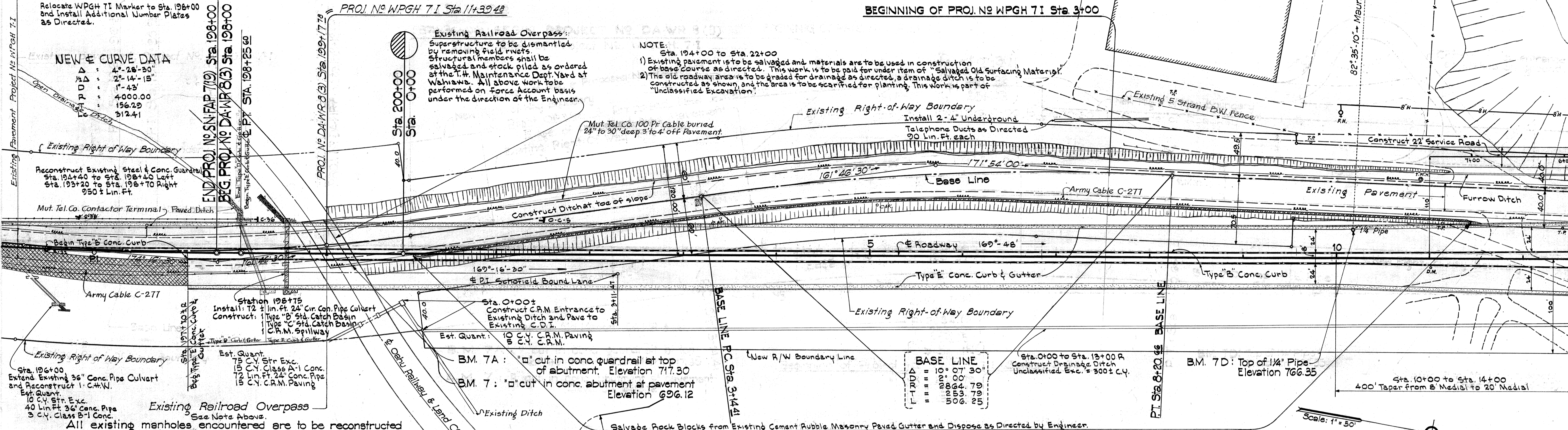
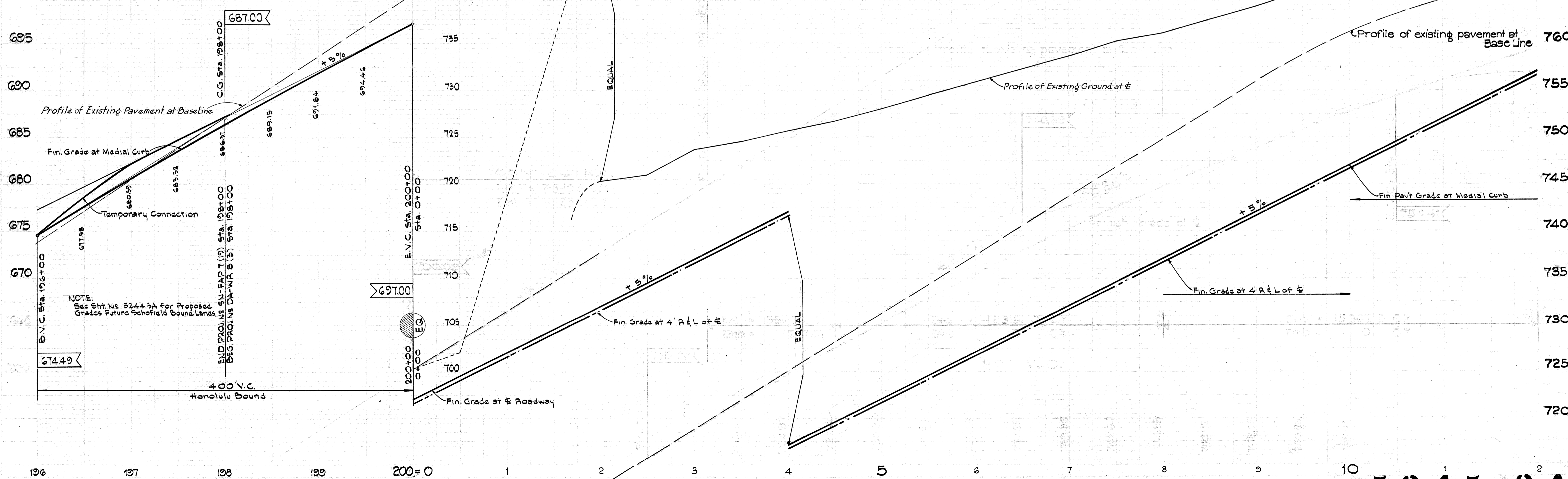


U. S. M I L I T A R Y R E S E R V A T I O N

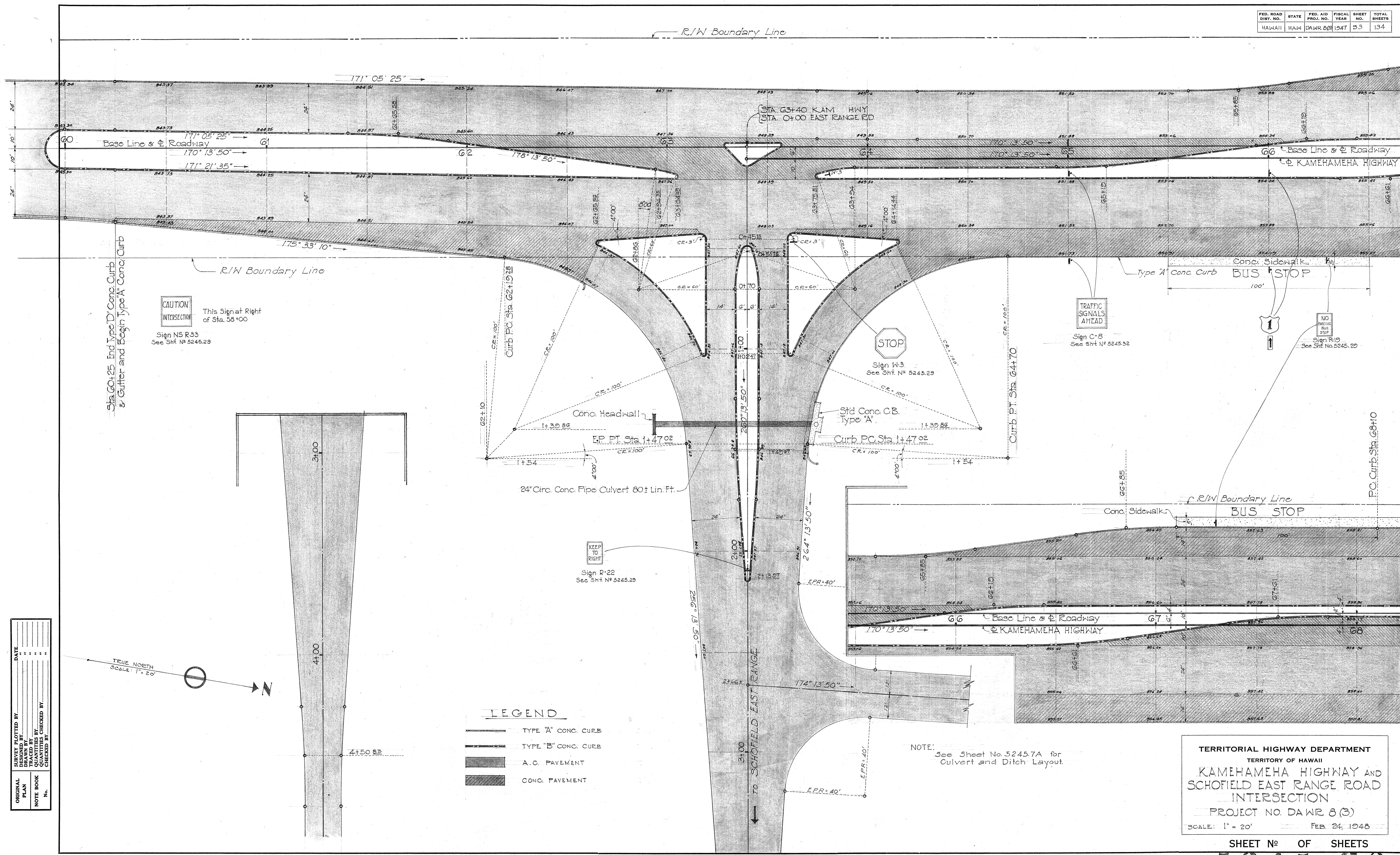
| FED. ROAD DIST. NO. | DATE | PROJECT | SURCAL. YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|------------|------------|--------------|-----------|--------------|
| HAWAII | APR 8 1947 | DAWR 8 (3) | 1947 | 3 | 124 |



NOTE: Azimuths Origin at Gov't. Survey Trig. Station "Waipio."



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW | DAWR 8(3) | 1947 | 83 | 134 |



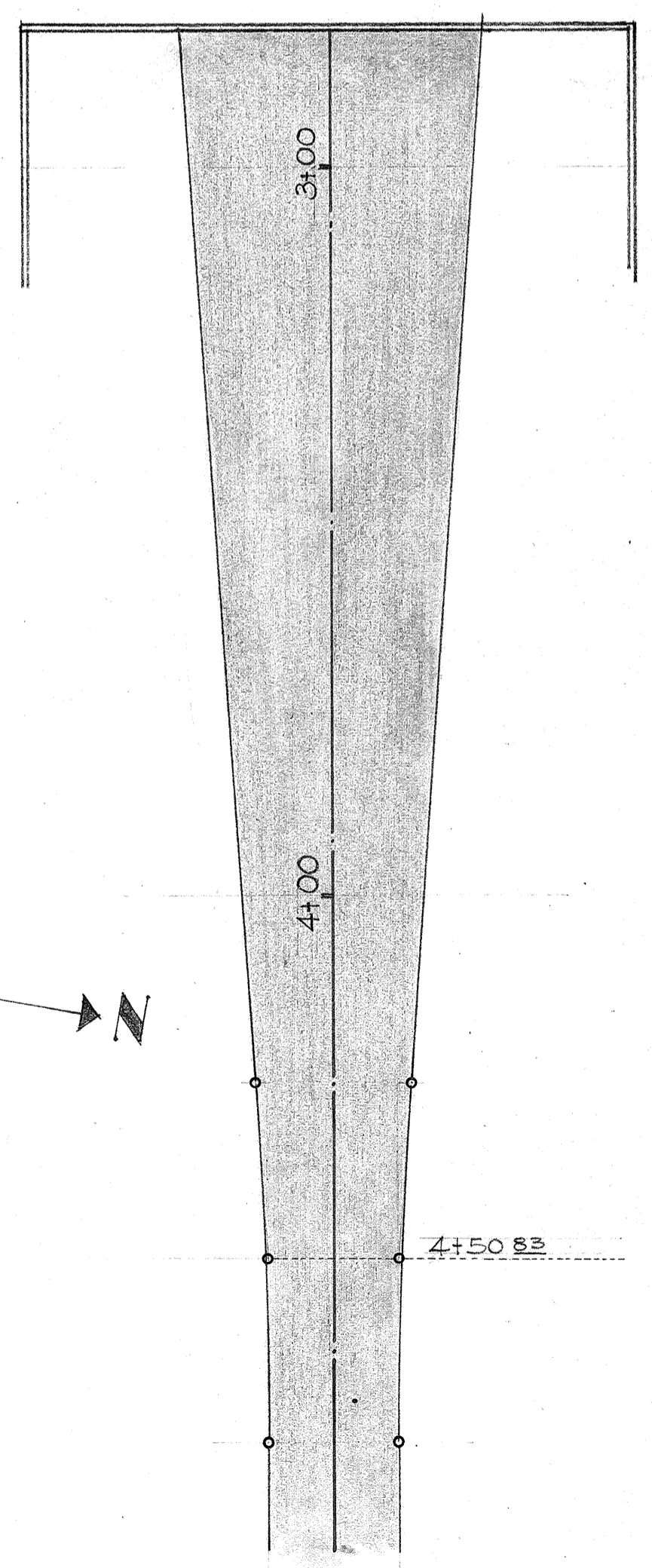
CAUTION
INTERSECTION
This Sign at Right of Sta. 58+00
Sign N5 R33
See Sht. No. 5245.29

TRAFFIC SIGNALS AHEAD
Sign C-8
See Sht. No. 5245.29

NO PARKING BUS STOP
Sign R19
See Sht. No. 5245.29

STOP
Sign W-3
See Sht. No. 5245.29

KEEP TO RIGHT
Sign R-22
See Sht. No. 5245.29

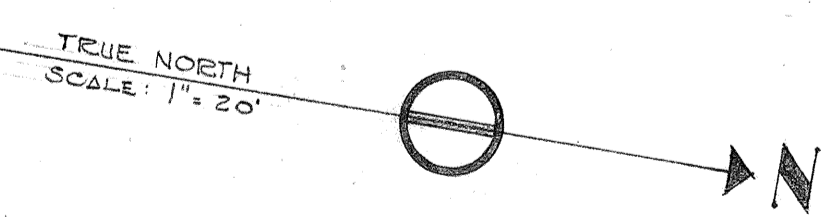


- LEGEND**
- TYPE "A" CONC. CURB
 - TYPE "B" CONC. CURB
 - A.C. PAVEMENT
 - CONC. PAVEMENT

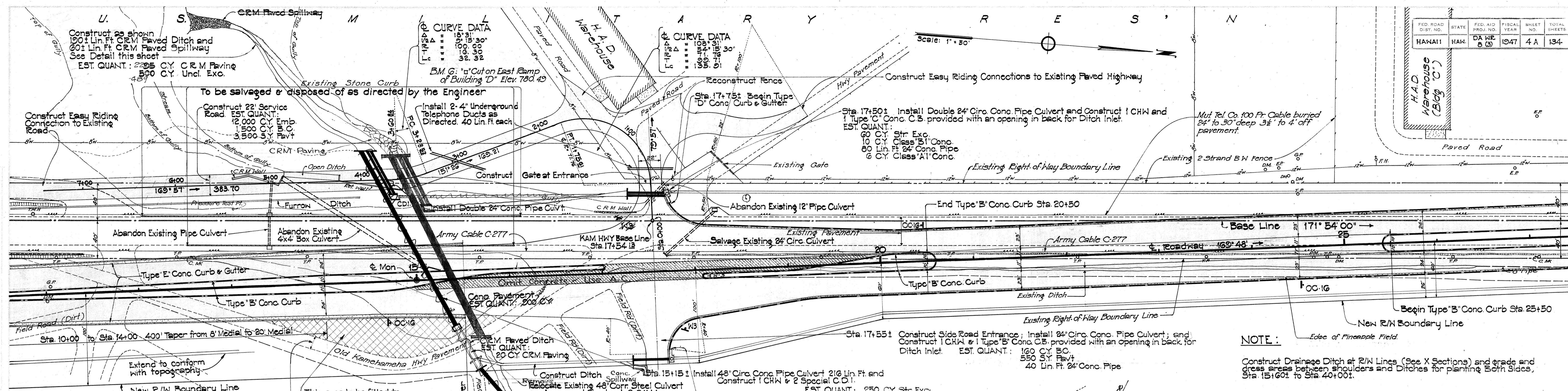
NOTE:
See Sheet No. 5245.7A for
Culvert and Ditch Layout.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
**KAMEHAMEHA HIGHWAY AND
SCHOFIELD EAST RANGE ROAD
INTERSECTION**
PROJECT NO. DAWR 8 (3)
SCALE: 1" = 20' FEB. 24, 1948

| | |
|-----------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY | |
| DRAWN BY | |
| CHECKED BY | |
| NOTE BOOK | |
| QUANTITIES CHECKED BY | |
| NO. | |

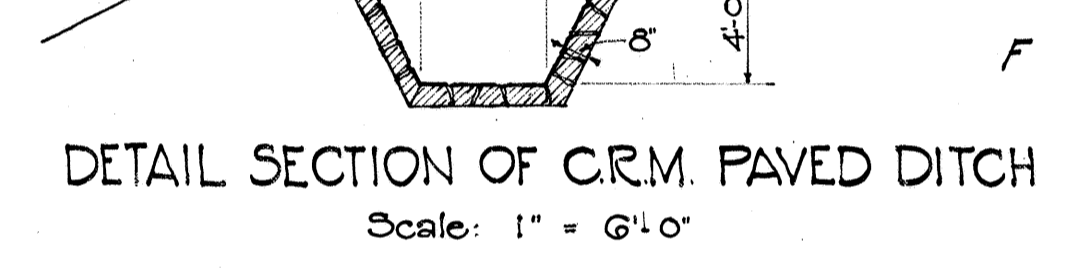
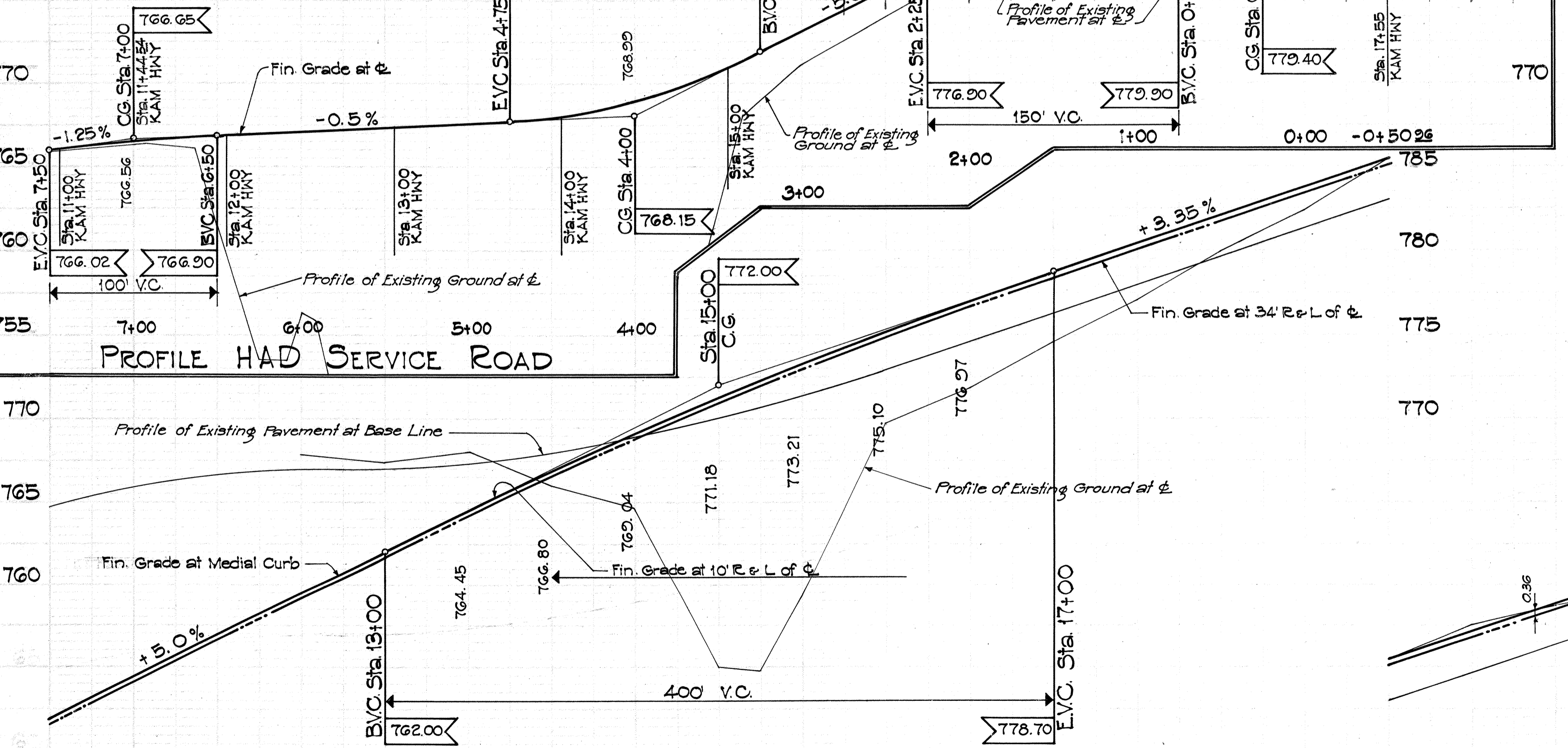


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | DA HE 8 (3) | 1947 | 4 A | 134 |



NOTE:
 1 See Proceeding Sheet regarding Drainage Ditch
 2 It is planned to use Gulch Area west of Proposed Service Road for disposal of Excess Excavation as directed or similar Gulch Area in Naikakalaua if found more advantageous.

NOTE/ Azimuth Origin at Gov't Survey Trig. Station "Waipio"



NOTE:
 Construct Drainage Ditch at R/W Lines (See X Sections) and grade and dress areas between shoulders and Ditches for planting Both Sides, Sta. 15+00 to Sta. 40+00.
 It is estimated that 32,000 C.Y. of top soil to be selected and used on finished shoulder and Medial surfaces must be stock piled, but this shall only be done when and as ordered by the Engineer as provided by the Specifications.

Exc. = 4,174.1 C.Y.
 Emb. = 371.3 C.Y.

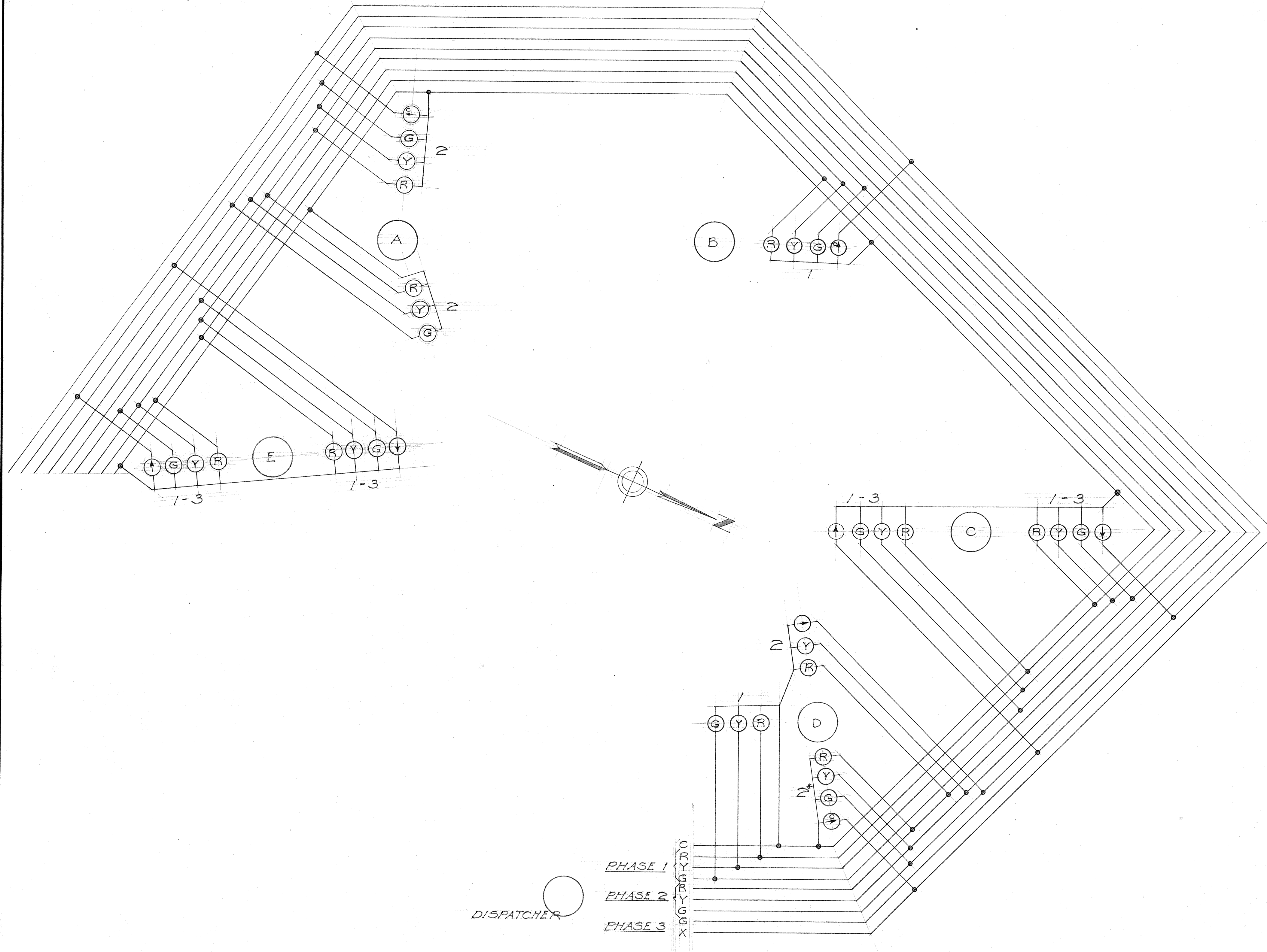
Exc. = 127.8 C.Y.
 Emb. = 8,138.8 C.Y.

