

NOTE:
All Grated Inlets adjacent to travelways shall be "Bicycle Safe" for details, see State Standard Plans.

LEGEND

- 60 --- Exist. Grade Contour
- 60 --- Finish Grade Contour
- 60 --- Proposed Contour for Drainage Grading
- 60 --- Proposed Swale
- 60 --- Proposed Ditch or Swale
- 60 --- Exist. Drainline
- 60 --- Proposed Drainline
- 60 --- Exist. AT & T Ductline
- 60 --- Abandoned Signal Cable
- 60 --- Exist. 24" Waterline
- 60 --- 16" Waterline (By Others)
- 60 --- Non Potable 12" Waterline (By Others)
- 60 --- Exist. Electric Pole
- 60 --- 12" Waterline (By Others)

13+00.14 Ramp "B" % 6
Begin approx. 178 LF
Conc. Swale @ H.P.
of Ramp "B"
Inv. = 57.1
See Typ. Sect. "Ramps A & B", sht. 3

4+43 Drainline "E"
1+70 Road "A" % 25.33
Const. Grated Drop
Inlet "E-5"
Type G1G14
Top = 65.56
Inv. = 60.56
For Det., See "State Std. Plans"

3+83 Drainline "E"
1+40 Road "A" % 25.33
Const. Grated Drop Inlet "E-4"
Type G1G14
Top = 67.22 Inv. = 59.66
For Det., See "State Standard Plans"

11+55 Ramp "A" % 18
Begin approx. 310 LF
Conc. Swale
Inv. = 62.0
See Typ. Section "Ramps A & B", sht. 3

0+67 Drainline "E"
14+56 Ramp "A" % 22
79+70 Farrington Hwy. % 56
End Conc. Gutter @ Inlet
Const. Grated Drop
Inlet "E-2"
Type G1G14
Inv. = 44.5 - Gutter
Inv. = 39.41 - 24"
Inv. = 38.60 - 24"
For Det., See "State Standard Plans"

0+00 Drainline "E"
14+56 Ramp "A" % 45
Const. CRM Outlet "E-1"
Inv. = 38.00
See Detail, sht. 31

1+26 Drainline "E"
14+00 Ramp "A" % 20
Const. Grated Drop
Inlet "E-3"
Type G1G14
Top = 48.92 - @ Inv. Swale
Inv. = 42.18 - 24"

1+85 Drainline "A"
0+00 Drainline "D"
20+83 Ramp "D" % 15
Const. CB "A-3" Type "A2"
Inv. = 42.91 - gutter opng. @ CB
Inv. = 39.15 - 24"
Inv. = 38.15 - 36"
See Dets., "State Standard Plans"

1+58 Drainline "A"
81+27 Farrington Hwy.
20+83 Ramp "D" % 15
Demolish & dispose of
exist. conc. drop intake
Expose exist. 36" CMP
Connect & install new 36" CMP
0.109" thk., 27 LF @ 2.50 %
See CMP Conn. Detail, sht. 31

Install 24" CMP (Aluminum)
0.075" thk. or RCP Cl. III
67 LF @ 1.20 %
See Profile, sht. 25

0+00 Drainline "A"
4+15 Drainline "B"
Exist. CRM Outlet "A-1"
Inv. = 33.0 ±

1+07 Drainline "A"
Exist. Drain Manhole "A-2"
to remain
Inv. = 36.2 ±

3+61 Drainline "A"
79+50 Farrington Hwy.
Const. CB "A-4"
Type "B-2"
Inv. = 39.94
For Det., See "State Std. Plans"

75+00 Farrington Hwy. % 56
End Conc. Swale
Begin Conc. Gutter
Inv. = 53.0
See Typ. Section, sht. 4

Install 24" RCP Cl. V
176 LF @ 0.50 %
See Profile, sht. 25

71+00 Farrington Hwy.
Begin Conc. Gutter
Inv. = 47.9
See Typ. Sect. "Ramp D"
Transition, sht. 3

20+07.50 Ramp "C"
End Swale "Ba-1"
Inv. = 96.40

5+24 Drainline "A"
21+90 Ramp "C" % 5.33
Const. Grated Drop
Inlet "A-6"
Type G1G14
Top = 75.92
Inv. = 70.72
For Det., See "State Std. Plans"

End Transition
Elev. = 76.89

14+05 Ramp "D"
End Conc. Swale Trans.
Begin Conc. Swale
Inv. = 78.03
For Det., See "Typ. Sect."
Ramp "D", sht. 3

Const. Swale "Ba-1"
866 LF
See Typical Section, sht. 29

Daylight from Typ. Section
Conc. Ditch "Bb-2"

