STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

ADDENDUM NO. 2

FOR

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
FEDERAL-AID PROJECT NO. BR-019-2(38)
DISTRICT OF HAMAKUA
ISLAND OF HAWAII

2002

Amend the Bid Documents as follows:

1. SPECIAL PROVISIONS

   a. Replace page 206-8a dated 11/21/00 with the attached page 206-8a dated r7/09/02.

2. PROPOSAL SCHEDULE

   a. Replace pages P-8 dated r2/19/02 and P-10 dated r6/28/02 with the attached pages P-8 and P-10 dated r7/09/02, respectively.

3. PLANS

   a. Replace the Typical Sections, Plan, Cross Sections and Earthwork Quantities on Plan Sheet Nos. 6, 7, 12, ADD. 17, and 18 with the corresponding Typical Sections, Plan, Cross Sections and Earthwork Quantities attached.

   b. Delete Plan Sheet No. 21.

   c. On Plan Sheet No. 35, add the following note:

      "The Contractor may propose an alternate portable traffic signal system acceptable to the Resident Engineer at no additional cost to the State. The traffic signal shall become the property of the Contractor after construction."

   d. Replace Note 4A on Plan Sheet No. 45 with the following:

"All concrete shall be 4,000 psi (at 28 days) minimum, unless otherwise noted. The maximum W/C ratio shall be 0.49."

e. Add the following note on Plan Sheet Nos. 54 and 57, Sections 1/S-11 and 1/S-14, respectively:

"All areas where the existing grade is below the new abutment footing shall be filled with structural backfill to the bottom of the new abutment footing. The cost shall be considered incidental to the cost of concrete in abutment footings."

f. Add the following note on Plan Sheet No. 57, A/S-14 Abutment No. 2 Foundation Plan, and 1/S-14 Abutment No. 2 Section:

"In order to construct the center drilled shaft located on the backside of the abutment no. 2 footing at the center of the roadway, the existing tie beam that extends from the existing arch footing to the midheight of the existing pier no. 17 may be removed. However, prior to removal of the tie beam, the midheight of the existing pier no. 17 shall be temporarily braced in the longitudinal direction by some other means. Design of the temporary brace shall be prepared by a professional engineer licensed in the State of Hawaii for acceptance. The cost of removal of the tie beam and the temporary brace, including design, shall be incidental to the cost for drilled shaft."

Please acknowledge receipt of the Addendum No. 2 by recording the date of its receipt in the space provided on page P-4 of the Proposal.

for BRIAN K. MINAAI
Director of Transportation

The upper limit for payment of structure excavation shall be the original ground surface before the start of construction operations with the following exceptions:

(1) When structure excavation is done within the roadway excavation area or ditch and channel excavation area, the upper limit shall be the planes of the bottom and side slopes of said areas excavated shown on the contract or as specified by the Engineer.

(2) When structure excavation is made in new embankments, the upper limit shall be the planes of the new embankment at the elevation shown in the contract or specified by the Engineer for construction ahead of doing the required structure excavation. The upper limit shall be the surface of the embankment at the time the excavation is made.

The lateral limits for payment of structure excavation shall be the vertical surfaces one foot outside the neat lines of the footings.

(B) Structure Backfill. The Engineer will measure structure backfill for bridge abutments, wingwalls, and retaining walls per cubic yard. Compute the quantities based on the following limits:

(1) Bridge Abutments, Wingwalls and Retaining Walls.

(a) The lower limit shall be the bottom of the completed footings.

(b) The upper limit for payment shall be the finished grade or the bottom of the pavement structure when under the roadway area.

(c) The lateral limits shall be one (1) foot outside the neat line of the footings. The limits whichever is at a greater distance from the backface in a direction normal to the wall stems shall be the vertical plane:

1. one (1) foot outside the heel of the footing, or

2. five (5) feet from the backface measured at the top.

