STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 1

FOR

FARRINGTON HIGHWAY RESURFACING
VICINITY OF KILI DRIVE TO SATELLITE TRACKING STATION ROAD
FEDERAL AID PROJECT NO. STP-093-1(026)
DISTRICT OF WAIANAE
ISLAND OF OAHU
FY 2016

The following amendments shall be made to the Bid Documents:

A. SPECIAL PROVISIONS

1. Replace Table of Contents pages 1 to 3 dated 5/4/16 with the attached Table of Contents pages 1 to 3 dated r6/2/16.

2. Replace Section 203 page 203-1a dated 4/21/06 with the attached Section 203 page 203-1a dated r6/2/16.

3. Include new Section 304 – Aggregate Base Course, attached page 304-1a dated 6/2/16, in Special Provisions.

4. Replace Section 606 pages 606-1a to 606-2a dated 10/20/15 with the attached Section 606 pages 606-1a to 606-3a dated r6/2/16.

B. PROPOSAL SCHEDULE

1. Replace Proposal Schedule pages P-8 to P-14 dated 4/29/16 with the attached Proposal Schedule pages P-8 to P-15 dated r6/2/16.

C. PLANS

1. Replace Plan Sheets No. 6, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 31, 32, 35, 42, 43, 87 and 88 with the attached Plan Sheets No. ADD. 6, ADD 10, ADD. 11, ADD. 12, ADD. 13, ADD. 14, ADD. 15, ADD. 16, ADD. 17, ADD. 18, ADD. 19, ADD. 20, ADD. 21, ADD. 31, ADD. 32, ADD. 35, ADD. 42, ADD. 43, ADD. 87 and ADD. 88.

2. Include new attached Plan Sheet No. ADD. 17S-1.

D. PRE-BID MEETING MINUTES

Pre-bid Meeting Minutes and meeting attendance sheet are attached for your information.

E. ANSWERS TO QUESTIONS FROM PROSPECTIVE BIDDER

Attached are the Pre-bid RFI's and responses for your information.

Please acknowledge receipt of this Addendum No. 1 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

FORD N. FUCHIGAMI
Director of Transportation

TABLE OF CONTENTS

DIVISION 400 - PAVEMENTS		
Section	**Description**	**Pages**
401	Hot Mix Asphalt Pavement	401-1a – 401-4a
415	Cold Planing of Existing Pavement	415-1a
416	Paving Grid	416-1a – 416-4a

DIVISION 500 - STRUCTURES		
Section	**Description**	**Pages**
507	Railings	507-1a – 507-2a

DIVISION 600 - INCIDENTAL CONSTRUCTION		
Section	**Description**	**Pages**
606	Guardrail	606-1a – 606-3a
615	Milled Rumble Strip	615-1a – 615-2a
619	Planting	619-1a – 619-13a
627	Endangered Species	627-1a – 627-2a
629	Pavement Markings	629-1a – 629-3a
630	Traffic Control Guide Sign	630-1a
631	Traffic Control Regulatory, Warning, and Miscellaneous Signs	631-1a
641	Hydro-Mulch	641-1a – 641-3a
694	Longitudinal Channelizing Curb System	694-1a – 694-2a
699	Mobilization	699-1a

DIVISION 700 - MATERIALS		
Section	**Description**	**Pages**
702	Bituminous Materials	702-1a
750	Traffic Control Sign and Marker Materials	750-1a – 750-2a
755	Pavement Marking Materials	755-1a

Requirement of Chapter 104, HRS
Wages and Hours of Employees on Public Works Law

Federal Wage Rates

Proposal Title Page

Proposal ..... P-1 – P-7
Proposal Schedule ..... P-8 – P-15

END OF TABLE OF CONTENTS

SECTION 203 – EXCAVATION AND EMBANKMENT

Make the following amendment to said Section:

(I) Amend **203.03(C)(2)(a) – Maximum Dry Unit Weight** from line 245 to line 255 to read as follows:

> "**(a) Maximum Dry Unit Weight.** Test for maximum dry unit weight according to AASHTO T 180, and apply the correction for fraction larger than 3/4 inch. Use Hawaii Test Method HDOT TM 5 for sample preparation of sensitive soils when so designated by the Engineer."

