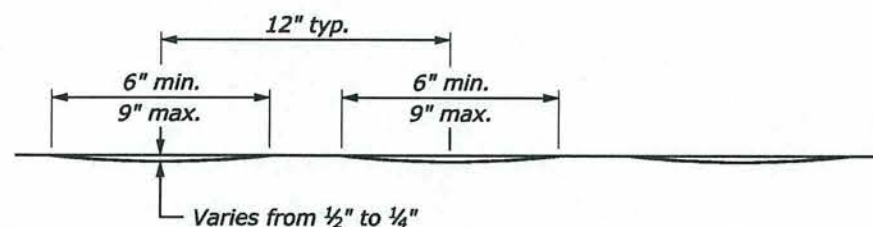


*Emergency Stopping Only
sign (R8-7) placed every 1000'*



AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

Signature Yan Han Date 1/2/14

1. *Submit the Milled Rumble Strip construction method to the Contracting Officer for acceptance prior to the actual work.*
2. *Install Milled Rumble Strips along all shoulders, except at right turn deceleration and acceleration lanes and through major intersections. Do not install Milled Rumble Strips through the Truck Pull-Out area on the left side from Station 687+00 to Station 704+36.*
3. *Do not place Type "C" markers within 2 ft. of the 13 ft. Rumble Strip opening.*
4. *Install Milled Rumble Strips before installation of the edge of pavement striping and the Type "C" markers.*

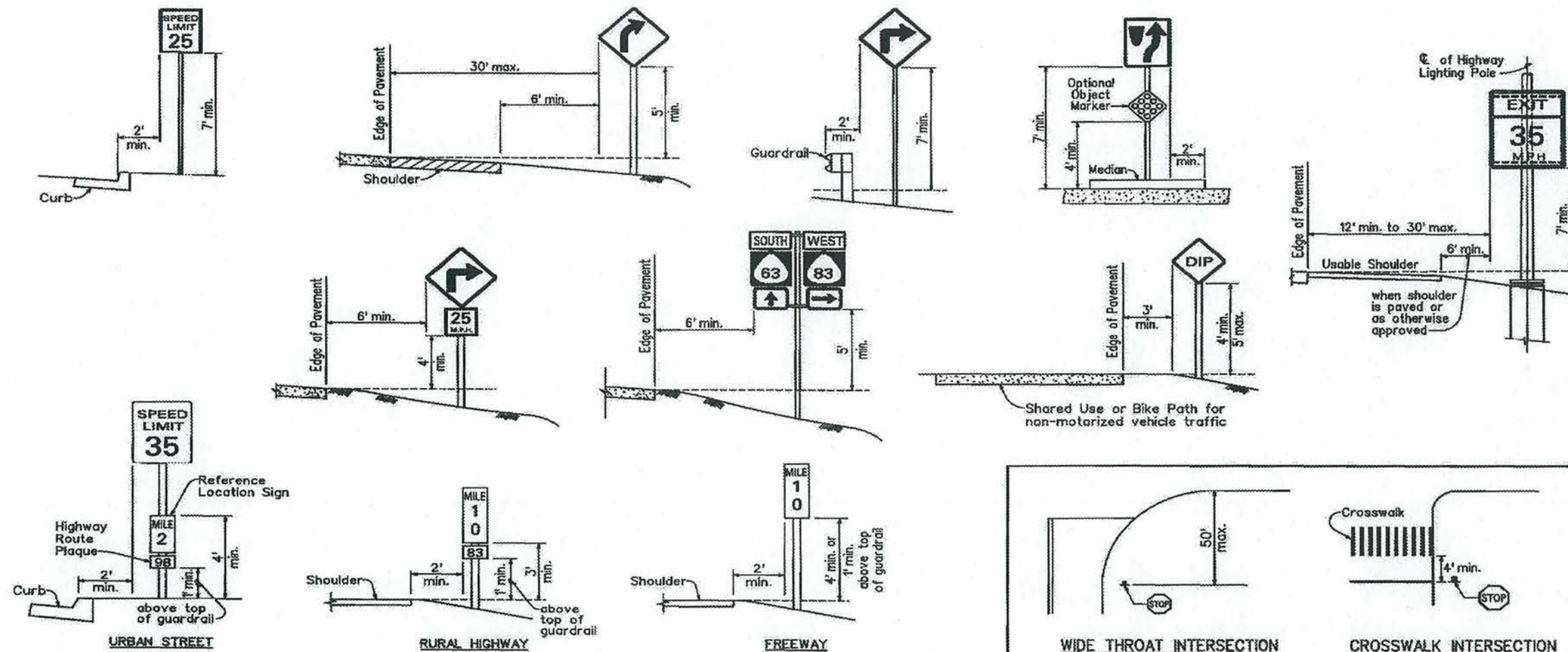


David A. Liddle

Expiration Date of License 4/30/2014

U.S. CUSTOMARY SPECIAL SHOULDER RUMBLE STRIP INSTALLATION, SIGNING & STRIPING DETAILS

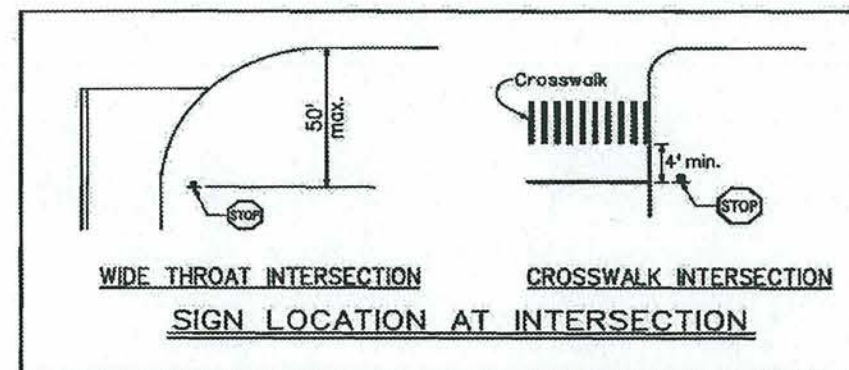
SPECIAL
633-A



HEIGHT AND LATERAL LOCATION OF SIGN

GENERAL NOTES

- Sign shall be installed in conformance with the latest edition of Federal Highway Administration Manual on Uniform Traffic Control Devices (MUTCD), as amended or supplemented by the contract documents.
- The minimum lateral and vertical clearances are guidelines and shall be exceeded whenever practical. Sign shall be installed as consistent as possible with other existing and new signs to create an overall coordinated appearance that best command road users' attention and respect.
- Unless otherwise shown, sign shall be vertically mounted at right angles to the direction of, and facing, the traffic that they are intended to serve. On curved alignment, the angle of placement should be determined by the direction of approaching traffic rather than by the roadway edge at the point where the sign is located.
- Sign with arrow denoting extent of restrictive zone, such as parking, shall be mounted 45 degrees to the line of traffic flow.
- Reference location sign may be moved in either direction as much as 50 feet when approved by the Engineer.



DATE	REVISION	APP'D.
00/00/00 X		

STANDARD PLAN TE-01 07/11/08

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

Signature 1/2/14
Date



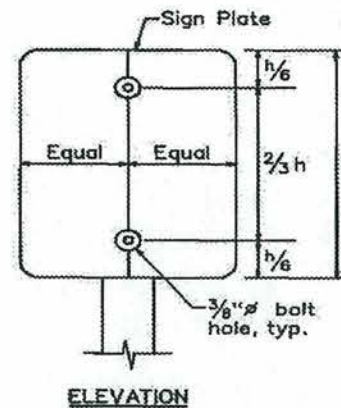
This work was prepared by me or under my supervision
Daniel A. Liddle
Expiration Date of License 4/30/2014

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

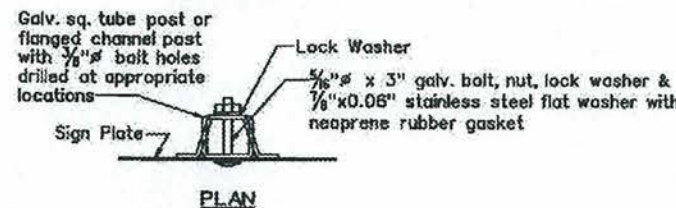
U.S. CUSTOMARY SPECIAL
(HDOT STD TE-01)
MISCELLANEOUS
SIGN DETAILS

SPECIAL
633-B

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T57	T101



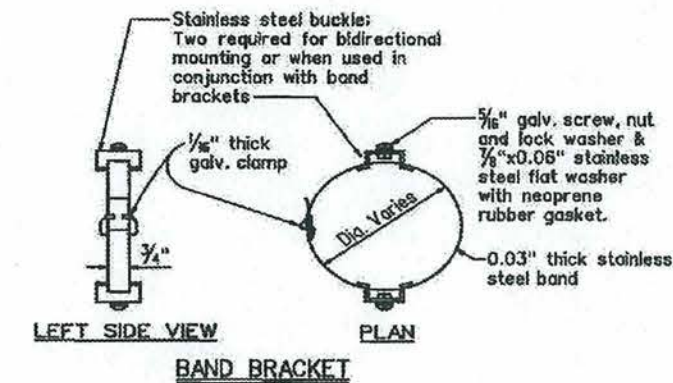
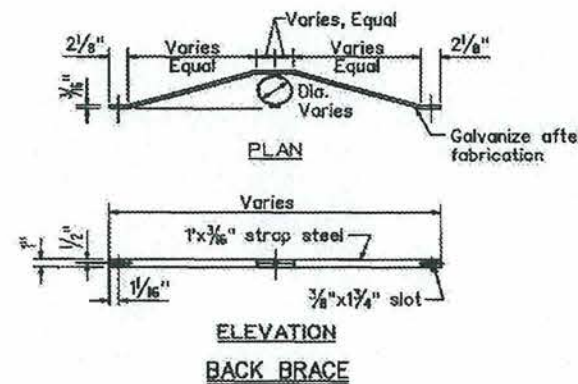
h = height of sign panel:
If $2/3 h > 2'$, install one
set of sign panel fastening
hardware for every 18"
increment of $2/3 h$ in
equal spacing.



POST MOUNTING INSTALLATION

GENERAL NOTES

- Sign message, color, size, shape and reference shall be in conformance with the latest edition of Federal Highway Administration Standard Highway Signs (SHS), as amended or supplemented by the contract documents.
- Sign post shall not exceed top of sign except where street name sign is attached above it. Where street name sign is required, sign post shall extend $3/2'$ above top of sign to accommodate street name sign post cap.
- Unless otherwise shown, signs of unequal shape and size shall not be mounted back to back.
- Signs sharing same post(s) shall not be overlapped. Each sign shall have on its own a minimum of two sets of fastening hardware per post. Maintain 1" clearance between signs.
- Sign with lateral overhang more than 2' shall be installed with back brace or other support assembly approved by the Engineer.
- Sign may be mounted on highway lighting or traffic signal poles as follows:
 - Sign less than 10 square feet in area shall be installed with two sets of band brackets.
 - Sign between 10 and 28 square feet shall be installed with two sets of band brackets and back braces.
 - Sign larger than 28 square feet shall be reviewed and approved in writing by the Engineer prior to installation.
- Anchor base shall be required for all sign post installations in accordance with the related Standard Plans sign mounting details.
- Sign shall be installed with the required number of post(s), material and frame stiffeners in accordance with the related Standard Plans sign mounting details.



POLE MOUNTING INSTALLATION

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

Signature *1/2/14*
Date



This work was prepared by me
or under my supervision
Daniel A. Liddle
Expiration Date of License 4/30/2014

DATE	REVISION	APP'D.
00/00/00	X	

STANDARD PLAN TE-01A 07/11/08

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

U.S. CUSTOMARY SPECIAL
(HDOT STD TE-01A)
MISCELLANEOUS
SIGN DETAILS

SPECIAL
633-C

GENERAL NOTES

1. Design Specifications:

- Design shall conform w/ the latest AASHTO Standard Specifications for the Structural Supports for Highway Signs, Luminaires & Traffic Signals and its interim supplements and modifications by the Highways Division, Department of Transportation State of Hawaii.
- Latest HDOT Memorandum with subject title "Design Criteria for Bridges and Structures."

2. Loads:

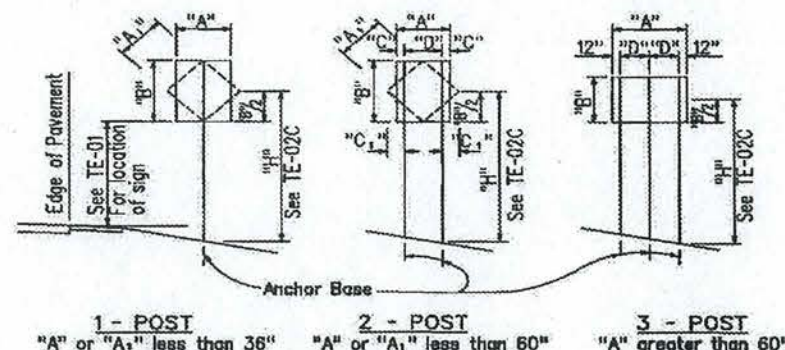
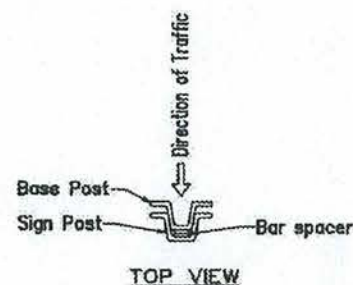
- Basic Wind Speed: 105 mph.
- Recurrence Interval of 10 years.

3. Materials:

- Post shall conform to the Standard Specifications.
- Post shall be zinc coated after fabrication in accordance with ASTM A-123.
- All connection bolts shall be AASHTO M164 bolts and anchor bolts shall be AASHTO M314-105 bolt.
- Lap splice nuts and bolts shall be M180, with an ultimate tensile strength of 180 ksi, min.
- Aluminum members and surfaces in contact with structural steel shall be isolated with neoprene material as approved by the Engineer.

4. General:

- See B-01, TE-01, TE-02B and TE-02C for additional information.
- All accessories, fittings, connection details, and stiffener details (as required) shall be designed for the loads specified in the General Notes and submitted to the Engineer for approval 20 days prior to installation.
- Alternate designs in accordance with the plans and specifications shall use the Service Load Design Method and shall be stamped by a registered engineer of the State of Hawaii in the related discipline and submitted to the Engineer for approval.
- All sign support posts shall be outside of the clear zone or shielded by an appropriate traffic barrier system. The traffic barrier system shall be submitted to the Engineer for his approval.
- The Contractor shall use templates while installing the anchor bolts. Anchor bolts shall be vertical.
- Excavation and backfill costs shall be considered incidental to the cost of the sign foundation.
- Sign post shall be punched their full length with $\frac{3}{8}$ " holes on 1" centers.
- Base post shall be punched with a minimum of thirty-six $\frac{3}{8}$ " dia. holes on 1" centers with the first hole 1" from the top.
- Base post shall be driven to a minimum embedment as shown on sheet TE-02C. The base post may protrude a maximum of 4" above the surrounding ground surface.
- Base post damaged or deformed in the splice contact area shall be repaired or replaced at no additional cost to the State. Drive cap shall be used as required.



"A" or "A1"	"C"	"C1"
Less than 36"	6"	-
Greater than 36" and less than 48"	9"	19"
Greater than 48"	12"	24"

NOTE: Frame stiffeners are required when "D" is greater than 24". See General Notes.

AS-BUILT DRAWINGS/SPECIFICATIONS

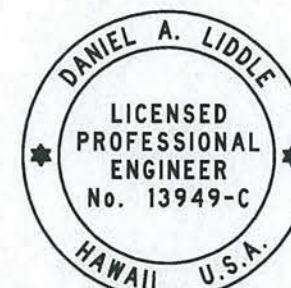
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.

Contractor's Name:

Signature

Date



This work was prepared by me or under my supervision

Daniel A. Liddle

Expiration Date of License 4/30/2014

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

U.S. CUSTOMARY SPECIAL
(HDOT STD TE-02A)
**GALVANIZED FLANGED CHANNEL
SIGN POST MOUNTING**

SPECIAL
633-D

00/00/00	X	
DATE	REVISION	APP'D.

