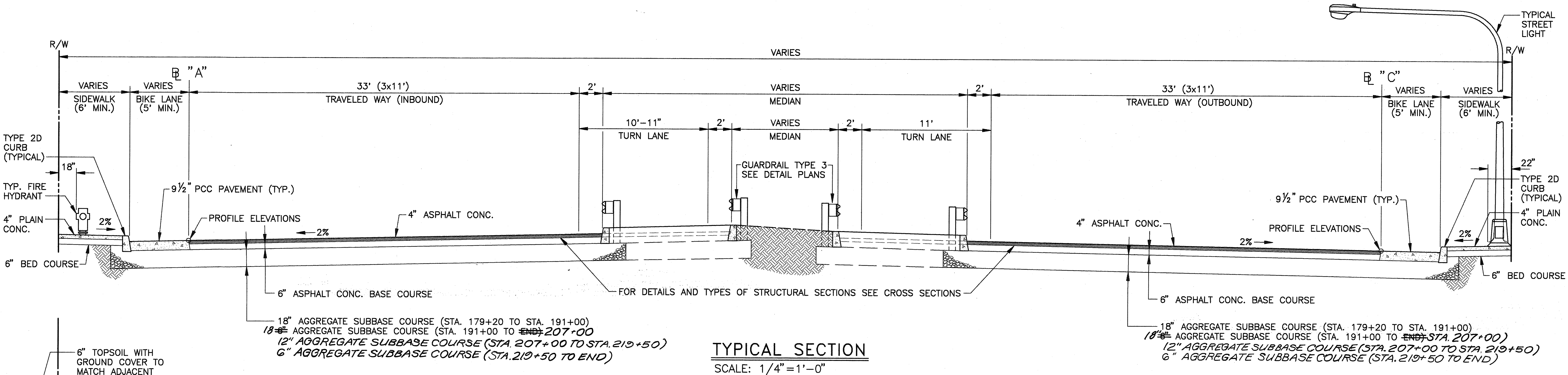


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	3	340



TYPICAL SECTION

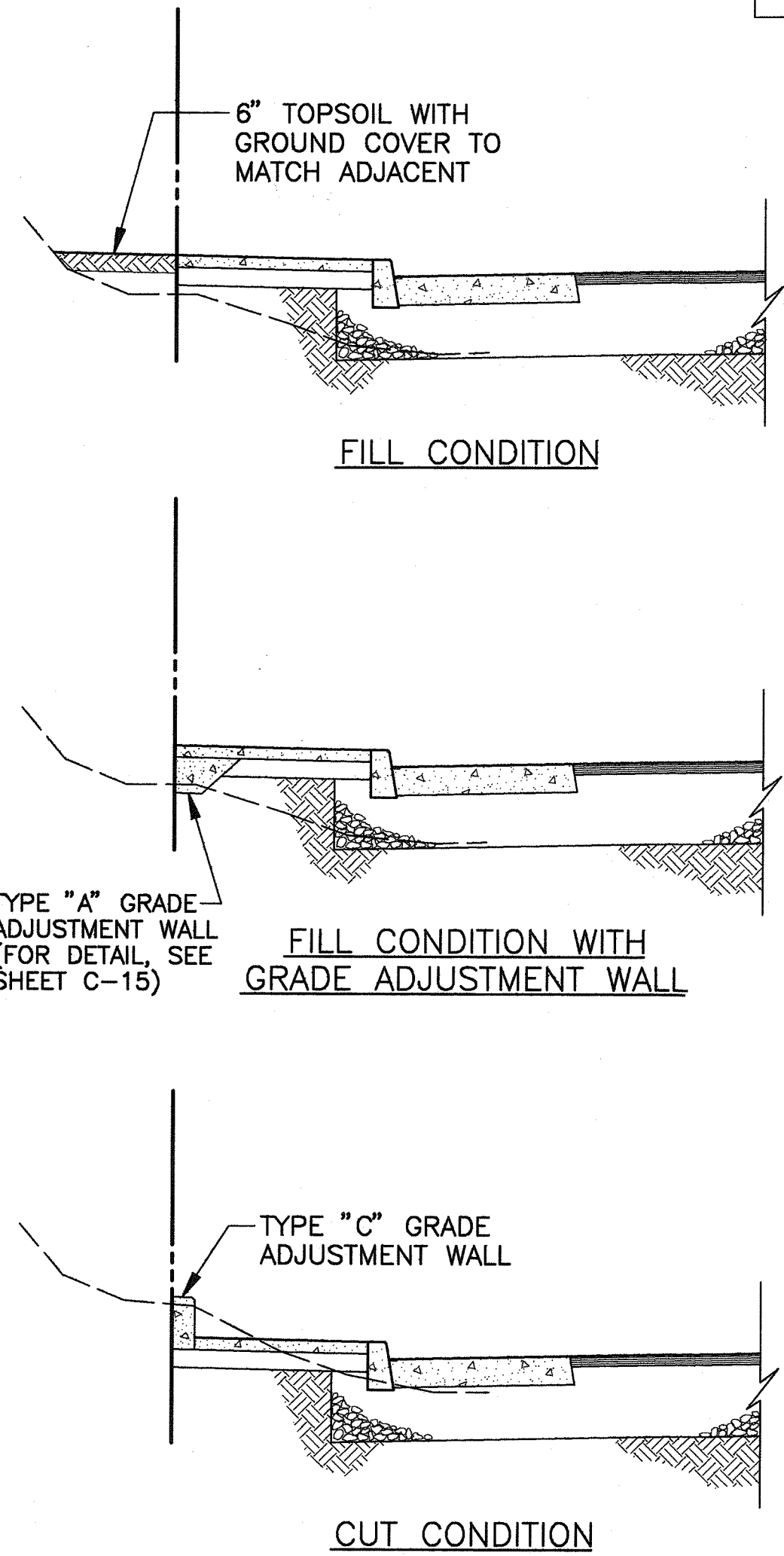
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- STRUCTURAL SECTIONS SHOWN ON THE TYPICAL SECTIONS ARE APPROXIMATE AND ARE FOR REPRESENTATION ONLY. DETAILED CONSTRUCTION SECTIONS ARE SHOWN ON THE CROSS SECTIONS.
- THE BIKE LANES INCLUDING BUS STOP PADS SHALL BE 9 1/2" THICK, 5 FT. WIDE P.C.C. PAVEMENT THROUGHOUT THE PROJECT, UNLESS NOTED OTHERWISE.
- THE 4" ASPHALT CONCRETE LAYER FOR THE NEW SECTIONS SHALL CONSIST OF THE FOLLOWING:

