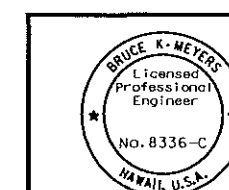
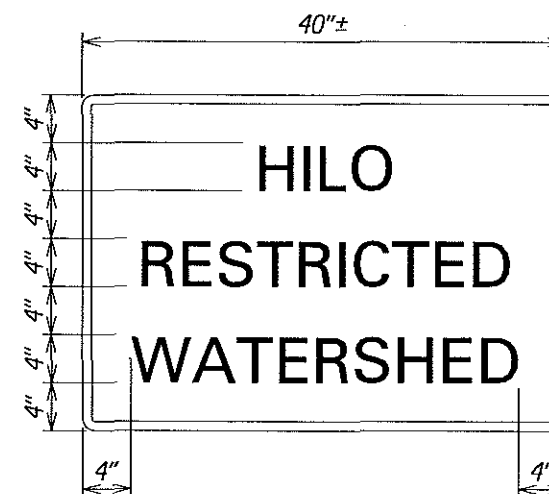
Install at stations listed on the table at right per item number 63301 Sign Installation. See Sheets P1 thru P39.

Rumble Strip Sign Installation Schedule		
Station	Begin	End
T.S. 9+50 R	●	
364+75 L		●
661+75 R		●
662+75 R	●	
685+75 L	●	
685+75 R		●
687+50 L		●
687+50 R	●	
699+25 R		●
700+75 R	●	
1048+50 L	●	
1049+50 L		●
1160+50 L	●	
1160+50 R		●



NOTE:

1. "Hilo Restricted Watershed" and "Upper Waiakea Forest Reserve" shall have a yellow legend and border on a brown background.



The work was prepared by me or under my supervision and construction of this project will be under my observation.
 Expiration Date of License 3/2006

U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION
 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

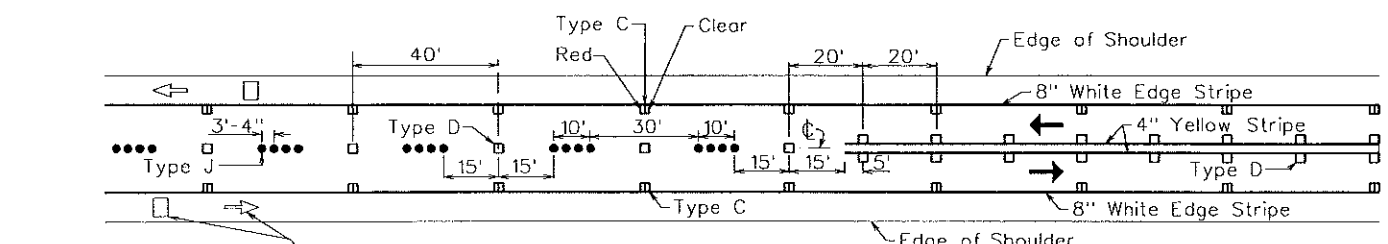
SADDLE ROAD SIGN DETAILS

Scale: N.T.S.

Date: December 5, 2005

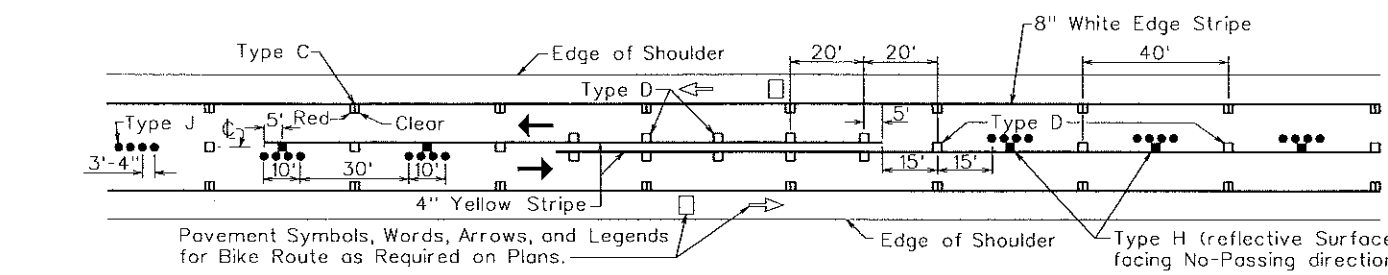
SHEET No. 4 OF 4

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) \$ 200K1	P57	P61



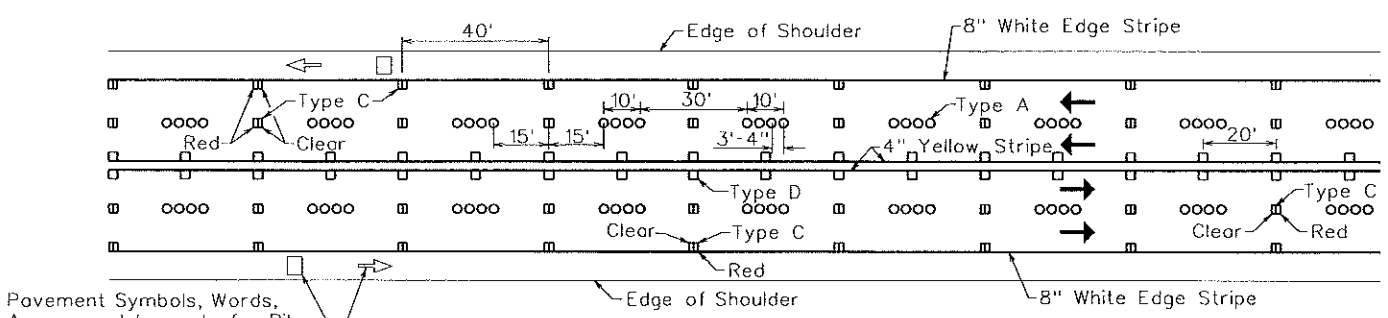
Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