(II) Amend **Subsection 203.04 Measurement** by adding the following after line 366:

> "**(D)** The Engineer will measure probing of underground utilities for road stabilization, if ordered by the Engineer, on a force account basis, in accordance with Subsection 109.06 – Force Account Provisions and Compensation."

(III) Amend **Subsection 203.05 Payment** by adding the following after line 428:

"Probing of Underground Utilities for Road Stabilization
(Station 1292+85± Lt. to 1294+35± Lt.) Lump Sum"

END OF SECTION 203

SECTION 304 – AGGREGATE BASE COURSE

Make the following amendments to said Section:

(I) Amend **Subsection 304.04** **Measurement** to read as follows:

"**304.04 Measurement.** The Engineer will measure aggregate base per cubic yard in accordance with the contract documents."

(II) Amend **Subsection 304.05** **Payment** to read as follows:

"**304.05 Payment.** The Engineer will pay for the accepted aggregate base at the contract unit price per cubic yard. Payment will be full compensation for the work prescribed in this section and the contract documents.

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

Pay Item	**Pay Unit**
Aggregate Base	Cubic Yard"

END OF SECTION 304

SECTION 606 – GUARDRAIL

Make the following amendments to said Sections:

(I) Amend **Section 606.01 Description** to read as follows:

"**606.01 Description.** This section describes furnishing and installing guardrails and transitions, including demolition, assembly and erection of component parts, designated as follows: Type 3- Thrie Beam Type Guardrail; Type 4- Rigid Barrier Type Guardrail."

(II) Amend **Section 606.02 Materials** by adding the following:

"**Adhesive Anchors.** Adhesive anchors shall develop 125 percent of the yield strength in tension of the reinforcement bar as conducted in accordance with ASTM E 1512. Epoxy shall conform to ASTM C881, Type IV, Grade 1 Class C. The adhesive shall be supplied in an injectable, dual cartridge dispenser with a self-mixing nozzle. Adhesive supplied in separate containers that require external mixing will not be accepted. The application and use of the adhesive shall be according to the manufacturer's specifications and recommendations. The Contractor shall submit copies of the manufacturer's specifications, recommendations, brochures and certified test reports prepared by an independent laboratory to the Engineer for acceptance three weeks before its use. The anchors shall be threaded rods conforming to ASTM A449."

(III) Amend **Section 606.03(B) Rigid Barrier Type Guardrail** by adding the following:

"**(7) Adhesive Anchors.** Before starting, locate all existing rebar in area to be drilled. Dowel the reinforcing bars or threaded studs into the concrete as specified in the contract documents and as specified by the adhesive Manufacturer. Use a rotary impact drill to drill the correct hole diameter as specified by the Manufacturer. If a reinforcing bar or obstruction is encountered during drilling, move the hole to a different location. If the obstruction encountered cannot be avoided, the Contractor may drill through the obstruction if it is acceptable to the Engineer. Fill abandoned holes with grout. Unless specified in the contract documents, the minimum depth of embedment shall be a depth specified by the manufacturer to develop 125 percent of the yield strength in tension. Remove all loose dust and concrete particles from the hole and prepare adhesive and install anchors in accordance with the Manufacturer specification. Remove and replace improperly installed embedded anchors at no increase in contract price or contract time. Debris and waste material shall be disposed of at a disposal site accepted by the Engineer."

(IV) Amend **606.04 Measurement,** from line 116 to 118 to read as follows:

"**606.04 Measurement**. Guardrail, 10' guardrail posts, terminal section, guardrail at culvert, guardrail type 4, guardrail type 3, and state furnished portable concrete barrier will be paid on a lump sum basis. Measurement for payment will not apply.