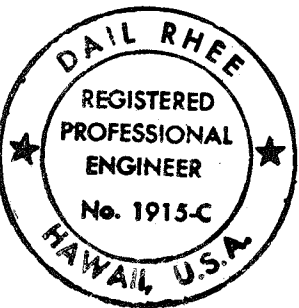
A.	2 1/2"	MIX NO. III	LEVELING COURSE
B.	1 1/2"	MIX NO. IV	SURFACE COURSE
- FOR OVERLAYS OF ASPHALT CONCRETE OVER EXISTING PAVEMENT, MIX NO. III SHALL BE USED FOR THE LEVELING COURSE AND MIX NO. IV SHALL BE USED FOR THE SURFACE COURSE. THE THICKNESS OF THE VARIOUS COURSES SHALL CONFORM TO THE FOLLOWING TABLE AND THE INSTRUCTIONS OF THE "ENGINEER":

COMPACTED THICKNESS	INDIVIDUAL LAYERS	
MIX NO.	III	IV
USED FOR:	LEVELING COURSE	SURFACE COURSE
MINIMUM	1 1/4"	1 1/2"
MAXIMUM	3" MAX/COURSE	2 1/2"
- THE ASPHALT BASE COURSE SHALL BE 6" THICK, UNLESS SHOWN OTHERWISE ON THE CROSS SECTIONS OR DIRECTED BY THE "ENGINEER".
- WHERE NECESSARY, EXISTING A.C. PAVEMENT SHALL BE COLD-PLANED TO 1 1/2" BELOW FINISH GRADE TO PERMIT INSTALLATION OF A.C. OVERLAY OF NOT LESS THAN 1 1/2" THICKNESS. SUCH WORK IS NOT LIMITED TO AREAS IDENTIFIED ON PLANS, BUT SHALL BE PERFORMED AS REQUIRED.
- EXISTING PAVEMENT DAMAGED BY EXCAVATION OR OTHER ACTIVITIES SHALL BE RESTORED.
- WHERE REGRADING IS REQUIRED OUTSIDE OF R/W, TOPSOIL SHALL BE REMOVED, STOCKPILED AND REUSED. PLACE MINIMUM 6" OF TOPSOIL WHERE REGRADING IS REQUIRED.
- EXISTING UTILITY LINES MAY ENCROACH INTO PROPOSED SUBBASE COURSE OF ROADWAY. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DAMAGING SUCH UTILITIES DURING EXCAVATION AND COMPACTION OPERATIONS. PRECAUTIONS MAY INCLUDE PLACING A TEMPORARY CUSHION OF SUITABLE EARTH MATERIAL OVER EXPOSED LINE AFTER COMPACTION OF SUBGRADE ADJACENT TO LINE. PAYMENT WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
- EXISTING BUS BENCHES, BUS SHELTER AND MAILBOXES SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE CONSIDERED INCIDENTAL TO VARIOUS CONTRACT ITEMS.
- CONTRACTOR SHALL PATCH P.C.C. SHOULDER AND SIDEWALK AFTER REMOVAL OF EXISTING UTILITY POLES.
- ALL LOOSE MATERIAL AND EXCESS DUST FROM THE TRAVELED WAY SHALL BE REMOVED BY MECHANICALLY OPERATED BROOM OR AIR PRESSURE, SUPPLEMENTED BY HAND BROOMING AT LEAST ONCE PER WEEK ESPECIALLY ALONG THE BIKE LANE, AND JUST BEFORE THE WEEKEND OR HOLIDAYS. THE PAYMENT FOR THE CLEANING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.
- FOR ROADWAY SURFACE COURSE MIX NO. IV TO BE USED INSTEAD OF MIX NO. V.