PASSING PERMITTED AND PASSING PROHIBITED

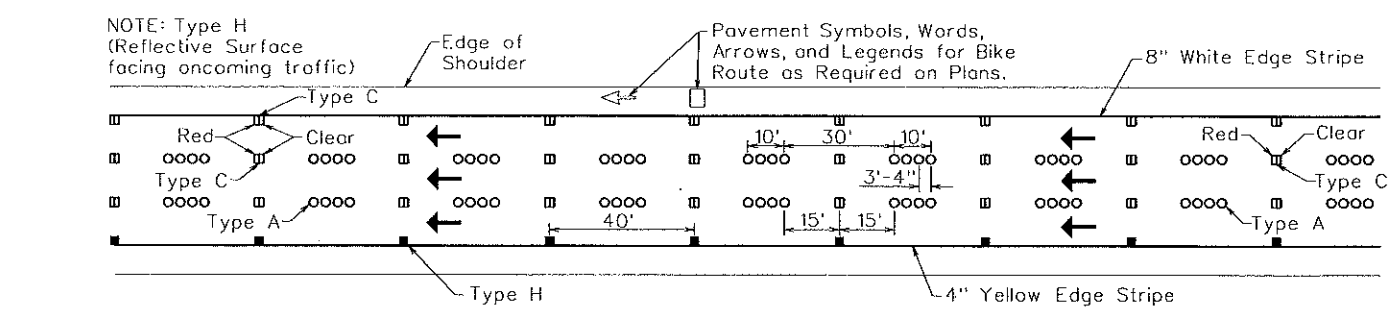


Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

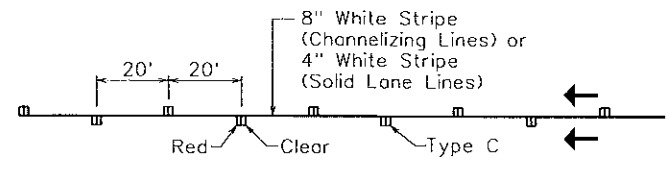
PASSING PROHIBITED ZONES



Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

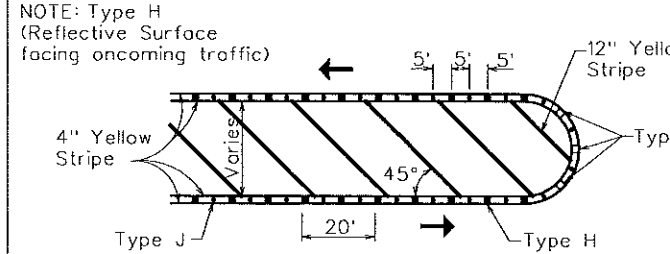


Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.



Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

CHANNELIZING LINES OR SOLID LANE LINES



Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

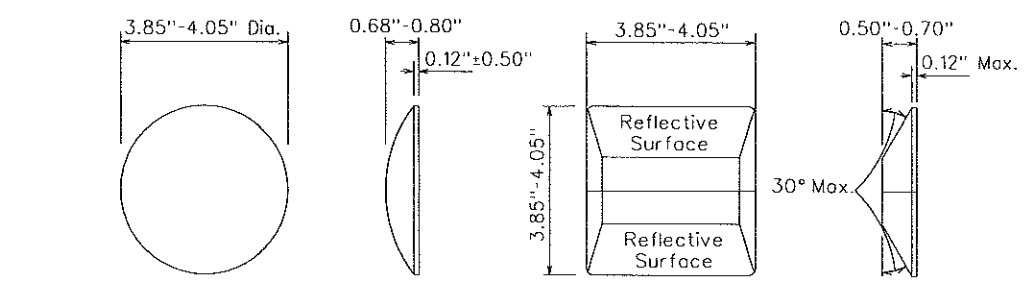
MEDIAN NOSE DELINEATION

TWO - LANE

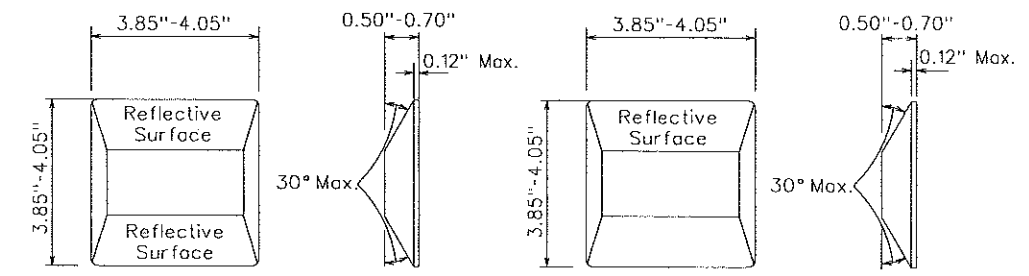
MULTI - LANE

DIVIDED HIGHWAY AND FREEWAY

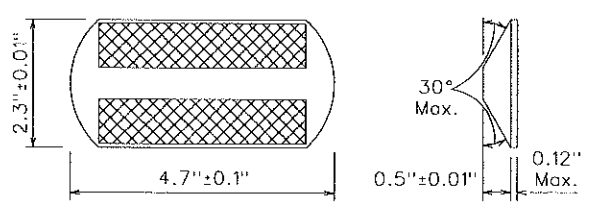
MISCELLANEOUS



TYPE A
NON-REFLECTIVE WHITE MARKER
TYPE J
NON-REFLECTIVE YELLOW MARKER
TYPE C
RED - CLEAR REFLECTIVE MARKER



TYPE D
TWO-WAY YELLOW REFLECTIVE MARKER
TYPE H
ONE-WAY YELLOW REFLECTIVE MARKER

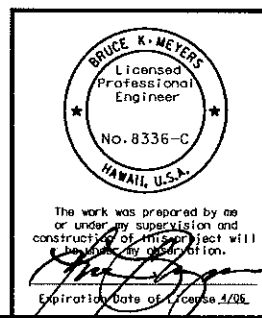


TYPE CL
RED - CLEAR REFLECTIVE MARKER
OR
TYPE DL
TWO-WAY YELLOW REFLECTIVE MARKER
OR
TYPE HL
ONE-WAY YELLOW REFLECTIVE MARKER