Exc. = 144.5 C.Y.
 Emb. = 5,929.6 C.Y.

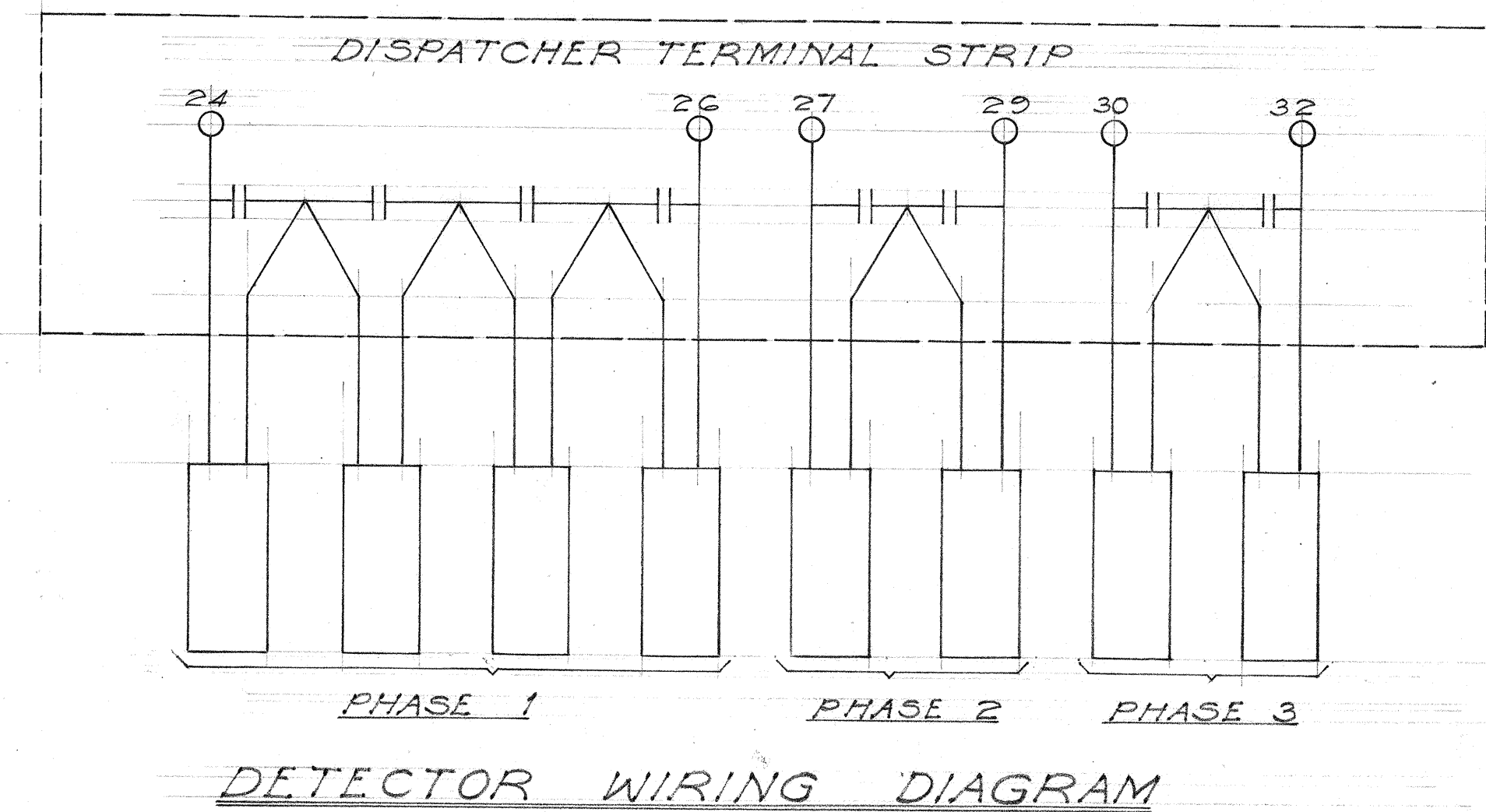
5245.4A

5245.4

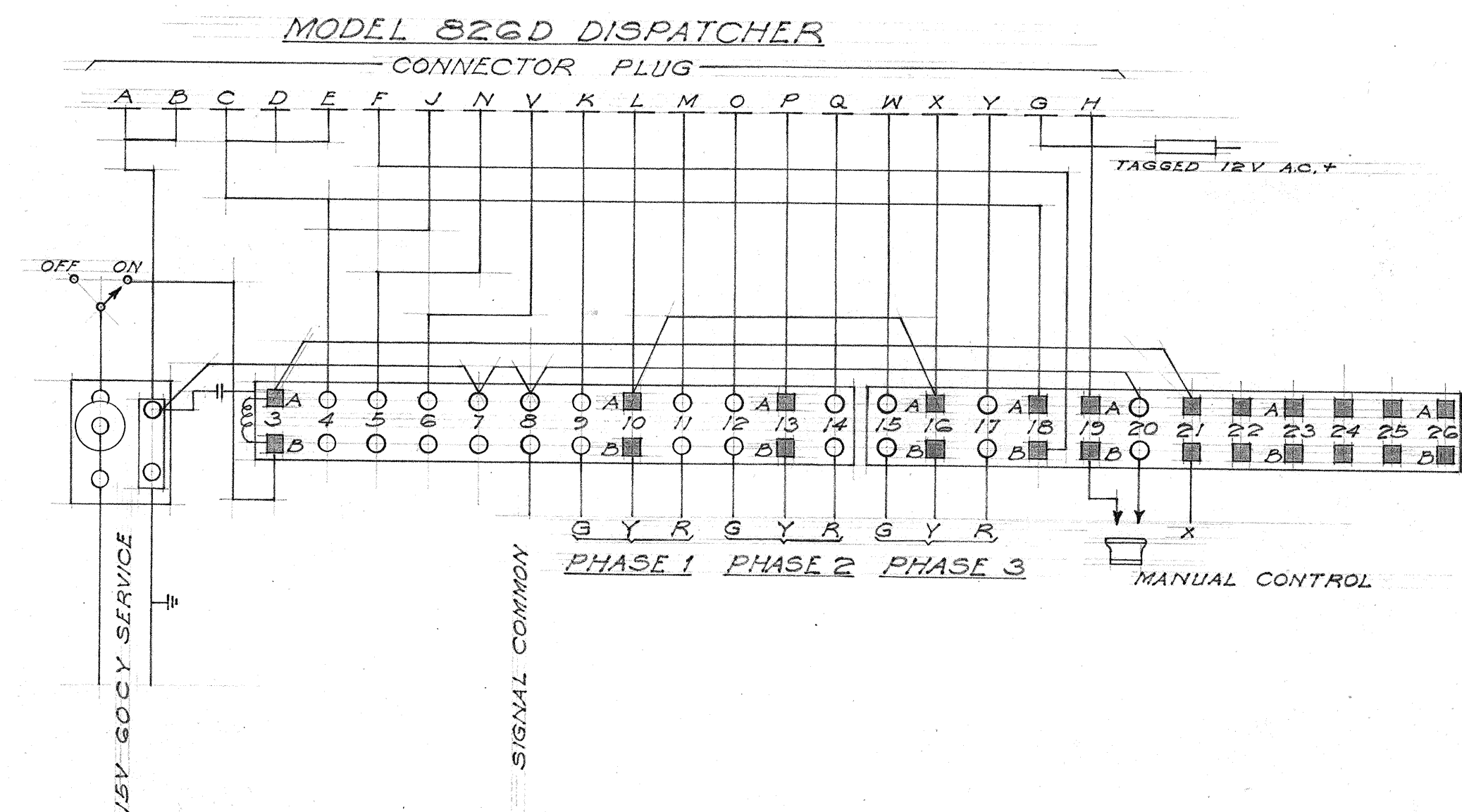
5245.4



GEOGRAPHICAL WIRING DIAGRAM



DETECTOR WIRING DIAGRAM

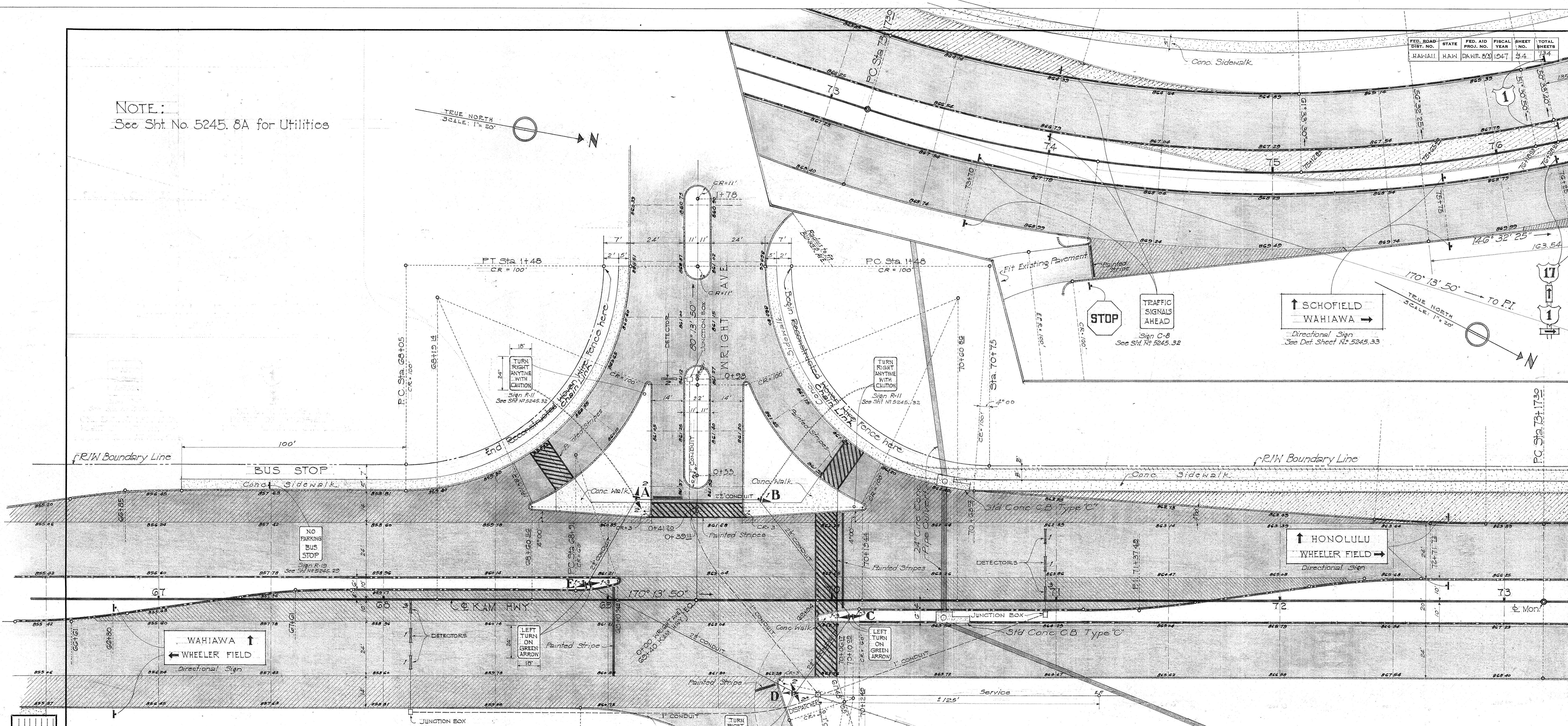
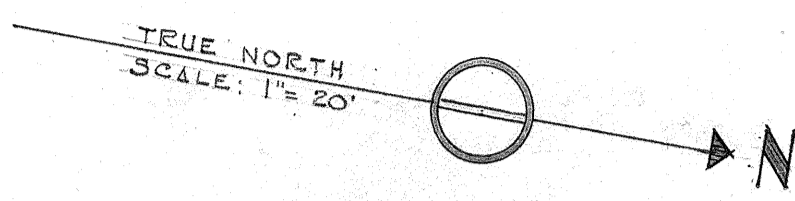


DISPATCHER TERMINAL STRIP

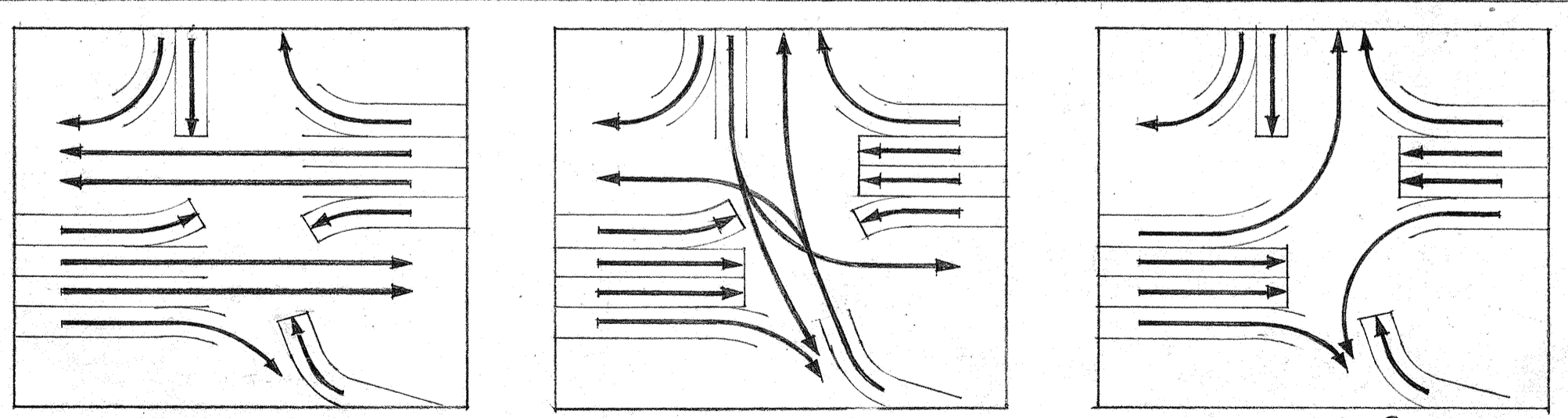
SURVEY PLOTTED BY _____ DATE _____
 DESIGNED BY _____
 TRACED BY _____
 QUANTITIES BY _____
 CHECKED BY _____
 ORIGINAL PLAN No. _____
 NOTE BOOK No. _____

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 INSTALLATION OF
 TRAFFIC CONTROL SIGNALS
 AT INTERSECTION OF
 KAMEHAMEHA HIGHWAY
 AND WRIGHT AVENUE
 FEDERAL AID PROJECT No. DA-WR 8(3)
 Scale: Not to scale Aug. 1948

NOTE:
See Sht. No. 5245. 8A for Utilities



DATE: _____
 SURVEY PLOTTED BY: _____
 DESIGNED BY: _____
 DRAWN BY: _____
 QUANTITIES CHECKED BY: _____
 CHECKED BY: _____
 ORIGINAL PLAN NOTE BOOK No. _____



PHASE DIAGRAM NOT TO SCALE

SIGNAL DETAILS

| | |
|--------------------------------|---|
| SIGNAL A: 1-3 face signal head | DISPATCHER: 3-phase Model 826 D |
| SIGNAL B: 1-4 face " " " " " " | TRAFFIC DETECTOR: Magnetic type, non-directional. |
| SIGNAL C: 2-4 face " " " " " " | |
| SIGNAL D: 1-3 face " " " " " " | |
| 1-3 face " " " " " " | |
| 1-4 face " " " " " " | |
| SIGNAL E: 2-4 face " " " " " " | |

E.P. CURVE DATA
 PC: 170+22.45
 PT: 170+59.55
 PI: 170+41.00
 CR: 114.50
 Δ: 25° 20' 45"

NOTE:
FOR DRAINAGE DETAIL SEE SHT. NO. 5245. 8A.

LEGEND

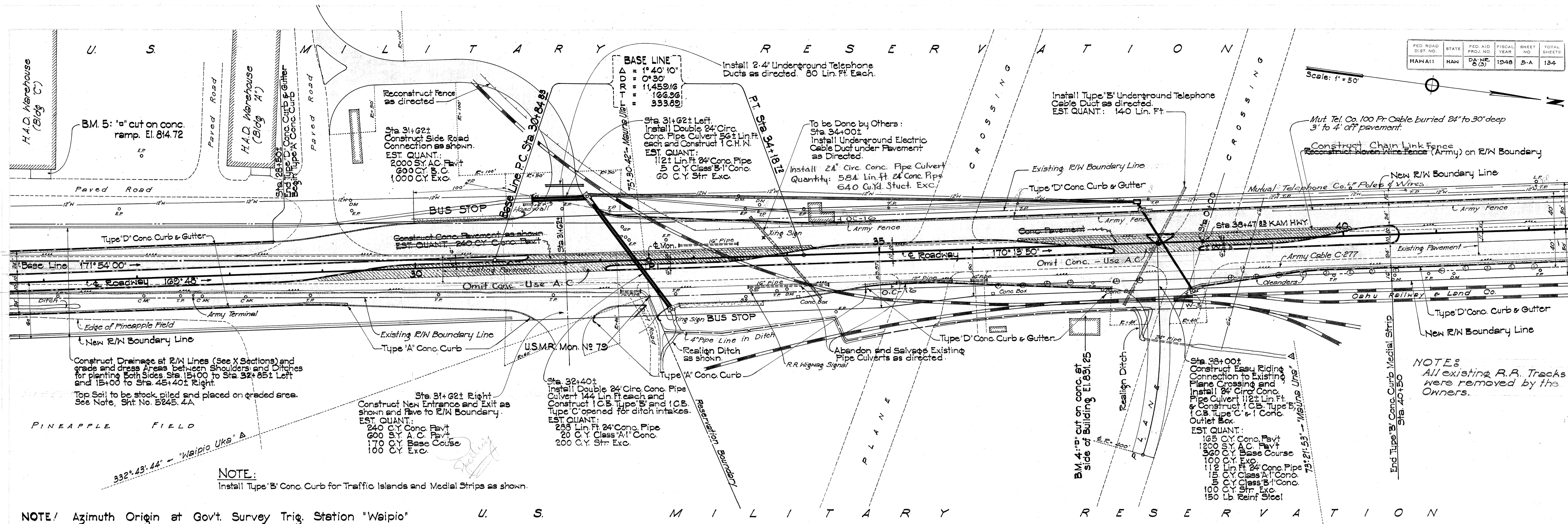
- TYPE "A" CONC. CURB
- TYPE "B" CONC. CURB
- A.C. PAVEMENT
- CONC. PAVEMENT
- TYPE "D" CONC. CURB & GUTTER

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 KAMEHAMEHA HIGHWAY
 &
 WRIGHT AVE. INTERSECTION
 PROJECT NO. DAWR 8(3)
 SCALE: AS NOTED FEB. 24, 1948

SHEET NO. OF SHEETS

5245.84

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | DA-NE (8) | 1948 | 5-A | 134 |



BM. 5: "a" cut on conc. ramp. El. 814.72

Install 2-4" Underground Telephone Ducts as directed. 80 Lin. Ft. Each.

Install Type "B" Underground Telephone Cable Duct as directed. EST. QUANT.: 140 Lin. Ft.

Mut. Tel. Co. 100 Pr. Cable buried 24" to 30" deep 3' to 4' off pavement.

Construct Chain Link Fence (Army) on R/W Boundary

Construct Drainage at R/W Lines (See X Sections) and grade and dress Areas between Shoulders and Ditches for planting Both Sides Sta. 15+00 to Sta. 32+85 Left and 15+00 to Sta. 45+40 Right.

Top Soil to be stock piled and placed on graded area. See Note, Sht. No. 5245.4A

Sta. 31+62 Right Construct New Entrance and Exit as shown and Pave to R/W Boundary. EST. QUANT.: 240 C.Y. Conc. Pavt 600 C.Y. A.C. Pavt 170 C.Y. Base Course 100 C.Y. Exc.

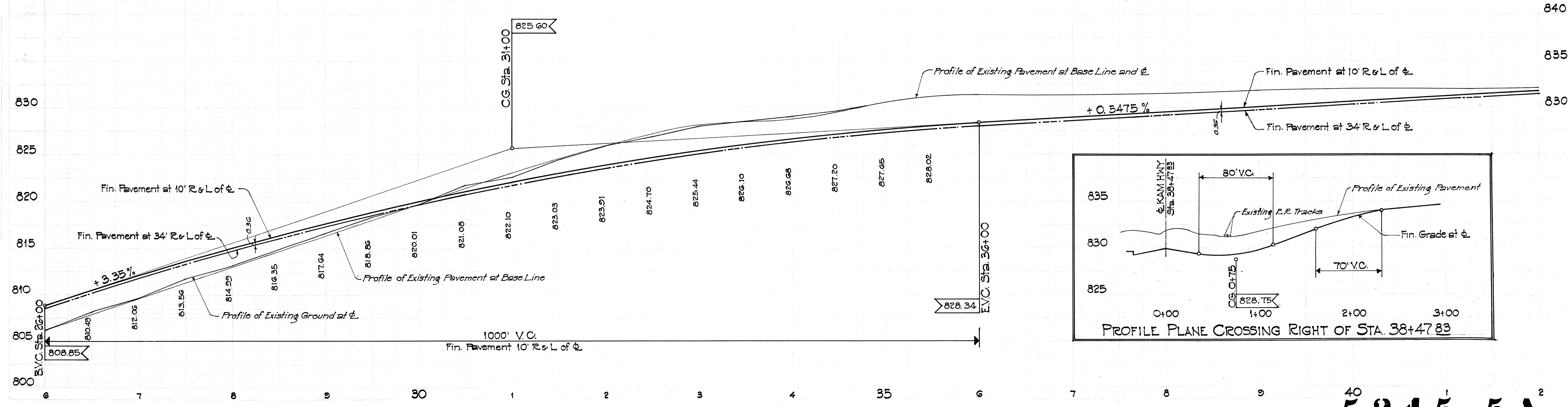
Sta. 32+40 Install Double 24" Circ. Conc. Pipe Culvert 144 Lin. Ft. each and Construct 1 C.B. Type "B" and 1 C.B. Type "C" opened for ditch intakes. EST. QUANT.: 255 Lin. Ft. 24" Conc. Pipe 20 C.Y. Class "A" Conc. 200 C.Y. Str. Exc.

Sta. 38+00 Construct Easy Riding Connection to Existing Plane Crossing and Install 24" Circ. Conc. Pipe Culvert 112 Lin. Ft. & Construct 1 C.B. Type "B" 1 C.B. Type "C" & 1 Conc. Outlet Box. EST. QUANT.: 165 C.Y. Conc. Pavt 1200 C.Y. A.C. Pavt 3600 C.Y. Base Course 1000 C.Y. Exc. 1100 C.Y. 24" Conc. Pipe 150 C.Y. Class "A" Conc. 100 C.Y. Class "B" Conc. 100 C.Y. Str. Exc. 150 Lb. Reinf. Steel

NOTES: All existing R.R. Tracks were removed by the Owners.

NOTE: Install Type "B" Conc. Curb for Traffic Islands and Medial Strips as shown.

