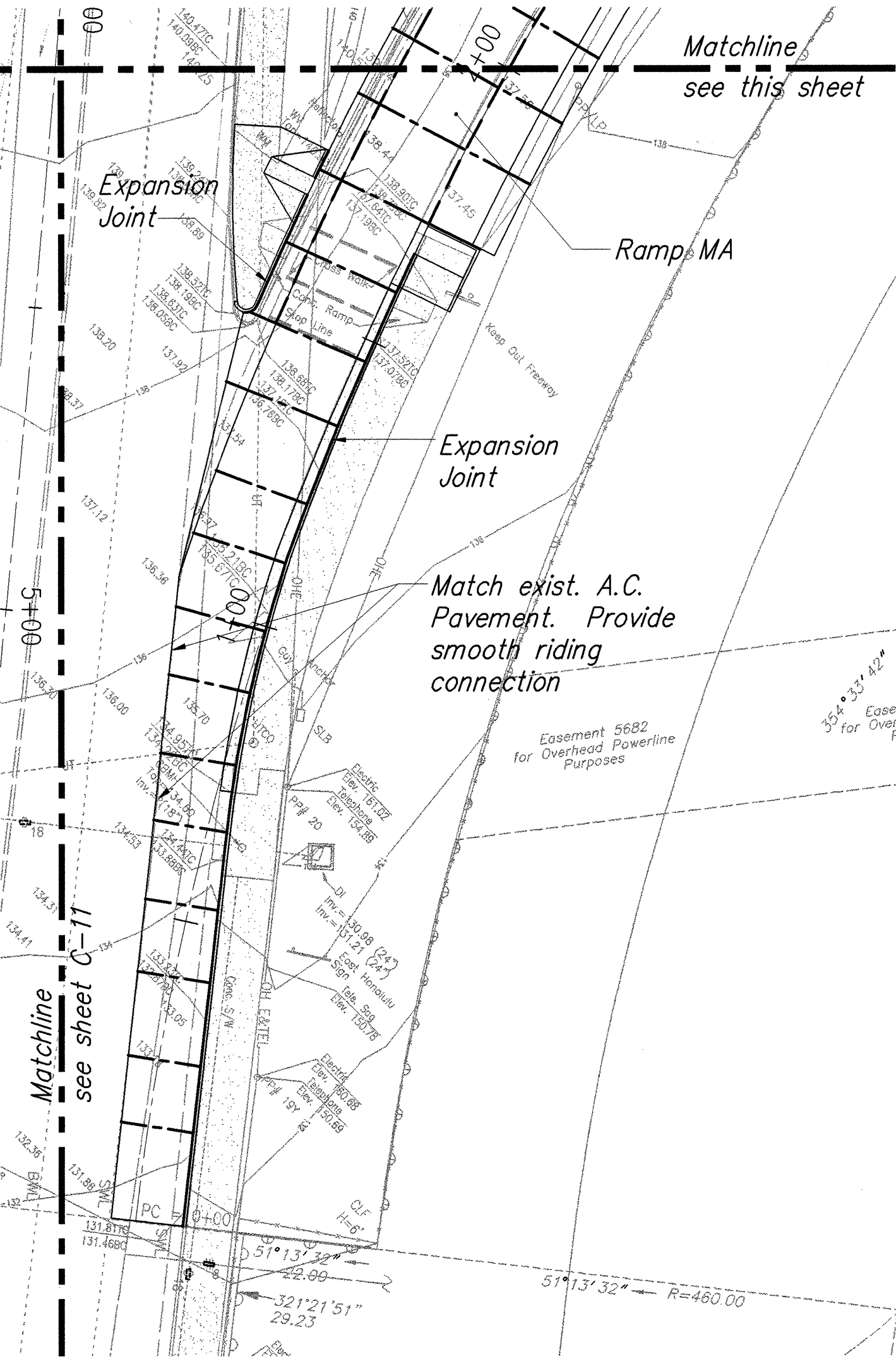


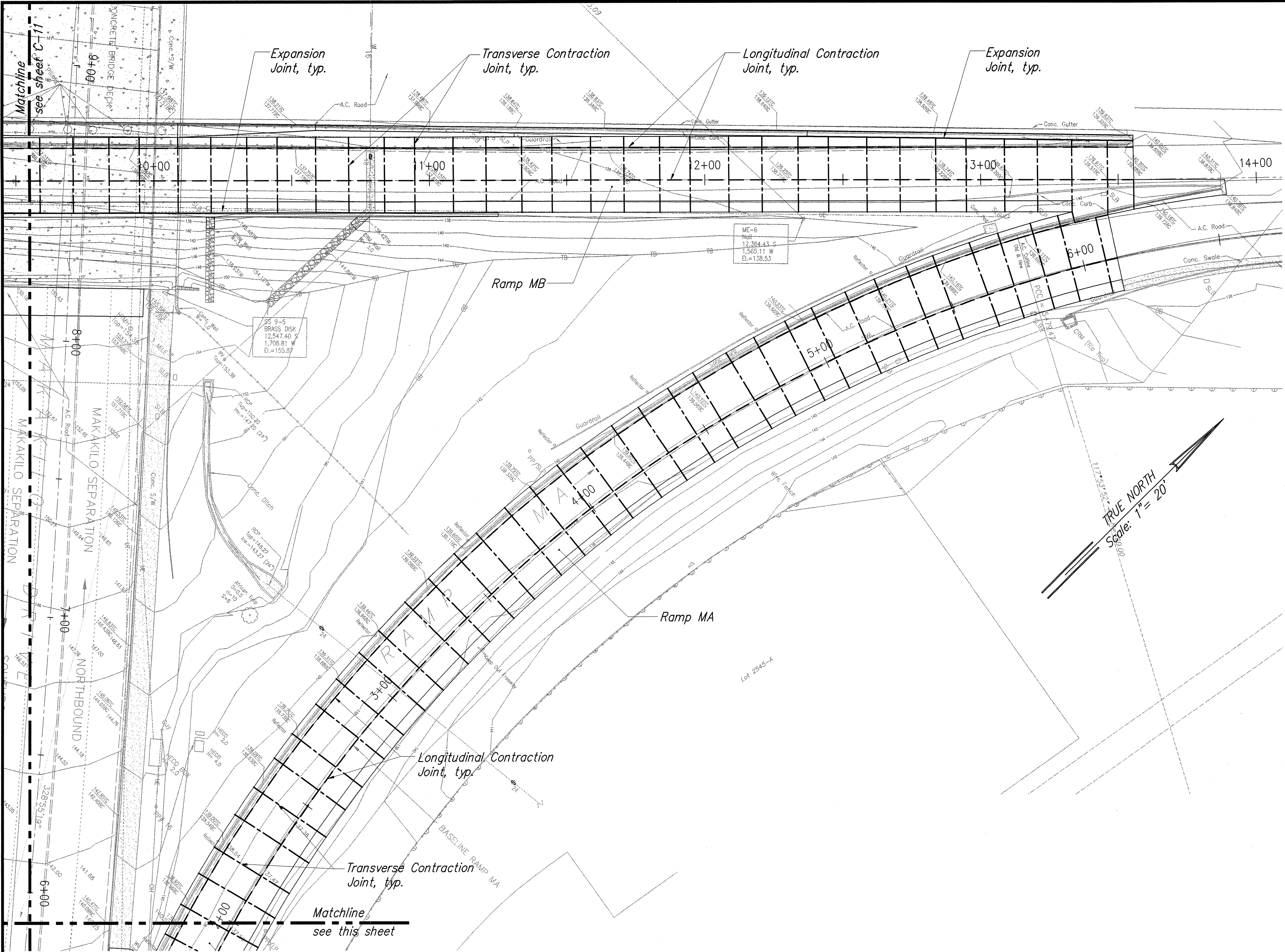
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	H1A-01-02M	2003	12	88

LEGEND

- Expansion Joint (EJ) / Isolation Joint (IJ)
- Longitudinal Contraction Joint (LCJ)
- Transverse Contraction Joint (TCJ)

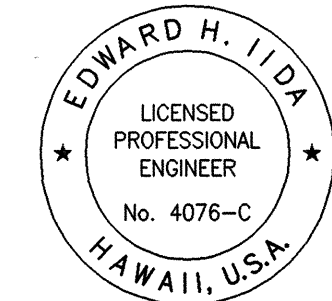
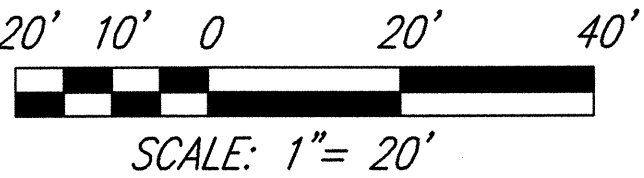


ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	DATE
DRAWN BY	DATE
DESIGNED BY	DATE
CHECKED BY	DATE



PARTIAL JOINTING PLAN - 1
Scale: 1" = 20'

GRAPHIC SCALE:



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[Signature]
MITSUNAGA & ASSOCIATES

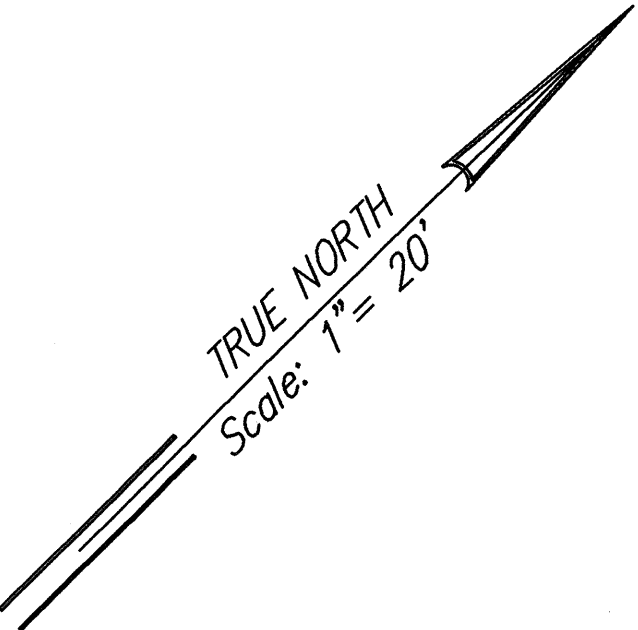
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PARTIAL JOINTING PLAN - 1

INTERSTATE ROUTE H-1 REHABILITATION
Vicinity Of Makakilo Interchange
Project No. H1A-01-02M
Scale: As Noted Date: April 2003
SHEET No. C-10 OF 42 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	H1A-01-02M	2003	13	88

LEGEND

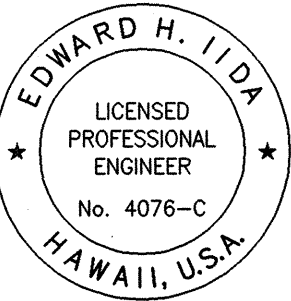
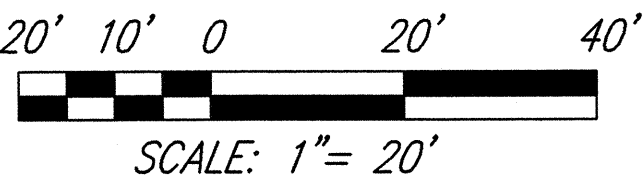
- Expansion Joint (EJ) / Isolation Joint (IJ)
- Longitudinal Contraction Joint (LCJ)
- Transverse Contraction Joint (TCJ)



PARTIAL JOINTING PLAN - 2

Scale: 1" = 20'

