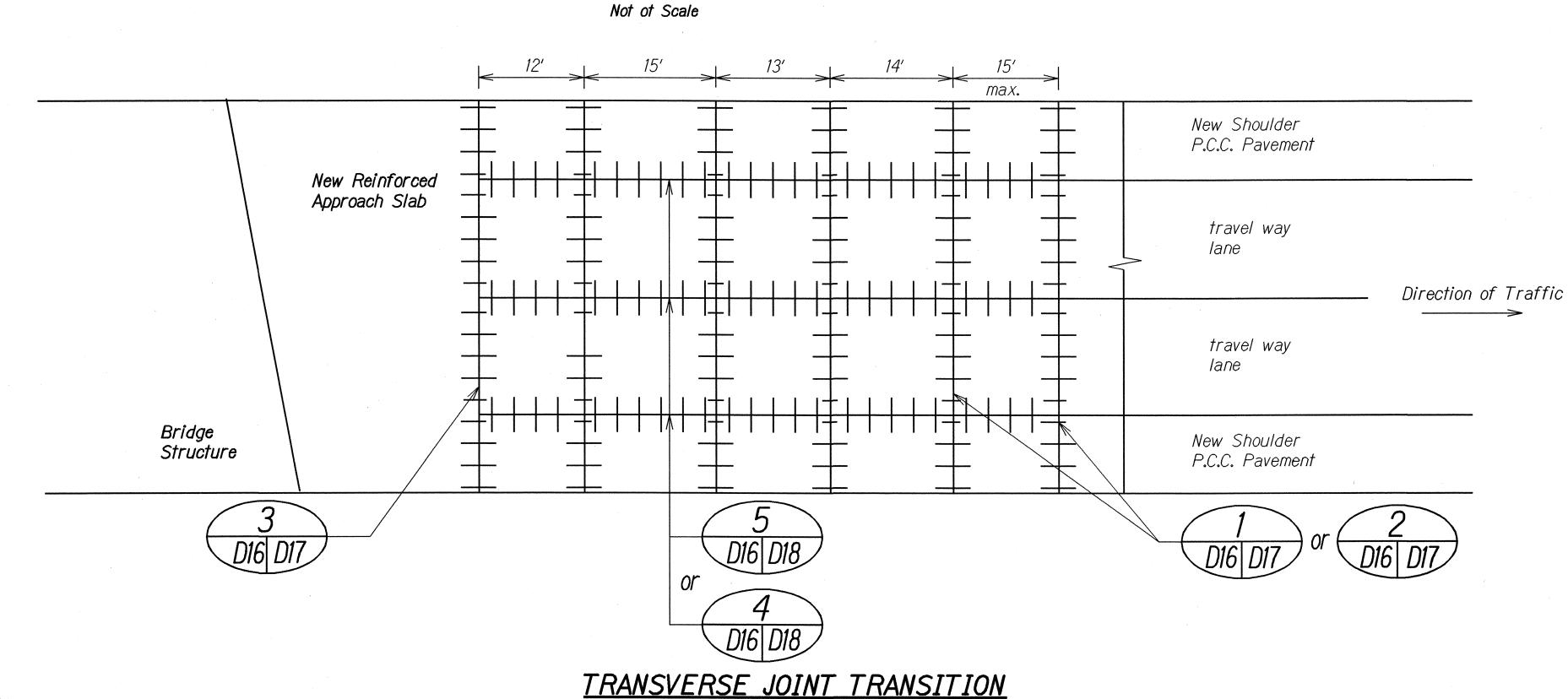


TYPICAL JOINT LAYOUT PLAN WITH SKEWED JOINTS



ODD SKEW TO TYPICAL SKEW

Not to Scale

FED. ROAD
DIST. NO.STATEPROJ. NO.FISCAL
YEARSHEET
NO.TOTAL
SHEETSHAWAIIHAW.HWY-0-01-05M200614106

NOTES:

- 1. The dimensions shown are for a 12 foot wide travel way lane width.