Portable Barrier End Treatment for the State Furnished Portable Concrete Barrier shall not be measured for payment and shall be considered incidental to the State Furnished Portable Concrete Barrier.

The Engineer will not pay separately for transporting, installing, maintaining, relocating, and subsequently removing the state furnished portable concrete barrier and portable barrier end treatment. The price includes full compensation for preparing bins, maintaining reflector markers, and lamps; transporting portable concrete barriers from stockpile location to the project site; cleaning and hauling the state furnished portable concrete barriers and portable barrier end treatments after completion of the project as directed by the Engineer; and furnishing labor, materials, tools, equipment and incidentals necessary to complete the work."

(VI) Amend **Subsection 606.05 Payment** after line 123 to read as follows:

"All concrete, reinforcing steel, structural excavation, backfill, demolition and replacement of existing sidewalk shall not be paid for separately, and shall be considered incidental to other contract items.

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

Pay Item	**Pay Unit**
Guardrail Type _____	Lump Sum
10' Guardrail Posts - Strong Post W-Beam Guardrail	Lump Sum
Terminal Section Type _____	Lump Sum
Guardrail at Culvert Station 1297+65	Lump Sum
Guardrail at Culvert Station 1243+08	Lump Sum
Headwall at Culvert Station 1227+41	Lump Sum
Guardrail at Culvert Station 1216+09	Lump Sum

Guardrail Type 4 -Endpost Upgrade Makaha Bridge #3B (Waikomo)	Lump Sum
Guardrail Type 4 -Endpost Upgrade Makaha Bridge #4 (Keaau)	Lump Sum
Guardrail Type 4 -Endpost Upgrade Makaha Bridge #5 (Na Ohikilolo)	Lump Sum
Guardrail Type 4 -Endpost Upgrade Makaha Bridge #5A (Ohikilolo)	Lump Sum
Guardrail Type 4 -Wall Upgrade Makaha Bridge #4 (Keaau)	Lump Sum
Guardrail Type 3-Thrie Beam Transition	Lump Sum
State Furnished Portable Concrete Barrier	Lump Sum"