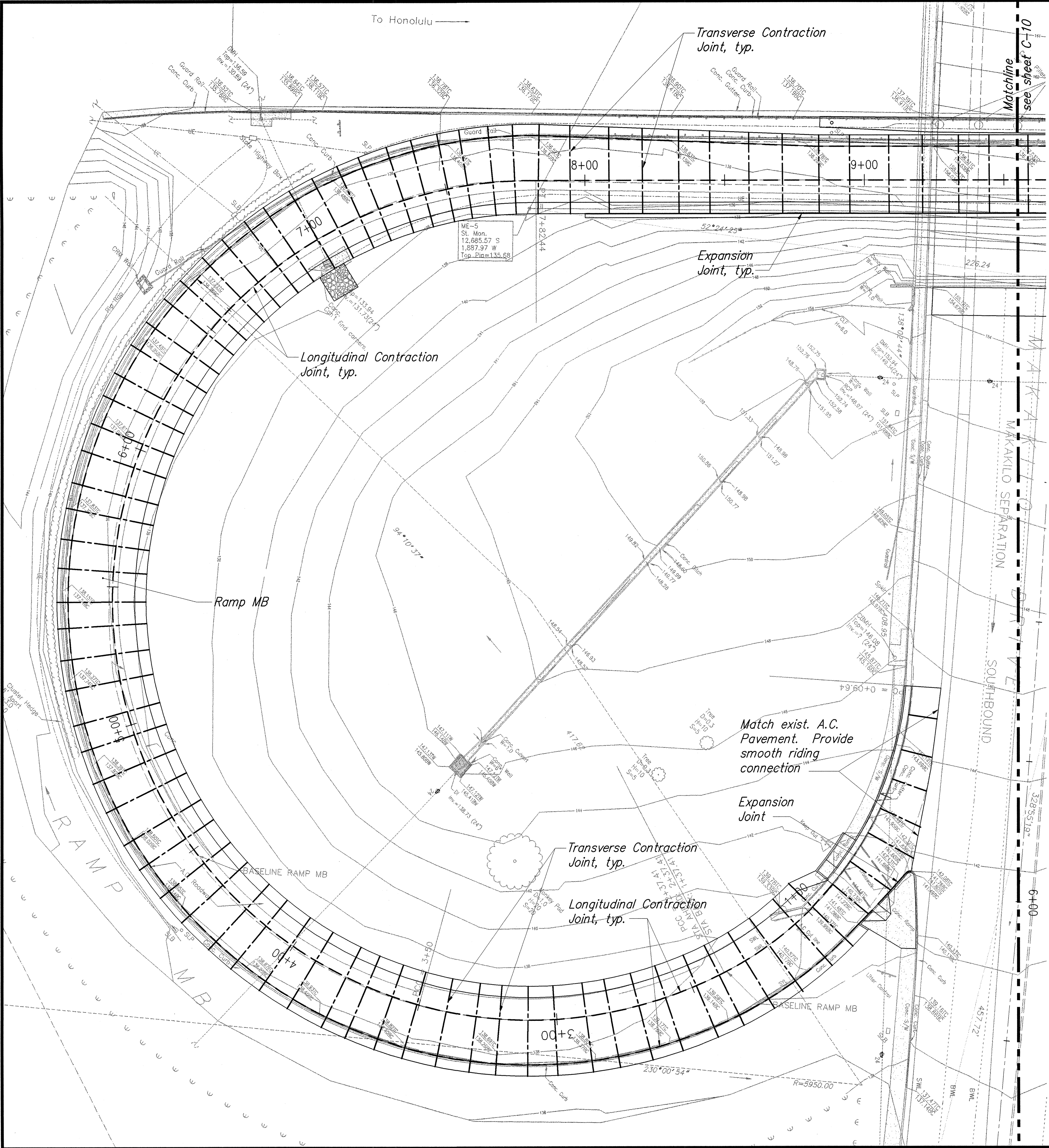
GRAPHIC SCALE:



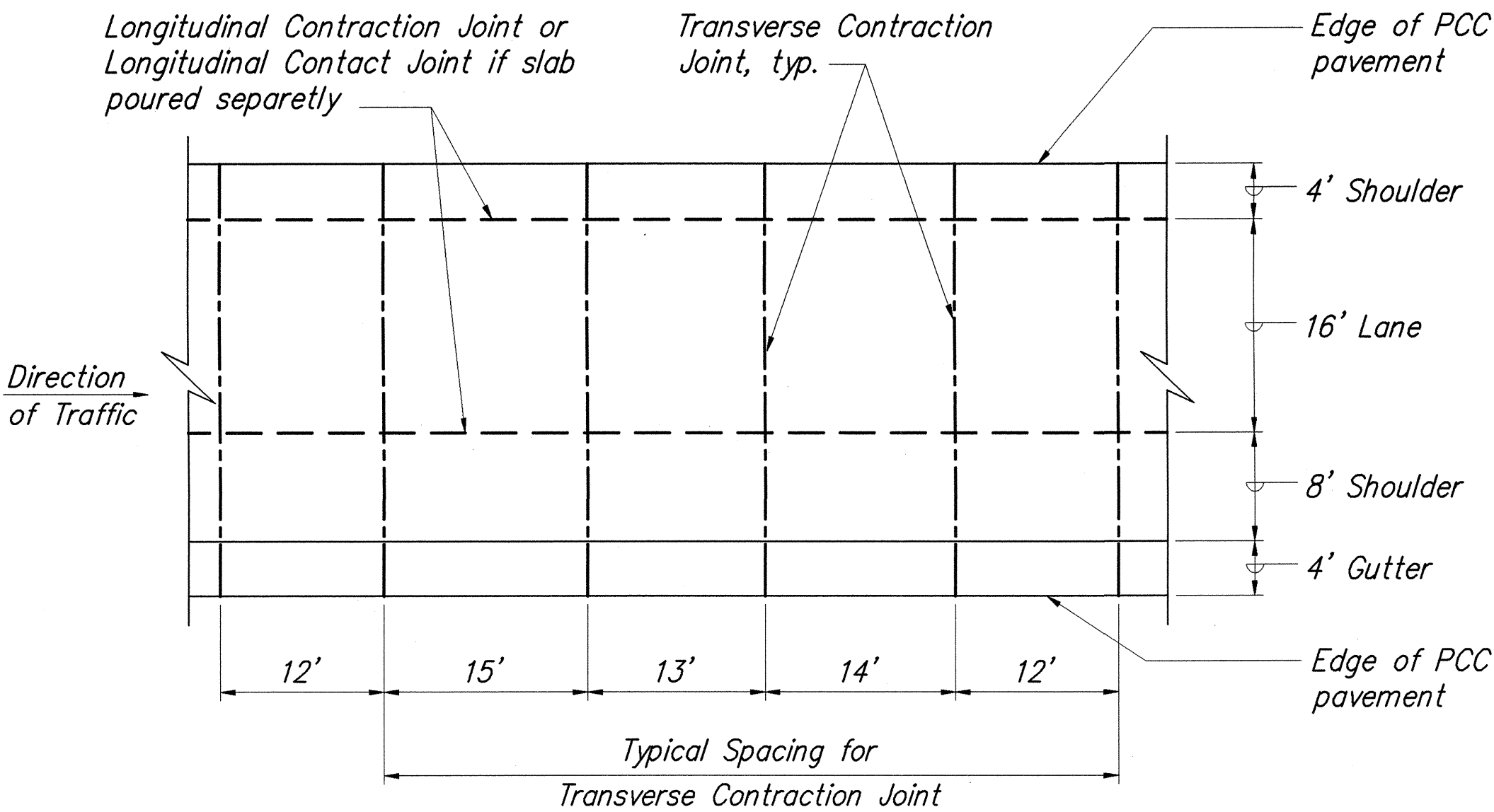
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Edward H. Iida
 MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
PARTIAL JOINTING PLAN - 2
INTERSTATE ROUTE H-1 REHABILITATION
Vicinity Of Makakilo Interchange
Project No. H1A-01-02M
Scale: As Noted Date: April 2003
SHEET No. C-11 OF 42 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	4/02
DESIGNED BY	4/02
QUANTITIES BY	4/02
CHECKED BY	4/02



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAWAII	H1A-01-02M	2003	14	88

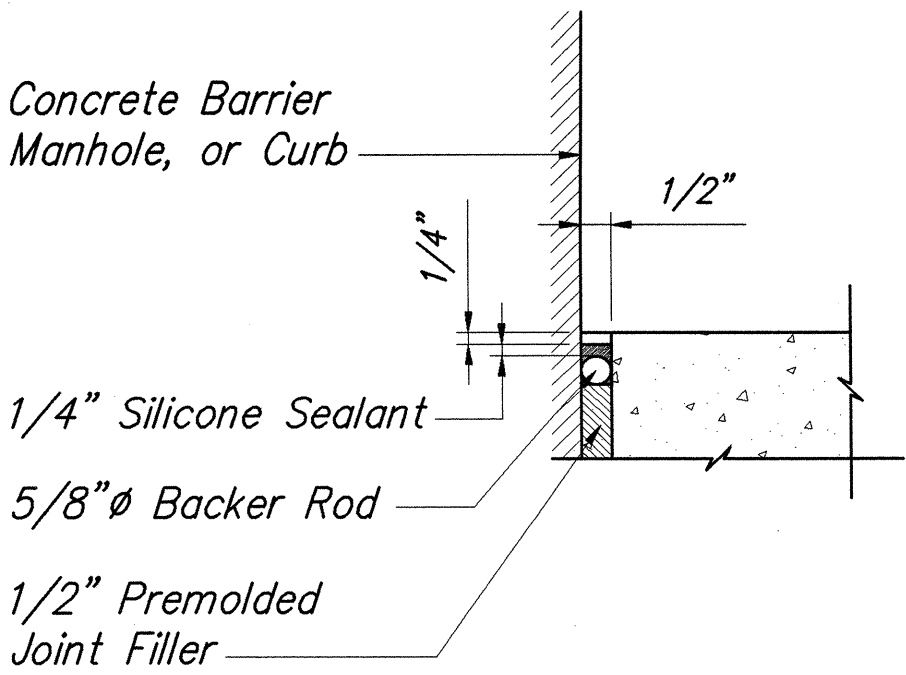


TYPICAL JOINT LOCATION AND LAYOUT PLAN

Scale: 1" = 10'