TYPICAL EDGE CONDITIONS

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



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[Signature]

1/20/93	REVISED TO SURFACE COURSE MIX NO.
DATE	REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT SECTIONS

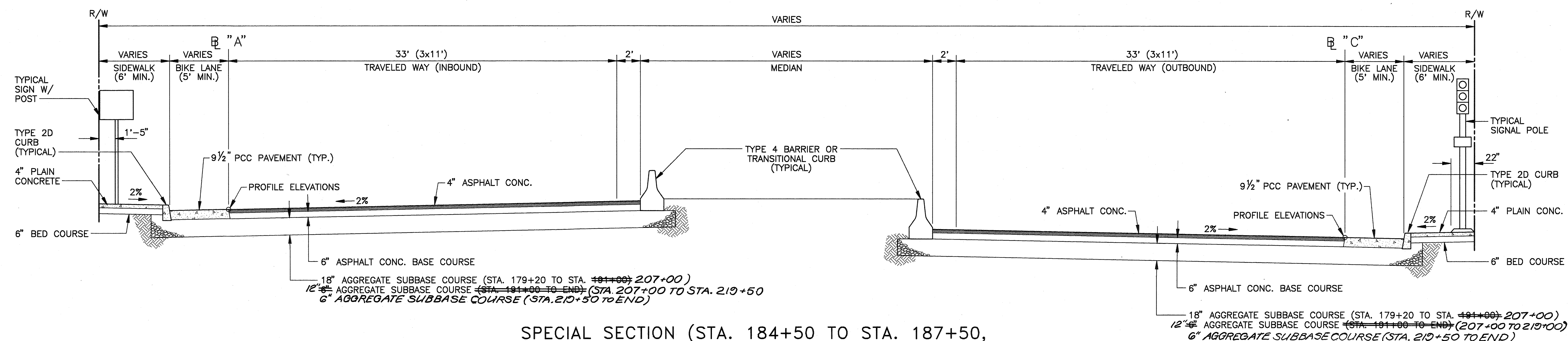
KALANIANA'OLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. NH-STP-072-1(35)

