STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

ADDENDUM NO. 2

FOR

KEKAULIKE AVENUE EMERGENCY REPAIRS
AT MILE POST 8.2
DISTRICT OF MAKAWAO
ISLAND OF MAUI
FEDERAL-AID PROJECT NO. ER-25(001)

January 25, 2024

This Addendum shall make the following amendments to the Bid Documents:

A. SPECIAL PROVISIONS

Delete **SECTION 606 – GUARDRAIL** in its entirety and replace with the attached **SECTION 606 – GUARDRAIL** dated r01/25/24.

B. PROPOSAL SCHEDULE

Delete **Proposal Schedule** pages **P-8 to P-11** dated 12/12/23 and replace with the attached revised **Proposal Schedule** page **P-8 to P-11** dated r01/25/24.

C. PLANS

Delete **PLAN SHEET 9** and replace with the attached **PLAN SHEET ADD.9 r01.25.24.**

Delete **PLAN SHEET 17** and replace with the attached **PLAN SHEET ADD.17A r01.25.24.**

Add to and make a part of the **PLANS** the attached **PLAN SHEET ADD.17B r01.25.24.**

Add to and make a part of the **PLANS** the attached **PLAN SHEET ADD.17C r01.25.24.**

The following is provided for information.

D. <u>RESPONSES TO REQUEST FOR INFORMATION (QUESTIONS)</u>

The attached **RESPONSES TO REQUEST FOR INFORMATION** questions are provided for information.

Please acknowledge receipt of this **ADDENDUM NO. 2** by recording the date of its receipt in the space provided on PAGE P-4 of the Proposal.

ROBIN K. SHISHIDO
Deputy Director of Transportation for Highways

SECTION 606 – GUARDRAIL

Make the following amendment to said Section:

(I) Amend **606.04 - Measurement** by replacing lines 116 to 118 to read:

"**606.04 Measurement.** The Engineer will measure guardrail per linear foot in accordance with the contract documents.

The Engineer will measure from center to center of end treatment posts of transition section posts. If the Contractor makes end connections to masonry or steel structures, the Engineer will measure to the face of such structures (if applicable).

The Engineer will measure rigid barrier type guardrail per linear foot from end to end of the type specified.

The Engineer may measure end anchorage, terminal section and transition section:

(1) as units of each kind when specified in the proposal or

(2) include in the quantities of guardrail of the respective type and not measured separately

The Engineer will measure resetting existing guardrail per linear foot from end to end."

(II) Amend **606.05 – Payment** by revising lines 120 to 138 to read as follows:

"**606.05 Payment.** The Engineer will pay for the accepted pay items listed below at contract price per pay unit, as shown in the proposal schedule. Payment will be full compensation for the work prescribed in this section and the contract documents.

The price paid for Type Midwest Guardrail System (MGS) W-Beam shall include removal and disposal of existing guardrail and end treatments, and installation of new guardrail and end treatments, new guardrail posts, new spacer blocks, new reflective markers (RM-5) and all required mounting hardware.

The Engineer will pay for the following pay items when included in the proposal schedule:

Pay Item	Pay Unit
Guardrail Type MGS W-Beam (MASH Compliant)	Linear Foot
Type MGS Transition Section	Each
MFLT (TL-3) End Treatment	Each
Trailing End-Anchorage System	Each