 For other lane widths adjust the transverse joint spacing to obtain a length to width ratio of not greater than 1.25 for the travel way lane slabs.
- 2. Skew the typical transverse joint with a 2 foot offset counter clockwise from a perpendicular to the edge of pavement for every 12 feet along that perpendicular.
- 3. Space transverse joint at successive intervals at 12', 15', 13', and 14' in the direction of travel. Repeat for the remaining joints.
- 4. For travel way lanes, reinforce odd shaped slabs and slabs with mismatched joints. Odd shaped slabs are slabs with length to width ratios greater than 1.25 and other nonsquare shaped slabs. Triangular shapes are not allowed.
- 5. For the shoulder, reinforcing is not required for slabs that exceed the length to width ration of 1.25. Triangular shapes are not allowed.
- 6. Locate transverse construction joints at a minimum distance of ten (10) feet and a maimum of fifteen (15) feet from the nearest planned constrction joint.
- 7. Provide shop drawings for joint layout where obstructions such as manholes are encountered, and at intersections with other streets.
- 8. For other Joint Requirements, See Section 411 of the Special Provisions and/or Standard Specifications

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

P.C.C. PAVEMENT LAYOUT

AIEA ACCESS ROAD RESURFACING

MOANALUA ROAD

TO KAMEHAMEHA HIGHWAY

Project No. HWY-0-01-05M

Scale: Not to Scale Date: June, 2005

SHEET No. / OF / SHEETS

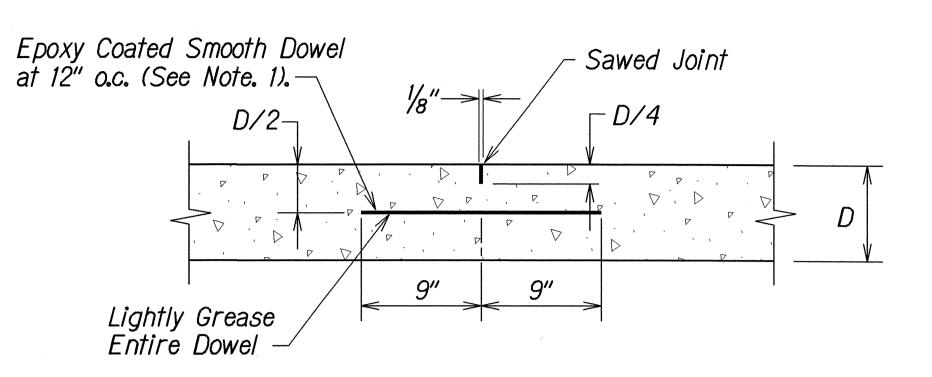
ORIGINAL SURVEY P
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NOTE BOOK

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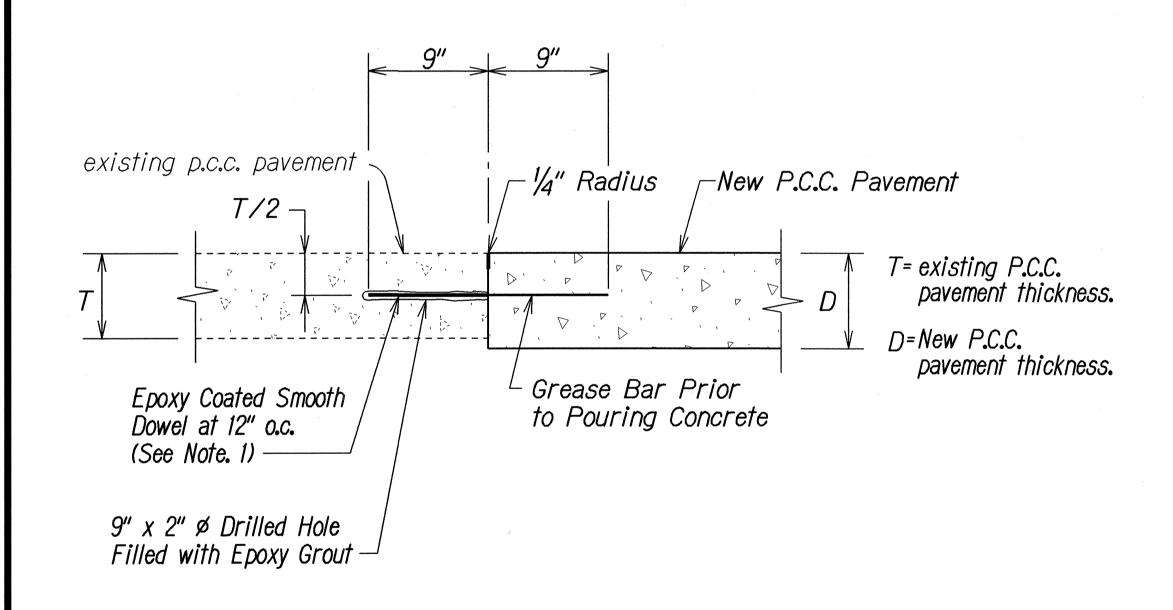
14