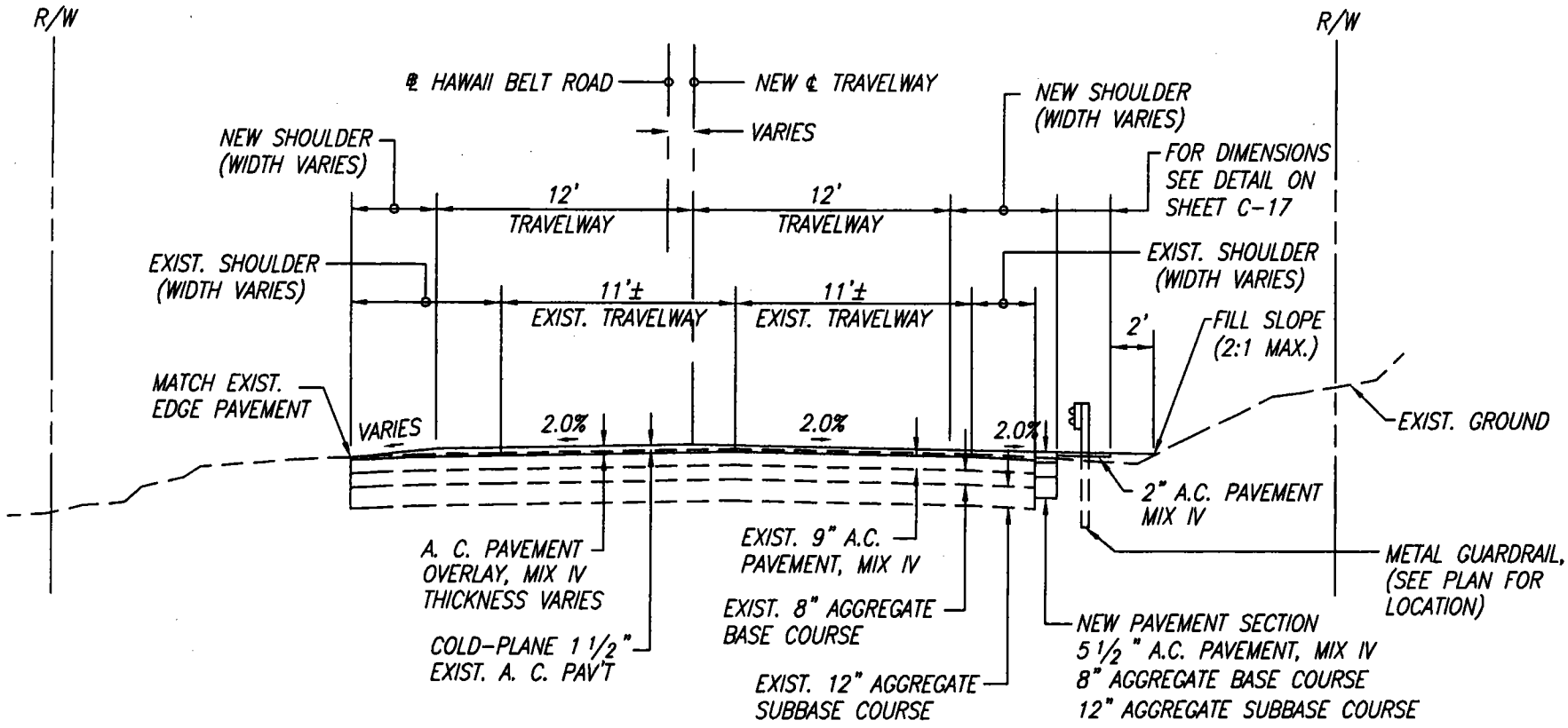
The Engineer will deduct the volume of filter material measured within the limits of payment for structure backfill for bridge abutments, wingwalls, and retaining walls from the pay quantities of structure backfill.

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
202.0440	REMOVAL OF EXISTING CONCRETE PAD (2 EACH)	L.S.	L.S.	L.S.	$ _____
202.0441	REMOVAL OF PORTION OF EXISTING CONCRETE STRUCTURE (180 CU.YD.)	L.S.	L.S.	L.S.	$ _____
202.0442	REMOVAL OF ASPHALT CONCRETE PAVEMENT (7800 SQ. FT.)	L.S.	L.S.	L.S	$ _____
203.0100	ROADWAY EXCAVATION	221	CU.YD.	$ _____	$ _____
203.0210	BORROW EXCAVATION	290	CU.YD.	$ _____	$ _____
206.6000	STRUCTURE EXCAVATION FOR BRIDGE	6100	CU.YD.	$ _____	$ _____
206.7000	STRUCTURE BACKFILL	800	CU.YD.	$ _____	$ _____
206.7300	LOW-DENSITY CONCRETE BACKFILL	7250	CU.YD.	$ _____	$ _____
206.7400	CLASS A CONCRETE BACKFILL	370	CU.YD.	$ _____	$ _____
206.8000	FILTER MATERIAL	15	CU.YD.	$ _____	$ _____
209.0100	WATER POLLUTION AND EROSION CONTROL	F.A.	F.A.	F.A.	$ 80,000.00
304.1110	AGGREGATE BASE	45	CU.YD.	$ _____	$ _____
305.1210	AGGREGATE SUBBASE FOR SHOULDER	68	CU.YD.	$ _____	$ _____
401.0400	ASPHALT CONCRETE PAVEMENT, MIX NO. IV	573	TON	$ _____	$ _____