GENERAL JOINTING NOTES:

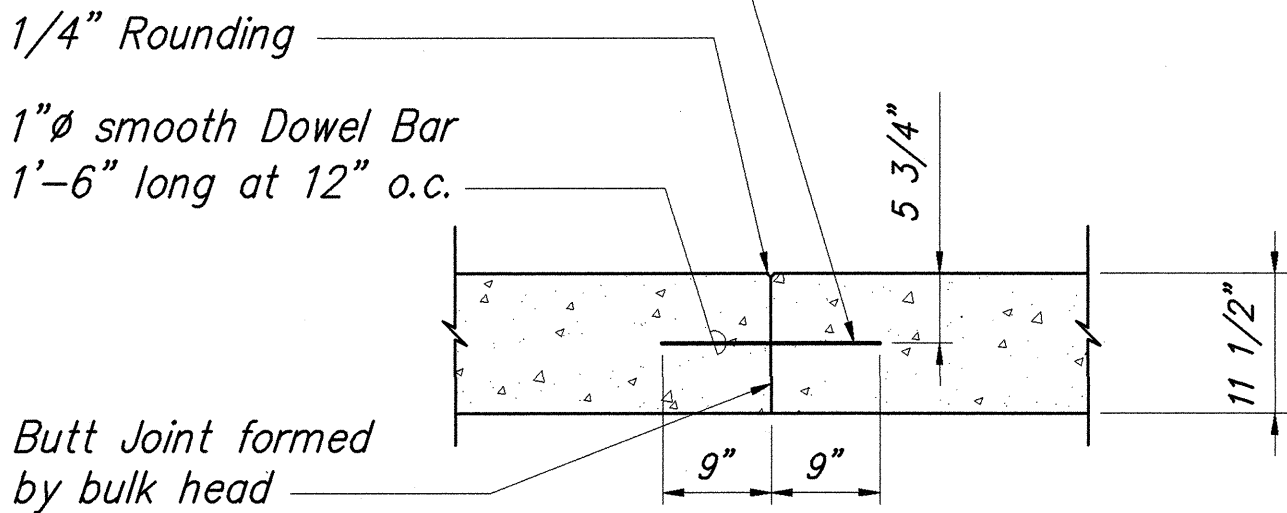
1. Transverse Contraction Joints shall be spaced at successive intervals of 12', 15', 13' and 14' in the direction of traffic. Repeat this spacing for the remaining joints.
2. Transverse Construction Joints shall be located a minimum distance of 10 feet from the nearest Transverse Contraction Joint.
3. At the outer edge of the P.C.C. pavement, 1-1/2" radius rounding shall be utilized longitudinally.
4. All steel shall conform to ASTM A615, Grade 60. All steel shall be epoxy coated. The coating materials and process, the fabrication, handling, identification of the bars, and the repair of damaged coating that occurs during fabrication and handling, to the point of shipment to the job site, shall conform to the requirements of ASTM A 934. All steel that is not completely covered with epoxy coating or with damaged epoxy coating shall be replaced at no cost to the State.
5. Dowel baskets shall be anchored to prevent movement during the concrete pour.



EXPANSION JOINT ISOLATION JOINT DETAIL

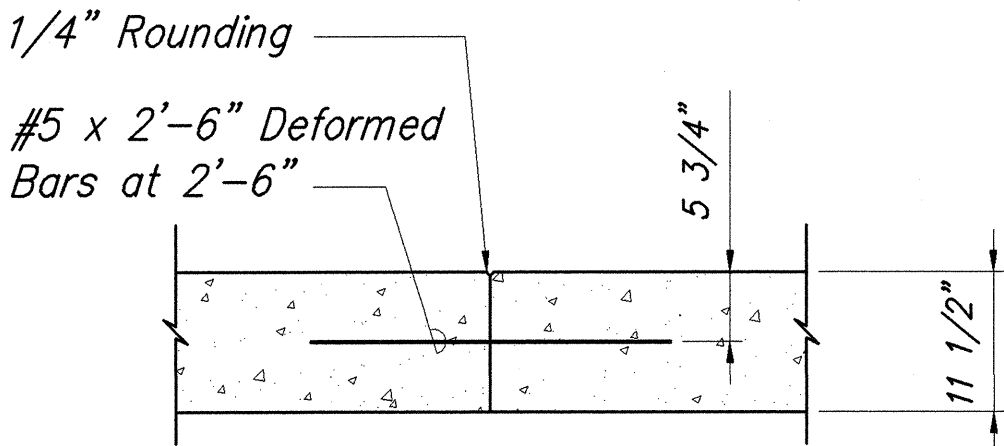
Scale: 3" = 1'-0"