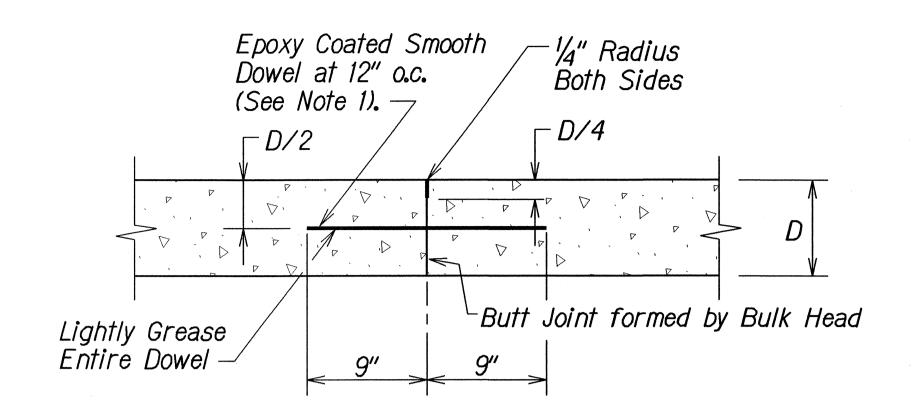
D16 D17

TRANSVERSE CONTRACTION JOINT FOR PERPENDICULAR JOINTS

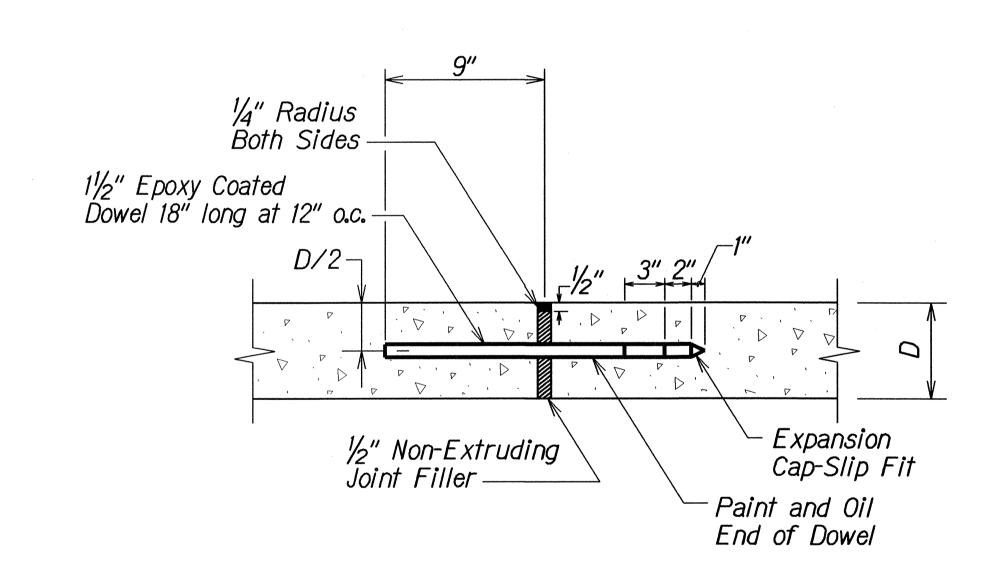
Not to Scale



TRANSVERSE CONSTRUCTION JOINT AT EXISTING P.C.C. PAVEMENT Not to Scale



TRANSVERSE CONSTRUCTION JOINT Not to Scale



NOTE: Either one piece or threaded split type dowels may be used.