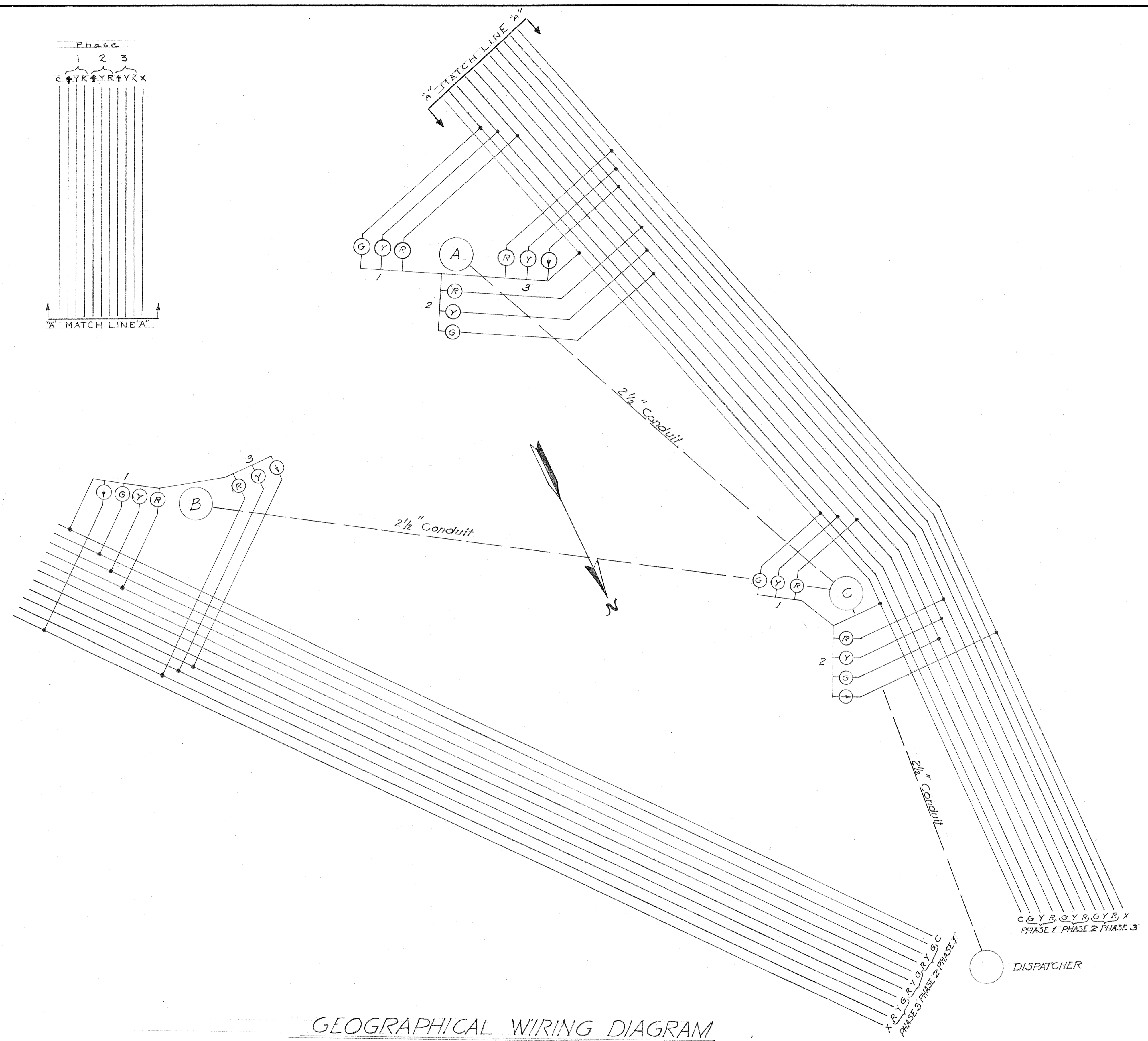
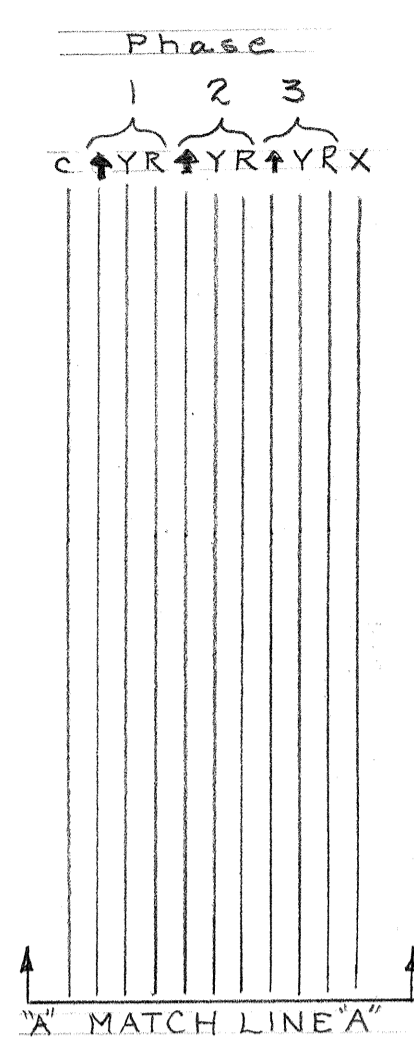
NOTE: Azimuth Origin at Gov't. Survey Trig. Station "Waipio"



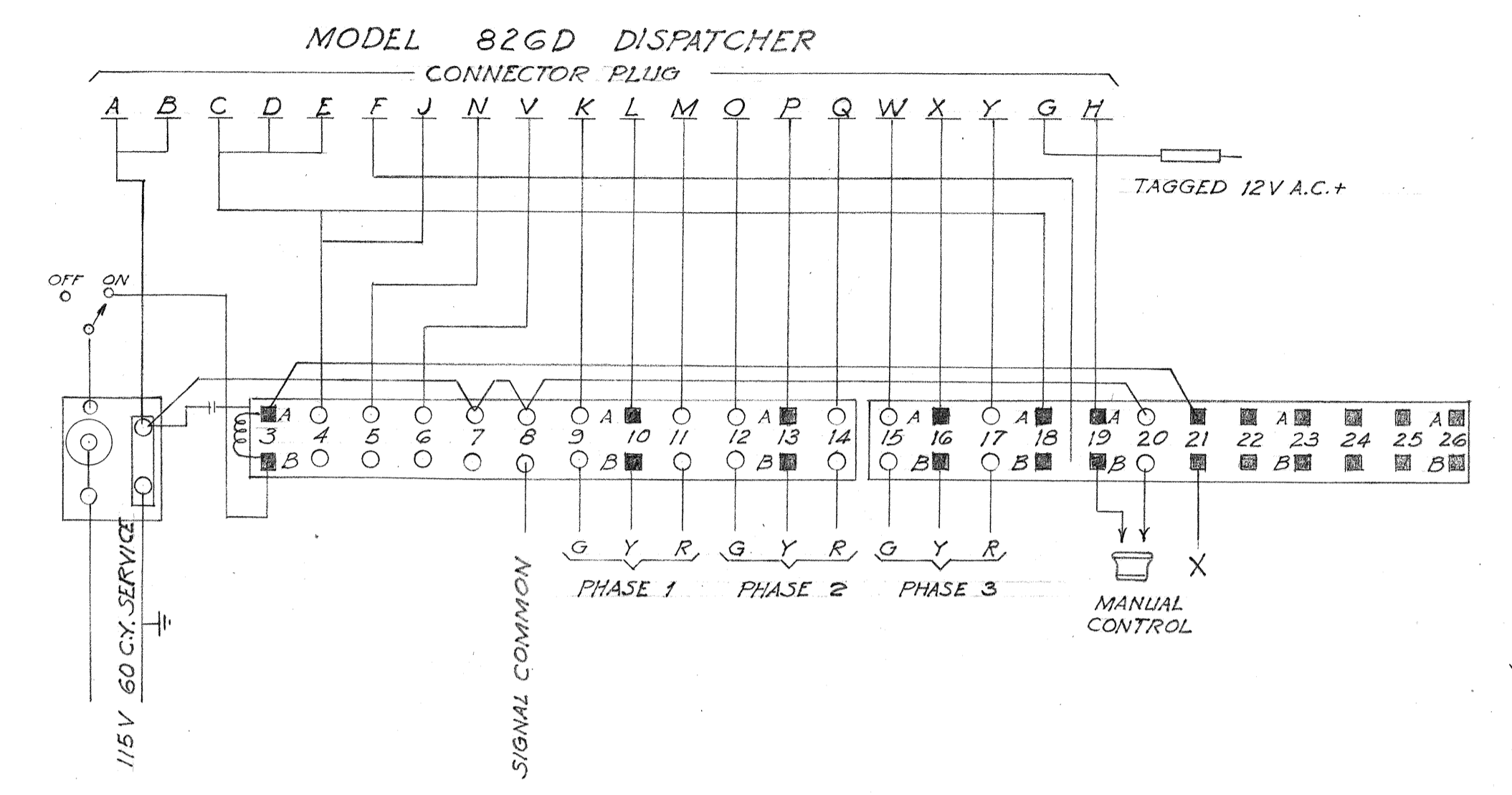
5245.5A

5245.5

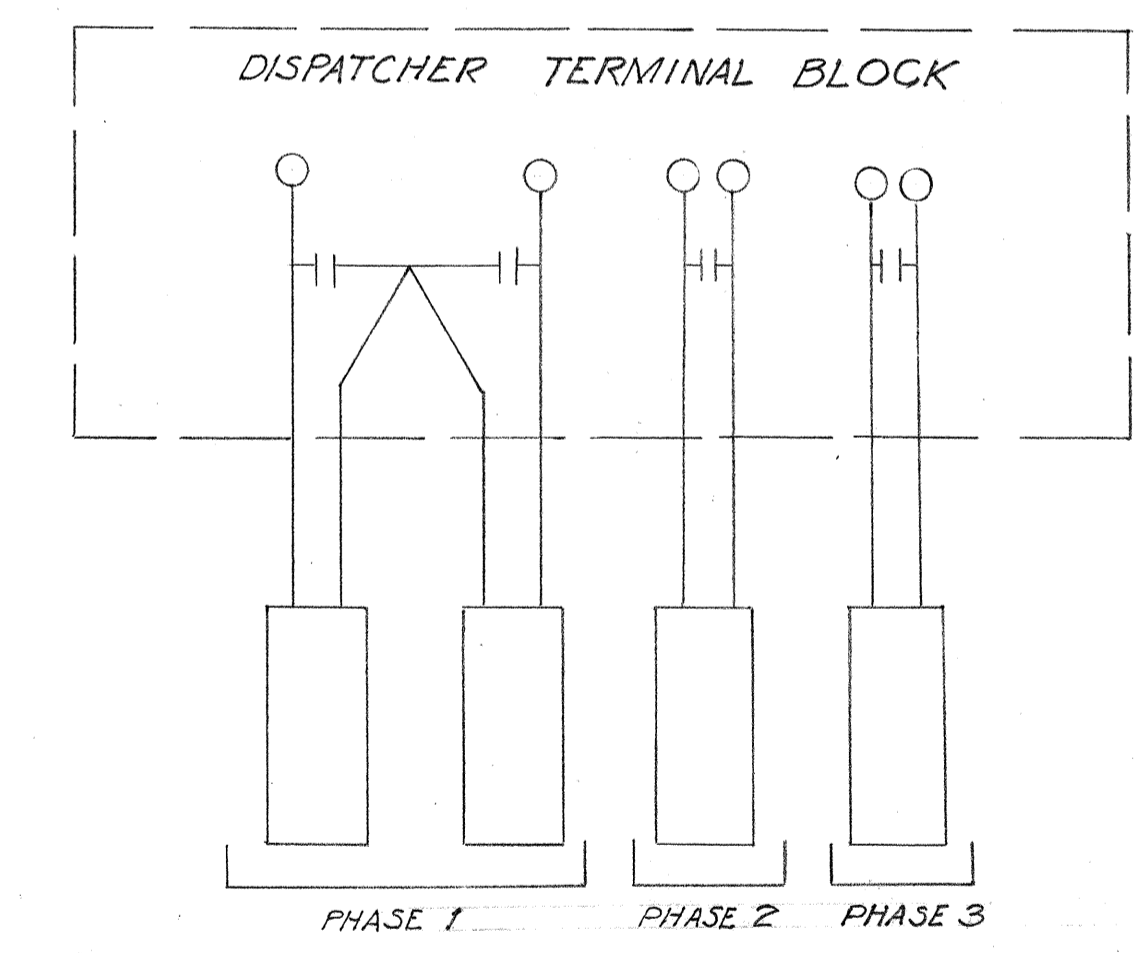
5245.5



GEOGRAPHICAL WIRING DIAGRAM



DISPATCHER TERMINAL STRIP
WILSON BRIDGE INTERSECTION



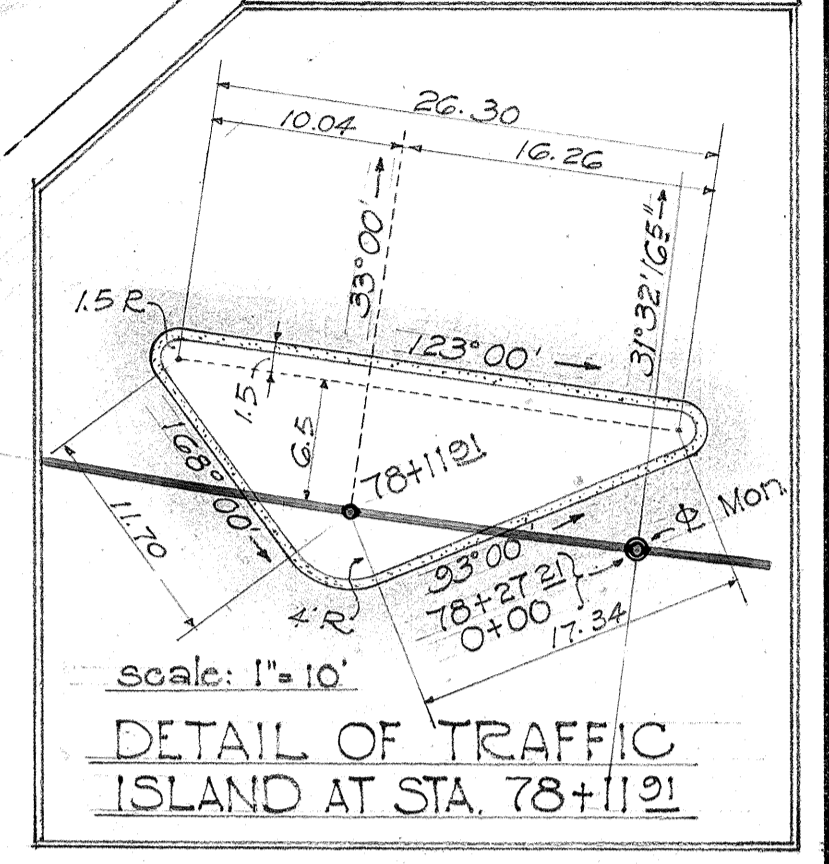
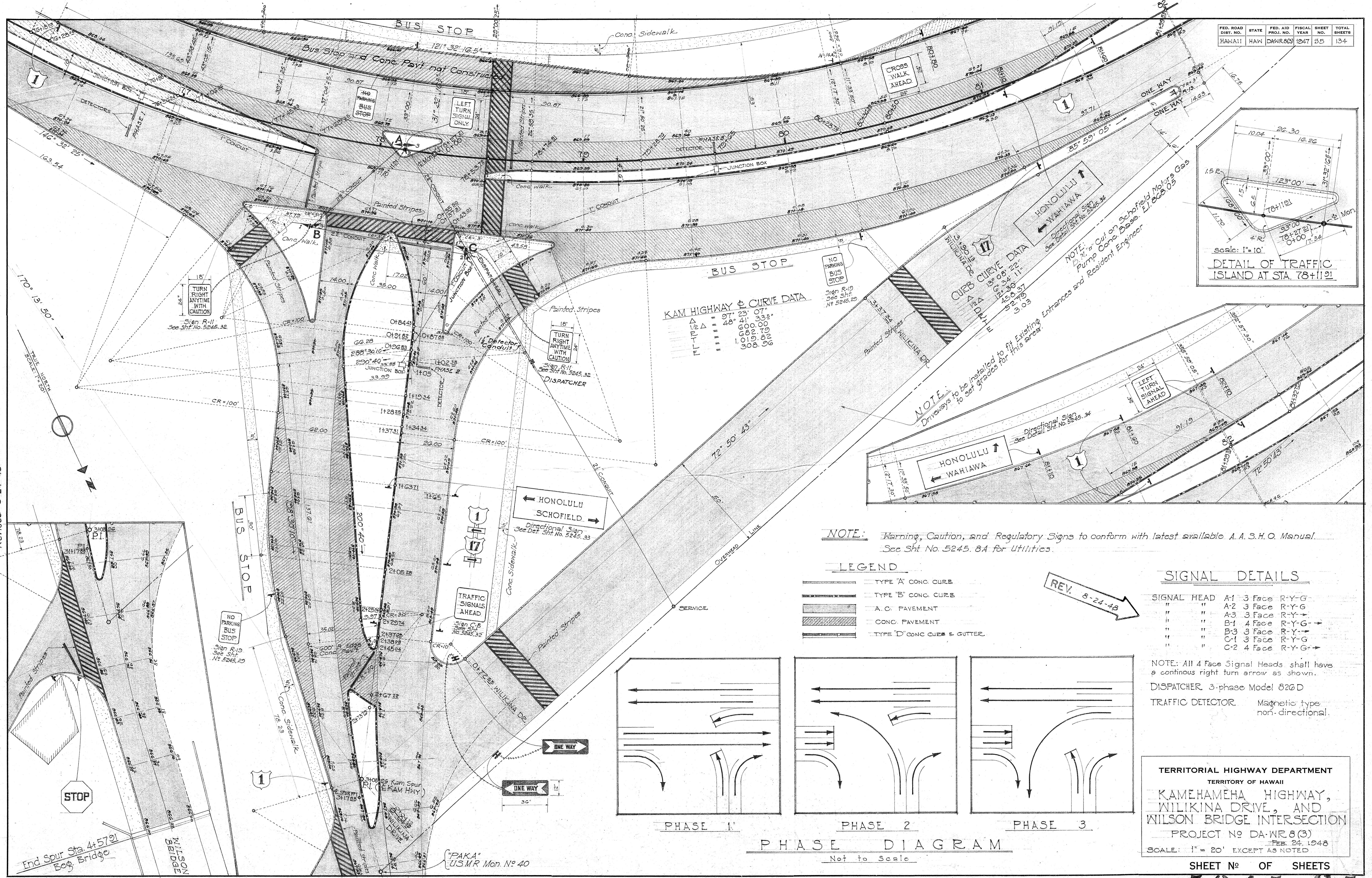
DETECTOR WIRING DIAGRAM
WILSON BRIDGE

DESIGNED BY: C. C. CULLEY
DRAWN BY: T. L. LEE
CHECKED BY: ...
DATE: 8-23-48

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
INSTALLATION OF
TRAFFIC CONTROL SIGNALS
AT
WILSON BRIDGE INTERSECTION
SCHOFIELD ACCESS ROAD PROJ. NO. DA-WRB(3)
AUGUST 1948

SHEET No. OF SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW | DAWR 8(3) | 1948 | 55 | 134 |



NOTE: Warning, Caution, and Regulatory Signs to conform with latest available A.A.S.H.O. Manual. See Sht No. 5245.8A for Utilities.

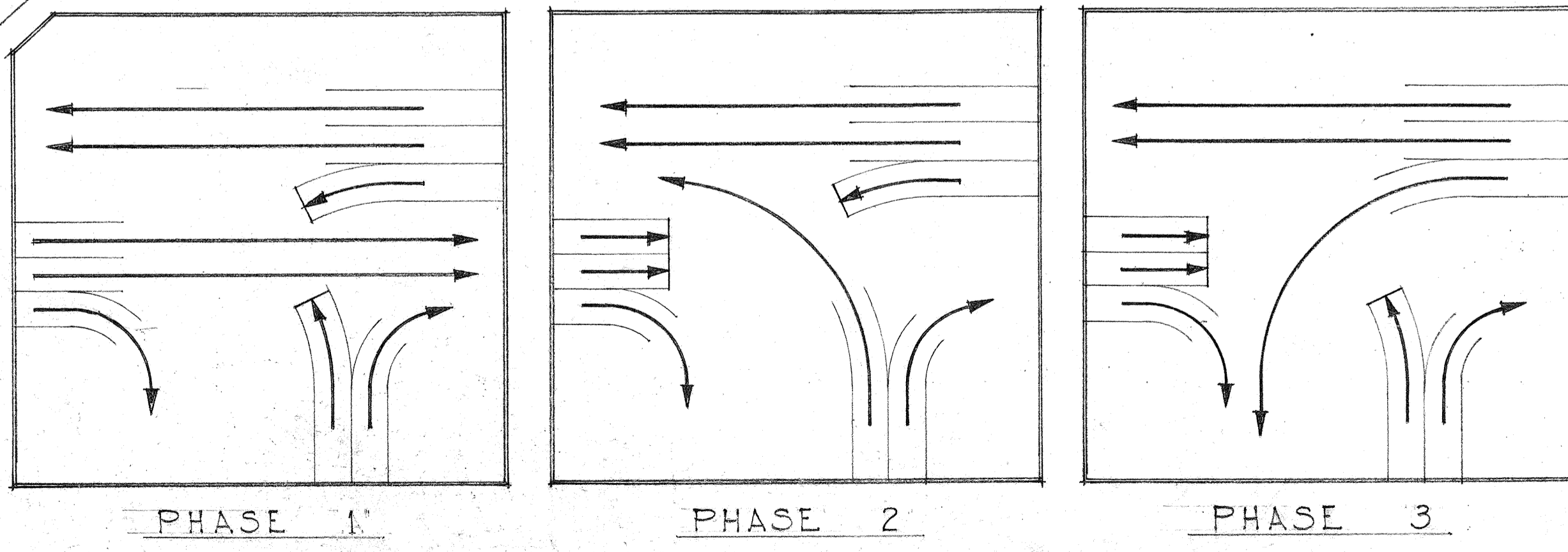
LEGEND

- TYPE 'A' CONC. CURB
- TYPE 'B' CONC. CURB
- A.O. PAVEMENT
- CONC. PAVEMENT
- TYPE 'D' CONC. CURB & GUTTER

SIGNAL DETAILS

| | | | |
|-------------|-----|--------|-------|
| SIGNAL HEAD | A-1 | 3 Face | R-Y-G |
| " | A-2 | 3 Face | R-Y-G |
| " | A-3 | 3 Face | R-Y |
| " | B-1 | 4 Face | R-Y-G |
| " | B-3 | 3 Face | R-Y |
| " | C-1 | 3 Face | R-Y-G |
| " | C-2 | 4 Face | R-Y-G |

NOTE: All 4 Face Signal Heads shall have a continuous right turn arrow as shown.
DISPATCHER, 3-phase Model 820D
TRAFFIC DETECTOR, Magnetic type non-directional.