Dowels shall be positioned in place parallel to the Pavement Surface prior to pouring and the ends of Dowels shall not deviate more than 0.02' from the parallel



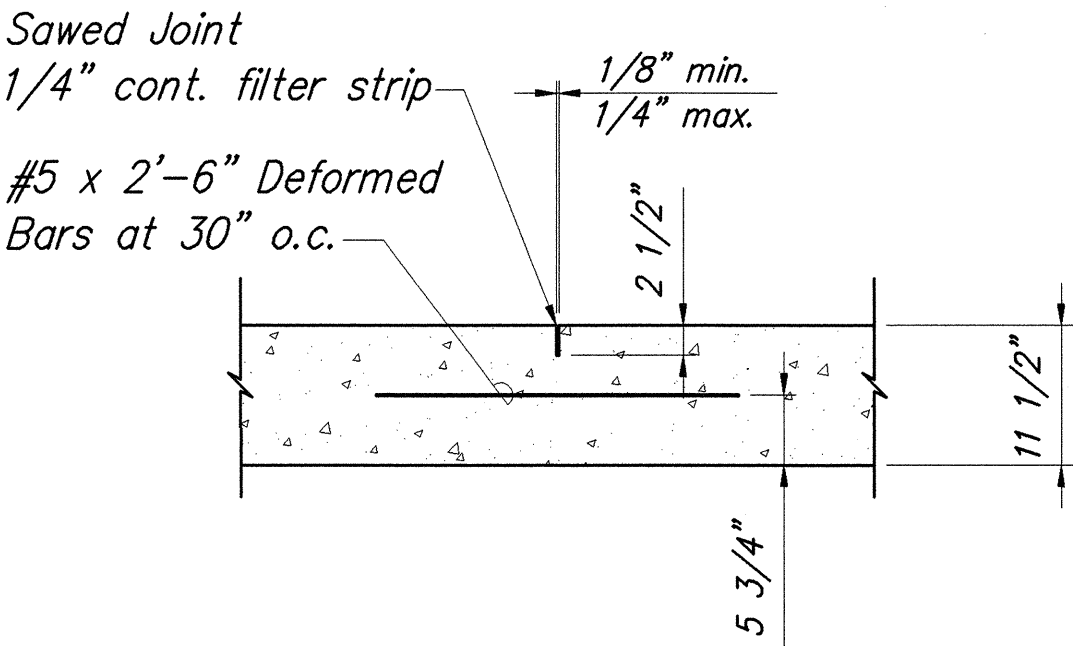
TRANSVERSE CONSTRUCTION JOINT (CONTACT JOINT)

Scale: 3/4" = 1'-0"



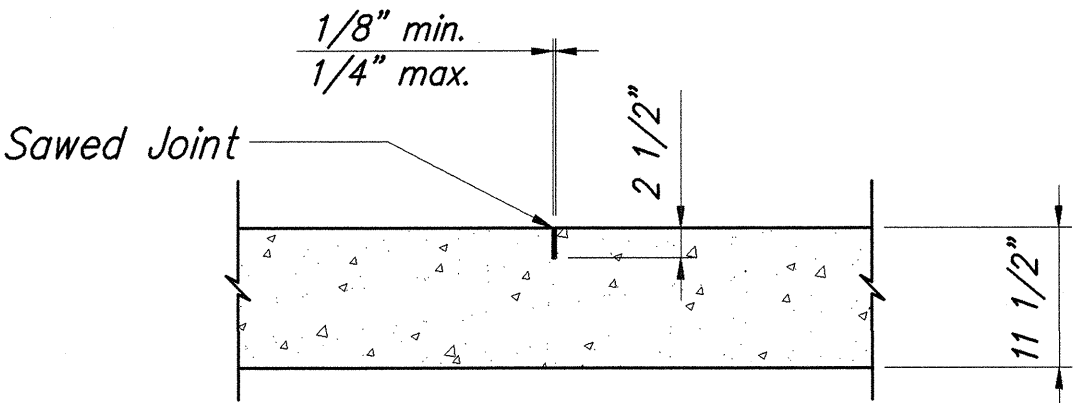
LONGITUDINAL CONTACT JOINT

Scale: 3/4" = 1'-0"