END OF SECTION 606

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
201.0100	Clearing and Grubbing	L.S.	L.S.	L.S.	$_____
202.0100	Removal of Guardrail	L.S.	L.S.	L.S.	$_____
202.0200	Removal of Existing Culvert	L.S.	L.S.	L.S.	$_____
203.0100	Borrow Excavated Material	275	C.Y.	$ _____	$_____
203.0200	Roadway Excavation	330	C.Y.	$ _____	$_____
205.0100	Structure Excavation for Precast Concrete Retaining Wall	L.S.	L.S.	L.S.	$_____
206.0100	Excavation for Drainage Facilities	28	C.Y.	$ _____	$_____
206.0200	Excavation for Culvert	9	C.Y.	$ _____	$_____
209.0100	Installation, Maintenance, Monitoring, and Removal of BMP	L.S.	L.S.	L.S.	$_____
209.0200	Additional Water Pollution, Dust, and Erosion Control	F.A.	F.A.	F.A.	$ 100,000.00
301.0100	Hot Mix Asphalt Base Course	140	Ton	$ _____	$_____
304.0100	Basecourse for Culvert	9	C.Y.	$ _____	$_____
305.0100	Aggregate Subbase	240	C.Y.	$ _____	$_____
314.0100	CLSM	1,460	C.Y.	$ _____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
401.0100	Pavement Smoothness Incentive	Allowance	Allowance	Allowance	$ 10,000.00
401.0200	PMA Pavement	55	Ton	$ _____	$_____
503.0100	Concrete in Cast-In-Place Coping	20	C.Y.	$ _____	$_____
503.0200	Concrete in Cast-In-Place Guardrail Footing	17	C.Y.	$ _____	$_____
503.0300	Concrete in Cast-In-Place Culvert	10	C.Y.	$ _____	$_____
503.0400	Concrete Precast Culvert	81	C.Y.	$ _____	$_____
512.0100	MSE Wall System	L.S.	L.S.	L.S.	$_____
603.0100	18-Inch HDPE Pipe	60	L.F.	$ _____	$_____
604.0100	Type 1211214P Inlet, 5 feet to 10 feet	1	Each	$ _____	$_____
606.0100	Guardrail Type MGS W-Beam (MASH Compliant)	320	L.F.	$ _____	$_____
606.0200	Type MGS Transition Section	2	Each	$ _____	$_____
606.0300	MFLT (TL-3) End Treatment	1	Each	$ _____	$_____
606.0400	Trailing End-Anchorage System	1	Each	$ _____	$_____
612.0100	Grouted Rubble Paving	142	C.Y.	$ _____	$_____

PROPOSAL SCHEDULE					
ITEM NO.	**ITEM**	**APPROX. QUANTITY**	**UNIT**	**UNIT PRICE**	**AMOUNT**
613.0100	Centerline and Reference Survey Monuments	L.S.	L.S.	L.S.	$_____
617.0100	Imported Planting Soil, 4” Layer	13	C.Y.	$ _____	$_____
619.0100	Grass Sprigs	1,025	S.F.	$ _____	$_____
619.0200	Plant Establishment Period	9	Month	$ _____	$_____
629.0100	4-Inch White Pavement Striping (Thermoplastic)	230	L.F.	$ _____	$_____
629.0200	4-Inch Double Yellow Pavement Striping (Thermoplastic)	115	L.F.	$ _____	$_____
629.0300	Type C Pavement Marker	8	Each	$ _____	$_____
629.0400	Type D Pavement Marker	7	Each	$ _____	$_____
636.0100	E-Construction License	F.A.	F.A.	F.A.	$ 56,400.00
645.0100	Traffic Control	L.S.	L.S.	L.S.	$_____
645.0200	Additional Police Officers, Additional Traffic Control Devices, and Additional Advertisement	F.A.	F.A.	F.A.	$ 50,000.00
648.0100	Field-Posted Drawings	L.S.	L.S.	L.S.	$_____
655.0100	Dumped Riprap	271	C.Y.	$ _____	$_____
694.0100	Additional Work for Unforeseen and Differing Conditions	F.A.	F.A.	F.A.	$ 75,000.00

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
696.0100	Field Office Trailer (Not to Exceed $32,000.00)	L.S.	L.S.	L.S.	$_____
696.0200	Project Site Laboratory Trailer (Not to Exceed $22,000.00)	L.S.	L.S.	L.S.	$_____
699.0100	Mobilization (Not to exceed 6 percent of the sum of all items excluding the bid price of this item)	L.S.	L.S.	L.S.	$_____

Sum of All Items ……. $ _____

NOTE: Bidders must complete all unit prices and amounts. Failure to do so may be grounds for rejection of bid.

Questions for solicitation: B24001211

ER-25(001) Kekaulike Avenue Emergency Repairs at M.P. 8.2
January 11, 2024

RFI 7 - What type of Guardrail End Treatment is to be installed at STA 112+63.86? Please provide a bid item for the end treatment in the Proposal Schedule.

RFI 7 Response – The Trailing-End Anchorage System should be installed at Sta. 112+63.86. The end treatment detail has been added and made of part of the **PLANS,** see **PLAN SHEET ADD.17C** r01.25.24. **BID ITEM 606.0400** has been added to the **PROPOSAL SCHEDULE P-9** dated r01/25/24.

RFI 8 - **What type of Guardrail End Treatment is to be installed at STA 112+91.38? Please provide a bid item for the end treatment in the Proposal Schedule.**

RFI 8 Response – The MFLT (TL-3) End Treatment should be installed at Sta. 112+91.38, see attached detail. **BID ITEM 606.0300** has been added to the **PROPOSAL SCHEDULE P-9** dated r01/25/24.