PHASE DIAGRAM
Not to Scale

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAMEHAMEHA HIGHWAY,
WILIKINA DRIVE, AND
WILSON BRIDGE INTERSECTION
PROJECT NO DA-WR 8(3)
FEB. 24, 1948
SCALE: 1" = 20' EXCEPT AS NOTED

SHEET No OF SHEETS

5245.55

| | |
|-----------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY | |
| DRAWN BY | |
| QUANTITIES BY | |
| NOTE BOOK | |
| QUANTITIES CHECKED BY | |
| NO. | |

Revised 8-24-48

REV. 8-24-48

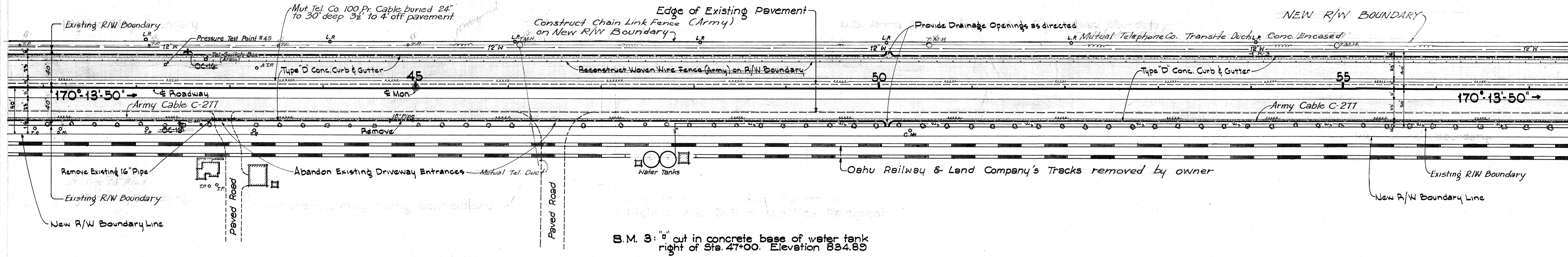
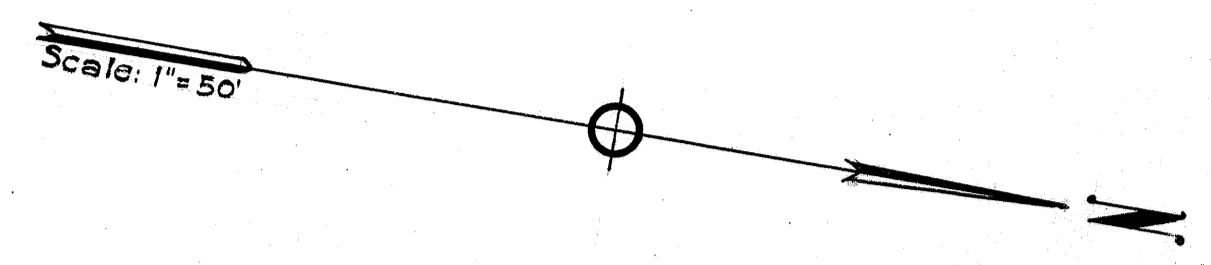
"PAKA" USMR Man. No 40

End Spur Sta. 4+57.91
Beg. Bridge

W H E E L E R Y F I E L D
U. S. M I L I T A R Y R E S E R V A T I O N

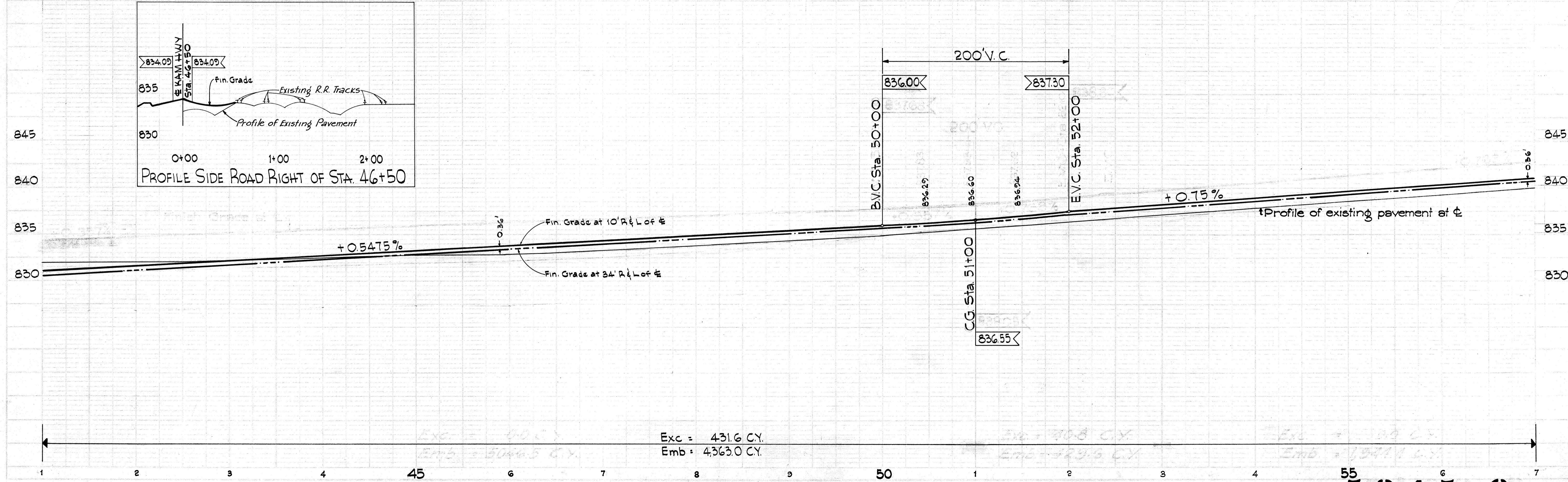
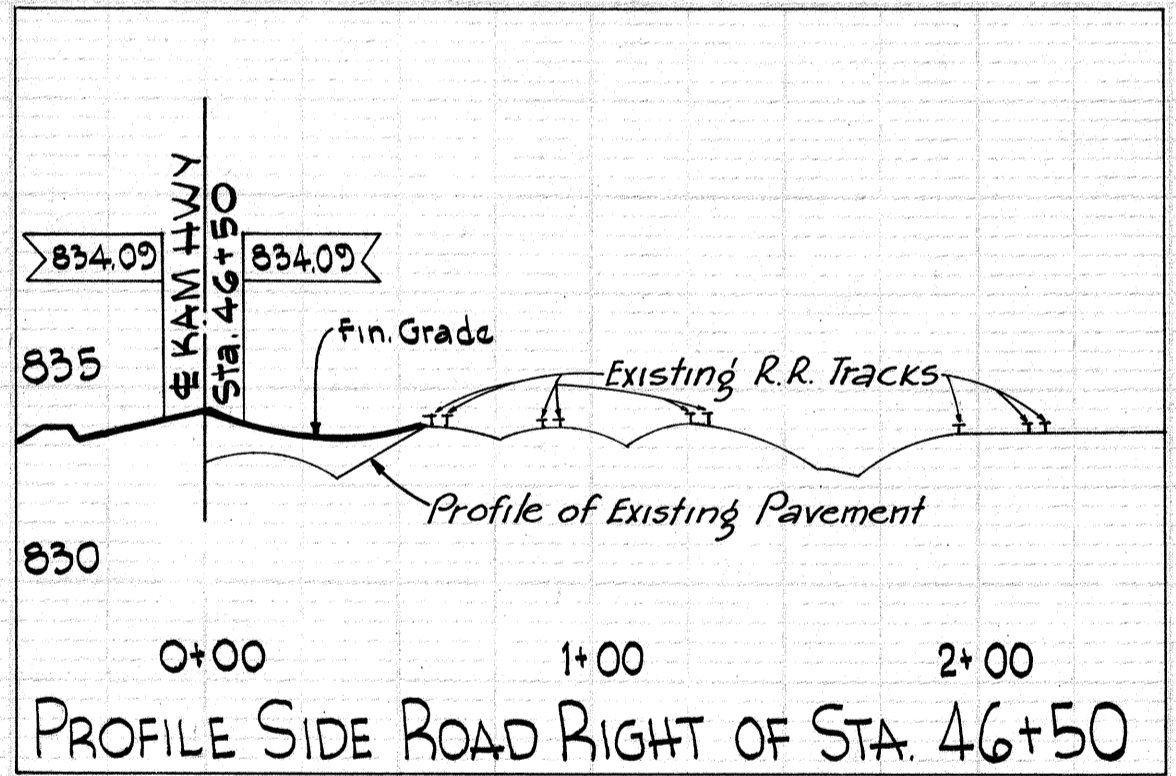
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | DAWR 8(3) | 1947 | 6 | 134 |

NOTE:
An Existing 6" Water Line crosses KANEHEHEA HIGHWAY in this vicinity.
(Exact Location not known)



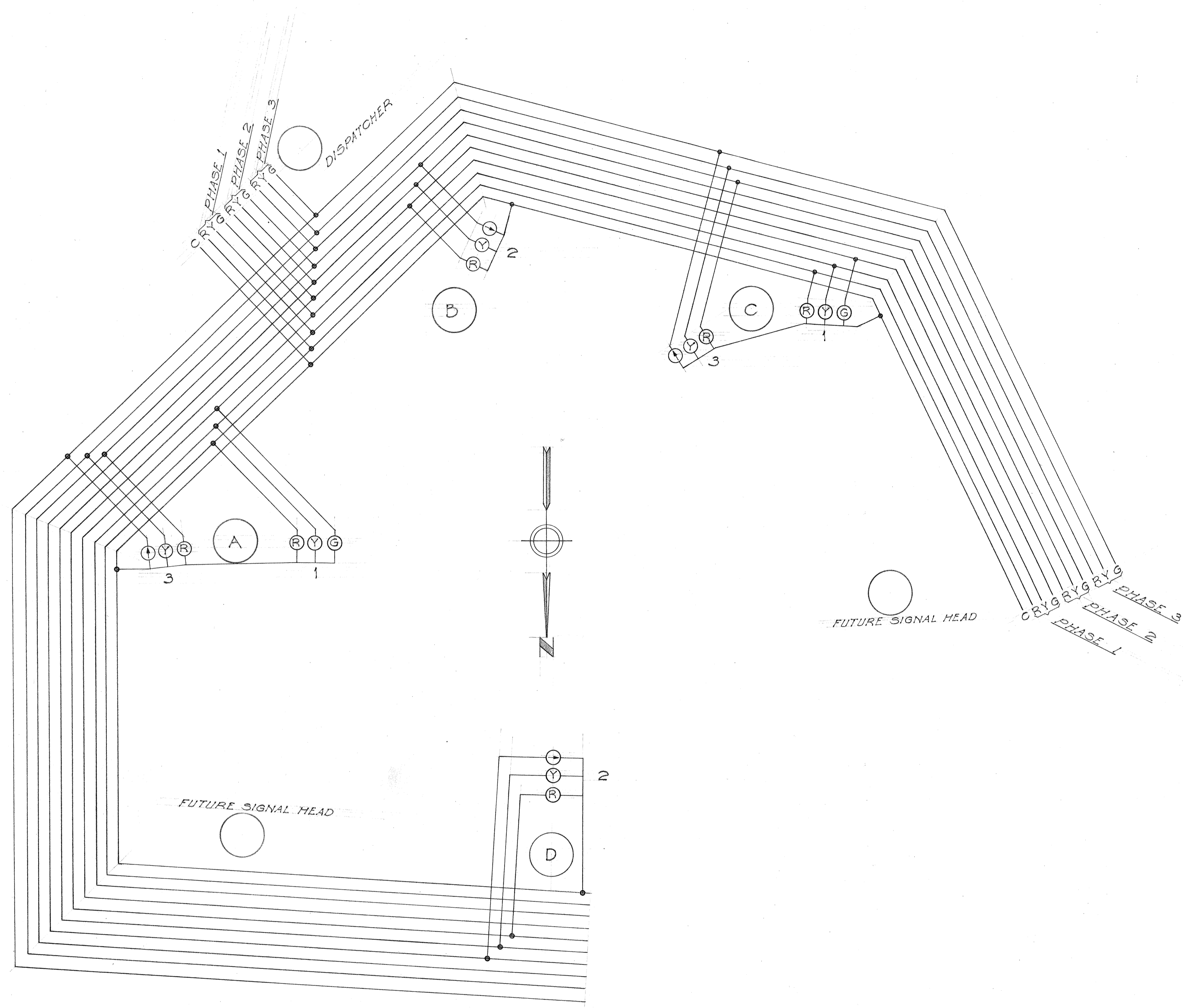
S C H O F I E L D B A R R A C K S
U. S. M I L I T A R Y R E S E R V A T I O N

NOTE: Azimuth Origin at Gov't Survey Trig. Station "Waipio"

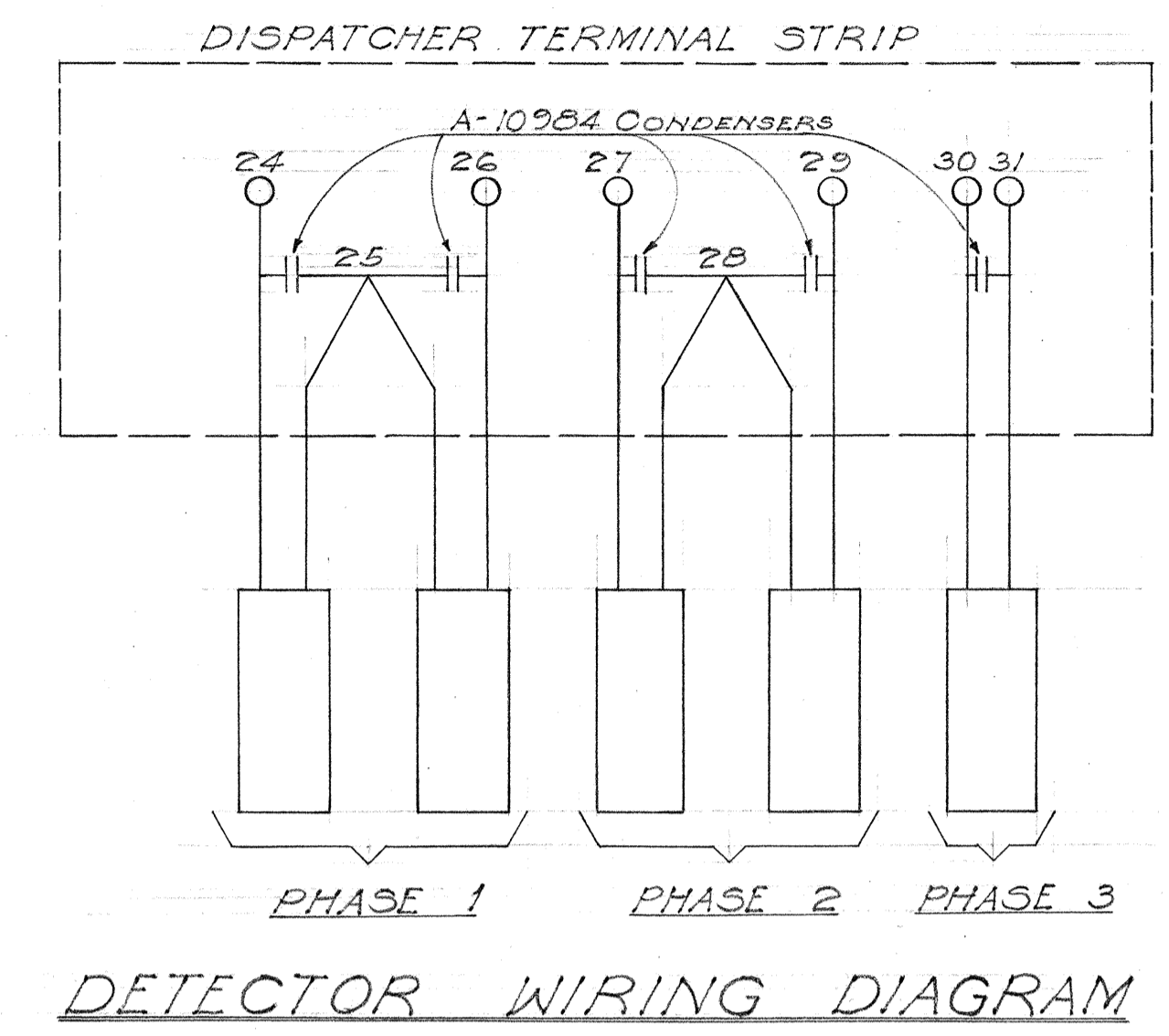


Exc = 431.6 CY
Emb = 4363.0 CY

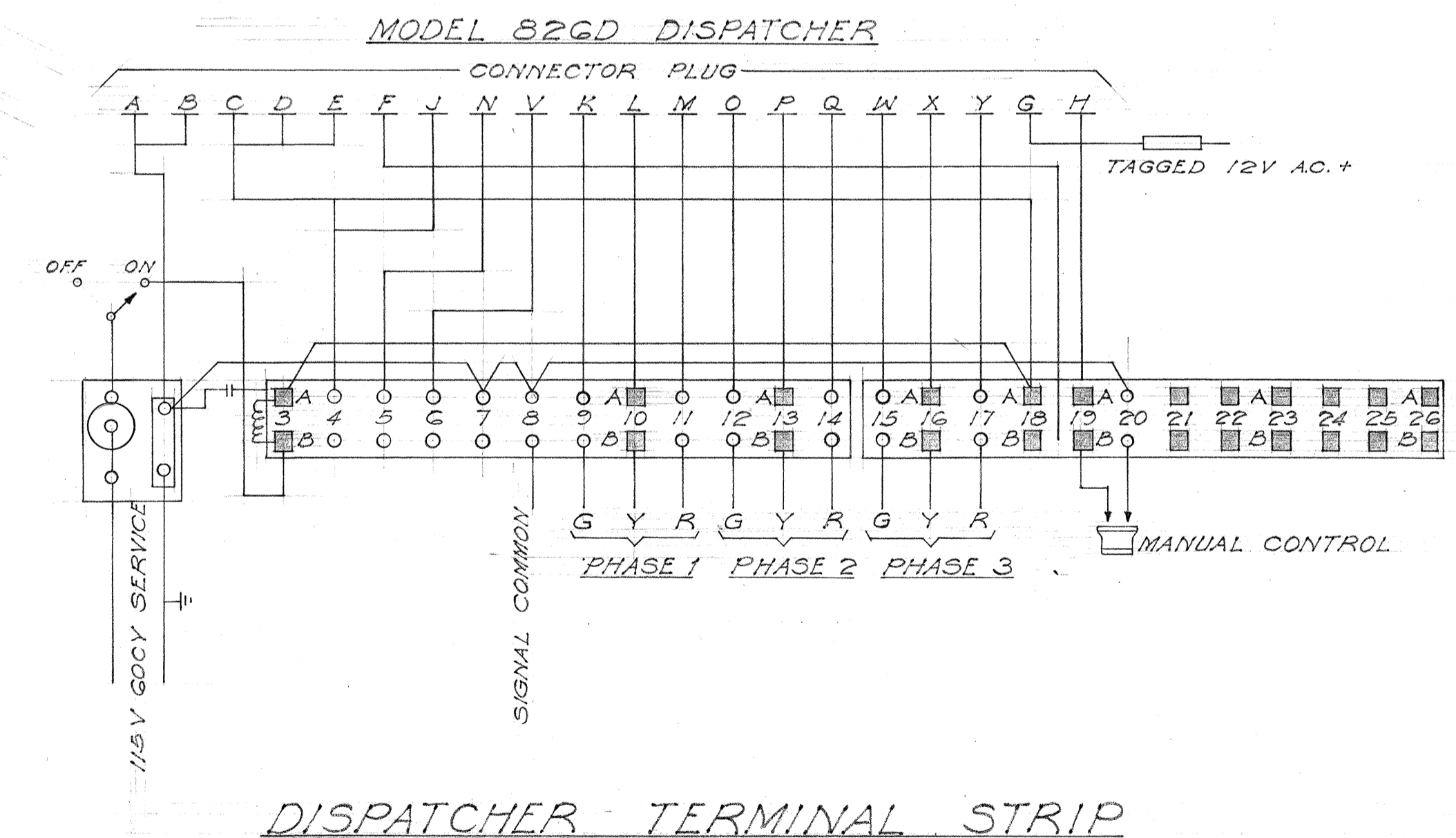
5245.6



GEOGRAPHICAL WIRING DIAGRAM



DETECTOR WIRING DIAGRAM



DISPATCHER TERMINAL STRIP

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

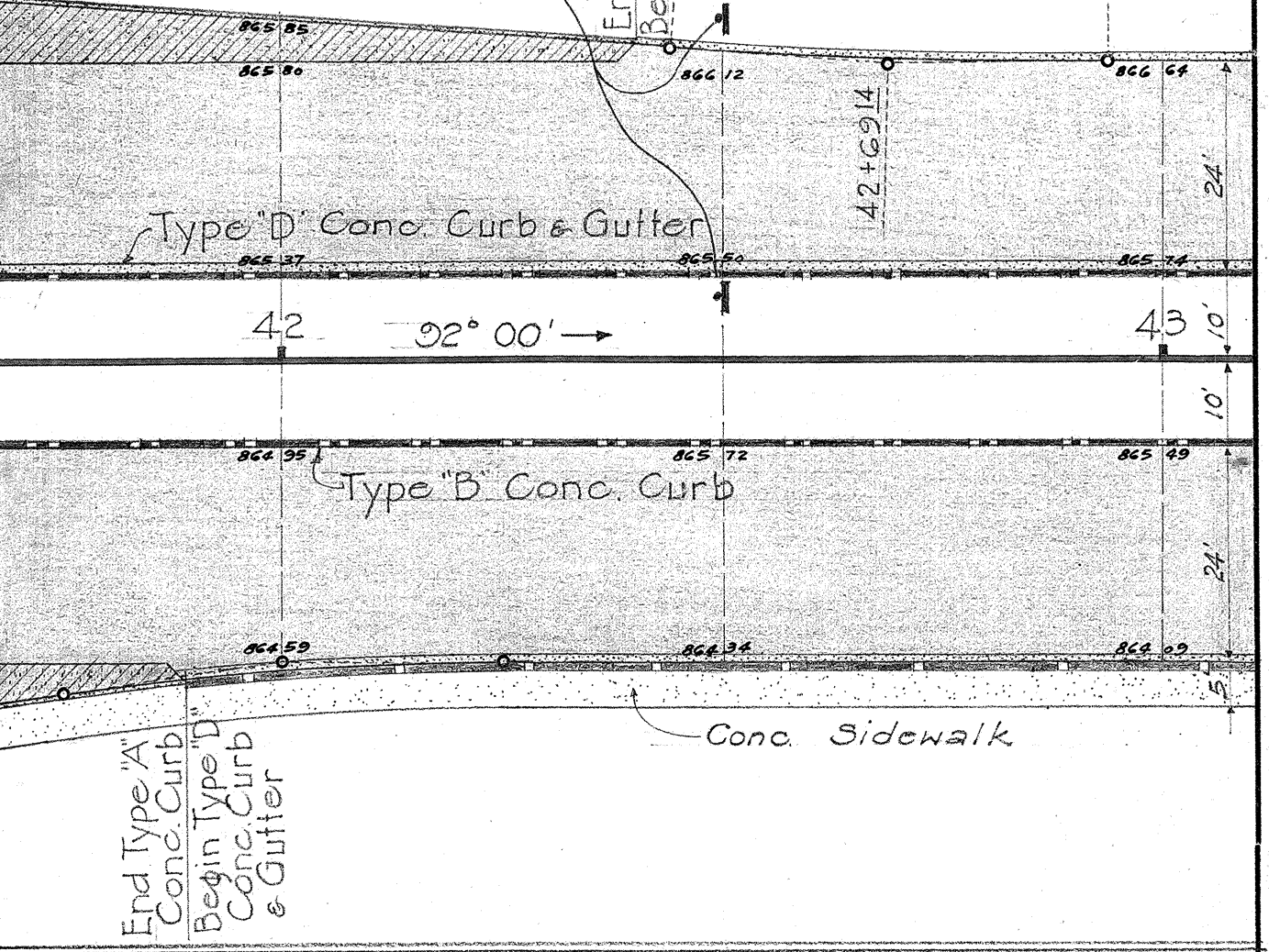
TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
INSTALLATION OF TRAFFIC CONTROL SIGNALS
 AT INTERSECTION OF
KUNIA SPUR AND WILIKINA DR.
 FEDERAL AID PROJECT No. DA-WR 8(3)
 Scale: Not to Scale Aug. 1948

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|--------------------|-------------|-----------|--------------|
| HAWAII | HAWAII | DA-WR 8 (3) | 1947 | 36 | 134 |

CURB CURVE DATA

| | |
|---------------------|-----------|
| Δ | = 4° 00' |
| $\frac{1}{2}\Delta$ | = 2° 00' |
| T | = 715.91' |
| M | = 25.00' |

TRAFFIC SIGNALS AHEAD
Sign C-8
See Sht. 5245.32



REVISED 8-24-40

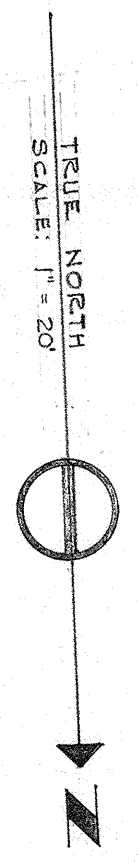
DATE: _____
 SURVEY PLOTTED BY: _____
 DESIGNED BY: _____
 DRAWN BY: _____
 NOTE BOOK NO. _____
 QUANTITIES CHECKED BY: _____
 CHECKED BY: _____

TRAFFIC SIGNALS AHEAD
Sign C-8
See Sht. 5245.32

LEGEND

- TYPE 'A' CONC. CURB
- TYPE 'B' CONC. CURB
- A.C. PAVEMENT
- CONC. PAVEMENT
- TYPE 'D' CONC. CURB & GUTTER
- TYPE 'C' CONC. CURB