- GENERAL NOTES:
1. Pavement marking and striping shall conform to the latest "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
 2. Layout and installation of pavement marking and striping shall be done by the Contractor. The Contractor shall check the layouts with the Contracting Officer prior to performing work.
 3. Edge lines shall not be continued through intersections and shall not be broken for driveways unless otherwise shown or directed.

LEGEND

- Type A
- ▣ Type C or CL
- Type D or DL
- Type H or HL
- Type J



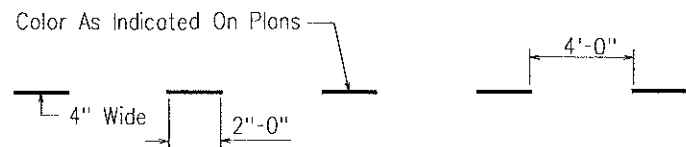
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SPECIAL 634 (HDOT STD TE-30)
RAISED PAVEMENT MARKERS
AND STRIPING

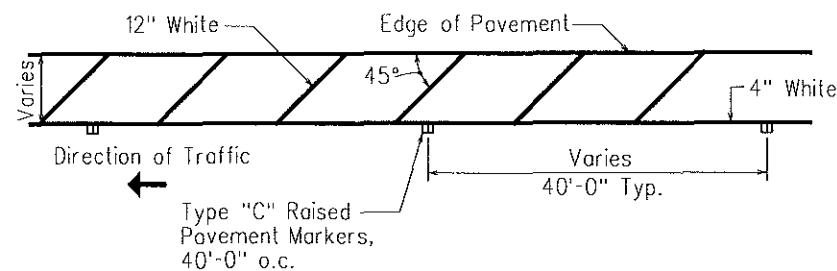
Scale: N.T.S.
Date: December 5, 2005

SHEET No. 1 OF 1

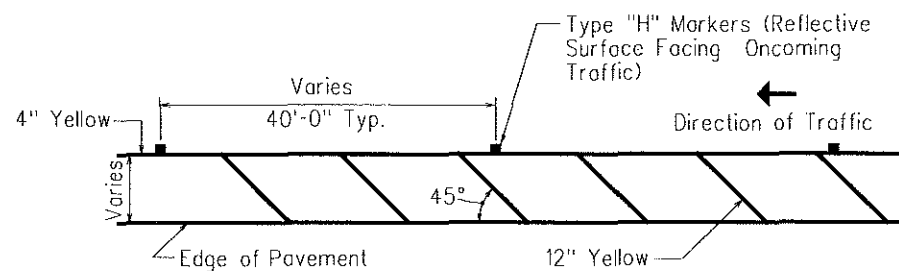
STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200X11	P58	P61