END OF SECTION 606

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
202.0100	Removal of Existing Embankment	L.S.	L.S.	L.S.	$_____
202.0200	Removal of Existing Concrete Piles (Sta. 1138+00± Rt. to Sta. 1138+15± Rt.)	L.S.	L.S.	L.S.	$_____
203.0100	Roadway Excavation	7,030	C.Y.	$_____	$_____
203.0200	Borrow Excavated Material	2,090	C.Y.	$_____	$_____
203.0300	Probing of Underground Utilities for Road Stabilization (Sta. 1292+85± Lt. to Sta. 1294+35± Lt.)	F.A.	F.A.	F.A.	$ 50,000.00
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.	$ 125,000.00
212.0100	Archaeological Monitoring	F.A.	F.A.	F.A.	$ 70,000.00
212.0200	Blessing Ceremony	F.A.	F.A.	F.A.	$ 10,000.00
301.1000	Hot Mix Asphalt Base Course	45	TONS	$_____	$_____
304.1000	Aggregate Base	3,925	C.Y.	$_____	$_____
315.1000	Non-Woven Geotextile Fabric (Shoulder Widening)	12,470	S.Y.	$_____	$_____
315.2000	Non-Woven Geotextile Fabric (Stabilization)	1,235	S.Y.	$_____	$_____
401.0100	HMA Pavement, Mix No. IV	15,500	TON	$_____	$_____
401.0110	HMA Pavement, Mix No. IV under Guardrail	360	TON	$_____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
401.0200	HMA Pavement, Mix No. V, Leveling Course	970	TON	$_____	$_____
414.0100	Excavation of Weakened Pavement Areas	200	C.Y.	$_____	$_____
415.1000	Cold Planing of Existing Pavement	L.S.	L.S.	L.S.	$_____
416.1000	Paving Grid	13,520	S.Y.	$_____	$_____
507.1000	Pedestrian Rails on Makaha Bridge #3B (Waikomo)	L.S.	L.S.	L.S.	$_____
507.2000	Pedestrian Rails on Makaha Bridge #4 (Keaau)	L.S.	L.S.	L.S.	$_____
507.3000	Pedestrian Rails on Makaha Bridge #5 (Na Ohikilolo)	L.S.	L.S.	L.S.	$_____
507.4000	Pedestrian Rails on Makaha Bridge #5A (Ohikilolo)	L.S.	L.S.	L.S.	$_____
604.4300	Adjusting BWS Water Manhole Frame and Cover	3	EACH	$_____	$_____
604.4400	Adjusting BWS Water Valve Box Frame and Cover	21	EACH	$_____	$_____
604.4500	Adjusting Hawaiian Telcom Pullbox Frame and Cover	14	EACH	$_____	$_____
604.4600	Adjusting AT&T Manhole Frame and Cover	4	EACH	$_____	$_____
604.4610	Adjusting AT&T Manhole Frame and Cover (Beyond Shoulder)	1	EACH	$_____	$_____
604.4700	Adjusting Army Water Manhole Frame and Cover	1	EACH	$_____	$_____
604.4800	Adjusting Army Water Valve Box Frame and Cover	6	EACH	$_____	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
606.0100	Guardrail Type Strong Post W-Beam	L.S.	L.S.	L.S.	$_____
606.0200	Guardrail Type Strong Post W-Beam with 8' Post	L.S.	L.S.	L.S.	$_____
606.0300	10' Guardrail Posts - Strong Post W-Beam Guardrail	L.S.	L.S.	L.S.	$_____
606.0400	Terminal Section Type Fleat 350	L.S.	L.S.	L.S.	$_____
606.0500	Terminal Section Type SKT-350	L.S.	L.S.	L.S.	$_____
606.0600	Terminal Section Modified Type "A-1"	L.S.	L.S.	L.S.	$_____
606.0700	Terminal Section Type "G"	L.S.	L.S.	L.S.	$_____
606.1000	Guardrail at Culvert Station 1297+65	L.S.	L.S.	L.S.	$_____
606.2000	Guardrail at Culvert Station 1243+08	L.S.	L.S.	L.S.	$_____
606.3000	Headwall at Culvert Station 1227+41	L.S.	L.S.	L.S.	$_____
606.4000	Guardrail at Culvert Station 1216+09	L.S.	L.S.	L.S.	$_____
606.5100	Guardrail Type 4 - Endpost Upgrade Makaha Bridge #3B (Waikomo)	L.S.	L.S.	L.S.	$_____
606.5200	Guardrail Type 4 - Makaha Bridge #4 (Keaau)	L.S.	L.S.	L.S.	$_____
606.5300	Guardrail Type 4 - Endpost Upgrade Makaha Bridge #5 (Na Ohikilolo)	L.S.	L.S.	L.S.	$_____