P.C. CURBS Sta. 36+16.97
C.C. = 330'



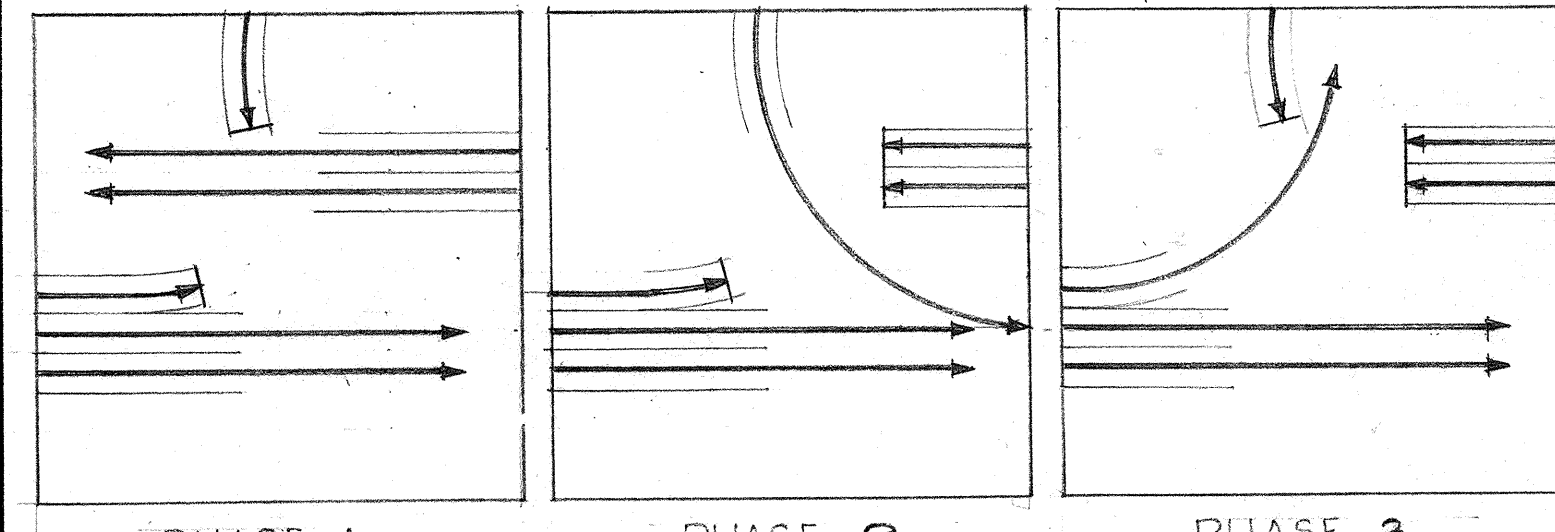
BUS STOP

WILIKINA DRIVE

BUS STOP

SIGNAL DETAILS

- Signal Head A-1 R-Y G
- Signal Head A-3 R-Y G
- Signal Head B-2 R-Y G
- Signal Head C-1 R-Y G
- Signal Head C-3 R-Y G
- Signal Head D-2 R-Y
- Dispatcher 3-phase
- Traffic Detector Model 826D
Type, Non-directional



PHASE DIAGRAM
NOT TO SCALE

KUNIA SPUR CURVE DATA

| | |
|---------------------|-----------|
| Δ | = 30° 02' |
| $\frac{1}{2}\Delta$ | = 15° 01' |
| T | = 954.93' |
| M | = 600.00' |
| L | = 160.96' |
| P | = 314.51' |
| R | = 310.92' |
| E | = 21.21' |

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 WILIKINA DRIVE AND
 KUNIA SPUR INTERSECTION
 PROJECT NO. DA-WR 8 (3)

SCALE: 1" = 20' FEB. 24, 1948

SHEET NO. OF SHEETS

5245.36

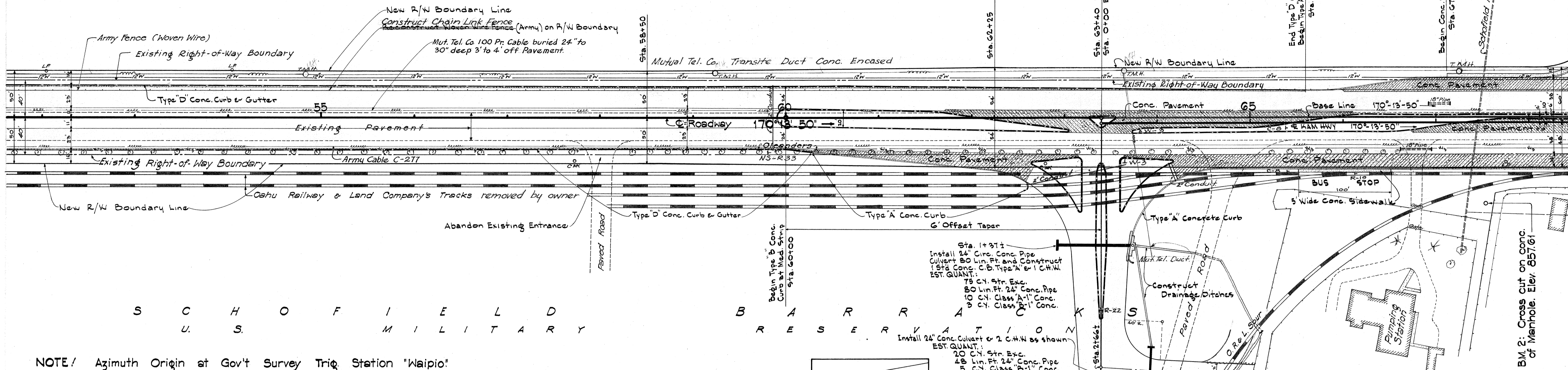
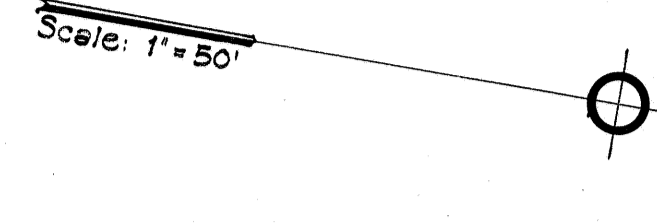
W H E E L E R F E I T I O N
 U. S. M I L I T A R Y R E S E R V A T I O N

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW | DA-W-80 | 1947 | 7 | 134 |

NOTES:

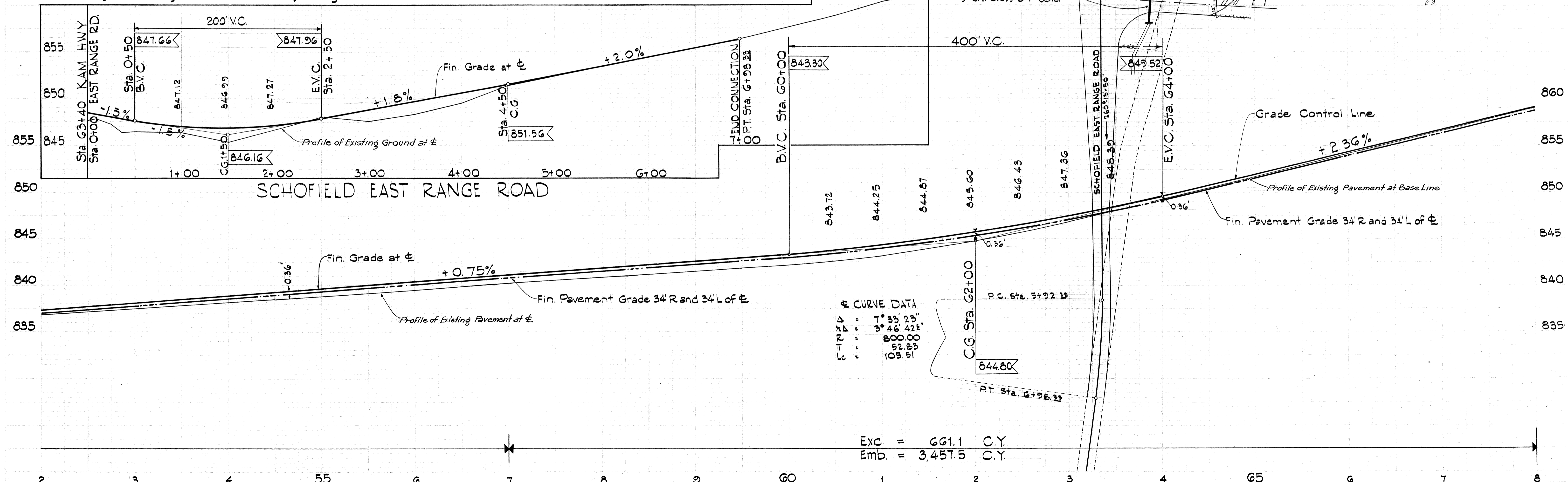
Install Type "B" Conc. Curb for Traffic Islands and Medial Strips as shown.
 For Detail of Kamohamoha - East Range Road Intersection, and Layout of East Range Road See Sheet No. 5245.53.

Construct Intersection As Shown
 EST. QUANT. :
 1000 C.Y. Emb.
 900 C.Y. B.C.
 3000 S.Y. A.C. Pavt
 370 C.Y. Conc. Pavt
 750 Lin. Ft. Type "B" Conc. Curb

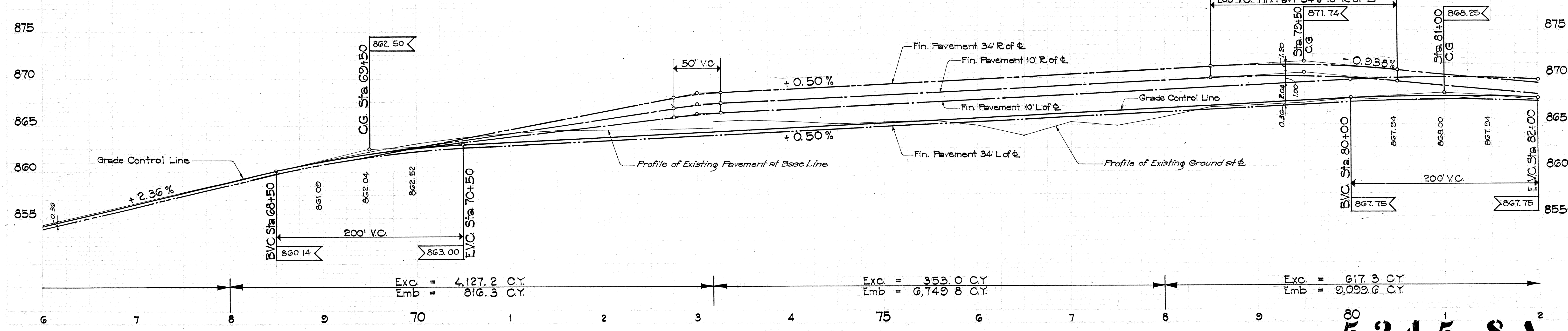
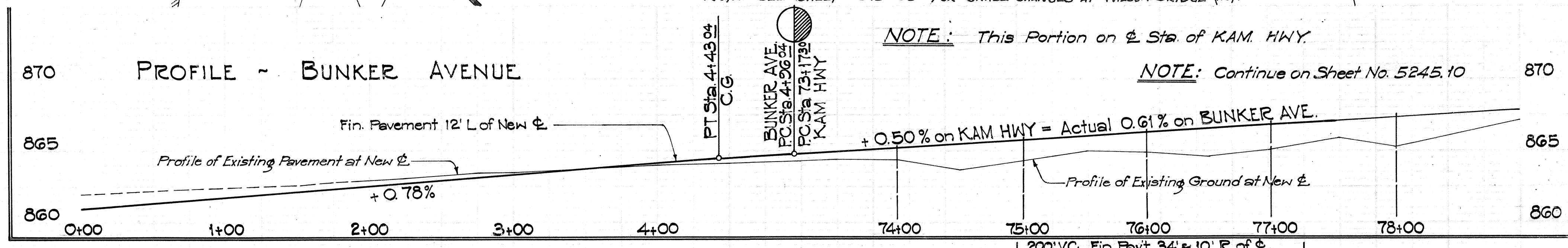
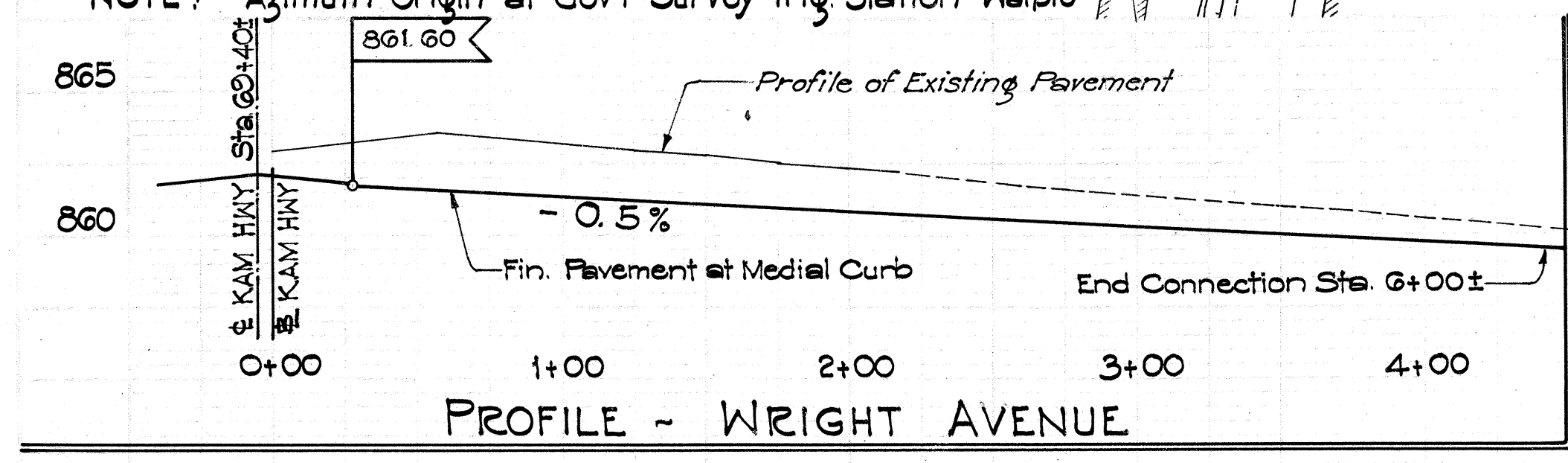
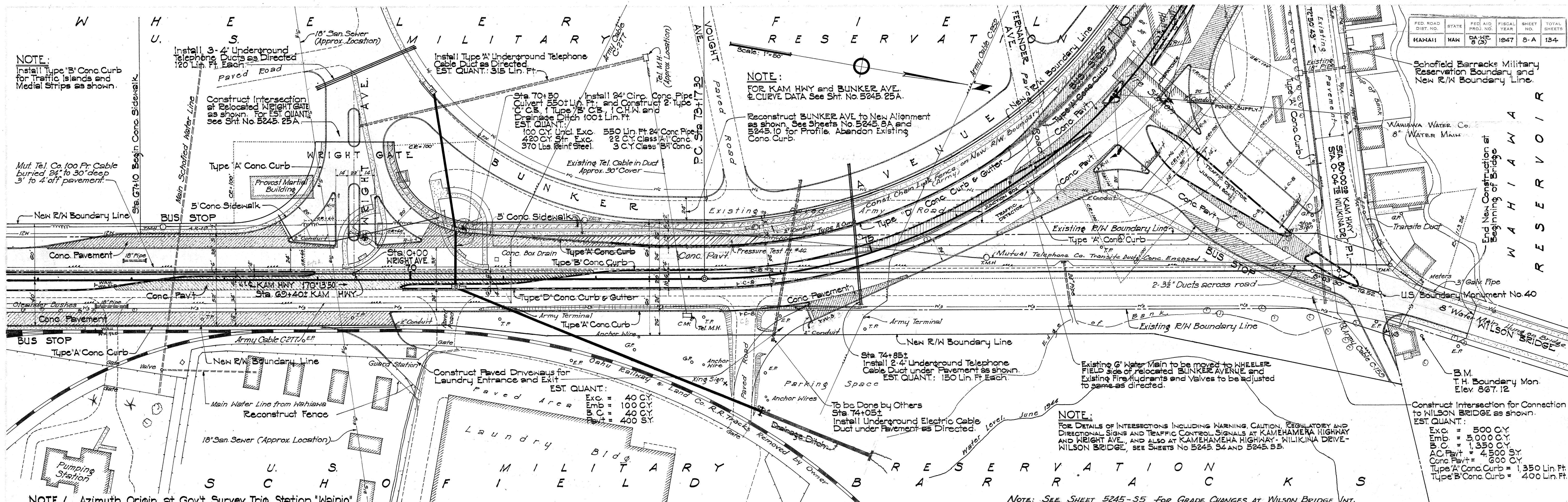


S C H O F I E L D
 U. S. M I L I T A R Y
 B A S E R E S E R V A T I O N

NOTE! Azimuth Origin at Gov't Survey Trig Station "Waipio"



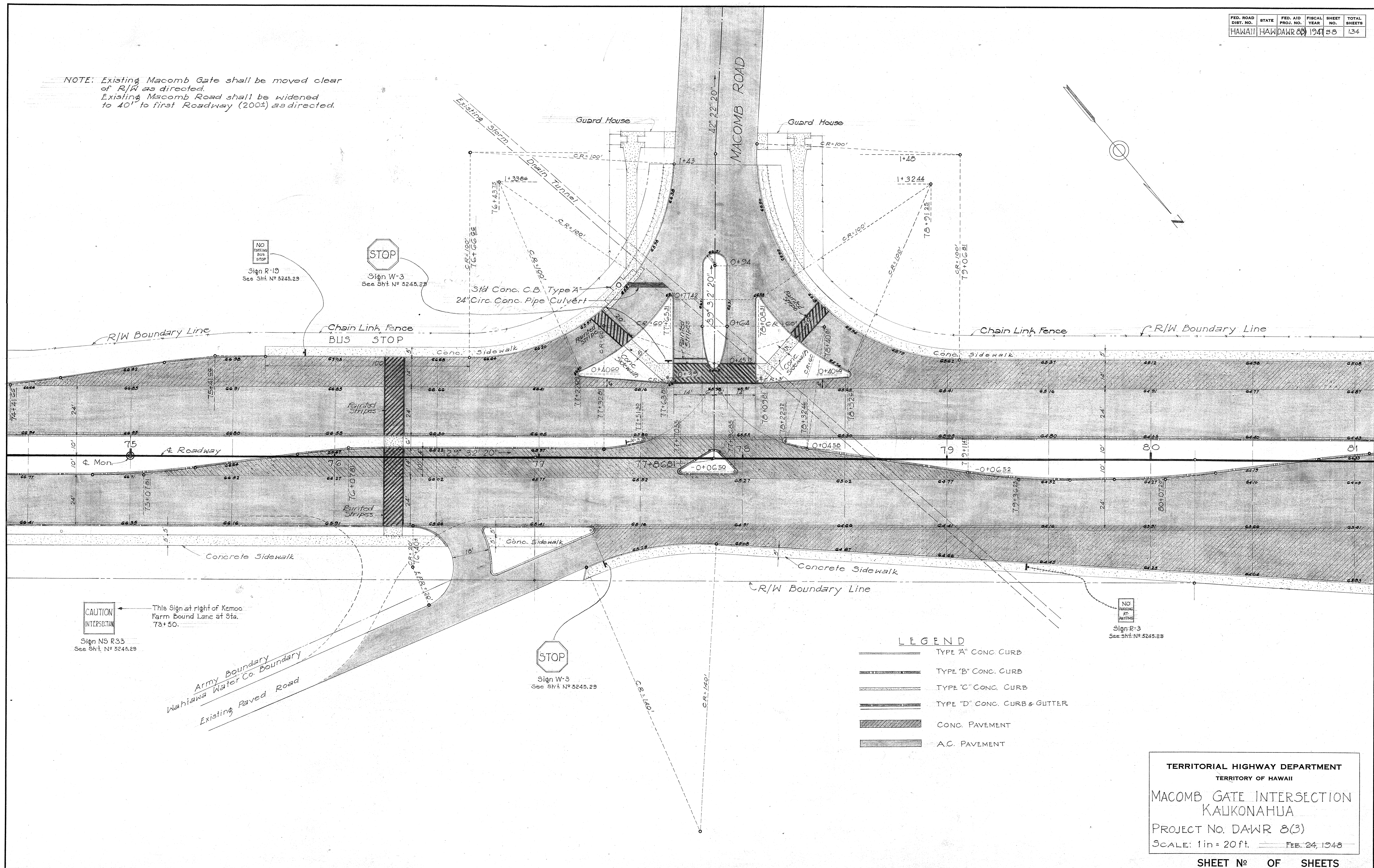
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | DA-116 (S) | 1947 | 8-A | 134 |



5245.SA

5245.8 5162.9

NOTE: Existing Macomb Gate shall be moved clear of R/W as directed.
Existing Macomb Road shall be widened to 40' to first Roadway (200±) as directed.