STANDARD PLAN TE-02A 05/31/07



STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T59	T101

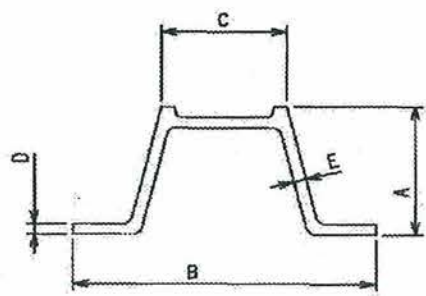
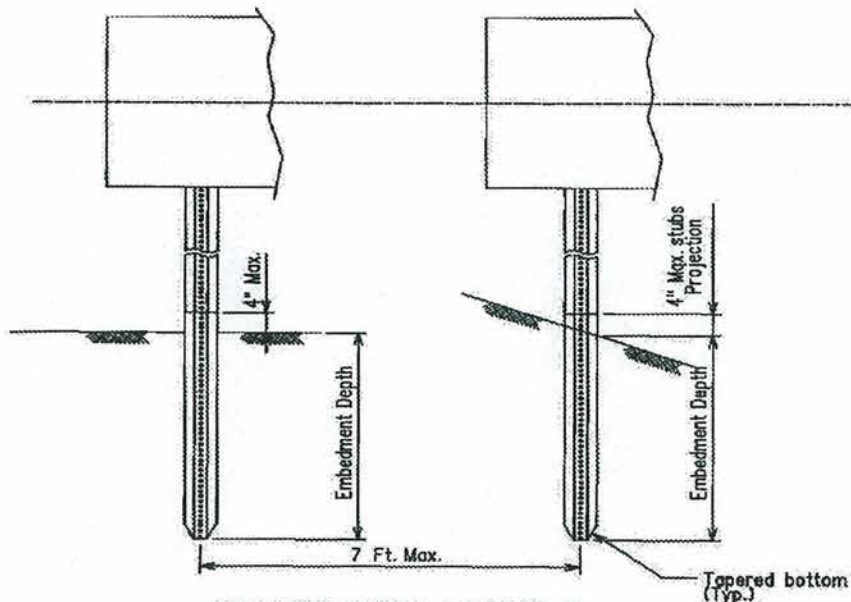


TABLE 1: MINIMUM FLANGED CHANNEL POST PROPERTIES & DIMENSIONS								
Post Size	Area (in ²)	I (in ⁴)	S (in ³)	A (in.)	B (in.)	C (in.)	D (in.)	E (in.)
2.50 lbs./ft.	0.70	0.21	0.25	1.516	3.082	1.278	0.176	0.117
4.00 lbs./ft.	1.11	0.54	0.47	1.968	3.500	1.338	0.272	0.143

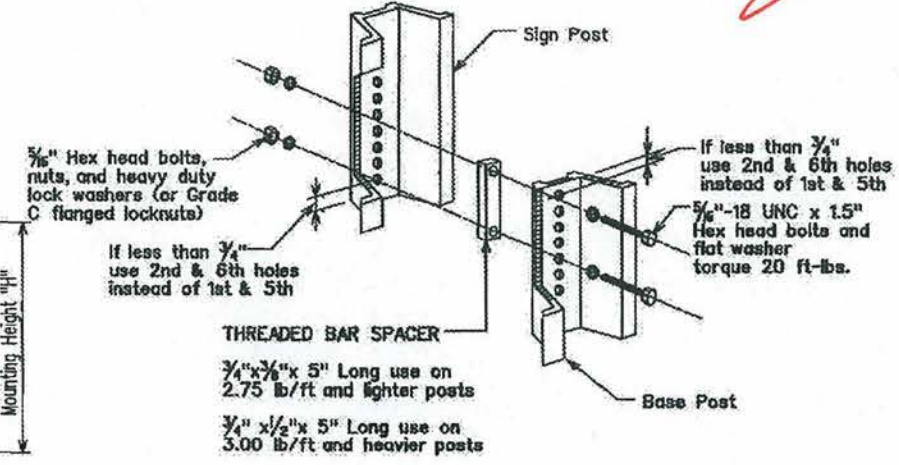
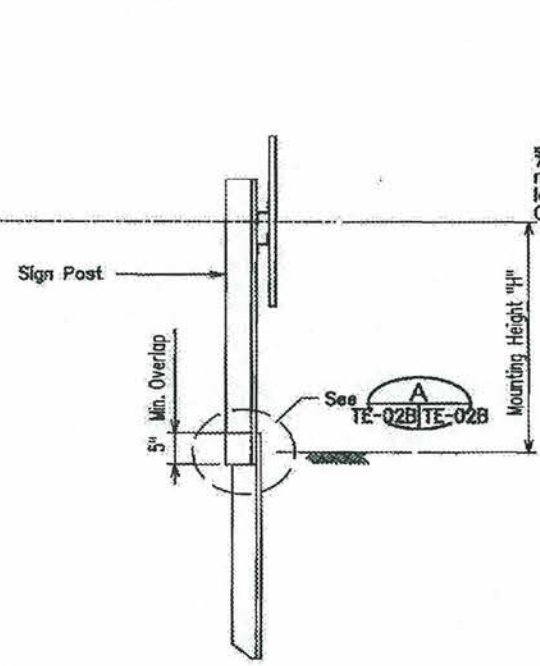
Note
The contractor shall submit shop drawings and catalog cuts to the Engineer for approval.

AS-BUILT DRAWINGS/SPECIFICATION
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:
[Signature] 1/2/14
Signature Date



EMBEDMENT DETAILS
NOTE:
Three posts allowed within 7 feet swath.



SECTION A
TE-02B/TE-02B

DATE	REVISION	APP'D.
00/00/00 X		

STANDARD PLAN TE-02B 05/31/07

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD PLAN TE-02B
GALVANIZED FLANGED CHANNEL
SIGN POST MOUNTING



This work was prepared by me or under my supervision
Daniel A. Liddle
Expiration Date of License 4/30/2014

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION
U.S. CUSTOMARY SPECIAL
(HDOT STD TE-02B)
**GALVANIZED FLANGED CHANNEL
SIGN POST MOUNTING**
SPECIAL
633-E

FLANGED CHANNEL: 1-POST INSTALLATION - STIFF CLAY												
Post Size W	"H" - Ground Level to Midpoint (ft.)											
	7		8		9		10		11		12	
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)
2.50 lbs./ft.	6	3.17	5	3.17	4	3.17	4	3.17	3	3.17	2	3.17
4.00 lbs./ft.	-	-	-	-	-	-	7	4	7	4	6	4

FLANGED CHANNEL: 1-POST INSTALLATION - SAND AND GRAVEL												
Post Size W	"H" - Ground Level to Midpoint (ft.)											
	7		8		9		10		11		12	
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)
2.50 lbs./ft.	6	5.5	5	6	4	5.5	4	5.5	3	5	2	4.5
4.00 lbs./ft.	-	-	-	-	-	-	7	7	7	7	6	7

FLANGED CHANNEL: 2-POST INSTALLATION - STIFF CLAY												
Post Size W	"H" - Ground Level to Midpoint (ft.)											
	7		8		9		10		11		12	
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)
2.50 lbs./ft.	11	3.17	10	3.17	9	3.17	8	3.17	7	3.17	6	3.17
4.00 lbs./ft.	25	3.17	22	3.17	20	3.17	18	3.17	16	3.17	14	3.17

FLANGED CHANNEL: 2-POST INSTALLATION - SAND AND GRAVEL												
Post Size W	"H" - Ground Level to Midpoint (ft.)											
	7		8		9		10		11		12	
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)
2.50 lbs./ft.	11	3.17	10	3.17	9	3.17	8	3.17	7	3.17	6	3.17
4.00 lbs./ft.	25	4	22	4	20	4	18	4	16	4	14	4

POST EMBEDMENT DEPTH TABLES

FLANGED CHANNEL: 3-POST INSTALLATION - STIFF CLAY												
Post Size W	"H" - Ground Level to Midpoint (ft.)											
	7		8		9		10		11		12	
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)
2.50 lbs./ft.	19	3.17	16	3.17	14	3.17	12	3.17	10	3.17	8	3.17
4.00 lbs./ft.	37	3.17	32	3.17	28	3.17	24	3.17	22	3.17	20	3.17

FLANGED CHANNEL: 3-POST INSTALLATION - SAND AND GRAVEL												
Post Size W	"H" - Ground Level to Midpoint (ft.)											
	7		8		9		10		11		12	
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)
2.50 lbs./ft.	19	3.17	16	3.17	14	3.17	12	3.17	10	3.17	8	3.17
4.00 lbs./ft.	37	3.17	32	3.17	28	3.17	24	3.17	22	3.17	20	3.17

Notes:

- "H" dimension given in tables is the maximum Height "H" for the corresponding sign area.
- Sign Area in tables is the maximum sign area for the corresponding "H".

AS-BUILT DRAWINGS/SPECIFICATIONS

This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODEFELLOW BROS., INC.
Contractor's Name:

John Han 1/2/14
Signature Date



This work was prepared by me or under my supervision

Daniel A. Liddle
Expiration Date of License 4/30/2014

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

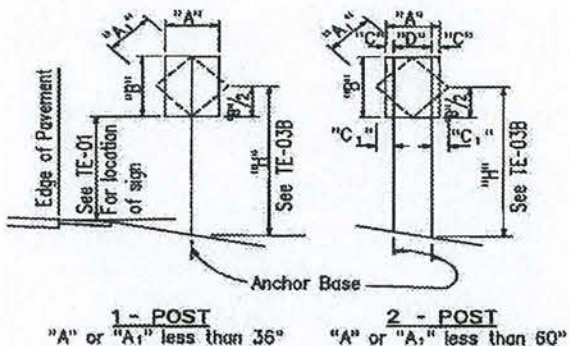
U.S. CUSTOMARY SPECIAL
(HDOT STD TE-02C)
GALVANIZED FLANGED CHANNEL
SIGN POST MOUNTING

SPECIAL
633-F



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DATE	REVISION	APP'D.

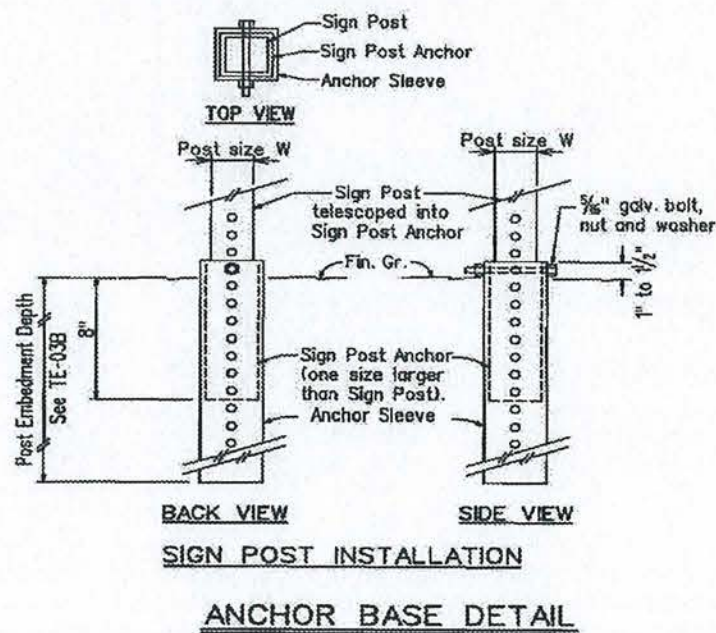
STANDARD PLAN TE-02C 05/31/07



"A" or "A ₁ "	"C"	"C ₁ "
Less than 36"	6"	-
Greater than 36" and less than 48"	9"	19"
Greater than 48"	12"	24"

NOTE: Frame stiffeners are required when D is greater than 24". See General Notes.

TYPICAL INSTALLATION



GENERAL NOTES

- Design Specifications:**
 - Design shall conform w/ the latest AASHTO Standard Specifications for the Structural Supports for Highway Signs, Luminaires & Traffic Signals and its interim supplements and modifications by the Highways Division, Department of Transportation State of Hawaii.
 - Latest HDOT Memorandum with subject title "Design Criteria for Bridges and Structures."
- Loads:**
 - Basic Wind Speed: 105 mph.
 - Recurrence Interval of 10 years.
- Materials:**
 - Post shall conform to the Standard Specifications.
 - Post shall be zinc coated after fabrication in accordance with ASTM A-123.
 - All connection bolts shall be AASHTO M164 bolts and anchor bolts shall be AASHTO M314-105 bolt.
 - Lap splice nuts and bolts shall be M180, with an ultimate tensile strength of 180 ksi, min.
 - Aluminum members and surfaces in contact with structural steel shall be isolated with neoprene material as approved by the Engineer.

- General:**
 - See B-01, TE-01, and TE-03B for additional information.
 - All posts shall be 12 gage unless otherwise specified or shown on the plans.
 - Square tube posts shall be perforated with $\frac{1}{8}$ " holes, 1" o.c., 4 sides, along entire length of post.
 - All accessories, fittings, connection details, and stiffener details (as required) shall be designed for the loads specified in the General Notes and submitted to the Engineer for approval 20 days prior to installation.
 - Alternate designs in accordance with the plans and specifications shall use the Service Load Design Method and shall be stamped by a registered engineer of the State of Hawaii in the related discipline and submitted to the Engineer for approval.
 - All sign support posts shall be outside of the clear zone or shielded by an appropriate traffic barrier system. The traffic barrier system shall be submitted to the Engineer for his approval.
 - The Contractor shall use templates while installing the anchor bolts. Anchor bolts shall be vertical.
 - Excavation and backfill costs shall be considered incidental to the cost of the sign foundation.

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

[Signature] *1/2/14*
Signature Date



This work was prepared by me or under my supervision

Daniel A. Liddle
Expiration Date of License 4/30/2014

00/00/00	X	
DATE	REVISION	APP'D.

STANDARD PLAN TE-03A 05/31/07



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

U.S. CUSTOMARY SPECIAL
(HDOT STD TE-03A)
**GALVANIZED SQUARE TUBE
SIGN POST MOUNTING**

SPECIAL
633-G

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T62	T101

SQUARE TUBE: 1-POST INSTALLATION - STIFF CLAY											
Post Size W	"H" = Ground Level to Midpoint (ft.)										
	7		8		9		10		11		12
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)
2"	7.7	4.5	6.7	4	6.0	4	5.4	4	4.9	4	4.5
2 1/2"	-	-	-	-	-	-	-	-	9.6	4	8.8

SQUARE TUBE: 2-POST INSTALLATION - STIFF CLAY											
Post Size W	"H" = Ground Level to Midpoint (ft.)										
	7		8		9		10		11		12
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)
2"	17.4	3	15.2	3	13.5	3	12.2	3	11.0	3	10.1
2 1/2"	30.2	3	26.5	3	23.5	3	21.1	3	19.2	3	17.6

SQUARE TUBE: 1-POST INSTALLATION - SAND AND GRAVEL											
Post Size W	"H" = Ground Level to Midpoint (ft.)										
	7		8		9		10		11		12
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)
2"	7.7	4.5	6.7	4.5	6.0	4	5.4	4	4.9	4	4.5
2 1/2"	-	-	-	-	-	-	-	-	9.6	5	8.8

SQUARE TUBE: 2-POST INSTALLATION - SAND AND GRAVEL											
Post Size W	"H" = Ground Level to Midpoint (ft.)										
	7		8		9		10		11		12
	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)	Embed. Depth (Ft.)	Sign Area (Sq.Ft.)
2"	17.4	3	15.2	3	13.5	3	12.2	3	11.0	3	10.1
2 1/2"	30.2	4	26.5	4	23.5	4	21.1	4	19.2	4	17.6

POST EMBEDMENT DEPTH TABLES

- Notes:
- "H" dimension given in tables is the maximum Height "H" for the corresponding sign area.
 - Sign Area in tables is the maximum sign area for the corresponding "H".

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:
[Signature] 1/2/14
Signature Date

00/00/00	X	
DATE	REVISION	APP'D.



STANDARD PLAN TE-03B 05/31/07



This work was prepared by me or under my supervision
Daniel A. Liddle
Expiration Date of License 4/30/2014

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION
U.S. CUSTOMARY SPECIAL (HDOT STD TE-03B) GALVANIZED SQUARE TUBE SIGN POST MOUNTING
SPECIAL 633-H

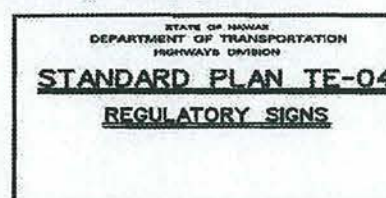
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T63	T101

 R1-1 30"x30" R1-1-A 36"x36"	 R1-2 36"x36"x36" R1-2-A 48"x48"x48"	 R2-1(50) 24"x30" R2-1(50)-A 48"x60" R2-1(50)-B 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 48"x48" R3-1-B 48"x36"	 R3-2 24"x24" R3-2-A 48"x48" R3-2-B 48"x36"	 R3-3 24"x24" R3-3-A 48"x48"	 R3-4 24"x24" R3-4-A 48"x48" R3-4-B 48"x36"	 R3-5(L) 30"x36" R3-5(L)-A 48"x60"	 R3-6(L) 30"x36" R3-6(L)-A 48"x60"	 R3-7(R) 30"x30" R3-7(R)-A 48"x48"
 R1-3 12"x6" R1-3-A 18"x9"	 R1-4 18"x6" R1-4-A 24"x9"										
 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 48"x60"	 R4-8 24"x30" 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"x24" R5-4-A 48"x60"	 R5-6 24"x24" R5-6-A 24"x18"	 R6-1(R) 36"x12"	 R6-2(R) 24"x30"	 R7-1 12"x18" R7-1-A 24"x30"	 R7-4 12"x18" R7-4-A 24"x30"	 R7-107(R) 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"x60"	 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"					
 R10-17a 30"x36"	 R11-1 24"x30"	 R11-2 48"x30"	 R11-3(10) 60"x30"	 R11-4 60"x30"	 R12-K10 24"x30"						

GENERAL NOTES

1. 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.
2. All regulatory signs shall be reflectorized unless otherwise specified.
3. All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
4. Numerals in () indicate numerals to be inserted for sign message. (R) or (L) indicates right or left.
5. All signs shall be erected without educational plaques unless called for in the plans.