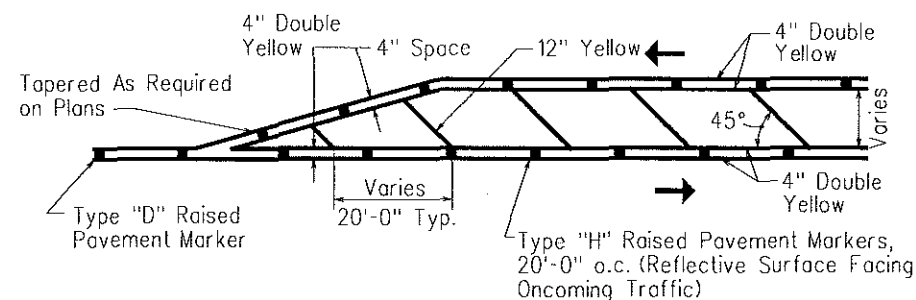
GUIDE LINE



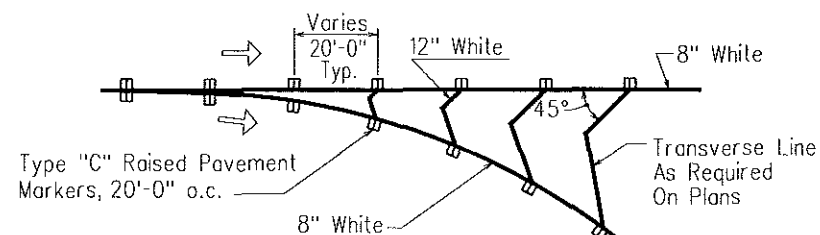
TRANSVERSE RIGHT SHOULDER MARKING



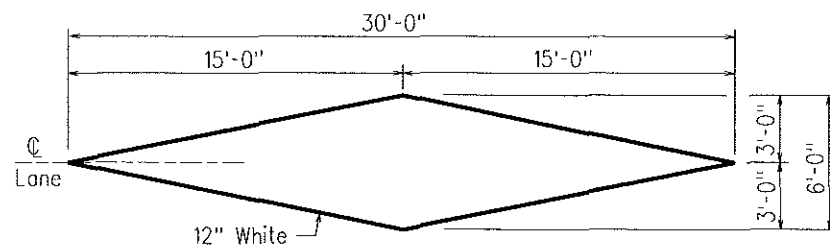
TRANSVERSE LEFT SHOULDER MARKING



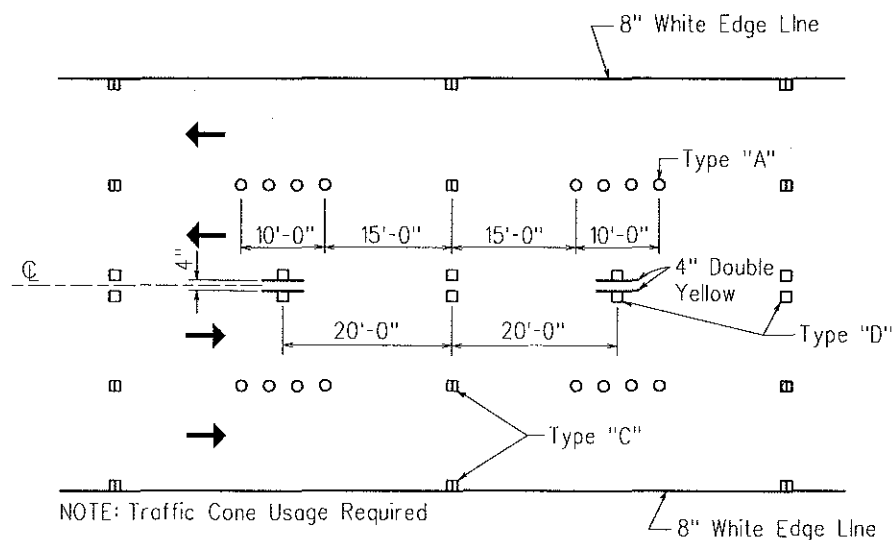
TRANSVERSE MEDIAN MARKING



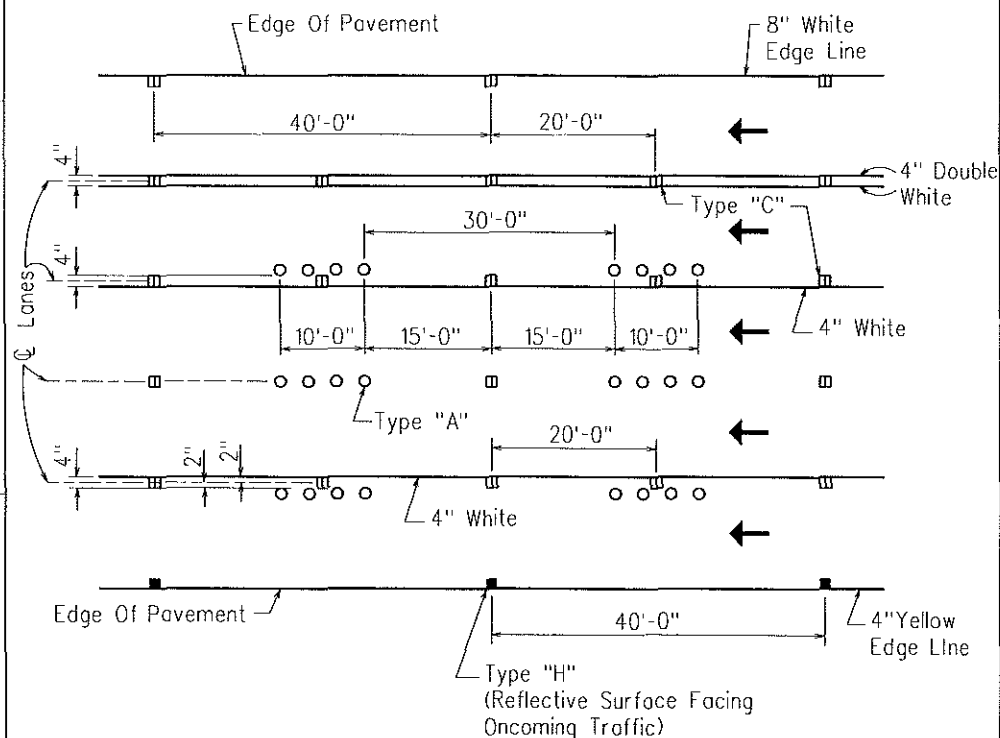
CHANNELIZING ISLAND



PAVEMENT DIAMOND



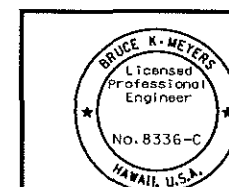
MULTI-LANE REVERSIBLE LANES



MULTI-LANE LANE CHANGE RESTRICTION ZONES

GENERAL NOTES:

1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Contracting Officer prior to performing work.
3. For additional pavement marking details, see Standard Plan TE-30, TE-32, and TE-33.



The work was prepared by me or under my supervision and construction of this project will be in accordance with the expiration date of license 4/26.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SPECIAL 634 (HDOT STD TE-31)
MISC PAVEMENT MARKINGS

Scale: N.T.S.