606.5400	Guardrail Type 4 - Endpost Upgrade Makaha Bridge #5A (Ohikilolo)	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
606.6000	Guardrail Type 4 - Wall Upgrade Makaha Bridge #4 (Keaau)	L.S.	L.S.	L.S.	$
606.7000	Guardrail Type 3 - Thrie Beam Transition	L.S.	L.S.	L.S.	$
606.8000	State Furnished Portable Concrete Barrier	L.S.	L.S.	L.S.	$
615.0110	16-Inch Milled Rumble Strip, Centerline	L.S.	L.S.	L.S.	$
615.0300	6-Inch Milled Rumble Strip, Shoulder	L.S.	L.S.	L.S.	$
618.0100	Modular Rubber Speed Hump	L.S.	L.S.	L.S.	$
619.0100	Common Bermuda Grass - Cynodon dactylon	L.S.	L.S.	L.S.	$
619.0200	'Aki'aki grass - Sporobolus virginicus	L.S.	L.S.	L.S.	$
619.0300	'Ilima papa - Sida fallax	L.S.	L.S.	L.S.	$
627.0100	Endangered Species	F.A.	F.A.	F.A.	$ 15,000.00
628.1000	Shotcrete for Road Stabilization	L.S.	L.S.	L.S.	$
629.1011	Double 4-Inch Pavement Striping (Thermoplastic Hot Spray)	L.S.	L.S.	L.S.	$
629.1013	4-Inch Pavement Striping (Thermoplastic Hot Spray)	L.S.	L.S.	L.S.	$
629.1016	8-Inch Pavement Striping (Thermoplastic Hot Spray)	L.S.	L.S.	L.S.	$
629.1022	12-Inch Pavement Striping (Tape, Type III or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
629.1024	24-Inch Pavement Striping (Tape, Type III or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1030	Crosswalk Marking (Tape, Type III or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1050	Pavement Word (Tape, Type III or Thermoplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.1060	Pavement Symbol (Speed Hump Advance Warning Markings) (Tape, Type III or Thermalplastic Extrusion)	L.S.	L.S.	L.S.	$_____
629.2020	Type "C" Pavement Markers	L.S.	L.S.	L.S.	$_____
629.2030	Type "D" Pavement Markers	L.S.	L.S.	L.S.	$_____
629.2070	Type "H" Pavement Markers	L.S.	L.S.	L.S.	$_____
629.2080	Type "J" Pavement Markers	L.S.	L.S.	L.S.	$_____
631.5000	Regulatory Sign (10 Square Feet or Less)	L.S.	L.S.	L.S.	$_____
631.5001	Regulatory Sign (10 Square Feet or Less) with Post(s)	L.S.	L.S.	L.S.	$_____
631.5003	Regulatory Sign (More than 10 Square Feet) with Post(s)	L.S.	L.S.	L.S.	$_____
631.5100	Warning Sign (10 Square Feet or Less)	L.S.	L.S.	L.S.	$_____
631.5101	Warning Sign (10 Square Feet or Less) with Post(s)	L.S.	L.S.	L.S.	$_____
631.5103	Warning Sign (More than 10 Square Feet) with Post(s)	L.S.	L.S.	L.S.	$_____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
631.5400	Directional Sign (10 Square Feet or Less)	L.S.	L.S.	L.S.	$
631.5500	Directional Sign (10 Square Feet or Less) with Post(s)	L.S.	L.S.	L.S.	$
632.0100	Type 3 Object Marker with Post(s)	L.S.	L.S.	L.S.	$
632.0200	Mile Post Marker and Route Number Plate with Post (Bi-Directional)	L.S	L.S	L.S.	$
632.0300	Reflector Marker (RM-2, White) with Flexible Delineator Post	L.S.	L.S.	L.S.	$
641.0100	Hydro-mulch cap	L.S.	L.S.	L.S.	$
643.0100	Maintenance of Existing Landscape Areas	F.A.	F.A.	F.A.	$ 9,000.00
645.0100	Traffic Control	L.S.	L.S.	L.S.	$
645.0200	Additional Police Officers, Additional Traffic Control Devices, and Advertisement	F.A.	F.A.	F.A.	$ 240,000.00
648.0100	Field-Posted Drawings	L.S.	L.S.	L.S.	$
694.0100	Longitudinal Channelizing Curb System	L.S.	L.S.	L.S.	$
696.1000	Maintenance of Trailers	F.A.	F.A.	F.A.	$ 50,000.00
699.1000	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.	$