CAUTION INTERSECTION
This Sign at right of Kemoo Farm Bound Lane at Sta. 73+50.
Sign NS R-33
See Sht. No. 5245.29

STOP
Sign W-3
See Sht. No. 5245.29

NO PARKING AT ANYTIME
Sign R-3
See Sht. No. 5245.29

- LEGEND**
- TYPE "A" CONC. CURB
 - TYPE "B" CONC. CURB
 - TYPE "C" CONC. CURB
 - TYPE "D" CONC. CURB & GUTTER
 - CONC. PAVEMENT
 - A.C. PAVEMENT

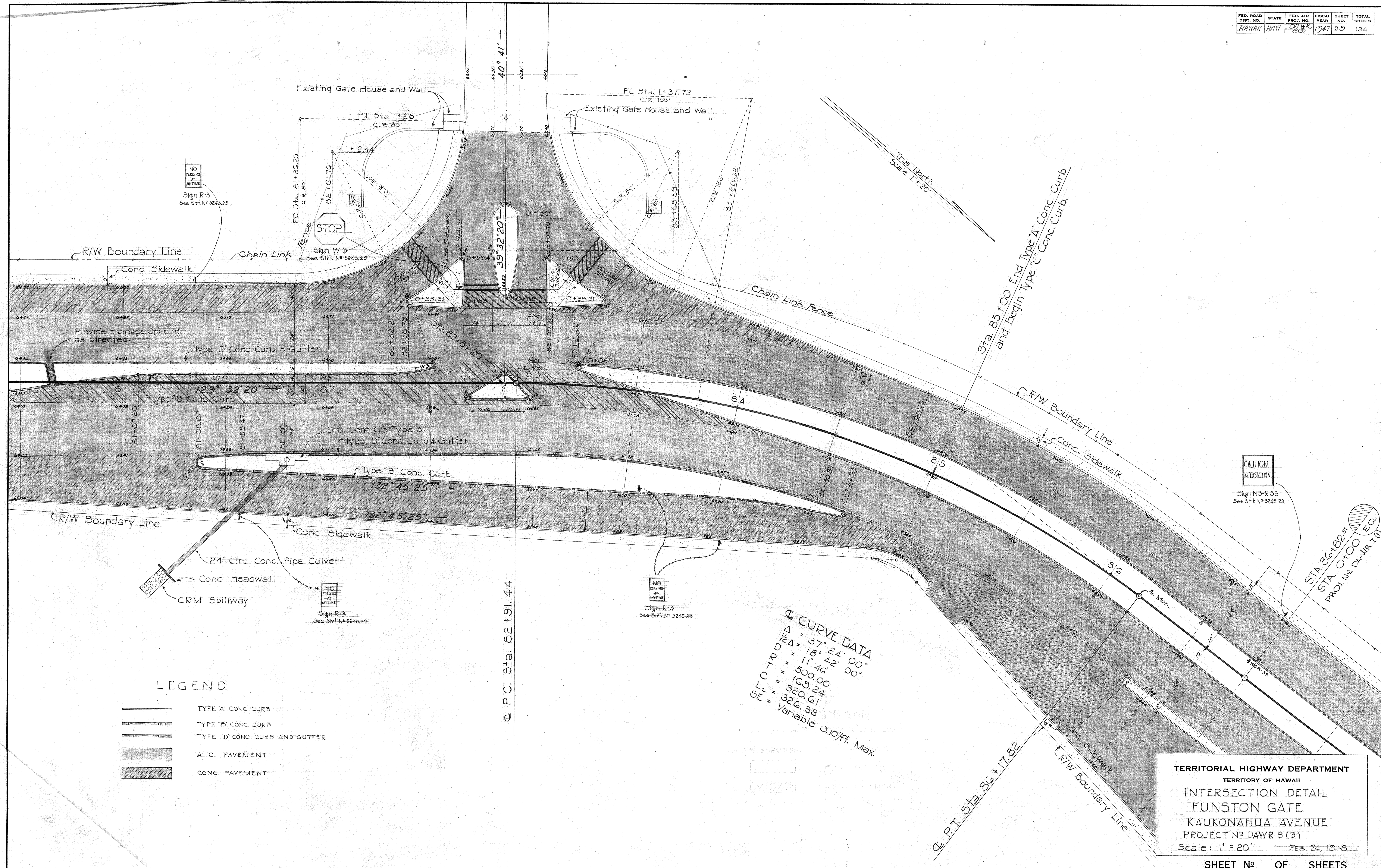
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
MACOMB GATE INTERSECTION
KAUKONAHUA
PROJECT NO. DAWR 8(3)
SCALE: 1 in = 20 ft. FEB. 24, 1948

SHEET No. OF SHEETS
5245.88

SURVEY PLOTTED BY: _____ DATE: _____
DESIGNED BY: _____
TRACED BY: _____
QUANTITIES BY: _____
CHECKED BY: _____
NOTE BOOK No. _____

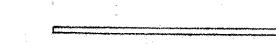



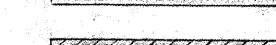
North Arrow Legend Note Title

SCALE: 1 in = 20 ft. MACOMB GATE INTERSECTION KAUKONAHUA TERRITORY OF HAWAII



SURVEY PLOTTED BY _____ DATE _____
 DESIGNED BY _____
 TRACED BY _____
 NOTE BOOK No. _____
 QUANTITIES CHECKED BY _____
 CHECKED BY _____

LEGEND

-  TYPE 'A' CONC. CURB
-  TYPE 'B' CONC. CURB
-  TYPE 'D' CONC. CURB AND GUTTER
-  A. C. PAVEMENT
-  CONC. PAVEMENT

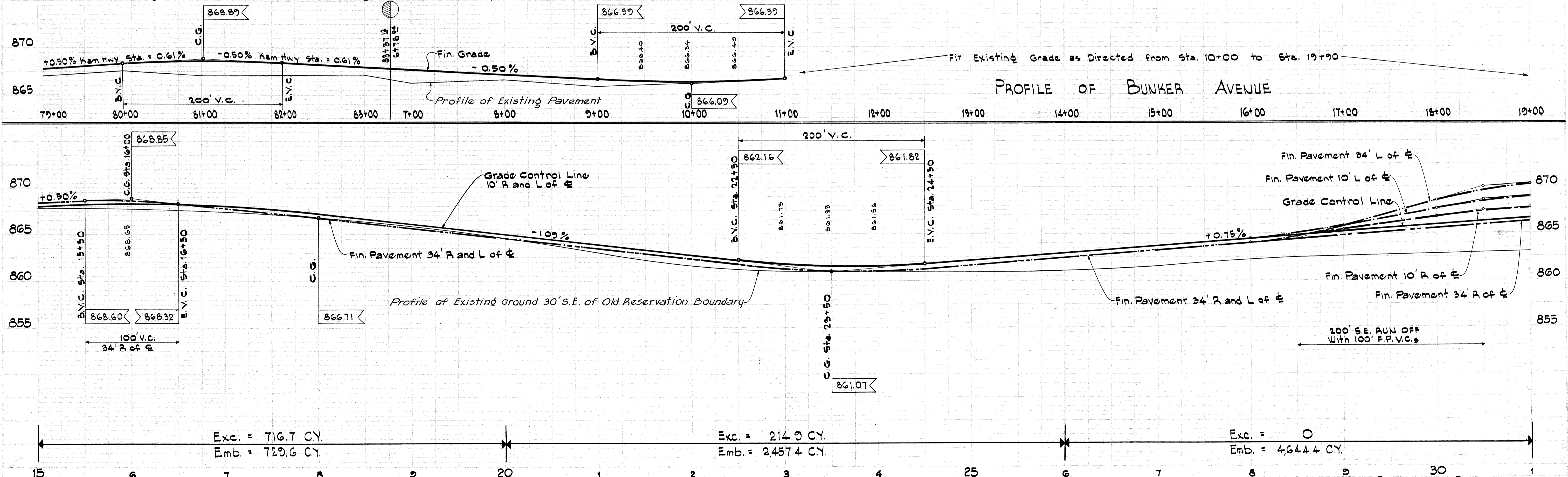
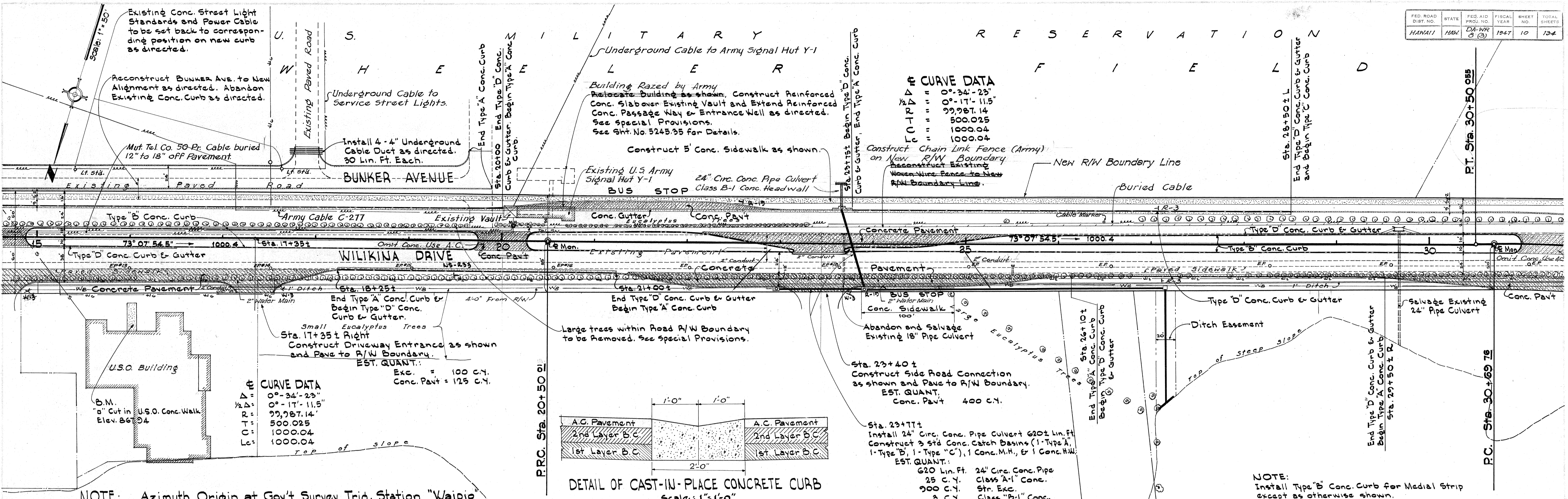
☉ CURVE DATA
 $\Delta = 37^{\circ} 24' 00''$
 $\frac{1}{2}\Delta = 18^{\circ} 42' 00''$
 $C - TR = 11' 46''$
 $C = 500.00$
 $L_c = 169.24$
 $L_e = 320.61$
 $SE = 326.38$
 SE = Variable 0.10/ft. Max.

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
INTERSECTION DETAIL
FUNSTON GATE
KAUKONAHUA AVENUE
 PROJECT NO. DAWR 8(3)
 Scale: 1" = 20' FEB. 24, 1948

SHEET No. OF SHEETS

5245.S9

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW | DA-WR 3(3) | 1947 | 10 | 134 |



5245.10



CAUTION INTERSECTION
Sign NS R 33
See Sht. N° 8245.29

EQ
STA. 86+82.51
STA. 0+00
PROJ. N° DA-WR 7(1)

NO PARKING AT INTERSEC.
Sign R-3
See Sht. N° 8245.29

STOP
Sign W 3
See Sht. N° 8245.29

☉ CURVE DATA
 $\Delta = 37^\circ 24' 00''$
 $\frac{1}{2}\Delta = 18^\circ 42' 00''$
 $D = 11' 46''$
 $R = 500.00$
 $T = 169.24$
 $C = 320.61$
 $Lc = 326.38$
 $S_e = \text{Variable } 0.10/\text{ft. Max.}$

- LEGEND
- TYPE 'A' CONC. CURB
 - TYPE 'B' CONC. CURB
 - TYPE 'C' CONC. CURB
 - TYPE 'D' CONC. CURB & GUTTER
 - A.C. PAVEMENT
 - CONC. PAVEMENT

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
 PAVED PARKING AREA
 KEMOO FARM
 KAUKONAHUA AVE
 PROJECT NO. DA-WR 8(3)
 SCALE: 1" = 20' FEB. 24, 1948

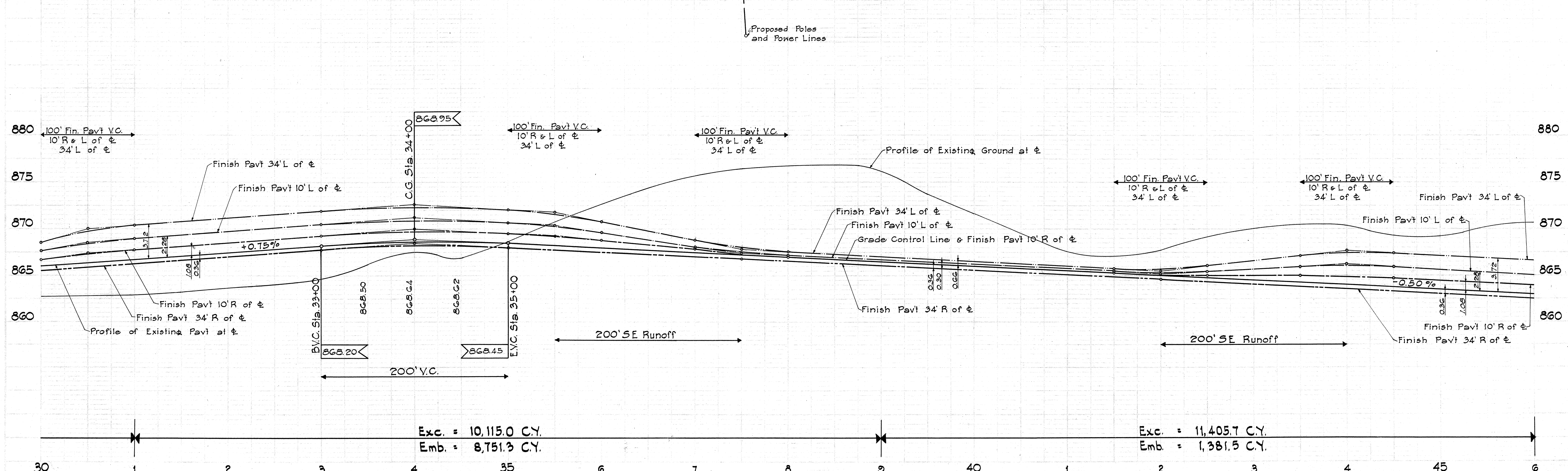
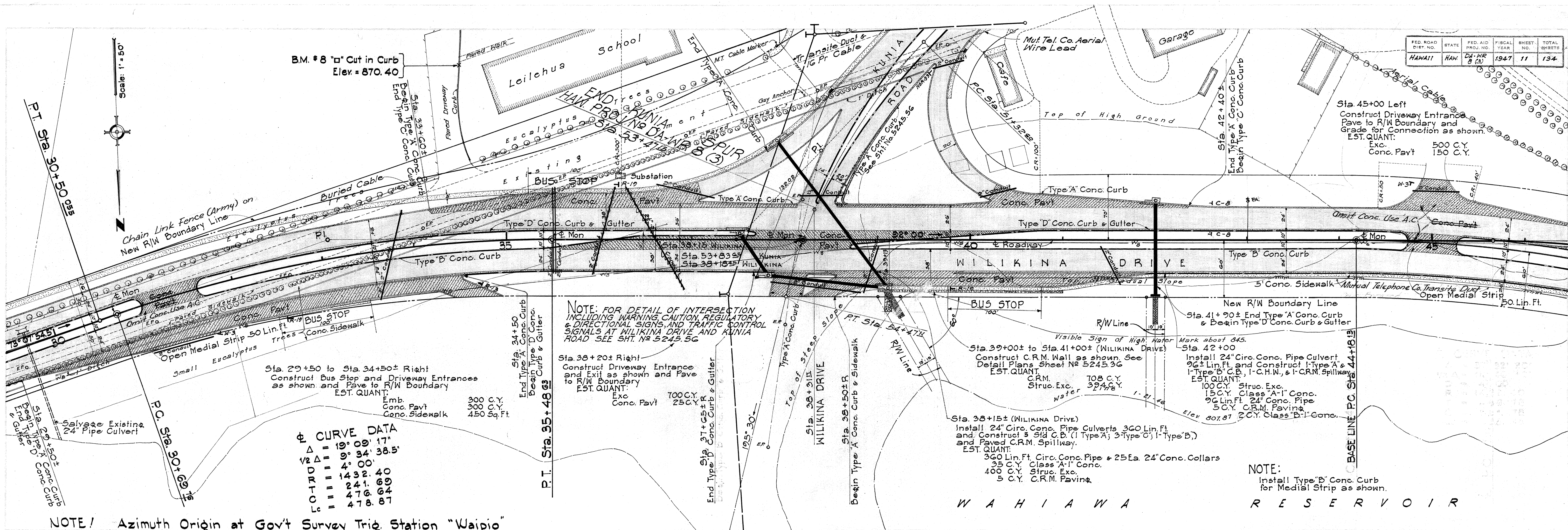
SHEET N° OF SHEETS

5245.S10

SURVEY PLOTTED BY: _____ DATE: _____
 DESIGNED BY: _____
 TRACED BY: _____
 QUANTITIES BY: _____
 CHECKED BY: _____

ORIGINAL PLAN No. _____
 NOTE BOOK No. _____

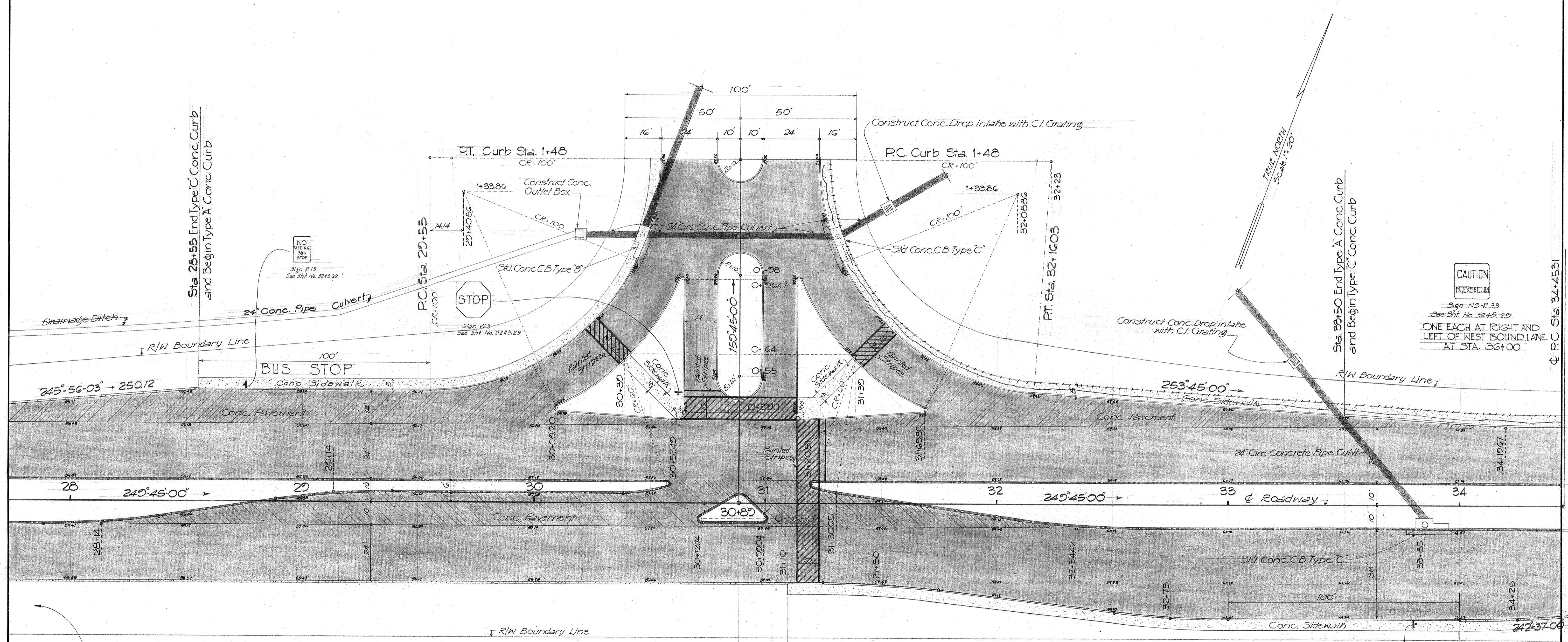
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|--------------------|-------------|-----------|--------------|
| HAWAII | HAWAII | DA-WR 8 (3) | 1947 | 11 | 134 |



REVISED JAN. '48

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW | DAWR 8(3) | 1947 | 511 | 134 |

NOTE:
FOR ADDITIONAL DRAINAGE DETAIL THIS AREA
SEE SHEET No. 5245.47



CAUTION INTERSECTION
Sign N3-R33
See Sht. No. 5245.29
ONE EACH AT RIGHT AND LEFT OF WEST BOUND LANE AT STA. 36+00

CAUTION INTERSECTION
Sign N3-R33
See Sht. No. 5245.29

NOTE:
See Sht. No. 5245.23 for Sewer Line and Utilities.

LEGEND

| | |
|--|---------------------|
| | Type "A" CONC. CURB |
| | Type "C" CONC. CURB |
| | Type "B" CONC. CURB |
| | AC PAVEMENT |
| | CONC. PAVEMENT |

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
INTERSECTION DETAIL
STA 30+80
KUNIA SPUR
PROJECT NO DA WR 8(3)
Scale 1"=20' FEB. 24, 1948

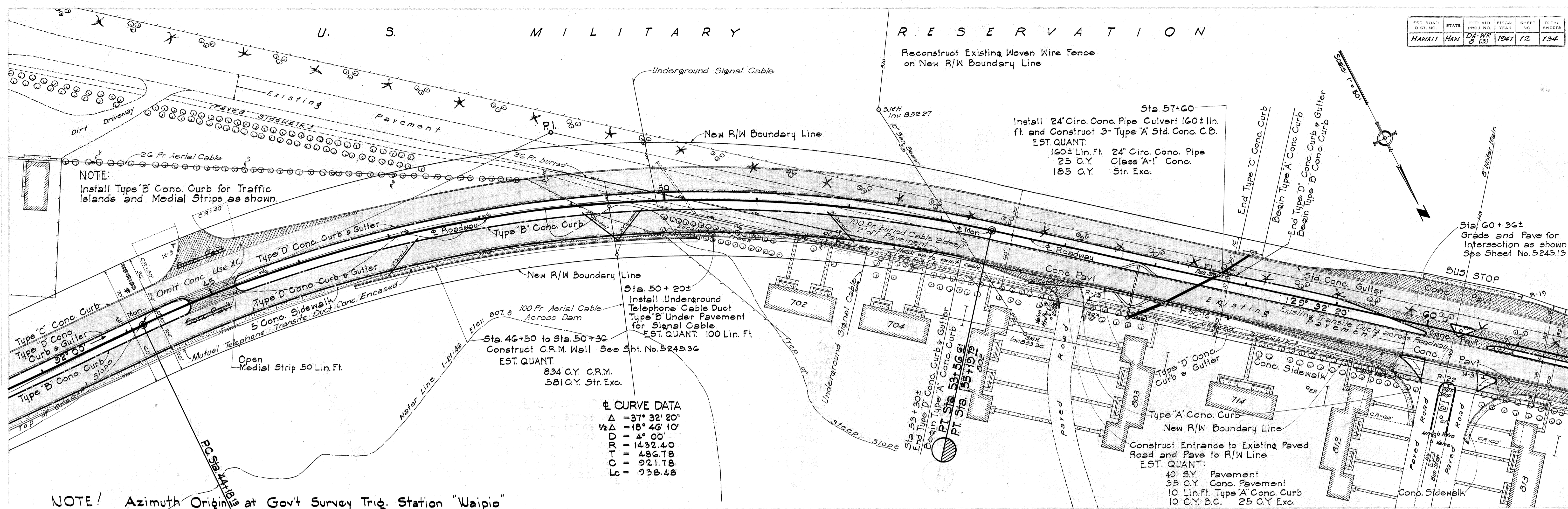
SHEET No OF SHEETS

5245.S11

| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY | |
| TRACED BY | |
| QUANTITIES BY | |
| NOTE BOOK | |
| CHECKED BY | |
| No. | |

U. S. M I L I T A R Y R E S E R V A T I O N

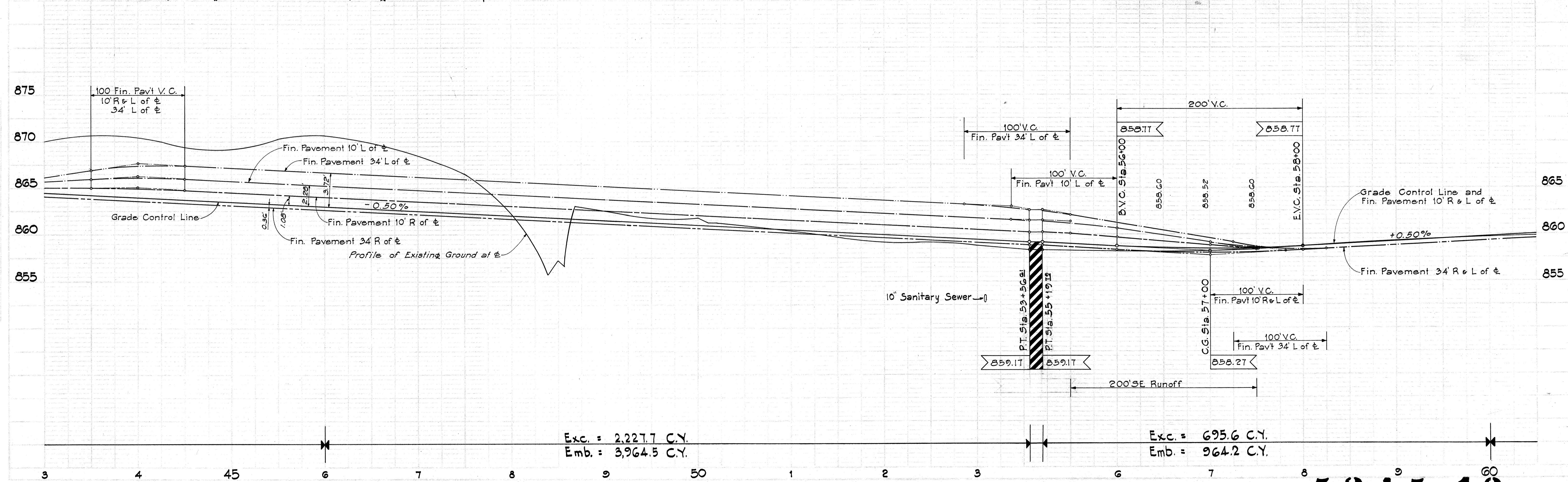
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW | DA-WR 8(3) | 1947 | 12 | 134 |



¢ CURVE DATA

| | |
|-----|---------------|
| Δ | = 37° 32' 20" |
| ½ Δ | = 18° 46' 10" |
| D | = 4° 00' |
| TR | = 1432.40 |
| TT | = 486.78 |
| LC | = 221.78 |
| Lc | = 238.48 |