PROPOSAL SCHEDULE

ITEM NO.	ITEM	APPROX. QUANTITY	UNIT	UNIT PRICE	AMOUNT
511.0600	FURNISHING DRILLED SHAFT DRILLING EQUIPMENT (1 EACH)	L.S.	L.S.	L.S.	$ _____
602.0091	REINFORCING STEEL IN BRIDGE (INCLUDING ABUTMENT WALLS, WING WALLS, STAIRS, AND BRIDGE FOOTINGS) (1,050,000 LBS.)	L.S.	L.S.	L.S.	$ _____
606.3110	GUARDRAIL, TYPE 3 - SINGLE WITH STEEL POST	113	LIN.FT.	$ _____	$ _____
606.3112	GUARDRAIL, TYPE 3 - THRIE BEAM - INCLUDING TRANSITION	100	LIN.FT.	$ _____	$ _____
606.7000	TERMINAL SECTION, TYPE FLEAT-350	2	EACH	$ _____	$ _____
606.7001	TERMINAL SECTION, TYPE A FLARE	2	EACH	$ _____	$ _____
621.1000	REFLECTOR MARKER, TYPE RM-3	12	EACH	$ _____	$ _____
621.1010	REFLECTOR MARKER, TYPE RM-4(L)	2	EACH	$ _____	$ _____
621.1020	REFLECTOR MARKER, TYPE RM-4(R)	2	EACH	$ _____	$ _____
621.2000	MILE POST MARKER WITH POST (BI-DIRECTIONAL)	1	EACH	$ _____	$ _____
621.3000	CONSTRUCTION SIGN	10	EACH	$ _____	$ _____
621.3100	CONSTRUCTION SIGN WITH ONE POST	9	EACH	$ _____	$ _____
621.3200	CONSTRUCTION SIGN WITH TWO POSTS	16	EACH	$ _____	$ _____



TYPICAL SECTION – HAWAII BELT ROAD
℄ STA. 276+50 TO 276+21.50

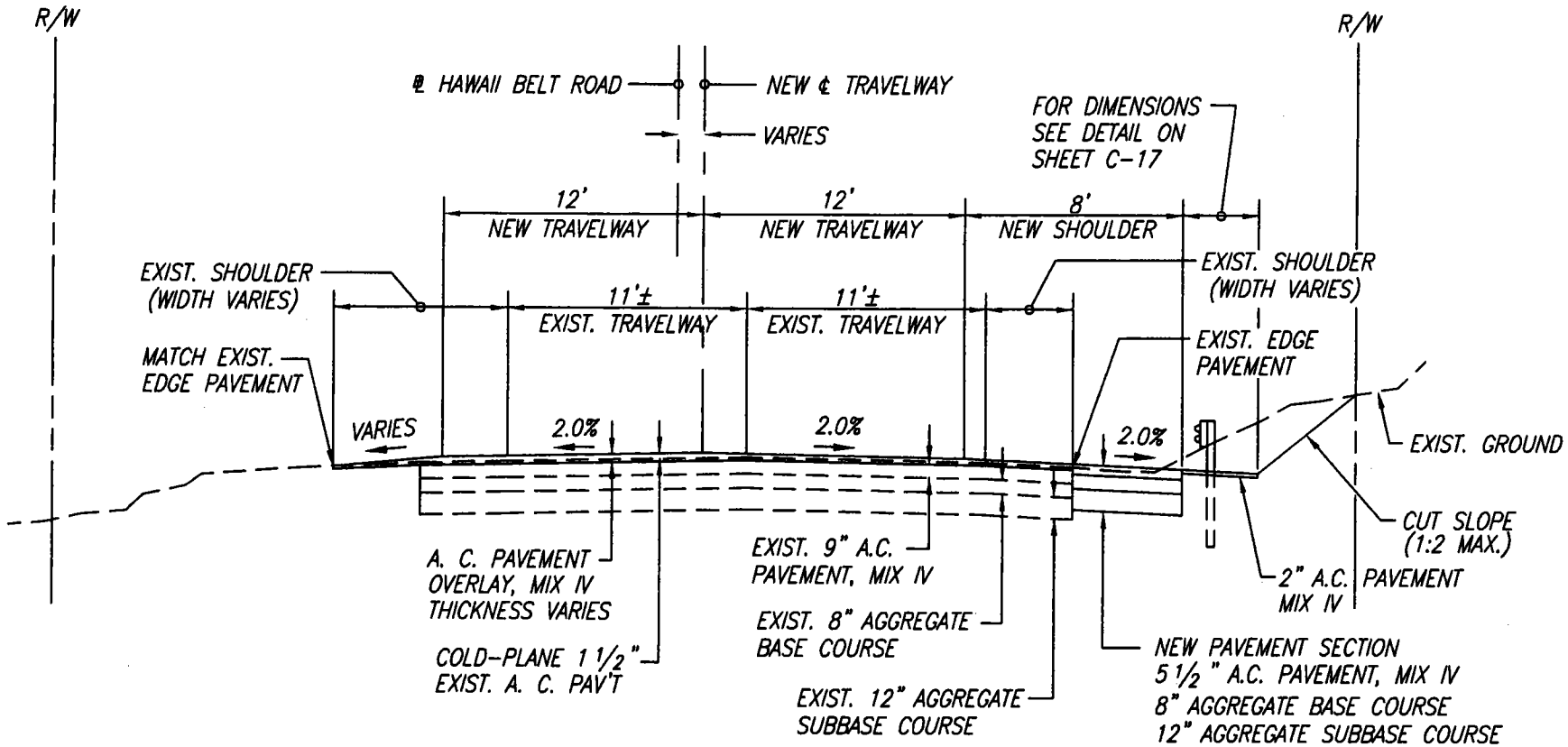
SCALE : 1/4" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)