00/00/00 X		
DATE	REVISION	APP'D.

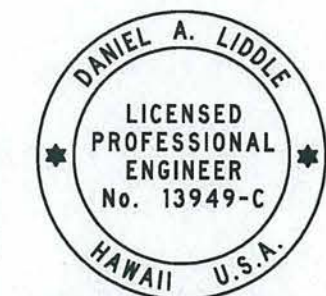


STANDARD PLAN TE-04 07/11/08

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

Signature 1/2/14



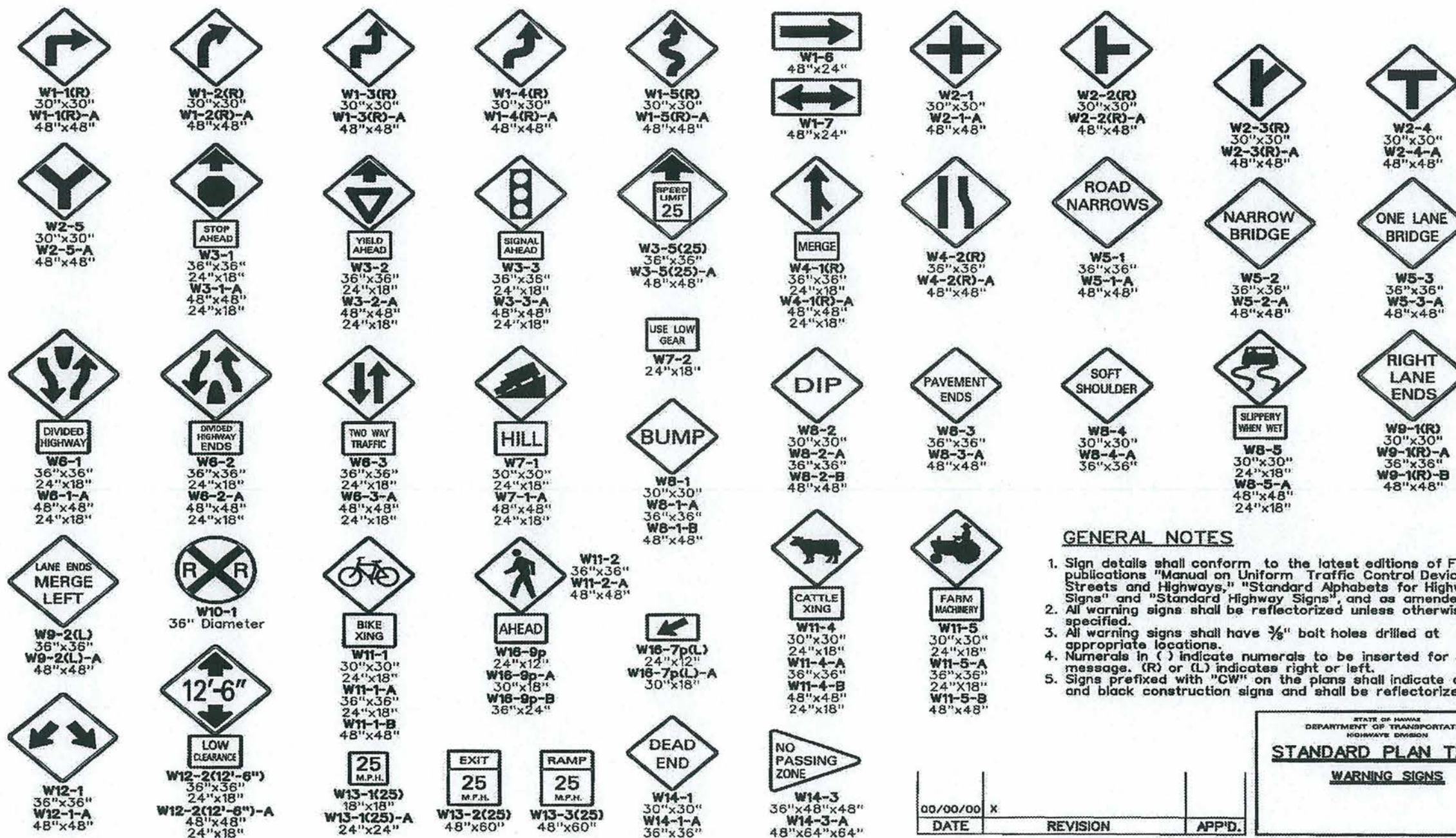
This work was prepared by me or under my supervision
Daniel A. Liddle
Expiration Date of License 4/30/2014

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

U.S. CUSTOMARY SPECIAL
(HDOT STD TE-04)
REGULATORY SIGNS

SPECIAL
633-I

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T64	T101



GENERAL NOTES

1. 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.
2. All warning signs shall be reflectorized unless otherwise specified.
3. All warning signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
4. Numerals in () indicate numerals to be inserted for sign message. (R) or (L) indicates right or left.
5. Signs prefixed with "CW" on the plans shall indicate orange and black construction signs and shall be reflectorized.

DATE	REVISION	APP'D.
00/00/00	X	



STANDARD PLAN TE-05 07/11/08

AS-BUILT DRAWINGS/SPECIFICATIONS
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GOODFELLOW BROS., INC.
Contractor's Name:

[Signature] 1/2/14
Signature Date



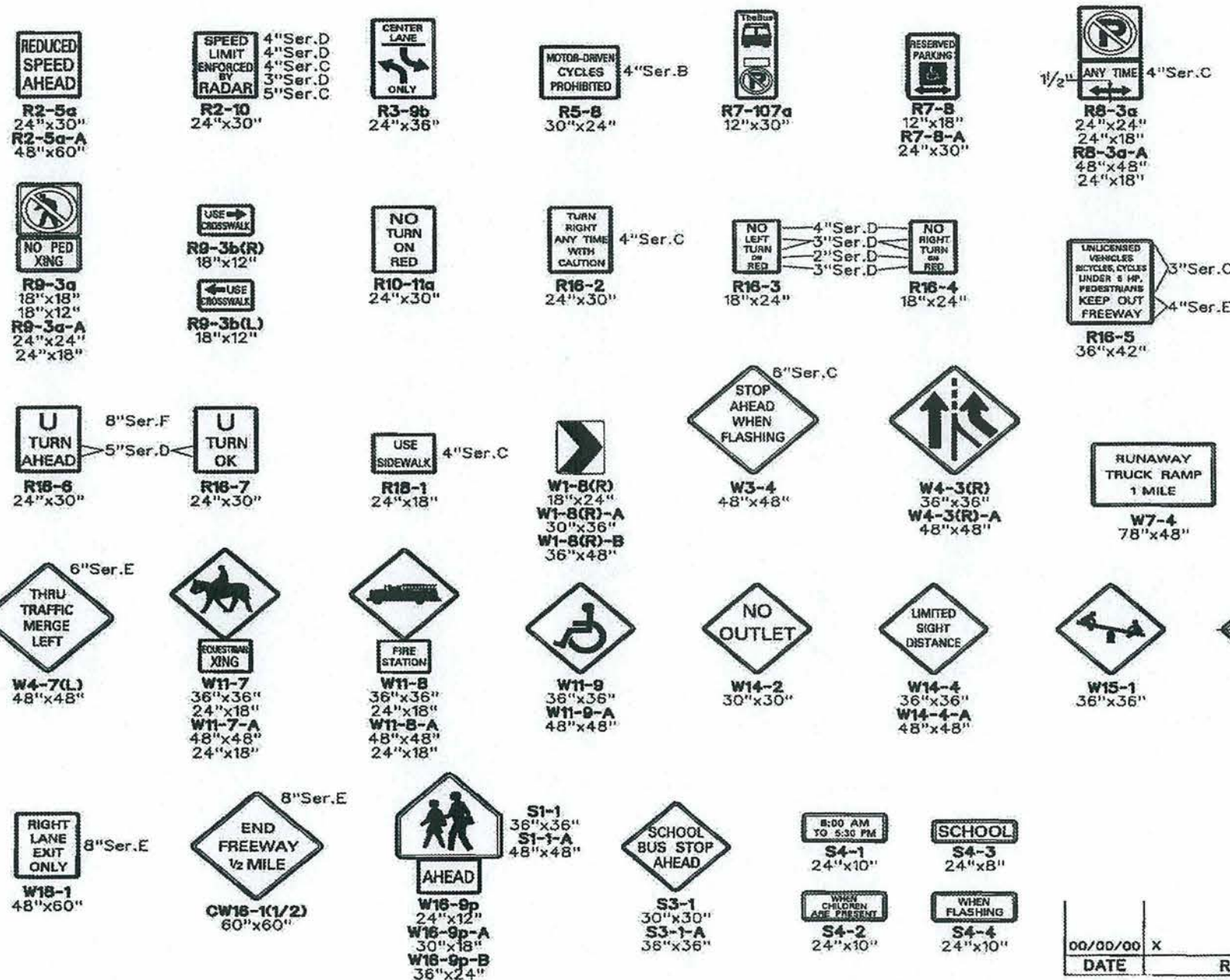
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Daniel A. Liddle
Expiration Date of License 4/30/2014

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

U.S. CUSTOMARY SPECIAL
(HDOT STD TE-05)
WARNING SIGNS

SPECIAL
633-J

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T65	T101



GENERAL NOTES

- Sign details shall conform to the latest editions of the following FHWA publications:
a. "Standard Alphabets for Highway Signs," and as amended.
b. "Standard Highway Signs," and as amended.
c. "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.

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

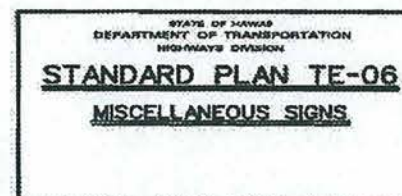
GOODFELLOW BROS., INC.
Contractor's Name:

[Signature] 1/2/14
Signature Date



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Expiration Date of License 4/30/2014



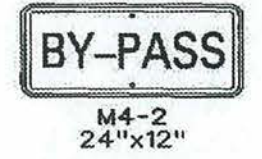
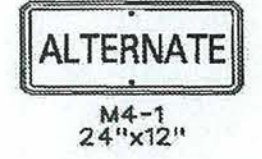
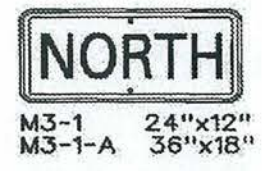
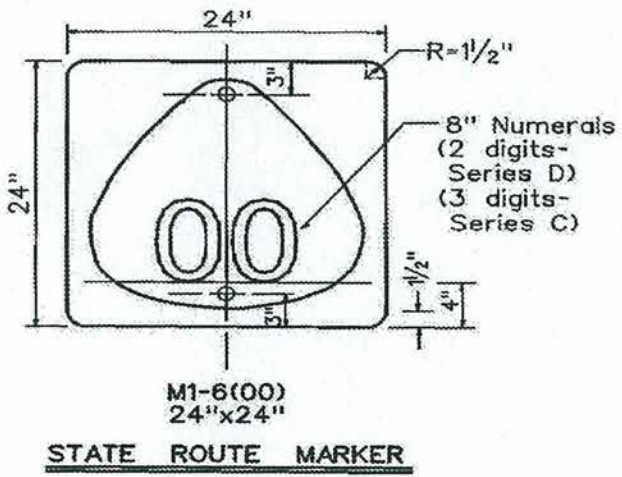
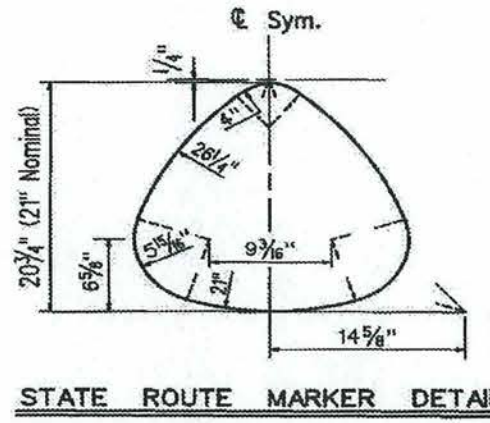
DATE	REVISION	APP'D.
00/00/00	X	

STANDARD PLAN TE-06 07/11/08

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

U.S. CUSTOMARY SPECIAL
(HDOT STD TE-06)
MISCELLANEOUS SIGNS

SPECIAL
633-K



GENERAL NOTES

1. 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.
2. All markers shall be reflectorized unless otherwise specified.
3. All markers shall have 3/8" bolt holes drilled at appropriate locations.
4. Numerals in () indicate numerals to be inserted for marker message. (R) or (L) indicates right or left.
5. 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
6. Markers prefixed with "IM" on the plans shall have a white legend on a blue background.

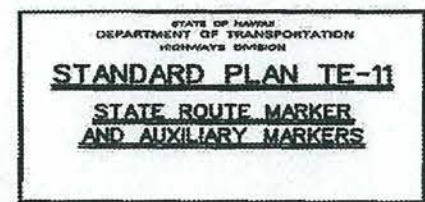
AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



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Daniel A. Liddle
Expiration Date of License 4/30/2014



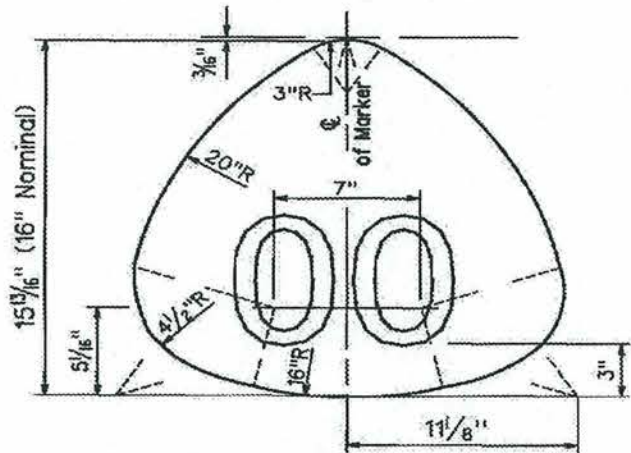
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DATE	REVISION	APP'D.

STANDARD PLAN TE-11 07/11/08

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY SPECIAL (HDOT STD TE-11) STATE ROUTE MARKER & AUXILIARY MARKERS	
SPECIAL 633-L	

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T67	T101

MARKER SIZE	MULTIPLY DIMENTIONS BY	NUMERAL SIZE
21"	1.3	8"
32"	2.0	12"
42"	2.63	16"

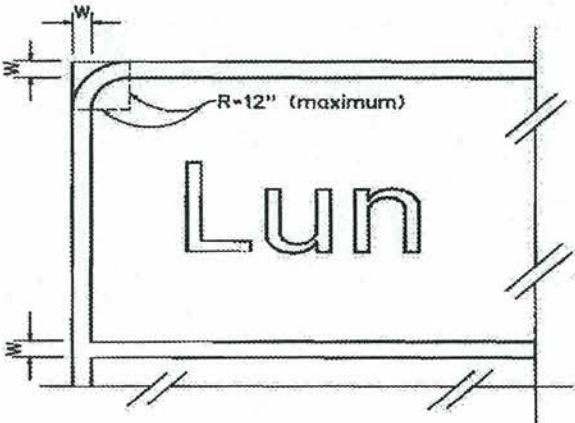


STATE ROUTE MARKER
FOR GUIDE SIGNS

NOTE:

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

RADI 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"

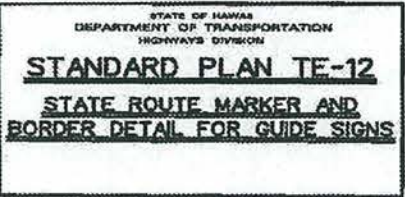


BORDER DETAIL
FOR GUIDE SIGNS

NOTE:

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

00/00/00	X	
DATE	REVISION	APP'D.



AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

[Signature] 1/2/14
Signature Date

STANDARD PLAN TE-12 07/11/08

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or under my supervision

[Signature]
Daniel A. Liddle

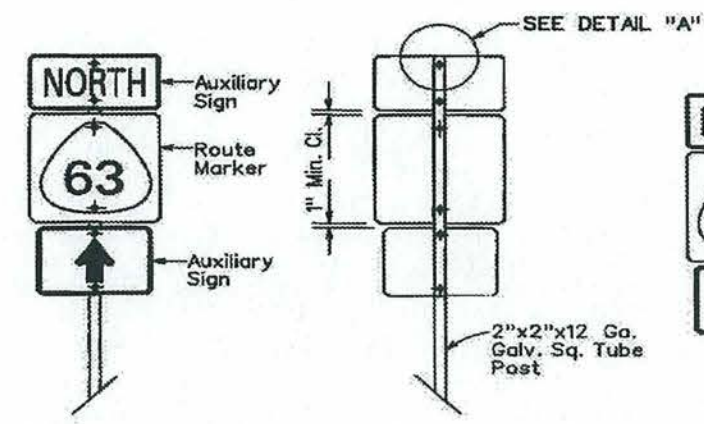
Expiration Date of License 4/30/2014

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

U.S. CUSTOMARY SPECIAL
(HDOT STD TE-12)
STATE ROUTE MARKER &
BORDER DETAIL FOR GUIDE SIGNS

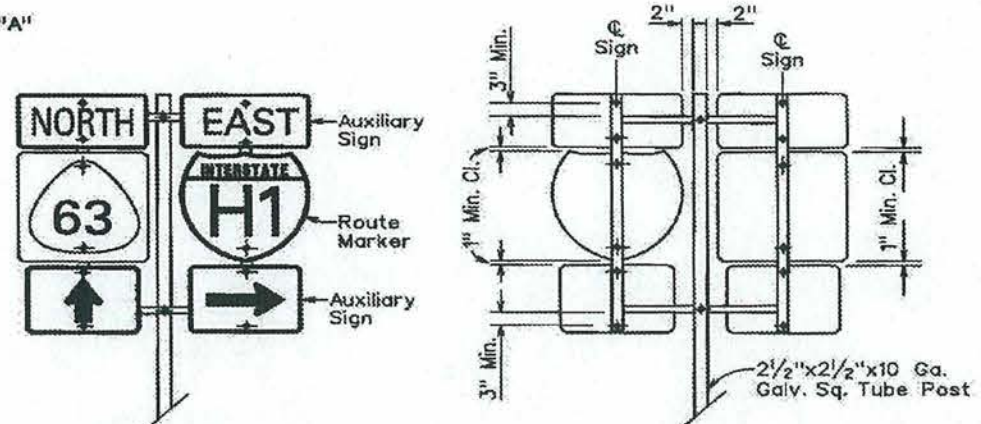
SPECIAL
633-M

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T68	T101



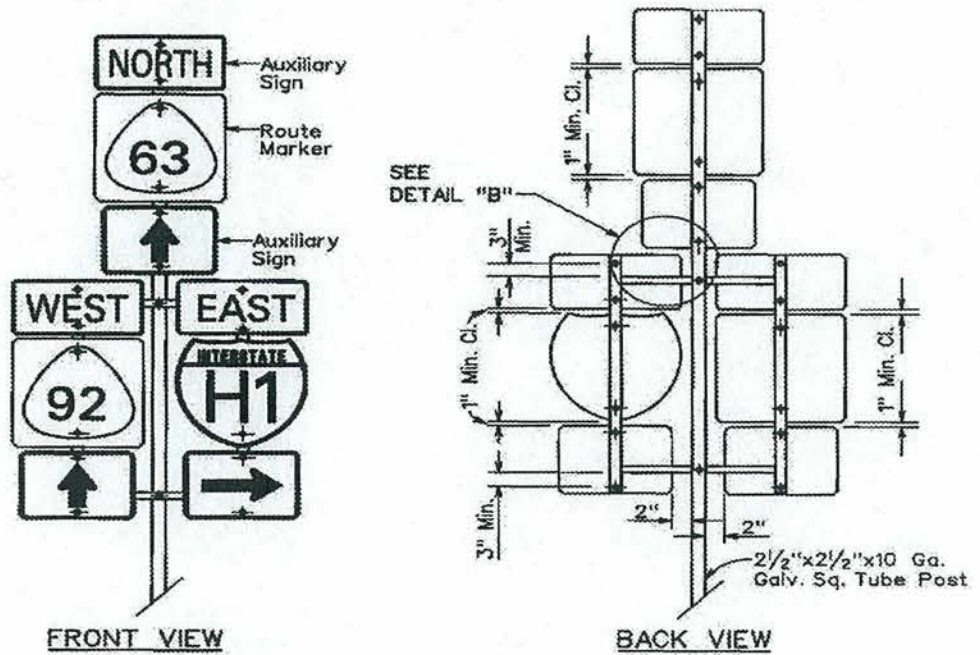
FRONT VIEW BACK VIEW

TYPE "A" ASSEMBLY



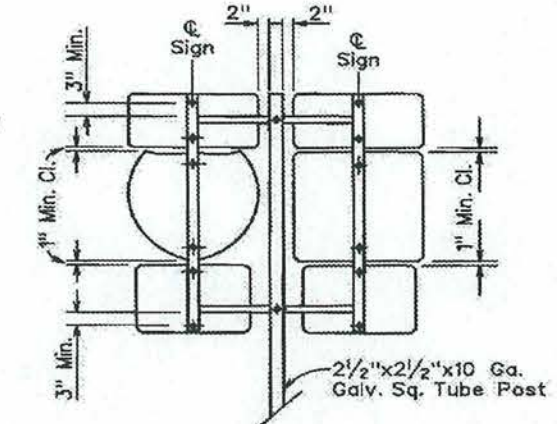
FRONT VIEW BACK VIEW

TYPE "B" ASSEMBLY

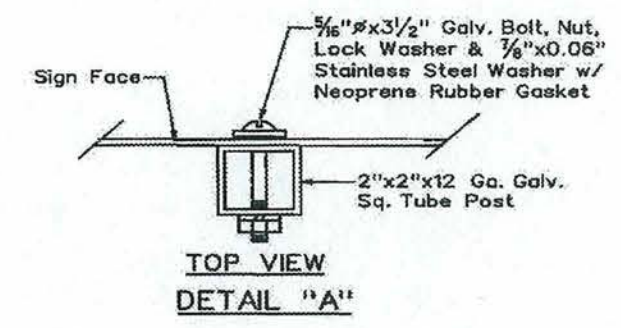


FRONT VIEW BACK VIEW

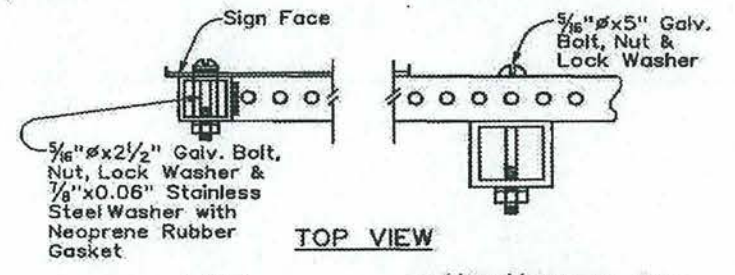
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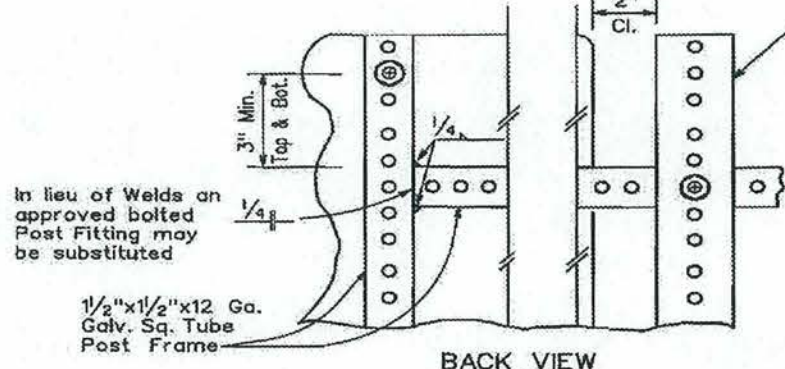
BACK VIEW



TOP VIEW
DETAIL "A"

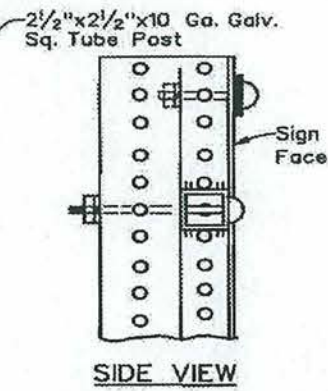


TOP VIEW



BACK VIEW

DETAIL "B"



SIDE VIEW

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DATE	REVISION	APP'D.

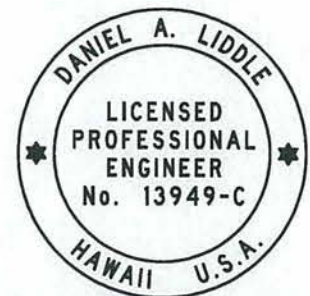
STANDARD PLAN TE-12A 07/11/08



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GOODFELLOW BROS., INC.
Contractor's Name:

Yair R... 1/2/14
Signature Date

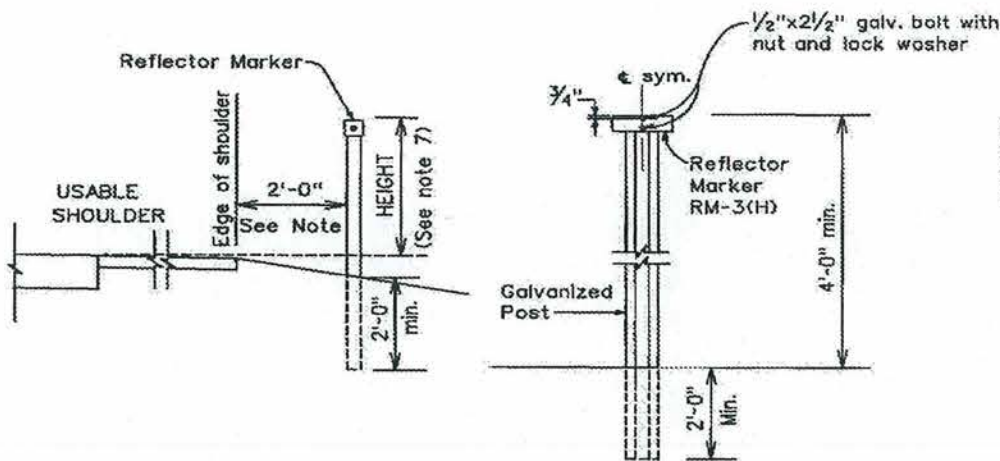


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Daniel A. Liddle
Expiration Date of License 4/30/2014

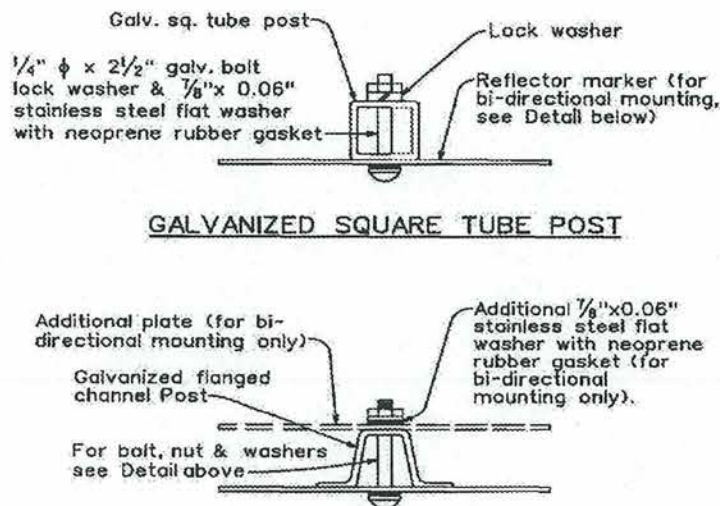
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION
U.S. CUSTOMARY SPECIAL (HDOT STD TE-12A) ROUTE MARKER ASSEMBLIES
SPECIAL 633-N

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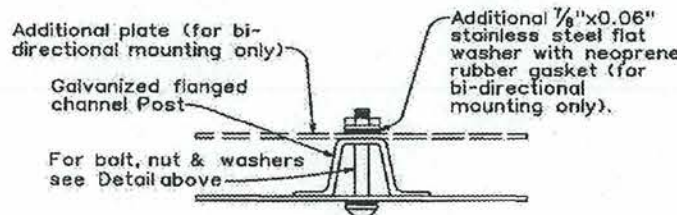
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T69	T101



REFLECTOR MARKER MOUNTING DETAIL



GALVANIZED SQUARE TUBE POST



GALVANIZED FLANGED CHANNEL POST

TYPICAL MOUNTING DETAILS

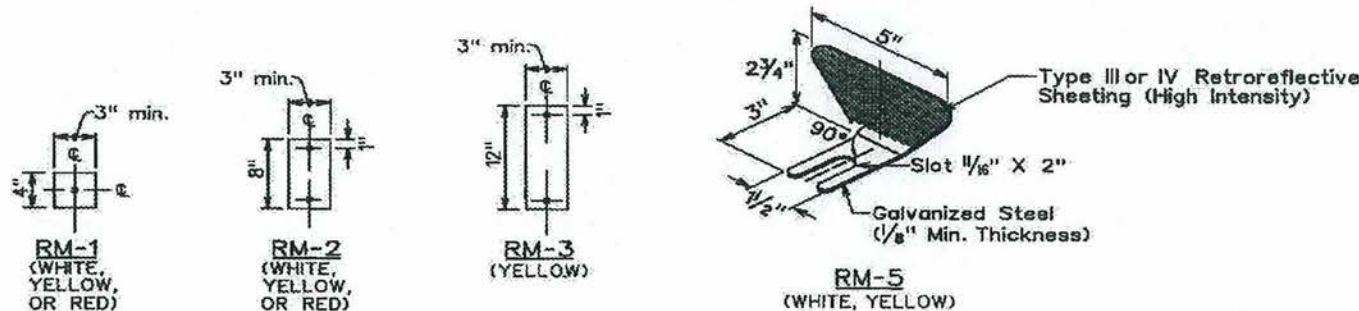
GENERAL NOTES:

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 Engineer.

AS-BUILT DRAWINGS/SPECIFICATIONS
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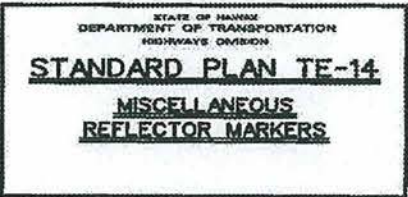
GOODFELLOW BROS., INC.
Contractor's Name:

John A. Liddle 1/2/14
Signature Date



REFLECTOR MARKERS

DATE	REVISION	APP'D.
00/00/00 X		



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Daniel A. Liddle
Expiration Date of License 4/30/2014

STANDARD PLAN TE-14 07/11/08

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

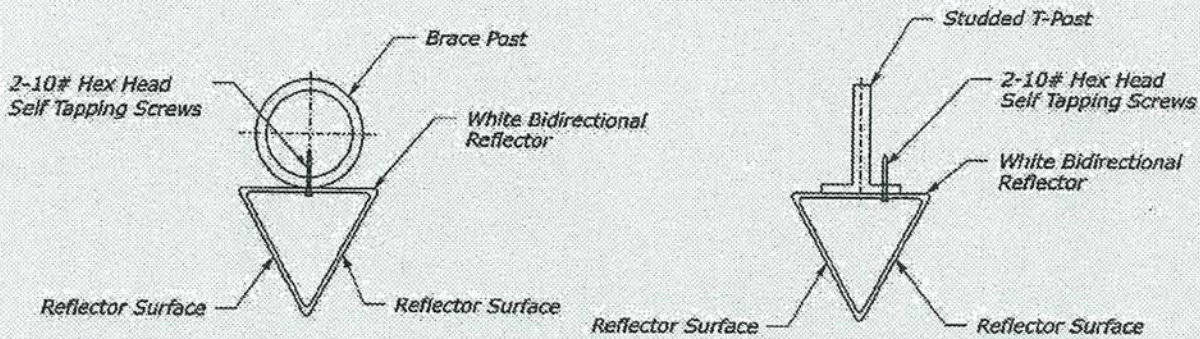
U.S. CUSTOMARY SPECIAL
(HDOT STD TE-14)
MISCELLANEOUS REFLECTOR MARKERS

SPECIAL
633-O

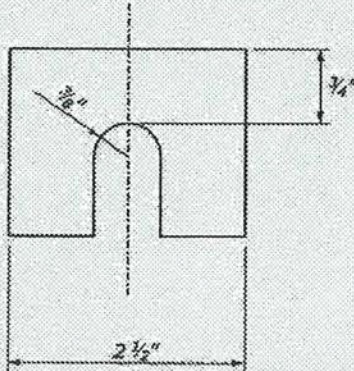
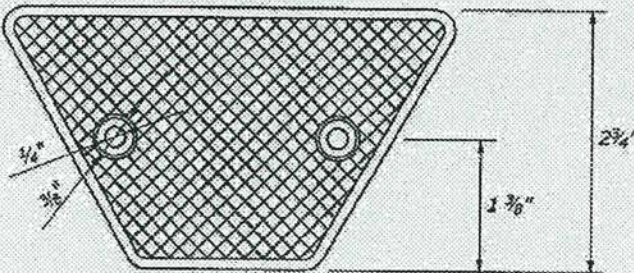
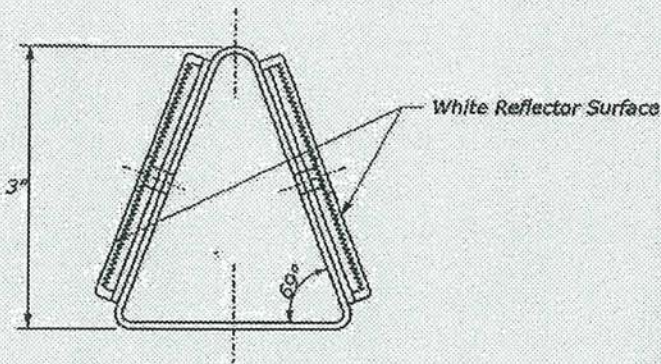
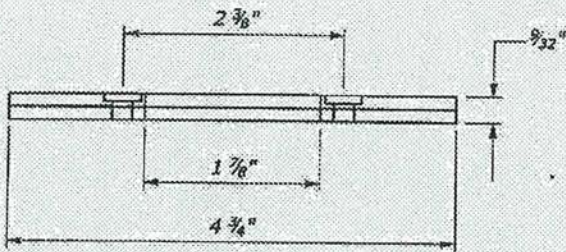
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T70	T101

NOTES:

1. Use white bidirectional reflectors on both brace and T-Posts.
2. Center reflectors between the top two horizontal wires of the woven wire fabric.
3. Obtain approval of final locations of the reflectors from the CO.
4. Submit alternate fastening/mounting systems to the CO for approval.