SCALE: AS NOTED DATE: 10/1/92

SHEET No. A-1 OF 18 SHEETS

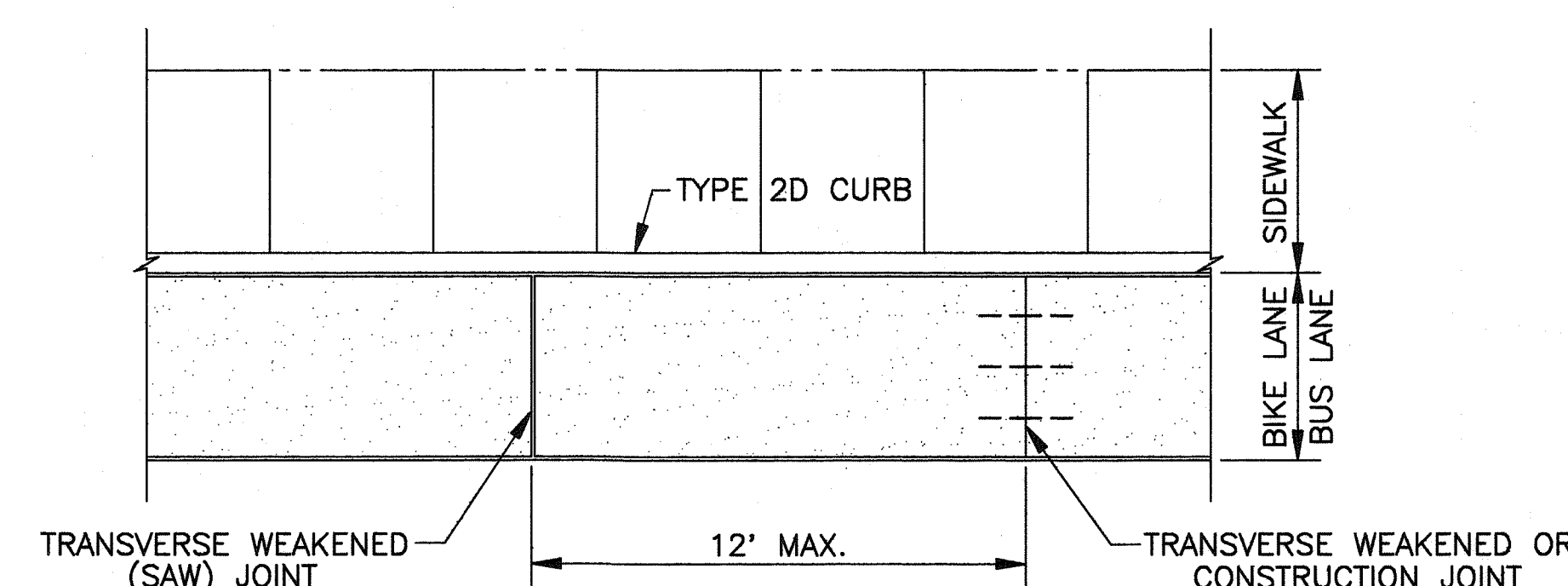
"AS-BUILT"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-072-1(35)	1993	4	340

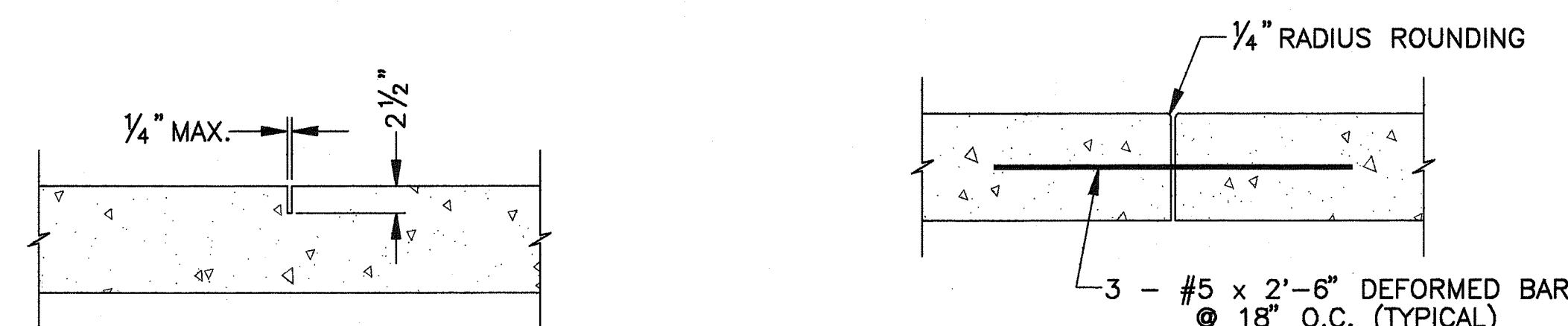


SPECIAL SECTION (STA. 184+50 TO STA. 187+50,
STA. 191+50 TO STA. 193+25, STA. 199+45 TO STA. 206+30)