Scale: As Noted Date: Oct 2001



TYPICAL SECTION – HAWAII BELT ROAD

℄ STA. 271+00 TO 270+50

SCALE : 1/4" = 1'-0"

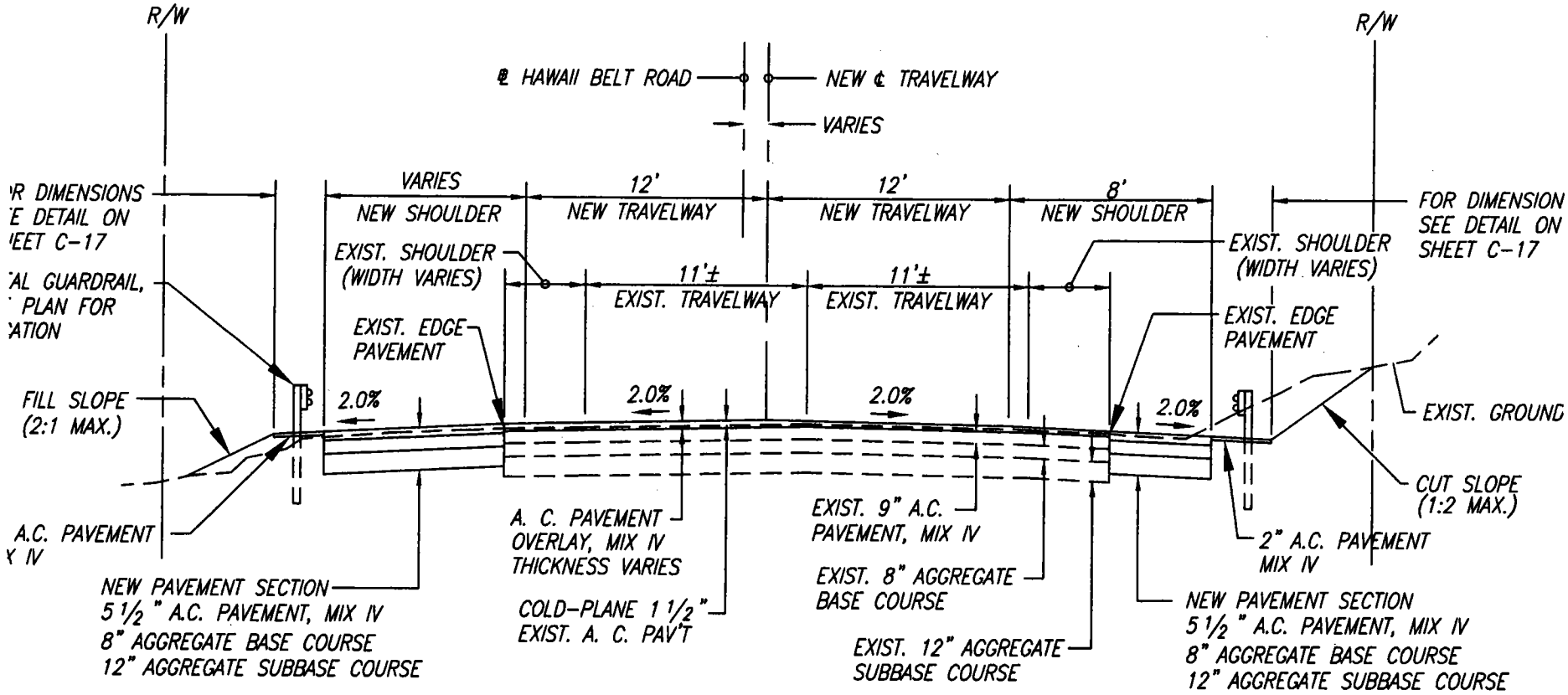
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)

Scale: As Noted *Date: Oct 2001*

SHEET No. C-5 **OF** 41 **SHEETS**



TYPICAL SECTION – HAWAII BELT ROAD

℄ STA. 276+21.50 TO 275+34.25

℄ STA. 271+80.75 TO 271+00

SCALE : 1/4" = 1'-0"