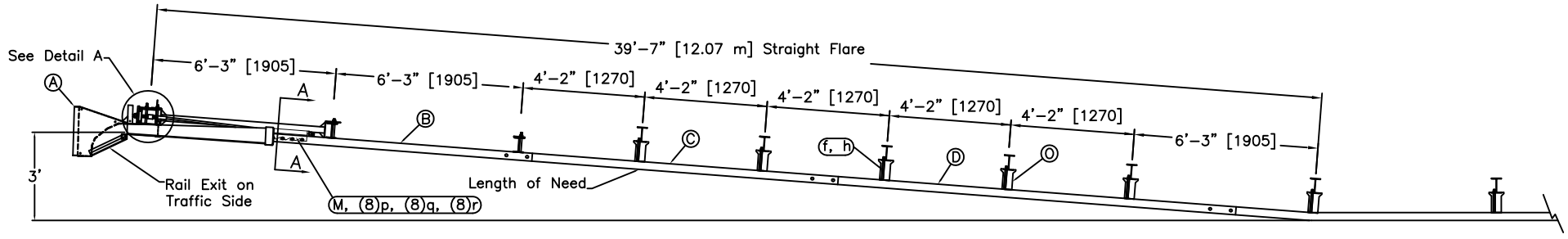
RFI 9 – Please confirm that the guardrail posts for this project will be 6 foot long.

RFI 9 Response – The Guardrail Type MGS W-Beam (MASH Compliant) posts are 6 feet in length. The Guardrail Type MGS W-Beam (MASH Compliant) detail has been added and made of part of the **PLANS,** see **PLAN SHEET ADD.17B** dated r01.25.24.

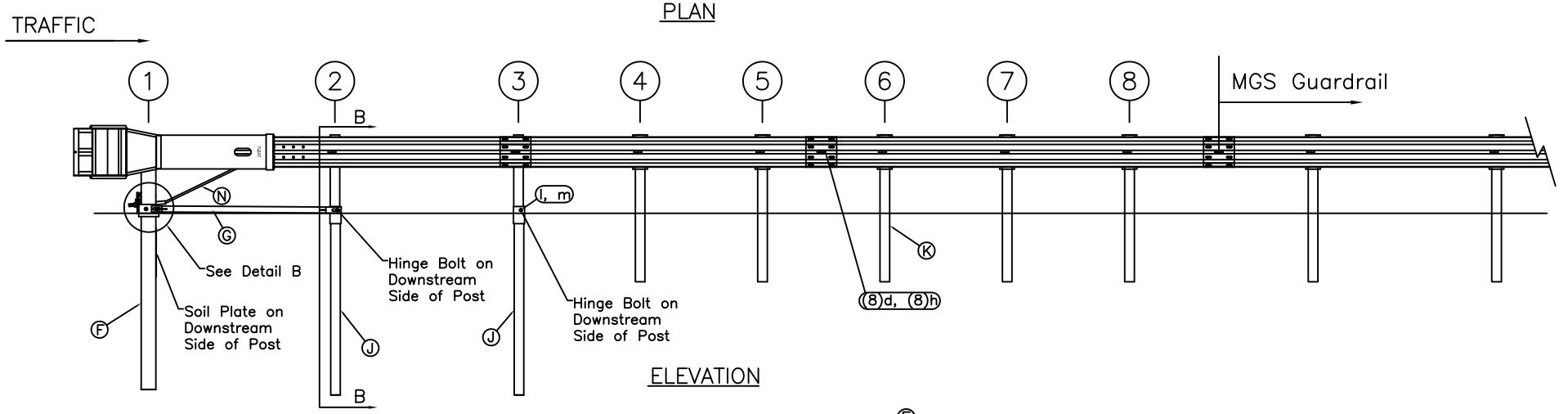
RFI 10 - **Is the guardrail to be installed to be MASH or NCHRP-350 compliant as that will affect connections to end treatments selected?**

RFI 10 Response - The Guardrail Type MGS W-Beam (MASH Compliant) details have been added and made of part of the **PLANS,** see **PLAN SHEET ADD.17A** r01.25.24 and **PLAN SHEET ADD.17B** r01.25.24. The connection of new guardrail to the existing guardrail shall be constructed per the details on **PLAN SHEET 18. BID ITEM 606.0200** has been added to the **PROPOSAL SCHEDULE P-9** dated r01/25/24.