REVISED JAN '48

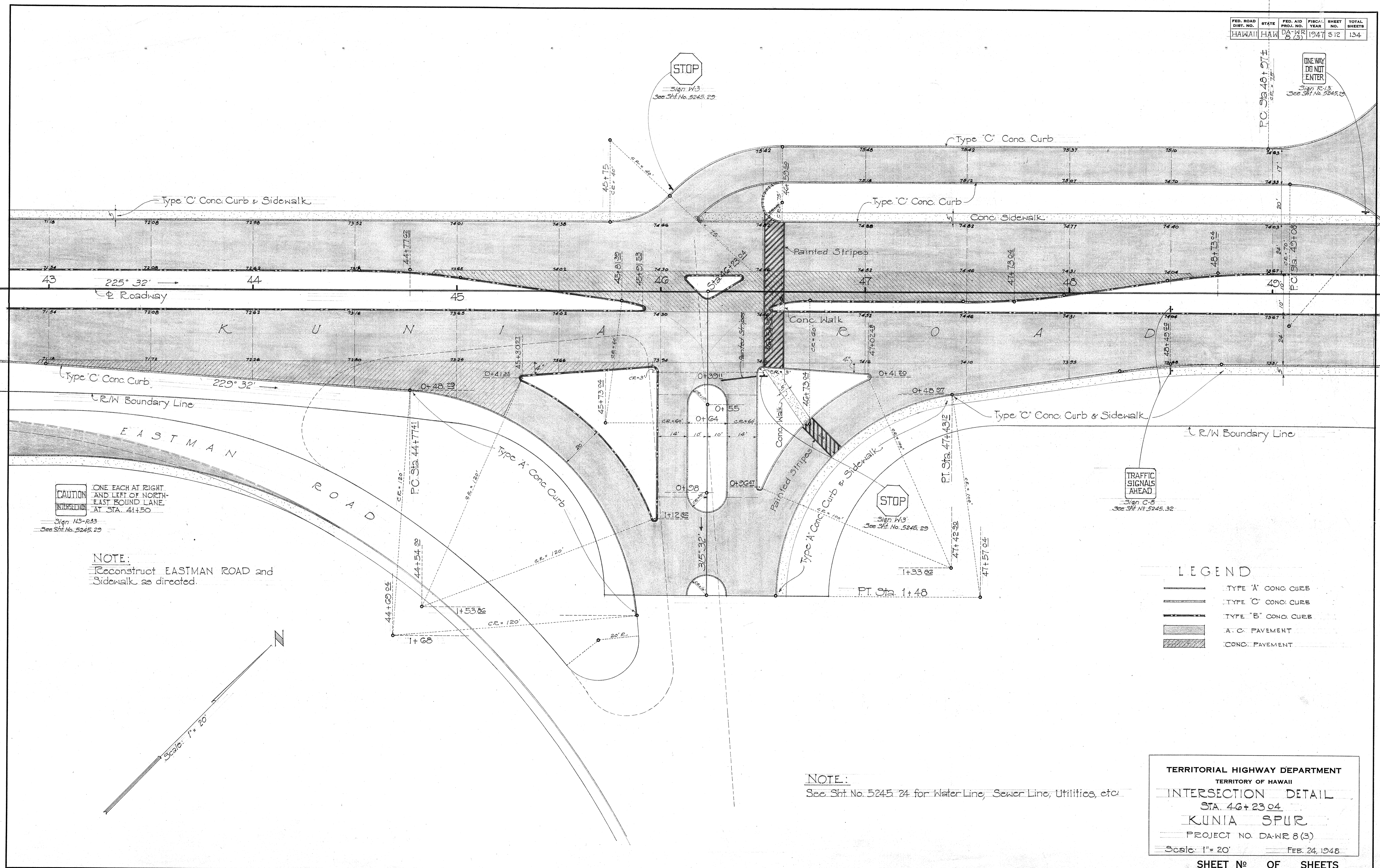


ONE WAY DO NOT ENTER
Sign R-13
See Sht. No. 5245.23

STOP
Sign W-3
See Sht. No. 5245.29

P.C. Sta. 48+97.4
C.E. = 120'

TRAFFIC SIGNALS AHEAD
Sign C-8
See Sht. No. 5245.32

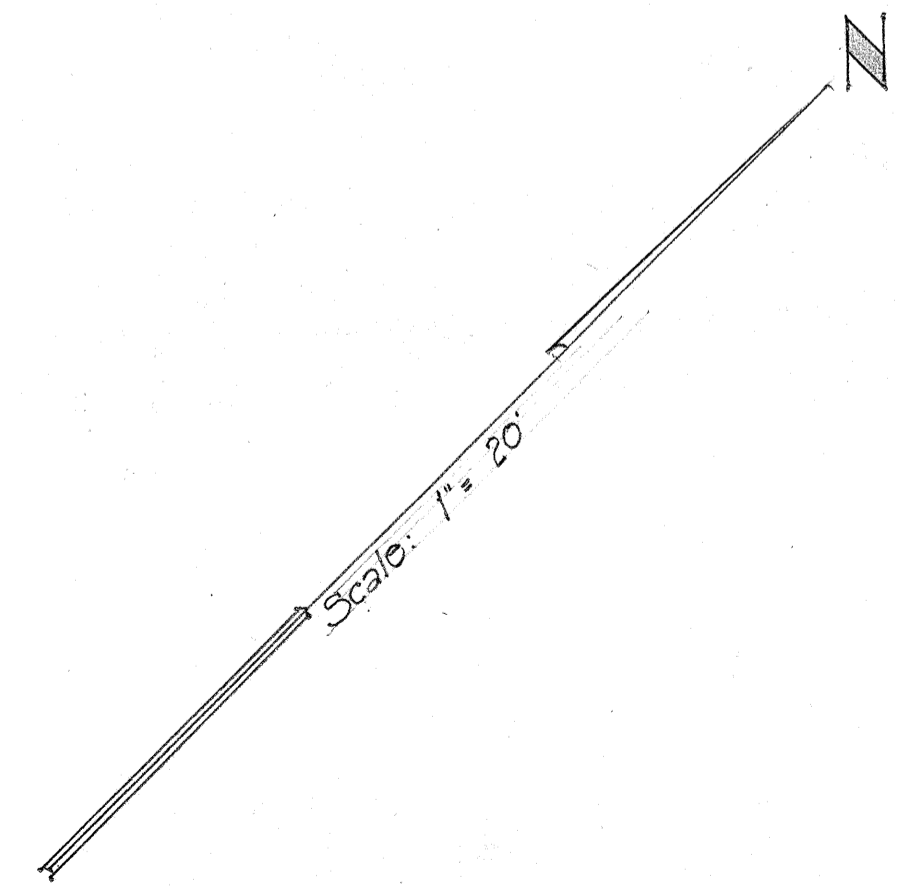


CAUTION INTERSECTION
ONE EACH AT RIGHT AND LEFT OF NORTH-EAST BOUND LANE AT STA. 41+50
Sign H-5-R33
See Sht. No. 5245.29

NOTE:
Reconstruct EASTMAN ROAD and Sidewalk, as directed.

- LEGEND**
- TYPE 'A' CONC. CURB
 - TYPE 'C' CONC. CURB
 - TYPE 'B' CONC. CURB
 - A. C. PAVEMENT
 - CONC. PAVEMENT

| | |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DESIGNED BY | |
| TRACED BY | |
| QUANTITIES BY | |
| CHECKED BY | |
| NOTE BOOK No. | |

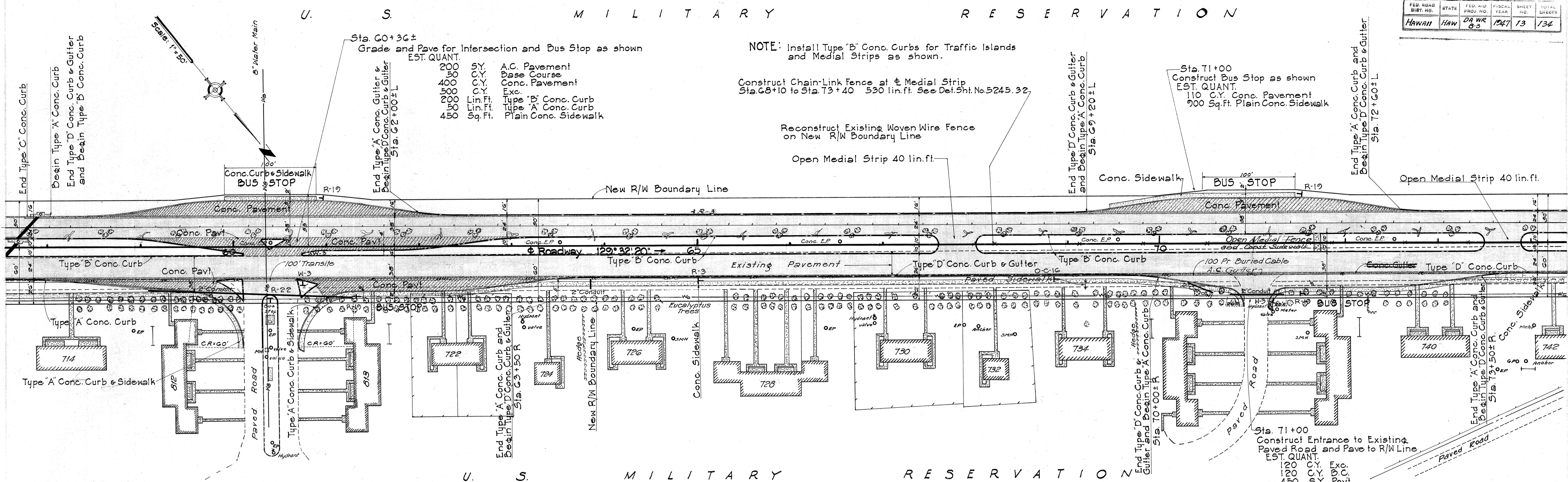


NOTE:
See Sht. No. 5245.24 for Water Line, Sewer Line, Utilities, etc.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
INTERSECTION DETAIL
STA. 46+23.04
KUNIA SPUR
PROJECT NO. DA-WR 8(3)
Scale: 1" = 20' FEB. 24, 1948
SHEET NO. OF SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW | DA WR 8-3 | 1947 | 13 | 134 |

U. S. M I L I T A R Y R E S E R V A T I O N



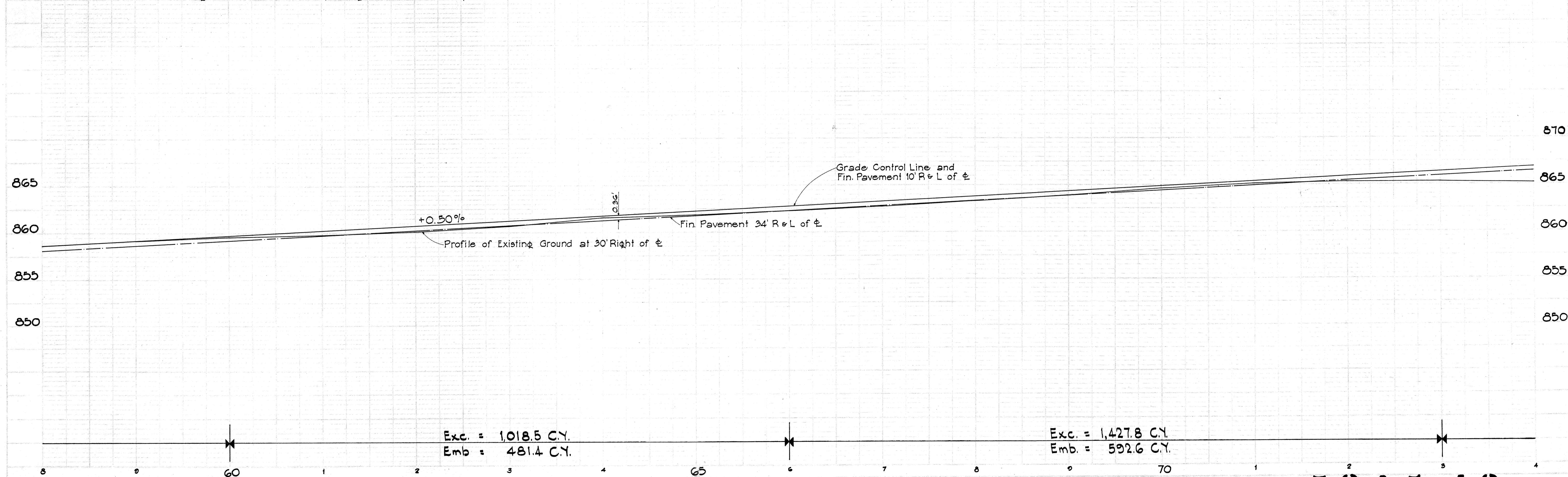
NOTE: Install Type "B" Conc. Curbs for Traffic Islands and Medial Strips as shown.
 Construct Chain-Link Fence at $\frac{1}{2}$ Medial Strip Sta. 68+10 to Sta. 73+40 530 lin. ft. See Def. Sht. No. 5245.32

Sta. 60+36±
 Grade and Pave for Intersection and Bus Stop as shown
 EST. QUANT.
 200 S.Y. A.C. Pavement
 150 C.Y. Base Course
 400 C.Y. Conc. Pavement
 500 Exc.
 200 Lin. Ft. Type "B" Conc. Curb
 150 Lin. Ft. Type "A" Conc. Curb
 450 Sq. Ft. Plain Conc. Sidewalk

Sta. 71+00
 Construct Bus Stop as shown
 EST. QUANT.
 110 C.Y. Conc. Pavement
 900 Sq. Ft. Plain Conc. Sidewalk

NOTE! Azimuth Origin at Gov't Survey Trip. Station "Waipio"

U. S. M I L I T A R Y R E S E R V A T I O N

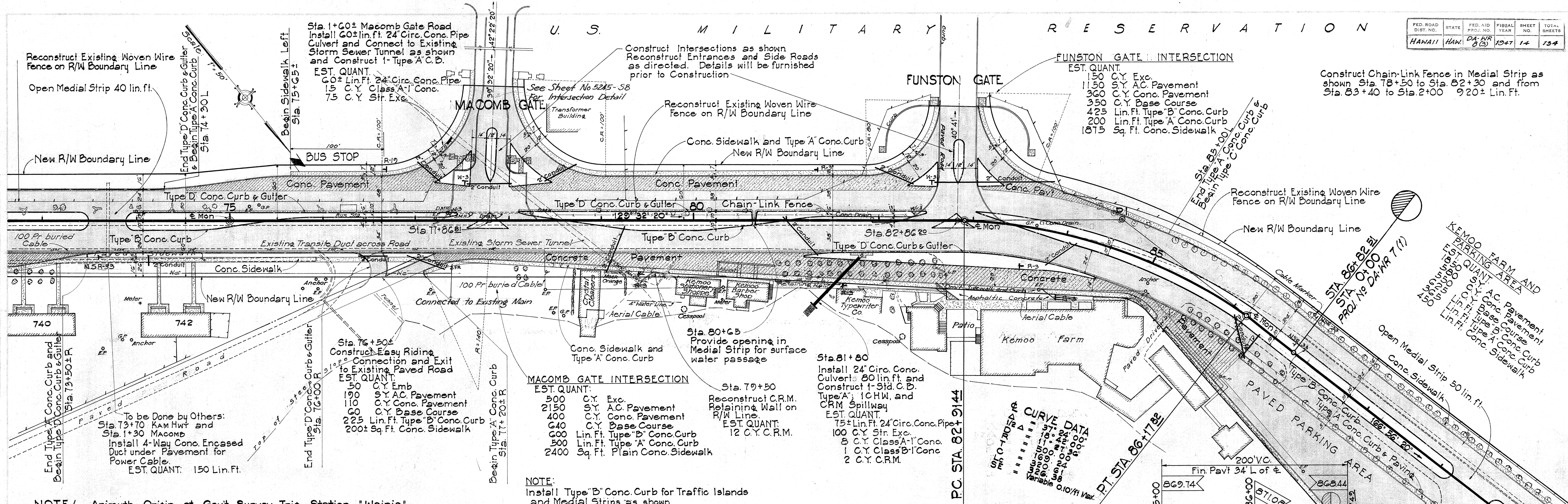


5245.13

REVISED JAN. '48

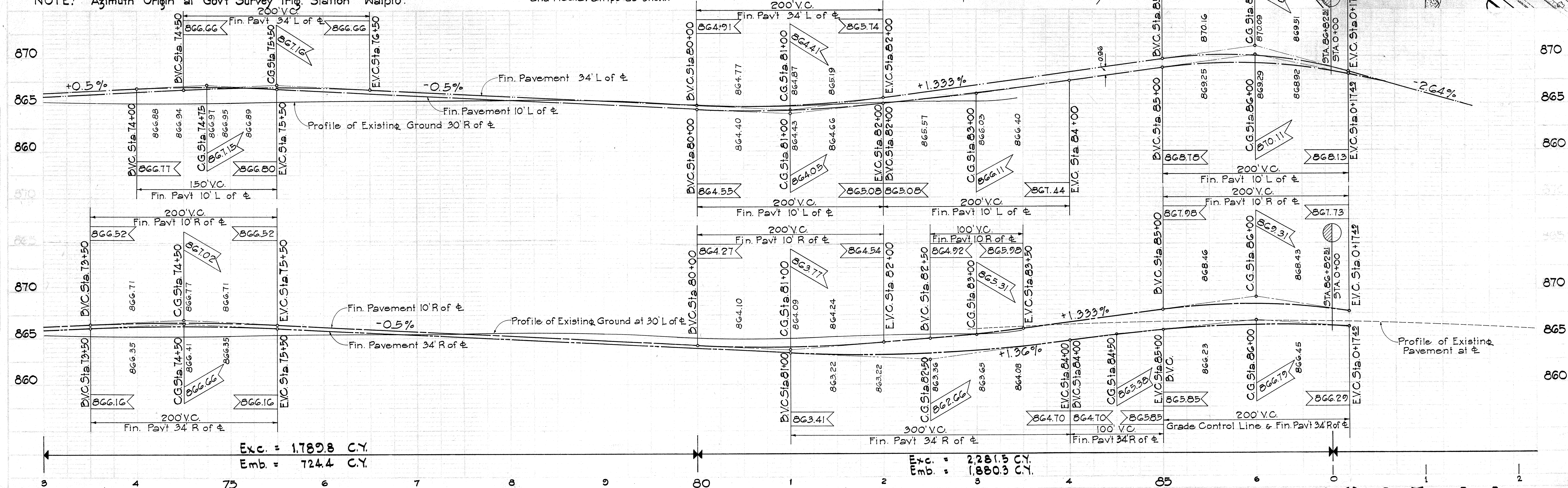
U. S. M I L I T A R Y R E S E R V A T I O N

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW. | DA-NR 8(3) | 1947 | 14 | 134 |



REVISED JAN '48

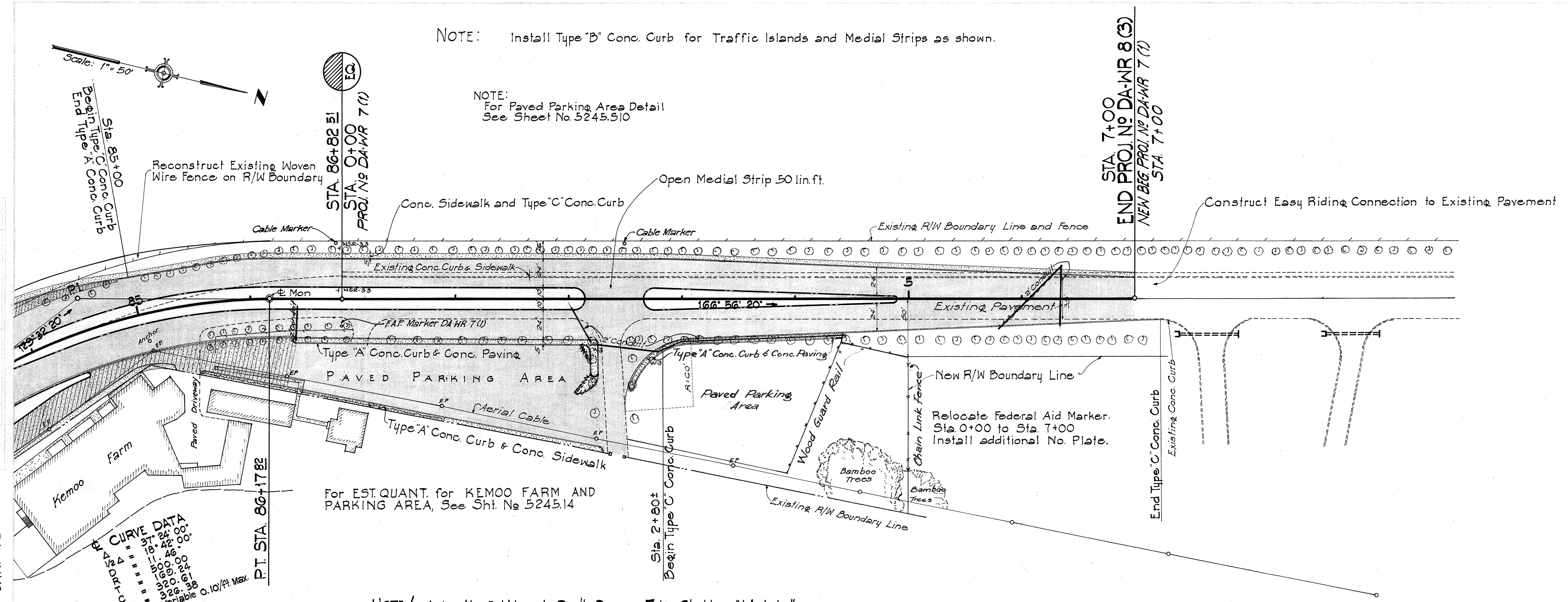
NOTE! Azimuth Origin at Gov't Survey Trig. Station "Waipio"



5245.14

NOTE: Install Type "B" Conc. Curb for Traffic Islands and Medial Strips as shown.