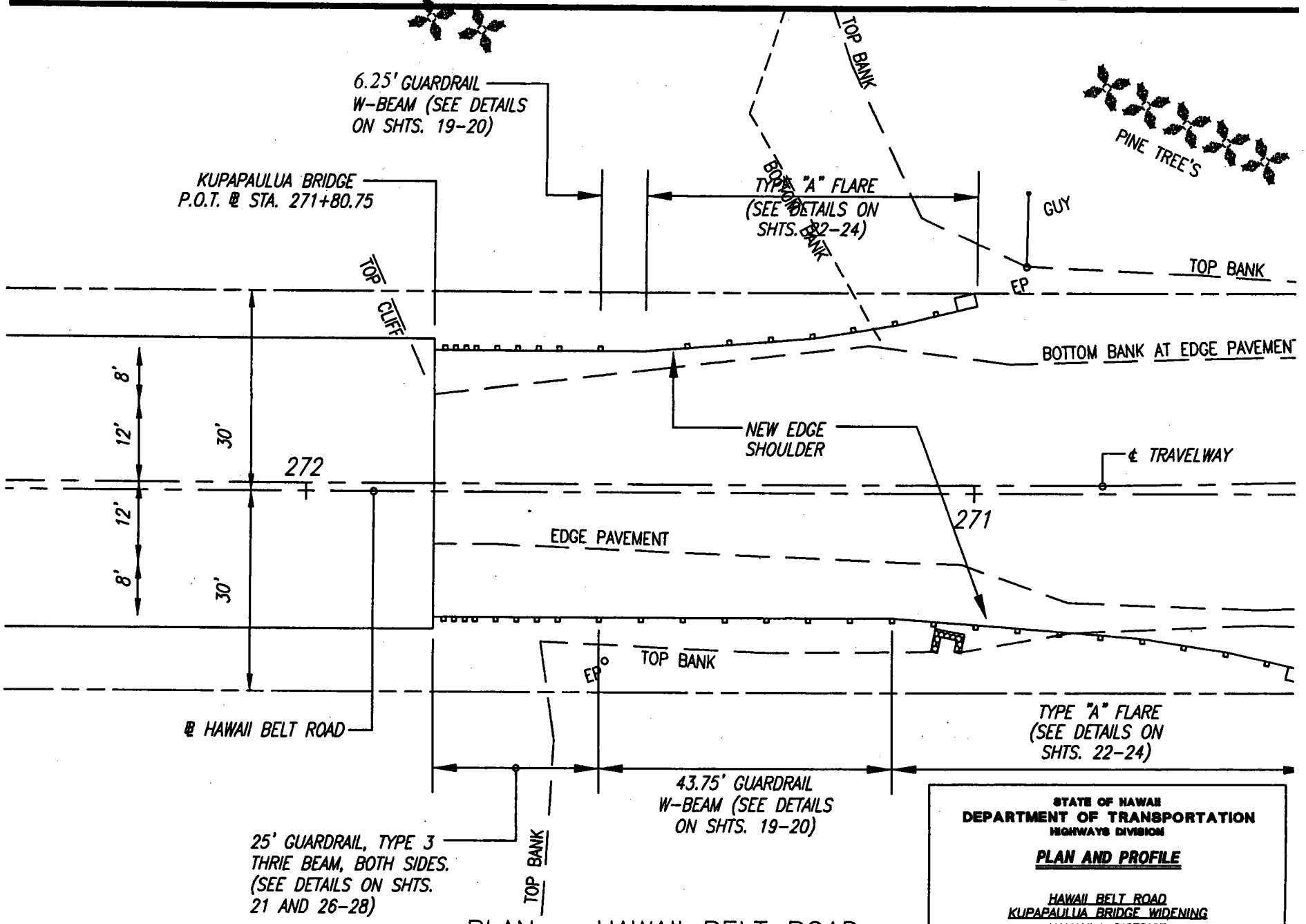
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TYPICAL SECTIONS

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)

Scale: As Noted *Date: Oct 2001*

SHEET No. C-5 **OF** 41 **SHEETS**



PLAN – HAWAII BELT ROAD

SCALE: 1"=20'

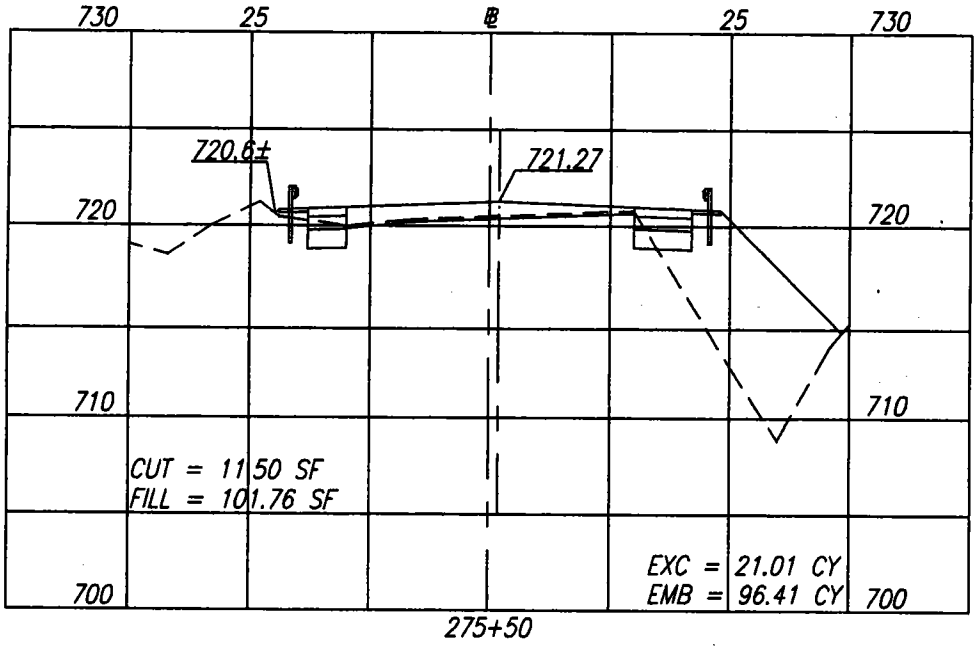
TMK: 4-1-02 3RD DIV.