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
	a. SUM OF ALL ITEMS				$_____
	b. Either Furnish Foreign Steel Not to Exceed Minimal Amount (Fill in '0') Furnish Foreign Steel in Excess of Minimal Amount (Fill in 25% X a)				$_____
	c. Amount for Comparison of Bids (a+b)				$_____

All bidders must fill in b and complete c.

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

PROPOSAL SCHEDULE

The bidder is directed to Subsection 105.16 – Subcontracts.

The bidder's attention is directed to Sections 696 - Field Office and Project Site Laboratory and 699 - Mobilization for the limitation of the amount bidders are allowed to bid.

If the bid price for any proposal item having a maximum allowable bid indicated therefore in any of the contract documents is in excess of such a maximum amount, the bid price for such proposal item shall be adjusted to reflect the limitation thereon. The comparison of bids to determine the successful bidder and the amount of contract to be awarded shall be determined after such adjustments are made, and such adjustments shall be binding upon the bidder.

The bidder is directed to Section 717 – Cullet and Cullet-Made Materials regarding recycling of waste glass.

INSTRUCTIONS TO COMPUTE THE AMOUNT FOR COMPARISON OF BIDS FOR FOREIGN STEEL

Each bidder shall indicate its intention to furnish foreign steel on this project by initialing after the AMOUNT for each of the items the bidder intends to use such foreign steel including lump sum items. A bidder not indicating such usage certifies that the bidder will furnish and use only domestic steel on this project. Also, the bidder shall add an additional 25% to the SUM OF ALL ITEMS if the bid submitted is based on furnishing foreign steel in excess of the minimal use specified in Subsection 106.11 - Steel and Iron Construction Material.

PRE-BID MEETING MINUTES

Subject: Farrington Highway Resurfacing, Vicinity of Kili Drive to Satellite Tracking Station Road
Federal Aid Project No. STP-093-1(026)

Location: HDOT HWY-DB conference room, Kapolei

Date: May 25, 2016, 9:30 a.m.

Attendees: See attached list of attendees.

A. Sign-in sheet circulated. Meeting was called to order at about 9:40 a.m.

B. Reminder: The Confirmation of DBE forms are due within 5 days after bid opening (see page 3 of the DBE Requirements).

C. Meeting was adjourned at about 10:00 a.m.

HDOT HIGHWAYS DIVISION

MEETING ATTENDANCE

SUBJECT: Pre-Bid Meeting for Farrington Highway Resurfacing, Vicinity of Kili Drive to Satellite Tracking Station Road

PROJECT NO.: STP-093-1(026)

DATE, TIME & PLACE: May 25, 2016; 9:30am; HWY-DB Conference Room

NAME	OFFICE/COMPANY	TELEPHONE	E-MAIL
Kevin Yamabayashi	Grace Pacific	292-6781	kyamabayashi@gracepacific.com
Julienne Fronda	HWY-DOT-TD	692-8476	julienne.f.fronda@hawaii.gov
PETER CHAN	HWY-TD	692-7680	PETER.CHAN@HAWAII.GOV
Li Nah Okita	Hwy-DD	692-7581	li.nah.okita@hawaii.gov
Jillian Chen	HWY-DD	692-8439	jillian.mchen@hawaii.gov

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

Project: **Farrington Highway Resurfacing**
Vicinity of Kili Drive to Satellite Tracking Station Road
Federal-Aid Project No. STP-093-1(026)

Prospective Bidder, Grace Pacific, had emailed a list of questions. Questions and responses are as follows:

1. Sheet 31 approximate Sta. 1023+20 shows a Power Pole within the new widened shoulder. What is the State's intent for this pole? Please advise.

   Response: **The power pole is to remain. The "Paved Area Beyond Shoulder" will be deleted. See revised plan sheet no. ADD. 31 for clarification.**

2. Sheet 31 shows reconstruct existing Bus Turnout Sta. 1030+67.00 Lt. to Sta. 1033+14.00 Lt. Should this be located on the Right side?