TRANSVERSE EXPANSION JOINT

Not to Scale



FED. ROAD DIST. NO. FISCAL SHEET TOTAL YEAR NO. SHEETS PROJ. NO. STATE HAW. HWY-0-01-05M 2006 15

NOTES:

- Epoxy Coated Dowels shall Conform to AASHTO M284/M 284/M-95 Grade, 40 or 60. For pavements with $D \le 10^{\circ}$, use $1^{\circ}/4^{\circ}$ X 1'6" long dowels. For pavements with D>10", use $1^{\circ}/2$ " X 1'-6" long dowels.
- 2. Transverse Construction Joints shall be located at a Minimum Distance of 10 Feet from the Nearest Transverse Contraction Joint. Joint shall be perpendicular to paving lane.
- 3. It is critical that dowels be positioned in place parallel to the pavement surface and paving lane direction to avoid future cracks in the P.C.C. pavement. The ends of the dowels shall not deviate more than 0.01' from the parallel in 9" length.
- 4. See Typical Joint Location and Layout Plan for Transverse Joint Spacing.
- 5. The Contractor shall not damage the epoxy coating on the dowel in an way during shipment, handling, or placement. Damaged epoxy coated dowels shall be replaced at no cost to the State.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

P.C.C. PAVEMENT JOINT DETAILS

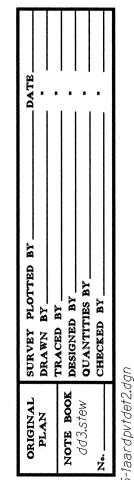
AIEA ACCESS ROAD RESURFACING MOANALUA ROAD