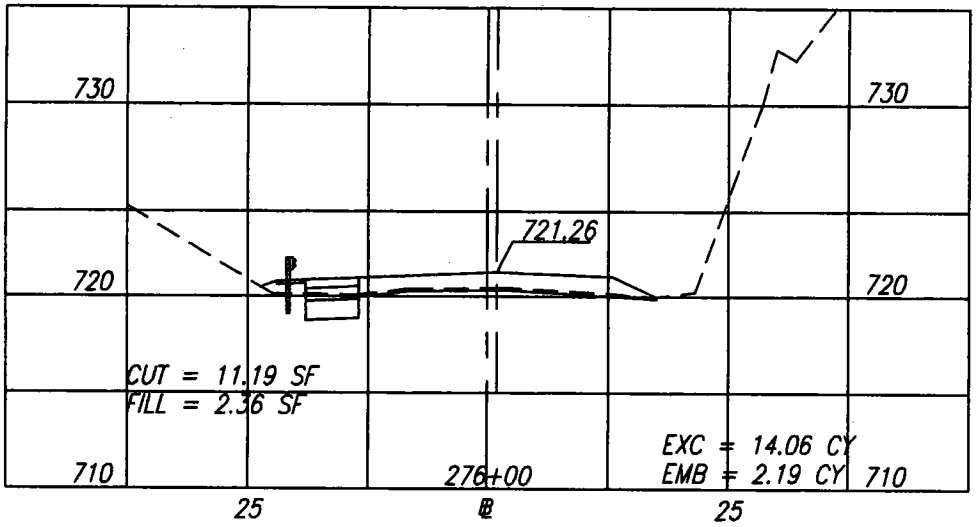
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PLAN AND PROFILE

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)