TYPICAL MOUNTING DETAILS



REFLECTOR MARKERS DETAILS

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



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Daniel A. Liddle

Expiration Date of License 4/30/2014

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

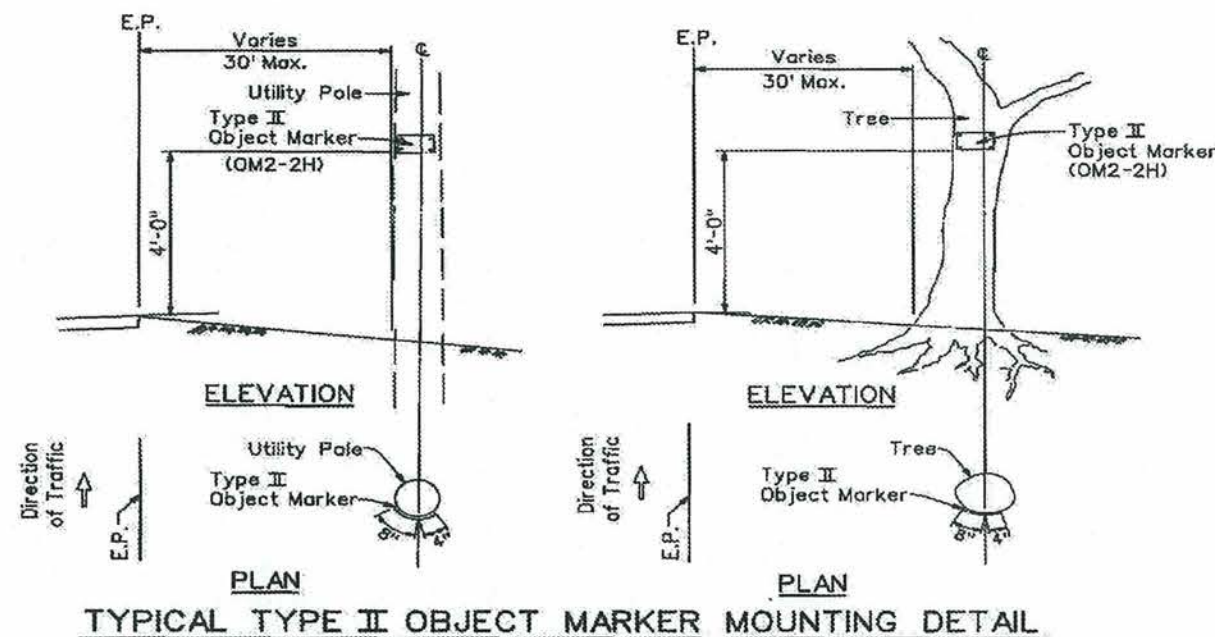
U.S. CUSTOMARY SPECIAL

REFLECTOR MARKERS

SPECIAL

633-OA

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T71	T101



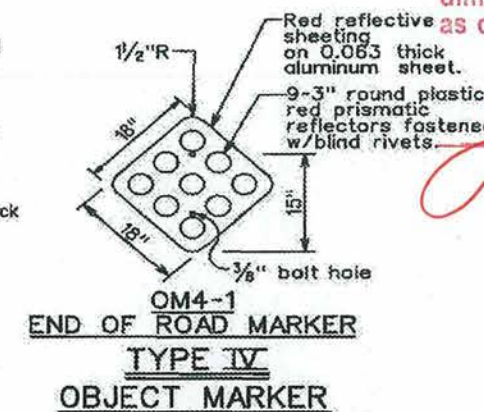
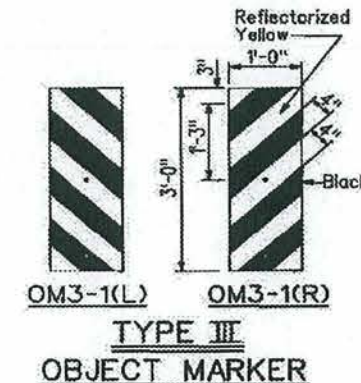
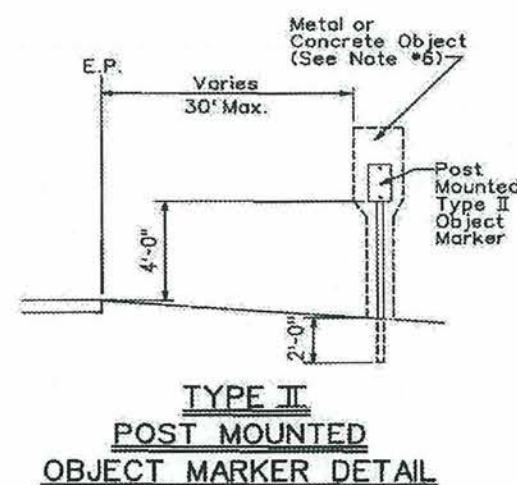
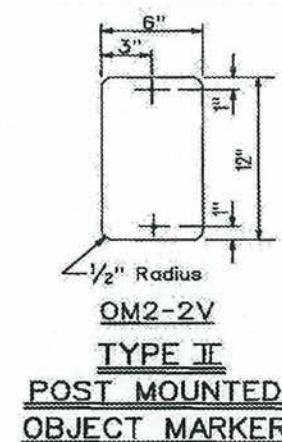
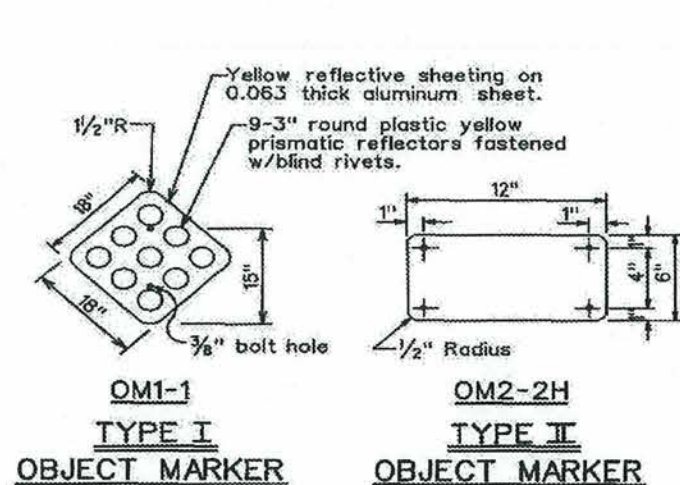
GENERAL NOTES

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 Engineer.
2. The Contractor shall prepare the mounting surface of each object as directed by the Engineer 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 $1\frac{3}{4}$ " 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 $\frac{1}{4}$ "x2" galv. bolts, nuts and washers. Metal posts shall be galvanized and shall be either $1\frac{1}{2}$ "x $1\frac{1}{2}$ ", 12 gauge square tube posts or 1.12 lbs. per ft. flanged channel posts.

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODELLOW BROS., INC.
Contractor's Name:

Yemi Han 1/2/14
Signature Date



DATE	REVISION	APP'D.
00/00/00 X		

STANDARD PLAN TE-15 07/11/08



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Daniel A. Liddle
Expiration Date of License 4/30/2014

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

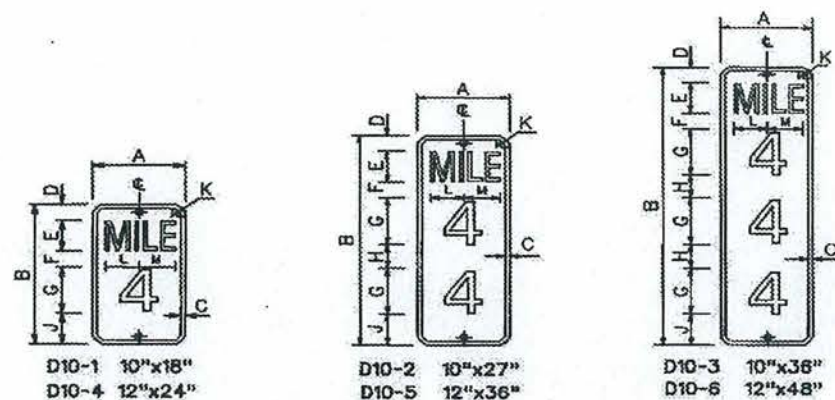
U.S. CUSTOMARY SPECIAL
(HDOT STD TE-15)
MISCELLANEOUS REFLECTOR MARKERS

SPECIAL
633-P

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

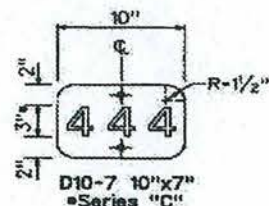
GOODFELLOW BROS., INC.
Contractor's Name:

[Signature] 1/2/14
Date

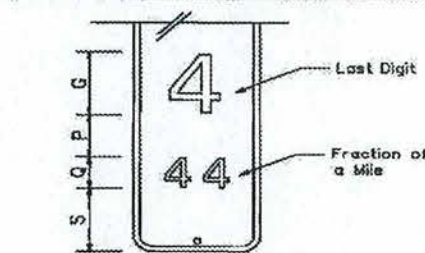


MILEPOST MARKER PLATE DETAILS

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	1/2	3 3/4	3 3/4	B	C
D10-4	12x24	12	24	1/2	3	4	3	10	-	4	1/2	4 3/4	4 3/4	C	C
D10-2	10x27	10	27	1/2	2	4	2	6	3	4	1/2	3 3/4	3 3/4	B	C
D10-5	12x36	12	36	1/2	3	4	3	10	3	4	1/2	4 3/4	4 3/4	C	C
D10-3	10x36	10	36	1/2	2	4	2	6	3	4	1/2	3 3/4	3 3/4	B	C
D10-6	12x48	12	48	1/2	3	4	3	10	2 1/2	4	1/2	4 3/4	4 3/4	C	C

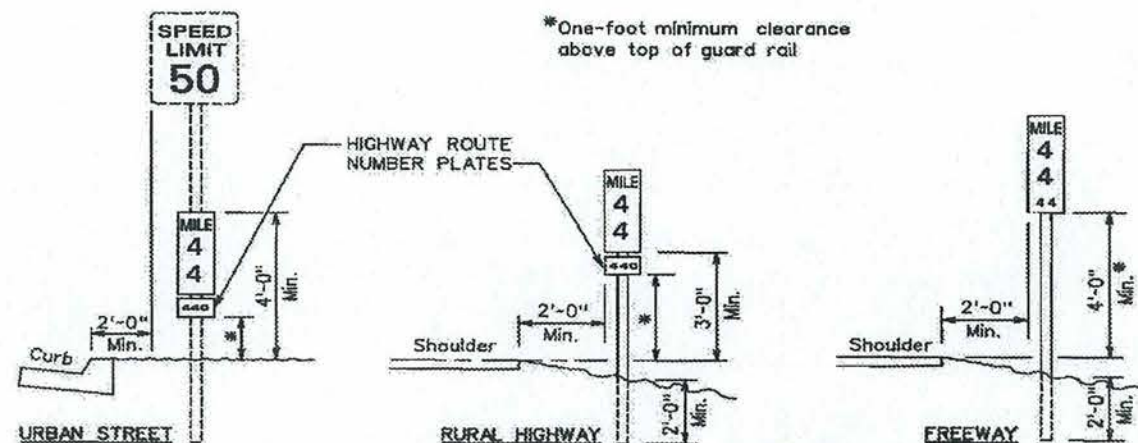


HIGHWAY ROUTE NUMBER PLATE DETAIL

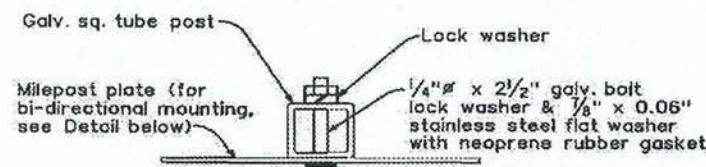


MILEPOST MARKER FRACTION DETAIL

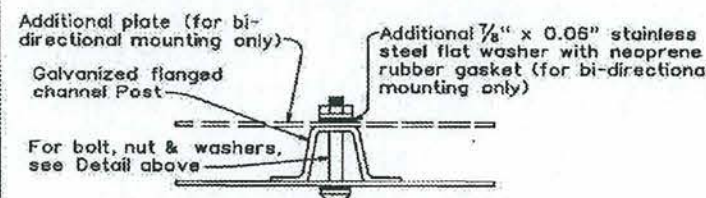
MILEPOST PLATE SCHEDULE WITH FRACTION OF A MILE						
NAME	SIZE	G	P	Q	S	NUMERAL SERIES
D10-1a	10"x27"	6"	4"	3"	6"	C
D10-4a	12"x36"	10"	4"	5"	7"	C
D10-2a	10"x36"	6"	4"	3"	6"	C
D10-5a	12"x48"	10"	4"	5"	6"	C
D10-3a	10"x48"	6"	4"	3"	6"	C
D10-6a	10"x60"	10"	4"	5"	6"	C



TYPICAL ROADSIDE INSTALLATION



GALVANIZED SQUARE TUBE POST



GALVANIZED FLANGED CHANNEL POST

TYPICAL MOUNTING DETAILS

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 7/8" 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)

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION		
STANDARD PLAN TE-16		
MILE POSTS		
00/00/00 X	REVISION	APP'D.