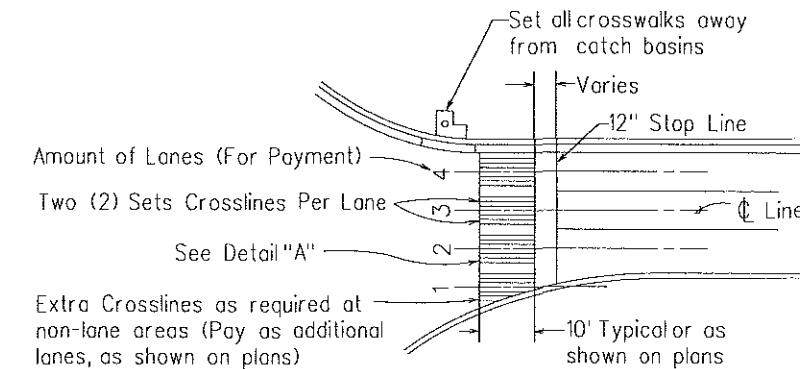
Date: December 5, 2005

SHEET No. 1 OF 1

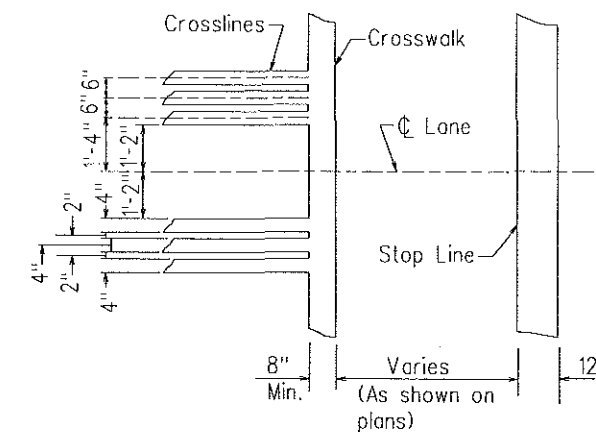
STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) # 200(1)	P59	P61

GENERAL NOTES:

- Pavement Markings and Striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
- Layout of Pavement Markings and Striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Contracting Officer prior to performing work.
- For additional details, see Standard Plan TE-30 & TE-31.

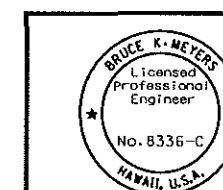


PLAN



DETAIL "A"

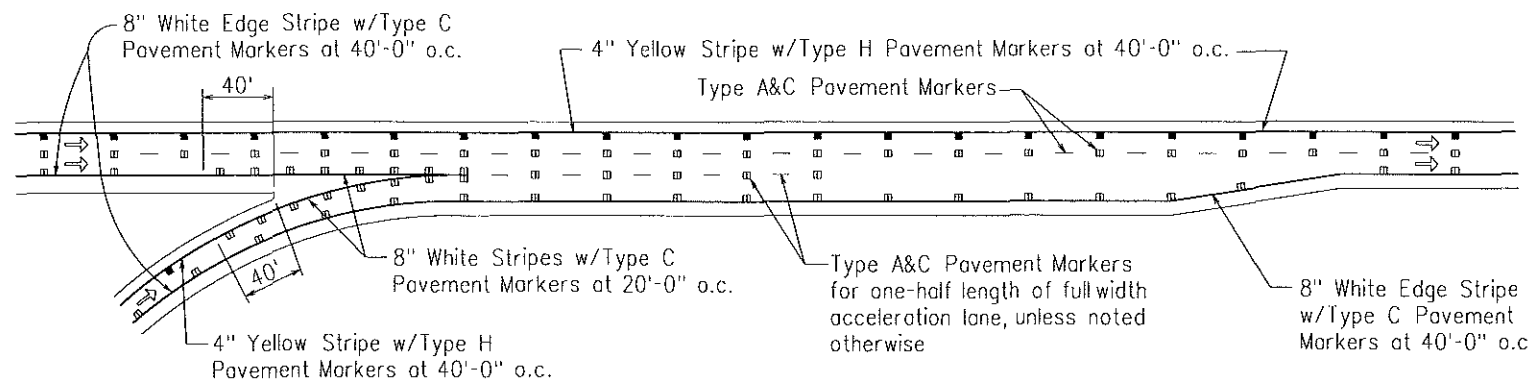
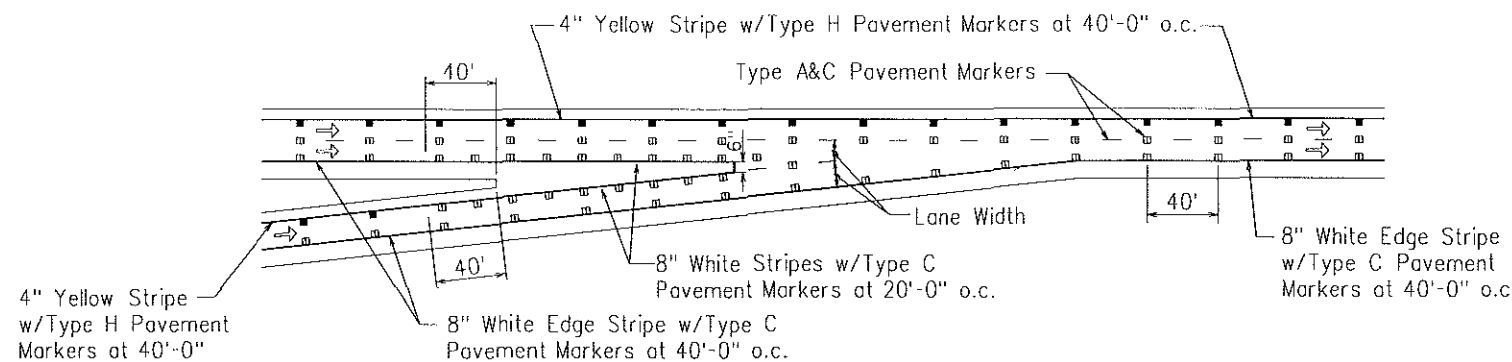
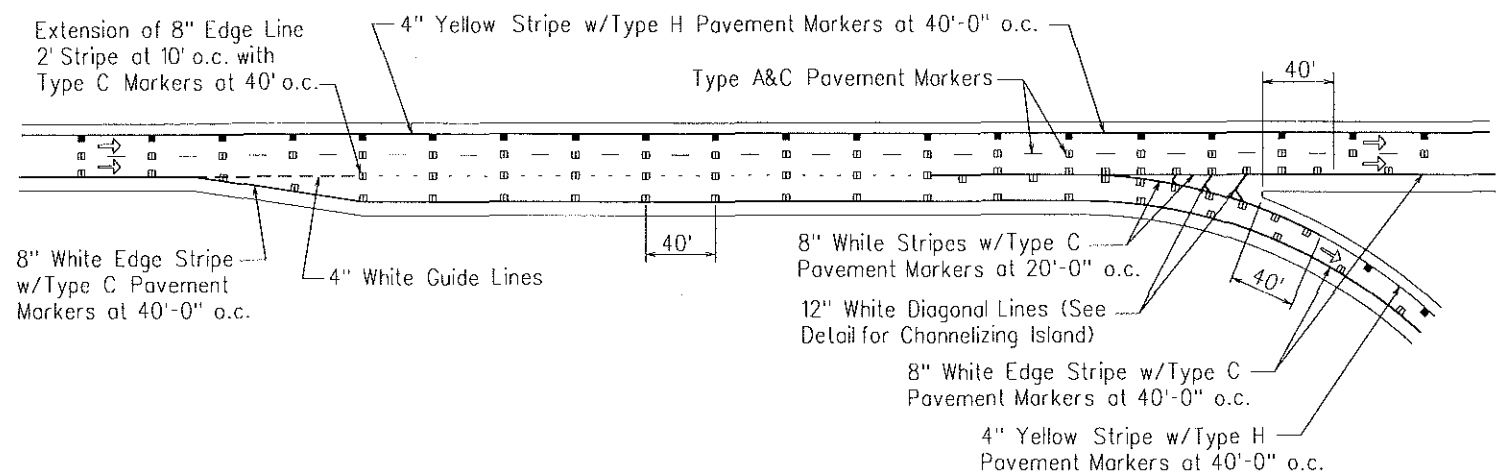
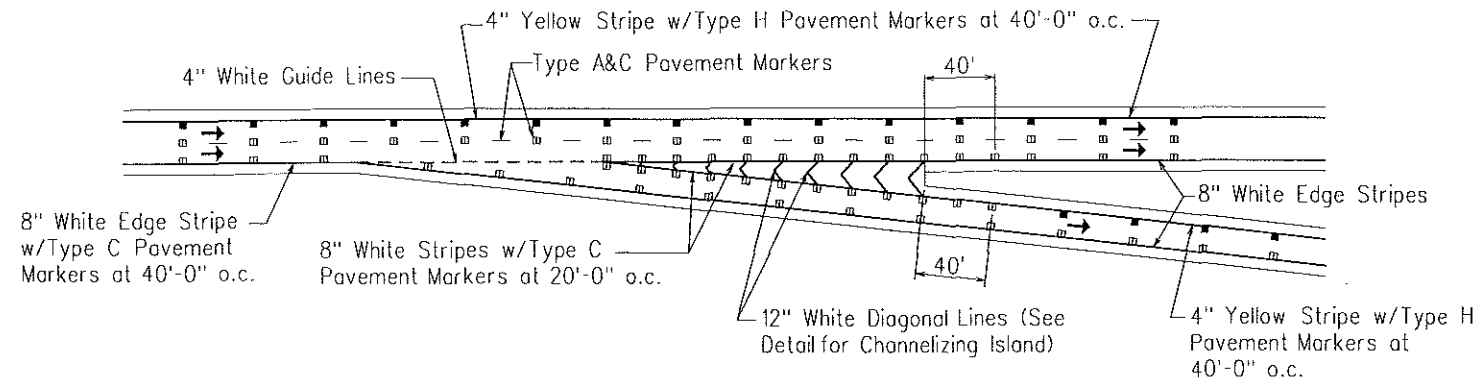
CROSSWALK & STOP LINE