END OF RFI RESPONSES

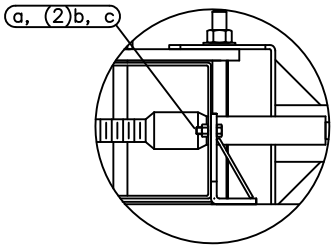


PLAN

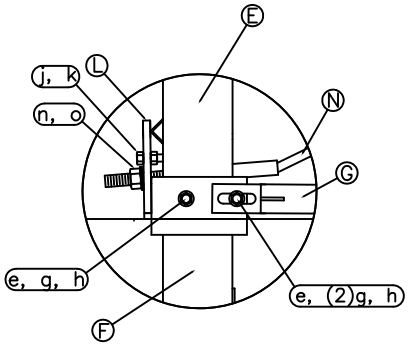


ELEVATION

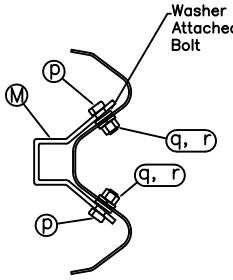
ITEM	QTY	BILL OF MATERIALS	ITEM NO.
A	1	FLEAT IMPACT HEAD	MF3000
B	1	FLEAT ANCHOR RAIL 12'–6"	SF1303
C	1	FLEAT SECOND RAIL 10'–5"	F1324
D	1	FLEAT THIRD RAIL 13'–6 1/2"	F1334
E	1	FIRST POST TOP (6X6X⅜" Tube)	MP1A
F	1	FIRST POST BOTTOM (6' W6X15)	MP1B
G	1	GROUND STRUT	MS785
H	2	HINGE POST UPPER	MHP2A
J	2	HINGED POST LOWER	HP2B
K	5	STEEL LINE POST 6'	P621
L	1	MASH BEARING PLATE	ME750
M	1	CABLE ANCHOR BOX	S760
N	1	BCT CABLE ANCHOR ASSEMBLY	E770
O	5	RECYCLED PLASTIC BLOCK OR EQUIV.	CBSP–14
		HARDWARE (ALL DIMENSIONS IN INCHES)	
a	2	5/16 x 1 HEX BOLT GRD 5	B5160104A
b	4	5/16 WASHER	W0516
c	2	5/16 HEX NUT	N0516
d	18	5/8 x 1 1/4 SPLICE BOLT	B580122
e	2	5/8 x 9 HEX BOLT GRD 5	B580904A
f	5	5/8 x 10 H.G.R. BOLT	B581002
g	3	5/8 WASHER	W050
h	25	5/8 H.G.R NUT	N050
j	1	5/8 x 5" BOLT FULL THREAD GRD A449	B580504A
k	1	5/8 HEX NUT	N055
l	2	3/4 x 8 1/2 HEX BOLT GRD A449	B340854A
m	2	3/4 HEX NUT	N030
n	2	1 ANCHOR CABLE HEX NUT	N100
o	2	1 ANCHOR CABLE WASHER	W100
p	8	1/2 RSI SHOULDER BOLT W/WASHER	SB12A
q	8	1/2 STRUCTURAL NUT	N012A
r	8	1/2 STRUCTURAL WASHER	W012A



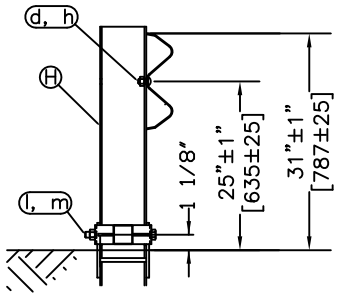
Detail A
Impact Head Connection



Detail B
Post #1 Connection



SECTION A–A
Anchor Bracket



SECTION B–B
Post #2

GENERAL NOTES:

1. All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
2. The lower sections of the Posts 1, 2 & 3 shall not protrude more than 4 in above the ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
3. The lower sections of the hinged posts should not be driven with the upper post attached. If the post is placed in a drilled hole, the backfill material must be satisfactorily compacted to prevent settlement.
4. When competent rock is encountered, a 12" Ø post hole, 20 in. deep cored into the rock surface may be used if approved by the engineer for Posts 1 and/or 2. Granular material will be placed in the bottom of the hole, approximately 2.5" deep to provide drainage. The first and/or second post can be field cut to length, placed in the hole and backfilled with suitable backfill. The soil plate may be trimmed if required.
5. The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.

RSI
Road Systems, Inc.
Big Spring, TX
Phone: 432-263-2435
or Phone: 330-346-0721

MASH FLEAT Terminal
TL-3 Standard Post System

Drawing Name:	Scale:
MFLT	None

Sheet: 1
Date: 04/10/19
By: JRR
Rev: 0