STANDARD PLAN TE-16 07/11/08



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Daniel A. Liddle

Expiration Date of License 4/30/2014

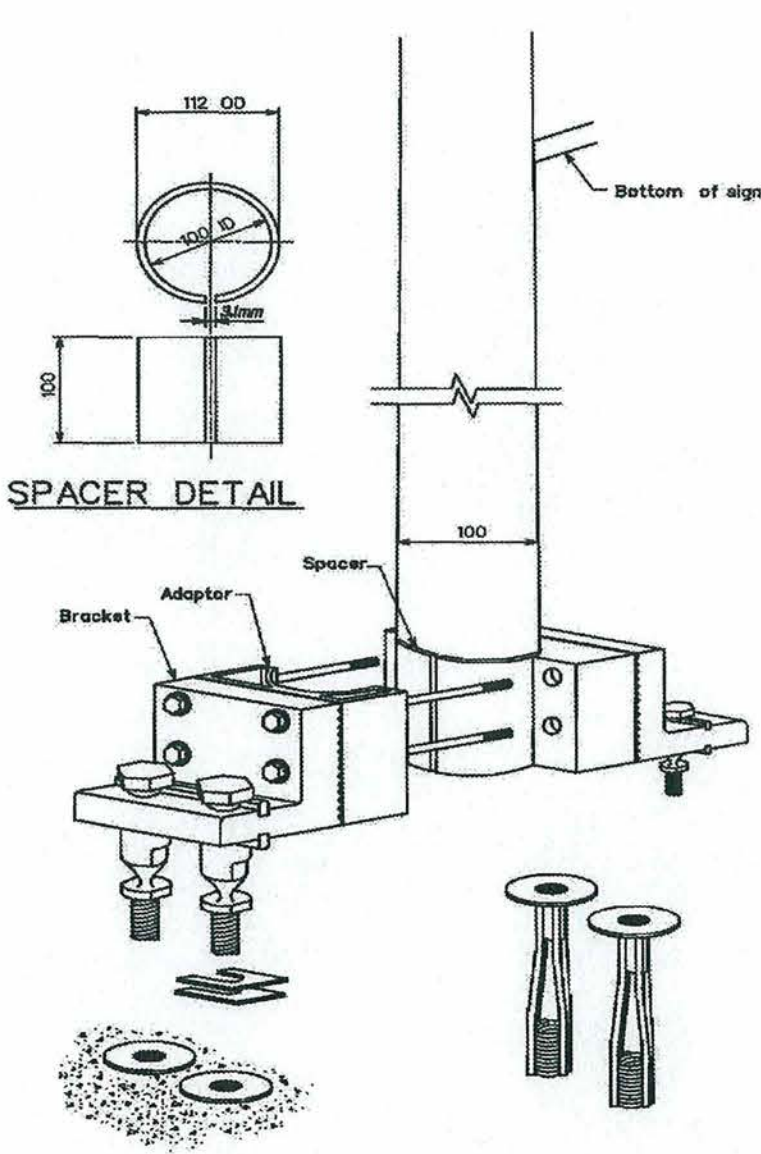
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

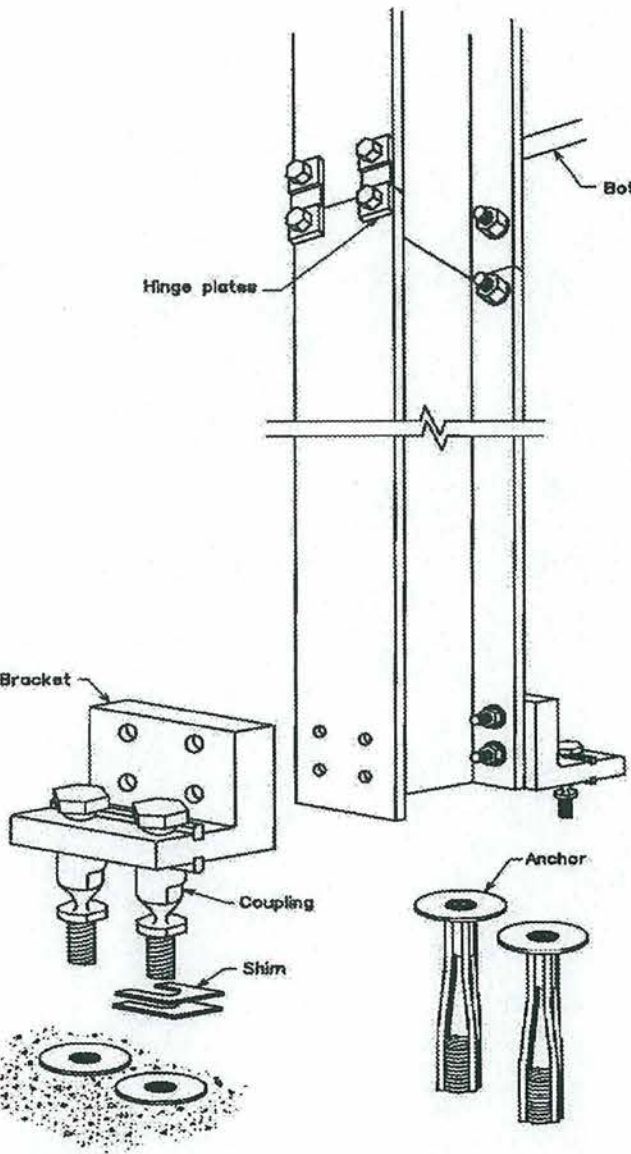
(HDOT STD TE-16)
MILEPOSTS

SPECIAL
633-Q

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T73	T101



TRANSPO TYPE APx4.5 (S/B) (OR EQUAL)
Use for 100 mm diameter aluminum tube



TRANSPO TYPE A16-LP (OR EQUAL)
Use for W150x14 Steel beam

- Notes:**
1. Assemble according to Manufacturer's instructions.
 2. Coordinate size and location of sign with appropriate sign breakaway mount per Manufacturer's instructions.
 3. All dimensions and steelmember sizes are shown in metric.

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:
[Signature] 1/2/14
Signature Date

00/00/00	X	
DATE	REVISION	APP'D.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD PLAN TE-21A
SIGN BREAKAWAY MOUNTS

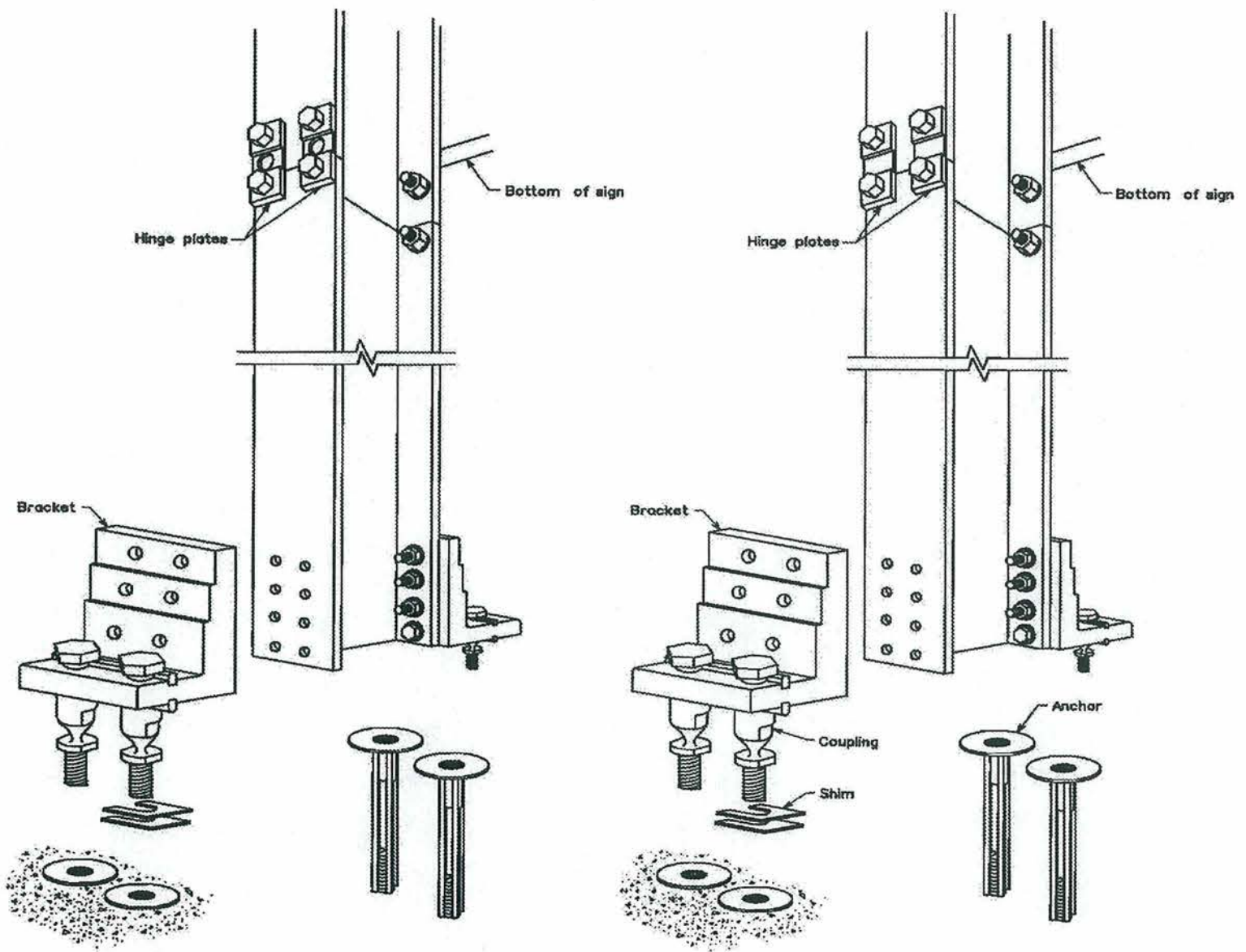


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Daniel A. Liddle
Expiration Date of License 4/30/2014

STANDARD PLAN TE-21A 05/31/07

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY SPECIAL (HDOT STD TE-21A) BREAK-AWAY SIGN SUPPORTS FOR GROUND MOUNTED GUIDE SIGNS	
SPECIAL 633-R	

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T74	T101



TRANPO TYPE B-525-LP (OR EQUAL)
Use for W150x18, W150x22, W200x27,
or W200x31 steel beams

- Notes:
1. Assemble according to Manufacturer's instructions.
 2. Coordinate size and location of sign with appropriate sign breakaway mount per Manufacturer's instructions.
 3. All dimensions and steel member sizes are shown in metric.

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:
[Signature] 1/2/14
Signature Date

00/00/00	X	
DATE	REVISION	APP'D.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD PLAN TE-21B
SIGN BREAKAWAY MOUNTS



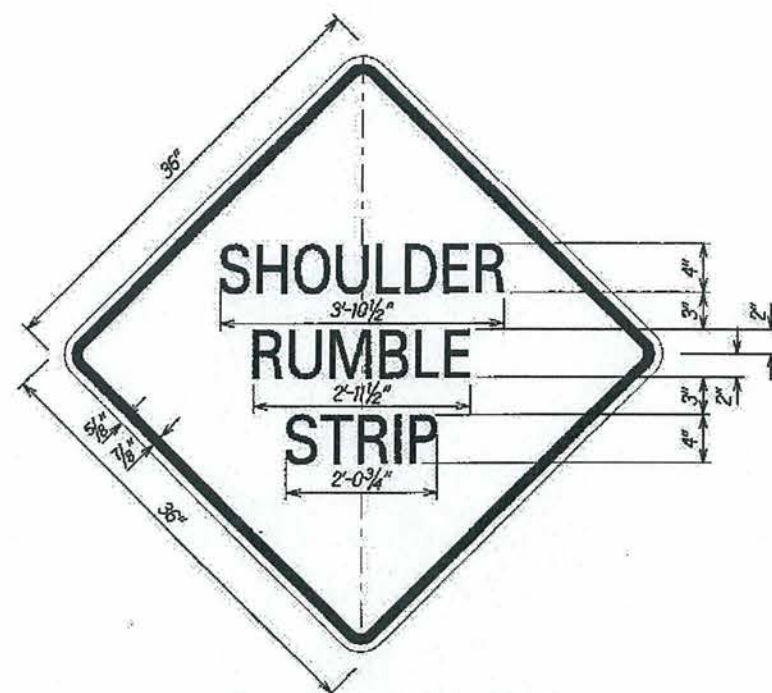
STANDARD PLAN TE-21B 05/31/07

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Daniel A. Liddle
Expiration Date of License 4/30/2014

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY SPECIAL (HDOT STD TE-21B) BREAK-AWAY SIGN SUPPORTS FOR GROUND MOUNTED GUIDE SIGNS	
	SPECIAL 633-S

3/21/2012 2:55:28 PM S:\Tranpro\100013746-SR(HwyDes)Rdwy\Sheets_Bld_Package_217-600\HI SR 200(00)_esp633-S.dgn

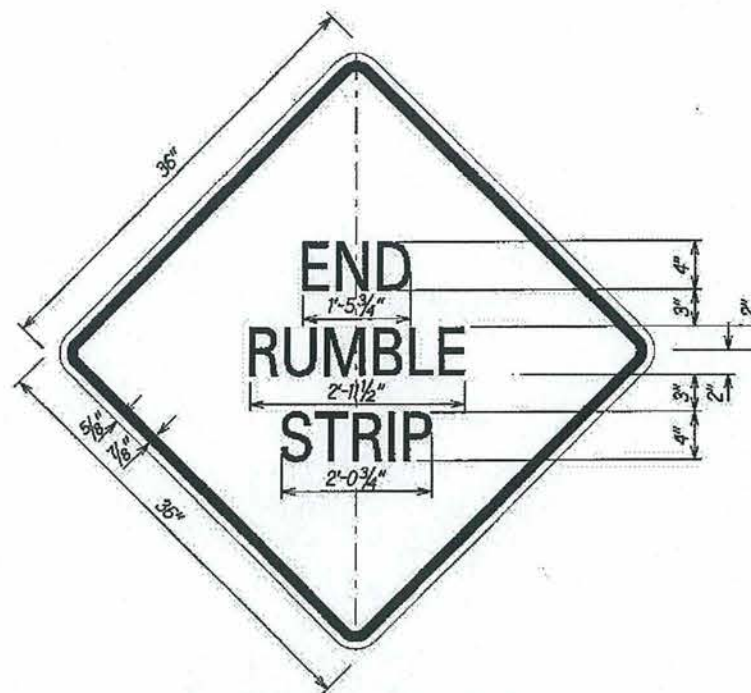
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T75	T101



SHOULDER RUMBLE STRIP SIGN

Install per item number 63301-0000 Sign System.

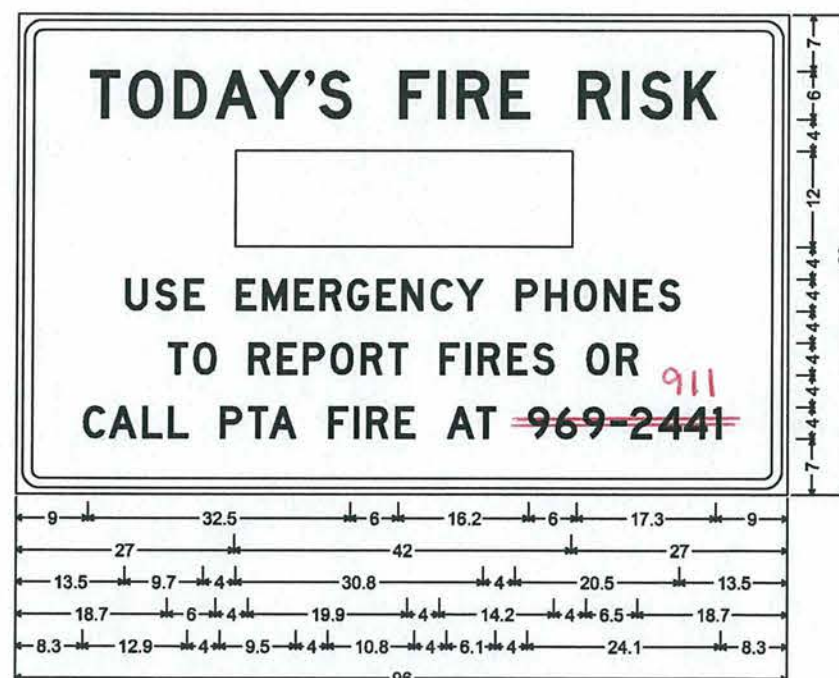
SPECIAL-1



END RUMBLE STRIP SIGN

Install per item number 63301-0000 Sign System.

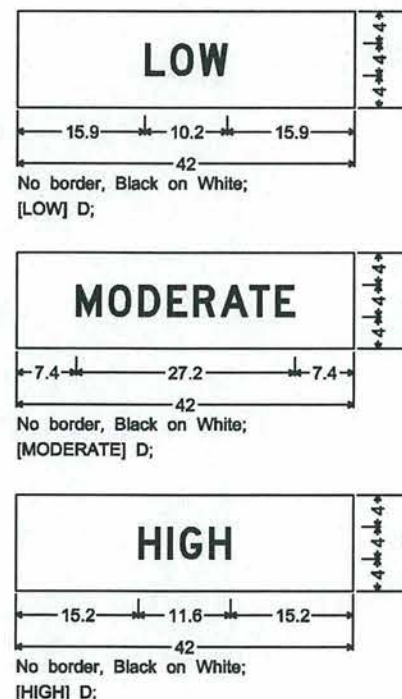
SPECIAL-2



3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;
[TODAY'S FIRE RISK] D; [USE EMERGENCY PHONES] D;
[TO REPORT FIRES OR] D; [CALL PTA FIRE AT 969-2441] D;

SPECIAL-3

Install per item number 63301-0000 Sign System



INTERCHANGABLE SIGNS
FOR SPECIAL-3

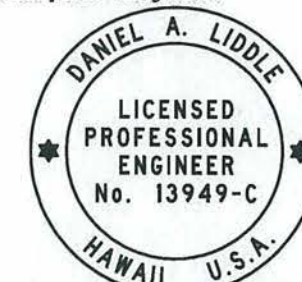
SIGN NOTES

- Letter Size:
 - Use series "E" when letters are all uppercase.
 - Use 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 2009)
 - "Standard 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.
- 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 retroreflectorized yellow background.