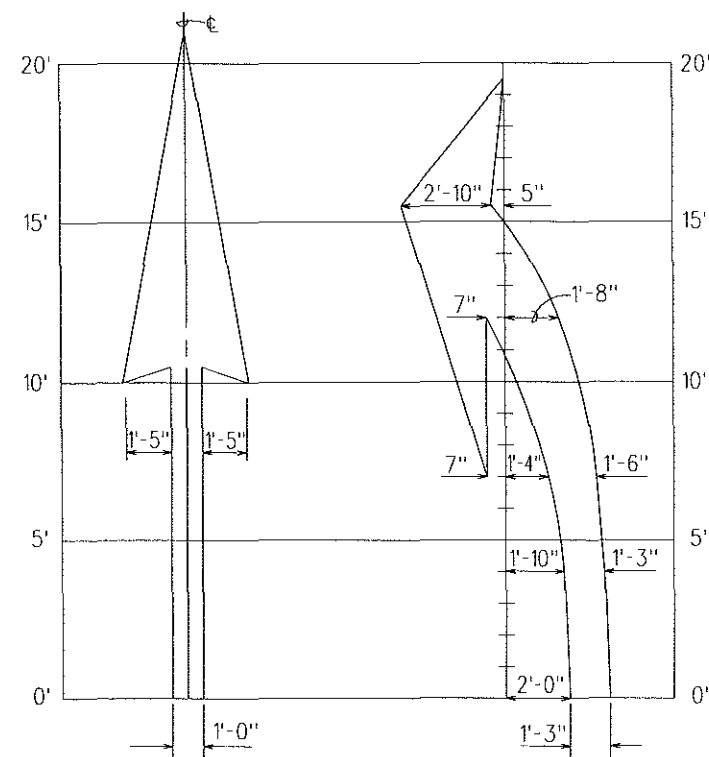
The work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration date of license 4/06