Scale: As Noted Date: Oct 2001



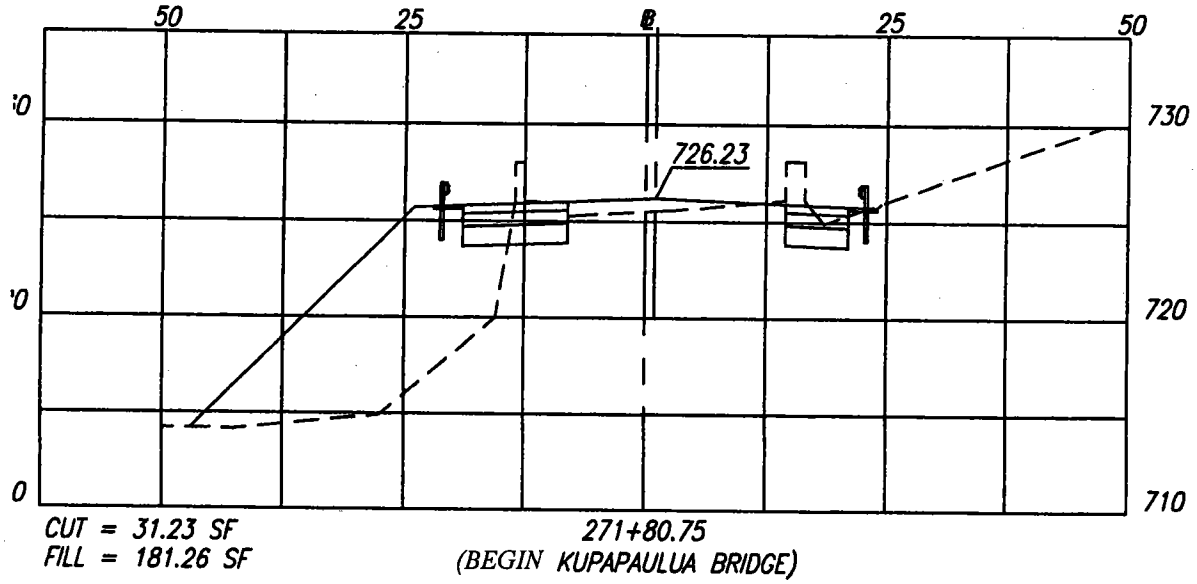


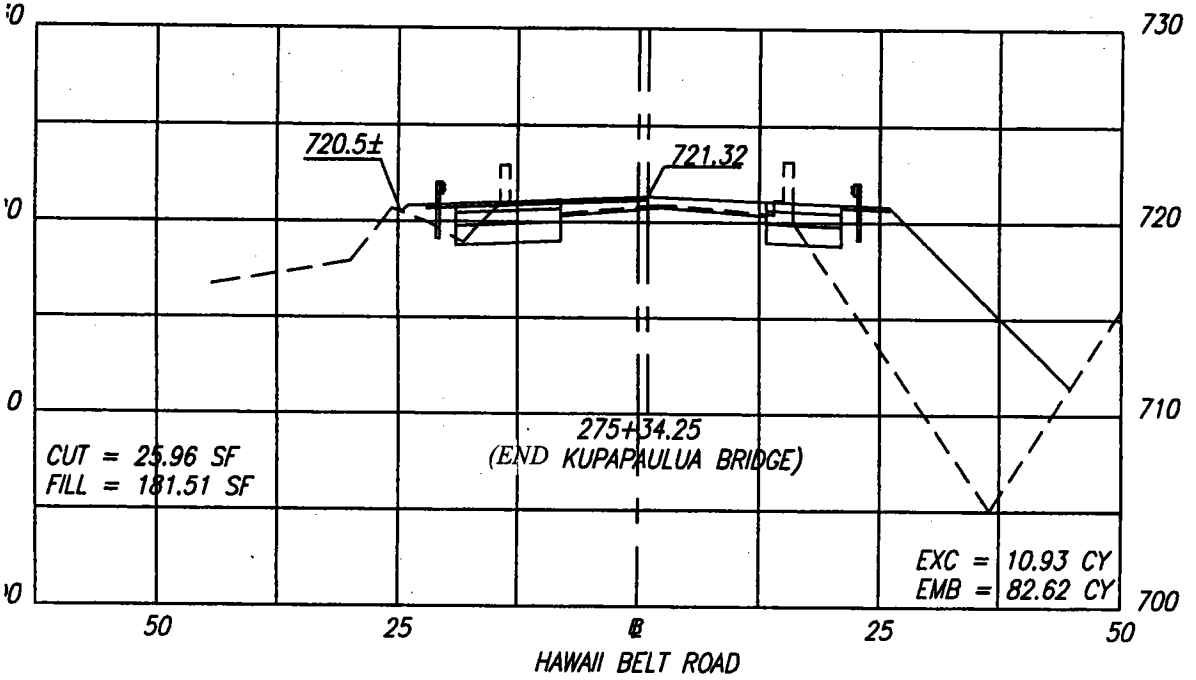
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)