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



This work was prepared by me or under my supervision

Daniel A. Liddle

Expiration Date of License 4/30/2014

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

U.S. CUSTOMARY SPECIAL

SADDLE ROAD SIGN NOTES

SPECIAL
633-T

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T76	T101



1.5" Radius, 0.5" Border, Black on White;
 [WARNING] Red D; [RESTRICTED AREA] White D;
 [This activity has been declared a restricted area by authority of the commander in accordance with] White D;
 [the provisions of the directive issued by the Secretary of Defense on 20 August 1954, pursuant to] White D;
 [the provisions of Section 21, Internal Security Act of 1950. Unauthorized entry is prohibited. All] White D;
 [persons and vehicles entering herein are liable to search. The introduction of weapons,] White D;
 [ammunition, explosives or other prohibited items and photography of the facilities is prohibited] White D;
 [without specific authorization from the commander.] White D;

SPECIAL-4

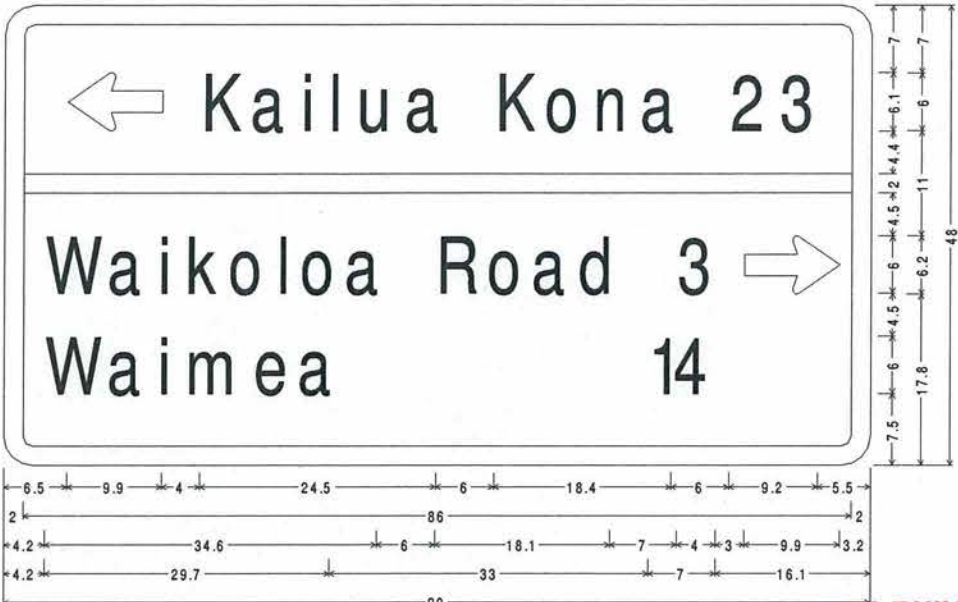
Install per item number 63301-0000 Sign System



1.5" Radius, 1.0" Border, White on Blue;
 [STATE OF HAWAII] D; [CALL] D;
 [BOX] D; [200N00##] D;

SPECIAL-5

Install per item number 63301-0000 Sign System



SR Special 12; 3.0" Radius, 2.0" Border, White on Green;
 Standard Arrow Custom 9.9" X 6.1" 180[; [Kailua Kona 23] D; [Waikoloa Road] D; [3] D; [Waimea] D;
 [14] D; Standard Arrow Custom 9.9" X 6.1" 0[;

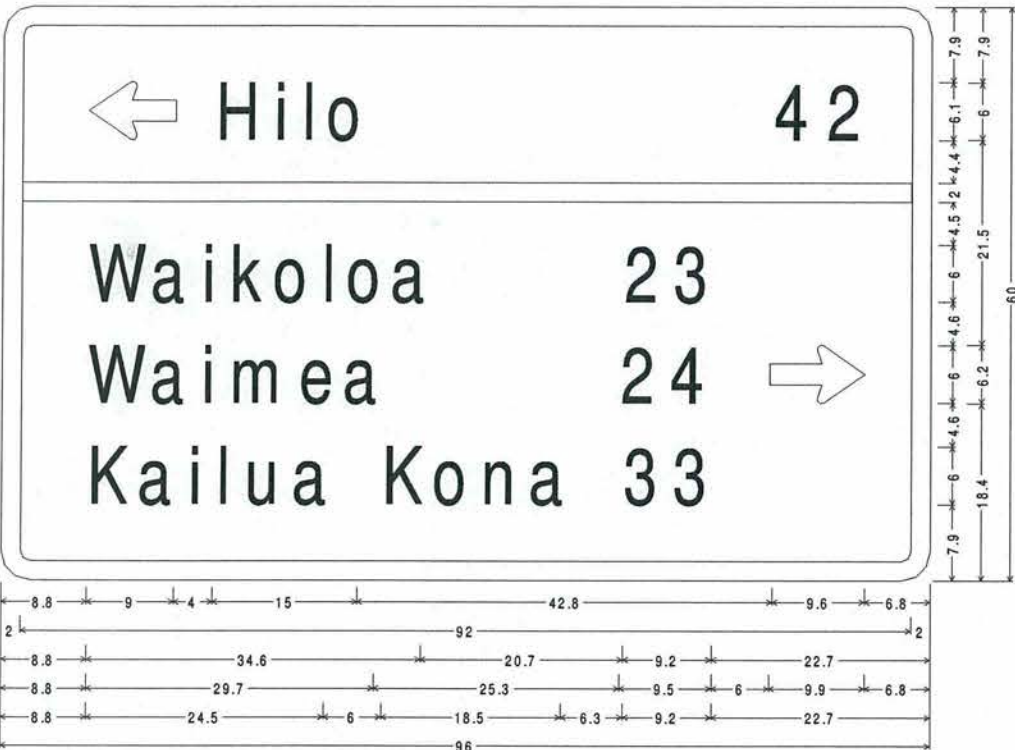
SPECIAL-6 D1-3a

Install per item number 63301-0000 Sign System

AS-BUILT DRAWINGS/SPECIFICATIONS
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GOODFELLOW BROS., INC.
 Contractor's Name:

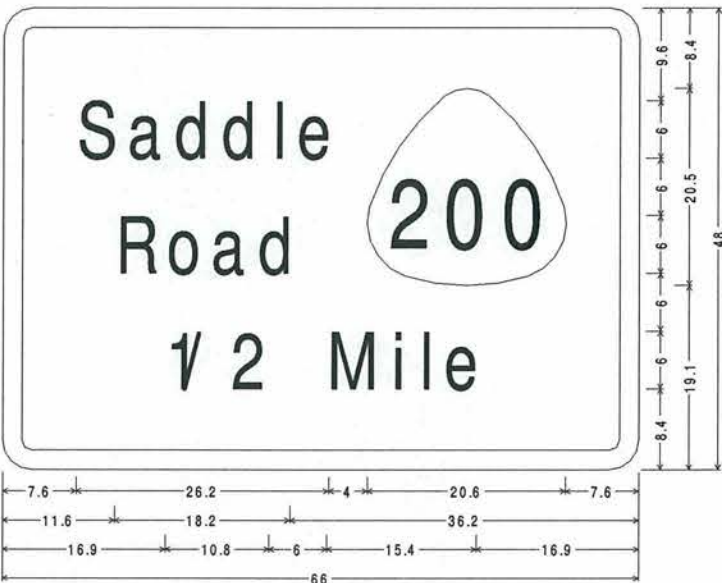
[Signature] 1/2/14
 Signature Date



SR Special 12; 3.0" Radius, 2.0" Border, White on Green;
 Standard Arrow Custom 9.0" X 6.1" 180[; [Hilo] D; [42] D; [Waikoloa] D; [23] D; [Waimea] D; [24] D;
 Standard Arrow Custom 9.9" X 6.1" 0[; [Kailua Kona] D; [33] D;

SPECIAL-7

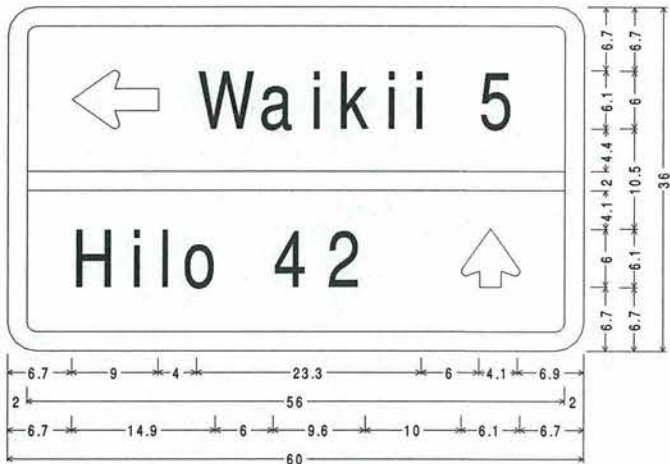
Install per item number 63301-0000 Sign System



3.0" Radius, 2.0" Border, White on Green;
 [Saddle] D; [Road] D; [1/2 Mile] D;

SPECIAL-8 D2-1

Install per item number 63301-0000 Sign System



SR Special 12; 3.0" Radius, 2.0" Border, White on Green;
 Standard Arrow Custom 9.0" X 6.1" 180[; [Waikii 5] D; [Hilo 42] D;
 Standard Arrow Custom 6.1" X 6.1" 90[;

SPECIAL-9 D1-2a

Install per item number 63301-0000 Sign System



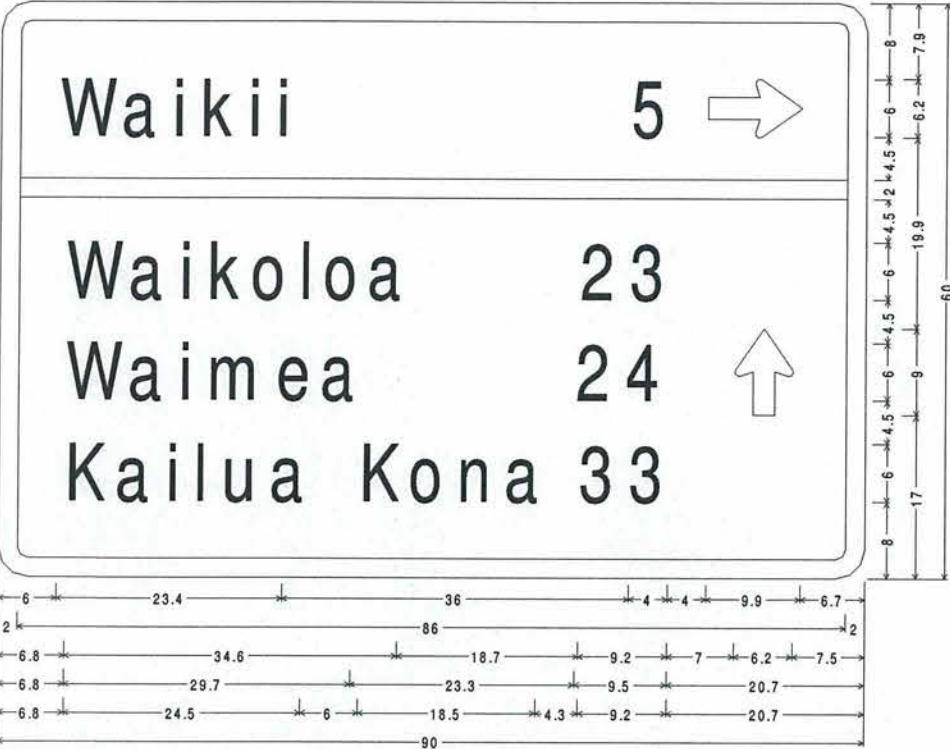
This work was prepared by me
 or under my supervision
Daniel A. Liddle
 Expiration Date of License 4/30/2014

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

SADDLE ROAD SIGN DETAILS

SPECIAL
 633-U

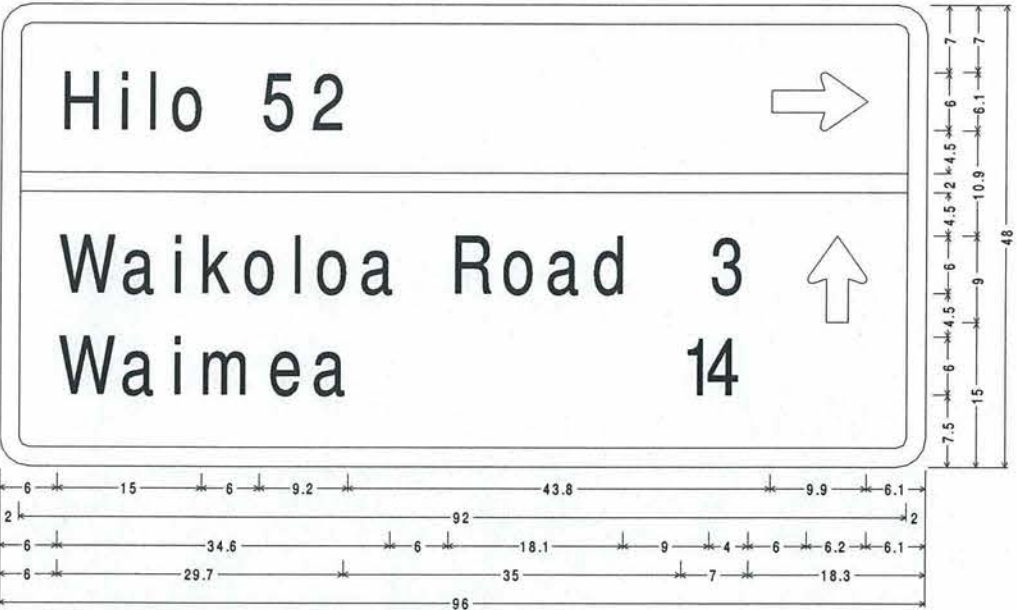
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T77	T101



SR Special 12; 3.0" Radius, 2.0" Border, White on Green;
[Waikii] D; [5] D; Standard Arrow Custom 9.9" X 6.1" 0°; [Waikoloa] D; [23] D; [Waimea] D; [24] D;
[Kailua Kona] D; [33] D; Standard Arrow Custom 9.0" X 6.1" 90°;

SPECIAL-10

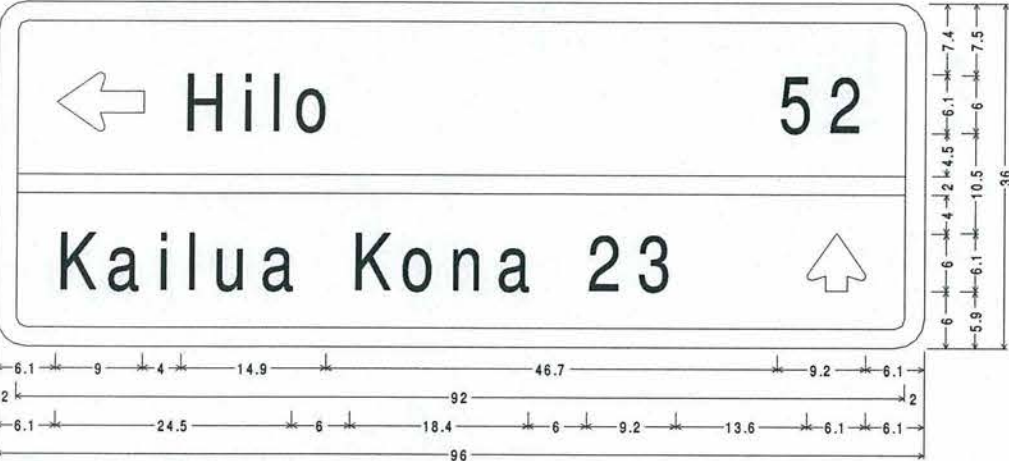
Install per item number 63301-0000 Sign System



SR Special 12; 3.0" Radius, 2.0" Border, White on Green;
[Hilo 52] D; Standard Arrow Custom 9.9" X 6.1" 0°; [Waikoloa Road] D; [3] D; [Waimea] D; [14] D;
Standard Arrow Custom 9.0" X 6.1" 90°;

SPECIAL-11
D1-3a

Install per item number 63301-0000 Sign System



SR Special 12; 3.0" Radius, 2.0" Border, White on Green;
Standard Arrow Custom 9.0" X 6.1" 180°; [Hilo] D; [52] D; [Kailua Kona 23] D;
Standard Arrow Custom 6.1" X 6.1" 90°;

SPECIAL-12
D1-2a

Install per item number 63301-0000 Sign System

AS-BUILT DRAWINGS/SPECIFICATIONS
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GOODFELLOW BROS., INC.