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
SPECIAL 634 (HDOT STD TE-32)	
MISC PAVEMENT MARKINGS	
Scale: N.T.S.	Date: December 5, 2005
SHEET No. 1 OF 1	

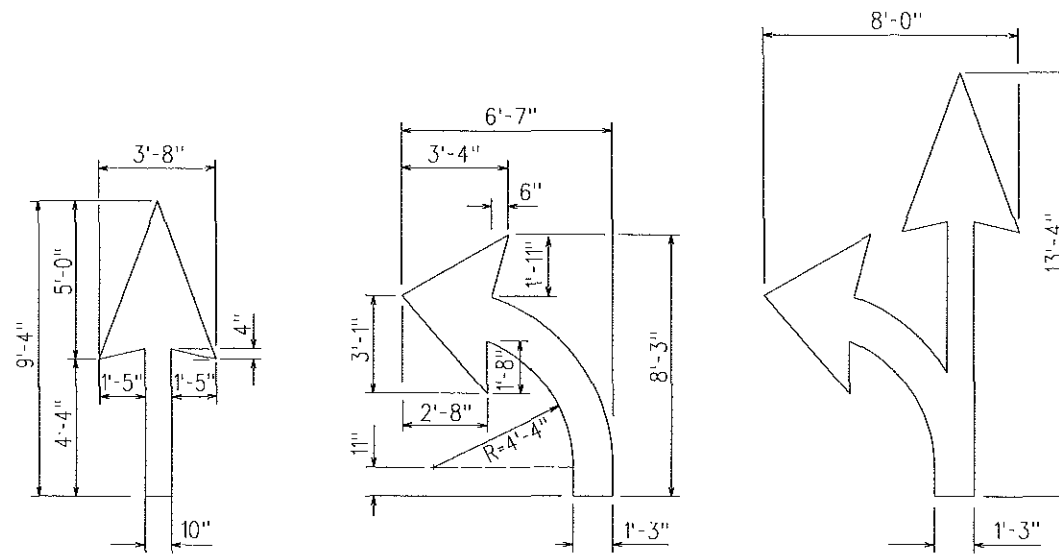
TAPERED DECELERATION LANE PARALLEL DECELERATION LANE TAPERED ACCELERATION LANE PARALLEL ACCELERATION LANE TYPICAL ROADWAY EXIT MARKINGS TYPICAL ROADWAY ENTRANCE MARKINGS



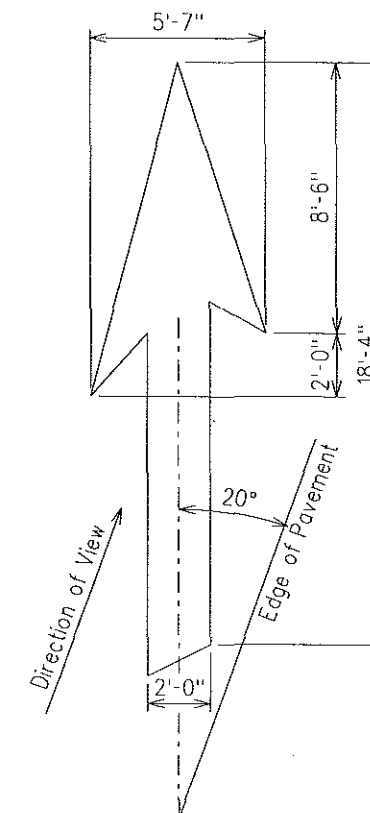
STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200X(1)	P60	P61



ELONGATED



STANDARD



TYPE VI ARROW

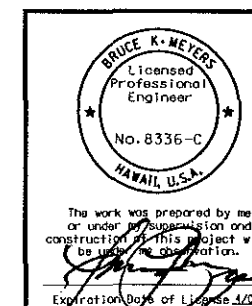
RIGHT LANE DROP ARROW

(FOR LEFT LANE DROP USE MIRROR IMAGE)

GENERAL NOTES:

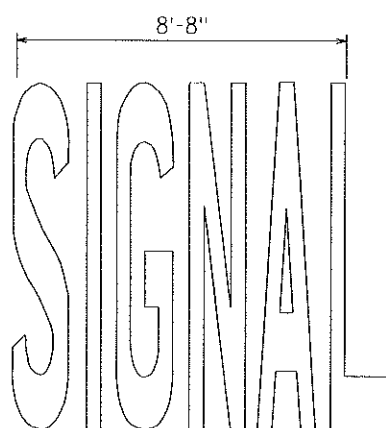
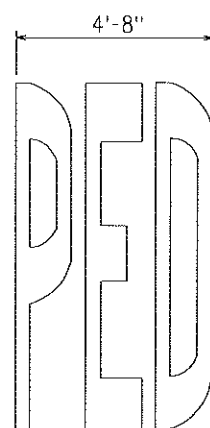
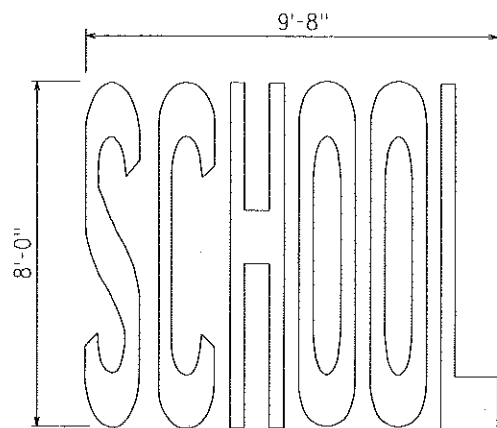
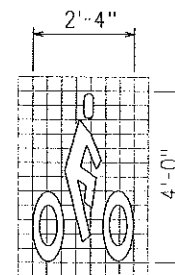
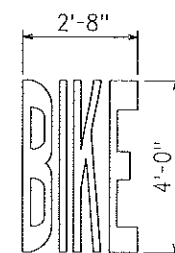
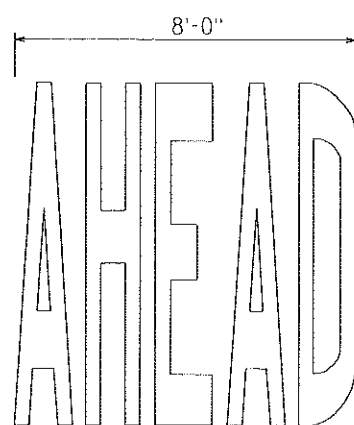
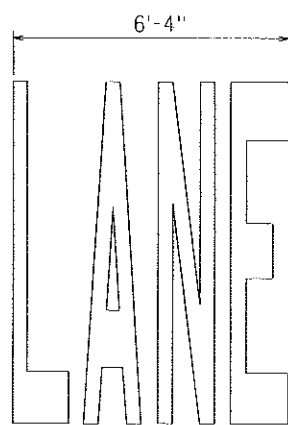
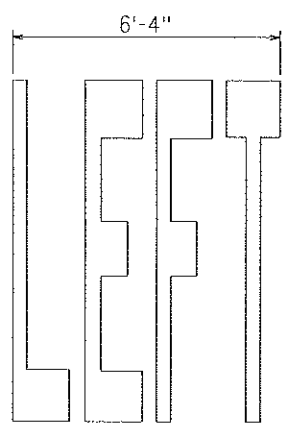
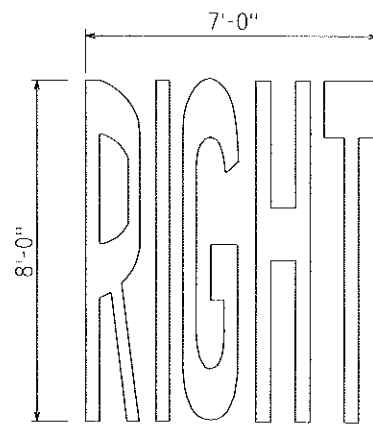
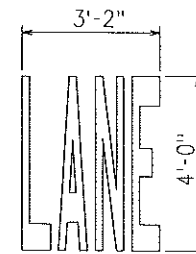
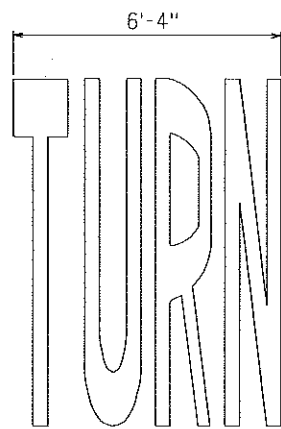
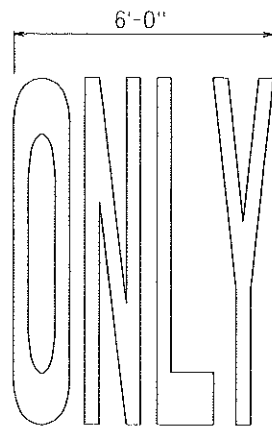
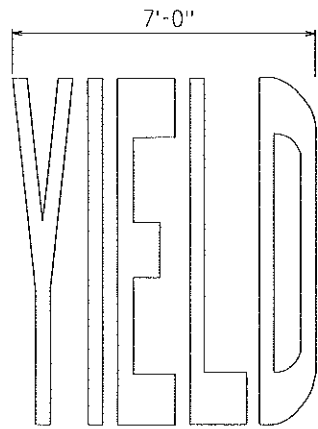
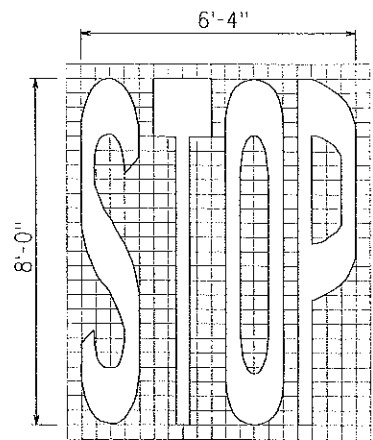
1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Contracting Officer prior to performing work.
3. For additional pavement marking details, see Standard Plan TE-30, TE-31, & TE-32.

11/3/89	Added Alternate Elongated Pavement Arrow layout. Transferred Crosswalk and Stop Line plan and detail to Standard Plan TE-32. Revised General Note No. 3.	APP'D.
DATE	REVISION	



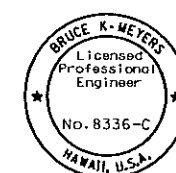
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
SPECIAL 634 (HDOT STD TE-33)	
MISC PAVEMENT MARKINGS	
Scale: N.T.S.	Date: December 5, 2005
SHEET No. 1 OF 1	

STATE	SADDLE ROAD PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD/STP 6(3) & 200(1)	P61	P61



GENERAL NOTES:

1. All messages not shown must be approved by the Contracting Officer prior to installation.
2. The space between characters in a message shall be 1 grid unit unless otherwise shown or directed.
3. All pavement messages shall be white in color.



The work was prepared by me or under my supervision and construction of this project will be under my direction.
Expiration date of license 4/06.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SPECIAL 634 (HDOT STD TE-36)
PAVEMENT ALPHABETS,
NUMBERS & SYMBOLS

Scale: N.T.S.

Date: December 5, 2005

SHEET No. 1 OF 1

P61