   Response: **Yes, the note should say "Rt." instead of "Lt." See revised plan sheet no. ADD. 31 for clarification.**

3. Sheet 21 shows two details, one labeled "A.C. Resurfacing at Paved Driveway Detail Sta. 1030+67 to Sta. 1051+70" and another labeled "A.C. Resurfacing at Paved Sideroad Detail Sta. 1030+67 to Sta. 1051+70." Please clarify the intent of the two details.

   Response: **"AC Resurfacing at Paved Driveway Detail Sta. 1030+67 to Sta. 1051+70" shall be referred to when paving driveways, and "AC Resurfacing at Paved Side road Detail Sta. 1030+67 to Sta. 1051+70" shall be referred to when paving side roads. Both details have been revised. See revised plan sheet no. ADD. 21 for clarification.**

4. Please clarify the limits of road excavation on plan sheets 10-21.

   Response: **Limits of excavation have been clarified on the plans. See revised plan sheets no. ADD. 11, 12, 13, 16, 17, 18, 19, and 20 for clarification.**

5. Do the driveways at Station 1028+50 Rt. and Station 1030+00 Rt. follow the "Typical AC Resurfacing at Paved Driveway / Sideroad Detail" on sheet 21 which would be Cold plane 4", 1" leveling course, Paving Grid, Pave 3" State IV, or would it be Cold Plane 6" and Pave two 3" layers with Paving grid for New shoulder? Please clarify.

Response: **Yes, the driveways at Station 1028+50 Rt. and Station 1030+00 Rt. follow the "Typical AC Resurfacing at Paved Driveway / Sideroad Detail" on sheet 21 which refers to the Typical Section on plan sheet no. 10. The driveway pavement section would then follow the pavement section for the New Shoulder.**

6. The roadway section before Station 1030+17 includes paving grid and the roadway section after 1030+67 includes paving grid. Please clarify if the Longitudinal Transition from Station 1030+17 to 1030+67 (Detail sheet 11) will include paving fabric.

Response: **Yes, the Longitudinal Transition from Station 1030+17 to 1030+67 will include paving fabric. The detail has been revised for clarification. See revised plan sheet no. ADD. 11 for clarification.**

7. The Roadway section next to the bus turnout at station 1030+67 Rt. to 1032+70.5 Rt. includes paving grid however the bus turnout detail on sheet 11 does not. Please verify.

Response: **The "Partial Section at Bus Turnout" detail on plan sheet no. 11 has been revised to show paving grid at the bus turnout as well. See revised plan sheet no. ADD. 11 for clarification.**

8. Sheet 11 Typical Section Station 1030+67 to Station 1036+46.81 right side shows the pavement to extend beyond the existing pavement. As shown, the scope of work includes cold planing 2.75 inches, paving a 1 inch leveling, installing paving grid, and paving 2.25 inches State IV. Does the State intend on paving on the existing subgrade or will aggregate base course be required. Note, the aggregate base course is a lump sum bid item. If the existing grade is lower than 3.25 inches, what will be used to make up the difference?

Response: **It is the intent to pave on the existing subgrade. No aggregate base course is required. If the existing grade is lower than 3.25 inches, more leveling course should be paved to make up the difference.**

9. According to the typical sections on sheet 12 and sheet 13, the horizontal limits of the shoulder widening extends from 1 foot inside of the existing shoulder and continues to the edge of the NEW shoulder. According to the roadway plans, there are locations where the edge of existing shoulder coincides with the edge of new shoulder. In these locations, will the contractor still be required to excavate the 1 foot notch and install base course in the existing pavement structure? What if the distance between the existing edge of shoulder is only 4 inches from the New edge of shoulder, then would the contractor have to excavate 16 inches wide?

Response: **Shoulder widening details have been revised for clarity. If the New Shoulder is being widened greater than 12 inches from the existing shoulder, use "Shoulder Widening Detail." Otherwise if the widening**

is less than or equal to 12 inches, use the same pavement section as the travel lanes and existing shoulder. See revised plan sheets no. ADD. 12, ADD. 13, ADD. 14, and ADD. 15 for clarification.