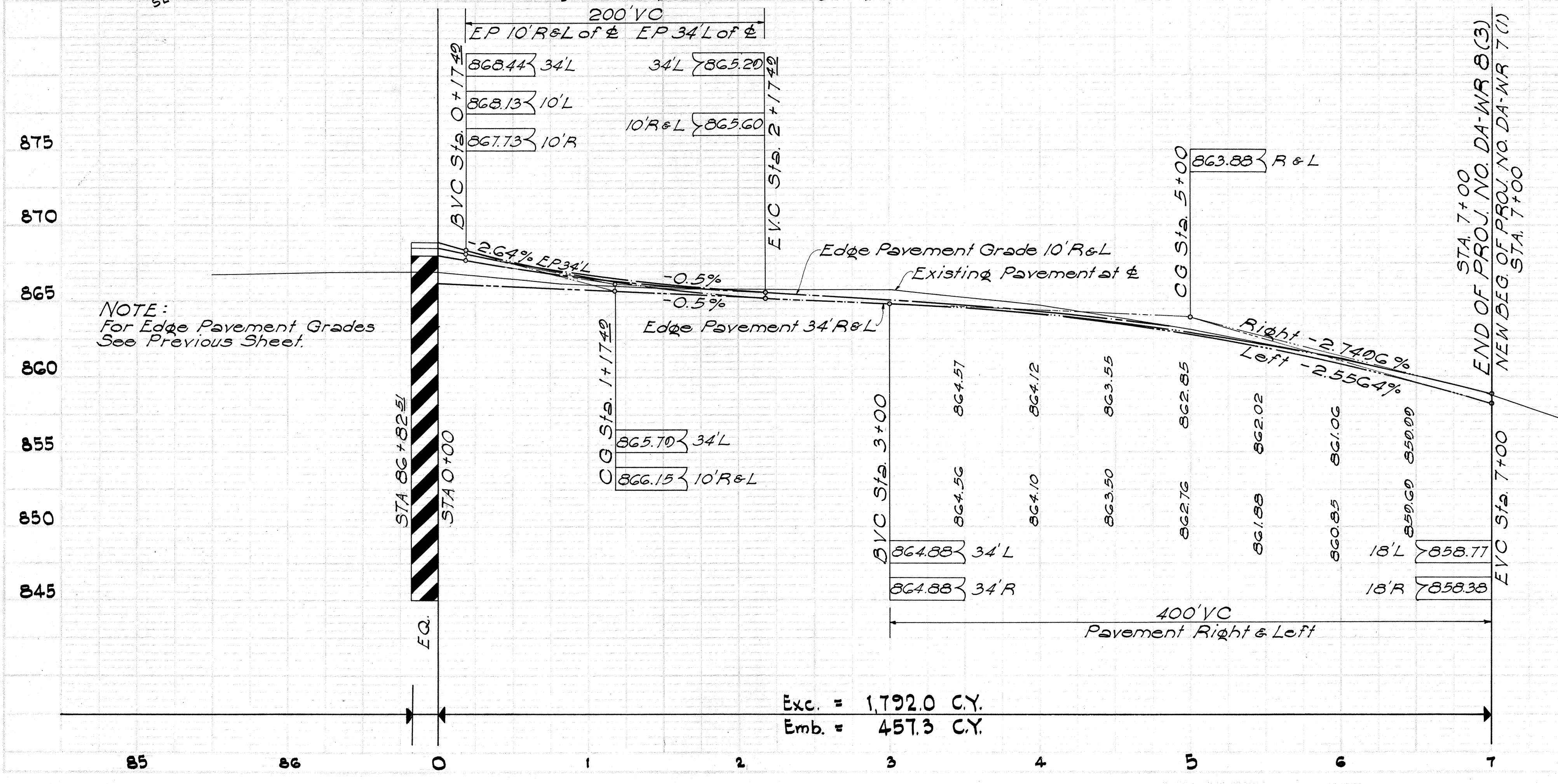
NOTE: For Paved Parking Area Detail See Sheet No. 5245.510



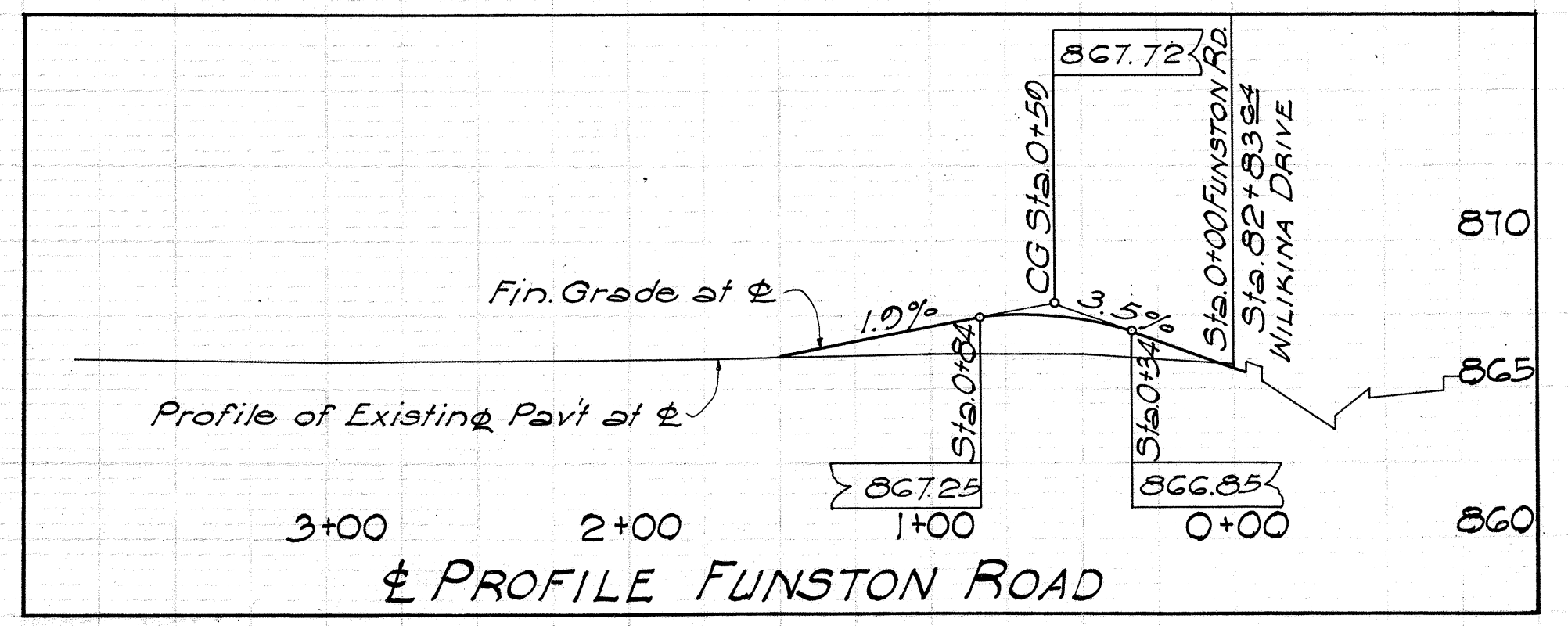
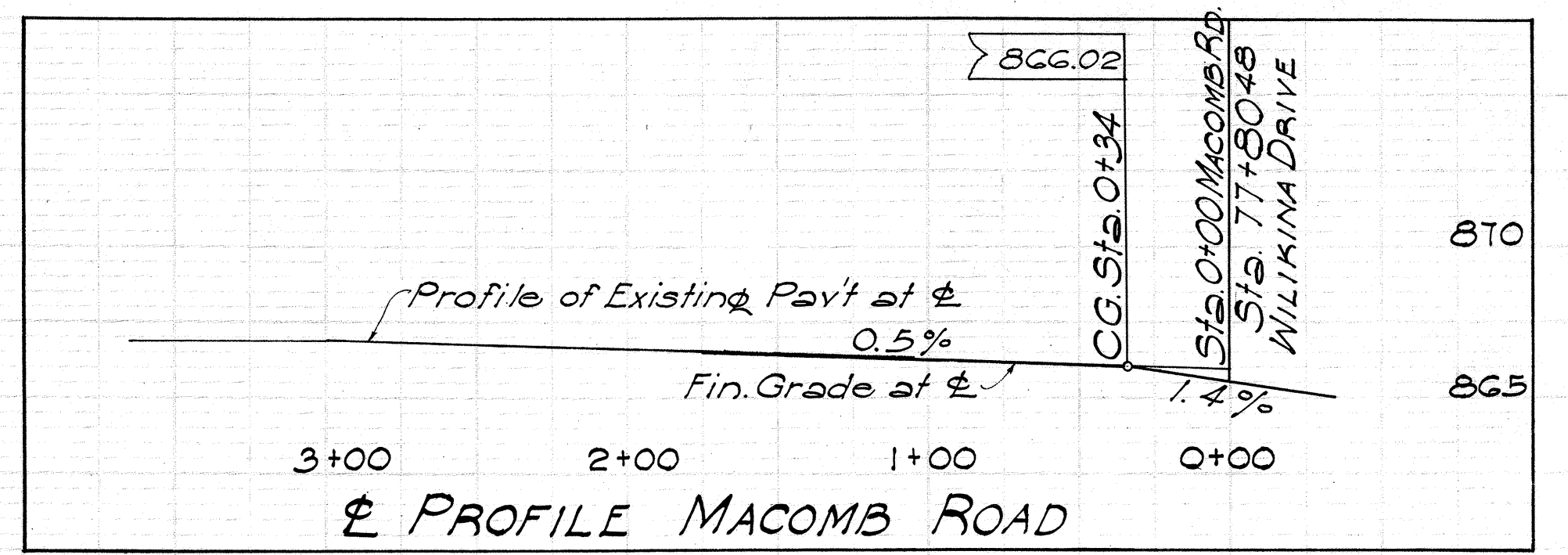
REVISED JAN. '48

PROFILE

NOTE: Azimuth Origin at Govt. Survey Triq Station "Waipio"



Exc. = 1,792.0 C.Y.
Emb. = 457.3 C.Y.



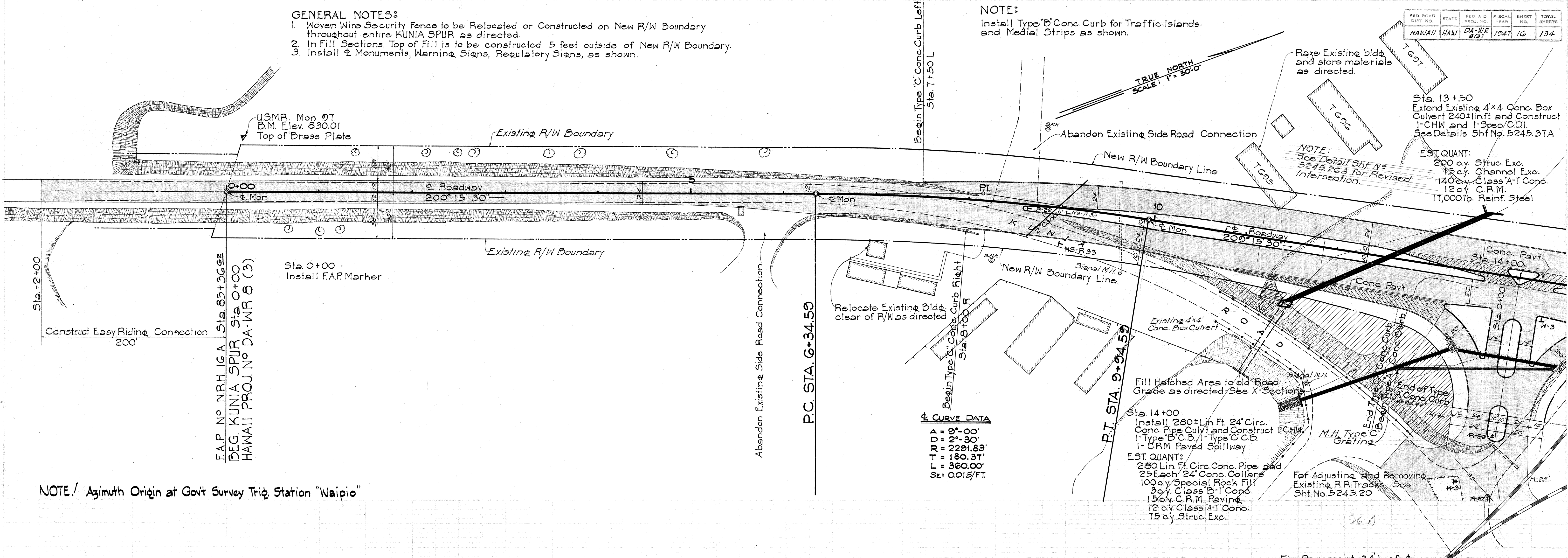
GENERAL NOTES:

1. Woven Wire Security Fence to be Relocated or Constructed on New R/W Boundary throughout entire KUNIA SPUR as directed.
2. In Fill Sections, Top of Fill is to be constructed 5 feet outside of New R/W Boundary.
3. Install ϕ Monuments, Warning Signs, Regulatory Signs, as shown.

NOTE:

Install Type "B" Conc. Curb for Traffic Islands and Medial Strips as shown.

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|--------------------|-------------|-----------|--------------|
| HAWAII | HAWAII | DA-WR 8(3) | 1947 | 16 | 134 |



F.A.P. No. NRH. IGA Sta. 85+36.82
 BEG. KUNIA SPUR STA. 0+00
 HAWAII PROJ. No. DA-WR 8(3)

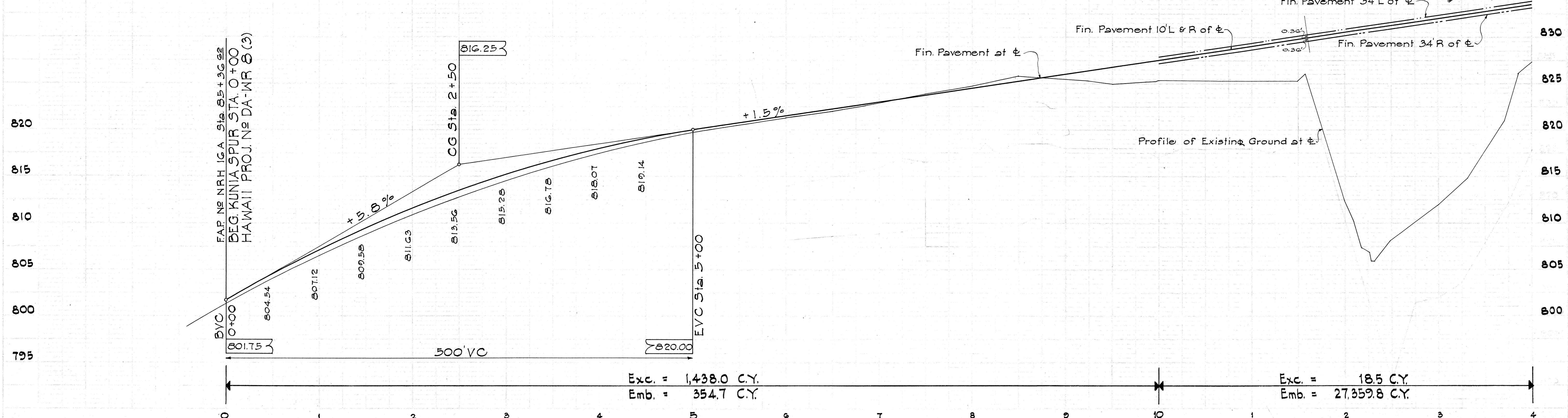
NOTE: Azimuth Origin at Govt Survey Triq. Station "Waipio"

Curve Data

| |
|-------------------|
| Δ = 9°-00' |
| D = 2°-30' |
| R = 2291.83' |
| T = 180.37' |
| L = 360.00' |
| Se = 0.015/FT. |

EST. QUANT:
 280 Lin. Ft. Conc. Pipe and 25 Each 24" Conc. Collars
 100 c.y. Special Rock Fill
 30 c.y. Class B-1 Conc.
 12 c.y. Class A-1 Conc.
 15 c.y. Struc. Exc.

For Adjusting and Removing Existing R.R. Tracks See Sht. No. 5245.20



Exc. = 1,438.0 C.Y.
 Emb. = 354.7 C.Y.

Exc. = 18.5 C.Y.
 Emb. = 27,859.8 C.Y.

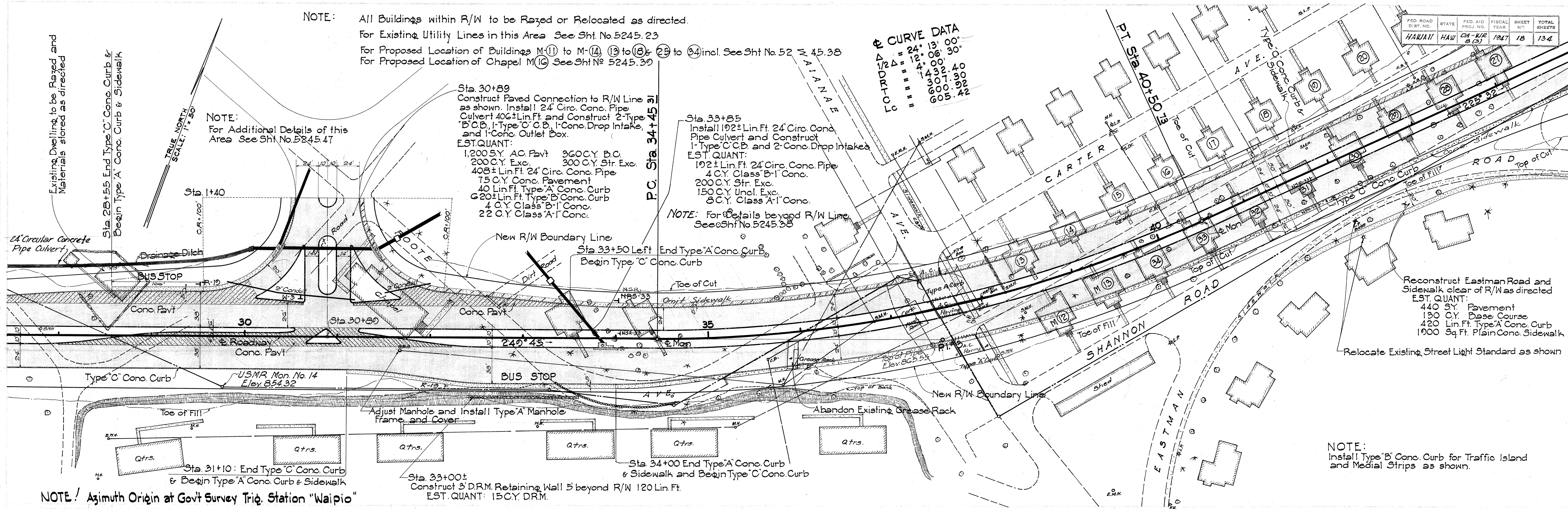
REVISED JAN. 48

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII | HAW | CA-112 | 1947 | 18 | 134 |

NOTE: All Buildings within R/W to be Razed or Relocated as directed.
 For Existing Utility Lines in this Area See Sht. No. 5245.23
 For Proposed Location of Buildings M(11) to M(14), (19) to (23) to (34) incl. See Sht. No. 5245.38
 For Proposed Location of Chapel M(10) See Sht. No. 5245.30

CURVE DATA

| | |
|----|-------------|
| PC | 24° 13' 00" |
| PT | 12° 06' 30" |
| EA | 4.00' |
| EB | 1432.40' |
| EC | 307.30' |
| EA | 600.92' |
| EB | 605.42' |



NOTE: For Additional Details of this Area See Sht. No. 5245.47

Sta 30+89
 Construct Paved Connection to R/W Line as shown. Install 24" Circ. Conc. Pipe Culvert 406± Lin. Ft. and Construct 2-Type "B" C.D., 1-Type "C" C.D., 1-Conc. Drop Intake, and 1-Conc. Outlet Box.
 EST. QUANT:
 1,200 S.Y. AC Pavt 360 C.Y. B.C.
 200 C.Y. Exc. 300 C.Y. Str. Exc.
 408± Lin. Ft. 24" Circ. Conc. Pipe
 75 C.Y. Conc. Pavement
 40 Lin. Ft. Type "A" Conc. Curb
 20± Lin. Ft. Type "B" Conc. Curb
 4 C.Y. Class "B-1" Conc.
 22 C.Y. Class "A-1" Conc.

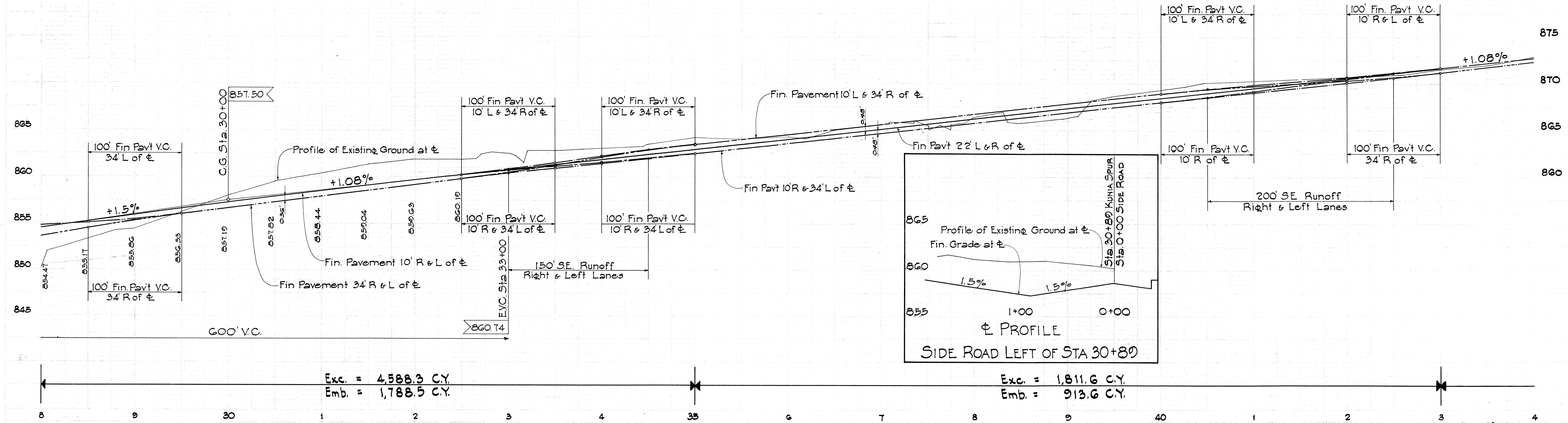
Sta 33+85
 Install 192± Lin. Ft. 24" Circ. Conc. Pipe Culvert and Construct 1-Type "C" C.D. and 2-Conc. Drop Intakes
 EST. QUANT:
 192± Lin. Ft. 24" Circ. Conc. Pipe
 4 C.Y. Class "B-1" Conc.
 200 C.Y. Str. Exc.
 150 C.Y. Uncl. Exc.
 8 C.Y. Class "A-1" Conc.

Reconstruct Eastman Road and Sidewalk clear of R/W as directed
 EST. QUANT:
 440 S.Y. Pavement
 150 C.Y. Base Course
 420 Lin. Ft. Type "A" Conc. Curb
 1000 Sq. Ft. Plain Conc. Sidewalk
 Relocate Existing Street Light Standard as shown

NOTE: Install Type "B" Conc. Curb for Traffic Island and Medial Strips as shown.

NOTE: Azimuth Origin at Govt Survey Triq. Station "Waipio"

REVISED JAN. 48

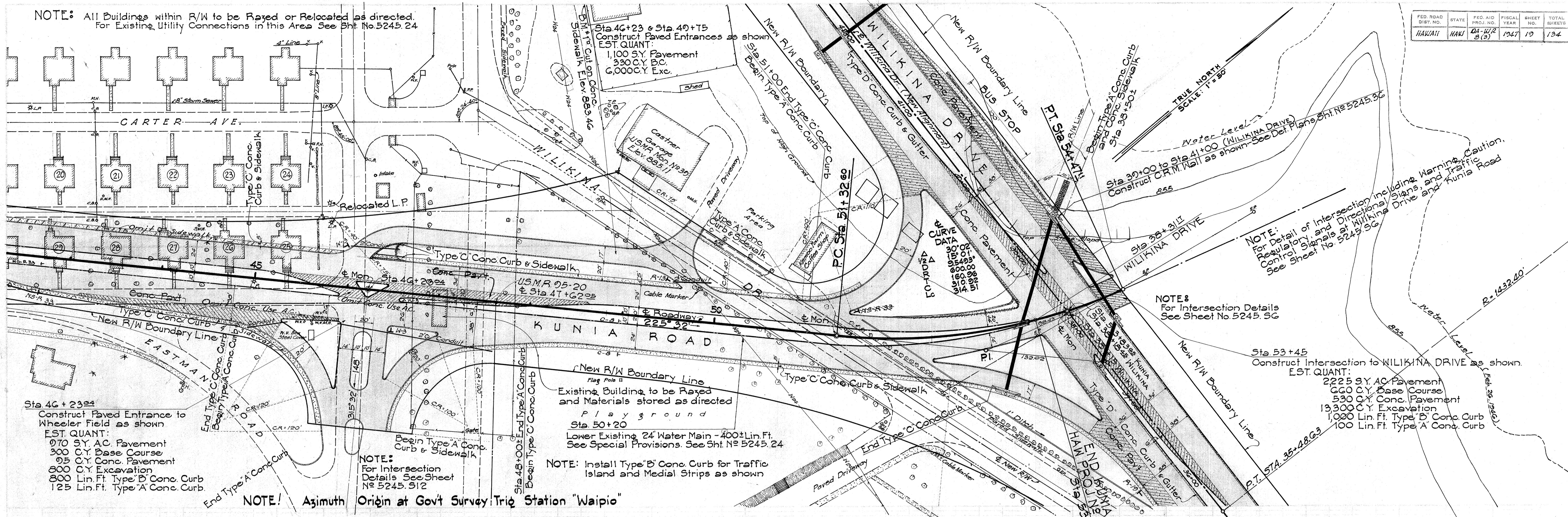


Exc. = 4,588.3 C.Y.
 Emb. = 1,788.5 C.Y.

Exc. = 1,811.6 C.Y.
 Emb. = 913.6 C.Y.

NOTE: All Buildings within R/W to be Razed or Relocated as directed.
For Existing Utility Connections in this Area See Sht. No. 5245.24

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|--------|--------------------|-------------|-----------|--------------|
| HAWAII | HAWAII | DA-W/R 8(3) | 1947 | 19 | 134 |



REVISED JAN. '48