20+07.50 Ramp "C"
End Conc. Gutter @ H.P.
Const. 10 ft. Transition
to finish grade
Inv. = 78.40
For Det., See "Typ. Sect."
Ramp "C", sht. 3

18+50 Ramp "C"
End Conc. Ditch "Bb-2"
Inv. = 130.02
Begin unlined transition
to daylight point

Const. Conc. Ditch "Bb-2"
503 LF
See Typical Section, sht. 29

Mauka Cut-off
Ditch

Proposed
State R/W

TRUE NORTH
Scale: 1" = 40'

19+70 End Conc. Swale
Begin Conc. Swale
Transition
Inv. = 78.12
For Det., See "Typ. Sect."
Ramp "C", sht. 3

5+30 End
Ditch "Bb-1"
Inv. = 145.1
See Det.,
sht. 29

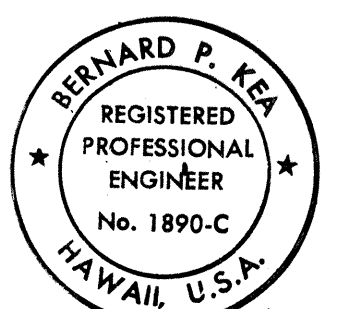
20+00 End Conc. Swale
Transition
Elev. = 78.90

Install 24" RCP Cl. IV
103 LF @ 0.50 %
See Profile, sht. 25

1+03 Drainline "D"
82+25 Farrington Hwy. % 52
Begin 375 LF Conc. Gutter
Const. Grated Drop Inlet "D-1"
Type G1G16
Top = 44.31 @ Inv. Gutter
Inv. = 39.67
For Conc. Gutter, see Typ. Section, sht. 4
For Inlet Det., See "State Std. Plans"

19+25 Ramp "D" % 21
Begin Conc. Swale Transition
Inv. = 48.51

82+31 Farrington Hwy. % 52
End Conc. Swale Transition
@ Conc. Gutter
Inv. = 44.37