10. Note 3 on sheets 10 and 11 mention macadam. Are there any boring information to show the exact depth of the macadam?

Response: **We do not have anything definitive on the exact depth to the macadam layer. However, according to as-built plans, we believe the macadam is located about 4 inches below grade from Sta. 1021+00 to 1031+00± and located about 2.5 to 3.5 inches below grade from Sta. 1031+00± onwards.**

11. What is the intent of the shoulder widening from Station 1120+00 to station 1121+50 Lt. where the plan shows broken ac beyond the existing edge of shoulder and the new edge of shoulder coincides with the existing edge of shoulder. By following the shoulder widening detail on sheet 14, the work would be to install the shoulder widening detail only 1 foot wide in the existing pavement section? Please clarify.

Response: **See response to question #9.**

12. Sheet 14 Shoulder Widening Detail "A" shows 2.5 inches State IV which is different than the shoulder widening detail "A" on sheet 13 and different than the shoulder widening detail "A" on sheet 12. Since the detail on sheet 14 shows 2.5 inches and the rest of the roadway is 1.5 inches, does the State intend on having the 2.5 inches section paved as a separate operation for this 3+ mile section? Or will the State allow the bottom 1 inch to be paved with a State Mix V paid under the leveling item? Please clarify.

Response: **See revised plan sheets no. ADD. 14 and ADD. 15 for clarification.**

13. Sheet 17 road stabilization shows the excavation extending approximately 4 feet into the travel lane. Does the State intend on adding a bid item for barriers to protect the traffic from this deep excavation?

Response: **A bid item has been added for the barriers. See revised Special Provisions Section 606, revised Proposal Schedule, revised plan sheet no. ADD. 17, and new plan sheet no. ADD. 17S-1 for clarification.**

14. Sheet 35 approximate station 1119+10 Rt., the "es" arrow is pointing to the same arrow as the "ep" arrow. Is this correct?

Response: **It is incorrect. See revised plan sheet no. ADD. 35 for clarification.**

15. Sheet 40 from about station 1213+25 Rt. to station 1228+75 Rt., the New "ES" disappears however according to typical section on sheet 14, there may be a shoulder widening in this area. Please clarify if there is shoulder widening in this area.

Response: **A note has been added to clarify to see the Roadway Plans for the limits of shoulder widening. See revised plan sheet no. ADD. 14 for clarification.**

16. Sheet 15 Partial section station 1137+99.70 to station 1138+14.70 has a note to remove concrete piles and fill holes with CLSM. How deep are the concrete piles, and which bid item does this get paid for?

Response: **The depth of the concrete piles is not known. The intent to remove the piles is so the piles do not interfere with the placement of the new guardrail posts. It is not necessary for the entire pile to be removed, as long as it is removed to the depth that the guardrail posts needs to be driven.**

17. There is a significant amount of area which will require removing and paving 1.5 inches under the guardrails. This type of work is SIGNIFICANTLY different than roadway work. Could the State include a unit priced item to pave under the guardrails?

Response: **A new pay item was created for the paving under the guardrails. See revised Proposal Schedule.**

18. Sheet 14 note 7 says "Omit planting grass in the following areas with existing A.C. or that lack existing grass". Does this mean that the State wants to Omit grassing areas that lack grass or existing ac? Please clarify the locations where grass is required.

Response: **The note was revised. See revised plan sheet no. ADD. 14 for clarification.**

19. Sheet 42, Sta. 1266+28 to Sta. 1266+73 –"Reconstruct Existing Weakened Pavement Areas. For Details, See Plan Sheet No. 20." Should this be Sheet No. 21? Plan sheet 43 also refers to sheet 20.

Response: **The note should be referring to plan sheet no. 21 instead of 20. See revised plan sheet no. ADD. 42 and ADD. 43 for clarification.**