TO KAMEHAMEHA HIGHWAY Project No. HWY-0-01-05M

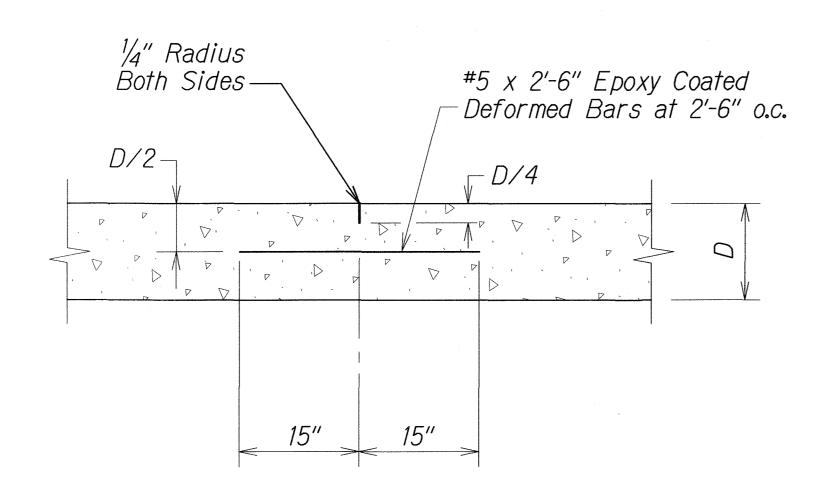
Not to Scale Date: June, 2005

SHEET No. 1 OF 1 SHEETS

15

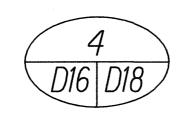


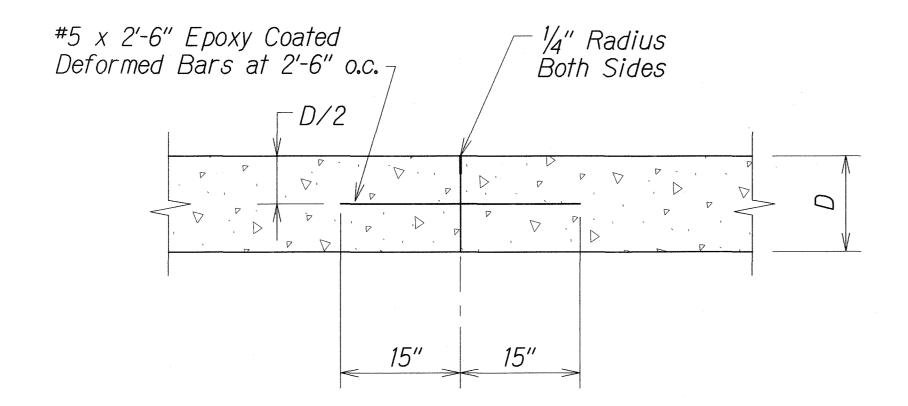
FED. ROAD DIST. NO. STATE PROJ. NO. FISCAL YEAR NO. SHEET NO. HAWAII HAW. HWY-0-01-05M 2006 16 106



LONGITUDINAL CONTRACTION JOINT

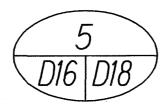
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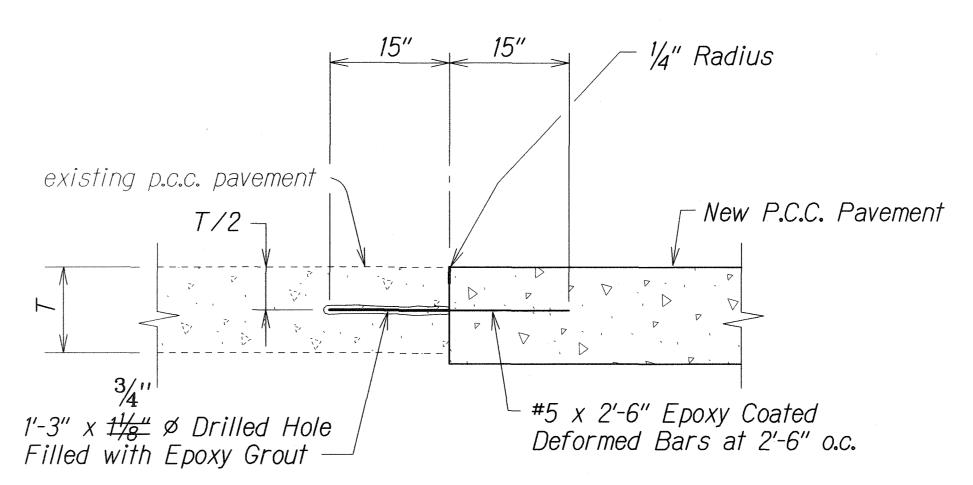




LONGITUDINAL CONSTRUCTION JOINT

Not to Scale





LONGITUDINAL CONSTRUCTION JOINT AT EXISTING P.C.C. PAVEMENT OR EXISTING CURB AND GUTTER

Not to Scale

NOTES:

- 1. Epoxy Coated Deformed Bars shall Conform to AASHTO M284/M 284/M-95 Grade, 40.
- 2. Tiebars are to be located a minimum distance of 15 inches from a Transverse Joint. Tiebars closer to the transverse Joint may interfere with Joint Movement.
- 3. The Contractor shall not damage the epoxy coating on the deformed bars in any way during shipment, handling, on placement. Damaged epoxy coated deformed bars shall be replaced at no cost to the State.
- 4. See Plan Sht. No. 19 for Joint Seal Detail.

LEGEND FOR AS-BUILT POSTINGS

100.00

Squiggly line for as-built deletion Double line for as-built deletion

Roadway

Text for as-built posting

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

REINFORCING LAYOUT AND DETAILS

AIEA ACCESS ROAD RESURFACING

MOANALUA ROAD

TO KAMEHAMEHA HIGHWAY

TO KAMEHAMEHA HIGHWA Project No. HWY-0-01-05M

Not to Scale

Date: June, 2005

SHEET No. 1 OF 1 SHEETS

AS-BUILT

sheets 16

 ORIGINAL
 SURVEY PLOTTED BY

 PLAN
 DRAWN BY

 NOTE BOOK
 TRACED BY

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 QUANTITIES BY

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