Scale: As Noted Date: Oct 2001



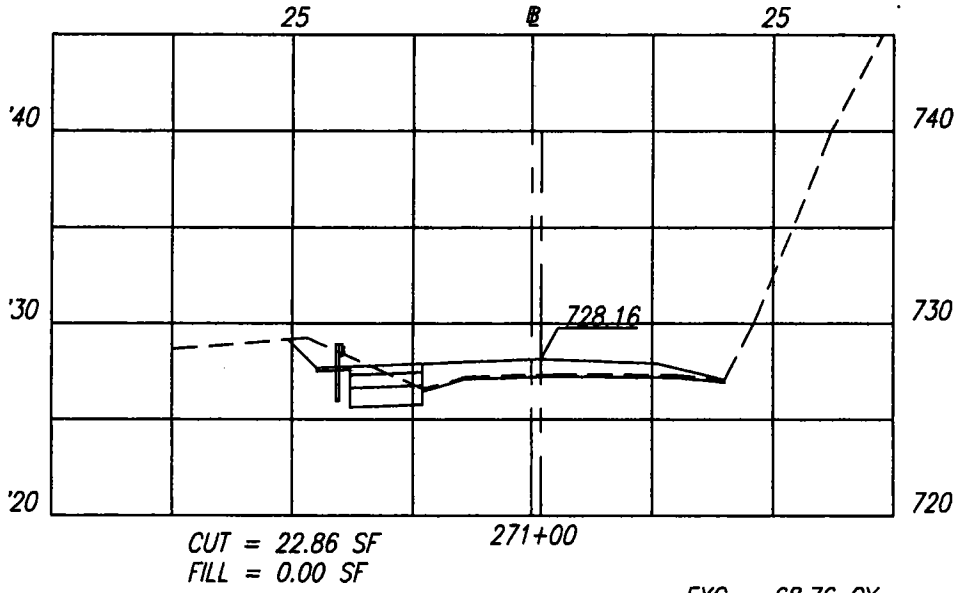


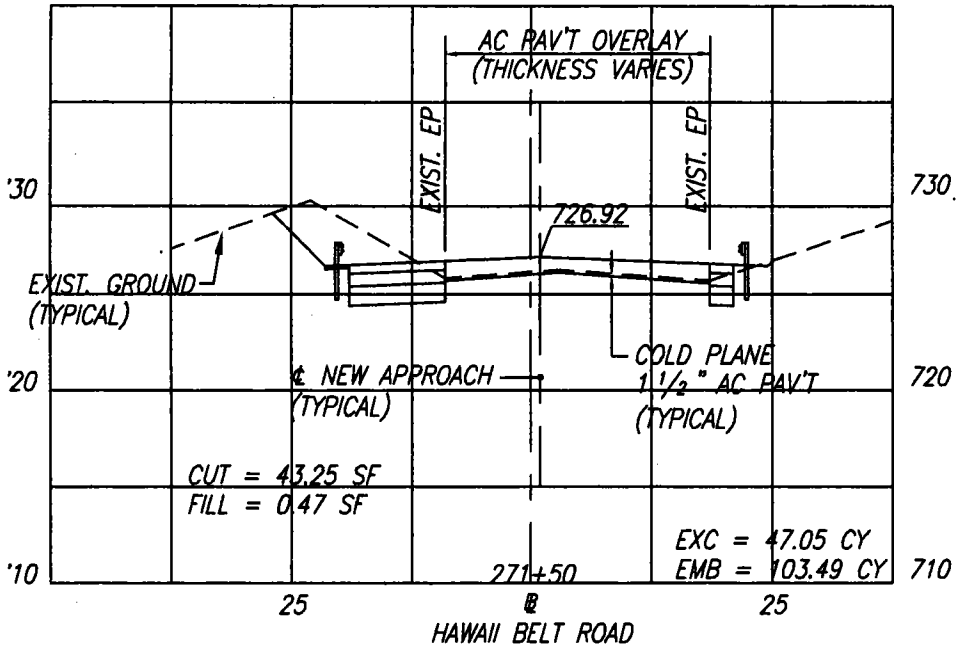
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project, No. BR-019-2(38)

Scale: As Noted Date: Oct 2001





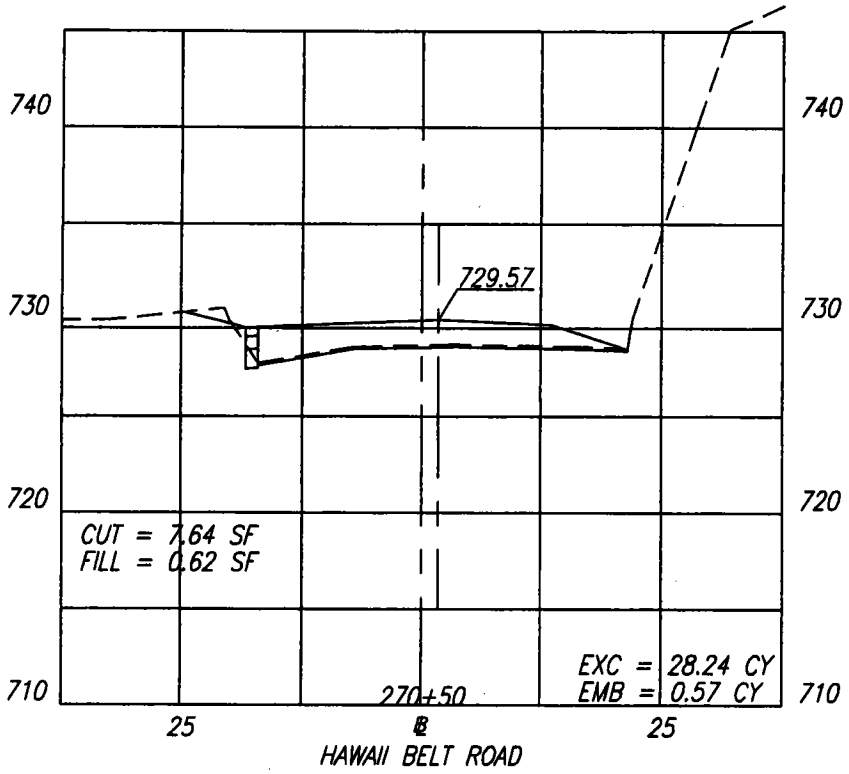
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project, No. BR-019-2(38)

Scale: As Noted Date: Oct 2001

SHEET No. C-16 **OF** 41 **SHEETS**



TOTAL APPROXIMATE EARTHWORK QUANTITIES

EXCAVATION = 220.62 CY

EMBANKMENT = 289.79 CY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CROSS SECTIONS

HAWAII BELT ROAD
KUPAPAULUA BRIDGE WIDENING
HAMAKUA DISTRICT
Federal-Aid Project No. BR-019-2(38)

Scale: As Noted Date: Oct 2001

SHEET No. C-16 **OF** 41 **SHEETS**