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



PLAN

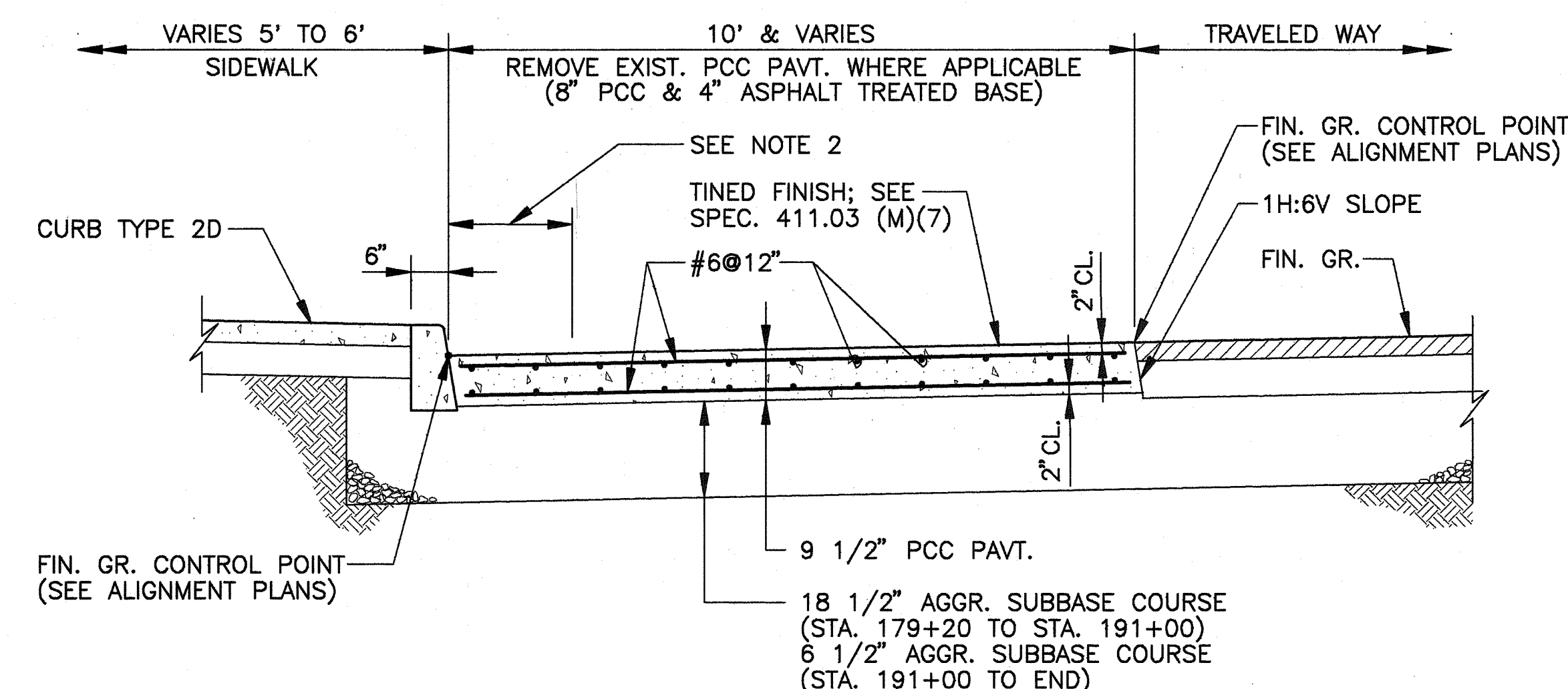


TRANSVERSE WEAKENED (SAW) JOINT

TRANSVERSE CONSTRUCTION JOINT

1. TRANSVERSE WEAKENED JOINTS SHALL BE SAWED AT 12' O.C. (MAX.), UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. TRANSVERSE CONSTRUCTION JOINTS SHALL BE LOCATED AT A MINIMUM DISTANCE OF 10' FROM THE NEAREST PLANNED TRANSVERSE WEAKENED JOINT.

TYPICAL JOINT LOCATION
AT BIKE LANE & BUS STOP



BUS-STOP NOTES:

1. PROVIDE 2" DEEP SAW CUT TRANSVERSE CONTRACTION JOINTS AT 12FT. SPACING IN PCC PAVEMENT. REBARS SHALL BE CONTINUOUS. PAYMENT WILL BE CONSIDERED INCIDENTAL TO "CONCRETE PAVEMENT FOR BUS STOP.
2. PROVIDE 15' WIDE LONGITUDINAL BROOM FINISH ALONG CURB WHERE PAVEMENT SLOPES DOWN TOWARD CURB. IN LIEU OF A CONCRETE GUTTER APRON AT DRAINAGE CATCH BASINS, THE PCC PAVT. SHALL BE EXTENDED TO THE CATCH BASIN AND SHAPED AS THE CONCRETE GUTTER APRON. SEE DRAINAGE DETAIL PLANS & STANDARD PLANS.

BUS STOP PAVEMENT

SCALE: 1/2"=1'-0"



THIS WORK WAS PREPARED BY ME
OR UNDER MY SUPERVISION.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PAVEMENT SECTIONS

KALANIANA'OLE HIGHWAY WIDENING
EAST HALEMAUMAU ST. TO KEAHOLE ST.
F.A. PROJECT NO. NH-STP-072-1(35)

SCALE: AS NOTED

DATE: 10/1/92

SHEET No. A-2 OF 18 SHEETS

"AS-BUILT"

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____