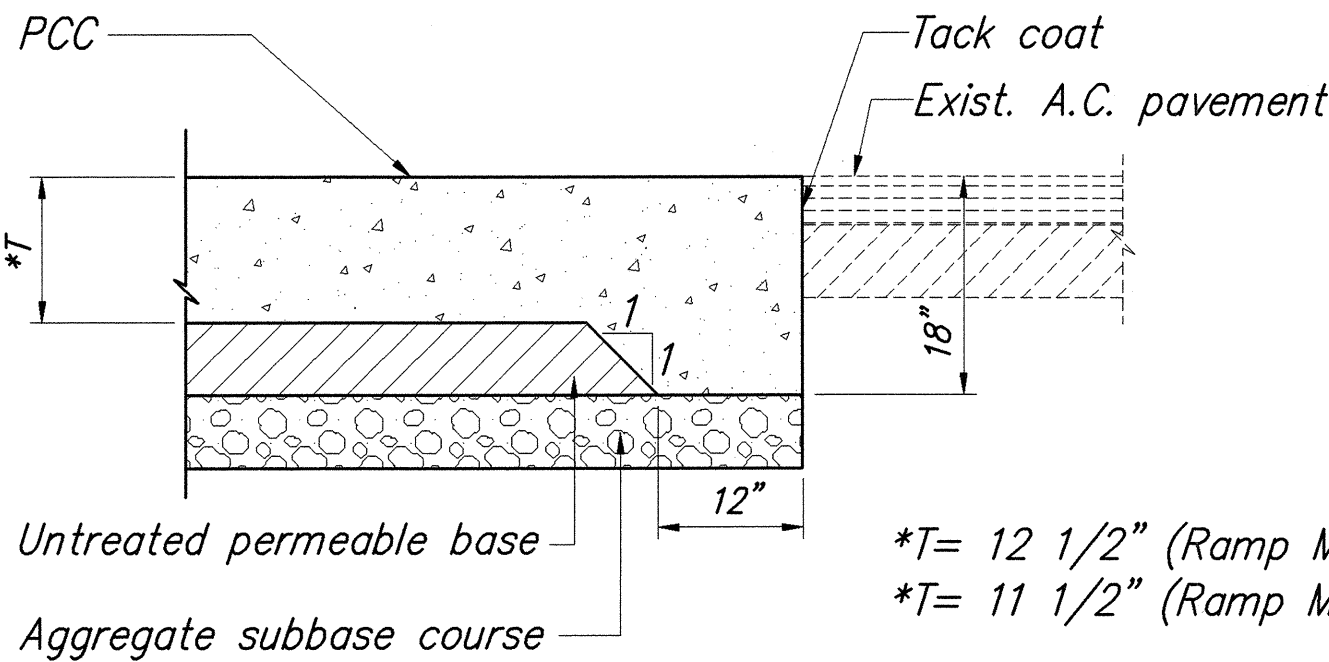
LONGITUDINAL CONTRACTION JOINT

Scale: 3/4" = 1'-0"



TRANSVERSE CONTRACTION JOINT

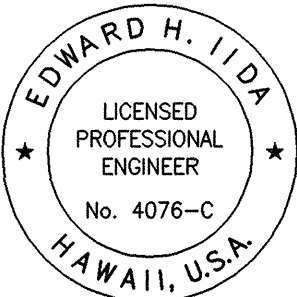
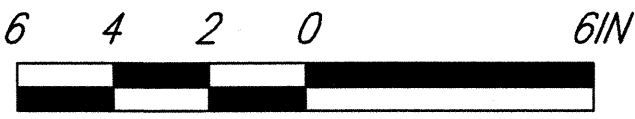
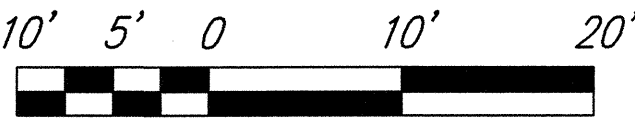
Scale: 3/4" = 1'-0"



SMOOTH RIDING CONNECTION DETAIL

Scale: 3/4" = 1'-0"

GRAPHIC SCALES:



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Edward H. Iida

MITSUNAGA & ASSOCIATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONCRETE JOINT DETAILS

INTERSTATE ROUTE H-1 REHABILITATION
Vicinity Of Makakilo Interchange
Project No. H1A-01-02M

Scale: As Noted Date: April 2003

SHEET No. C-12 OF 42 SHEETS