Contractor's Name:

[Signature] 1/2/14
Signature Date



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Daniel A. Liddle

Expiration Date of License 4/30/2014

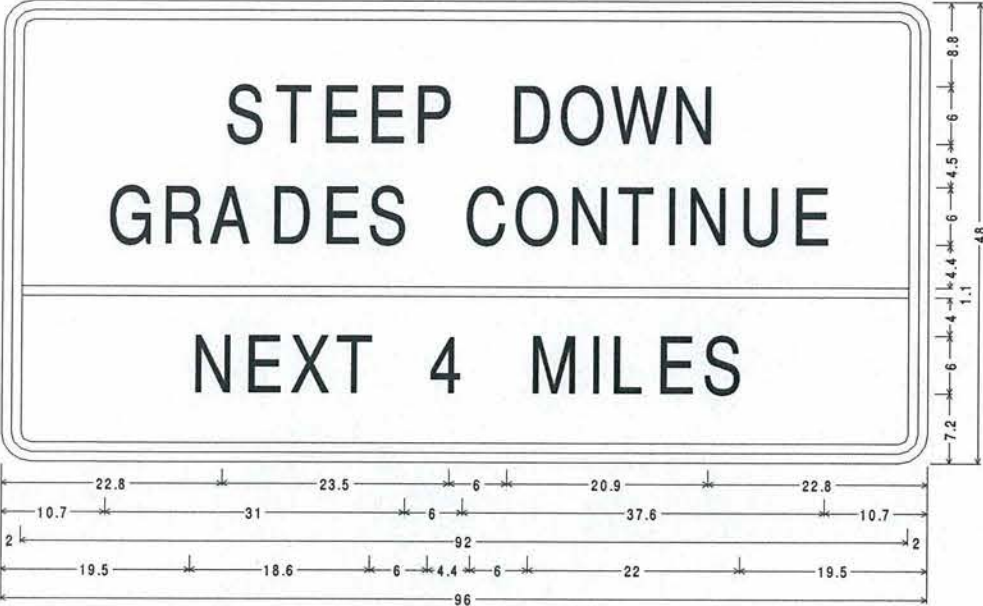
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

SADDLE ROAD SIGN DETAILS

SPECIAL
633-V

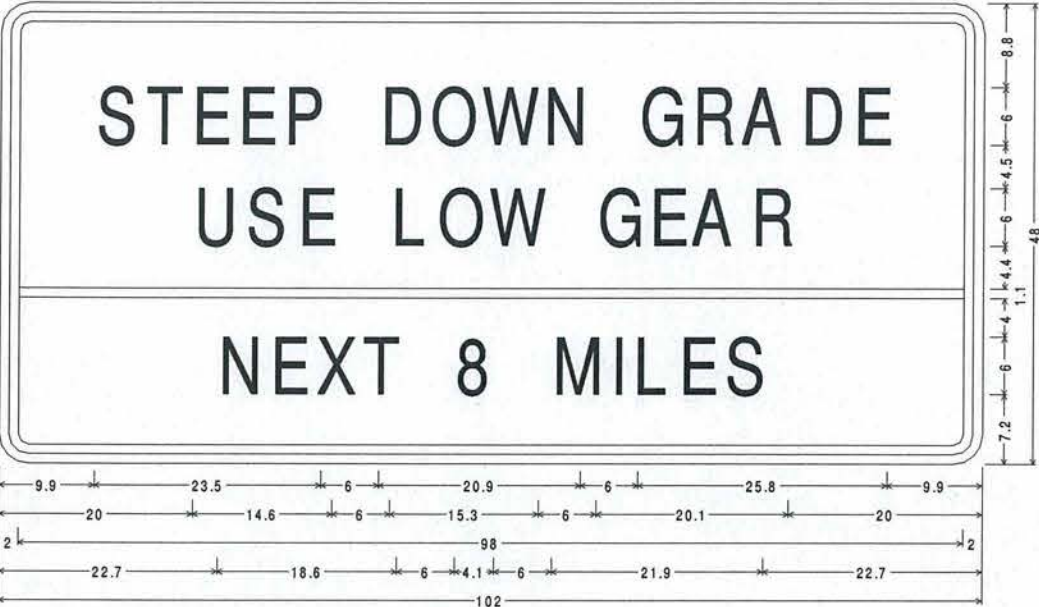
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T78	T101



Truck - Use Low Gear; 3.0" Radius, 1.0" Border, 1.0" Indent, Black on Yellow;
[STEEP DOWN] D; [GRADES CONTINUE] D; [NEXT 4 MILES] D;

SPECIAL-13

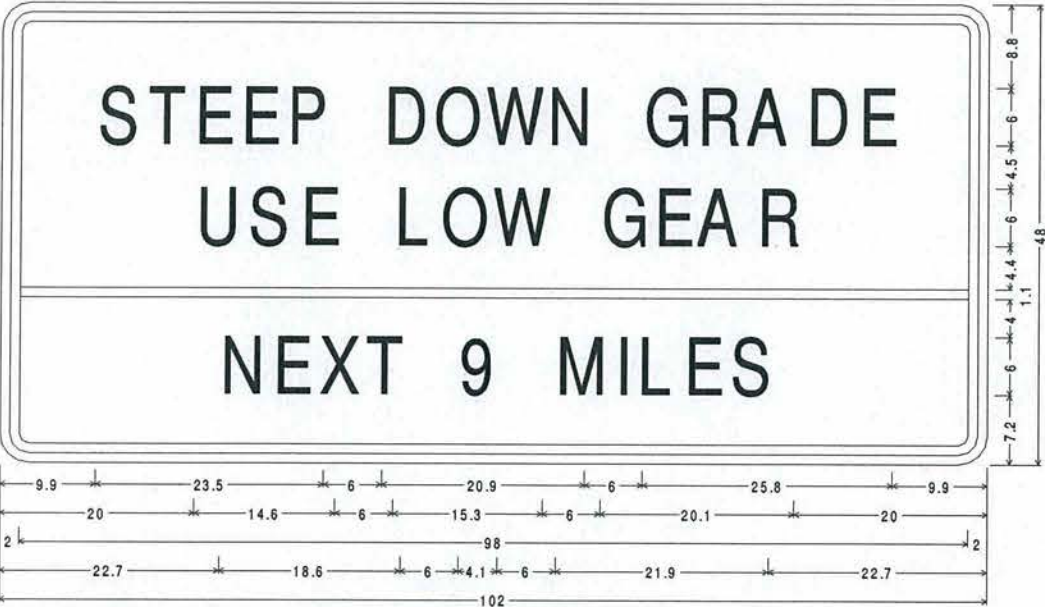
Install per item number 63301-0000 Sign System



Truck - Use Low Gear; 3.0" Radius, 1.0" Border, 1.0" Indent, Black on Yellow;
[STEEP DOWN GRADE] D; [USE LOW GEAR] D; [NEXT 8 MILES] D;

SPECIAL-14

Install per item number 63301-0000 Sign System



Truck - Use Low Gear; 3.0" Radius, 1.0" Border, 1.0" Indent, Black on Yellow;
[STEEP DOWN GRADE] D; [USE LOW GEAR] D; [NEXT 9 MILES] D;

SPECIAL-15

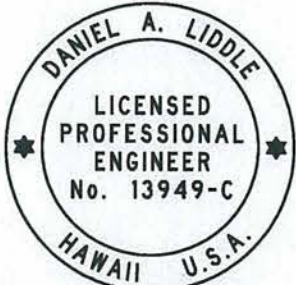
Install per item number 63301-0000 Sign System

AS-BUILT DRAWINGS/SPECIFICATIONS

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GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



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Daniel A. Liddle

Expiration Date of License 4/30/2014

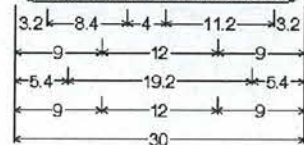
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY SPECIAL

SADDLE ROAD SIGN DETAILS

SPECIAL
633-W

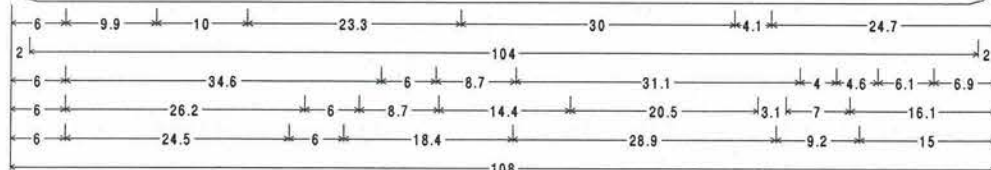
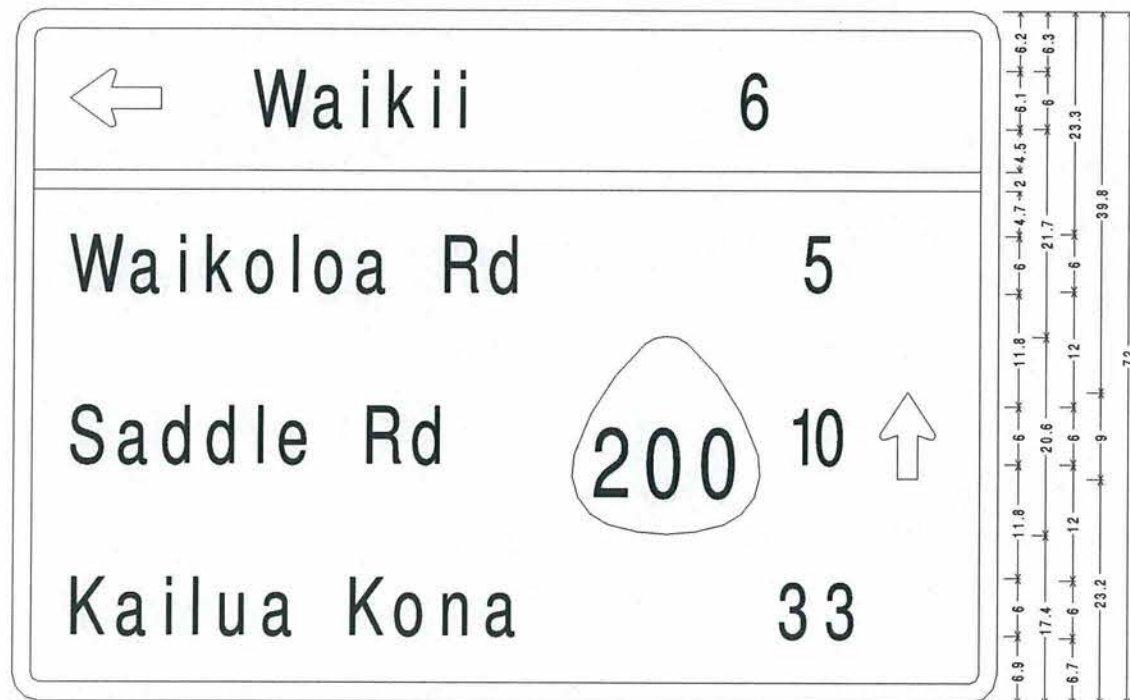
STATE	PROJECT	SHEET NO.	TOTAL SHEETS
HI	HI A-AD 6(7)	T79	T101



Smokey The Bear Sign;
2.0" Radius, 0.5" Border, 0.5" Indent, Black on Yellow;
"DRY AREA" C; Rectangle White;
"PREVENT" C; "FIRES" C;

SPECIAL-16

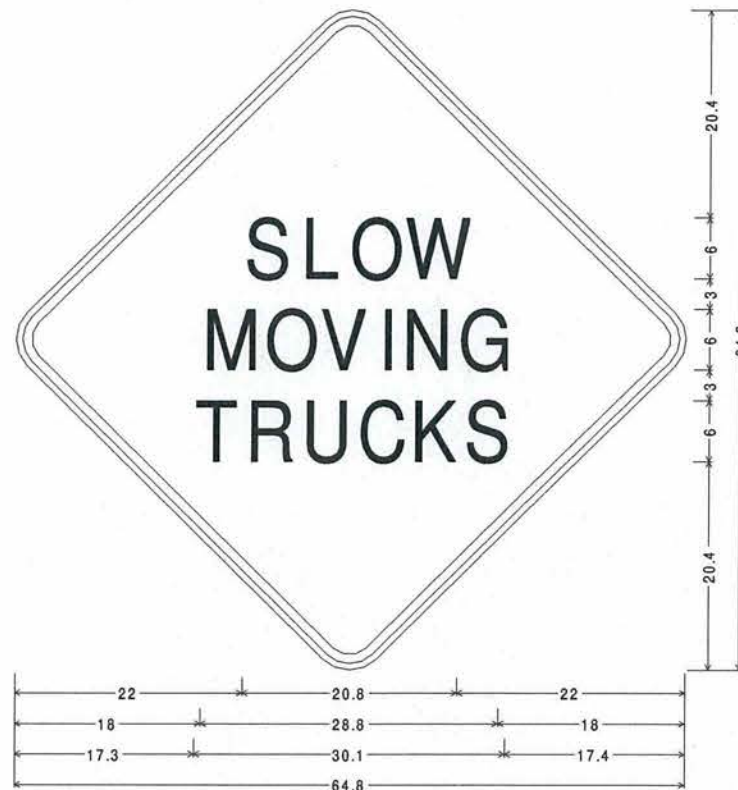
Install per item number 63301-0000 Sign System



SR Special 18; 3.0" Radius, 2.0" Border, White on Green;
Standard Arrow Custom 9.9" X 6.1" 180°; [Waikii 6] D; [Waikoloa Rd] D; [Saddle Rd] D; [Kailua Kona] D; [5] D; [10] D;
[33] D; Standard Arrow Custom 9.0" X 6.1" 90°;

SPECIAL-18

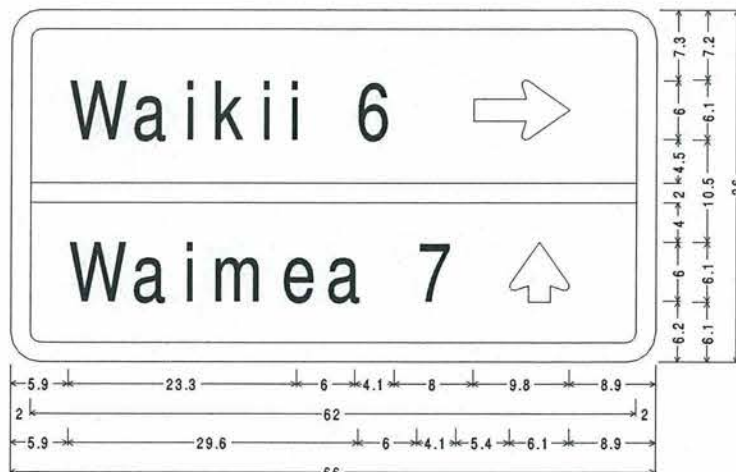
Install per item number 63301-0000 Sign System



Slow Trucks;
48.0" across sides 3.8" Radius, 0.9" Border, 0.6" Indent, Black on Yellow;
[SLOW] D; [MOVING] D; [TRUCKS] D;

SPECIAL-17

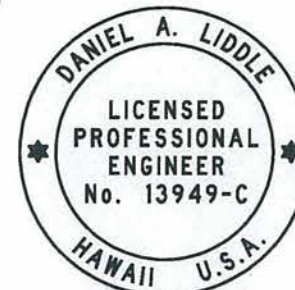
Install per item number 63301-0000 Sign System



SR Special 12; 3.0" Radius, 2.0" Border, White on Green;
[Waikii 6] D; Standard Arrow Custom 9.9" X 6.1" 0°; [Waimea 7] D;
Standard Arrow Custom 6.1" X 6.1" 90°;

SPECIAL-19

Install per item number 63301-0000 Sign System



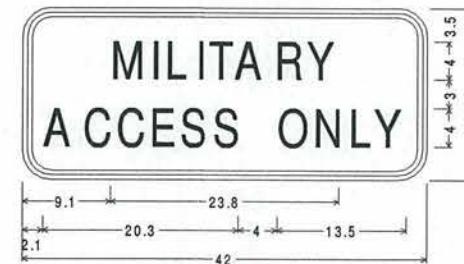
This work was prepared by me
or under my supervision

Expiration Date of License 4/30/2014

AS-BUILT DRAWINGS/SPECIFICATIONS
This certifies that the dimensions and details shown on this sheet reflect the dimensions and details and specifications as constructed in the field.

GOODFELLOW BROS., INC.
Contractor's Name:

Signature: *[Signature]* Date: 1/2/14



3.0" Radius, 0.5" Border, 0.5" Indent, Black on Yellow;
[MILITARY] D; [ACCESS ONLY] D;

SPECIAL-20

Install per item number 63301-0000 Sign System

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

U.S. CUSTOMARY SPECIAL

SADDLE ROAD SIGN DETAILS

SPECIAL
633-X