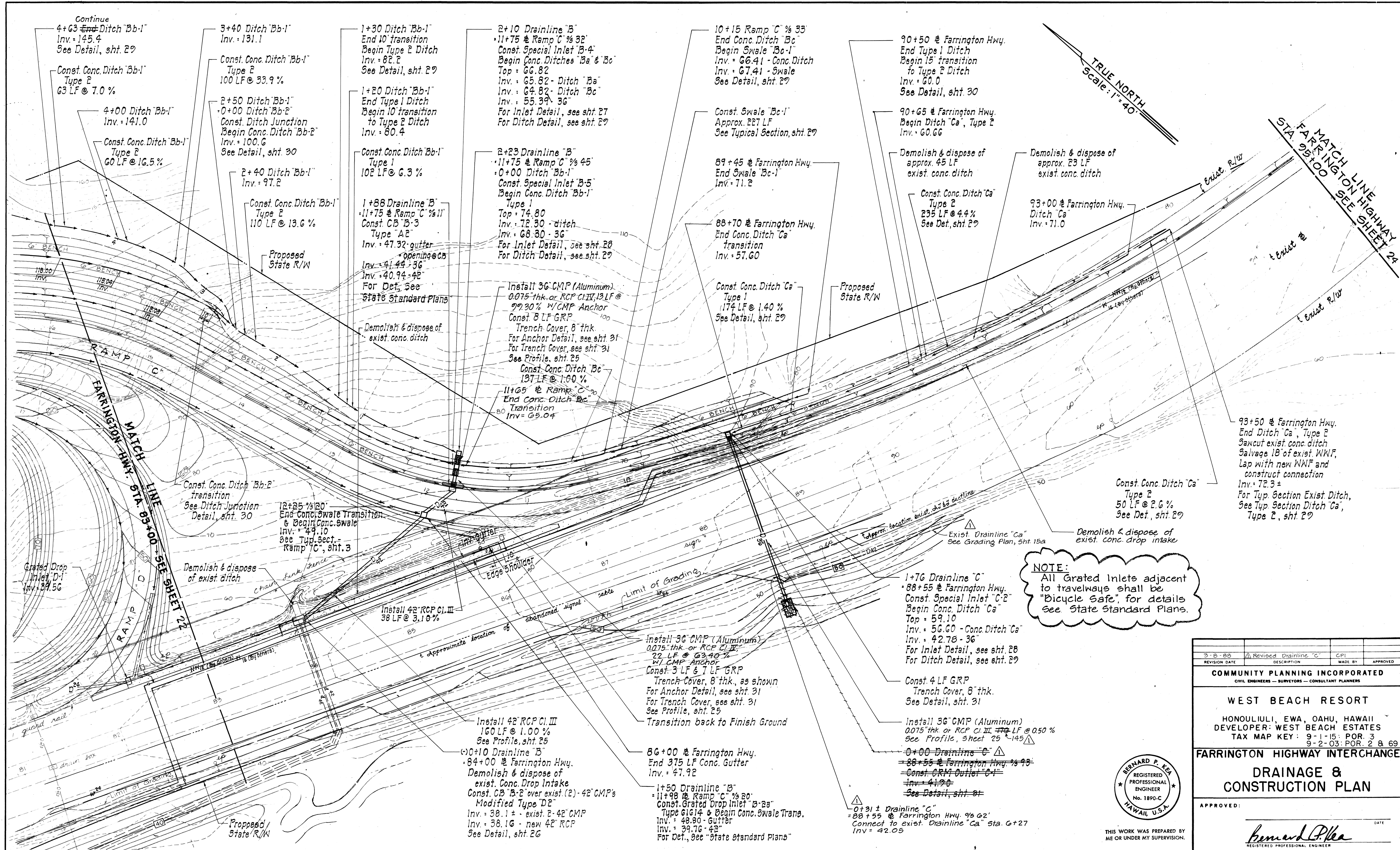


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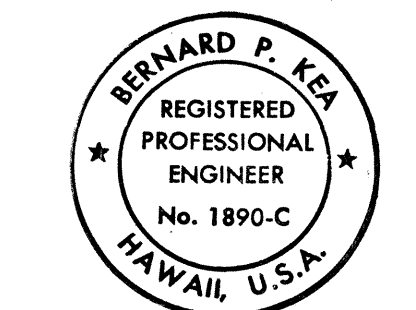
REVISION DATE	DESCRIPTION	MADE BY	APPROVED
COMMUNITY PLANNING INCORPORATED CIVIL ENGINEERS - SURVEYORS - CONSULTANT PLANNERS			
WEST BEACH RESORT HONOLULU, EWA, OAHU, HAWAII DEVELOPER: WEST BEACH ESTATES TAX MAP KEY: 9-1-15: POR. 3 9-2-03: POR. 2 & 69			
FARRINGTON HIGHWAY INTERCHANGE DRAINAGE & CONSTRUCTION PLAN			
APPROVED: <i>Bernard P. Kwa</i> REGISTERED PROFESSIONAL ENGINEER			DATE

RECORD DRAWINGS

SHEET 22 OF 22 SHEETS



NOTE:
All Grated Inlets adjacent to travelways shall be "Bicycle Safe", for details See State Standard Plans.



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3-8-88	Revised Drainline "C"	CPI	
REVISION DATE	DESCRIPTION	MADE BY	APPROVED
COMMUNITY PLANNING INCORPORATED CIVIL ENGINEERS - SURVEYORS - CONSULTANT PLANNERS			
WEST BEACH RESORT HONOLULU, EWA, OAHU, HAWAII DEVELOPER: WEST BEACH ESTATES TAX MAP KEY: 9-1-15: POR. 3 9-2-03: POR. 2 & 69			
FARRINGTON HIGHWAY INTERCHANGE DRAINAGE & CONSTRUCTION PLAN			
APPROVED:		DATE:	
REGISTERED PROFESSIONAL ENGINEER			

RECORD DRAWINGS

NOTE:

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TRUE NORTH
Scale: 1"=40'

98+32±
Const. Grated Drop Inlet "G"
Type G1214
Top = 77.00 @ Inv. Gutter
Inv = 75.02 ±
For Conc. Gutter, See
Typical Section, Sht. 3

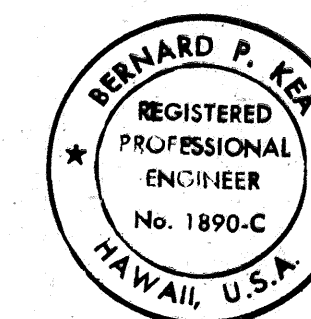
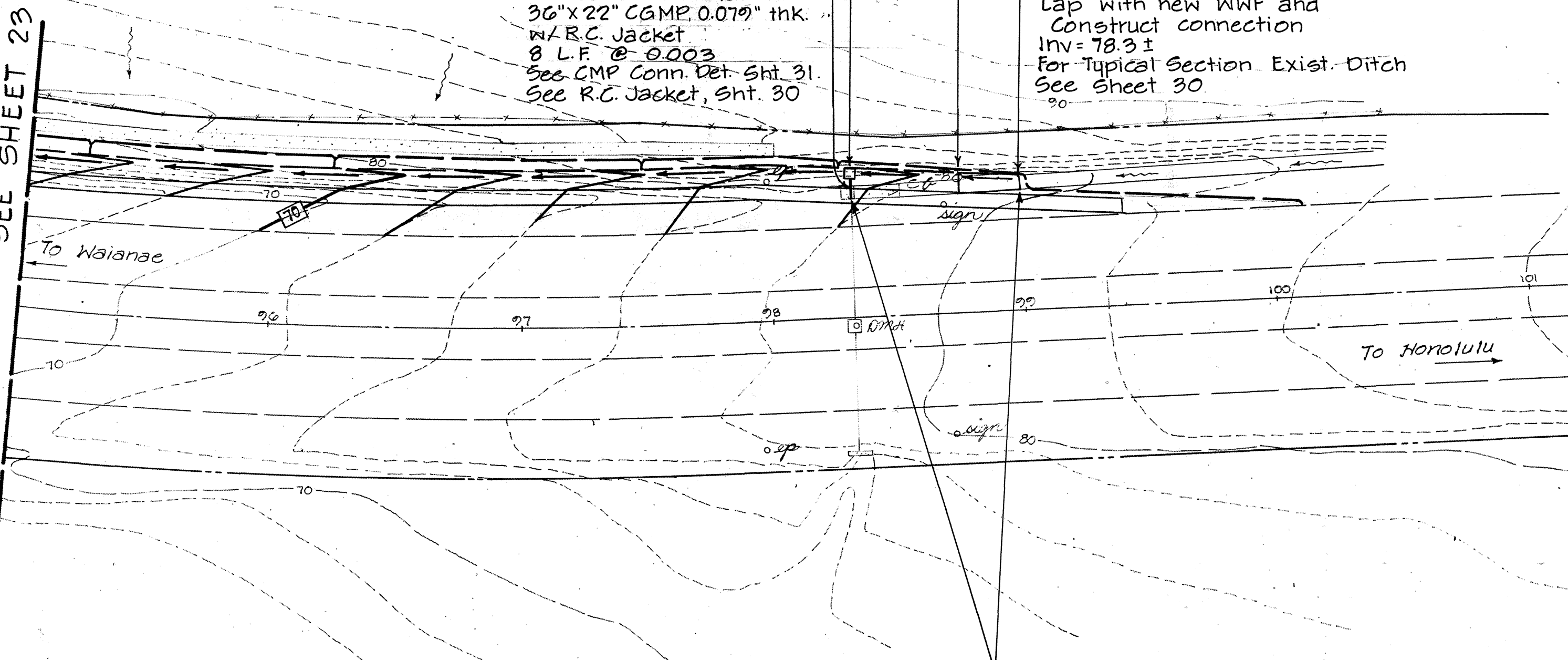
98+32±
Demolish and Dispose
of exist. conc. drop
intake. Inv = 75.0 ±
Expose exist. 36"x22" CAMP
Connect and Install New
36"x22" CAMP 0.079" thk.
w/ R.C. Jacket
8 L.F. @ 0.003
See CAMP Conn. Det. Sht. 31.
See R.C. Jacket, Sht. 30

98+75
End Conc. Road Gutter
(See Typ. Section, Sht. 3)
Begin Transition to Exist. Conc. Ditch
Inv = 78.0 ±
See Detail, Sht. 30

99+00
End Transition
Sawcut Exist. Conc. Ditch
Salvage 18" of exist. WWF
Lap with new WWF and
Construct connection
Inv = 78.3 ±
For Typical Section Exist. Ditch
See Sheet 30

98+32± to 99+00
Demolish and Remove
Exist. Conc. Ditch

MATCH LINE
FARRINGTON HIGHWAY
STA. 95+00 SEE SHEET 23



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REVISION DATE	DESCRIPTION	MADE BY	APPROVED
COMMUNITY PLANNING INCORPORATED CIVIL ENGINEERS — SURVEYORS — CONSULTANT PLANNERS			
WEST BEACH RESORT HONOLULU, EWA, OAHU, HAWAII DEVELOPER: WEST BEACH ESTATES TAX MAP KEY: 9-1-15: POR. 3 9-2-03: POR. 2 & 69			
FARRINGTON HIGHWAY INTERCHANGE DRAINAGE & CONSTRUCTION PLAN			
APPROVED: <i>Bernard P. Kea</i> REGISTERED PROFESSIONAL ENGINEER			

RECORD DRAWINGS

SHEET 24 OF 22 SHEETS

FILE	POCKET	FOLDER	NO.